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**ANNUAL REPORT ON
THE 2007 GEOLOGY, TRENCHING, DIAMOND
DRILLING & I.P. PROGRAM
ON THE THUNDERCLOUD PROPERTY
ONTARIO**

By
G.Evans

N.T.S 052F/07
February 22,2008

SUMMARY

The Thundercloud property covers several significant gold occurrences in the Stormy Lake area . The property is favorably situated along the Stormy Lake belt which is an extension of the Manitou belt. In December 2006, Teck Cominco Limited entered into an option agreement with Glatz/Riives et al to earn a 100% interest in the property.

The 2007 exploration program consisted of an I.P. survey, surface detailed geological mapping (@1:2,000 scale) and sampling followed up with limited excavator trenching and NQ2 diamond drilling comprising 5 holes totaling 1459 metres, all concentrated in the central portion of the property. The results are generally very encouraging and a great deal of additional work is required on this early stage project.

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INTRODUCTION

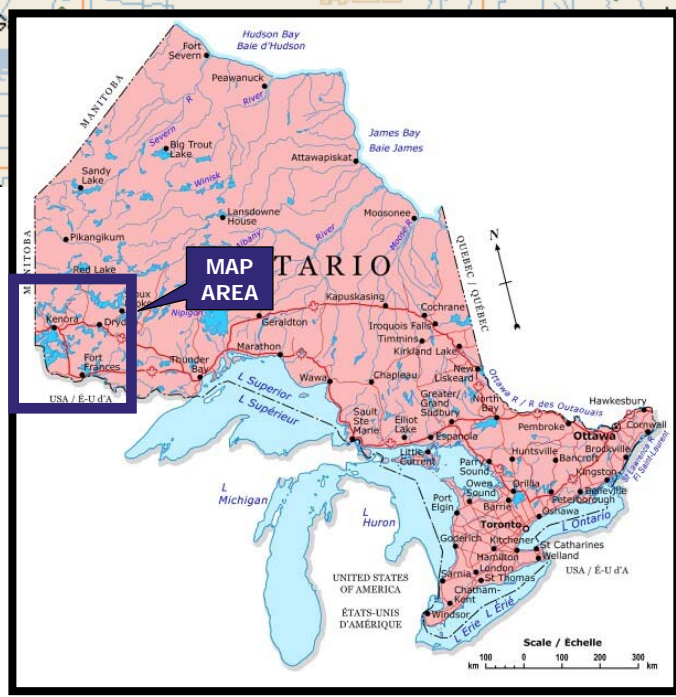
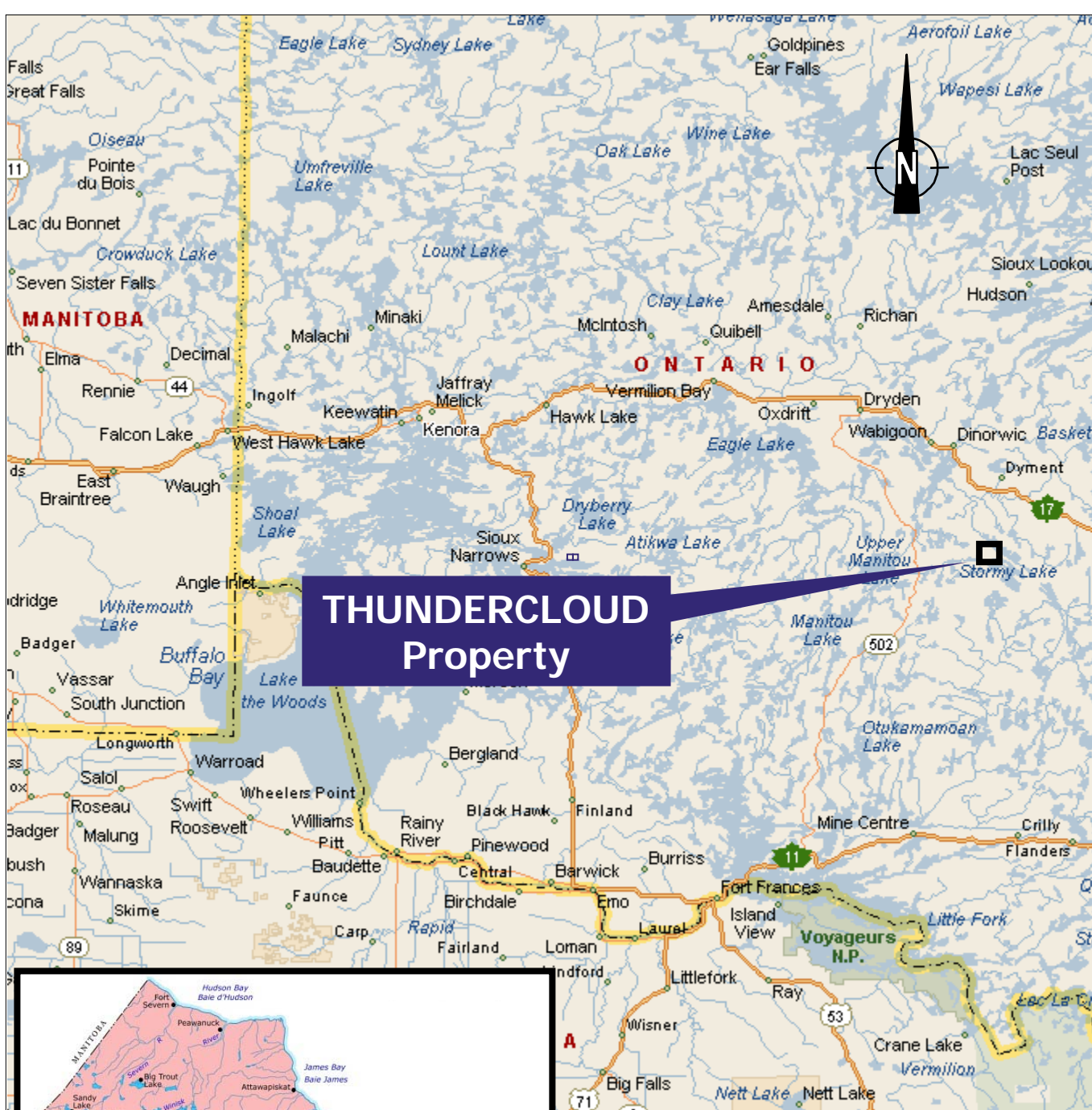
The Thundercloud property is located 50 Km's SE of Dryden Ontario in the Stormy Lake area (52F/07). The property is approximately 80 km's by highway and logging road from Dryden. Historically this area was very remote but recent logging roads and logging activity has opened up the area extensively.

The property was visited in the fall of 2006 and an option agreement was made with Glatz, Riives et al late in 2006. The 2007 exploration program consisted of; 26.3 km's of line cutting, with 17.6 km's of pole-dipole I.P. being completed, detailed surface geological mapping (2.4 square kilometers @1:2,000 scale) and rock sampling (233 samples collected), followed up with 510 linear meters of excavator trenching in 4 locations (116 samples collected), and NQ2 diamond drilling comprising 5 holes totaling 1,459 metres (817 samples collected). Logging in 2007 vastly improved access and outcrop exposure but also hampered exploration with grid destruction and restricting periods of access.

Gold mineralization is widespread on the property with several different styles of mineralization hosted in several lithologies. In general the property is at a very early stage of exploration and will require a large amount of additional work.

LOCATION AND ACCESS

The Thundercloud property is located 50 Km's SE of Dryden Ontario in the Stormy Lake area (52F/07). The property is centered on 49 degrees 23 minutes North and 92 degrees 27 minutes east just north of Thundercloud Lake (Figure 1). The property is approximately 80 km's by highway and logging road from Dryden. Historically this area was very remote but recent logging roads are opening up the area.



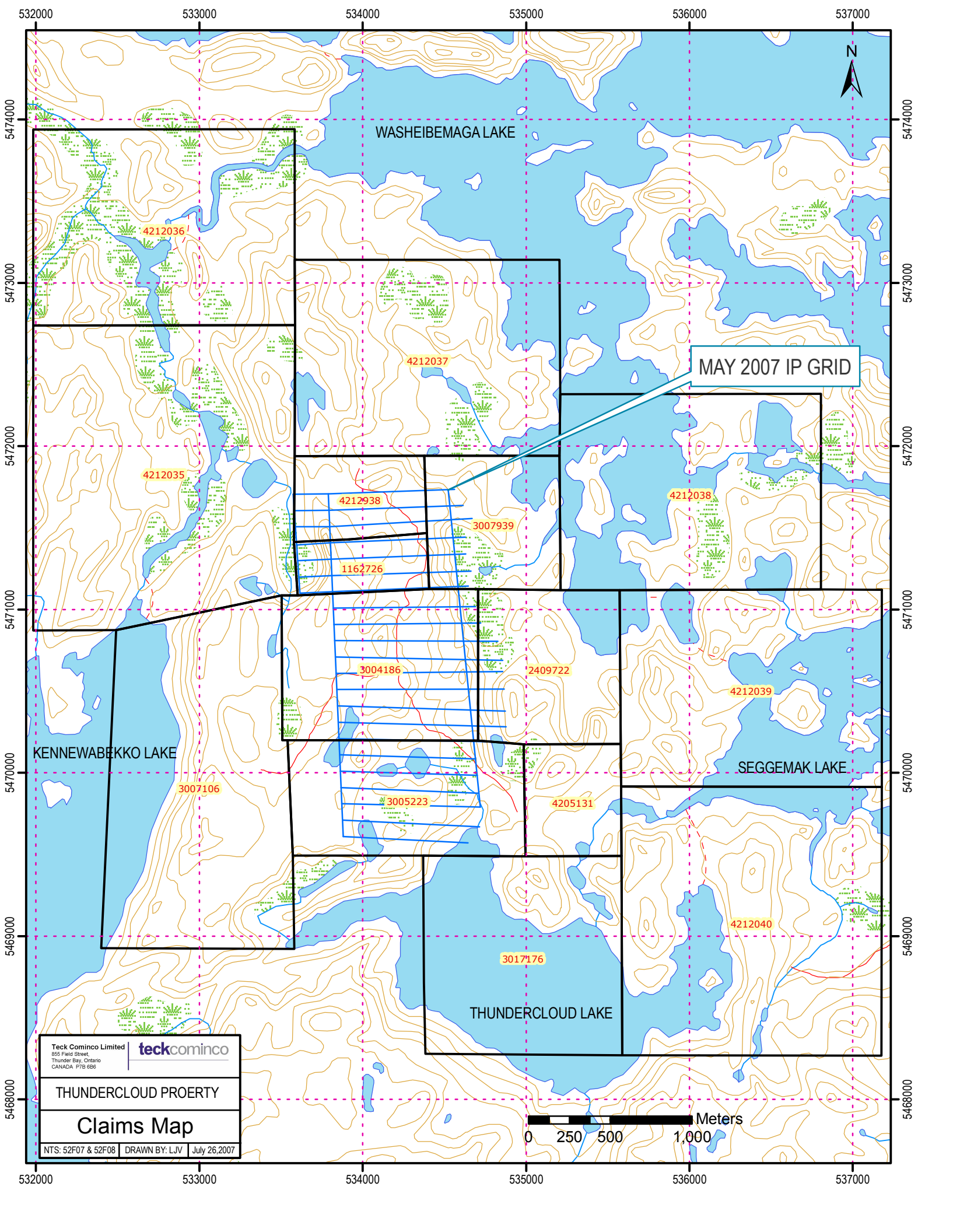
Teck Cominco Limited | **teckcominco**
 4000 Trans Canada Highway,
 Kamloops, British Columbia
 CANADA V1S 2A9

THUNDERCLOUD PROPERTY LOCATION MAP

The property can be accessed by driving east of Dryden along the Trans Canada Highway approximately 38 kms to the Snake Bay logging road. This is travelled south on for an additional 30 km's to another junction with the westerly trending Thundercloud spur road. This road is travelled for an additional 6 km's onto the central portion of the property. The property was extensively logged in 2007 and additional access roads cover much of the property providing good access and new exposure in logging cuts.

PROPERTY AND OPTION STATUS

The Thundercloud property (Figure 2) consists of 135 units in 15 claim blocks (2160 ha). All claims are presently in good standing to 2009 with a bank of credits for future use (Table 2). The property was optioned from Glatz, Riives et al dated December 31, 2006. Teck Cominco is presently earning a 100% interest in the property via a series of cash payments and work commitments subject to royalties and underlying agreements in the option. Teck Cominco Limited is the registered owner of the claims.



MAY 2007 IP GRID

Teck Cominco Limited **teckcominco**
850 Field Street,
Thunder Bay, Ontario
CANADA P7B 6B6

THUNDERCLOUD PROPERTY

Claims Map

NTS: 52F07 & 52F08 | DRAWN BY: LJV | July 26, 2007

0 250 500 1,000 Meters

TABLE 1**THUNDERCLOUD PROPERTY CLAIM STATUS**

Township/Area	Claim #	Recording Date	Claim Due Date	% option	Work Required	Total applied	Total Reserve	Claim Bank
BOYER LAKE	1162726	1998-Feb-06	2010-Feb-06	70%	\$800	\$8,000	\$7,360	\$0
BOYER LAKE	2409722	2006-Mar-15	2010-Mar-15	100%	\$2,000	\$4,000	\$0	\$0
BOYER LAKE	3004186	2003-Feb-17	2010-Feb-17	100%	\$2,398	\$12,002	\$2,598	\$0
BOYER LAKE	3005223	2003-Nov-17	2010-Nov-17	100%	\$3,199	\$16,001	\$4,215	\$0
BOYER LAKE	3007106	2004-Apr-19	2009-Apr-19	100%	\$5,165	\$18,835	\$0	\$0
BOYER LAKE	3007939	2006-Jun-05	2010-Jun-05	100%	\$1,600	\$3,200	\$697	\$0
BOYER LAKE	3017176	2004-Aug-26	2009-Aug-26	100%	\$3,600	\$10,800	\$0	\$0
BOYER LAKE	4205131	2005-Dec-16	2010-Dec-16	100%	\$1,600	\$4,800	\$0	\$0
BOYER LAKE	4212035	2007-Mar-28	2009-Mar-28	100%	\$6,400	\$0	\$101	\$0
BOYER LAKE	4212036	2007-Mar-28	2009-Mar-28	100%	\$4,800	\$0	\$0	\$0
BOYER LAKE	4212037	2007-Mar-28	2009-Mar-28	100%	\$4,800	\$0	\$0	\$0
BOYER LAKE	4212938	2006-Aug-22	2010-Aug-22	100%	\$800	\$1,600	\$865	\$0
KAWASHEGAMUK LAKE	4212038	2007-Mar-28	2009-Mar-28	100%	\$4,800	\$0	\$0	\$0
KAWASHEGAMUK LAKE	4212039	2007-Mar-28	2009-Mar-28	100%	\$4,800	\$0	\$0	\$0
KAWASHEGAMUK LAKE	4212040	2007-Mar-28	2009-Mar-28	100%	\$6,400	\$0	\$0	\$0

Current as of Feb/08 Prior to most of 2007 Work Filing

PREVIOUS WORK

Exploration has sporadically been conducted on the property since 1937 when the original "Pelham" showings were discovered. Historically the showings were quite remote and access was difficult. A brief chronological history is as follows:

1937-1939 Pelham area by S.S. Forneri, trenching and drilling of high grade sulphide rich trenches was conducted.

1941-1942 Wright Hargreaves conducted additional trenching with discovery during this time of Armstrong showings.

1963-1972 New Calumet Mines Ltd. Conducted exploration on the property.

1973-1974 D. Wahl conducted mapping and sampling of historic trenched areas.

1980-1981 Sulpetro conducted airborne surveys in the area and ground surveys targeting massive sulphides.

1985 Golde Washe Ltd. Conducted ground geophysics and mapping North of the property.

1985 Teck Exploration staked and examined the old Pelham showings.

1986 Esso optioned the Pelham area and mapped and drilled three holes on the Pelham area.

1985-1988 Noranda staked the southern portion of the Pelham, conducted ground I.P. surveys and mapped and sampled a number of the showings and drilled a total of 33 holes in the Pelham #3 area.

1997 Black Pearl resources conducted geological mapping and I.P. surveys.

1999 Goldeye Exploration conducted detailed mapping and sampling.

2003-2006 Glatz and Riives conducted prospecting and sampling programs.

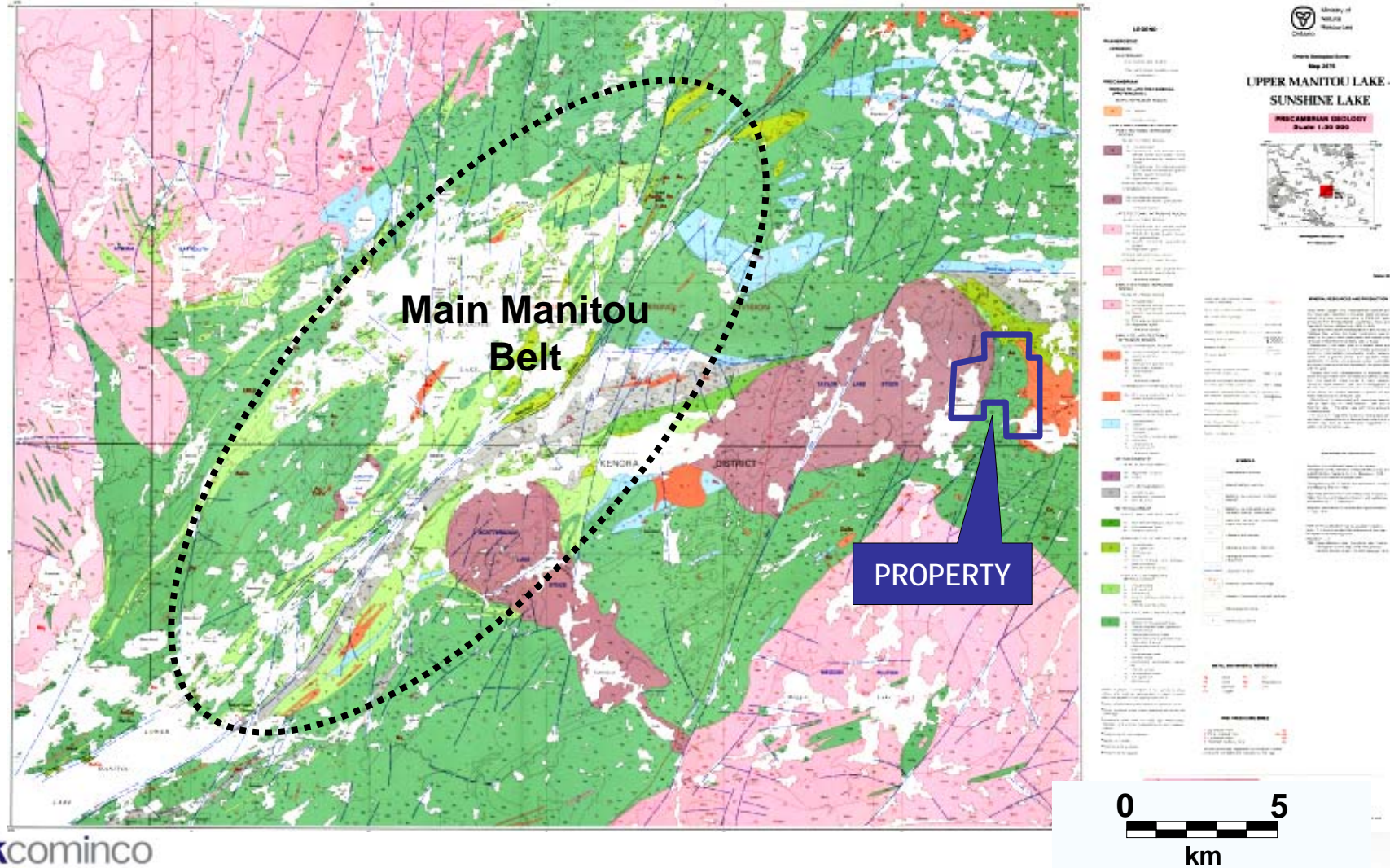
REGIONAL GEOLOGY

The Thundercloud property lies in the western portion of the Stormy Lake area (Figure 3). The Stormy Lake basin is an E-W trending basin which is an extension of the Manitou belt. This belt extends for a distance of 25 km's E-W and the basin is generally 1-2 km's wide within a wider Stormy Lake group greenstone belt. The belt has been regionally mapped with much of the work done by Blackburn and others of the OGS with a number of correlations done to the more extensively studied Manitou belt. The oldest rocks in the region are the extensive tholeiitic basalts of the Wapageisi volcanics and Boyer Lake formations which form a thick platformal pillowed basalt and fragmental sequence of back arc affinity (2732-2722 Ma). This is unconformably overlain by a late orogenic Stormy Basin (2703-2696 Ma). The Stormy basin consists of sediments and bimodal volcanics within a 1.5-2.0 Km thick sequence fault bounded along the northern boundary. This basin shows an irregular southern unconformable contact with the sequence generally having tops northwards to the Mosher bay-Washeimaga fault.

Intrusive rocks include the older Irene-Eltrut batholith to the south has a TTG affinity and restricts the Stormy Lake architecture against the Revell batholith to the NE. Younger late tectonic intrusive stocks including the Taylor, and Scattergood are of a monzonite to syenite composition and small stocks of QFP composition are present along the Manitou – Stormy belts.

Units are generally folded across the E-W axis with general shallow easterly plunges in what is believed to be a large synclinorium. Numerous older brittle-ductile fault systems generally follow and offset a number of the E-W strike of units and some cases form large deformation corridors. Latest faulting includes NE trending faults which generally display dextral offset such as the Taylor Lake fault.

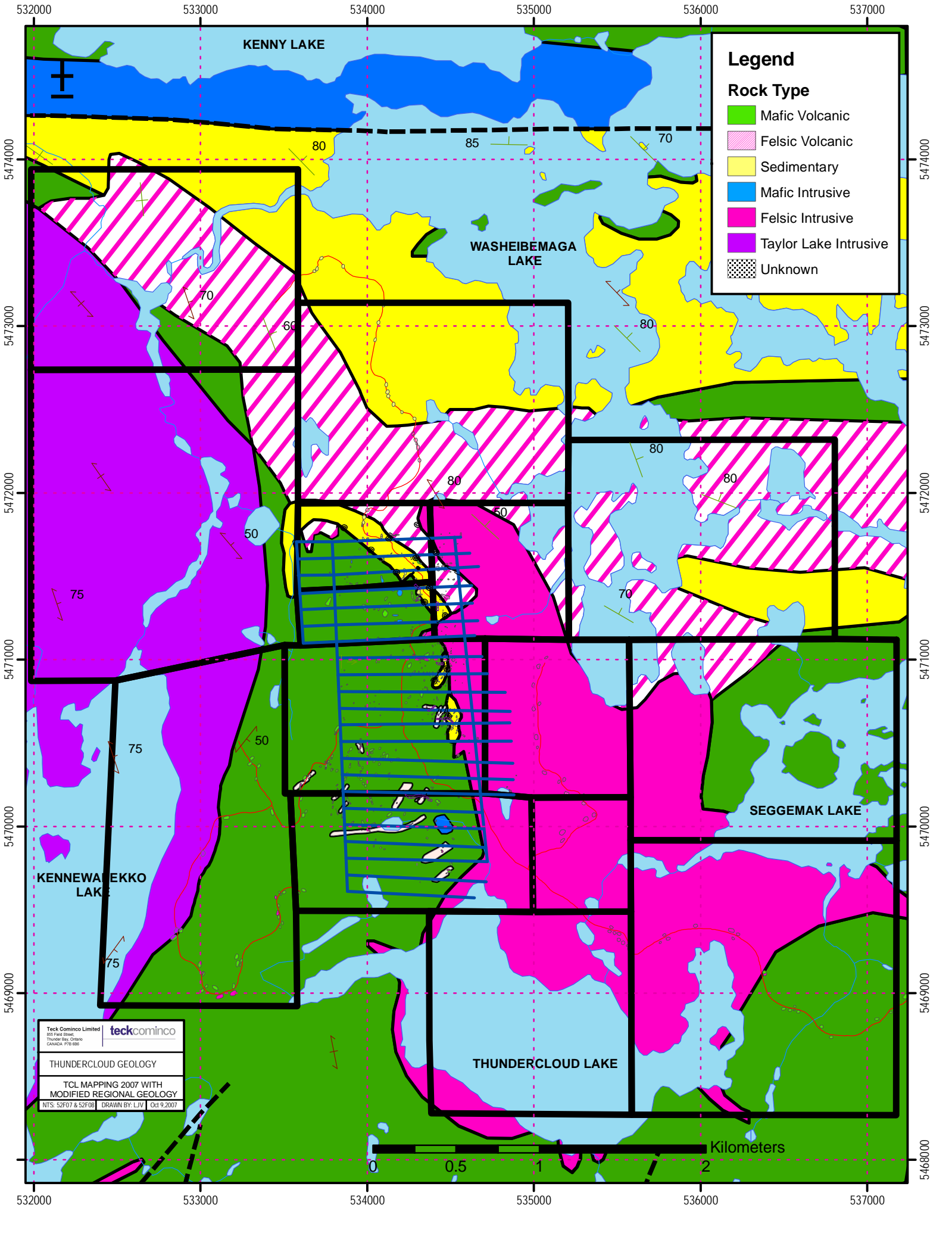
Thundercloud Regional Geology



PROPERTY GEOLOGY

The Thundercloud property covers a largely unexplored area in the western Stormy lake area with a several new gold discoveries in an area to the SE of the historic Pelham prospect that Teck previously owned. This area covers a portion of the Stormy Lake group which is an extension to the NE of the Manitou belt. The property covers an unusual, structurally complex, N-S corridor between the older Taylor lake stock to the west and a young felsic QFP Thundercloud porphyry to the east (Figure 4). The 2680 Mya thundercloud porphyry is possibly the causative intrusion for the mineralization and is similar to the numerous QFP dyke swarms that are intimately related to mineralization. Host rocks in the area consist of older tholeiitic basalts of the Wapageisi volcanics and conglomerates of Washeibemaga Lake group. These later units form an unconformity with young "Timiskaming like" shallow marine to lacustrine felsic and mafic pebble conglomerates, mudstones and more argillaceous units in the upper part of the sequence hosting portions of the mineralization in a N-S previously unrecognized trough/basin. The Thundercloud porphyry demonstrates an interesting high level depositional environment with extensive felsic flows and pyroclastic sequences developing over the carapace of the main Thundercloud stock.

In 2007 only the central portion of the property was worked on and limited exposure and subtle differences in lithologies makes interpretations difficult. In general the southern and western portions of the property are underlain by pillowed basalts and fragmental units of the Wapageisi volcanics. Pillows and lobes can commonly be seen in outcrop and rarely show any strong deformation. This sequence is unconformably overlain by a thick sequence of Washeibemaga Lake group that, in the northern portion of the grid area, forms a gently north plunging antiform grading upwards to the north. In the central grid area the eastern limb of this antiform has a N-S strike diachronous to the regional trend and hosts mineralization at the Armstrong showing area proximal to the Thundercloud porphyry. Rocks of the Washeibemaga Lake group in the grid area consist of



Teck Cominco Limited
 550 First Street
 Thunder Bay, Ontario
 CANADA P7B 6S9

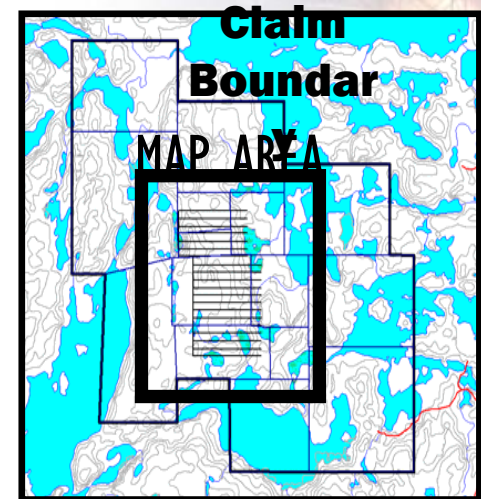
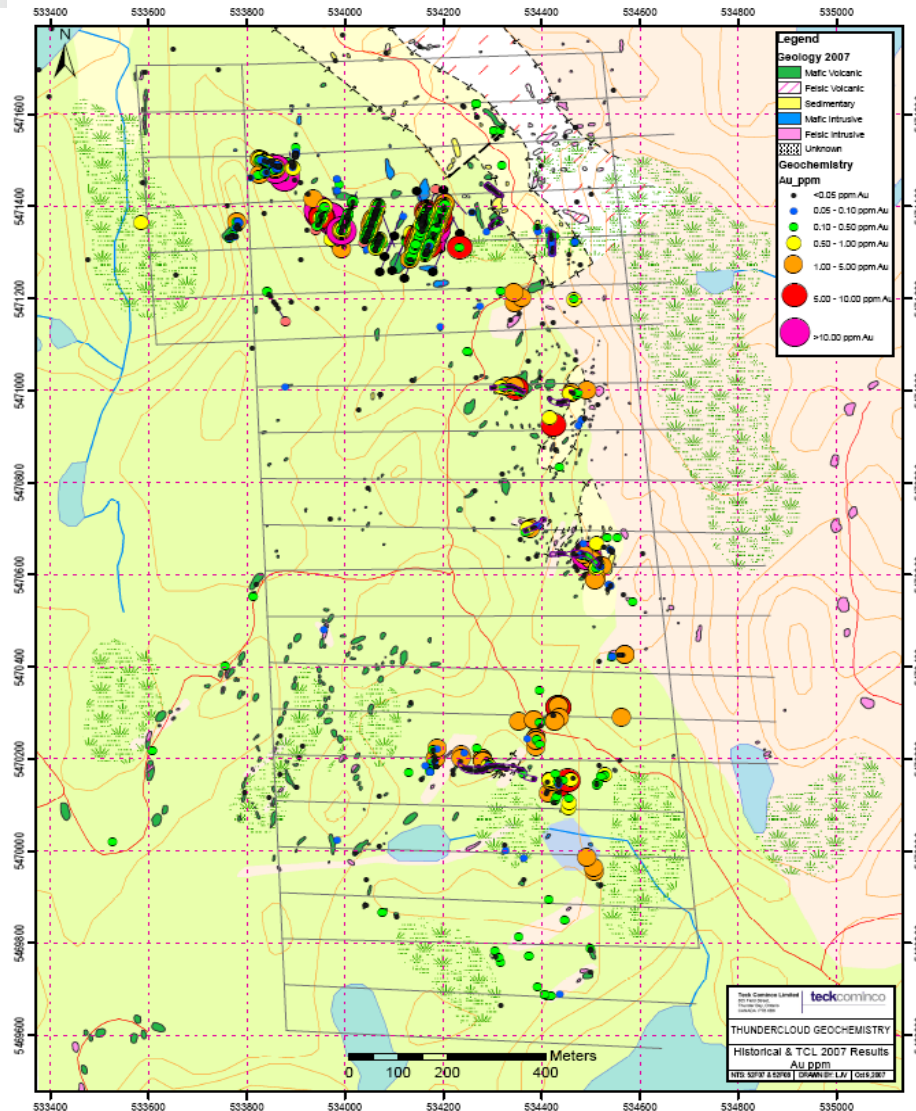
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THUNDERCLOUD GEOLOGY

TCL MAPPING 2007 WITH
 MODIFIED REGIONAL GEOLOGY

NTS: 52F07 & 52F08 | DRAWN BY: LJW | Oct 9, 2007

All Gold Values in Grid Area



polyolithic conglomerates with a gritty-sandy matrix (and often QFP pebble rich) interbedded with chloritic mudstones (chlorite probably derived from the underlying Wapageisi volcanics). Within the group there are interbedded QFP felsic flows commonly displaying flow banding and autobreccia textures, these flows are the extrusive equivalent of the Thundercloud porphyry stock. North of the grid area sediments grade upwards and become finer grained and more graphitic with reported iron formation at the north end of the property. The western side of the property is bounded by the Taylor Lake stock which is a large monzonite- quartz syenite body dated at 2693Ma. This large stock is not seen in the 2007 grid area but potassic altered dykes can be seen in the SW corner of the property within a hornfelsed aureole of the stock.

The Thundercloud porphyry is generally a massive felsic QFP stock exposed in the central and eastern portion of the property, and as numerous N, NE and NW trending dykes within the grid area, related to structures and mineralization. The relationship with mineralization is complex with some dykes and QFP flows displaying alteration while other dykes clearly postdate and crosscut mineralization. The Thundercloud porphyry is believed to be the causative intrusive and has a close spatial, and temporal relationship to gold mineralization. Poorly defined gabbros and mafic intrusions have been located in the Pelham area and several other poorly defined locations. These units are typically pyroxene or hornblende bearing and dykes have been seen crosscutting the Washeibemaga Lake sediments so these are not mafic intrusives related to the older Wapageisi volcanics. These rocks often respond to hand magnets and are of a late intrusive affinity but themselves can be mineralized in areas such as Pelham.

Gold mineralization in general consists of moderate to strong pervasive biotite alteration with 5-10% disseminated and fracture controlled pyrite +/- pyrrhotite and occasional trace amounts of chalcopyrite and arsenopyrite. Hostrocks for mineralization include older Wapageisi volcanics , as well as

conglomerates and chloritic mudstones of the Washeibemaga Lake sediments as well as late mafic intrusive rocks. In general, mineralization is associated with later QFP dykes. Generally fabric is only weakly developed but higher grade zones do appear proximal to late QFP dykes and some N-S and NE trending shears do develop locally. Generally the QFP dykes are un-mineralized and postdate mineralization as seen with fragments of mineralization within dykes but occasional sericite, pyrite +/- green mica dykes contain 100-2000 ppb values. This relationship of mineralization which appears post felsic volcanic flows and pre late QFP dykes brackets the gold event temporally and spatially to the Thundercloud porphyry.

Trenching and drilling has demonstrated alteration is much more complex than generally recognized on surface with areas such as Pelham demonstrating multiple phases of complex alteration and in some cases hydrothermal brecciation. Commonly associated with pervasive biotite alteration, is a more subtle calc silicate alteration with the presence of tremolite often suspected and a secondary chlorite alteration often superimposed on biotite alteration. Occasionally silicification can be seen generally in higher grade gold areas again superimposed on earlier biotite alteration as diffuse pervasive zones. QFP dykes are occasionally sericite altered with rare green micas present. Late stage quartz carbonate and very rare quartz veinlets have been seen in drilling but widespread carbonate alteration is quite rare. A very common part of the alteration systems is widespread sulphidation dominated by pyrite with lesser pyrrhotite and occurs as disseminations, fracture fills and clast replacement in conglomerates. These alteration systems and relationships will require additional detailed work including some petrography in 2008.

Correlation matrices were generated for the elements on surface work and drilling and generally show the following correlations with gold. A correlation coefficient of greater than 0.50 is quite relevant and includes Ag, As, S, Se, Te and W. Bi and Mo also show a positive Au relationship but only in select areas while

there is a weak positive K relationship and a negative Na correlation but this requires standardizing to the protolith.

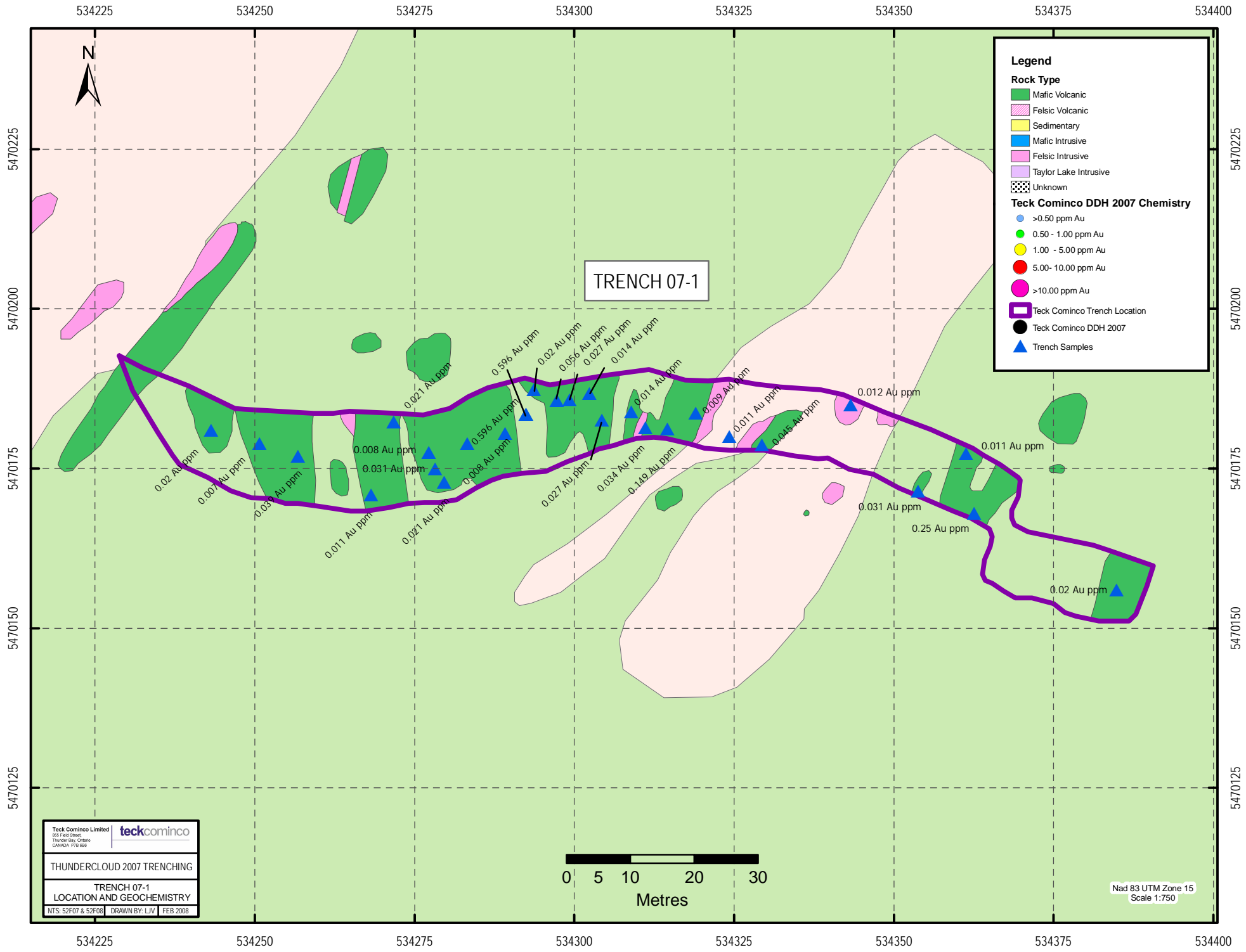
2007 Trenching Program

During August 2nd to August 17th a short trenching program was conducted but was cut short by the return to active logging in the area. Four areas were trenched by D&D contracting of Dryden for a total of 510 lineal meters of trenching in eight select portions. Detailed mapping and channel sampling could not be completed due to time limitations but preliminary mapping and chip sampling was conducted to get an initial evaluation completed. A total of 116 chip samples were collected from the trenches.

Trenching was conducted in areas of overburden to expose geology over I.P. chargeability targets near outcrops with gold mineralization. Briefly the trenches in order from south to north exposed the following:

Trench : 01

This 160m long E-W trending trench exposed an I.P. chargeability anomaly between two test pits put in by Alex Glatz and Joe Riives that displayed widespread biotite +/- tremolite alteration in sheared mafic volcanics. The trench exposed dominantly mafic volcanics with a 30 meter wide QFP dyke in the central portion of the trench. This dyke and parallel structures trend NE with steep SW dips and display widespread weak to moderate biotite +/- calc-silicate alteration with typically 3-5% disseminated pyrite +/- po, cpy and locally, in stronger altered structures, 10-15% disseminated sulphides with heavier biotite with minor carbonate and silicification present. The best value from chip sampling in the west central portion was 0.156 g/t Au /19.5m's (81.0-100.5m's from east end of trench) which was disappointing as alteration and sulphide content was comparable to the Glatz trenches.



TRENCH 07-1

Legend

Rock Type

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Taylor Lake Intrusive
- Unknown

Teck Cominco DDH 2007 Chemistry

- >0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00- 10.00 ppm Au
- >10.00 ppm Au
- Teck Cominco Trench Location
- Teck Cominco DDH 2007
- Trench Samples

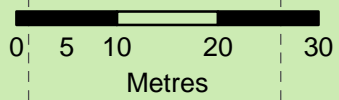
Teck Cominco Limited
 501 Park Street
 Thunder Bay, Ontario
 CANADA P7B 6B6

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THUNDERCLOUD 2007 TRENCHING

TRENCH 07-1
 LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 | DRAWN BY: LIV | FEB 2008



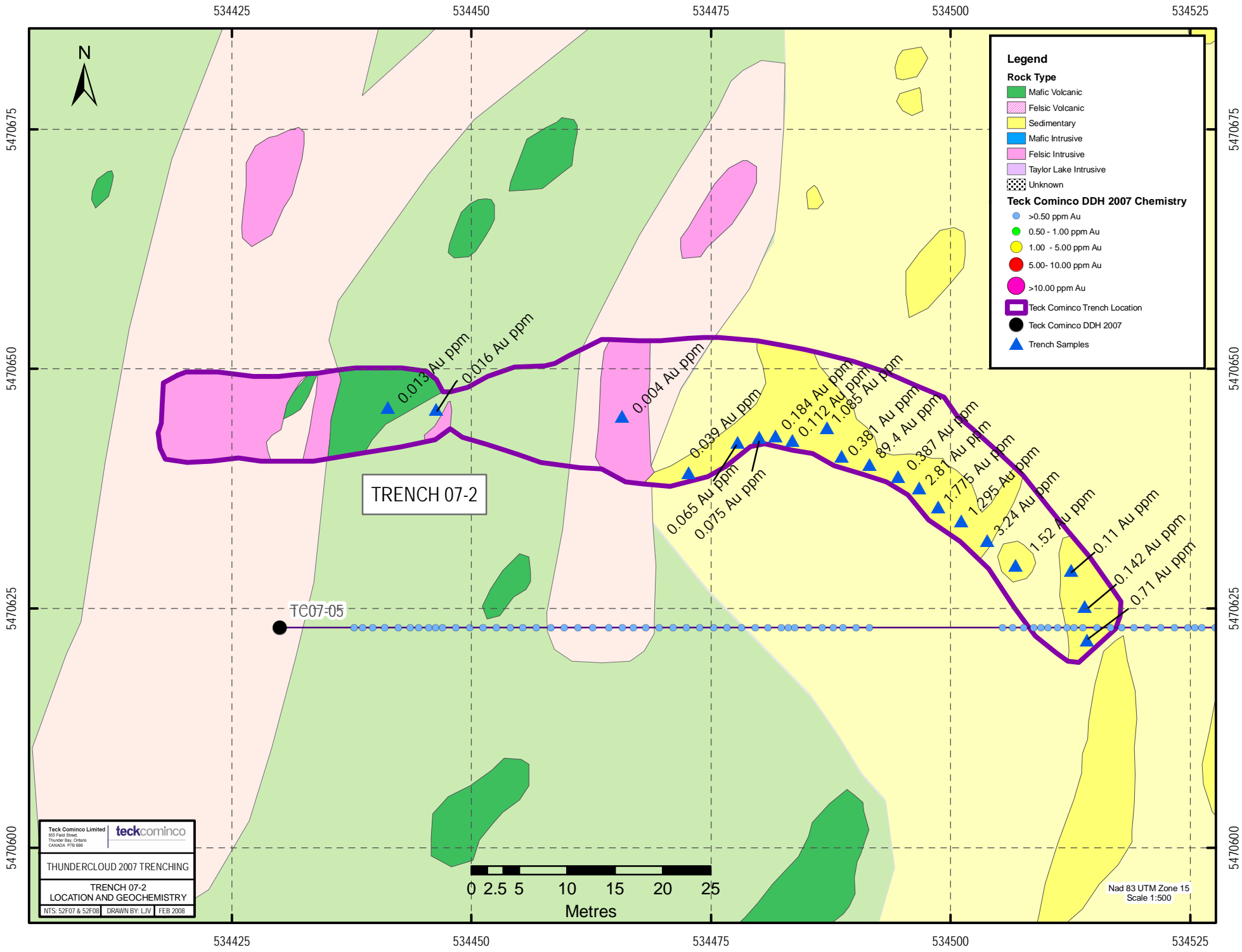
Nad 83 UTM Zone 15
 Scale 1:750

Trench : 02 & 2A

This trench was broken into two sections because of some steeper topography. These two trench portions tested from the near surface I.P. anomaly at the western end over the unconformity and connected to mineralized conglomerates near the Armstrong showing over an E-W distance of 130 meters. Trench 2 was arcuate in shape and extended NW from the moderately biotite altered conglomerate exposure and further west to expose the unconformity with mafic volcanics to the west. The contact area of the trench is strongly influenced by large late stage QFP dykes that were also encountered in hole TC-07-05. The interval of conglomerates exposed were pervasively moderately to strongly biotite altered with minor calc-silicate alteration and contain 5-40% disseminated pyrite, with minor silicification and sericite alteration. Trench#2 returned values of 8.02g Au / 39.0 m's uncut which includes a smaller interval grading 89.4 g Au & 1985 g Ag / 3.0 m's. Interestingly enough this high grade portion was not within the strongest alteration seen in the trench. The mafic volcanics at the west of the trench were unaltered with no significant Au values. Trench 2A at the west end encountered QFP dykes at the eastern end and trenched out into sheared weakly biotite altered mafic volcanics with 3-10% disseminated pyrite. The west end of this trench returned 0.246 g Au over 16.0 m's. Hole TC-07-05 tested trench #2 at depth from west to east.

Trench : 03 & 3A

This trench was broken into two sections again because of some steeper exposed topography. These two trench portions tested the near surface I.P. chargeability anomaly over the unconformity between the mafic volcanics on the west and conglomerates to the east over a combined E-W distance of 180 meters. The westernmost trench, labeled 03, exposed pervasive, weakly biotite altered, mafic volcanics (pillows occasionally seen) with generally low (2-3%) disseminated pyrite. An interval in this trench returned a surprisingly high gold value of 0.785 g Au over 52.0 m's. The portion of the trench at the east end, designated #3A



TRENCH 07-2

TC07-05

0 2.5 5 10 15 20 25

Metres

Nad 83 UTM Zone 15
Scale 1:500

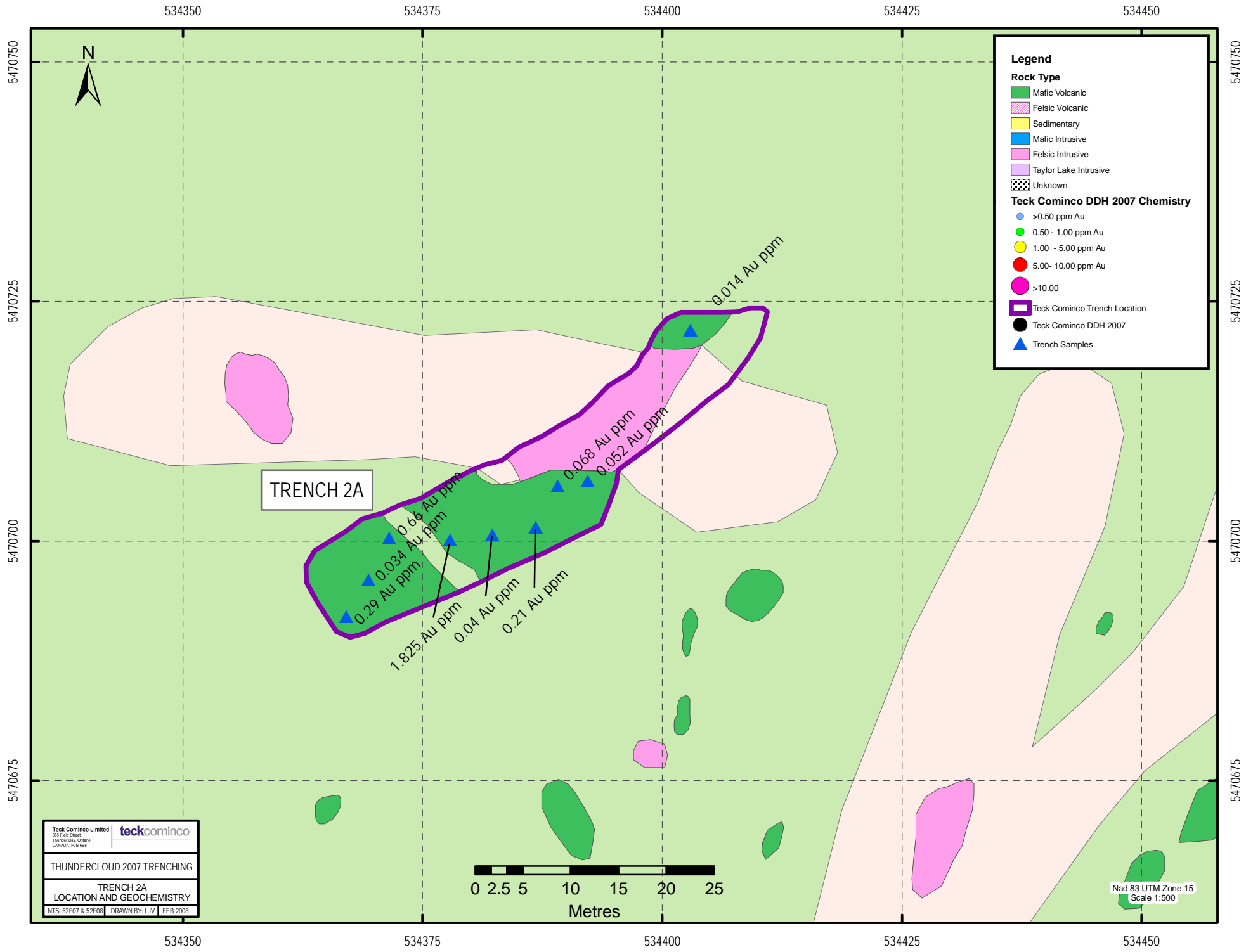
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261 Park Street
Thunder Bay, Ontario
CANADA P7B 6B6

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THUNDERCLOUD 2007 TRENCHING

TRENCH 07-2
LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 | DRAWN BY: LIV | FEB 2008



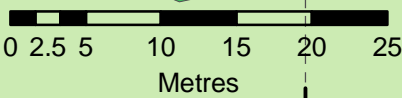
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 201 North Street
 Thunder Bay, Ontario
 CANADA P7B 6R6

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THUNDERCLOUD 2007 TRENCHING

TRENCH 2A
 LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 DRAWN BY: LJV FEB 2008



Nad 83 UTM Zone 15
 Scale 1:500

534300

534325

534350

534375

5471075

5471075

5471050

5471050

5471025

5471025

5471000

5471000

5470975

5470975

5470950

5470950

Legend

Rock Type

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Taylor Lake Intrusive
- Unknown

Structure

Structure Type

- Chlorite Vein
- Bedding
- Foliation
- Shear
- Joint
- Clast Orientation

Teck Cominco DDH 2007 Chemistry

- >0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00 - 10.00 ppm Au
- >10.00 ppm Au
- Trench Samples
- Teck Cominco Trench Location
- Teck Cominco DDH 2007



TC07-03

0.038 Au ppm

0.03 Au ppm

0.001 Au ppm

0.02 Au ppm

0.521 Au ppm

0.115 Au ppm

2.94 Au ppm

0.02 Au ppm

5.11 Au ppm

0.015 Au ppm

0.007 Au ppm

0.044 Au ppm

0.257 Au ppm

0.431 Au ppm

1.395 Au ppm

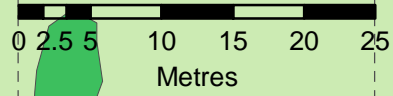
TRENCH 07-3

Teck Cominco Limited **teckcominco**
 855 Park Street
 Thunder Bay, Ontario
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THUNDERCLOUD 2007 TRENCHING

TRENCH 07-3
 LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 | DRAWN BY: LJV | FEB 2008



Nad 83 UTM Zone 15
Scale 1:500

534400

534425

534450

534475



5471025

5471025

5471000

5471000

5470975

5470975

5470950

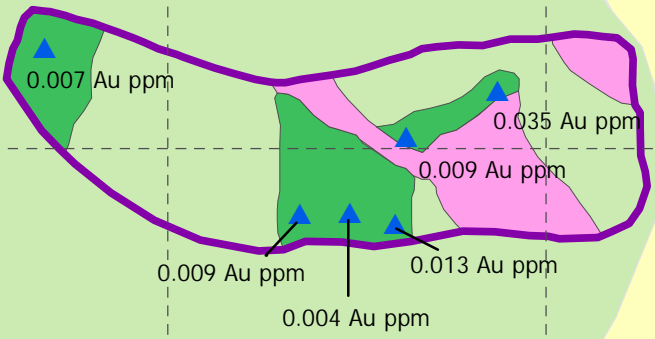
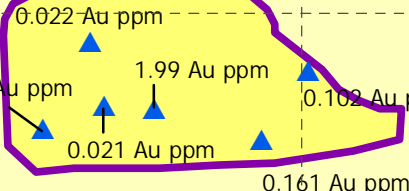
5470950

5470925

5470925

TC07-03

TRENCH 3A



Legend

Rock Type

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Taylor Lake Intrusive
- Unknown

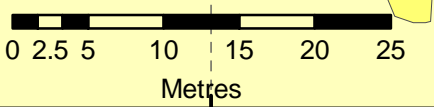
Structure

Structure Type

- Bedding
- Foliation
- Shear
- Joint
- Clast Orientation

Teck Cominco DDH 2007 Chemistry

- >0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00- 10.00 ppm Au
- >10.00 ppm Au
- Teck Cominco Trench Location
- Teck Cominco DDH 2007
- Trench Samples



Nad 83 UTM Zone 15
Scale 1:500

Teck Cominco Limited
855 First Street
Thunder Bay, Ontario
CANADA P7B 8B8

teckcominco

THUNDERCLOUD 2007 TRENCHING

TRENCH 3A
LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 | DRAWN BY: LJV | FEB 2008

534400

534425

534450

534475

exposes moderate biotite altered +/- silicified conglomerates with 3-15% disseminated pyrite. Chip sampling results returned an average of 0.469 g Au over 24 meters in this trench. Hole TC-07-03 was designed to undercut this #3 trench area, see drill section for details.

Trench 04, 04A, 04B

Again these trench sections were broken into three sections because of some steeper exposed topography, swampy areas and logging roads. These trench segments helped to expose covered sections in an area that had mineralized conglomerates exposed near the unconformity with mafic volcanics. The trenches cover portions of a 150 meter N-S segment underlain by a moderate to strong I.P. chargeability anomaly. All three trench segments encountered moderate to strong biotite, calc silicate alteration with 5-15% disseminated pyrite and pyrrhotite in both conglomerates and mafic volcanics. Chip sampling returned generally only low gold values in this alteration and mineralization with maximum values of 0.252 g Au in TR 04, 0.157 g Au in TR 04B, and 0.049 g Au in TR 04C. These trenches were tested with a scissor pattern in two holes , namely TC-07-01 & 02. Details of this drilling can be referred to in the drill section.

Results from the trench program include:

Trench#1 0.156gAu / 19.5m's

Trench#2 8.02g Au / 39.0 m's uncut (includes 89.4 g Au & 1985 g Ag / 3.0 m's)

Trench#2A 0.246g Au / 16.0 m's

Trench#3 0.785g Au / 52.0 m's

Trench#3A 0.469 g Au / 24.0 m's

Detailed rock descriptions and assays are located in APPENDIX I.

534350

534375

534400

534425

5471375

5471350

5471325

5471300

5471275

5471375

5471350

5471325

5471300

5471275

Legend

Rock Type

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Taylor Lake Intrusive
- Unknown

Structure_2007

Structure Type

- Bedding
- Foliation
- Shear
- Strain
- Joint
- Clast Orientation

Teck Cominco DDH 2007 Chemistry

- >0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00- 10.00 ppm Au
- >10.00 ppm Au

Teck Cominco Trench Location

Teck Cominco DDH 2007

Trench Samples



TRENCH 4

0.024 Au ppm ▲

0.115 Au ppm ▲

0.191 Au ppm ▲

0.017 Au ppm ▲

0.067 Au ppm ▲

0.057 Au ppm ▲

0.252 Au ppm ▲

0.007 Au ppm ▲

0.088 Au ppm ▲

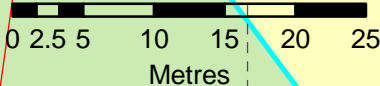
0.007 Au ppm ▲

0.068 Au ppm ▲

90

47

TC07-01



Teck Cominco Limited
855 Field Street
Thunder Bay, Ontario
CANADA P7B 6B6

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THUNDERCLOUD 2007 TRENCHING

TRENCH 4
LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 DRAWN BY: LJV FEB 11, 2008

Nad 83 UTM Zone 15
Scale: 1:500

534350

534375

534400

534425

534275

534300

534325

534350



5471450
5471425
5471400
5471375
5471350
5471325

5471450
5471425
5471400
5471375
5471350
5471325

TRENCH 07-4C

TC07-02

TRENCH 07-4B

Legend

Rock Type

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Taylor Lake Intrusive
- Unknown

Structure

- Bedding
- Foliation
- Shear
- Joint
- Clast Orientation

Teck Cominco DDH 2007 Chemistry

- >0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00 - 10.00 ppm Au
- >10.00 ppm Au
- Teck Cominco Trench Location
- Trench Samples
- Teck Cominco DDH 2007

0.015 Au ppm

0.049 Au ppm

0.017 Au ppm

0.025 Au ppm

0.04 Au ppm

0.022 Au ppm

0.035 Au ppm

0.016 Au ppm

0.157 Au ppm

0.036 Au ppm

0.046 Au ppm

0.018 Au ppm

0.039 Au ppm

90

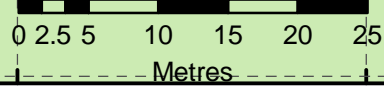
Teck Cominco Limited
501 First Street,
Thunder Bay, Ontario
CANADA, P7B 0S9

teckcominco

THUNDERCLOUD 2007 TRENCHING

TRENCH 07-4C & 07-4B
LOCATION AND GEOCHEMISTRY

NTS: 52F07 & 52F08 | DRAWN BY: LJV | FEB 11, 2008



Nad 83 UTM Zone 15
Scale: 1:500

2007 DIAMOND DRILL PROGRAM

The 2007 program on the Thundercloud property consisted of diamond drilling five holes NQ2 (TC-07-01, 02, 03, 04, 05) totaling 1,459 metres (Map 13) Drilling was completed between October 26, 2007 and December 13, 2007 by G&O Drilling Services of Hay River Alberta. Drilling was very slow and due to lack of performance and safety issues the drill program was prematurely terminated by TCL in December.

Initial drilling in 2007 was based on a combination of targets outlined by surface work and supported by chargeability anomalies generated by the I.P. survey. This drilling was very preliminary in nature to better define geology in covered areas and determine patterns to gold mineralization. Core was continuously sawn in half with almost all intervals (817 samples) submitted for analysis to determine the gold distribution. Drill core was mostly logged by Allan Turner and Michelle Campbell. Diamond drill logs are appended (Appendix II) and drill data is presented in cross-section (Maps 16 to 20) with drill hole traces shown in Map 13. All drill core is stored at Teck Cominco's drill core logging and storage compound near the Snake Bay junction east of Dryden.

A total of 817 samples of halved core (using a rock saw) were shipped to ALS Labs Thunder Bay prep lab for analysis of Au, and an ICPMS 61 metals suite (Appendix IV). Analytical methods are shown in the appended assay certificates. A total of 17 blanks were inserted systematically into the sample stream as part of quality control along with 13 standards. All blanks returned below detection levels (<5 ppb for Au) as expected for these samples. Complete analytical results for this program were received from ALS by February, 2008.

TABLE 2
2007 DRILL HOLE SUMMARY

Drill Hole	Easting	Northing	Az.	Dip	Depth (m)	Results
TC07-01	534370	5471265	360	-45	264.26	This hole tested across the unconformity and the eastern side of the I.P. anomaly. This hole displays widespread alteration and anomalous gold mineralization. Best results in hole 13.25 m's @ 1.28 g Au
TC07-02	534312	5471435	190	-45	203.3	This hole tested a stronger portion of the I.P. anomaly towards the Pelham #3 zone. Widespread alteration and mineralization was encountered in much of the hole including 77.0 m's @ 0.955 g Au.
TC07-03	534274	5471015	90	-45	349.6	no significant mineralization on this hole which tested below trench #03 across a strong near surface I.P. anomaly.
TC07-04	534281	5470903	90	-45	331.31	This hole tested a portion of the I.P. anomaly 110 m's south of hole #03. Weak but anomalous gold was encountered.
TC07-05	534430	5470623	90	-45	311.12	This hole tested under the trench #2 area which returned high gold values. This hole encountered a wide interval of QFP dyke below the trench area with generally low gold values but encountered anomalous gold values in sediments to the east.
				Total	1459.6	
					M's	

RESULTS

Drill testing was very preliminary by nature and tested several targets for both geology and behavior of the alteration and mineralized trends. Results of the

drill program are highlighted in Table 2 followed by a brief description of results obtained in each drill hole.

**RESULTS OF 2007 DRILLING GREATER THAN 100ppb Au
over >2.0 m's**

HOLE #	From (m's)	To (m's)	Interval (m's)	Au gm
TC-07-01	56.00	64.85	8.85	0.227
	113.70	120.00	6.30	0.154
	142.50	177.00	34.50	0.653
incl.	154.00	167.25	13.25	1.280
	191.00	205.00	14.00	0.134
	216.45	224.00	7.55	0.260
	250.00	259.10	9.10	0.208
TC-07-02	79.00	156.00	77.00	0.955
incl.	73.00	137.00	64.00	1.106
incl.	79.00	137.00	58.00	1.211
incl.	89.00	137.00	48.00	1.431
incl.	106.00	137.00	31.00	2.084
incl.	115.80	119.00	3.20	8.862
	149.90	156.00	6.10	0.486
	177.00	200.30	23.30	0.210
incl.	186.20	190.00	3.80	0.671
TC-07-03				NSV
TC-07-04	125.00	127.00	2.00	0.280
	137.00	139.80	2.80	0.184
	254.10	262.00	7.90	0.407
incl.	254.10	256.40	2.50	1.158
TC-07-05	116.80	127.00	10.20	0.177
	153.50	161.00	7.50	0.193
	169.20	182.00	12.80	0.203
incl.	170.00	172.50	2.50	0.600
	232.00	237.90	5.90	0.370

Drill Hole TC-07-01

TC-07-01 was the first hole of the 2007 program and was designed to test an E-W trending chargeability anomaly in an overburden covered area partially exposed by the trench #4 sections. This hole also tested the mafic –conglomerate unconformity and tried to resolve controls on mineralization. This hole encountered the expected sequence at a somewhat acute angle to bedding. The upper portion of the hole to 92.9m's is within pillowed basalts and flow breccia units with occasional chloritic and biotite altered sections with 3-6% disseminated pyrite and anomalous gold values. The unconformity is marked by a felsic QFP flow with autobreccia fragments transitional and becoming poly lithic with conglomerates at 113.75 m's. Several QFP flows and fragmental flows were seen in the hole and on surface in this area and demonstrate the complexity of QFP flows within the sequence predating mineralization, while similar QFP dykes appear quite late and crosscut mineralization.

The balance of the sequence clearly demonstrates the complexity of the sedimentary sequence with alternating conglomerates and chloritic tuffs and muds interbedded down to 230.7 m's. Several sections of the conglomerates show good sulphidation with 5-20+% py +/- po, tr cpy with moderate biotite alteration and minor pervasive silicification. The recognition of chloritic sediments in the sequence is important as previous surface mapping had typically put these mafic looking exposures in with the lower pillowed basalt units. Alteration in the chloritic sediments is not as visually obvious as the conglomerates but consists of secondary chlorite biotite alteration with 5-20% py/po and sometimes is further altered by pervasive silicification and occasionally has late quartz carbonate veining. Both of the sediment rocktypes rock types appear favorable to hosting gold mineralization as can be see in the drill log details. It was also noted that in general the magnetic susceptibility generally has an anomalous high value within mineralized areas suggesting either po or hematite is related to gold mineralization. In general felsic flows did not contain any gold values perhaps due

to low permeability. The end of the hole from 230.7-264.3 m's consisted of a mafic hornblendite intrusive which likely corresponds to other late mafic dykes seen elsewhere crosscutting the sediments. These dykes are probably part of the bimodal volcanic cycle seen elsewhere in the Stormy Lake and Manitou sequence. Interesting enough the hornblendite displayed sections of weak biotite alteration with disseminated pyrite and anomalous gold values indicating the gold event postdates these late mafic dykes.

Drill Hole TC-07-02

This hole was collared in a section west of hole #01 and was drilled at 190 degrees to test across a swampy area underlain by a stronger portion of the E-W trending I.P. chargeability anomaly. This hole is between hole 01 and the area marked as the historic Pelham #3 zone. The hole is logged as collaring in mafics and encountering conglomerates but this is likely the result of extensive multiple phases of alteration and brecciation of mafic volcanics creating difficult lithology recognition. The hole was meant to encounter the unconformity at the top of the hole but the hole collared directly into mafic volcanics. Deformation, alteration and sulphidation with related gold mineralization are present throughout much of the hole from near the top to the bottom. Some QFP dykes maybe present at some of the intervals but variable multiphase alteration masks much of the lithologies. The interval from 79.0-156.0 m's has extensive zones of sulphidation with 10-30% disseminated pyrite and pyrrhotite with variable amounts of silicification, moderate to strong biotite alteration, moderate late secondary chlorite alteration and veinlets of quartz and quartz carbonate veinlets as well as hydrothermal brecciation and the 77.0 m interval returned an average of 0.955 g Au. The paragenesis appears very complex and will require additional studies, several late QFP dykes are present and often display pervasive sericite alteration with 2-5% disseminated pyrite. This zone is very encouraging and requires additional work towards the Pelham #3 area. Again magnetic susceptibility high anomalies appear closely related to mineralization. The greater intensity of alteration and higher sulphide

content in this hole compared to the first hole corresponds very well to the stronger I.P. chargeability anomaly and emphasizes the usefulness of the I.P. survey.

Drill Hole TC-07-03

TC-07-03 was designed to test under the trench #3 area from west to east through the unconformity in an area of near surface high I.P. chargeability response. This hole was also designed to test the widespread gold values returned in several portions of trench #3 at the same time. The hole encountered the expected sequence with pillowed and fragmental basalts encountered from the collar to 166.7 meters where a QFP dyke was encountered and is believed to follow the unconformity. From 183.3 to the end of the hole at 349.6 a thick sediment sequence similar to that in hole TC-07-01 was encountered indicating the sediment sequence is much thicker than surface mapping had indicated and is not intruded by the Thundercloud porphyry on the east as was anticipated. Occasional QFP dykes crosscut this sediment sequence which again consists of alternating cycles of polyolithic conglomerate and chloritic tuffaceous mudstones with occasional exotic pebbles. Alteration and mineralization was generally much weaker than in holes #01 & #02 but wide portions of the hole displayed similar alteration and sulphide intensity comparable to that seen on surface in trench # 03 yet gold values in hole # 03 are generally very low. The maximum gold value in the basalts was up to 0.271 g Au while widespread weak pervasive biotite alteration with 2-3% disseminated pyrite, locally up to 5-10% sulphides was encountered analogous to trench #03.

Widespread weak to moderate pervasive biotite alteration is present in much of the sediments with 3-10 % disseminated pyrite +/- pyrrhotite present. Commonly secondary chlorite and carbonate veinlets are present within the mafic rich mudstones with partial replacement and sulphidation of pebbles quite

common with minor silicification also common in the conglomerates. Again gold values were quite disappointing in the sediments with widespread anomalous values relative to the mafic volcanics but only random intervals of 0.10-0.34 g Au. Additional geochemistry or metallic screening is required to resolve the erratic nature of gold values.

Drill Hole TC-07-04

This hole was designed to mimic the section covered in hole #03 but located a further 110 meters to the south of hole #03, again centered over the strong near surface chargeability anomaly. The hole encountered a very similar sequence to hole 03 and confirms the unconformity is generally a N-S striking subvertical trace in this area extending down into the Armstrong area another 300 meters to the SE. From the collar to 210.6 the same pillowed and autobreccia basalts were encountered with a few small QFP dykes. Again large areas of the mafic volcanics display weak to moderate pervasive biotite alteration with in general 2-3% disseminated pyrite +/- pyrrhotite which in sheared areas can locally attain 10-15% content. Gold values were somewhat higher with several sections of 0.1 – 0.25 g Au but still lower than surface sampling.

At 210.6 a felsic heterolithic flow marks the contact of the unconformity. The balance of the hole to a depth of 331.3 meters consisted of interbedded chloritic mudstones and conglomerates with occasional QFP dykes. Much of this interval has moderate pervasive biotite alteration with 2-10% disseminated sulphides. Other alteration phases includes, the presence of pervasive secondary chlorite alteration with sections of quartz-carbonate veins and veinlets in the sediments. Gold values while generally low were somewhat higher than hole #3 with a number of areas ranging from 0.10-1.22 g Au. Again further studies and additional gold analyses and pathfinder element work is required to resolve gold distribution.

Drill Hole TC-07-05

The final hole of the program tested under the trench #02 area near the Armstrong showing area in a region of moderate chargeability. The hole collared into amygdaloidal pillow basalts down to 36.7 meters where it entered a QFP dyke which continued to a depth of 148.7 meters with occasional slivers of mafic volcanics. This dyke is much more extensive than seen on surface and appears to underlie the well mineralized conglomerates in trench # 02. Either the dyke has a shallow dip to the east or it lies at an acute angle to the drill section and this will need to be resolved in 2008. In retrospect the presence of the dyke is likely the reason for the more subdued chargeability anomaly in this area. Portions of the dyke are pervasively sericitized with 3-8% disseminated sulphides and several portions have anomalous gold values from 0.10-0.25 g Au and this dyke is believed to be the causative intrusion to the overlying mineralization.

The hole finally reached the sediment sequence from 148.7 through to the end of the hole at 312.1 m's. The sequence again consists of alternating cycles of chloritic mudstone and poly lithic conglomerates but there is an increasing number of QFP debris flows and flow breccia units perhaps reflecting a closer proximity to a felsic centre. Several small late mafic dykes were again encountered and are likely part of the late overlying mafic volcanics in the upper part of the Stormy lake sediments. Once again the hole was expected to terminate against the main Thundercloud porphyry stock but this was not reached at the end of the hole. Previous surface mapping with limited surface exposure had projected the stock into this area but as in hole #02 the sediment sequence is wider than previously believed. Once again widespread alteration and mineralization is evident in both the mudstones and conglomerates. In the mudstones alteration consists of strong secondary pervasive chlorite and moderate biotite alteration and sulphidation with typically 3-15% sulphides (pyrite dominant). The conglomerates once again display widespread pervasive moderate biotite alteration typically with sulphidation with 5-15% disseminated sulphides and fragment replacement. Weak silicification

is occasionally seen and late quartz carbonate veinlets are common. Gold values were not as high as surface sampling but were widespread in both the mudstones and conglomerates with values ranging from 0.10-0.99 g/t Au. This again attests to a large gold system with both mudstones and conglomerates offering favorable hosts.

2007 I.P. Survey

In 2007 Abitibi Geophysics was contracted to conduct a resistivity/ induced polarization survey over the central portion of the property. From May to June the program consisted of 26.3 km's of line cutting, with 17.6 km's of pole-dipole I.P. being completed. Some of the lines were not completed due to a combination of swamps and ponds limiting access and logging activities which covered portions of the grid area. Details of the survey and a report are included in Appendix III. This work was filed in 2007 to bring all claims to good standing into at least 2009 the balance of the 2007 work will be filed in 2008.

The time domain pole-dipole survey was based on 100 meter spaced lines with an E-W orientation. Electrode spacing was $a=50$ meters with dipoles $n=1-6$. The survey developed a number of large chargeability anomalies that in general correspond quite well to gold mineralization. The size of the chargeability anomalies is more extensive than anticipated and where tested have a good correlation with gold mineralization which is highly encouraging. A number of anomalies remain to be explained and will be tested by trenching or drilling in 2008. The resistivity anomalies are somewhat more ambiguous with resistivity highs generally corresponding to areas underlain by Thundercloud porphyry and conglomerates with felsic volcanic sequences. The plan maps with geology and gold values are in pockets at the back Map 14 Chargeability, Map 15 Resistivity.

The I.P. survey from the 2007 work appears to be a very valuable tool and additional filtering and targeting will be required to outline targets for testing by trenching or drilling in 2008. Additional I.P. is also planned for extensions of the

anomalies to the north and south and southwest of the 2007 grid in 2008, as well as completion of missing lines within the 2007 grid.

CONCLUSIONS AND RECOMMENDATIONS

The Thundercloud property hosts a number of poorly defined gold showings over a large area. The system appears related to the late high level felsic Thundercloud QFP porphyry. Gold mineralization is complex but is generally related to widespread disseminated and fracture controlled sulphides associated with biotite, calc silicate alteration with minor silicification and quartz carbonate stockwork systems. Gold mineralization of this style can be found in a number of structural orientations and hosted in a number of hostrock lithologies which offer both bulk tonnage targets and highgrade targets. Work in 2007 was very encouraging and a great deal of additional work is required on this largely grassroots target.

For 2008 the following work is suggested. Additional I.P. surveys as infill on lines missed in 2007 and grid extensions to the north, south and southwest. Additional detailed mapping and sampling in the grid areas. Preliminary mapping and prospecting of the balance of the property is also required. Trenching was proven to be a very useful method in overburden areas and should be utilized to test shallow chargeability targets in areas of mineralization. As targets are developed ongoing diamond drilling will be required to develop the 3D orientation of individual zones.

Respectfully submitted,
TECK COMINCO LIMITED

Graeme Evans
February 22, 2008

STATEMENT OF QUALIFICATIONS

I , Graeme Evans , do certify that:

- 1) I am a geologist and have practiced my profession for the last twenty five years.
- 2) I graduated from the University of British Columbia, Vancouver, British Columbia with a Bachelor of Science degree in Geology (1983).
- 3) I am a member in good standing with the APEGBC as a professional geoscientist.
- 4) I was actively involved and supervised the Thundercloud program and authored the report herein. I was present and actively involved in mapping, drilling and co-ordinating the field crew for the entire field program.
- 5) All data contained in this report and conclusions drawn from it are true and accurate to the best of my knowledge.
- 6) I hold no direct or indirect personal interest, in the Thundercloud Group property which is the subject of this report .

Graeme Evans
Senior Geologist
February , 2008

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APPENDIX I

Surface Sampling & Trenching – Sample Descriptions

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
1	2007	TB07053792	grab	A10025173A	534318	5469665	Trench orientation = 180 deg. 1.5m wide x 3 m long.	Pitted appearance on surface of exposed outcrop.
2	2007	TB07053792	grab	A10025171A	534411	5469686	O/C on small clearing on top of hill (no trenching has occurred at this location). Surface of outcrop is 1m x 0.4m. Surface of outcrop is very pitted.	
3	2007	TB07053792	grab	A10025172A	534437	5469688	Trench has orientation of 170 deg. 1.5m wide x 6m long.	
4	2007	TB07053792	grab	A10025170A	534500	5469737	Mafic: coherent, fg, dark greyish green matrix. Sulphides observed in veins. Historic trench, 330 deg orientation, 1m long, 0.5 m wide.	Sample previously taken 285, 286.
5	2007	TB07053792	grab	A10025174A	534307	5469770	Pitted forming weathered out nodules, non-magnetic, very weak biotite observed on weathered surfaces, sulphide abundance is ~ 15%.	
6	2007	TB07053792	grab	A10025169A	534500	5469783	Sample taken 5 m south of sample A10025168A.	
7	2007	TB07053792	grab	A10025167A	534500	5469788	QFP cutting strongly strained rock (protolith unknown). QFP is oriented 265/vertical. QFP is 30cm wide, and cuts through two times through the outcrop (~0.5m apart). Historical sample tag #346 (April 27/04). Two old trenches (N-S observed ~20m to north).	QFP cutting strongly strained rock (protolith unknown). QFP is oriented 265/vertical. QFP is 30cm wide, and cuts through two times through the outcrop (~0.5m apart). Historical sample tag #346 (April 27/04). Two old trenches (N-S observed ~20m to north).
8	2007	TB07053792	grab	A10025168A	534500	5469788	Sample taken on south contact of QFP dyke (about 0.5m from sample 167A).	
9	2007	TB07053792	grab	A10025166A	534447	5469851	O/C shape is like a horse shoe	QFP: White on weathered surface, quartz eyes are dom subrounded (8% abundance), porphyritic texture, aphanitic groundmass, trace to 1% pyrite, iron staining on southface of o/c.

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
1	2007	TB07053792	grab	A10025173A	534318	5469665	mod-strong magnetic				2-3
2	2007	TB07053792	grab	A10025171A	534411	5469686			silica		12
3	2007	TB07053792	grab	A10025172A	534437	5469688	moderate magnetic		strongly silicified	disseminated and clots	10
4	2007	TB07053792	grab	A10025170A	534500	5469737	weakly magnetic			disseminated and in veins	4
5	2007	TB07053792	grab	A10025174A	534307	5469770	non magnetic		silica, weak biotite		15
6	2007	TB07053792	grab	A10025169A	534500	5469783	non magnetic				
7	2007	TB07053792	grab	A10025167A	534500	5469788	non magnetic		silica	disseminated	15
8	2007	TB07053792	grab	A10025168A	534500	5469788	non magnetic		silica		4
9	2007	TB07053792	grab	A10025166A	534447	5469851					0.5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
10	2007	TB07053792	grab	A10025012A	534106	5469858	10 meters wide	Contains sulphides and is weakly magnetic. Clots(1-3mm) and deseminated pyrite
11	2007	TB07053792	grab	A10025011A	534077	5469868		Conglomerate, clasts-rounded, clasts ave ~1cm, differential weathering to rocks surface, matrix is medium-light grey, vfg, silicified, pyritized (~15%), biotite on fractured surface, strain zone 325/75 NE (strain zone)
12	2007	TB07053792	grab	A10025164A	534077	5469868	Sample taken 3m up hill	
13	2007	TB07053792	grab	A10025163A	534042	5469881	North face of cliff (8m high).	MAFIC: vfg, sulphides occur a dissem and along biotite-rich veins (3-4% sulphide abundance), groundmass is weakly magnetic,
14	2007	TB07053792	grab	A10025162A	534043	5469882	North face of cliff (8m high).	MAFIC: vfg, sulphides occur as dissem and as sub mm wide stringers (2-3% abundance), weakly magnetic (possibly pyrrhotite alteration), no evidence of biotite alteration.
15	2007	TB07053792	grab	A10025165A	534521	5469927		Same as sample info
16	2007	TB07053792	grab	A10025010A	534043	5469937	30m in length, rusty greyish green surface.	Mafic: greyish green to black colour, vfg
17	2007	TB07053792	grab	A10025006A	534364	5469938		See sample info.
18	2007	TB07053792	grab	A10025005A	534364	5469986	Unit is cut by 10cm wide QFP dyke that has 150 deg orientation.	See sample info.
19	2007	TB07053792	grab	A10025009A	534022	5469997	SW facing cliff, higly fractured and iron stained, 1/2 m high, 25 m strike.	Mafic, choherent, highly fractured (gossanous), contains biotite alteration and pyrrhotite (magnetic), moderately sulphidized (~10%).
20	2007	TB07053792	grab	A10025161A	534327	5470001	small cliff on side of lake	See sample info. (proposed to be silicified mafic).
21	2007	TB07053792	grab	A10025008A	534070	5470009	Sample taken from cliff face (facing lake). Pyrite % varies from trace to up to 6%.	Mafic, dark grey-black, vfg, coherent, clots of biotite and vfg sulphides (4-6%), weakly magnetic, all sulphides in groundmass.
22	2007	TB07053792	grab	A10025007A	534325	5470014		Silicified mafic, greenish grey colouration, aphanitic groundmass, disseminated pyrite 4-6%)
23	2007	TB07053792	grab	A10025037A	533984	5470025	iron stained outcrop near beaver dam	mafic unit
24	2007	TB07053792	grab	A10025067A	534455	5470092	Prospector trench	Coherent aphanitic mafic = BASALT
25	2007	TB07053792	grab	A10025066A	534456	5470104	Prospector trench	Coherent aphanitic mafic = BASALT

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
10	2007	TB07053792	grab	A10025012A	534106	5469858	weakly magnetic			clots and disseminated	4
11	2007	TB07053792	grab	A10025011A	534077	5469868		strain zone	sil, bio	py	15
12	2007	TB07053792	grab	A10025164A	534077	5469868			sil, bio		15
13	2007	TB07053792	grab	A10025163A	534042	5469881	weakly magnetic		biotite veins	disseminations + sub mm wide biotite stringers	3.5
14	2007	TB07053792	grab	A10025162A	534043	5469882	weakly magnetic			disseminations + sub mm wide stringers (possibly pyrrhotite)	2.5
15	2007	TB07053792	grab	A10025165A	534521	5469927					3
16	2007	TB07053792	grab	A10025010A	534043	5469937			biotite + sulphidation	pyrrhotite (magnetic), disseminated + in veins	4
17	2007	TB07053792	grab	A10025006A	534364	5469938	non magnetic			disseminated	1.5
18	2007	TB07053792	grab	A10025005A	534364	5469986			biotite on fractures	discontinuous veins and clots	4
19	2007	TB07053792	grab	A10025009A	534022	5469997	magnetic		biotite	pyrrhotite (magnetic)	10
20	2007	TB07053792	grab	A10025161A	534327	5470001			biotite, silica	blebs	2
21	2007	TB07053792	grab	A10025008A	534070	5470009	weakly magnetic		biotite	vfg sulphides in clots	5
22	2007	TB07053792	grab	A10025007A	534325	5470014			silicified	disseminated	5
23	2007	TB07053792	grab	A10025037A	533984	5470025			low to moderate biotite	disseminated and in blebs	1
24	2007	TB07053792	grab	A10025067A	534455	5470092	magnetic		Gossanous zone. Strong pyrite (5%) with possibly pyrrhotite. Magnetic. Biotite with chlorite/actinolite. Strongly silicified. No reaction to HCl.	5 % pyrite	5
25	2007	TB07053792	grab	A10025066A	534456	5470104	magnetic		Gossanous zone. Strong pyrite (5%) with possibly pyrrhotite. Magnetic. Biotite with chlorite/actinolite. Strongly silicified. No reaction to HCl.	5 % pyrite	5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
26	2007	TB07053792	grab	A10025061A	534428	5470110	Prospector trench	Coherent aphanitic mafic = BASALT
27	2007	TB07053792	grab	A10025060A	534430	5470113	Prospector trench	Coherent aphanitic mafic = BASALT
28	2007	TB07053792	grab	A10025036A	533846	5470115	stained mafic unit near QFP/mafic contact	mafic unit
29	2007	TB07053792	grab	A10025065A	534456	5470115	Prospector trench	Coherent aphanitic mafic = BASALT
30	2007	TB07053792	grab	A10025059A	534431	5470118	Prospector trench	Coherent aphanitic mafic = BASALT
31	2007	TB07053792	grab	A10025038A	534070	5470119	rusty mafic outcrop by old flagging tape	mafic

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
26	2007	TB07053792	grab	A10025061A	534428	5470110	weakly magnetic		Gossanous zone. Intense (up to 10% pyrite) ?and pyrrhotite. Weakly magnetic. Silicified. Trace carbonate veins. Chlorite (or actinolite?) veining up to 3 mm wide, pervasive in sample. Biotite patches (purple-brown colour, soft patches).	10 % pyrite + ?pyrrhotite	10
27	2007	TB07053792	grab	A10025060A	534430	5470113	strong magnetic		Gossanous zone. Intense (up to 20% pyrite) ?and pyrrhotite. Strongly magnetic. Silicified. Trace carbonate veins. Chlorite (or actinolite?) veining up to 3 mm wide, pervasive in sample. Biotite patches (purple-brown colour, soft patches).	20 % pyrite + ?pyrrhotite, possible trace chalcopyrite	20
28	2007	TB07053792	grab	A10025036A	533846	5470115			moderate to high biotite, carbonate (no hcl)	disseminated and elongated clots	3
29	2007	TB07053792	grab	A10025065A	534456	5470115	magnetic		Gossanous zone. Strong pyrite (5%) with possibly pyrrhotite. Magnetic. Biotite with chlorite/actinolite. Strongly silicified. No reaction to HCl.	5 % pyrite	5
30	2007	TB07053792	grab	A10025059A	534431	5470118	weakly magnetic		Gossanous zone. Intense (up to 10% pyrite) ?and pyrrhotite. Weakly magnetic. Silicified. Trace carbonate veins. Chlorite (or actinolite?) veining up to 3 mm wide, pervasive in sample. Biotite patches (purple-brown colour, soft patches).	10 % pyrite + ?pyrrhotite	10
31	2007	TB07053792	grab	A10025038A	534070	5470119			low to moderate biotite	disseminated and is stretched veinlets	2

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
32	2007	TB07053792	grab	A10025058A	534432	5470121	Prospector trench	Coherent aphanitic mafic = BASALT
33	2007	TB07053792	grab	A10025063A	534410	5470125	Prospector trench	Coherent aphanitic mafic = BASALT
34	2007	TB07053792	grab	A10025197A	533796	5470126	edge of lake	Mafic: mod biotite and chlorite alt, magnetic, trace - 1% disseminated pyrite.
35	2007	TB07053792	grab	A10025057A	534436	5470126	Prospector trench - E side	Coherent aphanitic mafic = BASALT
36	2007	TB07053792	grab	A10025064A	534412	5470130	Prospector trench	Coherent aphanitic mafic = BASALT
37	2007	TB07053792	grab	A10025200A	533902	5470138		mafic unit
38	2007	TB07053792	grab	A10025075A	534435	5470143		
39	2007	TB07053792	grab	A10025076A	534435	5470143		
40	2007	TB07053792	grab	A10025077A	534435	5470143		
41	2007	TB07053792	grab	A10025078A	534445	5470154	very poorly exposed	Mafic
42	2007	TB07053792	grab	A10025079A	534455	5470154	very rubbly no O/c	actinolite bands and minor QFP rubble/
43	2007	TB07053792	grab	A10025080A	534460	5470154	Massive	Mafic

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
32	2007	TB07053792	grab	A10025058A	534432	5470121	weakly magnetic		Gossanous zone. Intense (up to 10% pyrite) ?and pyrrhotite. Weakly magnetic. Silicified. Trace carbonate veins. Chlorite (or actinolite?) veining up to 3 mm wide, pervasive in sample. Biotite patches (purple-brown colour, soft patches).	10 % pyrite + ?pyrrhotite	10
33	2007	TB07053792	grab	A10025063A	534410	5470125	strong magnetic		Well-mineralized. 7% sulphide. Gossanous (but not as well developed as core area of trench). Pyrite dominant sulfide, but strongly magnetic - don't see pyrrhotite but magnetic at sulfides so assuming present. Biotite alteration. Silicified. No reaction	7 pyrite + ?pyrrhotite	7
34	2007	TB07053792	grab	A10025197A	533796	5470126	magnetic		w - mod biotite and chlorite alteration	disseminated	0.5
35	2007	TB07053792	grab	A10025057A	534436	5470126	non magnetic		Barren mafic, non-magnetic, intense carbonate alteration, stringer epidote veins, no silicification	None	0
36	2007	TB07053792	grab	A10025064A	534412	5470130	strong magnetic		Well-mineralized. 5% sulphide. Gossanous (but not as well developed as core area of trench). Pyrite dominant sulfide, but strongly magnetic - don't see pyrrhotite but magnetic at sulfides so assuming present. Biotite alteration. Silicified. No reaction	5 pyrite + ?pyrrhotite	5
37	2007	TB07053792	grab	A10025200A	533902	5470138			weak biotite	disseminated	2
38	2007	TB07053792	grab	A10025075A	534435	5470143					
39	2007	TB07053792	grab	A10025076A	534435	5470143					
40	2007	TB07053792	grab	A10025077A	534435	5470143					
41	2007	TB07053792	grab	A10025078A	534445	5470154			strong bio	trace pyrrhotite and chalco	10
42	2007	TB07053792	grab	A10025079A	534455	5470154			strong bio with actinolite bands		10
43	2007	TB07053792	grab	A10025080A	534460	5470154		weak	strong pervas bio	pyrite disseminated	5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
44	2007	TB07053792	grab	A10025157A	534156	5470156		Mafic: Dark grey to black, coherent, vfg groundmass, sub-mm hornblende crystals, moderately hard to scratch, no sulphides, non-magnetic.
45	2007	TB07053792	grab	A10025081A	534465	5470159	very rubbly	MAFIC
46	2007	TB07053792	grab	A10025199A	533868	5470166	outcrop on side of lake	grey gree mafic unit, fine grained
47	2007	TB07053792	grab	A10025071A	534529	5470166		
48	2007	TB07053792	grab	A10025072A	534529	5470166		
49	2007	TB07053792	grab	A10025073A	534529	5470166		
50	2007	TB07053792	grab	A10025404A	534220	5470174	Trench 123 area	Coherent aphanitic mafic = BASALT
51	2007	TB07053792	grab	A10025000A	534173	5470179	Trench 123 area	Coherent aphanitic mafic = BASALT
52	2007	TB07053792	grab	A10025002A	534163	5470185	3m long	Basalt in this interval is preferentially weathered (giving a box like shape).
53	2007	TB07053792	grab	A10024998A	534183	5470194	Trench 123 area	Coherent aphanitic mafic = BASALT
54	2007	TB07053792	grab	A10025405A	534235	5470194	Trench 123 area	Coherent aphanitic mafic = BASALT
55	2007	TB07053792	grab	A10024999A	534181	5470195	Trench 123 area	Quartz-phyric felsic porphyry
56	2007	TB07053792	grab	A10025158A	534178	5470197	Strongly foliated mafic interval, intruded by QFP (QFP approx. 1m x 1m), foliation of mafic is 065/78 SE, preferential alignment of weathered out material is approx. 60 degree orientation	See outcrop description
57	2007	TB07053792	grab	A10025074A	534559	5470198		
58	2007	TB07053792	grab	A10025406A	534289	5470201	Trench 123 area	Quartz-phyric felsic porphyry
59	2007	TB07053792	grab	A10025042A	533907	5470202	large outcrop exposure again on edge of swamp	gabbro
60	2007	TB07053792	grab	A10025403A	534182	5470206	Trench 123 area	Coherent aphanitic mafic = BASALT
61	2007	TB07053792	grab	A10025160A	534243	5470212	pitted basalt in contact with QFP dyke.	pitted basalt in contact with QFP dyke.
62	2007	TB07053792	grab	A10025003A	534180	5470221	Trench cuts QFP dyke and basalt.	QFP dyke contains pyritized stringers (less than 5%)
63	2007	TB07053792	grab	A10025159A	534180	5470221	QFP dyke cuts basalt, pyritized at contact.	Mafic: coherent, 5-7% pyrite.

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
44	2007	TB07053792	grab	A10025157A	534156	5470156	non magnetic			none	0
45	2007	TB07053792	grab	A10025081A	534465	5470159			strong bio	Disseminated	2
46	2007	TB07053792	grab	A10025199A	533868	5470166		weak	weak biotite	disseminated	1
47	2007	TB07053792	grab	A10025071A	534529	5470166			strong biotite alteration	Pyrite 5-8%	6
48	2007	TB07053792	grab	A10025072A	534529	5470166			strong biotite alteration	5-10% pyrite	7
49	2007	TB07053792	grab	A10025073A	534529	5470166			strong biotite alteration	5-10% pyrite	7
50	2007	TB07053792	grab	A10025404A	534220	5470174	weakly magnetic		moderate biotite alteration; intensely silicified	2% pyrite/pyrrhotite	2
51	2007	TB07053792	grab	A10025000A	534173	5470179	magnetic		Coherent aphanitic mafic, intense biotite alteration; blebs/veins of green hydrothermal mineral (chlorite/actinolite); magnetic; sulfide zones are magnetic	6 % pyrite/pyrrhotite	6
52	2007	TB07053792	grab	A10025002A	534163	5470185	weakly magnetic			Pyrite	5
53	2007	TB07053792	grab	A10024998A	534183	5470194	weakly magnetic		Intense biotite alteration, weakly magnetic, no obvious chlorite/actinolite, weak carbonate, ~6% pyrrhotite/pyrite	6 % pyrite/pyrrhotite	6
54	2007	TB07053792	grab	A10025405A	534235	5470194	non magnetic		biotite (blebs), actinolite?	2-3% pyrite	2
55	2007	TB07053792	grab	A10024999A	534181	5470195			Small (mm-scale) veinlets of biotite and quartz cut across QFP, with trace accessory sulfides	trace	0.25
56	2007	TB07053792	grab	A10025158A	534178	5470197		strong			
57	2007	TB07053792	grab	A10025074A	534559	5470198			Strong biotite, mild chlorite	Pyrite	5
58	2007	TB07053792	grab	A10025406A	534289	5470201					
59	2007	TB07053792	grab	A10025042A	533907	5470202				disseminated	0.5
60	2007	TB07053792	grab	A10025403A	534182	5470206	weakly magnetic		moderate biotite alteration; intensely silicified	2% pyrite/pyrrhotite	2
61	2007	TB07053792	grab	A10025160A	534243	5470212	non magnetic		biotite	amorphous blebs	9
62	2007	TB07053792	grab	A10025003A	534180	5470221			Pyritized	pyrite stringers	3
63	2007	TB07053792	grab	A10025159A	534180	5470221	non magnetic		Pyritized	Pyrite	5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
64	2007	TB07053792	grab	A10025402A	534187	5470223	Trench 123 area	Coherent aphanitic mafic = BASALT
65	2007	TB07053792	grab	A10025401A	534188	5470223	Trench 123 area	Coherent aphanitic mafic = BASALT
66	2007	TB07053792	grab	A10025004A	534269	5470225	mafic pitted interval (sulfide rich), QFP cuts basalt at 40 deg.	See outcrop description and sample info.
67	2007	TB07053792	grab	A10025109A	534398	5470232		Conglomerate, 1-2% Pyrite, visible clasts, QP's in matrix
68	2007	TB07053792	grab	A10025108A	534371	5470244		Conglomerate: pebbles / cobbles observed on weathered surface, foliation @ 40/75W
69	2007	TB07053792	grab	A10025198A	533869	5470250	outcrop of mafics on swamp edge showing iron oxidation on the surface	grey green mafic unit
70	2007	TB07053792	grab	A10024984A	534399	5470273	ridge adjacent to new road	Coherent aphanitic mafic (absence of Qtz), no fabric observed.
71	2007	TB07053792	grab	A10024985A	534424	5470294	float, up to 3% sulphides observed	Not documented in Steve's notes, however proposed to be similar host rock to that observed in station SSTD07009A
72	2007	TB07053792	grab	A10024986A	534424	5470294	float, up to 3% sulphides observed	Not documented in Steve's notes, however proposed to be similar host rock to that observed in station SSTD07009A
73	2007	TB07053792	grab	A10025156A	534134	5470321		MAFIC: dark greenish grey, weak scratch, non magnetic, blebs of amorphous sulphide (0.5%).
74	2007	TB07053792	grab	A10025070A	534517	5470411		See sample info.
75	2007	TB07053792	grab	A10024987A	534544	5470423		Mafic: silicified, up to 10% sulphides observed.
76	2007	TB07053792	grab	A10024988A	534544	5470423		Steve wasn't sure if sample was silicified mafic, or siliceous (felsic) unit. He described it as felsic cross-cut by veining.
77	2007	TB07053792	grab	A10025035A	533957	5470481	Coarse Crowded QFP	qfp, dyke
78	2007	TB07053792	grab	A10024989A	534586	5470541		Conglomerate: Angular (1.5cm long clasts), Qtz eyes observed, Qtz and feldspar phenos form the groundmass, magnetic, biotite alteration.
79	2007	TB07053792	grab	A10025034A	533814	5470552		QFP: Qtz eyes (1-3mm),
80	2007	TB07053792	grab	A10025104A	534567	5470556	Uncertain, possible mafic?	See sample info.
81	2007	TB07053792	grab	A10025027A	534535	5470569		MAFIC: dark greyish green, non magnetic, chloritized, bleb-like sulphides (3%) abundance.
82	2007	TB07053792	grab	A10024990A	534541	5470576	location of o/c is ~7m @63 deg off of trail	Conglomerate: sulphides observed in matrix (no recorded percentage)
83	2007	TB07053792	grab	A10024991A	534541	5470576	location of o/c is ~7m @63 deg off of trail	Conglomerate: sulphides observed in matrix (no recorded percentage)
84	2007	TB07053792	grab	A10025033A	533820	5470580		Mafic, vfg, basalt, vespicular, pillowed, minor biotite alteration, veins x-cutting interval.
85	2007	TB07053792	grab	A10024992A	534510	5470588	o/c trending at 24 deg	Conglomerate: sample taken from N-S historic channel cut
86	2007	TB07053792	grab	A10024993A	534508	5470591	o/c trending at 24 deg	Conglomerate: sample taken from W-E historic channel cut
87	2007	TB07053792	grab	A10024995A	534512	5470592	o/c trending at 24 deg	Conglomerate: sample taken from W-E historic channel cut
88	2007	TB07053792	grab	A10024994A	534512	5470594	o/c trending at 24 deg	Conglomerate: sample taken from W-E historic channel cut
89	2007	TB07053792	grab	A10024996A	534486	5470599		Mafic unit, sulphides in matrix (no % provided).
90	2007	TB07053792	grab	A10025026A	534473	5470610	6m long, strikes N-S	MAFIC: grey, vfg, weakly magnetic, 0.5% sulphides
91	2007	TB07053792	grab	A10024997A	534468	5470618		Mafic unit: pyrrhotite/biotite alteration
92	2007	TB07053792	grab	A10025185A	534373	5470635		Mafic, med grey-black, vfg groundmass, 2-3% py in groundmass, weak scratch, non magnetic.
93	2007	TB07053792	grab	A10025187A	534390	5470639		coherent mafic, very fine grained, weakly scratched, gossanous patches

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
64	2007	TB07053792	grab	A10025402A	534187	5470223	weakly magnetic		moderate biotite alteration; intensely silicified	1% pyrite	1
65	2007	TB07053792	grab	A10025401A	534188	5470223	sulphide zones are magnetic		moderate biotite alteration; intensely silicified (possible albite alteration too), blebs/veins of green hydrothermal mineral (chlorite/actinolite)	17% pyrite/pyrrhotite	17
66	2007	TB07053792	grab	A10025004A	534269	5470225	non magnetic		biotite	Pyrite	13
67	2007	TB07053792	grab	A10025109A	534398	5470232				Pyrite	1
68	2007	TB07053792	grab	A10025108A	534371	5470244				trace py	0.01
69	2007	TB07053792	grab	A10025198A	533869	5470250			weak biotite	disseminated and in clots	2
70	2007	TB07053792	grab	A10024984A	534399	5470273			local cm-scale darker bands (biotite), dark green mineral (chlorite or actinolite?)		0
71	2007	TB07053792	grab	A10024985A	534424	5470294			biotite	pyrite	0.5
72	2007	TB07053792	grab	A10024986A	534424	5470294				pyrite	0.01
73	2007	TB07053792	grab	A10025156A	534134	5470321	non magnetic		chlorite	blebs	0.5
74	2007	TB07053792	grab	A10025070A	534517	5470411	weakly magnetic			Pyrite	5
75	2007	TB07053792	grab	A10024987A	534544	5470423			silicified	no info provided (up to 10% in o/c however, no data about	
76	2007	TB07053792	grab	A10024988A	534544	5470423			silicified	no info provided (up to 10% in o/c however, no data about	
77	2007	TB07053792	grab	A10025035A	533957	5470481				trace pyrite	0.01
78	2007	TB07053792	grab	A10024989A	534586	5470541			local biotite flooding	pyrite	1.5
79	2007	TB07053792	grab	A10025034A	533814	5470552			biotite altering chlorite	sulphide rich in areas	6
80	2007	TB07053792	grab	A10025104A	534567	5470556	strong magnetic		Strong biotite, pyrite	Pyrite	4
81	2007	TB07053792	grab	A10025027A	534535	5470569	non magnetic		strongly chloritized	sulphides occur in blebs	3
82	2007	TB07053792	grab	A10024990A	534541	5470576				pyrite in matrix, no percentage	
83	2007	TB07053792	grab	A10024991A	534541	5470576				pyrite in matrix, no percentage	
84	2007	TB07053792	grab	A10025033A	533820	5470580			chlorite, biotite		0.5
85	2007	TB07053792	grab	A10024992A	534510	5470588		Clast orientation			
86	2007	TB07053792	grab	A10024993A	534508	5470591					
87	2007	TB07053792	grab	A10024995A	534512	5470592					
88	2007	TB07053792	grab	A10024994A	534512	5470594					
89	2007	TB07053792	grab	A10024996A	534486	5470599				sulphides in matrix, no %	
90	2007	TB07053792	grab	A10025026A	534473	5470610	weakly magnetic				0.5
91	2007	TB07053792	grab	A10024997A	534468	5470618			biotite	Pyrrhotite (no % provided)	
92	2007	TB07053792	grab	A10025185A	534373	5470635	non magnetic			py disseminated in groundmass	2.5
93	2007	TB07053792	grab	A10025187A	534390	5470639	weakly magnetic			disseminated	2

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
94	2007	TB07053792	grab	A10025025A	534465	5470643	oriented ~040 deg.	Mafic: greyish green to black colour, vfg, few carbonate veins cut interval, 1-2% sulphides, weakly magnetic.
95	2007	TB07053792	grab	A10025024A	534475	5470661	QFP o/c is oriented N-S and is 10m in length.	QFP: Pale green colouration, qtz eyes 1-3mm, no sulphides observed, no biotite observed.
96	2007	TB07053792	grab	A10025102A	534512	5470666	Conglomerate, clasts are approx. 3-4 cm.	See sample info.
97	2007	TB07053792	grab	A10025176A	534485	5470667		Conglomerate: Preferential alignment of clasts in conglomerate is ~180 deg (N-S). Clasts observed in conglomerate are up to 10cm wide by 15cm long.
98	2007	TB07053792	grab	A10025186A	534357	5470678	about 2 m long and 0.5 m high	mafic coherent rock with fine grained goundmass, rock scratches
99	2007	TB07053792	grab	A10025103A	534535	5470680	Conglomerate, clasts approx. 4 cm, follows same ridge as Trench 5	See sample info.
100	2007	TB07053792	grab	A10025175A	534555	5470680		Conglomerate: Clasts visible on weathered surface, weak biotite and green mica associated with sulphides, matrix is silicified, clasts vary in size from 3mm to cm-size, sulphides occur disseminated in matrix and as clots. Few quartz eyes observed in mat
101	2007	TB07053792	grab	A10025041A	533970	5470720	O/c near swamp edge, rusty surface	Mafic: greenish colouration, vfg, sulphides occur in clots and disseminated (1%)
102	2007	TB07053792	grab	A10025105A	534301	5470721	10m x 5m, mafic, oriented 027	See sample info.
103	2007	TB07053792	grab	A10025032A	534047	5470789	3m wide revealed face. Weatering pale grey on surface.	MAFIC: black grey green, possibly silicified.
104	2007	TB07053792	grab	A10025181A	534475	5470923		Polymictic fragmental with quartz eyes in matrix, dominant clast composition is QFP (range in size from sub cm-5cm in length), these clasts protrude from the host rock and are dominantly sub angular, there are also other light grey angular clasts (range
105	2007	TB07053792	grab	A10025177A	534481	5470935		QFP, light grey in colour groundmass, strongly silicified, quartz crystals average between 1mm-5mm, 4% disseminated sulfides, non-magnetic, proposed to be pyrite
106	2007	TB07053792	grab	A10025182A	534488	5470939	On a east facing cliff face.	Conglomerate: angular clasts (polymictic, contains QFP and clasts (mafic?)), clasts contain a 156/54E orientation, trace sulphides.
107	2007	TB07053792	grab	A10025188A	534028	5470959	~10m long, striking 60 deg, 2m high.	
108	2007	TB07053792	grab	A10025179A	534515	5470970	A knoll of QFP running approx. 10m x 10m, no much exposure, seems to follow a small ridge 320 in orientation with a possible contact zone with mafics.	
109	2007	TB07053792	grab	A10025189A	534072	5470991		O/c is 2mx1m, possible contact b/w mafic and felsic fragmental? Appears to have white cherty surface with angular fragments and anastomosing chlorite veins.
110	2007	TB07053792	grab	A10025190A	534072	5470991		O/c is 2mx1m, possible contact b/w mafic and felsic fragmental? Appears to have white cherty surface with angular fragments and anastomosing chlorite veins. Mafic unit is vfg.
111	2007	TB07053792	grab	A10025180A	534493	5471000	Outcrop is a heave, 2m x 0.5m cliff face facing east, fracture sets at approx. 235 (sub vertical), fracture spacing 5-20 cm, south side of outcrop is a relatively altered QFP compared to rest of outcrop.	See sample info.
112	2007	TB07053792	grab	A10025030A	533878	5471007	O/c observed on western side of ridge. O/c is 10x5m.	MAFIC: Greyish green with purplish brown colouration (biotite alteration), iron stained, non magnetic, pyrite 1% (formed in small clots).
113	2007	TB07053792	grab	A10025178A	534337	5471007	Weathered pitted, mottled surface, nodules observed, no distinct clasts observed (cant really label as congl.), green veins observed on surface, veins oriented as 173/64 E, veins constitute 10% of surface exposure (possible chlorite veins), veins weather	See sample info.
114	2007	TB07053792	grab	A10025031A	534137	5471023	O/c exposed at top of N-S ridge	MAFIC: grey - green, vfg, cut by green veins (chlorite), magnetic, sulphides occur in blebs, no biotite observed, sulphides ~1-2%

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
94	2007	TB07053792	grab	A10025025A	534465	5470643	weakly magnetic				1.5
95	2007	TB07053792	grab	A10025024A	534475	5470661					0
96	2007	TB07053792	grab	A10025102A	534512	5470666			chlorite, biotite?	Pyrite	4
97	2007	TB07053792	grab	A10025176A	534485	5470667	non magnetic	Clast orientation			
98	2007	TB07053792	grab	A10025186A	534357	5470678	moderate magnetic		moderate chlorite		2
99	2007	TB07053792	grab	A10025103A	534535	5470680			chlorite, biotite.	Pyrite	3
100	2007	TB07053792	grab	A10025175A	534555	5470680	magnetic		biotite, chlorite, silica	disseminated and clots	6
101	2007	TB07053792	grab	A10025041A	533970	5470720			chlorite	clots and disseminated	1
102	2007	TB07053792	grab	A10025105A	534301	5470721	magnetic		chlorite, strong biotite	Pyrite	11
103	2007	TB07053792	grab	A10025032A	534047	5470789			Chlorite, silicified	trace pyrite	0.01
104	2007	TB07053792	grab	A10025181A	534475	5470923					
105	2007	TB07053792	grab	A10025177A	534481	5470935	non magnetic		w-m biotite,		6% pyrite
106	2007	TB07053792	grab	A10025182A	534488	5470939	non magnetic			Pyrite?	4
107	2007	TB07053792	grab	A10025188A	534028	5470959		Clast orientation		trace	0.01
108	2007	TB07053792	grab	A10025179A	534515	5470970	non magnetic			Pyrite	1
109	2007	TB07053792	grab	A10025189A	534072	5470991				disseminated sulphides	1
110	2007	TB07053792	grab	A10025190A	534072	5470991				trace	0.01
111	2007	TB07053792	grab	A10025180A	534493	5471000	non magnetic			Pyrite	9
112	2007	TB07053792	grab	A10025030A	533878	5471007	non magnetic		chlorite, biotite	clots	1
113	2007	TB07053792	grab	A10025178A	534337	5471007	sulphide blebs are magnetic		chlorite veins	Pyrrhotite	2
114	2007	TB07053792	grab	A10025031A	534137	5471023	magnetic		chlorite	blebs	1.5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
115	2007	TB07053792	grab	A10025450A	534398	5471027		QFP: Dark green to black, moderate scratch, green dusting (possibly chlorite alteration), Qtz eyes (transparent, bluish colouration), ~3-5% abundance, strongly magnetic, sulphides occur in blebs (elongated), sulphide % 1-2%.
116	2007	TB07053792	grab	A10025191A	534267	5471028		Mafic: strongly biotite altered, 2% sulphides (dissem and blebs), qtz eyes observed, however proposed to still be in mafic (at contact). Contact strikes @ 48 deg.
117	2007	TB07053792	grab	A10025039A	534373	5471065		Mafic: weak biotite alteration, trace - 1% disseminated sulphides
118	2007	TB07053792	grab	A10025040A	534469	5471067		possible conglomerate
119	2007	TB07053792	grab	A10025192A	534250	5471086		Mafic: moderate biotite alteration, magnetic, sulphides dissem and in blebs ~5%
120	2007	TB07053792	grab	A10025193A	534250	5471086		QFP: ~7% pyrite (large blebs), weakly mag, w-mod biotite alteration.
121	2007	TB07053792	grab	A10025029A	533812	5471091	N-S ridge	MAFIC: dark grey on weathered surface, green on fresh surface (soft so proposed to be chlorite), no biotite observed, sulphides ~0.5%.
122	2007	TB07053792	grab	A10025028A	534194	5471138	O/c is oriented at 020 deg and is 17 x 10m.	MAFIC: white weathered surface with green veining, non magnetic, sulphides occur in clots and as disseminations (1%).
123	2007	TB07053792	grab	A10025183A	534402	5471144		QFP, fine to medium grained groundmass, up to ~1% quartz eyes observed, scratches easily
124	2007	TB07053792	grab	A10025446A	534424	5471147		Qtz eyes present (proposed to be QFP), vfg groundmass, grey green colouration, non magnetic, sulphides (disseminated and occurs in clots) ~1%
125	2007	TB07053792	grab	A10025449A	534337	5471153	Talus on cliff face (~35m long, orientation 030).	QFP: Black on fresh surface, qtz eye abundance (5-6%), host rock is non magnetic, sulphides occur in clots and minor disseminations (1-2%), no biotite alteration observed.
126	2007	TB07053792	grab	A10025184A	534355	5471167		coherent mafic, dark greenish grey to black, dark grey sections moderately resistant to scratch
127	2007	TB07053792	grab	A10025447A	534040	5471177		Mafic: greyish green, vfg, strongly chloritized, trace sulphides (blebs), carbonate veins,
128	2007	TB07053792	grab	A10025014A	534275	5471183	W side of road: 8 x 4 m, trending 010	Coarse crystalline coherent GABRO, geldspar laths up to 4 mm, hornblende crystals up to 3 mm
129	2007	TB07053792	grab	A10025445A	534466	5471196		Same description as A10025444A, however, ~3% sulphides, silicified zones associated with sulphides.
130	2007	TB07053792	grab	A10025444A	534466	5471200	O/c exposed along a strain zone	Qtz eyes observed in centre of o/c, over all colour of rock is greyish green with pinkish patches, groundmass is vfg, strongly silicified, green mineral present in areas (chlorite?), sulphides disseminated and in ~1mm wide veins (up to ~9%, however, othe
131	2007	TB07053792	grab	A10025013A	534317	5471216	15 m N of RR07TC010, E side of road	Polymictic conglomerate
132	2007	TB07053792	grab	A10025439A	534253	5471219	Sample taken on NW side of ridge.	
133	2007	TB07053792	grab	A10025448A	534402	5471238		Mafic: vfg, green grey, chlorite altered, trace sulphides, non magnetic
134	2007	TB07053792	grab	A10025015A	534122	5471274	South side of ridge	Finely crystalline to aphanitic coherent, MAFIC
135	2007	TB07053792	grab	A10025426A	534479	5471274		
136	2007	TB07053792	grab	A10025427A	534456	5471295		

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
115	2007	TB07053792	grab	A10025450A	534398	5471027	strongly magnetic		chlorite	blebs	1.5
116	2007	TB07053792	grab	A10025191A	534267	5471028			strong biotite	disseminations and blebs	2
117	2007	TB07053792	grab	A10025039A	534373	5471065			weak biotite alteration	disseminated	0.5
118	2007	TB07053792	grab	A10025040A	534469	5471067			weak biotite, chlorite	disseminated	1
119	2007	TB07053792	grab	A10025192A	534250	5471086	magnetic		biotite	disseminations and blebs	5
120	2007	TB07053792	grab	A10025193A	534250	5471086	weakly magnetic		w-mod biotite alteration	blebs	7
121	2007	TB07053792	grab	A10025029A	533812	5471091			chloritized		0.5
122	2007	TB07053792	grab	A10025028A	534194	5471138			chloritized	clots and disseminated	1
123	2007	TB07053792	grab	A10025183A	534402	5471144	non magnetic		strongly chloritized	Py & CCP bleb observed (~0.5 %)	0.5
124	2007	TB07053792	grab	A10025446A	534424	5471147	non magnetic		chlorte	disseminated and in clots	1
125	2007	TB07053792	grab	A10025449A	534337	5471153	non magnetic		chlorite	disseminations and clots	1.5
126	2007	TB07053792	grab	A10025184A	534355	5471167			chlorite altered in patches	sulfides are moderately euhedral	5
127	2007	TB07053792	grab	A10025447A	534040	5471177			chlorite veins	sulfides present in blebby form, contains cubic bronzy mineral	0.01
128	2007	TB07053792	grab	A10025014A	534275	5471183			Patchy biotite, possibly replacing hornblende. Weak pervasive chlorite.	Trace pyrite. Magnetic.	0.5
129	2007	TB07053792	grab	A10025445A	534466	5471196			silica, chlorite	disseminated and in veinlets	3
130	2007	TB07053792	grab	A10025444A	534466	5471200			silica, chlorite	disseminated and in veinlets	9
131	2007	TB07053792	grab	A10025013A	534317	5471216			Weak chl, unidentified brown mineral (not biotite) - both in veins and matrix	Disseminated pyrite	0.5
132	2007	TB07053792	grab	A10025439A	534253	5471219	weakly magnetic				
133	2007	TB07053792	grab	A10025448A	534402	5471238	non magnetic		chlorite	trace disseminated	0.01
134	2007	TB07053792	grab	A10025015A	534122	5471274	strong magnetic		Weak chl, weak silicification. No obvious biotite. Strongly magnetic.	Pyrite	1
135	2007	TB07053792	grab	A10025426A	534479	5471274				clots and disseminated	7
136	2007	TB07053792	grab	A10025427A	534456	5471295	weakly magnetic		biotite	disseminations and clots	3

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
137	2007	TB07053792	grab	A10025017A	534044	5471305	Outcrop dark green, 15 m length, with a trench oriented 018	MAFIC
138	2007	TB07053792	grab	A10025436A	534234	5471312	15m x 2m NNE facing, gossanous,	QFP: pervasively silicified, bands/clots of sulphides, chloritized, qtz eyes observed, limonite dusting on surface.
139	2007	TB07053792	grab	A10025437A	534234	5471312	same outcrop as above	totally bleached white, basically baked
140	2007	TB07053792	grab	A10025438A	534234	5471312		same unit, darker greenish grey colouration, looks coherent
141	2007	TB07053792	grab	A10025019A	533998	5471313	Large outcrop, v old trenches	MAFIC
142	2007	TB07053792	grab	A10025020A	533985	5471317	Large outcrop, v old trenches	QFP
143	2007	TB07053792	grab	A10025016A	534079	5471319	Outcrop trending 014	MAFIC
144	2007	TB07053792	grab	A10025442A	534125	5471321		Mafic: coherent, vfg groundmass, greyish green with purple - brownish hue (biotite alteration?), in addition chlorite and silica alteration, sulphide 3% (blebs and disseminations).
145	2007	TB07053792	grab	A10025430A	534468	5471321		
146	2007	TB07053792	grab	A10025429A	534468	5471322		
147	2007	TB07053792	grab	A10025018A	533984	5471325	Large outcrop, v old trenches	MAFIC
148	2007	TB07053792	grab	A10025021A	533972	5471327	Large outcrop, margin of trench	MAFIC
149	2007	TB07053792	grab	A10024971A	533761	5471332		
150	2007	TB07053792	grab	A10024972A	533762	5471332		
151	2007	TB07053792	grab	A10024973A	533763	5471332		
152	2007	TB07053792	grab	A10024974A	533764	5471332		
153	2007	TB07053792	grab	A10024975A	533765	5471332		
154	2007	TB07053792	grab	A10024976A	533766	5471332		
155	2007	TB07053792	grab	A10024977A	533767	5471332		
156	2007	TB07053792	grab	A10024978A	533768	5471332		
157	2007	TB07053792	grab	A10024967A	533775	5471334		
158	2007	TB07053792	grab	A10024968A	533776	5471334		
159	2007	TB07053792	grab	A10024969A	533777	5471334		
160	2007	TB07053792	grab	A10024970A	533778	5471334		
161	2007	TB07053792	grab	A10024964A	533770	5471339		
162	2007	TB07053792	grab	A10024965A	533771	5471339		
163	2007	TB07053792	grab	A10024966A	533772	5471339		
164	2007	TB07053792	grab	A10025441A	534134	5471341		Mafic: coherent, grey - green colouration, vfg, carbonate alteration, chlorite alteration, sulphides occur as disseminations + clots, carbonate appears localized.
165	2007	TB07053792	grab	A10025431A	534288	5471346		Mafic: silicified, sulphides associated with anastomising stringers (2% pyrite), over all creamy/light green colouration.
166	2007	TB07053792	grab	A10025069A	534392	5471346	E side of road	Coherent aphanitic mafic = BASALT
167	2007	TB07053792	grab	A10025424A	534414	5471349		
168	2007	TB07053792	grab	A10024980A	533782	5471350	trench is about 7 m in length and trends 88 degrees	

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
137	2007	TB07053792	grab	A10025017A	534044	5471305	magnetic		Moderate chl, magnetic, weakly silicified, no obvious biotite	Pyrite	2
138	2007	TB07053792	grab	A10025436A	534234	5471312			silicified (strong), chloritized	bands and clots	7
139	2007	TB07053792	grab	A10025437A	534234	5471312				disseminated and in clots	15
140	2007	TB07053792	grab	A10025438A	534234	5471312			sulphides associated with chl veins, occur as anastomosing veins as well as in clots	sulfides dominant in anastomosing irregular veins	9
141	2007	TB07053792	grab	A10025019A	533998	5471313	magnetic		Weak chl, magnetic, weakly silicified, no obvious biotite	Disseminated pyrite	5
142	2007	TB07053792	grab	A10025020A	533985	5471317					
143	2007	TB07053792	grab	A10025016A	534079	5471319	magnetic		Weak chl, magnetic, weakly silicified, no obvious biotite	Pyrite	3
144	2007	TB07053792	grab	A10025442A	534125	5471321			biotite, chlorite, silica	blebs and disseminations	3
145	2007	TB07053792	grab	A10025430A	534468	5471321	non magnetic			disseminated in veins and along	7.5
146	2007	TB07053792	grab	A10025429A	534468	5471322				disseminated and blebs	5
147	2007	TB07053792	grab	A10025018A	533984	5471325	magnetic		Weak chl, magnetic, weakly silicified, no obvious biotite	Pyrite	0.5
148	2007	TB07053792	grab	A10025021A	533972	5471327	magnetic		Weak chl, magnetic, weakly silicified, no obvious biotite	Pyrite	4
149	2007	TB07053792	grab	A10024971A	533761	5471332					
150	2007	TB07053792	grab	A10024972A	533762	5471332					
151	2007	TB07053792	grab	A10024973A	533763	5471332					
152	2007	TB07053792	grab	A10024974A	533764	5471332					
153	2007	TB07053792	grab	A10024975A	533765	5471332					
154	2007	TB07053792	grab	A10024976A	533766	5471332					
155	2007	TB07053792	grab	A10024977A	533767	5471332					
156	2007	TB07053792	grab	A10024978A	533768	5471332					
157	2007	TB07053792	grab	A10024967A	533775	5471334					
158	2007	TB07053792	grab	A10024968A	533776	5471334					
159	2007	TB07053792	grab	A10024969A	533777	5471334					
160	2007	TB07053792	grab	A10024970A	533778	5471334					
161	2007	TB07053792	grab	A10024964A	533770	5471339					
162	2007	TB07053792	grab	A10024965A	533771	5471339					
163	2007	TB07053792	grab	A10024966A	533772	5471339					
164	2007	TB07053792	grab	A10025441A	534134	5471341					
165	2007	TB07053792	grab	A10025431A	534288	5471346	non magnetic		silicified	sulphides associated with anastomosing stringers	2
166	2007	TB07053792	grab	A10025069A	534392	5471346			Gossanous	Highly gossanous, 5 % sulfides	5
167	2007	TB07053792	grab	A10025424A	534414	5471349		0.6m wide		disseminated and along	10
168	2007	TB07053792	grab	A10024980A	533782	5471350					

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
169	2007	TB07053792	grab	A10024981A	533783	5471350		
170	2007	TB07053792	grab	A10024982A	533784	5471350		
171	2007	TB07053792	grab	A10024983A	533785	5471350		
172	2007	TB07053792	grab	A10025440A	534140	5471351		Preferential weathering of surface, fresh surface is strongly silicified, qtz eyes, trace sulphides (disseminated), non magnetic, trace green blebs (chlorite?)
173	2007	TB07053792	grab	A10025194A	534392	5471353	Contact b/w mafic volcanics and conglomerate (NW strike to contact.	Conglomerate: w-mod biotite alteration, 10% sulphides (dissem and clots)
174	2007	TB07053792	grab	A10025195A	534392	5471353		Qtz-eyes present, weak - mod biotite, 4% sulphides (disseminated)
175	2007	TB07053792	grab	A10024960A	533777	5471354		
176	2007	TB07053792	grab	A10024961A	533778	5471354		
177	2007	TB07053792	grab	A10024962A	533779	5471354		
178	2007	TB07053792	grab	A10024963A	533780	5471354		
179	2007	TB07053792	grab	A10024979A	533781	5471360	trench is about 8 m in length and trends 99 degrees	
180	2007	TB07053792	grab	A10024958A	533585	5471364		
181	2007	TB07053792	grab	A10024956A	533783	5471364		
182	2007	TB07053792	grab	A10024957A	533784	5471364		
183	2007	TB07053792	grab	A10024959A	533786	5471364		
184	2007	TB07053792	grab	A10024951A	533779	5471367	trench trends @ 80 deg.	
185	2007	TB07053792	grab	A10024952A	533780	5471367		
186	2007	TB07053792	grab	A10024953A	533781	5471367		
187	2007	TB07053792	grab	A10024954A	533782	5471367		
188	2007	TB07053792	grab	A10024955A	533783	5471367		
189	2007	TB07053792	grab	A10025443A	534119	5471378		Mafic: greyish green, vfg, sulphides occur in blebs and disseminations (2.5%)
190	2007	TB07053792	grab	A10025151A	533836	5471384		MAFIC: Black, vfg, mod scratch, non magnetic, no sulphides.
191	2007	TB07053792	grab	A10025432A	534259	5471388		
192	2007	TB07053792	grab	A10025433A	534259	5471388		
193	2007	TB07053792	grab	A10025434A	534259	5471388		
194	2007	TB07053792	grab	A10025435A	534259	5471388		
195	2007	TB07053792	grab	A10025421A	534472	5471410		
196	2007	TB07053792	grab	A10025022A	533936	5471416	Old trench focussed on a thin (50 cm) shear zone within MAFIC	MAFIC
197	2007	TB07053792	grab	A10025023A	533925	5471426	MAFIC adjacent to A10025022A sample, 15 x 15 m	MAFIC
198	2007	TB07053792	grab	A10025420A	534501	5471426		QFP: siliceous, no visible sulphides.
199	2007	TB07053792	grab	A10025154A	533984	5471433	trench (east end), trench is 10m long x 1m wide	Mafic: med greyish to black, fg matrix, biotite, 5-8% sulphides (dom vfg, subhedral - anhedral morphology), weak - mod magnetic.
200	2007	TB07053792	grab	A10025155A	533989	5471449		Mafic: coherent, mod equigranular, feldspar phenos (2-3mm long), vfg groundmass, weakly magnetic.
201	2007	TB07053792	grab	A10025107A	533588	5471452	western side of ridge near base line	Mafic, vfg, grey green with wk biotite alteration.
202	2007	TB07053792	grab	A10025052A	533910	5471453	N-S trending outcrop, 5 m from CC07TD01	Coherent aphanitic mafic = BASALT

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
169	2007	TB07053792	grab	A10024981A	533783	5471350					
170	2007	TB07053792	grab	A10024982A	533784	5471350					
171	2007	TB07053792	grab	A10024983A	533785	5471350					
172	2007	TB07053792	grab	A10025440A	534140	5471351	non magnetic		chlorite, silicified		
173	2007	TB07053792	grab	A10025194A	534392	5471353			w-mod biotite alteration	disseminations and blebs	10
174	2007	TB07053792	grab	A10025195A	534392	5471353			w-mod biotite alteration	disseminations and blebs	4
175	2007	TB07053792	grab	A10024960A	533777	5471354					
176	2007	TB07053792	grab	A10024961A	533778	5471354					
177	2007	TB07053792	grab	A10024962A	533779	5471354					
178	2007	TB07053792	grab	A10024963A	533780	5471354					
179	2007	TB07053792	grab	A10024979A	533781	5471360					
180	2007	TB07053792	grab	A10024958A	533585	5471364					
181	2007	TB07053792	grab	A10024956A	533783	5471364					
182	2007	TB07053792	grab	A10024957A	533784	5471364					
183	2007	TB07053792	grab	A10024959A	533786	5471364					
184	2007	TB07053792	grab	A10024951A	533779	5471367					
185	2007	TB07053792	grab	A10024952A	533780	5471367					
186	2007	TB07053792	grab	A10024953A	533781	5471367					
187	2007	TB07053792	grab	A10024954A	533782	5471367					
188	2007	TB07053792	grab	A10024955A	533783	5471367					
189	2007	TB07053792	grab	A10025443A	534119	5471378			chlorite	blebs and disseminations	2.5
190	2007	TB07053792	grab	A10025151A	533836	5471384	non magnetic			no sulphides	0
191	2007	TB07053792	grab	A10025432A	534259	5471388	non magnetic		silicified	disseminated and in thin veins	7
192	2007	TB07053792	grab	A10025433A	534259	5471388					
193	2007	TB07053792	grab	A10025434A	534259	5471388					
194	2007	TB07053792	grab	A10025435A	534259	5471388				disseminated and in clots	4.5
195	2007	TB07053792	grab	A10025421A	534472	5471410					
196	2007	TB07053792	grab	A10025022A	533936	5471416		shear zone (50c	Chlorite and pyritization	Bands of mm-thick pyrite parallel to foliation of shear	8
197	2007	TB07053792	grab	A10025023A	533925	5471426	weakly magnetic		Weak chl, weakly magnetic, weakly silicified, no obvious biotite		0
198	2007	TB07053792	grab	A10025420A	534501	5471426			silicified	disseminated	1.5
199	2007	TB07053792	grab	A10025154A	533984	5471433	weak - moderate magnetic		biotite	vfg pyrite (non magnetic, subhedral - anhedral	6
200	2007	TB07053792	grab	A10025155A	533989	5471449	weakly magnetic		biotite (moderate)		6
201	2007	TB07053792	grab	A10025107A	533588	5471452			wk biotite	deseminated pyrite, with cubes in 1mm size.	4
202	2007	TB07053792	grab	A10025052A	533910	5471453	weakly magnetic		Green coloured on fresh surface = chlorite. Possible trace biotite. Weakly magnetic. 1-2 mm bands of carbonate parallel to sulfide blebs.	2 % pyrite	2

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
203	2007	TB07053792	grab	A10025051A	533898	5471458	N-S trending outcrop	Coherent aphanitic mafic = BASALT
204	2007	TB07053792	grab	A10025056A	533983	5471458	N end of a 335 oriented trench	Coherent aphanitic mafic = BASALT
205	2007	TB07053792	grab	A10025056A	533983	5471458		
206	2007	TB07053792	grab	A10025152A	533878	5471464	Face of o/c to north	Host rock is strongly hydrothermally altered, fg matrix, med greyish green matrix, sucrosic texture, scratches with knife, pink vein (~3% massive pyrite), massive pyrite in blebs observed in the host rock (~3%), non magnetic.
207	2007	TB07053792	grab	A10025153A	533878	5471464		Host rock is strongly hydrothermally altered, fg matrix, med greyish green matrix, sucrosic texture, scratches with knife, pink vein (~3% massive pyrite), massive pyrite in blebs observed in the host rock (~3%), non magnetic.
208	2007	TB07053792	grab	A10025054A	533883	5471499	S end of a N-S trench, oriented 015	Coherent aphanitic mafic = BASALT
209	2007	TB07053792	grab	A10025055A	533900	5471530	N-S ridge, 2 x 10 m	Coarse mafic, strongly magnetic = GABBRO
210	2007	TB07053792	grab	A10025417A	534449	5471552		QFP: small qtz eyes, strained (brecciated in areas), iron oxide staining on fracture surfaces, weak-moderate biotite alteration, trace sulphides.
211	2007	TB07053792	grab	A10025412A	534317	5471566	mafic unit along same ridge	mafic unit
212	2007	TB07053792	grab	A10025411A	534321	5471570	blasted out area near QFP mafic contact of subcrop	mafic unit
213	2007	TB07053792	grab	A10025418A	534469	5471573		Proposed contact b/w QFP and mafics.
214	2007	TB07053792	grab	A10025419A	534469	5471573		Proposed contact b/w QFP and mafics.
215	2007	TB07053792	grab	A10025413A	534269	5471595		Possible sedimentary unit, has alternating linear bands of green mineral dominate unit along with a white (weathering) unit that appears to contain biotite alteration? Claire has 6 photos (57 - 62). Both units are quite soft, the greener unit is sulphi
216	2007	TB07053792	grab	A10025414A	534269	5471595		Possible sedimentary unit, has alternating linear bands of green mineral dominate unit along with a white (weathering) unit that appears to contain biotite alteration? Claire has 6 photos (57 - 62). Both units are quite soft, the greener unit is sulphi
217	2007	TB07053792	grab	A10025416A	534242	5471617		Conglomerate, area changes to NW (unit develops a strong flaky fabric that shows strong iron oxide staining)
218	2007	TB07053792	grab	A10025415A	534240	5471619		Conglomerate, area changes to NW (unit develops a strong flaky fabric that shows strong iron oxide staining)
219	2007	TB07053792	grab	A10025410A	534433	5471637		QFP
220	2007	TB07053792	grab	A10025409A	534547	5471651	small outcrop on eastern baseline, only about 5 m away from QFP unit, contact not observed	mafic unit

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
203	2007	TB07053792	grab	A10025051A	533898	5471458	weakly magnetic	weak	Green coloured on fresh surface = chlorite. Possible trace biotite. Weakly magnetic. 1-2 mm bands of carbonate parallel to sulfide blebs.	1-2 % sulfides = po & py. Dissem and fine 1-2 mm blebs.	2
204	2007	TB07053792	grab	A10025056A	533983	5471458	strong magnetic	strong	Moderate chlorite, moderate biotite, trace carbonate - more intense alteration is restricted to areas of well-developed foliation. Strongly magnetic.	3 mm wide veinlets of pyrite occurring as anastomosing network.	2
205	2007	TB07053792	grab	A10025056A	533983	5471458			qtz veins		
206	2007	TB07053792	grab	A10025152A	533878	5471464	non magnetic			blebs	3
207	2007	TB07053792	grab	A10025153A	533878	5471464	non magnetic			blebs	3
208	2007	TB07053792	grab	A10025054A	533883	5471499		strong	Discrete biotite haloes around qtz + green mineral + biotite	2 % pyrite	2
209	2007	TB07053792	grab	A10025055A	533900	5471530	strong magnetic		Strongly magnetic (primary magnetite?)	0	0
210	2007	TB07053792	grab	A10025417A	534449	5471552		weak (not contin	w-mod biotite alteration	trace	0.01
211	2007	TB07053792	grab	A10025412A	534317	5471566	weakly magnetic		quite silicified	disseminated sulfides	12
212	2007	TB07053792	grab	A10025411A	534321	5471570	strong magnetic		silicified, chloritized	disseminated and in sulphide stringers	9
213	2007	TB07053792	grab	A10025418A	534469	5471573				trace	0.01
214	2007	TB07053792	grab	A10025419A	534469	5471573			biotite	disseminated	1.5
215	2007	TB07053792	grab	A10025413A	534269	5471595	non magnetic				
216	2007	TB07053792	grab	A10025414A	534269	5471595				disseminated	1.5
217	2007	TB07053792	grab	A10025416A	534242	5471617			strong silica, weak biotite	disseminated and along fractures	1
218	2007	TB07053792	grab	A10025415A	534240	5471619			strong silica, weak biotite	disseminated and along fractures	1
219	2007	TB07053792	grab	A10025410A	534433	5471637				sulfides	0.5
220	2007	TB07053792	grab	A10025409A	534547	5471651				disseminated sulfides	1

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
221	2007	TB07053792	grab	A10025106A	533594	5471692	near QFP and Mafic contact. The mafics on western side of ridge.	VFG, greenish greys with purple. Non magnetic.
222	2007	TB07053792	grab	A10025001A	533742	5471696		Mafic, aphanitic
223	2007	TB07053792	grab	A10025407A	534084	5471734		QFP: mod biot alteration, trace sulphides (dissem),
224	2007	TB07053792	grab	A10025408A	534152	5471748	just below above outcrop	mafic unit
225	2007	TB07053792	grab	A10025196A	534117	5472610	outcrop on side of road showing shear?	?mafic unit
226	2007	TB07090635	Trench 07-1	A10027201A	534385	5470156	mod biotite; tr -1% py	
227	2007	TB07090635	Trench 07-1	A10027202A	534363	5470168	str biotite; 0-2% py	
228	2007	TB07090635	Trench 07-1	A10027226A	534268	5470171	mod biotite; 3-4% py	
229	2007	TB07090635	Trench 07-1	A10027222A	534280	5470173	mod biotite; 7-8% py	
230	2007	TB07090635	Trench 07-1	A10027223A	534278	5470175	mod biotite; 1% py	
231	2007	TB07090635	Trench 07-1	A10027227A	534257	5470177	str biotite; 3-5% py	
232	2007	TB07090635	Trench 07-1	A10027224A	534277	5470178	mod biotite; 5% py	
233	2007	TB07090635	Trench 07-1	A10027204A	534354	5470178	wk biotite; silic carb in shear zone 3% py diss	
234	2007	TB07090635	Trench 07-1	A10027203A	534361	5470178	mod biotite; 0.5-1%py diss	
235	2007	TB07090635	Trench 07-1	A10027228A	534251	5470179	mod biotite; calc silicate?; 2-3% py	
236	2007	TB07090635	Trench 07-1	A10027221A	534283	5470179	wk - mod biotite; 0-1% py	
237	2007	TB07090635	Trench 07-1	A10027206A	534329	5470179	str biotite; up to 2% py	
238	2007	TB07090635	Trench 07-1	A10027207A	534324	5470180	Mg qfp; tr py; wk ser	
239	2007	TB07090635	Trench 07-1	A10027229A	534243	5470181	mod biotite; calc silicate? 3% py	
240	2007	TB07090635	Trench 07-1	A10027220A	534289	5470181	wk biotite; mg mafic; tr-1% py	
241	2007	TB07090635	Trench 07-1	A10027209A	534315	5470181	str biotite; 5% py	
242	2007	TB07090635	Trench 07-1	A10027210A	534311	5470182	str biotite 10-20% py	
243	2007	TB07090635	Trench 07-1	A10027225A	534272	5470183	str biotite; 10% py; replacement ?	
244	2007	TB07090635	Trench 07-1	A10027212A	534304	5470183	mod biotite; 8%py	
245	2007	TB07090635	Trench 07-1	A10027217A	534292	5470184	str biotite; med sil post biot; 12-15% py	
246	2007	TB07090635	Trench 07-1	A10027218A	534292	5470184	str biotite; s sil qtz vein 15-18% py	
247	2007	TB07090635	Trench 07-1	A10027219A	534292	5470184	wk biotite; s sil 5-8% py	
248	2007	TB07090635	Trench 07-1	A10027211A	534309	5470184	wk - mod biotite 2-5% py	
249	2007	TB07090635	Trench 07-1	A10027208A	534319	5470184	str biotite 2-4% diss py	
250	2007	TB07090635	Trench 07-1	A10027205A	534343	5470185	wk biotite; mg ofp wk ser; tr py	
251	2007	TB07090635	Trench 07-1	A10027215A	534297	5470186	str biotite; calc silicate bands?; 5% py	
252	2007	TB07090635	Trench 07-1	A10027214A	534299	5470186	mod biotite; 5% py; carb stringers?	
253	2007	TB07090635	Trench 07-1	A10027213A	534302	5470187	mod biotite; 5% py	
254	2007	TB07090635	Trench 07-1	A10027216A	534294	5470188	mod biotite; silicified; 5-10% py	
255	2007	TB07090635	Trench 07-1	E816601	534264	5470783		Mafic Volcanic
256	2007	TB07090635	Trench 07-2	A10027237A	534514	5470620	intense biotite; 2-3% py	
257	2007	TB07090635	Trench 07-2	A10027238A	534514	5470622	intense biotite; 2-3% py	
258	2007	TB07090635	Trench 07-2	A10027239A	534513	5470625	intense biotite; 2% py	
259	2007	TB07090635	Trench 07-2	A10027240A	534507	5470629	intense biotite; 10% py	
260	2007	TB07090635	Trench 07-2	A10027241A	534504	5470632	str biotite; sedimentary chl?; 20-40% py	
261	2007	TB07090635	Trench 07-2	A10027242A	534501	5470634	str biotite; 10-15% py	
262	2007	TB07090635	Trench 07-2	A10027243A	534499	5470636	str biotite; 10-15% py	
263	2007	TB07090635	Trench 07-2	A10027244A	534497	5470638	str biotite; mod chl; 10% py	
264	2007	TB07090635	Trench 07-2	A10027253A	534473	5470639	mod biotite; wk chlorite; 5-7% py	
265	2007	TB07090635	Trench 07-2	A10027245A	534495	5470639	Intense biotite; mod chl.; 5-10% py	
266	2007	TB07090635	Trench 07-2	A10027246A	534492	5470640	str biotite; mod silic. patches; some chl; 10-12% py	
267	2007	TB07090635	Trench 07-2	A10027247A	534489	5470641	str biotite; some silic patches; 5-10% py	
268	2007	TB07090635	Trench 07-2	A10027252A	534478	5470643	mod biotite; wk chl.; 5% py	
269	2007	TB07090635	Trench 07-2	A10027251A	534480	5470643	mod biotite; wk chlorite; 5-6% py	
270	2007	TB07090635	Trench 07-2	A10027250A	534482	5470643	mod biotite; chlorite matrix; 6-8% py	

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
221	2007	TB07053792	grab	A10025106A	533594	5471692	non magnetic		Chlorite with weak biotite.	pyrite	2
222	2007	TB07053792	grab	A10025001A	533742	5471696				no % provided	
223	2007	TB07053792	grab	A10025407A	534084	5471734			moderate biotite	Disseminated pyrite	0.01
224	2007	TB07053792	grab	A10025408A	534152	5471748	moderate magnetic		?carbonate (quite soft)	disseminated sulfides associated	0.01
225	2007	TB07053792	grab	A10025196A	534117	5472610					
226	2007	TB07090635	Trench 07-1	A10027201A	534385	5470156					1
227	2007	TB07090635	Trench 07-1	A10027202A	534363	5470168					2
228	2007	TB07090635	Trench 07-1	A10027226A	534268	5470171					4
229	2007	TB07090635	Trench 07-1	A10027222A	534280	5470173					8
230	2007	TB07090635	Trench 07-1	A10027223A	534278	5470175					1
231	2007	TB07090635	Trench 07-1	A10027227A	534257	5470177					5
232	2007	TB07090635	Trench 07-1	A10027224A	534277	5470178					5
233	2007	TB07090635	Trench 07-1	A10027204A	534354	5470178					3
234	2007	TB07090635	Trench 07-1	A10027203A	534361	5470178					1
235	2007	TB07090635	Trench 07-1	A10027228A	534251	5470179					3
236	2007	TB07090635	Trench 07-1	A10027221A	534283	5470179					1
237	2007	TB07090635	Trench 07-1	A10027206A	534329	5470179					2
238	2007	TB07090635	Trench 07-1	A10027207A	534324	5470180					0
239	2007	TB07090635	Trench 07-1	A10027229A	534243	5470181					3
240	2007	TB07090635	Trench 07-1	A10027220A	534289	5470181					1
241	2007	TB07090635	Trench 07-1	A10027209A	534315	5470181					5
242	2007	TB07090635	Trench 07-1	A10027210A	534311	5470182					20
243	2007	TB07090635	Trench 07-1	A10027225A	534272	5470183					10
244	2007	TB07090635	Trench 07-1	A10027212A	534304	5470183					8
245	2007	TB07090635	Trench 07-1	A10027217A	534292	5470184					15
246	2007	TB07090635	Trench 07-1	A10027218A	534292	5470184					18
247	2007	TB07090635	Trench 07-1	A10027219A	534292	5470184					8
248	2007	TB07090635	Trench 07-1	A10027211A	534309	5470184					5
249	2007	TB07090635	Trench 07-1	A10027208A	534319	5470184					4
250	2007	TB07090635	Trench 07-1	A10027205A	534343	5470185					0
251	2007	TB07090635	Trench 07-1	A10027215A	534297	5470186					5
252	2007	TB07090635	Trench 07-1	A10027214A	534299	5470186					5
253	2007	TB07090635	Trench 07-1	A10027213A	534302	5470187					5
254	2007	TB07090635	Trench 07-1	A10027216A	534294	5470188					10
255	2007	TB07090635	Trench 07-1	E816601	534264	5470783		strong fract - fol	mod chl wk bio		3
256	2007	TB07090635	Trench 07-2	A10027237A	534514	5470620					3
257	2007	TB07090635	Trench 07-2	A10027238A	534514	5470622					3
258	2007	TB07090635	Trench 07-2	A10027239A	534513	5470625					2
259	2007	TB07090635	Trench 07-2	A10027240A	534507	5470629					10
260	2007	TB07090635	Trench 07-2	A10027241A	534504	5470632					40
261	2007	TB07090635	Trench 07-2	A10027242A	534501	5470634					15
262	2007	TB07090635	Trench 07-2	A10027243A	534499	5470636					15
263	2007	TB07090635	Trench 07-2	A10027244A	534497	5470638					10
264	2007	TB07090635	Trench 07-2	A10027253A	534473	5470639					7
265	2007	TB07090635	Trench 07-2	A10027245A	534495	5470639					10
266	2007	TB07090635	Trench 07-2	A10027246A	534492	5470640					12
267	2007	TB07090635	Trench 07-2	A10027247A	534489	5470641					10
268	2007	TB07090635	Trench 07-2	A10027252A	534478	5470643					5
269	2007	TB07090635	Trench 07-2	A10027251A	534480	5470643					6
270	2007	TB07090635	Trench 07-2	A10027250A	534482	5470643					8

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
271	2007	TB07090635	Trench 07-2	A10027249A	534484	5470643	mod biotite; silicious; 10-15% py	
272	2007	TB07053792	Trench 07-2	A10025101A	534485	5470644	Conglomerate, trending 035, clastic rock type. 042/70 SE (possible bedding or structural stetching), 018/73 SE fabric cutting through main body (oblique to main body).	See sample info.
273	2007	TB07090635	Trench 07-2	A10027248A	534487	5470644	str biotite; some silic patches; 10-12% py	
274	2007	TB07090635	Trench 07-2	A10027254A	534466	5470645	mod biotite; mod chl; 1% py	
275	2007	TB07090635	Trench 07-2	A10027256A	534441	5470646	mod biotite; 1-2% py	
276	2007	TB07090635	Trench 07-2	A10027255A	534446	5470646	mod biotite; wk chlorite; silicious; 2% py	
277	2007	TB07090635	Trench 07-2A	A10027230A	534367	5470692	mod biotite; wk sericite; 5% py	
278	2007	TB07090635	Trench 07-2A	A10027231A	534369	5470696	wk to mod biotite; chl. veinlets; 2-3% py	
279	2007	TB07090635	Trench 07-2A	A10027233A	534378	5470700	wk biotite; mod sericite; str foliation; 5% py	
280	2007	TB07090635	Trench 07-2A	A10027232A	534372	5470701	mod biotite; chl veinlets; 10% py	
281	2007	TB07090635	Trench 07-2A	A10027234A	534382	5470701	wk biotite; wk to mod sericite; wk fol.; 3-5% diss py	
282	2007	TB07090635	Trench 07-2A	A10027235A	534387	5470702	wk biotite; wk chl; wk-tr ser; 3% py; wk fol @ 030/80E	
283	2007	TB07090635	Trench 07-2A	A10027236A	534389	5470706	wk biotite; wk chl; mod sil; 3-4% py	
284	2007	TB07090635	Trench 07-2A	A10027257A	534392	5470707	mod biotite; wk chl; str silic.; 2-10% py	
285	2007	TB07090635	Trench 07-2A	A10027258A	534403	5470722	str biotite; silicious; 1-2% py	
286	2007	TB07090635	Trench 07-3	A10027272A	534359	5470997	str biotite; wk chl; tr to 2% py	
287	2007	TB07090635	Trench 07-3	A10027274A	534355	5470998	wk biotite; 1-2% py	
288	2007	TB07090635	Trench 07-3	A10027271A	534364	5470999	wk-mod biotite; tr py	
289	2007	TB07090635	Trench 07-3	A10027273A	534358	5471001	mod biotite; mod chl; tr py	
290	2007	TB07090635	Trench 07-3	A10027276A	534348	5471002	mod biotite; tr py	
291	2007	TB07090635	Trench 07-3	A10027275A	534352	5471003	mod biotite; 1% py	
292	2007	TB07090635	Trench 07-3	A10027286A	534301	5471005	mod biotite; 3% py	
293	2007	TB07090635	Trench 07-3	A10027277A	534348	5471006	str biotite; mod chl; 2% py	
294	2007	TB07090635	Trench 07-3	A10027279A	534341	5471007	mod biotite; 2% py	
295	2007	TB07090635	Trench 07-3	A10027284A	534317	5471008	wk biotite; tr py	
296	2007	TB07090635	Trench 07-3	A10027283A	534323	5471008	str biotite; 2-5% py	
297	2007	TB07090635	Trench 07-3	A10027282A	534329	5471008	str biotite; mod chl; 10% py	
298	2007	TB07090635	Trench 07-3	A10027285A	534305	5471009	wk biotite; 10% py	
299	2007	TB07090635	Trench 07-3	A10027280A	534336	5471009	mod biotite; 0-2% py	
300	2007	TB07090635	Trench 07-3	A10027278A	534346	5471009	str biotite; 0-2% py	
301	2007	TB07090635	Trench 07-3	A10027281A	534332	5471011	mod biotite; 0-2% py	
302	2007	TB07090635	Trench 07-3A	A10027267A	534440	5470970	strong biotite; wk chl; 1% py	
303	2007	TB07090635	Trench 07-3A	A10027269A	534434	5470971	intense biotite; tr py; pos. qfp	
304	2007	TB07090635	Trench 07-3A	A10027268A	534437	5470971	intense biotite; tr py; pos. qfp	
305	2007	TB07090635	Trench 07-3A	A10027266A	534441	5470976	str biotite; wk chl; 1% py	
306	2007	TB07090635	Trench 07-3A	A10027265A	534447	5470979	Mod biotite; wk chl; tr py	
307	2007	TB07090635	Trench 07-3A	A10027270A	534417	5470982	mod biotite; tr py	
308	2007	TB07090635	Trench 07-3B	A10027260A	534472	5470992	Mod biotite; 2-5% py	
309	2007	TB07090635	Trench 07-3B	A10027264A	534458	5470993	mod biotite; mod chl; siliceous; 10-15% py	
310	2007	TB07090635	Trench 07-3B	A10027263A	534462	5470994	str biotite; wk chl; 10% py	
311	2007	TB07090635	Trench 07-3B	A10027261A	534465	5470994	Mod biotite; wk chl; 2-5% py	
312	2007	TB07090635	Trench 07-3B	A10027259A	534475	5470996	Mod biotite; 5% py	
313	2007	TB07090635	Trench 07-3B	A10027262A	534461	5470998	Mod biotite; wk chl; 2-5% py	

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
271	2007	TB07090635	Trench 07-2	A10027249A	534484	5470643					15
272	2007	TB07053792	Trench 07-2	A10025101A	534485	5470644				Pyrite	2
273	2007	TB07090635	Trench 07-2	A10027248A	534487	5470644					12
274	2007	TB07090635	Trench 07-2	A10027254A	534466	5470645					1
275	2007	TB07090635	Trench 07-2	A10027256A	534441	5470646					2
276	2007	TB07090635	Trench 07-2	A10027255A	534446	5470646					2
277	2007	TB07090635	Trench 07-2A	A10027230A	534367	5470692					5
278	2007	TB07090635	Trench 07-2A	A10027231A	534369	5470696					3
279	2007	TB07090635	Trench 07-2A	A10027233A	534378	5470700					5
280	2007	TB07090635	Trench 07-2A	A10027232A	534372	5470701					10
281	2007	TB07090635	Trench 07-2A	A10027234A	534382	5470701					5
282	2007	TB07090635	Trench 07-2A	A10027235A	534387	5470702					3
283	2007	TB07090635	Trench 07-2A	A10027236A	534389	5470706					4
284	2007	TB07090635	Trench 07-2A	A10027257A	534392	5470707					10
285	2007	TB07090635	Trench 07-2A	A10027258A	534403	5470722					2
286	2007	TB07090635	Trench 07-3	A10027272A	534359	5470997					2
287	2007	TB07090635	Trench 07-3	A10027274A	534355	5470998					2
288	2007	TB07090635	Trench 07-3	A10027271A	534364	5470999					0
289	2007	TB07090635	Trench 07-3	A10027273A	534358	5471001					0
290	2007	TB07090635	Trench 07-3	A10027276A	534348	5471002					0
291	2007	TB07090635	Trench 07-3	A10027275A	534352	5471003					1
292	2007	TB07090635	Trench 07-3	A10027286A	534301	5471005					3
293	2007	TB07090635	Trench 07-3	A10027277A	534348	5471006					2
294	2007	TB07090635	Trench 07-3	A10027279A	534341	5471007					2
295	2007	TB07090635	Trench 07-3	A10027284A	534317	5471008					0
296	2007	TB07090635	Trench 07-3	A10027283A	534323	5471008					5
297	2007	TB07090635	Trench 07-3	A10027282A	534329	5471008					10
298	2007	TB07090635	Trench 07-3	A10027285A	534305	5471009					10
299	2007	TB07090635	Trench 07-3	A10027280A	534336	5471009					2
300	2007	TB07090635	Trench 07-3	A10027278A	534346	5471009					2
301	2007	TB07090635	Trench 07-3	A10027281A	534332	5471011					2
302	2007	TB07090635	Trench 07-3A	A10027267A	534440	5470970					1
303	2007	TB07090635	Trench 07-3A	A10027269A	534434	5470971					0
304	2007	TB07090635	Trench 07-3A	A10027268A	534437	5470971					0
305	2007	TB07090635	Trench 07-3A	A10027266A	534441	5470976					1
306	2007	TB07090635	Trench 07-3A	A10027265A	534447	5470979					0
307	2007	TB07090635	Trench 07-3A	A10027270A	534417	5470982					0
308	2007	TB07090635	Trench 07-3B	A10027260A	534472	5470992					5
309	2007	TB07090635	Trench 07-3B	A10027264A	534458	5470993					15
310	2007	TB07090635	Trench 07-3B	A10027263A	534462	5470994					10
311	2007	TB07090635	Trench 07-3B	A10027261A	534465	5470994					5
312	2007	TB07090635	Trench 07-3B	A10027259A	534475	5470996					5
313	2007	TB07090635	Trench 07-3B	A10027262A	534461	5470998					5

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Outcrop Description	Geology
314	2007	TB07053792	Trench 07-4	A10025062A	534425	5470106	Prospector trench - W side	Coherent aphanitic mafic = BASALT
315	2007	TB07090635	Trench 07-4	E816605	534424	5470927	with calc? sil bands	Mafic Volcanic
316	2007	TB07090635	Trench 07-4	E816604	534417	5470941		Mafic Volcanic
317	2007	TB07090635	Trench 07-4	A10027287A	534422	5471299	str biotite; very silicious 5-10% py	
318	2007	TB07090635	Trench 07-4	A10027288A	534422	5471302	mod biotite; possible qfp; 0-2% py	
319	2007	TB07090635	Trench 07-4	A10027289A	534422	5471306	str biotite; 5-10% py	
320	2007	TB07090635	Trench 07-4	A10027290A	534424	5471310	wk biotite; tr py	
321	2007	TB07053792	Trench 07-4	A10025428A	534423	5471316		
322	2007	TB07090635	Trench 07-4	A10027291A	534418	5471318	mod biotite; wk chl; silic; 8% py	
323	2007	TB07090635	Trench 07-4	A10027292A	534420	5471320	mod biotite; wk chl.; silic; 10% py	
324	2007	TB07090635	Trench 07-4	A10027293A	534421	5471324	mod biotite; wk chl; 5-10% py	
325	2007	TB07053792	Trench 07-4	A10025422A	534418	5471325		
326	2007	TB07053792	Trench 07-4	A10025423A	534420	5471325		
327	2007	TB07090635	Trench 07-4	A10027294A	534420	5471330	str biotite; 5% py	
328	2007	TB07053792	Trench 07-4	A10025425A	534419	5471333		
329	2007	TB07090635	Trench 07-4	A10027295A	534427	5471337	mod-str biotite; silic; 20% py	
330	2007	TB07090635	Trench 07-4	A10027296A	534418	5471342	str biotite; wk chl; 2-5% py	
331	2007	TB07090635	Trench 07-4	A10027297A	534418	5471344	wk biotite; wk cly; 2-5% py	
332	2007	TB07090635	Trench 07-4B	A10027299A	534298	5471361	str biotite; 0-2% py	
333	2007	TB07090635	Trench 07-4B	A10027301A	534312	5471364	str biotite; wk chlorite; 3-5% py	
334	2007	TB07090635	Trench 07-4B	A10027300A	534302	5471367	str biotite; 2-5% py	
335	2007	TB07090635	Trench 07-4B	A10027302A	534313	5471368	str biotite; 5-10% py	
336	2007	TB07090635	Trench 07-4B	A10027303A	534316	5471372	str biotite; 3% py	
337	2007	TB07090635	Trench 07-4C	E816602	534320	5470820		Mafic Volcanic
338	2007	TB07090635	Trench 07-4C	E816606	534437	5470834		mafic tuff
339	2007	TB07090635	Trench 07-4C	E816603	534430	5470872		conglom with QFP mafic fags
340	2007	TB07090635	Trench 07-4C	A10027304A	534319	5471423	str biotite; wk chl.; 2% py	
341	2007	TB07090635	Trench 07-4C	A10027305A	534311	5471425	str biotite; mod chl; mod sericite; 3-5% py	
342	2007	TB07090635	Trench 07-4C	A10027306A	534308	5471430	str biotite; 5% py	
343	2007	TB07090635	Trench 07-4C	A10027307A	534302	5471438	mod biotite; wk chl.; tr py	
344	2007	TB07090635	Trench 07-4C	A10027308A	534297	5471439	mod biotite; wk chl; 2% py	
345	2007	TB07090635	Trench 07-4C	A10027309A	534293	5471441	intense biotite; mod chl.; 2-4% py	
346	2007	TB07090635	Trench 07-4C	A10027310A	534289	5471443	mod biotite; wk chl.; tr py	
347	2007	TB07090635	Trench 07-4B	A10027298A	534297	5471353	str biotite; mod chl; 2-3% py	

	Year	COA Number	Sample Type	Sample Number	Easting	Northing	Magnetism	structure	Alteration	Mineralization	Sulphide %
314	2007	TB07053792	Trench 07-4	A10025062A	534425	5470106	non magnetic		Barren mafic, non-magnetic, intense carbonate alteration, stringer epidote veins, no silicification. Rare mm-scale bands of pyrite, but not observed in sample collected for analysis.	0	0
315	2007	TB07090635	Trench 07-4	E816605	534424	5470927			float - sub strong bio	py units- lams + dissem	20
316	2007	TB07090635	Trench 07-4	E816604	534417	5470941			biotite		3
317	2007	TB07090635	Trench 07-4	A10027287A	534422	5471299					10
318	2007	TB07090635	Trench 07-4	A10027288A	534422	5471302					2
319	2007	TB07090635	Trench 07-4	A10027289A	534422	5471306					10
320	2007	TB07090635	Trench 07-4	A10027290A	534424	5471310					0
321	2007	TB07053792	Trench 07-4	A10025428A	534423	5471316	non magnetic	5cm wide fracture sets		sulphides occur as disseminations and along	5
322	2007	TB07090635	Trench 07-4	A10027291A	534418	5471318					8
323	2007	TB07090635	Trench 07-4	A10027292A	534420	5471320					10
324	2007	TB07090635	Trench 07-4	A10027293A	534421	5471324					10
325	2007	TB07053792	Trench 07-4	A10025422A	534418	5471325				3% in groundmass, 9% in vein	12
326	2007	TB07053792	Trench 07-4	A10025423A	534420	5471325				blebs and disseminated	4.5
327	2007	TB07090635	Trench 07-4	A10027294A	534420	5471330					5
328	2007	TB07053792	Trench 07-4	A10025425A	534419	5471333	strongly magnetic				3.5
329	2007	TB07090635	Trench 07-4	A10027295A	534427	5471337					20
330	2007	TB07090635	Trench 07-4	A10027296A	534418	5471342					5
331	2007	TB07090635	Trench 07-4	A10027297A	534418	5471344					5
332	2007	TB07090635	Trench 07-4B	A10027299A	534298	5471361					2
333	2007	TB07090635	Trench 07-4B	A10027301A	534312	5471364					5
334	2007	TB07090635	Trench 07-4B	A10027300A	534302	5471367					5
335	2007	TB07090635	Trench 07-4B	A10027302A	534313	5471368					10
336	2007	TB07090635	Trench 07-4B	A10027303A	534316	5471372					3
337	2007	TB07090635	Trench 07-4C	E816602	534320	5470820			mod bio; wk gossan		3
338	2007	TB07090635	Trench 07-4C	E816606	534437	5470834			wk- mod bio	py on fract	4
339	2007	TB07090635	Trench 07-4C	E816603	534430	5470872			wk-mod pervasive bio	diss blebby py near QFP dyke	3
340	2007	TB07090635	Trench 07-4C	A10027304A	534319	5471423					2
341	2007	TB07090635	Trench 07-4C	A10027305A	534311	5471425					5
342	2007	TB07090635	Trench 07-4C	A10027306A	534308	5471430					5
343	2007	TB07090635	Trench 07-4C	A10027307A	534302	5471438					0
344	2007	TB07090635	Trench 07-4C	A10027308A	534297	5471439					2
345	2007	TB07090635	Trench 07-4C	A10027309A	534293	5471441					4
346	2007	TB07090635	Trench 07-4C	A10027310A	534289	5471443					0
347	2007	TB07090635	Trench 07-4B	A10027298A	534297	5471353					3

APPENDIX II
Diamond Drill Logs

Hole_ID TC07-01
Project Thundercloud
X 534370
Y 5471265
z 444
Azimuth 360
Dip -45
Total Length 264.3
Location
Grid
Claim 1162726
NTS Mapsheet 052F07

Hole Type Core
Survey Type Acid
Hole Diameter NQ2
Drill Operator G&O Contractors
Drill Rig Longyear 38
Grid East
Grid North
Start Date 26-Oct-07
End Date 11-Mar-07
Logged by Campbell/Turner
Sampled by Campbell/Turner
Relogged by

Purpose/Comments:

Test eastern extension of northern-most chargeability anomaly. TD @ 264.11m

TC07-01 summary
0 - 6.1 Casing
6.1 - 82.8 Basalt
59.0 - 66.0 (6 - 15% py)
63.8 - 64.7 (35 - 40% py in strain zone)
82.8 - 87.0 Mafic fragmental
85.5 - 87.0 (5 - 10% py, mod bio & cal, weak sil)
87.0 - 92.9 Basalt
92.9 - 113.7 QFP flow with mafic matrix (trace sulphides)
113.7 - 120.0 Conglomerate (mod bio & sil, weak cal & chl)
113.7 - 118.7 (20 - 40% py in strain zone)
118.7 - 120.0 (7 - 10% py)
120.0 - 133.5 Basalt
133.5 - 142.5 Mafic fragmental
139.5 - 140.5 (15 - 25% py)
142.5 - 145.7 Conglomerate
144.0 - 145.7 (10 - 15% py)
145.7 - 167.3 Basalt (160 - 166 = mod bio, sil, chl)
153.5 - 153.7 (20 - 25% py), 160.1 - 161.2 (15 - 20% py), 162.5 - 164.2 (15 - 20% py), 165.9 - 166.4 (25 - 30% py)
167.3 - 174.5 Conglomerate (mod bio, sil, chl), ~3-5% py + po
174.5 - 187.0 QFP (trace sulphides)
187.0 - 192.9 Transitional zone (tr py)
192.9 - 212.5 Conglomerate (mod sil + chl, tr to 3%, up to 7%)
212.5 - 230.7 Mafic (mod chl, bio, tr to 4%)
230.7 - 264.2 Hornblendite (mod chl, 1-2%, locally up to

Survey Data:

Depth	Azimuth	Dip
137.0	0	-51.0



20%)

From (m)	To (m)	Geological Description Formation Name	Litho Code	Litho Description	Field N	FROM	TO	INT. (m)	Au ICP ppm	Au Assay ppm	Ag ICP ppm	Ag Assay ppm	As ICP ppm	Au Plot ppm	As Plot ppm
0.00	6.10	Unrecovered 0.0 #Name?	OB	Casing/Overburden											
6.10	82.80	Basalt: Undifferentiated mafic, dominantly dark greyish green colouration, sporadic areas contain low concentrations of chlorite blebs (sub mm width, ~1-2 mm length). 63.8 64.9 #Name? Transitional boundaries into moderately strained interval (see structure and mineralized sections for details). Foliation is moderately developed in this interval and typically is 35-45 deg TCA. Commonly sulphides (dominantly pyrite) is concentrated along the foliation planes. 63.8 64.9 #Name? Strained interval, increased sulphide concentration along foliation plane (foliation varies b/w 35 - 45 deg TCA).	1	Mafic Volcanic (undifferentiated)	E589501	6.10	9.00	2.90	0.011				5.1	0.011	
					E589502	9.00	12.00	3.00	0.004				1.6	0.004	
					E589503	12.00	15.00	3.00	0.004				1.3	0.004	
					E589504	15.00	18.00	3.00	0.005				2.2	0.005	
					E589506	18.00	21.00	3.00	0.121				3.3	0.121	
					E589507	21.00	24.00	3.00	0.032				2.5	0.032	
					E589508	24.00	27.00	3.00	0.009				3.3	0.009	
					E589509	27.00	30.00	3.00	0.017				2.6	0.017	
					E589510	30.00	33.00	3.00	0.006				4.5	0.006	
					E589511	33.00	36.00	3.00	0.021				4.1	0.021	
					E589512	36.00	38.00	2.00	0.051				3	0.051	
					E589513	38.00	40.00	2.00	0.02				2.9	0.02	
					E589514	40.00	42.00	2.00	0.046				1.7	0.046	
					E589515	42.00	44.00	2.00	0.04				2.1	0.04	
					E589516	44.00	46.00	2.00	0.039				4.6	0.039	
					E589517	46.00	48.00	2.00	0.082				4.3	0.082	
					E589518	48.00	50.00	2.00	0.021				4.4	0.021	
					E589519	50.00	52.00	2.00	0.019				3.3	0.019	
					E589520	52.00	54.00	2.00	0.082				3.6	0.082	
					E589521	54.00	56.00	2.00	0.038				4.9	0.038	
					E589522	56.00	57.75	1.75	0.297				6.2	0.297	
					E589523	57.75	58.75	1.00	0.237				7.5	0.237	
					E589524	58.75	59.75	1.00	0.124				5.5	0.124	
					E589525	59.75	60.75	1.00	0.116				9.3	0.116	
					E589526	60.75	61.75	1.00	0.052				8.4	0.052	
					E589527	61.75	62.75	1.00	0.03				10.8	0.03	
					E589528	62.75	63.75	1.00	0.119				19.6	0.119	
					E589529	63.75	64.85	1.10	0.592				40	0.592	
					E589530	64.85	66.00	1.15	0.14				14.7	0.14	
					E589532	66.00	68.00	2.00	0.065				12.7	0.065	
					E589533	68.00	70.00	2.00	0.02				6.6	0.02	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code	Litho Description				ppm	ppm	ppm	ppm	ppm	ppm	ppm
82.80	87.00	3d Fragmental (mafic matrix) Mafic fragmental unit: Transitional contact b/w overlying basalt and mafic fragmental unit. Clasts appear monolithic and vary in size up to cm-scale. Interval b/w 86.5-87.0m is strongly altered and brecciated by calcite veins (sulphide concentrations up to ~10%).	E589534	70.00	72.00	2.00	0.101				6.9	0.101	
			E589535	72.00	74.00	2.00	0.052				8.8	0.052	
			E589536	74.00	76.00	2.00	0.158				10.5	0.158	
			E589537	76.00	76.00	2.00	0.002				1.6	0.002	
			E589538	76.00	78.40	2.40	0.014				11.2	0.014	
			E589539	78.40	80.80	2.40	0.009				11.3	0.009	
			E589540	80.80	82.80	2.00	0.006				10.1	0.006	
			E589541	82.80	84.80	2.00	0.013				7.8	0.013	
			E589542	84.80	86.50	1.70	0.018				10	0.018	
			E589543	86.50	87.00	0.50	0.024				15.5	0.024	
87.00	92.90	1 Mafic Volcanic (undifferentiated) Basalt: Dark green, fragments not distinctly observed in interval. Lower contact obscured by white - pink calcite veins. 88.0 89.0 #Name? nyhrcjutgcmgm	E589544	87.00	89.00	2.00	0.007				5.6	0.007	
			E589545	89.00	91.00	2.00	0.032				5	0.032	
			E589546	91.00	92.90	1.90	0.021				10.5	0.021	
92.90	113.75	2a QFP debris flow/breccia QFP debris flow: patchy appearance in sections, moderate - strong sericite alteration (selective alteration of previous minerals, possibly feldspar), angular clasts (heterolithic (QFP & strongly chloritized/pyritized fragments) observed. Matrix b/w ~106 - 133.75m is dark brown - black and contains moderate to strong biotite alteration. Lower contact at ~113.75m is transitional with conglomerate.	E589547	92.90	95.00	2.10	0.014				17.1	0.014	
			E589548	95.00	97.00	2.00	0.003				8.9	0.003	
			E589549	97.00	99.00	2.00	0.003				15.4	0.003	
			E589550	99.00	101.00	2.00	0.029				14	0.029	
			E589551	101.00	103.00	2.00	0.008				5	0.008	
			E589552	103.00	105.00	2.00	0.004				6.8	0.004	
			E589553	105.00	107.00	2.00	0.004				10.1	0.004	
			E589554	107.00	109.00	2.00	0.014				10.8	0.014	
			E589555	109.00	111.40	2.40	0.012				18	0.012	
			E589556	111.40	113.70	2.30	0.012				25.7	0.012	
			E589557	113.70	114.70	1.00	0.102				280	0.102	
113.75	120.05	3a Conglomerate Conglomerate: Upper contact is transitional (clasts in transitional contact are aligned and elongated in strain zone). Clasts of QFP (up to 10cm wide+) are sporadically observed in interval (qtz eyes observed in clasts). Some of the clasts are rounded, which may support a conglomerate origin. The interval is dominantly matrix supported. The matrix composition appears mafic (no qtz eyes observed in matrix). The interval is strongly altered and moderately strained (foliation is typically b/w 40-60 deg TCA). Sulphides	E589558	114.70	115.70	1.00	0.076				216	0.076	
			E589559	115.70	116.70	1.00	0.064				175	0.064	
			E589560	116.70	117.70	1.00	0.242				188	0.242	
			E589561	117.70	118.70	1.00	0.291				167.5	0.291	
			E589562	118.70	120.00	1.30	0.15				70.5	0.15	
			E589564	120.00	122.00	2.00	0.064				17.5	0.064	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)				ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm				ppm	ppm	ppm	ppm	ppm	ppm	ppm

concentrations are elevated along the foliation planes. QFP clasts are less abundant with depth. Transitional lower contact at ~120.05m.

120.05	133.45	3 Sediment	E589565	122.00	124.00	2.00	0.042				10.4	0.042	
		Meta sediment: dark greyish green, vfg, undifferentiated. A patch of relatively discreet blob composed of calcite, pyrite, and minor mica observed @ 129.8m. Transitional lower contact (contact proposed where first interpreted pseudomorphed "clast" observed.	E589566	124.00	126.00	2.00	0.087				12.8	0.087	
			E589567	126.00	128.00	2.00	0.075				12.5	0.075	
			E589568	128.00	130.00	2.00	0.018				13.4	0.018	
			E589569	130.00	132.00	2.00	0.01				13.1	0.01	
			E589570	132.00	134.00	2.00	0.013				9	0.013	

133.45	142.50	3d Fragmental (mafic matrix)	E589571	134.00	136.00	2.00	0.018				6.5	0.018	
		Mafic fragmental: Interval is dominantly composed of undifferentiated mafic, however, sparatic subrounded pseudomorphed "clasts" observed (overall clast abundance ~2%). Where observed, the "clasts" are totally altered (pseudomorphed by sulphide, silica, and carbonate). A distinct subangular pyrite "clast" observed at 140.4m.	E589573	136.00	138.00	2.00	0.012				7.4	0.012	
			E589574	138.00	139.50	1.50	0.016				8	0.016	
			E589575	139.50	141.50	2.00	0.062				12.4	0.062	
			E589576	141.50	142.50	1.00	0.092				18.4	0.092	

142.50	145.70	3a Conglomerate	E589577	142.50	144.00	1.50	0.727				39.9	0.727	
		Conglomerate: Overall colour of interval is greyish brown. Interval is strongly altered, which obscures an accurate prediction of clast/matrix abundance. Although some of the clasts are strongly altered, heterolithic (QFP and cherty) clasts are observed. Clasts are subangular to rounded. The interval is moderately foliated and sulphidized. A sharp lower contact at 60 deg TCA is observed.	E589578	144.00	145.70	1.70	0.142				134	0.142	

145.70	148.50	3 Sediment	E589579	145.70	147.00	1.30	0.064				27.2	0.064	
		Meta sediment: Greenish-black, vfg, strongly resistant to scratch (proposed to be moderately silicified), moderately - strongly magnetic. Sharp lower contact at 60 deg TCA with strongly altered mg dyke. No distinct fabric observed in interval.	E589580	147.00	148.50	1.50	0.045				10.5	0.045	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
		<i>Litho Description</i>											
148.50	149.85	6 Mafic dyke Mafic dyke, mg, strongly altered (chlorite, biotite (dominantly occurs as flakes), and strongly carbonitized). Trace pyrite observed. Sharp lower contact at 60 deg TCA.	E589581	148.50	149.85	1.35	0.01				6.8	0.01	
149.85	167.25	3 Sediment Meta sediment: greenish-black, vfg, strongly resistant to scratch (proposed to be moderately silicified), moderately - strongly magnetic. Sharp irregular contact observed at ~167.25m. Strain zones observed sparatically through interval.	E589582	149.85	151.00	1.15	0.065				24.7	0.065	
			E589583	151.00	153.00	2.00	0.087				17.6	0.087	
			E589584	153.00	154.00	1.00	0.133				23.4	0.133	
			E589585	154.00	155.30	1.30	4.51				36.9	4.51	
			E589586	155.30	157.00	1.70	0.675				15.6	0.675	
			E589587	157.00	158.50	1.50	0.38				10.2	0.38	
			E589588	158.50	160.10	1.60	0.428				13.7	0.428	
			E589589	160.10	161.15	1.05	0.398				30.8	0.398	
			E589590	161.15	162.50	1.35	1.04				102	1.04	
			E589591	162.50	164.20	1.70	2.56				113	2.56	
			E589592	164.20	165.90	1.70	0.492				97.3	0.492	
			E589593	165.90	167.25	1.35	1.275				104	1.275	
167.25	174.55	3a Conglomerate Conglomerate: Medium greyish colouration, overall patchy appearance to interval (due to clast variation as well as alteration). Moderately to strongly altered, weak - moderate sulphidized. Can't distinguish clast / matrix ratio due to alteration. Observed clast appear to be up to cm-scale. Lower contact is sharp, however irregular (at high angles TCA).	E589594	167.25	169.00	1.75	0.143				76.6	0.143	
			E589595	169.00	171.00	2.00	0.263				55.1	0.263	
			E589596	171.00	173.00	2.00	0.637				79.4	0.637	
			E589597	173.00	174.55	1.55	0.671				70.7	0.671	
174.55	175.10	Vn Vein Calcite vein: Massive calcite, sucrosic. Sharp irregular upper and lower contacts.	E589598	174.55	177.00	2.45	0.234				30	0.234	

From (m) To (m) Geological Description

Formation Name Litho Code Litho Description

Field N FROM TO INT. Au Au Ag Ag As Au As
 (m) ICP Assay ICP Assay ICP Plot Plot
 ppm ppm ppm ppm ppm ppm ppm

175.10 187.00

5 QFP

QFP: gradual transition from the massive quartz to QFP-dominant zone. Appears to be relatively coherent (i.e. NOT made p of clasts), grayish-tan coloured QFP cut by many poorly-defined zones of very high alteration. These zones are darker in coloration than the surrounding QFP, can contain chlorite, calcite, patches of quartz, and what appear to be fragments of QFP as well. This section may have been a large block of QFP broken through and cross-cut by veins which also infiltrated and altered the host rock QFP, as a tentative reason wy the veins themselves are so poorly defined]. Only 1 clast of lithology differing from QFP found, at 178.42m: soft, micaceous, angular, pyritic: mafic?. Pyrite content varies from absent to 3%, and is typically trace to 1%, always disseminated, typically very fine-grained. No pyrrhotite or magnetite observed. Some small veinlets /stringers of calcite present. Rock appears to be highly silicified. ~80% of rock is relatively coherent QFP, rest is "highly altered zones/veins".

E589599	177.00	179.00	2.00	0.024					41.9	0.024	
E589601	179.00	181.00	2.00	0.035					37.8	0.035	
E589602	181.00	183.00	2.00	0.009					54.8	0.009	
E589603	183.00	185.00	2.00	0.071					75.8	0.071	
E589604	185.00	187.00	2.00	0.114					135	0.114	

187.00 192.95

2a QFP debris flow/breccia

Transitional zone, where the darker "highly altered zones/veins" from the previous section here make up around half of the total rock. Large ~20cm wide, coherent chunks of QFP still present. Potential "clasts" observed, usually small and subrounded to subangular, almost uniquely QFP in composition. 1 "clast" of uncertain nature at 190.2m; 4cm long, with chlorite alteration halo. Rock is moderately silicified, weakly chloritized. Some calcite veinlets. Only trace levels of pyrite observed, and no other sulphides or oxides.

E589605	187.00	189.00	2.00	0.018					49.4	0.018	
E589606	189.00	191.00	2.00	0.011					35.1	0.011	
E589607	191.00	192.95	1.95	0.097					33.6	0.097	

192.95 212.45

3a Conglomerate

Conglomerate: highly chloritized matrix, clearly-defined clasts of different lithologies observed. Clasts: typically subrounded to subangular, 1-3mm diameter (however smaller clasts may be difficult to distinguish as they blend in to the matrix, and larger clasts may be difficult to identify if they have been slightly broken up or cut by veins). Clasts of QFP are common, but primary mineralogy of other clasts hard to establish, but probably mafic (as they are usually dark are have partially altered to chlorite and pyrite). Some QFP clasts have quartz rims. Conglomerate appears to be matrix-supported, with ~60% clasts (very approximate). Clasts become gradually less well-defined and harder to distinguish with increasing depth, especially below ~201m. Calcite veinlets somewhat common, typically occurring at ~30 deg TCA, but angle is variable. Rock is moderately silicified, weakly chloritized. Pyrite content is variable, but typically low (trace-3%). Occasionally short zones run up to 7%, and at 198.2m up to ~30%, although this may be along a fracture. Pyrite typically disseminated, occasionally along veins. Clasts occasionally replaced by

E589608	192.95	195.00	2.05	0.085					46.2	0.085	
E589609	195.00	197.00	2.00	0.115					107	0.115	
E589610	197.00	198.00	1.00	0.033					109.5	0.033	
E589611	198.00	198.60	0.60	0.192					85.8	0.192	
E589612	198.60	200.60	2.00	0.023					39.1	0.023	
E589613	200.60	202.60	2.00	0.087					98.7	0.087	
E589614	202.60	203.60	1.00	0.384					122	0.384	
E589615	203.60	205.00	1.40	0.378					68.3	0.378	
E589616	205.00	207.00	2.00	0.028					29.6	0.028	
E589617	207.00	209.00	2.00	0.011					18.8	0.011	
E589618	209.00	211.00	2.00	0.02					17.7	0.02	
E589619	211.00	212.45	1.45	0.047					16.7	0.047	

From (m) To (m) Geological Description

Formation Name Litho Code Litho Description

Field N FROM TO INT. Au Au Ag Ag As Au As
(m) ICP Assay ICP Assay ICP Plot Plot
ppm ppm ppm ppm ppm ppm ppm

pyrite as well. No magnetite or pyrrhotite observed. Weak fabric visible from 198.2-199m, at 30-40 deg TCA.

212.45 230.70

3 Sediment

Transitional zone (meta sediment): highly altered rock, fine-grained, dark in coloration. Predominantly made up of large patches of dark green (very chloritized) and purplish-brown (biotite-rich?) areas, smaller patches & large poorly-defined veins of calcite, rare siliceous patches, and patches of whitish, very fine-grained alteration (sericite?). Definite clasts no longer observed, except for between 214.75-216.35m where up to 15cm-wide, poorly-defined and somewhat 'wispy' chunks of QFP. Rare shapes resembling clasts may be xenoliths. Rock is very weakly silicified, moderately chloritized and has moderate biotite alteration. Meandering calcite veinlets, stringers and patches relatively common. Larger meandering veins containing calcite, chlorite and sulphides also present. Pyrite content is quite variable, typically trace-4%, but rarely up to 60% over small intervals. Around half of core tested with a pen magnet was at least slightly magnetic, with up to 5% pyrrhotite observed. No magnetite observed.

Field N	FROM	TO	INT. (m)	Au ICP	Au Assay	Ag ICP	Ag Assay	As ICP	Au Plot	As Plot
E589620	212.45	213.45	1.00	0.096				13.5	0.096	
E589621	213.45	214.45	1.00	0.041				14.3	0.041	
E589622	214.45	216.45	2.00	0.014				9.2	0.014	
E589623	216.45	217.50	1.05	0.177				12.2	0.177	
E589624	217.50	219.00	1.50	0.107				15.6	0.107	
E589625	219.00	220.00	1.00	0.322				22.7	0.322	
E589626	220.00	221.50	1.50	0.084				14	0.084	
E589627	221.50	222.50	1.00	1.035				12.8	1.035	
E589628	222.50	224.00	1.50	0.087				8.2	0.087	
E589629	224.00	225.50	1.50	0.011				2.8	0.011	
E589630	225.50	227.00	1.50	0.013				2.9	0.013	
E589631	227.00	229.00	2.00	0.008				2.8	0.008	
E589632	229.00	230.70	1.70	0.013				3.5	0.013	

230.70 264.26

7a Hornblendite

Hornblendite: Black, mg - cg, overall ~1-2% sulphides, with local strained sections containing up to 20%. Moderate chlorite and weak-moderate carbonate alteration observed through interval. Biotite alteration observed locally.

Field N	FROM	TO	INT. (m)	Au ICP	Au Assay	Ag ICP	Ag Assay	As ICP	Au Plot	As Plot
E589633	230.70	232.30	1.60	0.012				3	0.012	
E589634	232.30	234.00	1.70	0.079				5.1	0.079	
E589635	234.00	234.75	0.75	0.253				5.9	0.253	
E589637	234.75	236.25	1.50	0.019				6.1	0.019	
E589638	236.25	238.00	1.75	0.014				3.3	0.014	
E589639	238.00	240.00	2.00	0.035				3.3	0.035	
E589640	240.00	241.60	1.60	0.06				6	0.06	
E589641	241.60	243.60	2.00	0.078				6.5	0.078	
E589642	243.60	245.80	2.20	0.097				11.3	0.097	
E589643	245.80	248.00	2.20	0.07				8.9	0.07	
E589644	248.00	250.00	2.00	0.082				10.3	0.082	
E589645	250.00	252.00	2.00	0.215				12	0.215	
E589646	252.00	254.00	2.00	0.04				9.8	0.04	
E589647	254.00	255.60	1.60	0.072				10.1	0.072	
E589648	255.60	256.10	1.50	0.461				18.7	0.461	
E589649	256.10	258.60	2.50	0.201				24.4	0.201	
E589650	258.60	259.10	0.50	0.144				9	0.144	
E589651	259.10	261.00	1.90	0.022				6.4	0.022	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>		<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>	<i>Litho Code</i> <i>Litho Description</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
								<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
				E589652	261.00	262.50	1.50	0.037				8.6	0.037	
				E589653	262.50	264.26	1.76	0.064				7.5	0.064	

Hole_ID	TC07-02	Hole Type	Core	Purpose/Comments: Test section eastern section of northern-most chargeability anomaly (testing anomaly ~100m to the west of the intersection cut by TC07-01).
Project	Thundercloud	Survey Type		
X	534312	Hole Diameter	NQ2	
Y	5471435	Drill Operator	G&O Contractors	
z	455	Drill Rig	Longyear 38	
Azimuth	190	Grid East		
Dip	-45	Grid North		
Total Length	203.3	Start Date	11-Mar-07	
Location		End Date	11-Sep-07	
Grid		Logged by	Turner	
Claim	1162726	Sampled by	Turner	
NTS Mapsheet	052F07	Relogged by		

Survey Data:

Depth Azimuth Dip

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm

0.00	5.40	casing											
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5.40	8.30	1 Mafic Volcanic (undifferentiated)	E589654	5.75	8.30	2.55	0.018				1.7	0.018	
		Mafic (undifferentiated): Overall patchy brown and green colouration, mg, weakly foliated, mod alteration, low pyrite concentration. Transitional contact at ~8.3m.											

8.30	14.85	1 Mafic Volcanic (undifferentiated)	E589655	8.30	9.75	1.45	0.025				2.5	0.025	
		Mafic (dominantly undifferentiated): Dark greenish black, vfg, two xenolith fragments observed at 11.35m, however, dominantly undifferentiated mafic. Moderately magnetic. Overall weakly sulphidized with sections of increased sulphide abundance. Moderately sharp irregular lower contact.	E589656	9.75	11.25	1.50	0.01				2.7	0.01	
			E589657	11.25	13.00	1.75	0.026				3.8	0.026	
			E589658	13.00	14.85	1.85	0.01				2.7	0.01	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
14.85	16.05	20 undifferentiated Undifferentiated unit: light grey colouration, vfg, scratches moderately easily, moderately - strongly altered, crackle-brecciated. Trace - 1% disseminated sulphides.	E589659	14.85	16.05	1.20	0.004				5.2	0.004	
16.05	47.90	1 Mafic Volcanic (undifferentiated) Mafic (dominantly undifferentiated): very similar to unit observed b/w 8.3 - 14.85m. One xenolith observed at ~24.85m. Chlorite filled amygdules observed in sections (ie. ~45.5m). Weakly - moderately altered (sections of moderate - high alteration), low sulphide concentration with patches of moderate sulphidation. Brecciated intervals b/w 36.3 - 37.45m and 42.65 - 44.55m (intervals brecciated by chlorite + calcite +/- silica veins). Sharp lower contact at 35 deg TCA with feldspar porphyry.	E589660	16.05	18.00	1.95	0.038				3.4	0.038	
			E589661	18.00	20.00	2.00	0.005				2.4	0.005	
			E589662	20.00	22.00	2.00	0.003				3	0.003	
			E589663	22.00	24.00	2.00	0.002				1.7	0.002	
			E589664	24.00	26.00	2.00	0.003				2	0.003	
			E589665	26.00	28.00	2.00	0.008				3.1	0.008	
			E589666	28.00	30.00	2.00	0.003				1.6	0.003	
			E589667	30.00	32.00	2.00	0.003				1.3	0.003	
			E589668	32.00	34.00	2.00	0.003				1.5	0.003	
			E589669	34.00	36.30	2.30	0.006				2.5	0.006	
			E589670	36.30	37.45	1.05	0.012				8	0.012	
			E589671	37.45	38.70	1.25	0.011				1.5	0.011	
			E589672	38.70	39.70	1.00	0.028				2	0.028	
			E589673	39.70	41.75	2.05	0.02				3.6	0.02	
			E589674	41.75	42.65	0.90	0.016				3.5	0.016	
			E589676	42.65	44.55	1.90	0.011				4.4	0.011	
			E589677	44.55	47.90	3.35	0.014				5.8	0.014	
47.90	50.00	5c Feldspar porphyry Feldspar porphyry: Medium - dark grey with ~2mm long feldspar phenocrysts. High silica content. Moderate sulphide concentration. Sharp irregular lower contact at 50.0m.	E589678	47.90	50.00	2.10	0.015				15.1	0.015	
50.00	53.15	1 Mafic Volcanic (undifferentiated) Undifferentiated mafic: very similar to interval b/w 16.05 - 47.90m. Interval is moderately - strongly altered. Sharp lower contact with hydrothermal breccia unit.	E589679	50.00	51.80	1.80	0.029				20.8	0.029	
			E589680	51.80	53.15	1.35	0.056				21.5	0.056	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT. (m)	Au ICP ppm	Au Assay ppm	Ag ICP ppm	Ag Assay ppm	As ICP ppm	Au Plot ppm	As Plot ppm
		Formation Name Litho Code Litho Description											
53.15	54.20	Bxht Breccia (hydrothermal) Breccia (hydrothermal): Interval is strongly altered; no conclusive evidence of protolith. Fragments are strongly altered (chlorite/biotite). Interval is strongly pyritized. Sharp upper and lower contacts.	E589681	53.15	54.20	1.05	0.131				39.3	0.131	
54.20	65.90	1 Mafic Volcanic (undifferentiated) Undifferentiated mafic: very similar to interval b/w 50.00 - 53.15m. Interval is moderately strongly altered.	E589682	54.20	55.90	1.70	0.13				22.9	0.13	
			E589683	55.90	57.50	1.60	0.029				8	0.029	
			E589684	57.50	59.60	2.10	0.091				10.8	0.091	
			E589685	59.60	62.00	2.40	0.049				5.1	0.049	
			E589686	62.00	64.00	2.00	0.025				3.5	0.025	
			E589687	64.00	65.90	1.90	0.073				6	0.073	
65.90	67.00	Bxht Breccia (hydrothermal) Brecciated (hydrothermal): Interval is brecciated by anastomosing calcite veins. Interval is moderately to strongly altered and sulphidized.	E589688	65.90	67.00	1.10	0.141				22	0.141	
67.00	80.50	1 Mafic Volcanic (undifferentiated) Mafic (undifferentiated): Overall greenish grey colouration with brown patches. Interval does not contain evidence of primary structures to further classify the mafic unit. Pyrite oval shaped blebs (possibly pyrite filled amygdules) observed in sections of interval. Overall, interval is moderately to strongly altered. Sharp lower contact at 80.50m @ 60 deg TCA.	E589689	67.00	69.00	2.00	0.047				6.5	0.047	
			E589690	69.00	71.00	2.00	0.048				5.2	0.048	
			E589691	71.00	73.00	2.00	0.08				8.3	0.08	
			E589692	73.00	75.00	2.00	0.129				8.9	0.129	
			E589693	75.00	77.00	2.00	0.084				9.3	0.084	
			E589694	77.00	79.00	2.00	0.058				5.5	0.058	
			E589695	79.00	80.50	1.50	0.247				7.3	0.247	
80.50	86.75	3a Conglomerate Conglomerate: Clasts appear dominantly felsic and vary in length from boulder to pebble size. Interval is strongly altered, with some clasts smaller clasts being preferentially chloritized and pyritized. Sulphides are also disseminated in the matrix, and are concentrated around the rims of some clasts. Lower contact is ~35 deg TCA.	E589696	80.50	82.00	1.50	0.163				40.5	0.163	
			E589697	82.00	84.00	2.00	0.078				57.1	0.078	
			E589698	84.00	85.80	1.80	0.038				60.5	0.038	
			E589699	85.80	86.75	0.95	0.36				112	0.36	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
86.75	96.70	3 Sediment Meta sediment: Dark greenish grey, very non-descript, no primary features observed, scratches easily (proposed to be moderately weakly biotite and moderately strongly chlorite altered). Sharp lower contact @ 50 deg TCA (contact defined by ~5cm wide calcite vein).	E589700	86.75	89.00	2.25	0.178				11.1	0.178	
			E589701	89.00	91.00	2.00	0.526				3.6	0.526	
			E589702	91.00	93.00	2.00	0.161				5.4	0.161	
			E589703	93.00	95.00	2.00	0.038				9.8	0.038	
			E589704	95.00	96.70	1.70	0.052				7.2	0.052	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
96.70	107.70	3a Conglomerate Conglomerate: Felsic clasts (quartz eyes observed) in moderately to strongly altered matrix. Clast size and angularity varies through interval. Hard to distinguish clast to matrix % due to extent of alteration. Interval is weakly to moderately foliated and is strongly sulphidized. Sharp lower contact with silica vein at 107.70m @ 35 deg TCA.	E589705	96.70	98.50	1.80	0.777				42.3	0.777	
			E589707	98.50	100.30	1.80	0.055				34.9	0.055	
			E589708	100.30	101.50	1.20	0.132				100.5	0.132	
			E589709	101.50	103.00	1.50	0.162				109	0.162	
			E589710	103.00	104.50	1.50	0.147				108.5	0.147	
			E589711	104.50	106.00	1.50	0.271				128.5	0.271	
			E589712	106.00	107.70	1.70	0.961				172	0.961	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
107.70	108.75	Vn Vein Calcite vein: Whitish - pink colouration, sucrosic texture (mg), pure calcite, no sulphides observed, non-magnetic.	E589713	107.70	108.80	1.10	0.457				25	0.457	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
108.75	117.00	3a Conglomerate Conglomerate: Similar to interval b/w 96.7 - 107.7m. Clasts vary in size and angularity. Section b/w 110.5 - 112.5m is dominantly composed of QFP (can't determine if it is a boulder or banded flow (banding ~70 deg TCA))? Moderately sharp irregular contact @ 117.0m.	E589714	108.80	110.50	1.70	1.705				121.5	1.705	
			E589715	110.50	112.50	2.00	0.089				48.1	0.089	
			E589716	112.50	114.00	1.50	0.435				83.7	0.435	
			E589717	114.00	115.80	1.80	0.669				33.1	0.669	
			E589718	115.80	117.00	1.20	15.6	15.6			12.2	15.6	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i> <i>Litho Description</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
117.00	126.55	3 Sediment Meta sediment: Overall dark greyish green colouration. Oval shaped pyrite concentrations observed (possibly pyrite filled amygdules)? Moderately altered (patchy); weakly pyritized. Moderately sharp lower contact @ 125.55m.	E589719	117.00	119.00	2.00	4.82				9.2	4.82	
			E589720	119.00	121.00	2.00	0.977				7.2	0.977	
			E589721	121.00	123.00	2.00	0.464				6	0.464	
			E589722	123.00	125.00	2.00	0.253				6.6	0.253	
			E589723	125.00	126.55	1.55	0.134				8.8	0.134	
126.55	135.70	3a Conglomerate Conglomerate: Overall patchy appearance of interval. Distinct clasts observed @ ~ 130.8m. Interval is moderately to strongly altered, which obscured clast outlines. Subsequently clast/matrix ratio estimates were not possible. Variation in extent of sulphidation is also observed through interval. Transitional lower contact ~ 135.7	E589724	126.55	128.00	1.45	0.383				13.7	0.383	
			E589725	128.00	129.50	1.50	5.43				27.7	5.43	
			E589726	129.50	131.00	1.50	2.53				30.4	2.53	
			E589727	131.00	133.00	2.00	3.06				89.2	3.06	
			E589728	133.00	135.00	2.00	1.56				166	1.56	
			E589729	135.00	137.00	2.00	1.925				28.4	1.925	
135.70	139.40	3a Conglomerate Conglomerate or fragmental unit in mafic matrix: Overall colouration is dark greyish green, no distinct clasts observed on surface of core, however, quartz eyes observed in clusters in the vfg matrix (proposed as moderately - strongly altered clasts in strongly altered matrix). Interval proposed as matrix supported. Interval contains low sulphide content. Sharp lower contact @ 60 deg TCA.	E589730	137.00	139.40	2.40	0.069				256	0.069	
139.40	147.80	5 QFP QFP: buff grey colour, moderately foliated, a few angular fragments observed, however typically very consistent. Quartz eyes typically subrounded to rounded, typically no pyrite observed (trace in areas). Sharp lower contact at 50 deg TCA.	E589731	139.40	141.50	2.10	0.025				19.6	0.025	
			E589732	141.50	143.50	2.00	0.003				19.9	0.003	
			E589733	143.50	145.50	2.00	0.004				10.3	0.004	
			E589734	145.50	147.80	2.30	0.004				9.2	0.004	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description					ppm	ppm	ppm	ppm	ppm	ppm	ppm

147.80	151.90	3a Conglomerate	E589735	147.80	149.90	2.10	0.049				12.3	0.049	
Conglomerate: Overall patchy dark brownish grey colouration. Observed clasts dominantly appear to be composed of QFP. Some subrounded clasts edges observed, however overall can't tell degree of rounding of the clasts due to large clast size. Weak to moderate foliated interval (~55 deg TCA). Overall moderate to strong alteration, moderate sulphidization. Transitional lower contact at ~ 151.90m with hydrothermal breccia zone below.			E589736	149.90	151.90	2.00	0.235				23	0.235	

151.90	154.50	Bxht Breccia (hydrothermal)	E589738	151.90	153.00	1.10	1.48				49.3	1.48	
Breccia interval: overall brownish colouration, interval is cross-cut by ~20% abundance of calcite veins, subsequently brecciating the interval. Alteration (dominantly biotite and carbonate) is strong through interval and not reminance of the original host rock exist. Transitional lower contact @ ~154.50m.			E589739	153.00	154.50	1.50	0.468				42	0.468	

154.50	157.25	1 Mafic Volcanic (undifferentiated)	E589740	154.50	156.00	1.50	0.108				18.6	0.108	
Mafic (undifferentiated): Overall dark greyish green colouration, speckled appearance to the core (groundmass appears fg-mg), moderate alteration, weak sulphidation. Sharp lower contact with QFP @ 157.25m @ ~65 deg TCA.			E589741	156.00	157.25	1.25	0.042				9.1	0.042	

157.25	158.83	5 QFP	E589742	157.25	158.85	1.60	0.008				3.7	0.008	
QFP dyke: Overall buff grey colouration. Same as b/w 139.4 - 147.8m. Moderate - strong sericitization, trace pyrite. Sharp lower contact @ 158.83m @ 70 deg TCA.													

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
		<i>Litho Description</i>											
158.83	176.90	3 Sediment Meta sediment: Overall dark greyish green colouration, speckled appearance to the core (groundmass appears fg-mg), no distinct evidence of primary features, moderate alteration, weak sulphidation, which increases with proximity to lower contact. Transitional lower contact @ ~176.90m.	E589743	158.85	161.00	2.15	0.005				0.2	0.005	
			E589744	161.00	163.00	2.00	0.003				0.2	0.003	
			E589745	163.00	165.00	2.00	0.003				0.8	0.003	
			E589746	165.00	167.00	2.00	0.005				1.4	0.005	
			E589747	167.00	169.00	2.00	0.005				1	0.005	
			E589748	169.00	171.00	2.00	0.008				3.3	0.008	
			E589749	171.00	173.00	2.00	0.015				0.2	0.015	
			E589750	173.00	175.00	2.00	0.021				0.3	0.021	
			E589752	175.00	177.00	2.00	0.056				5	0.056	
176.90	183.17	3 Sediment Meta sed: (mafic intercalated with intermediate tuff bands): Overall colouration is dark greyish brown, lighter bands cutting through interval. Lighter bands are strongly sericitized (no remnant of host rock, however proposed to be primary bands of different composition (subsequently preferentially altering to sericite). Overall, interval is strongly altered and sulphidized. Commonly sulphides are concentrated along the foliation plane (~40-45 deg TCA). Lower contact is transitional.	E589753	177.00	178.00	1.00	0.106				10	0.106	
			E589754	178.00	179.00	1.00	0.082				9.1	0.082	
			E589755	179.00	180.00	1.00	0.159				42.8	0.159	
			E589756	180.00	181.00	1.00	0.125				44.8	0.125	
			E589757	181.00	182.00	1.00	0.134				27.7	0.134	
			E589758	182.00	183.17	1.17	0.147				12.3	0.147	
183.17	203.30	3 Sediment Meta sed? (undifferentiated): Overall greenish black colouration, fg - mg groundmass, no distinct evidence of primary features, weak - moderate alteration, trace sulphidation. EOH @ 203.30m.	E589759	183.17	184.70	1.53	0.053				4.4	0.053	
			E589760	184.70	186.20	1.50	0.143				4.1	0.143	
			E589761	186.20	187.70	1.50	0.659				6.4	0.659	
			E589762	187.70	190.00	2.30	0.678				2	0.678	
			E589763	190.00	192.00	2.00	0.032				3.6	0.032	
			E589764	192.00	194.00	2.00	0.02				3.1	0.02	
			E589765	194.00	196.00	2.00	0.133				2.8	0.133	
			E589766	196.00	198.00	2.00	0.307				3.7	0.307	
			E589767	198.00	200.30	2.30	0.132				0.6	0.132	
			E589768	200.30	203.30	3.00	0.011				1.2	0.011	

Hole_ID	TC07-03	Hole Type	Core	Purpose/Comments: Test IP anomaly that appears to be associated with conglomerate at depth. To test trenched area at depth.
Project	Thundercloud	Survey Type	Acid	
X	534274	Hole Diameter	NQ2	
Y	5471015	Drill Operator	G&O Contractors	
z	455	Drill Rig	Longyear 38	
Azimuth	90	Grid East		
Dip	-45	Grid North		
Total Length	349.6	Start Date	11-Nov-07	
Location		End Date	23-Nov-07	
Grid		Logged by	M. Campbell	
Claim		Sampled by	M. Campbell	
NTS Mapsheet	052F07	Relogged by		

Survey Data:		
Depth	Azimuth	Dip
102.0	0	-50.0
346.0	0	-50.0

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au (m)	Au ICP	Ag ICP	Ag Assay	As ICP	Au Plot	As Plot
		Formation Name					ppm	ppm	ppm	ppm	ppm	ppm	ppm
0.00	7.48	OB Casing/Overburden Casing/overburden: unrecovered. 12.1 13.0 #Name? Zone of low competency (rest of rock: moderate to high competency), and moderate chlorite alteration.											
7.48	8.85	1 Mafic Volcanic (undifferentiated) Mafic volcanic: "fresh," coherent, very fine-grained basalt. Dark green to blackish in colour.	E589769	7.48	8.85	1.37	0.031				5.2	0.031	
8.85	20.15	1 Mafic Volcanic (undifferentiated) Mafic volcanic: very sharp contact (~65 deg TCA) to highly altered basalt. Very fine-grained darker areas and bands alternate with paler and slightly coarser-grained areas and bands. Medium gray, to pale brownish, to slightly purplish in patches. Rock is quite hard; silicified?	E589770	8.85	11.00	2.15	0.006				8.1	0.006	
			E589771	11.00	13.00	2.00	0.009				6.1	0.009	
			E589772	13.00	15.00	2.00	0.006				25.2	0.006	
			E589773	15.00	17.00	2.00	0.027				90.7	0.027	
			E589774	17.00	19.00	2.00	0.014				41.5	0.014	
			E589775	19.00	20.15	1.15	0.005				8.7	0.005	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description					ppm	ppm	ppm	ppm	ppm	ppm	ppm
20.15	24.10	1 Mafic Volcanic (undifferentiated) Mafic volcanic: sharp contact (~50 deg TCA) back to "fresh," coherent, very fine-grained basalt. Dark green to blackish in colour.	E589776	20.15	22.10	1.95	0.007				2.6	0.007	
			E589777	22.10	24.10	2.00	0.009				1.7	0.009	
24.10	25.60	1 Mafic Volcanic (undifferentiated) Mafic volcanic: gradual transition to more altered basalt. Paler and grayish in coloration.	E589778	24.10	25.60	1.50	0.007				0.6	0.007	
25.60	29.80	1 Mafic Volcanic (undifferentiated) Dyke: abrupt transition to moderately felsic dyke unit (diorite?). Fine- to medium-grained, ~1mm diameter, equant phenocrysts. Occasional grains (or possibly xenocrysts?) up to 5mm wide. Pale gray to brownish in overall colour. Unit corresponds to mag sus high.	E589779	25.60	27.70	2.10	0.005				0.4	0.005	
			E589780	27.70	29.80	2.10	0.005				0.3	0.005	
29.80	67.25	1 Mafic Volcanic (undifferentiated) Mafic volcanic: very abrupt transition (~80 deg TCA) back to "fresh," coherent, very fine-grained basalt. Dark green to blackish in colour.	E589781	29.80	32.00	2.20	0.017				0.8	0.017	
			E589782	32.00	34.10	2.10	0.014				1.3	0.014	
			E589783	34.10	36.25	2.15	0.009				0.4	0.009	
			E589784	36.25	38.00	1.75	0.012				0.8	0.012	
			E589785	38.00	40.00	2.00	0.015				0.9	0.015	
			E589786	40.00	42.00	2.00	0.006				0.9	0.006	
			E589787	42.00	44.00	2.00	0.008				0.8	0.008	
			E589788	44.00	46.00	2.00	0.006				1.5	0.006	
			E589790	46.00	48.00	2.00	0.008				2.1	0.008	
			E589791	48.00	50.00	2.00	0.009				0.7	0.009	
			E589792	50.00	52.00	2.00	0.014				0.7	0.014	
			E589793	52.00	54.00	2.00	0.01				1.4	0.01	
			E589794	54.00	56.00	2.00	0.019				1	0.019	
			E589795	56.00	58.00	2.00	0.018				1.3	0.018	
			E589796	58.00	60.00	2.00	0.021				0.2	0.021	
			E589797	60.00	61.50	1.50	0.015				0.2	0.015	
			E589798	61.50	63.10	1.60	0.013				0.5	0.013	
			E589799	63.10	64.60	1.50	0.012				5	0.012	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)				ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			E589800	64.60	64.60	0.00	15.4	15.4			4860	15.4	
			E589801	64.60	66.00	1.40	0.016				5.5	0.016	
			E589802	66.00	67.40	1.40	0.017				1.9	0.017	
67.25	67.40	Bxht Breccia (hydrothermal) Breccia (hydrothermal): all clasts are angular and mafic (basalt), in a carbonate matrix.											
67.40	68.05	5c Feldspar porphyry FP dyke: fine- to medium-grained, dark, feldspar porphyry. Phenocrysts are well defined, up to 1mm wide. Overall colour is dark, speckly gray.	E589803	67.40	68.05	0.65	0.004				0.6	0.004	
68.05	68.40	1 Mafic Volcanic (undifferentiated) Mafic volcanic: "fresh," coherent, very fine-grained basalt. Dark green to blackish in colour.	E589804	68.05	68.60	0.55	0.059				5.9	0.059	
68.40	69.80	Fault (or shear?) zone. Highly altered. Appears to contain some zones with basalt composition, and some with feldspar porphyry dyke composition.	E589805	68.60	69.40	0.80	0.271				14.5	0.271	
			E589806	69.40	70.20	0.80	0.007				0.7	0.007	
69.80	70.20	1 Mafic Volcanic (undifferentiated) Mafic volcanic: "fresh," coherent, very fine-grained basalt. Dark green to blackish in colour.											

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description					ppm	ppm	ppm	ppm	ppm	ppm	ppm
70.20	72.00	5c Feldspar porphyry FP dyke: fine- to medium-grained, dark, feldspar porphyry. Poorly defined contact, or just difficult to make out. Phenocrysts are well defined, up to 1mm wide. Overall colour is dark, speckly gray.	E589807	70.20	72.00	1.80	0.006				0.2	0.006	
72.00	73.00	Bxht Breccia (hydrothermal) Breccia (hydrothermal): abrupt transition to hydrothermally brecciated basalt. Small to large veins containing angular basalt clasts alternate with short zones of more coherent basalt. Veins/matrix are carbonate rich.	E589808	72.00	73.00	1.00	0.008				0.9	0.008	
73.00	166.70	1 Mafic Volcanic (undifferentiated) Mafic volcanic: "fresh," coherent, very fine-grained basalt. Potential varioles present occasionally from ~126.8-137.2m, and from 143.1-166.7m: whitish, non-carbonate, sub-mm to 5mm diameter blebs. [See "Alteration" and "Comments" sections for more details about variations in coloration as well as alteration along this section] 137.2 137.3 #Name? Angular basalt clasts within large carbonate vein; hydrothermal breccia?	E589809	73.00	75.00	2.00	0.007				0.4	0.007	
			E589810	75.00	77.00	2.00	0.008				1.5	0.008	
			E589811	77.00	79.00	2.00	0.006				1.7	0.006	
			E589812	79.00	81.00	2.00	0.007				4.5	0.007	
			E589813	81.00	83.00	2.00	0.008				1.6	0.008	
			E589814	83.00	85.00	2.00	0.009				6.3	0.009	
			E589815	85.00	87.00	2.00	0.007				6.3	0.007	
			E589816	87.00	89.00	2.00	0.007				4.5	0.007	
			E589817	89.00	91.00	2.00	0.007				6.7	0.007	
			E589818	91.00	93.00	2.00	0.006				4.6	0.006	
			E589819	93.00	95.00	2.00	0.007				5.6	0.007	
			E589820	95.00	97.00	2.00	0.006				5	0.006	
			E589821	97.00	99.00	2.00	0.007				9.7	0.007	
			E589822	99.00	101.00	2.00	0.007				2.5	0.007	
			E589823	101.00	103.00	2.00	0.007				5.6	0.007	
			E589824	103.00	105.00	2.00	0.007				10.4	0.007	
			E589825	105.00	107.00	2.00	0.006				10.6	0.006	
			E589826	107.00	109.00	2.00	0.005				5.8	0.005	
			E589827	109.00	111.00	2.00	0.004				3.3	0.004	
			E589828	111.00	113.00	2.00	0.009				2.1	0.009	
			E589829	113.00	115.00	2.00	0.007				1.8	0.007	
			E589830	115.00	117.00	2.00	0.004				0.8	0.004	
			E589831	117.00	119.00	2.00	0.004				0.6	0.004	
			E589832	119.00	121.00	2.00	0.015				1.2	0.015	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
Formation Name	Litho Code	Litho Description	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm
			E589833	121.00	123.00	2.00	0.006				0.4	0.006	
			E589834	123.00	125.00	2.00	0.002				1.1	0.002	
			E589836	125.00	127.00	2.00	0.011				0.9	0.011	
			E589837	127.00	129.00	2.00	0.004				2.4	0.004	
			E589838	129.00	131.00	2.00	0.004				6	0.004	
			E589839	131.00	133.00	2.00	0.007				8.8	0.007	
			E589840	133.00	135.00	2.00	0.007				6.6	0.007	
			E589841	135.00	137.00	2.00	0.009				7.7	0.009	
			E589842	137.00	137.70	0.70	0.006				4	0.006	
			E589843	137.70	139.00	1.30	0.007				5.3	0.007	
			E589844	139.00	141.00	2.00	0.01				6.5	0.01	
			E589845	141.00	142.40	1.40	0.003				1.7	0.003	
			E589846	142.40	143.20	0.80	0.016				1.2	0.016	
			E589847	143.20	145.00	1.80	0.009				0.7	0.009	
			E589848	145.00	147.00	2.00	0.012				1.8	0.012	
			E589849	147.00	149.00	2.00	0.013				3.7	0.013	
			E589850	149.00	151.00	2.00	0.008				1.6	0.008	
			E589851	151.00	153.00	2.00	0.006				1.7	0.006	
			E589852	153.00	155.00	2.00	0.004				1.4	0.004	
			E589853	155.00	156.30	1.30	0.002				1.5	0.002	
			E589854	156.30	157.30	1.00	0.004				2.9	0.004	
			E589855	157.30	158.30	1.00	0.005				2.1	0.005	
			E589856	158.30	159.30	1.00	0.003				2.8	0.003	
			E589857	159.30	160.30	1.00	0.006				1.7	0.006	
			E589858	160.30	162.00	1.70	0.008				3.9	0.008	
			E589859	162.00	164.00	2.00	0.006				3.1	0.006	
			E589860	164.00	165.50	1.50	0.01				2.8	0.01	
			E589861	165.50	166.70	1.20	0.012				2.5	0.012	
166.70	183.30	5 QFP QFP: abrupt transition to QFP dyke (very little extra alteration of the basalt just above the contact). Medium-grained, with phenocrysts typically 1-4 mm diameter. Phenocrysts are poorly defined until ~171.4m, when they very gradually become easily visible and well-defined. Phenocrysts are ~40% quartz, ~60% feldspar. Rock is medium gray, sometimes with slightly tan tinge. Very hard, high competency. 182.9-183.3m: chlorite-rich veins present; some form of brecciation?	E589862	166.70	168.00	1.30	0.008				4.5	0.008	
			E589863	168.00	170.00	2.00	0.028				5	0.028	
			E589864	170.00	172.00	2.00	0.016				6.5	0.016	
			E589865	172.00	174.00	2.00	0.027				7.4	0.027	
			E589866	174.00	176.00	2.00	0.011				3.3	0.011	
			E589867	176.00	178.00	2.00	0.005				3.3	0.005	
			E589868	178.00	180.00	2.00	0.025				6.4	0.025	
			E589869	180.00	182.00	2.00	0.022				6.5	0.022	
			E589870	182.00	183.30	1.30	0.044				5.4	0.044	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
		<i>Litho Description</i>											
183.30	194.00	3a Conglomerate Conglomerate: polymictic, matrix-supported conglomerate. Core is broken up around the contact, so difficult to say exactly where it is. Clasts are subrounded to subangular, and clast size is very variable: ~5mm to over 10cm wide, but typically ~2cm wide. 2 types of clasts dominate: heavily biotite-altered, medium-grained Feldspar Porphyry clasts; and nearly totally biotite replaced, fine-grained clasts. Smaller numbers of QFP and aphanitic, siliceous clasts also present. Matrix is highly chloritized, with patchy biotite alteration. May be geofantasizing, but appears to be very weak clast alignment at ~30 deg TCA. * Note: core is broken up around the upper contact, so difficult to make out exactly where the contact is.	E589871	183.30	185.00	1.70	0.032				5.5	0.032	
			E589872	185.00	186.50	1.50	0.023				3.6	0.023	
			E589873	186.50	188.00	1.50	0.01				3.8	0.01	
			E589874	188.00	189.50	1.50	0.05				4	0.05	
			E589875	189.50	191.00	1.50	0.024				3.4	0.024	
			E589876	191.00	192.50	1.50	0.013				4.8	0.013	
			E589877	192.50	194.00	1.50	0.015				2.9	0.015	
194.00	197.50	3 Sediment Meta-sed (wacke?): gradual transition to zone where clasts are much less visible. Rock coloration is patchy, dark-brownish/blackish/whitish.	E589878	194.00	195.50	1.50	0.031				1.9	0.031	
			E589879	195.50	197.00	1.50	0.019				1	0.019	
			E589880	197.00	198.50	1.50	0.018				1.1	0.018	
197.50	203.60	3a Conglomerate Conglomerate: clasts gradually become more visible again; all clasts are highly altered (carbonate, sericite, biotite and sulphide replacement all observed). Some clasts are so biotite-altered they almost blend into the matrix. Clast size: from sub-5mm to ~2cm wide, typically ~1cm wide. Dominantly blackish-colored matrix.	E589881	198.50	200.00	1.50	0.017				1.3	0.017	
			E589882	200.00	201.50	1.50	0.013				1.8	0.013	
			E589883	201.50	202.50	1.00	0.007				2.5	0.007	
			E589884	202.50	203.60	1.10	0.008				2.6	0.008	
203.60	205.70	3 Sediment Meta-sed (wacke?): gradual transition to nearly-clast-free zone. Slightly coarser-grained than the matrix of above units (here: ~1mm diameter grains). Overall coloration is very dark gray speckled with pale gray. Mineralogy: appears to be predominantly biotite and feldspar.	E589885	203.60	204.60	1.00	0.001				1.3	0.001	
			E589886	204.60	205.70	1.10	0.003				2.4	0.003	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)				ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm				ppm	ppm	ppm	ppm	ppm	ppm	ppm
205.70	208.10	3 Sediment Meta-siltstone (?): gradual transition to finer-grained rock. Coloration of rock is patchy, blackish/dark-greenish/brownish. Occasional, small clasts still visible. 206.5-206.7m: small vein-contained breccia (angular fragments of the host rock in quartz + carbonate vein).	E589887	205.70	207.00	1.30	0.011				2.5	0.011	
			E589888	207.00	208.10	1.10	0.025				1.9	0.025	
208.10	214.40	3a Conglomerate Conglomerate: gradual transition back to conglomerate with approximately the same lithology as the one from 183.3-194m. Here however rock appears more altered, and clast boundaries are often somewhat diffuse, difficult to make out. Rock coloration is predominantly blackish, with large whitish, brown, and greenish splotches. Overall, pretty patchy and "messy" appearance.	E589889	208.10	209.50	1.40	0.03				1.5	0.03	
			E589891	209.50	211.00	1.50	0.015				1.2	0.015	
			E589892	211.00	212.50	1.50	0.01				1.3	0.01	
			E589893	212.50	214.00	1.50	0.012				2.1	0.012	
			E589894	214.00	215.50	1.50	0.032				3.4	0.032	
214.80	221.80	3 Sediment Meta-sed: wacke or meta-siltstone (?) with ~5% larger clasts. Very gradual transition to zone with much smaller amount of visible clasts. Some clasts, typically ~1cm diameter and subrounded, still present. Rock coloration is overall dark green, with occasional patches of brownish (biotite) alteration. 213.9--214.2m: very low competency zone; core all broken up, and some clay-ey alteration. Large vein?	E589895	215.50	217.00	1.50	0.022				3.1	0.022	
			E589897	217.00	218.50	1.50	0.031				14.5	0.031	
			E589898	218.50	220.00	1.50	0.017				6.3	0.017	
			E589899	220.00	221.00	1.00	0.018				6.8	0.018	
			E589900	221.00	222.00	1.00	0.063				6.2	0.063	
221.80	315.60	3 Sediment Meta-siltstone: fine-grained, clasts only very rarely observed, and when they are they are relatively difficult to distinguish. Overall colour of rock: patchy blackish/brownish/greenish, and crosscut by large number of whitish veinlets. [See "Alteration" for changes in coloration, and slight changes in grain size, over this zone].	E589901	222.00	223.00	1.00	0.338				8.7	0.338	
			E589902	223.00	224.00	1.00	0.07				4.4	0.07	
			E589903	224.00	225.00	1.00	0.032				4.7	0.032	
			E589904	225.00	226.50	1.50	0.047				2.5	0.047	
			E589905	226.50	228.00	1.50	0.031				3.7	0.031	
			E589906	228.00	229.50	1.50	0.026				2.3	0.026	
			E589907	229.50	231.00	1.50	0.013				4.9	0.013	
			E589908	231.00	232.50	1.50	0.026				1.3	0.026	
			E589909	232.50	234.00	1.50	0.008				2.1	0.008	
			E589910	234.00	235.50	1.50	0.017				2.6	0.017	
			E589911	235.50	237.00	1.50	0.011				4.6	0.011	

From (m) To (m) Geological Description
 Formation Name Litho Code Litho Description

Field N FROM TO INT. Au Au Ag Ag As Au As
 (m) ICP Assay ICP Assay ICP Plot Plot
 ppm ppm ppm ppm ppm ppm ppm

E589912	237.00	238.50	1.50	0.016					3.4	0.016		
E589913	238.50	240.00	1.50	0.017					3.1	0.017		
E589914	240.00	241.50	1.50	0.011					2.3	0.011		
E589915	241.50	243.00	1.50	0.016					1	0.016		
E589916	243.00	244.50	1.50	0.016					1.7	0.016		
E589917	244.50	246.00	1.50	0.009					1.5	0.009		
E589918	246.00	247.50	1.50	0.01					2.2	0.01		
E589919	247.50	249.00	1.50	0.006					2	0.006		
E589920	249.00	250.10	1.10	0.009					2.1	0.009		
E589922	250.10	251.20	1.10	0.006					5	0.006		
E589923	251.20	252.50	1.30	0.225					1.1	0.225		
E589924	252.50	254.00	1.50	0.072					1.9	0.072		
E589925	254.00	255.50	1.50	0.013					1.6	0.013		
E589926	255.50	257.00	1.50	0.104					4.1	0.104		
E589927	257.00	257.95	0.95	0.083					8.3	0.083		
E589928	257.95	259.50	1.55	0.027					7.2	0.027		
E589929	259.50	261.00	1.50	0.012					1.6	0.012		
E589930	261.00	262.00	1.00	0.022					1.8	0.022		
E589931	262.00	263.50	1.50	0.025					5	0.025		
E589932	263.50	265.00	1.50	0.022					2.5	0.022		
E589933	265.00	266.50	1.50	0.028					4.9	0.028		
E589934	266.50	268.00	1.50	0.013					4	0.013		
E589935	268.00	269.00	1.00	0.006					1.8	0.006		
E589936	269.00	270.00	1.00	0.006					2.4	0.006		
E589937	270.00	271.00	1.00	0.007					3.8	0.007		
E589938	271.00	272.50	1.50	0.011					6.9	0.011		
E589939	272.50	274.00	1.50	0.007					9.6	0.007		
E589940	274.00	275.50	1.50	0.011					5.3	0.011		
E589941	275.50	276.90	1.40	0.011					6.4	0.011		
E589943	276.90	277.80	0.90	0.016					14.6	0.016		
E589944	277.80	279.40	1.60	0.025					8.3	0.025		
E589945	279.40	281.00	1.60	0.018					6	0.018		
E589946	281.00	282.50	1.50	0.026					6	0.026		
E589947	282.50	284.00	1.50	0.064					5.5	0.064		
E589948	284.00	285.50	1.50	0.055					6.7	0.055		
E589949	285.50	286.50	1.00	0.042					13.1	0.042		
E589950	286.50	287.70	1.20	0.105					12.8	0.105		
E589951	287.70	289.00	1.30	0.026					10.2	0.026		
E589952	289.00	290.50	1.50	0.077					5.3	0.077		
E589953	290.50	292.00	1.50	0.053					7.3	0.053		

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
Formation Name	Litho Code	Litho Description	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm

E589954	292.00	293.50	1.50	0.008							5	0.008	
E589955	293.50	295.00	1.50	0.009							4.3	0.009	
E589956	295.00	296.50	1.50	0.006							2.5	0.006	
E589957	296.50	298.00	1.50	0.004							2.7	0.004	
E589958	298.00	299.50	1.50	0.008							4.6	0.008	
E589959	299.50	301.00	1.50	0.006							5	0.006	
E589960	301.00	302.50	1.50	0.004							6.1	0.004	
E589961	302.50	303.50	1.00	0.011							3.7	0.011	
E589962	303.50	305.00	1.50	0.042							5	0.042	
E589963	305.00	306.50	1.50	0.007							4.9	0.007	
E589964	306.50	308.00	1.50	0.009							5	0.009	
E589965	308.00	309.50	1.50	0.01							6.7	0.01	
E589966	309.50	311.00	1.50	0.014							3.5	0.014	
E589967	311.00	312.00	1.00	0.012							3.1	0.012	
E589968	312.00	313.00	1.00	0.012							5.2	0.012	
E589969	313.00	313.80	0.80	0.018							5.5	0.018	
E589971	313.80	314.70	0.90	0.061							10.5	0.061	
E589972	314.70	315.60	0.90	0.161							32.8	0.161	

315.60 317.80

5 QFP

QFP: very sharp, but jagged (angularly meandering) contact to QFP. Appears to be coherent, but is crosscut by a multitude of small blackish lines or "veinlets" (darker alteration) giving it the appearance of being somewhat fragmental. Uncertain as to whether this unit is a dyke, or perhaps a boulder, due to unclear relationship to other units at upper and lower contacts.

E589973	315.60	316.70	1.10	0.047							30.9	0.047	
E589974	316.70	317.80	1.10	0.05							39.5	0.05	

317.80 322.20

3a Conglomerate

Conglomerate: sharp but curvy, meandering contact into polymictic conglomerate unit. Clasts are typically subrounded to subangular, and typically ~1cm wide, but vary in size from 2mm to ~4cm wide. Occasional larger, broken up chunks also present (~12cm wide). Clasts are polymictic, but a large proportion of them appear aphanitic, and are tan to brownish in colour (very altered, feldspar and biotite?). Smaller amounts of feldspar prophyry (containing clearly visible crystals), quartz grains, and clasts replaced by carbonate or sulphides also present. No QFP clasts observed, except for an angular chunk of QFP found at the very top of the conglomerate unit, just below the QFP unit. Some clasts near the upper contact also appear deformed, or stretched. Matrix: very fine-grained, speckly dark green and whitish, looks like chlorite and sericite. Overall coloration is dark green to blackish, with a multitude of splotches of brown and to a lesser extent white. Clast clarity gradually decreases with depth.

E589975	317.80	319.30	1.50	0.045							33.5	0.045	
E589976	319.30	320.80	1.50	0.037							31.8	0.037	
E589977	320.80	322.20	1.40	0.035							18.2	0.035	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code					ppm	ppm	ppm	ppm	ppm	ppm	ppm

322.20	331.75	5c	Feldspar porphyry	E589978	322.20	323.30	1.10	0.002				5.4	0.002			
<p>Feldspar porphyry (?): appears to be sharp but meandering contact to medium-grained, crystalline intrusive unit (although core around contact is broken up). Appears coherent and relatively homogeneous below 323.3m; from 322.2-323.3m, unit appears distorted, with grains stretched out. Contains very little quartz, but appears to contain quite a bit of feldspar. Also contains fine-grained, disseminated, green mica (chlorite?). Overall coloration is very dark, grayish-brown, with some paler patches (especially around veins).</p>				E589979	323.30	324.80	1.50	0.002				1.3	0.002			
				E589980	324.80	326.30	1.50	0.004				1	0.004			
				E589981	326.30	327.80	1.50	0.002					1	0.002		
				E589982	327.80	329.80	2.00	0.003					0.4	0.003		
				E589983	329.80	331.70	1.90	0.001					0.7	0.001		
				E589984	331.70	332.40	0.70	0.028					10.5	0.028		

331.75	332.40	3a	Conglomerate
<p>Conglomerate: gradual transition to more deformed zone, displaying weak fabric. Some clear yet somewhat deformed clasts visible from 332,0-332,4m. Same clast lithologies as in the conglomerate at 317,8m.</p>			

332.40	333.00	3	Sediment	E589985	332.40	334.00	1.60	0.012				4.4	0.012
<p>Meta-sed (meta-siltstone?): gradual transition to fine-grained, dark brown rock. Some clasts still discernable, but many fewer visible than in the above unit, and only faintly visible. Weak fabric still present.</p>													

333.00	335.60	3a	Conglomerate	E589986	334.00	335.60	1.60	0.013				3.8	0.013
<p>Conglomerate: gradual transition to zone where clasts become more visible again. Clasts are 2mm-2cm wide, surrounded to subangular, and polymictic; same clast lithologies present as in conglomerate unit at 317.8m. Clasts often altered to carbonate or sulphides.</p>													

From (m) **To (m)** **Geological Description**
Formation Name *Litho Code* *Litho Description*

Field N **FROM** **TO** **INT.** **Au** **Au** **Ag** **Ag** **As** **Au** **As**
(m) *ICP* *Assay* *ICP* *Assay* *ICP* *Plot* *Plot*
ppm *ppm* *ppm* *ppm* *ppm* *ppm* *ppm* *ppm*

335.60 349.60 **3** **Sediment**
 Meta-siltstone: gradual transition to very fine-grained, blackish metased. Gradually, clasts less visible with depth, although occasional small, feldspar-bearing clasts or carbonate replacement in the shape of clasts. Below ~340m, clasts are no longer observed.

E589987	335.60	337.60	2.00	0.012				2.7	0.012	
E589988	337.60	339.60	2.00	0.022				1.6	0.022	
E589989	339.60	341.60	2.00	0.014				1.8	0.014	
E589990	341.60	343.60	2.00	0.021				1.8	0.021	
E589991	343.60	345.60	2.00	0.038				4	0.038	
E589992	345.60	347.60	2.00	0.042				2.8	0.042	
E589993	347.60	349.60	2.00	0.022				3.4	0.022	

Hole_ID	TC07-04	Hole Type	Core	Purpose/Comments: Test IP anomaly that appears to be associated with conglomerate at depth.
Project	Thundercloud	Survey Type	Acid	
X	534281	Hole Diameter	NQ2	
Y	5470903	Drill Operator	G&O Contractors	
z	455	Drill Rig	Longyear 38	
Azimuth	90	Grid East		
Dip	-45	Grid North		
Total Length	331.3	Start Date	24-Nov-07	
Location		End Date	12-Jun-07	
Grid		Logged by	Campbell/Turner	
Claim		Sampled by	Campbell/Turner	
NTS Mapsheet	052F07	Relogged by		

Survey Data:

Depth	Azimuth	Dip
6.0	0	-50.0

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm
0.00	3.48	OB Casing/Overburden Overburden: unrecovered.											
3.48	5.18	OB Casing/Overburden Casing/overburden (?): quite broken up pieces of basalt with same lithology as basalt from unit described below. Rusty coloration on fractured surfaces (gossanous). From 3.48 to ~4.7m, core has ~57mm diameter (casing?). Rest of core in NQ2 (50mm diameter).	E589994	3.48	5.20	1.72	0.015				3.2	0.015	
5.18	68.60	1 Mafic Volcanic (undifferentiated) Mafic volcanic: "fresh," coherent basalt. High competency. Overall coloration is blackish, occasionally with greenish tinge. (Note: fracture surfaces no longer gossanous). Very fine-grained. Below 15.6m, occasional small (1-4mm wide) blebs observed. Many are non-carbonate, and most have somewhat diffuse edges. Some are beige to pale-yellow in coloration. Varioles, or perhaps xenoliths? Don't resemble the clasts in the meta-sed units of TC07-03. * Note: see "Alteration" for variations in coloration and grain size (of alteration minerals) over this section.	E589995	5.20	7.00	1.80	0.041				5.4	0.041	
			E589996	7.00	9.00	2.00	0.006				5	0.006	
			E589997	9.00	11.00	2.00	0.011				3.7	0.011	
			E589998	11.00	13.00	2.00	0.013				2.6	0.013	
			E589999	13.00	14.50	1.50	0.052				1.4	0.052	
			E590000	14.50	15.00	0.50	0.013				4.1	0.013	
			E590001	15.00	17.00	2.00	0.019				3.2	0.019	
			E590003	17.00	19.00	2.00	0.009				9.4	0.009	
			E590004	19.00	21.00	2.00	0.004				20	0.004	
			E590005	21.00	23.00	2.00	0.004				13.6	0.004	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
Formation Name	Litho Code	Litho Description	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm

E590006	23.00	25.00	2.00	0.006							10.9	0.006	
E590007	25.00	27.00	2.00	0.011							9.1	0.011	
E590009	29.00	31.00	2.00	0.006							3.9	0.006	
E590010	31.00	33.00	2.00	0.008							5.7	0.008	
E590011	33.00	35.00	2.00	0.01							11.6	0.01	
E590012	35.00	37.00	2.00	0.017							13.6	0.017	
E590013	37.00	39.00	2.00	0.006							10.4	0.006	
E590014	39.00	41.00	2.00	0.004							9.4	0.004	
E590015	41.00	43.00	2.00	0.004							7.8	0.004	
E590016	43.00	45.00	2.00	0.003							7.1	0.003	
E590017	45.00	47.00	2.00	0.006							6.9	0.006	
E590019	47.00	49.00	2.00	0.016							17.1	0.016	
E590020	49.00	51.00	2.00	0.012							4.2	0.012	
E590021	51.00	53.00	2.00	0.006							8.6	0.006	
E590022	53.00	55.00	2.00	0.007							10.7	0.007	
E590023	55.00	57.00	2.00	0.008							14.3	0.008	
E590024	57.00	59.00	2.00	0.008							17.5	0.008	
E590025	59.00	61.00	2.00	0.01							12.9	0.01	
E590027	61.00	63.00	2.00	0.008							6.4	0.008	
E590028	63.00	65.00	2.00	0.015							3	0.015	
E590029	65.00	67.00	2.00	0.133							1.6	0.133	
E590030	67.00	68.60	1.60	0.051							1	0.051	

68.60 69.70 **5 QFP**
 QFP dyke: sharp contact at ~50 deg TCA. Speckly, pale to medium gray in coloration. 1-3 mm wide, roughly equant phenocrysts; feldspar and quartz.

E590031	68.60	69.70	1.10	0.01							13.5	0.01	
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69.70 69.80 **Bxht Breccia (hydrothermal)**
 Hydrothermal breccia (?): relatively sharp contact at ~30 deg TCA. Highly carbonatized mafic "matrix" containing chunks of QFP, which are altered to varying degrees. Possibly a large carbonate vein that arose along the contact between the QFP and basalt, ripping up parts of both lithologies.

E590032	69.70	71.00	1.30	0.008							1.5	0.008	
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From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description					ppm	ppm	ppm	ppm	ppm	ppm	ppm
69.80	139.80	1 Mafic Volcanic (undifferentiated)	E590033	71.00	73.00	2.00	0.009				11.5	0.009	
		Mafic volcanic: relatively gradual transition (over ~5cm) back to "fresh," coherent basalt. A few "variole-like" blebs still observed.	E590034	73.00	75.00	2.00	0.007				19.1	0.007	
			E590035	75.00	77.00	2.00	0.008				13.5	0.008	
			E590036	77.00	79.00	2.00	0.008				8	0.008	
			E590037	79.00	81.00	2.00	0.008				10.6	0.008	
			E590038	81.00	83.00	2.00	0.007				6.3	0.007	
			E590039	83.00	85.00	2.00	0.039				1.6	0.039	
			E590040	85.00	87.00	2.00	0.004				4.9	0.004	
			E590041	87.00	89.00	2.00	0.008				10.1	0.008	
			E590042	89.00	91.00	2.00	0.009				19.1	0.009	
			E590043	91.00	93.00	2.00	0.006				10.7	0.006	
			E590044	93.00	95.00	2.00	0.004				8.1	0.004	
			E590045	95.00	97.00	2.00	0.004				8.5	0.004	
			E590046	97.00	99.00	2.00	0.005				6.5	0.005	
			E590047	99.00	101.00	2.00	0.006				6.9	0.006	
			E590048	101.00	103.00	2.00	0.007				1.9	0.007	
			E590049	103.00	105.00	2.00	0.009				3	0.009	
			E590050	105.00	107.00	2.00	0.006				2.1	0.006	
			E590052	107.00	109.00	2.00	0.077				2.3	0.077	
			E590051	107.00	107.00	0.00	17.35	17.35			5780	17.35	
			E590053	109.00	111.00	2.00	0.107				3.8	0.107	
			E590054	111.00	113.00	2.00	0.018				3.1	0.018	
			E590056	113.00	115.00	2.00	0.012				2	0.012	
			E590057	115.00	116.00	1.00	0.054				5.2	0.054	
			E590058	116.00	117.00	1.00	0.04				4.1	0.04	
			E590059	117.00	119.00	2.00	0.013				4.2	0.013	
			E590060	119.00	121.00	2.00	0.033				2.4	0.033	
			E590061	121.00	123.00	2.00	0.017				1.8	0.017	
			E590062	123.00	125.00	2.00	0.014				2.1	0.014	
			E590063	125.00	126.20	1.20	0.1				3.1	0.1	
			E590064	126.20	127.00	1.80	0.25				4.7	0.25	
			E590065	127.00	129.00	2.00	0.041				3.1	0.041	
			E590066	129.00	131.00	2.00	0.018				3.2	0.018	
			E590067	131.00	133.00	2.00	0.053				1.6	0.053	
			E590068	133.00	135.00	2.00	0.017				2.4	0.017	
			E590069	135.00	137.00	2.00	0.041				2.8	0.041	
			E590070	137.00	139.00	2.00	0.166				2.5	0.166	
			E590071	139.00	139.80	0.80	0.228				7.5	0.228	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm				ppm	ppm	ppm	ppm	ppm	ppm	ppm
139.80	145.40	5 QFP QFP (dyke, or extrusive?): sharp contact to coherent QFP unit. Speckly, pale to medium gray in coloration. 1-3 mm wide, roughly equant phenocrysts; feldspar and quartz.	E590072	139.80	141.80	2.00	0.031				11	0.031	
			E590073	141.80	143.50	1.70	0.012				6.1	0.012	
			E590074	143.50	145.50	2.00	0.151				9.2	0.151	
145.40	161.45	1 Mafic Volcanic (undifferentiated) Mafic volcanic: dark blackish green, coherent, dominantly mg, however cg in areas (transitional boundaries b/w mg and cg sections so proposed to be massive flow with cg central sections). Moderately sharp lower contact (possible contact b/w flows) @ 161.45m @ 20 deg TCA.	E590075	145.50	147.50	2.00	0.108				3.3	0.108	
			E590076	147.50	150.00	2.50	0.026				1.9	0.026	
			E590077	150.00	152.00	2.00	0.134				1.5	0.134	
			E590078	152.00	154.00	2.00	0.091				1.5	0.091	
			E590080	154.00	156.00	2.00	0.029				0.7	0.029	
			E590079	154.00	154.00	0.00	0.004				1.3	0.004	
			E590081	156.00	158.00	2.00	0.016				2.2	0.016	
			E590082	158.00	160.00	2.00	0.034				1.5	0.034	
			E590083	160.00	161.45	1.45	0.012				2.2	0.012	
161.45	206.40	1 Mafic Volcanic (undifferentiated) Mafic volcanic: very similar to above interval. Dark blackish green, coherent, dominantly fg to mg, interval becomes transitionally coarser @ 176.5m (transitional changes in grain size may indicate massive flow)). Moderate chlorite, very weak biotite? Sulphides are dominantly trace (up to ~3% in one interval). Transitional contact @ ~ 208.3m.	E590084	161.45	163.00	1.55	0.032				3	0.032	
			E590085	163.00	165.00	2.00	0.014				3	0.014	
			E590086	165.00	167.00	2.00	0.015				2.3	0.015	
			E590087	167.00	169.00	2.00	0.01				8.2	0.01	
			E590089	169.00	171.00	2.00	0.016				16.5	0.016	
			E590090	171.00	173.00	2.00	0.017				2.4	0.017	
			E590091	173.00	175.00	2.00	0.021				2.2	0.021	
			E590092	175.00	177.00	2.00	0.009				1.4	0.009	
			E590093	177.00	179.00	2.00	0.016				1.6	0.016	
			E590094	179.00	181.00	2.00	0.013				1.3	0.013	
			E590095	181.00	183.00	2.00	0.011				2.4	0.011	
			E590096	183.00	185.00	2.00	0.017				2	0.017	
			E590097	185.00	187.00	2.00	0.022				1.5	0.022	
			E590098	187.00	189.00	2.00	0.013				2.5	0.013	
			E590099	189.00	191.00	2.00	0.036				1.2	0.036	
			E590100	191.00	193.00	2.00	0.015				2.1	0.015	
			E590101	193.00	195.00	2.00	0.018				2.7	0.018	
			E590102	195.00	197.00	2.00	0.04				2.9	0.04	
			E590103	197.00	199.00	2.00	0.041				5.1	0.041	
			E590104	199.00	201.00	2.00	0.028				4.3	0.028	
			E590105	201.00	203.00	2.00	0.007				2.1	0.007	
			E590106	203.00	205.00	2.00	0.012				1.9	0.012	
			E590107	205.00	207.00	2.00	0.053				8.2	0.053	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT. (m)	Au ICP ppm	Au Assay ppm	Ag ICP ppm	Ag Assay ppm	As ICP ppm	Au Plot ppm	As Plot ppm
		Formation Name Litho Code Litho Description											
206.40	208.30	1 Mafic Volcanic (undifferentiated) Strain zone: mafic strained to chlorite schist. Two minor fault slip zones observed. Sharp lower contact @ 40 deg TCA.	E590108	207.00	208.30	1.30	0.053				21.7	0.053	
208.30	210.60	3d Fragmental (mafic matrix) Fagmental unit (no quartz eyes observed) so proposed as monolithic fragmental. Interval is strongly strained and varies in foliation orientation. Sharp irregular lower contact @ 210.60m.	E590110	208.30	209.60	1.30	0.18				88.3	0.18	
			E590111	209.60	210.60	1.00	0.095				72.8	0.095	
210.60	222.20	2a QFP debris flow/breccia QFP heterolithic flows: QFP contains strongly altered mafic clasts (angular), ~10 % clast abundance, siliceous matrix. Sharp lower contact @ 30 deg TCA.	E590112	210.60	212.00	1.40	0.054				18.2	0.054	
			E590113	212.00	214.00	2.00	0.021				16.9	0.021	
			E590114	214.00	216.00	2.00	0.036				16.5	0.036	
			E590115	216.00	218.00	2.00	0.019				11.4	0.019	
			E590116	218.00	220.00	2.00	0.026				12.2	0.026	
			E590117	220.00	222.20	2.20	0.019				12.6	0.019	
222.20	250.00	3 Sediment Meta sediment: no evidence of primary features, strong chlorite (entire interval). Sharp lower contact @ 35 deg TCA.	E590118	222.20	224.00	1.80	0.026				8.9	0.026	
			E590119	224.00	226.00	2.00	0.035				2.9	0.035	
			E590120	226.00	228.00	2.00	0.066				3.5	0.066	
			E590121	228.00	230.00	2.00	0.014				3.9	0.014	
			E590122	230.00	232.00	2.00	0.008				17.3	0.008	
			E590123	232.00	234.00	2.00	0.01				56.6	0.01	
			E590124	234.00	236.00	2.00	0.016				91.3	0.016	
			E590125	236.00	238.00	2.00	0.013	*				0.013	
			E590126	238.00	240.00	2.00	0.027	*				0.027	
			E590127	240.00	242.00	2.00	0.038	*				0.038	
			E590129	242.00	244.00	2.00	0.017	*				0.017	
			E590130	244.00	246.00	2.00	0.014	*				0.014	
			E590131	246.00	248.00	2.00	0.009	*				0.009	
			E590132	248.00	250.00	2.00	0.009	*				0.009	

From (m)	To (m)	Geological Description		Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		<i>Formation Name</i>	<i>Litho Code Litho Description</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
								<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
250.00	252.06	5	QFP Dyke: coherent, ~3% quartz eyes. Chloritized (after hornblende crystals) felsic dyke. ~5% euhedral pyrite crystals. Moderately foliated @ ~40 - 50 deg TCA.	E590133	250.00	252.06	2.06	0.002	*				0.002	
252.06	281.90	3	Sediment Meta sediment: dark greenish grey, vfg, a few feldspar-bearing clasts (up to cm size) @ 271.1m and 274.6m (possible evidence that interval is part of conglomerate sequence). Sharp lower contact @ 65 deg TCA.	E590134	252.06	254.10	2.04	0.041	*				0.041	
				E590135	254.10	255.30	1.10	1.225	*				1.225	
				E590136	255.30	256.40	1.10	1.09	*				1.09	
				E590137	256.40	257.50	1.10	0.057	*				0.057	
				E590138	257.50	259.50	2.00	0.12	*				0.12	
				E590139	259.50	261.00	1.50	0.165	*				0.165	
				E590140	261.00	262.00	1.00	0.119	*				0.119	
				E590141	262.00	264.00	2.00	0.013	*				0.013	
				E590142	264.00	266.00	2.00	0.01	*				0.01	
				E590143	266.00	268.00	2.00	0.007	*				0.007	
				E590144	268.00	270.00	2.00	0.015	*				0.015	
				E590145	270.00	272.00	2.00	0.009	*				0.009	
				E590146	272.00	274.00	2.00	0.007	*				0.007	
				E590147	274.00	276.00	2.00	0.007	*				0.007	
				E590149	276.00	278.00	2.00	0.01	*				0.01	
				E590150	278.00	280.50	2.50	0.01	*				0.01	
				E590151	280.50	281.90	1.40	0.024	*				0.024	
281.90	295.00	5	QFP QFP dyke: Strongly siliceous, qtz eyes observed, weak alteration and pyritization. ~294m (possible altered fragments), sharp lower contact 60 deg TCA.	E590152	281.90	284.00	2.10	0.003	*				0.003	
				E590153	284.00	286.00	2.00	0.003	*				0.003	
				E590154	286.00	288.00	2.00	0.003	*				0.003	
				E590155	288.00	290.00	2.00	0.003	*				0.003	
				E590156	290.00	292.50	2.50	0.005	*				0.005	
				E590157	292.50	295.00	2.50	0.003	*				0.003	
295.00	331.31	3	Sediment Meta sediment: dark greenish grey, vfg, nondescript, crackle-brecciated by ~5% calcite veins (5mm-thick), qtz pebble (~2cm long, oblong) @ 297.2m.	E590158	295.00	297.00	2.00	0.021	*				0.021	
				E590159	297.00	299.00	2.00	0.014	*				0.014	
				E590160	299.00	301.00	2.00	0.013	*				0.013	
				E590161	301.00	303.00	2.00	0.052	*				0.052	
				E590162	303.00	305.00	2.00	0.017	*				0.017	
				E590163	305.00	307.00	2.00	0.012	*				0.012	
				E590164	307.00	309.00	2.00	0.011	*				0.011	
				E590165	309.00	311.00	2.00	0.042	*				0.042	

From (m) **To (m)** **Geological Description**
 Formation Name Litho Code Litho Description

Field N **FROM** **TO** **INT.** **Au** **Au** **Ag** **Ag** **As** **Au** **As**
 (m) ICP Assay ICP Assay ICP Assay ICP Plot Plot
 ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm

E590166	311.00	313.00	2.00	0.014	*				0.014	
E590167	313.00	315.00	2.00	0.042	*				0.042	
E590168	315.00	317.00	2.00	0.012	*				0.012	
E590169	317.00	319.00	2.00	0.008	*				0.008	
E590170	319.00	321.00	2.00	0.009	*				0.009	
E590171	321.00	323.00	2.00	0.018	*				0.018	
E590172	323.00	325.00	2.00	0.019	*				0.019	
E590173	325.00	327.00	2.00	0.008	*				0.008	
E590174	327.00	329.00	2.00	0.014	*				0.014	
E590175	329.00	331.31	2.31	0.022	*				0.022	

Hole_ID	TC07-05	Hole Type	Core	Purpose/Comments: Test mineralized conglomerates and Armstrong showing.
Project	Thundercloud	Survey Type	Acid	
X	534430	Hole Diameter	NQ2	
Y	5470623	Drill Operator	G&O Contractors	
z	455	Drill Rig	Longyear 38	
Azimuth	90	Grid East		
Dip	-45	Grid North		
Total Length	311.1	Start Date	12-Jun-07	
Location		End Date	13-Dec-07	
Grid		Logged by	Turner	
Claim		Sampled by	Turner	
NTS Mapsheet	052F07	Relogged by		

Survey Data:

Depth	Azimuth	Dip
312.1	0	-50.0

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
							ppm	ppm	ppm	ppm	ppm	ppm	ppm

0.00 10.45 **OB Casing/Overburden**

10.45 36.70 **1 Mafic Volcanic (undifferentiated)**

Basalt, dark greyish green, vfg, amygduloidal (calcite amygdules @ ~ 11.55m and pyrite-filled amygdules @ 22.40m, 35.20m, and b/w 34.5m - 35.8m). Possible pillow selvages observed b/w 14.5 - 15.0m (proposed selvages contain calcite and chlorite veins (appear replaced)). Clast observed @ 20.92m. Alteration is patchy throughout interval, however, contains moderate to strong biotite, moderate chlorite (typically associated with calcite veins). Calcite veins have irregular orientations and occur sparatically, where observed the calcite veins (which are commonly associated with chlorite), are sub to cm widths. No distinct foliation observed through interval.

E590176	10.45	11.50	1.05	0.063	*							0.063	
E590177	11.50	12.90	1.40	0.011	*							0.011	
E590178	12.90	14.50	1.60	0.022	*							0.022	
E590179	14.50	16.50	2.00	0.051	*							0.051	
E590180	16.50	18.50	2.00	0.03	*							0.03	
E590181	18.50	20.00	1.50	0.034	*							0.034	
E590182	20.00	21.00	1.00	0.035	*							0.035	
E590183	21.00	23.00	2.00	0.032	*							0.032	
E590185	23.00	25.00	2.00	0.037	*							0.037	
E590186	25.00	27.00	2.00	0.018	*							0.018	
E590187	27.00	29.00	2.00	0.025	*							0.025	
E590188	29.00	31.00	2.00	0.015	*							0.015	
E590189	31.00	33.00	2.00	0.031	*							0.031	
E590190	33.00	35.00	2.00	0.036	*							0.036	
E590191	35.00	36.70	1.70	0.028	*							0.028	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description					ppm	ppm	ppm	ppm	ppm	ppm	ppm
36.70	49.80	5 QFP Feldspar (+ minor qtz) porphyry: Interval is strongly silicious, contains typically 2-3mm long feldspar phenocrysts, no textural evidence to indicate flows, no clasts observed (proposed to be intrusive). Moderately sharp lower contact @ 49.80m (calcite veins at contact).	E590192	36.70	39.00	2.30	0.01	*				0.01	
			E590193	39.00	41.00	2.00	0.008	*				0.008	
			E590194	41.00	43.00	2.00	0.006	*				0.006	
			E590195	43.00	45.00	2.00	0.009	*				0.009	
			E590196	45.00	47.30	2.30	0.005	*				0.005	
			E590197	47.30	49.80	2.50	0.002	*				0.002	
49.80	51.30	1 Mafic Volcanic (undifferentiated) Mafic, fg, moderately altered and pyritized. No distinct foliation observed. Transitional lower contact @ 51.3m.	E590198	49.80	51.30	1.50	0.06	*				0.06	
51.30	69.30	5 QFP Feldspar (+ minor qtz) porphyry: a few mafic angular blebs (proposed to be a few fragments) observed, not enough evidence to propose it as a heterolithic fragmental (proposed to just be xenoliths). Feldspar phenocrysts are sericitized, the few mafic fragments observed appear to be biotite altered, trace pyrite, a few chlorite + calcite veins cross-cut interval (very low abundance <<1%). Sharp contact @ 69.30m @ 60 deg TCA.	E590199	51.30	53.00	1.70	0.029	*				0.029	
			E590200	53.00	55.00	2.00	0.004	*				0.004	
			E590201	55.00	57.00	2.00	0.001	*				0.001	
			E590202	57.00	59.00	2.00	0.001	*				0.001	
			E590203	59.00	61.00	2.00	0.004	*				0.004	
			E590204	61.00	63.00	2.00	0.002	*				0.002	
			E590205	63.00	65.00	2.00	0.001	*				0.001	
			E590206	65.00	67.00	2.00	0.005	*				0.005	
			E590207	67.00	69.30	2.30	0.002	*				0.002	
69.30	69.60	1 Mafic Volcanic (undifferentiated) Mafic: vfg, sharp contacts on either side of interval @ 60 deg TCA. Possibly a mafic dyke?	E590208	69.30	71.00	1.70	0.002	*				0.002	
69.60	81.08	5 QFP QFP sequence, more fragments observed (i.e. @ 72.75m, and b/w 73.4 - 73.8m), qtz eyes up to 5% abundance. Interval contains abundant silica, feldspar phenocrysts are altered to sericite, trace pyrite. Sharp lower contact @ 65 deg TCA.	E590209	71.00	73.00	2.00	0.003	*				0.003	
			E590210	73.00	75.00	2.00	0.004	*				0.004	
			E590212	75.00	77.00	2.00	0.011	*				0.011	
			E590213	77.00	79.00	2.00	0.028	*				0.028	
			E590214	79.00	81.08	2.08	0.008	*				0.008	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>		<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>	<i>Litho Code Litho Description</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
								<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
81.08	82.20	1	Mafic Volcanic (undifferentiated) Mafic: vfg, strong chlorite alteration, sharp contacts on either side of interval @ 65 deg TCA. Possibly a mafic dyke?	E590215	81.08	82.20	1.12	0.004	*				0.004	
82.20	107.30	5	QFP Feldspar (+ minor qtz) porphyry: feldspar phenocrysts up to ~0.5cm long in areas (i.e. 96.4m), trace pyrite, very similar to interval b/w 69.6 - 81.08m, feldspar phenocrysts are sericite altered. Sharp irregular lower contact @ 107.30m.	E590216	82.20	84.00	1.80	0.001	*				0.001	
				E590217	84.00	86.00	2.00	0.005	*				0.005	
				E590218	86.00	88.00	2.00							
				E590228	106.00	107.30	1.30	0.003					0.003	
107.30	111.95	5	QFP QFP: large quartz eyes observed (up to 20 - 30% abundance), pyrite is ~2-3% abundance (disseminated). Sharp lower contact @ 35 deg TCA.	E590229	107.30	109.00	1.70	0.017					0.017	
				E590230	109.00	110.50	1.50	0.049	*				0.049	
				E590231	110.50	111.95	1.45	0.023	*				0.023	
111.95	112.65	Vn	Vein Calcite vein (dominantly white with pink blotches) + quartz blebs. Blotchy sulphides (occurs with insoluble residues), sulphides up to 15% in zones.	E590232	111.95	112.65	0.70	0.101	*				0.101	
112.65	116.80	5	QFP QFP: relatively coherent, minor crackle-brecciated in sections, strongly siliceous. Veins that crackle-brecciate interval are dominantly sericite (sub-mm thick). Sharp lower contact @ ~15 deg TCA.	E590233	112.65	114.00	1.35	0.057	*			15.3	0.057	
				E590234	114.00	115.50	1.50	0.022	*			17.9	0.022	
				E590235	115.50	116.80	1.30	0.022	*			13.1	0.022	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT. (m)	Au ICP ppm	Au Assay ppm	Ag ICP ppm	Ag Assay ppm	As ICP ppm	Au Plot ppm	As Plot ppm
		Formation Name Litho Code Litho Description											
116.80	117.50	1 Mafic Volcanic (undifferentiated) Mafic, vfg, strong biotite alteration overall, ~3-5% sulphides (occur as discontinuous veinlets), sharp lower contact @ 30 deg TCA.	E590236	116.80	117.50	0.70	0.126	*			25.2	0.126	
117.50	148.65	5 QFP QFP: qtz eyes up to ~0.5cm long @ ~ 121.65m, no fragments observed, however, mottled appearance to interval. Interval is weakly sulphidized. Sharp lower contact @ 30 deg TCA.	E590237	117.50	119.50	2.00	0.252	*			18.3	0.252	
			E590238	119.50	121.65	2.15	0.167	*			18.5	0.167	
			E590239	121.65	123.50	1.85	0.155	*			21.5	0.155	
			E590240	123.50	125.00	1.50	0.154	*			23.9	0.154	
			E590241	125.00	127.00	2.00	0.167	*			31.2	0.167	
			E590242	127.00	129.00	2.00	0.055	*			24.1	0.055	
			E590243	129.00	131.00	2.00	0.073	*			27.5	0.073	
			E590244	131.00	133.00	2.00	0.067	*			25.8	0.067	
			E590245	133.00	135.00	2.00	0.053	*			27.9	0.053	
			E590247	135.00	137.00	2.00	0.093	*			22.4	0.093	
			E590248	137.00	139.00	2.00	0.086	*			22.1	0.086	
			E590249	139.00	141.00	2.00	0.05	*			23.6	0.05	
			E590250	141.00	143.00	2.00	0.056	*			25.9	0.056	
			E590251	143.00	145.00	2.00	0.04	*			23.4	0.04	
			E590252	145.00	147.00	2.00	0.031	*			16	0.031	
			E590253	147.00	148.65	1.65	0.04	*			16.7	0.04	
148.65	153.65	3 Sediment Meta sediment: Dark greyish green with brown patches, vfg, featureless unit, no clasts observed, transitional contact @ ~153.65m with conglomerate unit below.	E590254	148.65	150.50	1.85	0.014	*			2.9	0.014	
			E590255	150.50	152.00	1.50	0.016	*			2.1	0.016	
			E590256	152.00	153.50	1.50	0.046	*			6	0.046	
			E590257	153.50	155.00	1.50	0.125	*			36.6	0.125	
153.65	159.35	3a Conglomerate Conglomerate: heterolithic composition (mafic and cherty clasts observed, some clasts totally pyritized), variation in fragment size (typically from mm to cm-size) and angularity, matrix includes qtz eyes in areas. Transitional contact @~ 159.35m b/w conglomerate (above) and QFP (below).	E590258	155.00	156.00	1.00	0.768	*			30	0.768	
			E590259	156.00	157.00	1.00	0.061	*			27	0.061	
			E590260	157.00	158.00	1.00	0.034	*			16.6	0.034	
			E590261	158.00	159.35	1.35	0.102	*			44.9	0.102	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name	(m)			(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code Litho Description	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
159.35	169.20	2a QFP debris flow/breccia QFP: overall mottled appearance to interval, quartz eyes vary in size (up to ~0.5cm long), fragments observed b/w 162.2 - 162.8m (possible evidence for QFP fragmental flow interval), ~2% disseminated pyrite through interval (consistently), sharp lower contact @ 40 deg TCA.	E590262	159.35	161.00	1.65	0.158	*			31.5	0.158	
169.20	172.80	3a Conglomerate Conglomerate: 165.2 - 170.0m and 172.2m fragments observed; milled lower contact. Minor interval b/w 171.7 - 172.5m chloritized, vfg metamorphosed mudstone (still contains ~2-3% clasts in minor interval).. Intevals b/w 169.2 - 187.28m is a sequence of clast-rich conglomerate units intercalated with vfg (metamudstone) chloritic intervals; possible turbiditic sequence?	E590263	169.20	170.00	0.80	0.157	*			27.3	0.157	
			E590264	170.00	171.70	1.70	0.572	*			28.1	0.572	
			E590265	171.70	172.50	0.80	0.654	*			11.6	0.654	
			E590266	172.50	172.80	0.30	0.129	*			26.5	0.129	
172.80	181.00	3 Sediment Meta sediment: vfg, chloritized, mottled botite alteration in sections, realtively featureless interval, transitional contact @ ~181.0m where clasts are intruded in low abundance (transition into higher energy environment).	E590267	172.80	174.00	1.20	0.075	*			5.5	0.075	
			E590268	174.00	176.00	2.00	0.074	*			4.9	0.074	
			E590269	176.00	178.00	2.00	0.137	*			3.7	0.137	
			E590270	178.00	180.00	2.00	0.022	*			3.5	0.022	
			E590271	180.00	182.00	2.00	0.191	*			3.5	0.191	
181.00	187.28	3a Conglomerate Transition into conglomerate unit: clasts vary in size and degree of angularity, heterolithic composition (QFP and strongly biotite-altered clasts observed). Clast abundance b/w 183 - 187.28m ~ 5 - 10%. Sharp lower contact @ 30 deg TCA with QFP fragmental flows.	E590272	182.00	184.00	2.00	0.041	*			3	0.041	
			E590273	184.00	186.00	2.00	0.117	*			5.5	0.117	
			E590274	186.00	187.28	1.28	0.057	*			9.6	0.057	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
		<i>Litho Description</i>											
187.28	190.15	2a QFP debris flow/breccia QFP debris flows, dark grey with brownish black patches, fragments observed in matrix b/w 187.28 - ~ 188m, sharp lower contact @ 30 deg TCA.	E590275	187.28	189.00	1.72	0.078	*			24.2	0.078	
			E590276	189.00	190.15	1.15	0.076	*			18.3	0.076	
190.15	200.05	3a Conglomerate Conglomerate: abundant heterolithic clasts, vary in size and angularity, overall clast abundance is b/w 20-25%, up to 35-50% locally (i.e. 197 - 200.3m), very large feldspar porphyry clast observed @ 199.70m. Sharp lower contact @ 55 deg TCA.	E590277	190.15	191.50	1.35	0.162	*			29.4	0.162	
			E590278	191.50	193.00	1.50	0.082	*			11.9	0.082	
			E590279	193.00	195.00	2.00	0.124	*			10.6	0.124	
			E590280	195.00	197.00	2.00	0.06	*			6.1	0.06	
			E590281	197.00	198.50	1.50	0.044	*			6.9	0.044	
			E590282	198.50	200.05	1.55	0.029	*			6	0.029	
200.05	201.35	6 Mafic dyke Dyke, appears to contain fragments @ ~ 200.50m, cut by shallow angle irregular (~0.5-1cm wide) calcite/chlorite veins (~4-5% overall abundance), contains moderate silica, ~3% disseminated pyrite.	E590283	200.05	201.35	1.30	0.031	*			5	0.031	
201.35	203.38	3a Conglomerate Conglomerate: moderate clasts b/w 201.35 - 201.70m (dominantly QFP clasts observed), interval grades with depth into vfg chloritized interval (metamudstone).	E590285	201.35	203.38	2.03	0.02	*			7.6	0.02	
203.38	207.80	2a QFP debris flow/breccia QFP fragmental flow: Overall interval is light grey, strongly siliceous, contains heterolithic fragments (selectively strongly biotite altered, preferentially pyritized, commonly angular), a few irregular carbonate veins (~2 mm wide) cut interval @ irregular orientations. QFP matrix b/w clasts is strongly siliceous and does not typically contain sulphides.	E590286	203.38	204.50	1.12	0.029	*			15.1	0.029	
			E590287	204.50	207.80	3.30	0.041	*			17.9	0.041	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name Litho Code Litho Description	(m)				ICP	Assay	ICP	Assay	ICP	Plot	Plot
			ppm				ppm	ppm	ppm	ppm	ppm	ppm	ppm
207.80	209.00	3a Conglomerate Conglomerate: Dark greyish black matrix, ~25% clasts, heterolithic (mafic and QFP clasts observed), vary in size and angularity. Pyrite occurs in matrix as well as replacing clasts. Sharp lower contact @ 20 deg TCA.	E590288	207.80	209.00	1.20	0.039	*			25.2	0.039	
209.00	216.00	2a QFP debris flow/breccia QFP fragmental flow: light grey mottled colouration with dark patches, QFP fragments vary in size, strong silica, moderate biotite in areas, ~2% calcite veins in areas (i.e. b/w 210.5-211.0m), moderate pyrite through interval. Transitional contact @ ~ 216.0m.	E590289	209.00	210.50	1.50	0.152	*			35.4	0.152	
			E590290	210.50	212.00	1.50	0.07	*			27.7	0.07	
			E590291	212.00	213.50	1.50	0.034	*			28.2	0.034	
			E590292	213.50	215.00	1.50	0.03	*			22.4	0.03	
			E590293	215.00	216.00	1.00	0.053	*				0.053	
216.00	236.90	2a QFP debris flow/breccia QFP flow: Interval has a lighter colouration than previous interval (beige to brown colouration) and a mottled appearance, which reflects that this interval has been sericitized (moderate - strong) and has a relative decrease in silica. No distinct foliation observed. Interval is relatively featureless so can't conclude that it is a flow, but QFP in this section is bracketed by sediment intervals.	E590295	216.00	218.00	2.00	0.095	*				0.095	
			E590296	218.00	220.00	2.00	0.07	*				0.07	
			E590297	220.00	222.00	2.00	0.076	*				0.076	
			E590298	222.00	224.00	2.00	0.035	*				0.035	
			E590300	224.00	226.00	2.00	0.029				9.1	0.029	
			E590301	226.00	228.00	2.00	0.04				10.2	0.04	
			E590302	228.00	230.00	2.00	0.028				8.5	0.028	
			E590303	230.00	232.00	2.00	0.051				9.3	0.051	
			E590304	232.00	234.00	2.00	0.335				8.3	0.335	
			E590305	234.00	235.50	1.50	0.226				17.4	0.226	
			E590306	235.50	236.90	1.40	0.134				12.7	0.134	
236.90	237.90	3a Conglomerate Conglomerate: Heterolithic fragments, strongly altered, moderately sulphidized, sharp lower contact @ 20 deg TCA.	E590307	236.90	237.90	1.00	0.985				32.6	0.985	

<i>From (m)</i>	<i>To (m)</i>	<i>Geological Description</i>	<i>Field N</i>	<i>FROM</i>	<i>TO</i>	<i>INT.</i>	<i>Au</i>	<i>Au</i>	<i>Ag</i>	<i>Ag</i>	<i>As</i>	<i>Au</i>	<i>As</i>
		<i>Formation Name</i>				<i>(m)</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Assay</i>	<i>ICP</i>	<i>Plot</i>	<i>Plot</i>
		<i>Litho Code</i> <i>Litho Description</i>					<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>	<i>ppm</i>
237.90	245.20	3 Sediment Meta sediment: dark greyish green, a few clasts observed, moderate - strong alteration, typically weak sulphides however locally up to moderate. Transitional lower contact.	E590308	237.90	239.35	1.45	0.075				11.5	0.075	
			E590309	239.35	241.00	1.65	0.017				4.2	0.017	
			E590310	241.00	242.50	1.50	0.029				3	0.029	
			E590311	242.50	244.00	1.50	0.016				1.7	0.016	
			E590312	244.00	245.20	1.20	0.032				3.7	0.032	
245.20	246.55	3a Conglomerate Conglomerate: clast-rich interval, moderate - strong alteration, moderate sulphides, sharp lower contact with mafic dyke.	E590313	245.20	246.55	1.35	0.123				10.7	0.123	
246.55	246.90	6 Mafic dyke Mafic dyke, appears fresh	E590314	246.55	246.90	0.35	0.015				2.9	0.015	
246.90	248.00	2a QFP debris flow/breccia Heterolithic fragments, interval varies in extent of alteration, moderately pyritized, transitional contact @ ~248m (speculative contact based on variation in fragment abundance and alteration extent). Grades into proposed QFP flows that appear more uniform.	E590315	246.90	248.00	1.10	0.084				14.2	0.084	
248.00	261.45	2a QFP debris flow/breccia QFP: Interval more uniform (a few biotite altered clasts observed), moderately altered, no flow textures observed (however possibly more massive section of flow), sharp lower contact @ 45 deg TCA.	E590316	248.00	250.00	2.00	0.058				14.2	0.058	
			E590317	250.00	252.00	2.00	0.043				11.7	0.043	
			E590318	252.00	254.00	2.00	0.093				9.6	0.093	
			E590319	254.00	256.00	2.00	0.06				11.8	0.06	

From (m)	To (m)	Geological Description	Field N	FROM	TO	INT.	Au	Au	Ag	Ag	As	Au	As
		Formation Name				(m)	ICP	Assay	ICP	Assay	ICP	Plot	Plot
		Litho Code	Litho Description				ppm	ppm	ppm	ppm	ppm	ppm	ppm

261.45 267.90 **6 Mafic dyke**
 Dyke: med greenish grey, fg, contains moderate silica (so possibly more felsic than mafic in composition), appears relatively fresh, sharp lower contact @ 40 deg TCA.

267.90 304.25 **2a QFP debris flow/breccia**
 Very similar to interval b/w 148.0 - 261.45m. Interval is beige to dark brown, mottled appearance, overall varies in extent of silicification (i.e. b/w 274.1 - 277.0m interval grades to contain more silica and less sericite), quartz eyes up to ~0.3cm long observed, sharp lower contact @ 35 deg TCA.

E590320	282.00	284.00	2.00	0.188						13	0.188		
E590321	295.70	297.70	2.00	0.114						16.2	0.114		
E590323	303.00	304.25	1.25	0.04						11.7	0.04		

304.25 312.11 **3 Sediment**
 Meta sediment: med - dark greyish green, moderately altered and sulphidized around contact (304.25 - 304.65m), however, transitions into poorly altered and sulphidized interval with depth.

E590324	304.25	304.65	0.40	0.07						9.2	0.07		
E590325	304.65	306.00	1.35	0.027						4	0.027		
E590326	306.00	308.00	2.00	0.033						0.6	0.033		
E590327	308.00	310.00	2.00	0.019						4.2	0.019		
E590328	310.00	312.11	2.11	0.034						1.2	0.034		

APPENDIX III
I.P. Survey Report

ABITIBI

GEOPHYSICS

TECK COMINCO LIMITED EXPLORATION
RESISTIVITY / INDUCED POLARIZATION SURVEY

THUNDERCLOUD PROJECT
KENORA DISTRICT
ONTARIO, CANADA

LOGISTICS AND INTERPRETATION REPORT
07N024 JUNE 2007

1746, CH. SULLIVAN, VAL-D'OR (QUEBEC) J9P 7H1

TEL.: 819-874-8800 FAX: 819-874-8801

WWW.AGEOPHYSICS.COM

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ABSTRACT

On behalf of Teck Cominco Limited Exploration, a resistivity/induced polarization survey was performed over the Thundercloud Project, located in the Dryden area of northwestern Ontario.

During the month of May 2007, a total of 17.6 km of IP surveying acquired in the pole-dipole configuration (electrode spacing of $a = 50$ m and number of dipoles $n = 1$ to 6) was carried out over the property. Survey specifications, instrumentation control, data acquisition, processing and interpretation were all successfully performed within our Quality System framework.

*Following meticulous interpretation of pseudosections and **image2D**[®] true-depth sections, seventeen chargeability anomalous trends were identified over the Thundercloud Property. They have been posted on both the pseudosection plates and the Interpretation Map (10.0). Some initial prospecting has been recommended over fourteen anomalies likely resulting from subcropping-outcropping sources. Pending results, follow-up drilling could be carried out over six of the most promising anomalies. In order to establish consistent IP trends and thereby better evaluate the potential of these anomalies, an IP survey extension over the southern part of the grid and a magnetic survey covering the entire grid area should definitely be carried out prior further recommendations.*

1. THE MANDATE

- PROJECT ID** **Thundercloud**
(Our reference: 07N024)

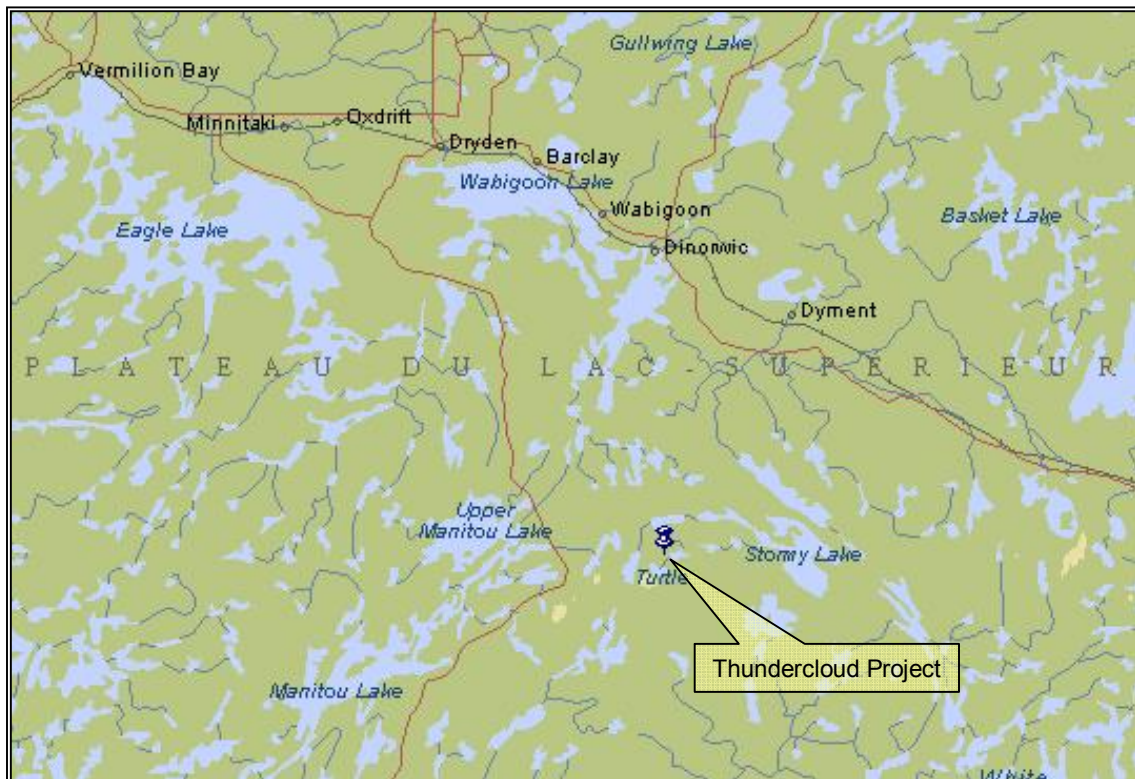
- GENERAL LOCATION** 50 km southeast of Dryden, northwestern Ontario.

- CUSTOMER** **Teck Cominco Limited Exploration**
855 Field Street
Thunder Bay, ON P7B 6B6
Telephone: (807) 346-4322 Fax: (807) 346-4328

- REPRESENTATIVE** **Mr. Graeme Evans, B.Sc., P.Geo.**
Senior Geologist
Graeme.Evans@teckcominco.com

- SURVEY TYPE** • **Time Domain Resistivity / Induced Polarization**

- GEOPHYSICAL OBJECTIVES**
 - Identification of potential DDH targets and of a follow-up geophysical campaign.
 - Assess the potential for gold and base metals mineralization.
 - Assist in lithological discrimination and structure mapping.



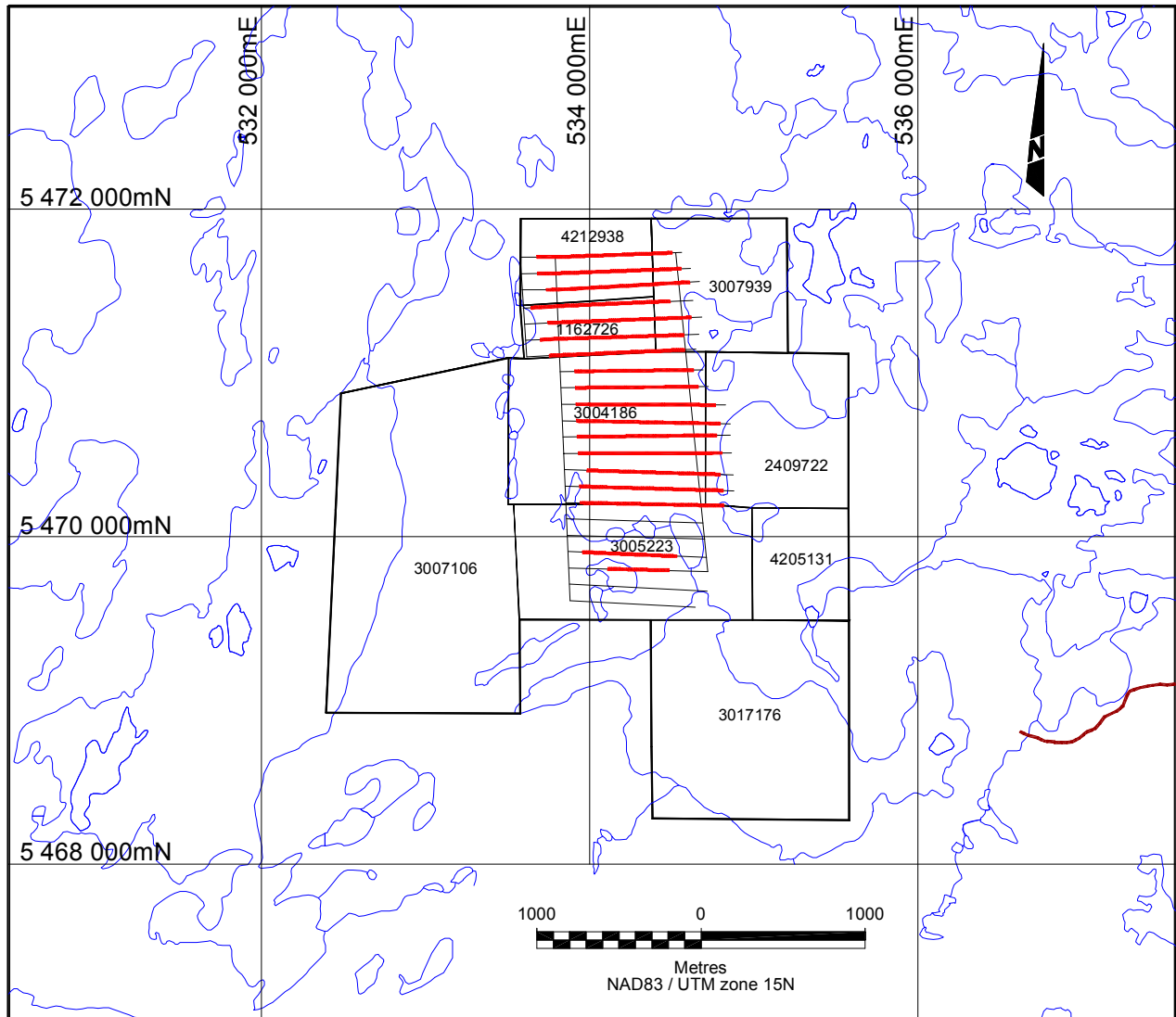
GENERAL LOCATION OF THE THUNDERCLOUD PROJECT

2. THE THUNDERCLOUD PROJECT

- LOCATION* Kenora District
Northwestern Ontario, Canada
Centred on 49° 23' N and 92° 27' W
NTS sheet: **52F/07**
- NEAREST SETTLEMENTS* Dryden: 50 km to the northwest
Thunder Bay: 250 km to the southeast
- ACCESS* From Dryden, drive east onto Highway 17 for about 40 km. Just past Jackfish Lake, turn south on a logging road and continue for approximately 35 km. At that point, the road crosses the Thundercloud Property.
- GEOMORPHOLOGY* The property is located within relatively hilly terrain with maximum elevation reaching values of approximately 50 m above local water level. Some outcropping areas are locally exposed throughout the property. A few swamps and small interconnected lakes are located within the most depressed areas of the grid. Thundercloud Lake is located just south of the grid while Kennewapekko Lake and Washeibemaga Lake respectively border the west and east sides of the survey area.
- CULTURAL FEATURE* Logging roads cross the property without any apparent effect on data quality.
- LAND TENURE* The claim numbers encompassed in the present survey are illustrated on the following page.
- SURVEY GRID* The survey grid was cut during the winter of 2007, just prior to the geophysical campaign. It consists of twenty east-west trending cross-lines (lines 698+00N to 717+00N) cut at a nominal spacing of 100 m. These lines are 1 km long and extend eastwardly from tie-line 36+00E in the northern part of the grid and from tie-line 38+00E in the southern area. All lines are picketed every 25 m.

The survey grid was thereafter accurately positioned using GPS points recorded at end of lines. The survey area covering the Thundercloud Project is illustrated on the next page.

Note that logging activities going on at the time of the geophysical campaign prevented survey coverage over a few southern lines of the grid.
- COORDINATE SYSTEM* Projection: Universal Transverse Mercator
Datum: NAD83
Central meridian: 93°00' W (UTM Zone 15N)



INDEX OF CLAIMS AND SURVEY AREA OF THE THUNDERCLOUD PROJECT

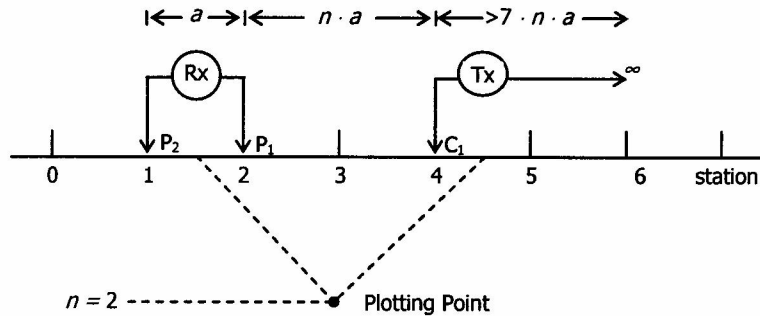
3. RESISTIVITY / INDUCED POLARIZATION SURVEY

☐ *TYPE OF SURVEY*

Time domain resistivity / induced polarization

Pole-dipole array, "a" = 50 m, "n" = 1 to 6

UTM Location (NAD83) of C_{∞} : 536 385 mE / 5 469 266 mN



☐ *PERSONNEL*

Israël Bacon,	crew chief, geophysical operator
Francis Thibeault,	field assistant
Daniel Ricard,	field assistant
Bruno Tremblay,	field assistant
Yoan Hébert Lapointe,	field assistant
Carole Picard, Tech.,	data processing & plotting
Helene Rivest, Geo.,	fieldwork supervision, logistics, QC & interpretation

☐ *DATA ACQUISITION*

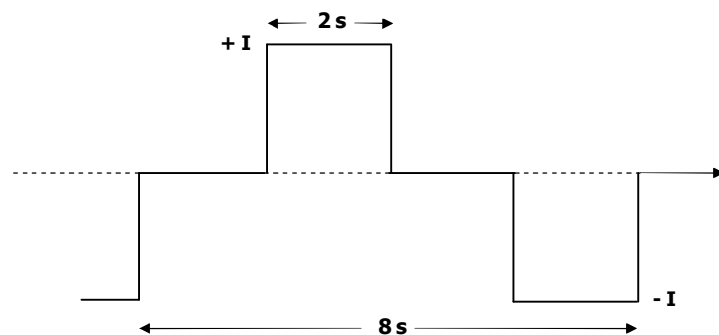
May 22 to 30, 2007.

☐ *SURVEY COVERAGE*

17.6 km

☐ *IP TRANSMITTER (TX)*

GDD Instrument TxIII, s/n 260
 Power supply: Honda 2000 W
 Maximum output: up to 1.8 kW or **10 A** or 2000 V
 Electrodes: stainless steel stakes
 Resolution: 1 mA on output current display I
 Waveform: bipolar square wave with 50% duty cycle
 Pulse duration: 2 seconds



□ *IP RECEIVER (RX)*

IRIS Elrec-PRO, s/n 104, 10 input channels model

Electrodes: stainless steel stakes

V_P Primary voltage measurement:

✧ Input impedance: 100 MΩ

✧ Resolution: 1 μV

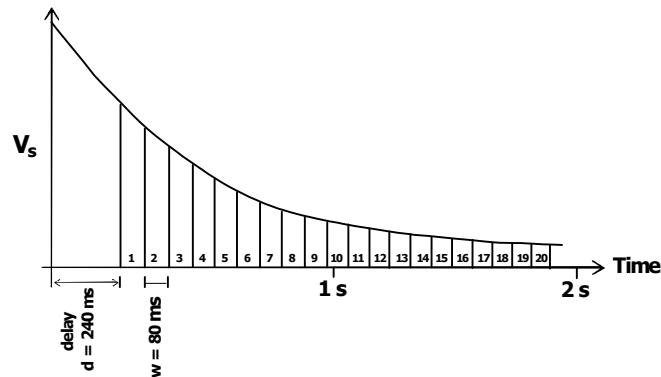
✧ Typical accuracy: 0.2%

M_a Apparent chargeability measurement:

✧ Resolution: 0.01 mV/V

✧ Typical accuracy: 0.4%

✧ Arithmetic sampling mode, 20 time slices (M_1 to M_{20})



✧ All windows are normalized with respect to a standard decay curve for QC in the field.

□ *APPARENT RESISTIVITY CALCULATION*

$$\rho_a = 2 \cdot \pi \cdot \frac{V_P}{I} \cdot n \cdot (n + 1) \cdot a \quad (\text{in } \Omega \cdot \text{m})$$

Cumulative error: 5% max, mainly due to chaining accuracy.

□ *QUALITY CONTROL*
(RECORDS AVAILABLE UPON REQUEST)

Before the survey:

- ✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
- ✓ Receiver was checked using the Abitibi Geophysics SIMP™ certified and calibrated V_P & M signal simulator.

During data acquisition:

- ✓ Rx & Tx cable insulation was verified every morning.
- ✓ Proprietary Software *Refusilo*® allowed a daily thorough monitoring of data quality and survey efficiency.
- ✓ Enough pulses were stacked: 6 pulses for every reading.

At the Base of Operations:

- ✓ Field QCs were inspected & validated.
- ✓ Each IP decay curve was analyzed with *Refusilo*®. The few windows that were rejected were not included in the calculation of the plotted M_a .

☐ *QUALITY STATISTICS*

Pole-dipole: a = 50 m, n= 1 to 6		Thundercloud Project
Average contact resistance at the R _x		8 kΩ
Average output current across C ₁ -C ₂		370 mA
Average measured voltage V _p across P ₁ -P ₂	n = 1	5010 mV
	n = 6	580 mV
Observed gates found to fit a pure electrode polarization relaxation curve		98.9 %
Average deviation of the validated normalized gates with respect to the plotted mean chargeabilities	n = 1	0.03 mV/V
	n = 6	0.12 mV/V

4. DATA PROCESSING AND DELIVERABLES

TRUE-DEPTH IP SECTIONS

Apparent resistivity and chargeability pseudosections were inverted using our proprietary *image2D*[®] package. The process is fully automated as there is no need to guess a starting model or to filter the pseudosection to generate one. The ground is divided in cells of ^a/₄ side and a back-projection of the raw data is performed.

The result is a smooth earth model showing all conductive, resistive and polarizable sources. The resulting true-depth sections integrate all possible solutions, highlighting the most probable ones.

A synthetic example showing the ability of *image2D*[®] to resolve sources and to facilitate the location of DDH is presented on page 9.

*PRECISIONS CONCERNING *image2D*[®]*

Imaging cannot create information that is not in the raw data set (pseudosections), i.e., the limitations of the technique and array that was used will still prevail. With pole-dipole, for instance, resolution is asymmetrical and vertical sources may show a false dip. However, noise is efficiently rejected, near-surface effects are easily identified and complex responses, such as two adjoining sources, a wide body or a dipping geological contact, are well resolved.

This imaging process will not recover intrinsic resistivities unless the source is very wide. However, as opposed to pseudosections, geological data from drill-holes may be superimposed on *image2D*[®] true-depth sections.

MAPS PRODUCED

The following colour maps are bound or inserted in pouches at the end of this report. Our Quality System requires that every final map be inspected by at least two qualified persons before being approved and included within a final report.

Map Number	Description	Scale
Lines 717+00N to 702+00N, 699+00N & 698+00N (18 plates)	Colour Apparent Resistivity & Chargeability Pseudosections and <i>image2D</i> [®] True-depth Sections along with Interpretation	1: 5000
8.2	IP Survey - <i>image2D</i> [®] Resistivity at a depth of 60 m	1: 5000
8.3	IP Survey - <i>image2D</i> [®] Chargeability at a depth of 60 m	1: 5000
8.5	IP Survey - <i>image2D</i> [®] Time Constant at a depth of 60 m	1: 5000
10.0	Geophysical Interpretation	1: 5000

DIGITAL DATA

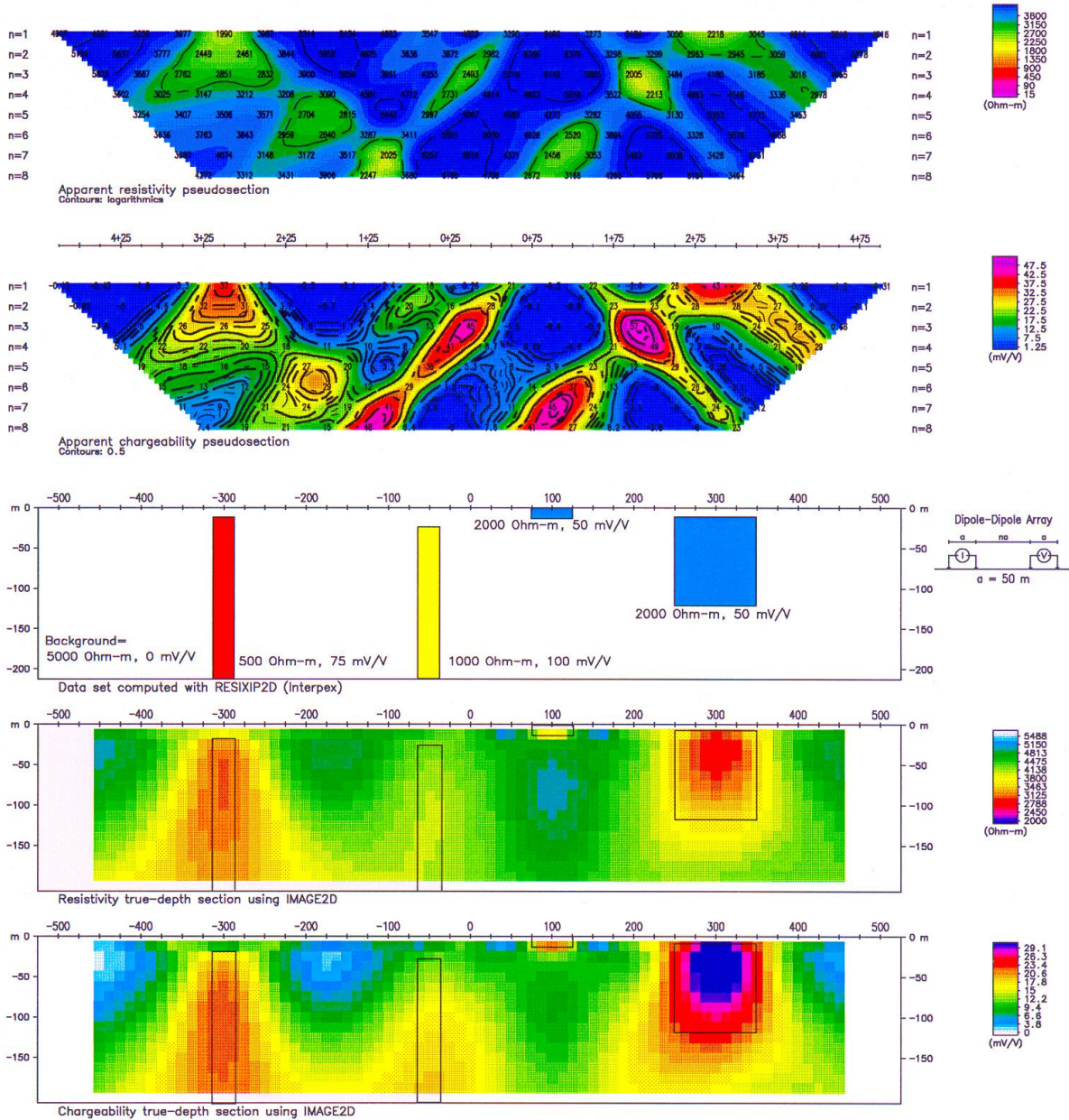
The above-described maps are delivered in the Oasis Montaj map file format on CD-Rom.

A copy of all survey acquisition data (ASCII text format) and processed data (Geosoft Montaj databases) are also delivered on CD-Rom.

image2D[®] demo on synthetic datasets

Top half of figure: classic apparent resistivity and chargeability pseudosections.

Centre of plate: the synthetic model that generates these pseudosections.



Bottom half of figure: the reconstructed resistivity and chargeability true-depth sections after inversion of the pseudosections using *image2D*[®]. The model is superimposed on these sections.

5. RESULTS AND RECOMMENDATIONS

□ *RESISTIVITY AND CHARGEABILITY MAPS*

Following interpretation of pseudosections and *image2D*[®] true-depth sections, seventeen polarizable anomalous trends were compiled on the Thundercloud Project. These anomalies have been correlated from line-to-line according to their strength, resistivity association and the general strike orientation. The inferred surface projection of their IP signatures are shown along the survey lines on both the Geophysical Interpretation Map (10.0) and the pseudosection plates. They are briefly discussed in the section below but **refer to the Appendix found at the end of this report for a more detailed description of each of these anomalies**. In summary, an extensive initial prospecting program was recommended over fourteen anomalous trends interpreted as resulting from subcropping sources. Pending prospecting results, six of the most interesting anomalous trends (**TH-01, TH-02, TH-04, TH-07, TH-08 & TH-12**) may warrant follow-up drilling. An IP survey extension recommended over the southern area along with a magnetic survey carried out over the entire grid would help to establish consistent polarizable trends in this area.

The chargeability map plotted at a depth of 60 m shows a local north-south orientation of higher values. However, a high amplitude chargeability feature located within the northern section of the grid (lines 712+00N, 713+00N & 714+00N) could actually be interpreted as WSW-ENE trending instead of being part of N-S trending anomalies **TH-01, TH-02, TH-03 & TH-04**. These higher chargeability values also seem to correspond to slightly more conductive values (resistivity map). Such a feature cross-cutting the local geology could result from an intrusive mafic dyke. A magnetic survey would confirm this possibility.

The resistivity map plotted at a depth of 60 m consists of generally resistive values ranging from 2000 to 35 000 Ohm-m. On the Geophysical Interpretation Map (10.0), the 10 000 Ωm contour line (resistivity map #8.2) was chosen to delineate the more resistive zones. These zones were then shaded in blue on the Geophysical Interpretation Map (10.0) and represent areas where bedrock is likely subcropping to outcropping.

Pending prospecting results, IP survey extensions could be carried out over several open-ended chargeability trends or single-line anomalies (**TH-09, TH-12, TH-13, TH-14, TH-15 and TH-17**).

An E-W fault was inferred from a possible disruption observed from the interpreted IP trends. A magnetic survey would help confirm the presence of such feature.

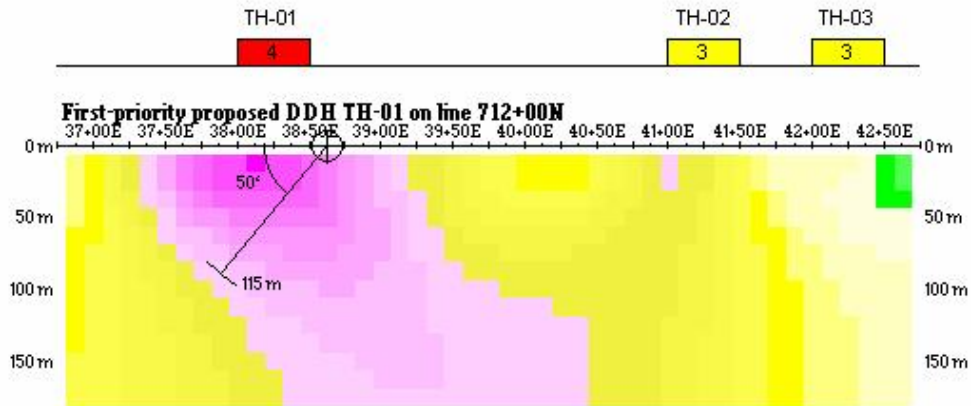
□ *COLE-COLE TIME CONSTANT MAP*

The Cole-Cole time constant map plotted at a depth of 60 m has revealed a few higher values areas corresponding to a few interpreted IP anomalies (**TH-01, TH-02, TH-08 & TH-09**). This parameter helps with mineral discrimination and higher values are generally indicative of the presence of clay altered minerals (OH-). All the above-mentioned IP anomalies thus result as higher potential targets for gold mineralization.

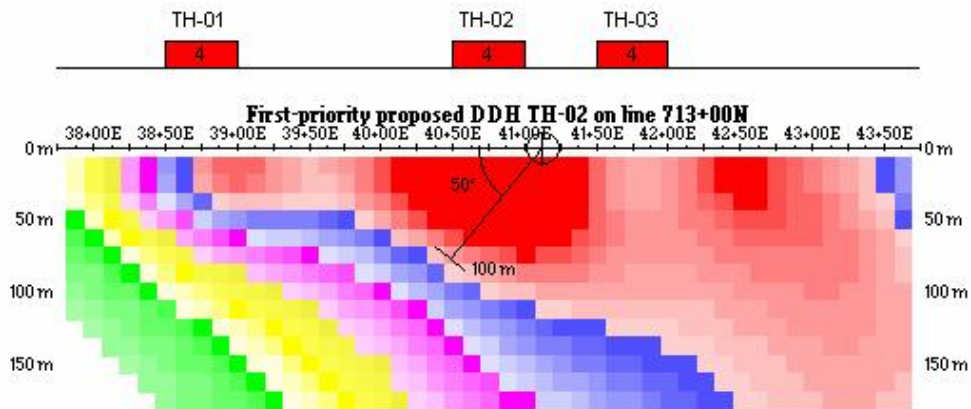
All-priority DDH targets are illustrated hereafter on their respective chargeability true depth sections. (Suggested initial prospecting over these DDH targets is indicated by *)

- *FIRST-PRIORITY DDH TARGETS: (TH-01*, TH-02* & TH-08*)*

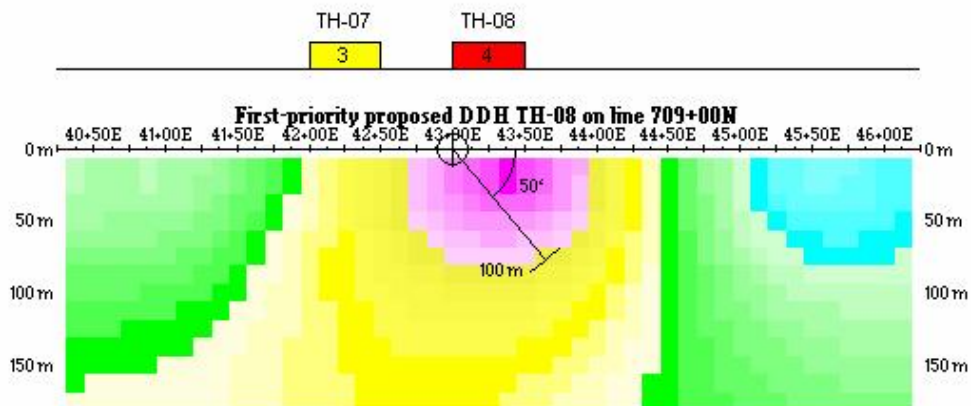
First-priority proposed DDH TH-01 on line 712+00N:



First-priority proposed DDH TH-02 on line 713+00N:

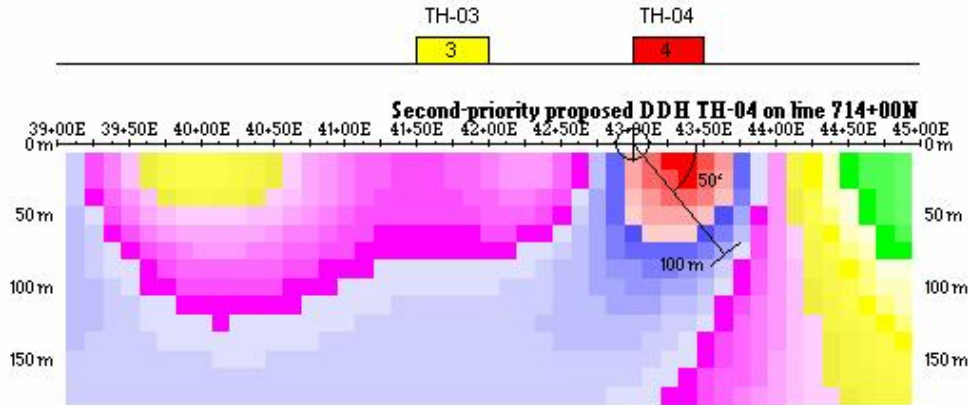


First-priority proposed DDH TH-08 on line 709+00N:

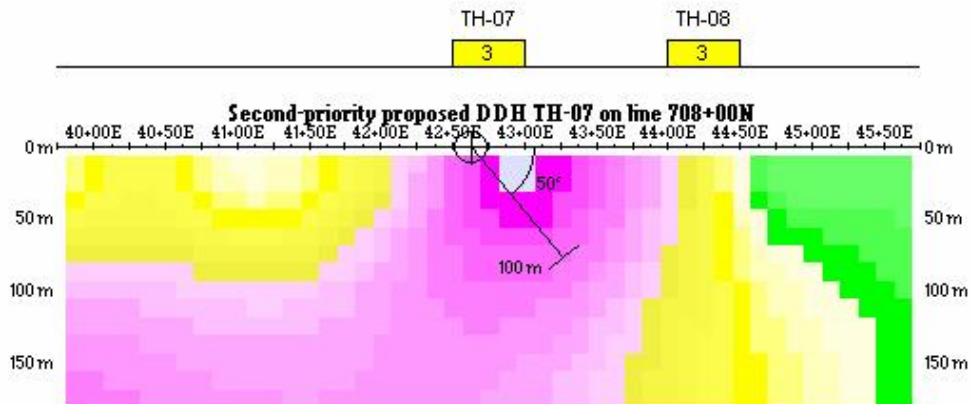


- SECOND-PRIORITY DDH TARGETS: (TH-04, TH-07 & TH-12)

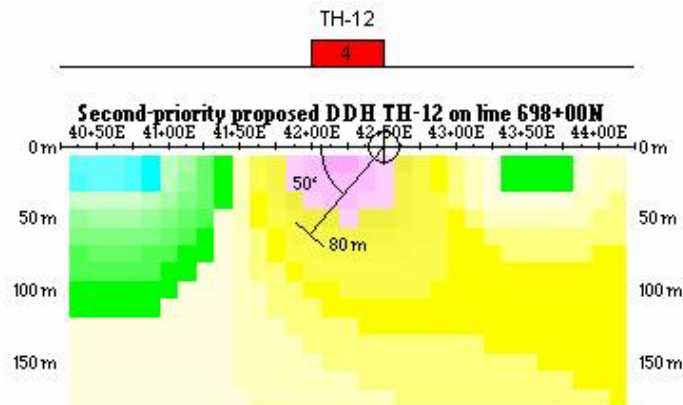
Second-priority proposed DDH TH-04 on line 714+00N:



Second-priority proposed DDH TH-07 on line 708+00N:



Second-priority proposed DDH TH-12 on line 698+00N:



6. FOLLOW-UP SUMMARY

PROSPECTING

Priority	Anomaly	Location	
		Line	Station
1	TH-01	712+00N	38+25E
		713+00N	38+75E
		714+00N	38+25E
		715+00N	38+75E
	TH-02	713+00N	40+75E
	TH-03	713+00N	41+75E
	TH-08	709+00N	43+25E
		710+00N	43+25E
	TH-09	702+00N	39+50E
		703+00N	39+25E
705+00N		39+25E	
TH-13	699+00N	40+75E	
2	TH-04	714+00N	43+25E
	TH-07	706+00N	43+25E
		708+00N	42+75E
	TH-10	705+00N	41+25E
	TH-12	698+00N	42+25E
	TH-15	702+00N	42+25E
TH-16	715+00N	44+00E	
3	TH-11	703+00N	46+25E
	TH-14	699+00N	44+25E

DRILLING

Priority	Anomaly	DDH target (not the collar location)		
		Line	Station	Depth (m)
1	TH-01*	712+00N	38+25E	40
	TH-02*	713+00N	40+75E	30
	TH-08*	709+00N	43+25E	30
2	TH-04*	714+00N	43+25E	25
	TH-07*	708+00N	42+75E	25
	TH-12*	698+00N	42+25E	30

*Pending prospecting results.

IP SURVEY EXTENSION (Pole-dipole: a = 50 m, n = 1 to 6)

Priority	Anomaly	Survey Direction
1	TH-09*	South
	TH-13*	In-fill lines 700+00N & 701+00N
3	TH-14*	North & South
	TH-17	Winter survey to the east, north & south

*Pending prospecting results.



The interpretation of the geophysical data embodied in this report is essentially a geophysical appraisal of the Thundercloud Project. As such, it incorporates only as much geoscientific information as the author has on hand at the time. Geologists thoroughly familiar with the area are in a better position to evaluate the geological significance of the various geophysical signatures. Moreover, as time passes and information provided by follow-up programs are compiled, exploration targets recognized in this study might be down-graded or up-graded.

Respectfully submitted,
Abitibi Geophysics Inc.

Helene Rivest, Geo.
Geophysicist

APPENDIX

DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT



Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
TH-01	711+00N	38+75E	3	-	Strongly polarizable anomalous trend. Shows a local increase of associated time constant values, indicative of the presence of clay altered minerals. Source estimated subcropping. N-S trending. May extend to the south as TH-09 . Should be investigated by initial prospecting on lines 712+00N, 713+00N, 714+00N & 715+00N followed by possible drilling on line 712+00N.	1
	712+00N	38+25E	4	-		
	713+00N	38+75E	4	-		
	714+00N	38+25E	4	-		
	715+00N	38+75E	4	-		
	716+00N	38+75E	3	-		
	717+00N	38+75E	2	-		
TH-02	711+00N	40+75E	3	-	Strongly polarizable anomalous trend. Shows a local increase of associated time constant values, indicative of the presence of clay altered minerals. Subcropping on line 713+00N. N-S trending. Should be investigated by initial prospecting on line 713+00N followed by possible drilling on the same line.	1
	712+00N	41+25E	3	-		
	713+00N	40+75E	4	-		
TH-03	712+00N	42+25E	3	-	Strongly polarizable anomalous trend. Closely related to TH-01 & TH-02 . Likely originates from the same type of source. Subcropping on line 713+00N. N-S trending. Should be investigated by prospecting on line 713+00N.	1
	713+00N	41+75E	4	-		
	714+00N	41+75E	3	-		
TH-04	711+00N	44+75E	3	-	Strongly polarizable anomalous trend. Subcropping on line 714+00N. Generally N-S trending. Should be investigated by initial prospecting on line 714+00N followed by possible drilling on the same line.	2
	712+00N	44+25E	3	-		
	713+00N	44+25E	4	-		
	714+00N	43+25E	4	-		
	715+00N	42+75E	3	↑↑		
	716+00N	42+75E	3	-		
	717+00N	41+75E	3	-		
TH-05	709+00N	West End	3	-	Strongly polarizable anomalous trend. Located at end of line. Incomplete signatures. Could be interpreted as the southern extension of TH-01 . No further work recommended at the present time.	4
	710+00N	39+25E	3	-		
TH-06	706+00N	40+25E	3	-	Strongly polarizable anomalous trend. Best-response on line 706+00N. Located under a thin layer of overburden. N-S trending. No follow-up work recommended at the present time.	4
	707+00N	40+25E	3	-		
	708+00N	39+75E	3	-		

APPENDIX



DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
TH-07	706+00N	43+25E	3	-	Strongly polarizable anomalous trend. Source estimated subcropping. N-S trending. Should be investigated by initial prospecting on lines 706+00N & 708+00N followed by possible drilling on line 708+00N.	2
	707+00N	43+25E	3	-		
	708+00N	42+75E	3	-		
	709+00N	42+25E	3	-		
	710+00N	41+75E	3	-		
TH-08	702+00N	43+25E	3	-	Moderately to strongly polarizable anomalous trend. Shows a local increase of associated time constant values, indicative of the presence of clay altered minerals. Subcropping on line 709+00N. Best-defined responses on lines 709+00N & 710+00N. Generally N-S trending. Should be investigated by initial prospecting on lines 709+00N & 710+00N, followed by possible drilling on line 709+00N.	1
	703+00N	44+25E	2	-		
	704+00N	44+75E	2	-		
	705+00N	45+25E	2	-		
	706+00N	45+25E	3	-		
	707+00N	44+75E	3	-		
	708+00N	44+25E	3	-		
	709+00N	43+25E	4	-		
TH-09	702+00N	39+50E	4	-	Strongly polarizable anomalous trend. Corresponds to an increase of time constant values, indicative of the presence of clay altered minerals. Depth to top of source estimated at 30 m or less. End of line anomaly, incomplete signatures. N-S trending. May extend to the north as TH-01. Should be investigated by prospecting on lines 702+00N, 703+00N & 705+00N. Pending results, additional survey coverage could be carried out to the south.	1
	703+00N	39+25E	4	-		
	704+00N	West End	4	-		
	705+00N	39+25E	4	-		
	706+00N	West End	3	-		
TH-10	703+00N	41+25E	3	-	Strongly polarizable anomalous trend. Could be interpreted as the southern extension of TH-06. N-S trending. Closely related to TH-09. Wait for results on TH-09 prior drilling on TH-10. Could be investigated by prospecting on line 705+00N.	2
	704+00N	41+00E	3	-		
	705+00N	41+25E	3	-		
TH-11	702+00N	46+25E	3	-	Moderately to strongly polarizable anomalous trend. Subcropping. N-S trending. Could be investigated by prospecting on line 703+00N.	3
	703+00N	46+25E	2	-		
	704+00N	46+25E	2	-		
TH-12	698+00N	42+25E	4	-	Strongly polarizable anomalous trend. Subcropping. N-S trending. Should be investigated by initial prospecting on line 698+00N followed by possible drilling on the same line.	2
	699+00N	42+25E	3	-		

APPENDIX



DESCRIPTION OF IP / RESISTIVITY ANOMALIES INTERPRETED ON THE THUNDERCLOUD PROJECT

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
TH-13	699+00N	40+75E	4	-	Strongly polarizable anomaly. Single-line anomaly that could be interpreted as the southern extension of TH-09. Outcropping to subcropping. Prospecting and additional survey coverage (in-fill survey lines 700+00N & 701+00N) is recommended over TH-13.	1
TH-14	699+00N	44+25E	3	-	Strongly polarizable anomaly. Single-line anomaly that could extend to the north or south. End-of-line signature that remains incomplete. Outcropping to subcropping. Prospecting and additional survey coverage is recommended to the north and south.	3
TH-15	702+00N	42+25E	3	-	Strongly polarizable anomaly. Single-line anomaly that could extend to the north or south. Prospecting and additional survey coverage is recommended to the south.	2
TH-16	715+00N	44+00E	3	-	Strongly polarizable anomaly that could be associated with a small conductive feature. Identified on one line only, TH-15 could however be part of a SW-NE chargeable trend encompassing TH-01, TH-02, TH-03 & TH-04. Should be investigated by prospecting.	2
TH-17	713+00N	46+25E	4	↑↑	Strongly polarizable and resistive anomaly. Identified on one line only, but remains open to the east, north and south. Anomaly likely located under water. According to client's interest, additional survey coverage performed during the winter months could be carried out to the east, north and south of this anomaly.	3

LEGEND:

Chargeability Increase

- ? = Marginal
- 1 = Weak
- 2 = Moderate
- 3 = High
- 4 = Very High

Resistivity Increase

- ↑ = Resistive
- ↑↑ = Very Resistive

Decrease

- ↓ = Conductive
- ↓↓ = Very Conductive

APPENDIX IV
Assay Certificates



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North Vancouver BC V7J 2C1

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To: **TECK COMINCO LIMITED**
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

Page: 1
Finalized Date: 22-JUN-2007
Account: HPQ

CERTIFICATE TB07053792

Project: 244500

P.O. No.:

This report is for 231 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 28-MAY-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

RANDY FARMER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Hg-CV41	Trace Hg - cold vapor/AAS	FIMS
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: **TECK COMINCO LIMITED**
ATTN: GRAEME EVANS
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A
Total # Pages: 7 (A - D)
Finalized Date: 22-JUN-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Au Check ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A10024951A		0.82	0.187			0.21	6.33	3.2	80	0.82	0.32	4.30	0.10	13.55	48.2	16
A10024952A		0.65	2.21			0.26	6.13	3.6	80	0.75	0.39	3.97	0.08	11.30	46.5	16
A10024953A		0.83	0.487	0.477		0.29	6.59	4.9	50	0.81	0.62	4.44	0.09	13.10	50.5	19
A10024954A		1.08	0.054			0.22	6.63	4.1	30	0.89	0.48	5.13	0.10	14.80	51.0	20
A10024955A		0.85	0.177			0.22	7.27	3.1	40	0.74	0.45	4.25	0.09	14.10	44.8	22
A10024956A		0.35	0.159			0.07	5.73	2.2	80	0.38	0.17	3.56	0.10	8.68	38.9	13
A10024957A		0.46	0.350			0.18	5.81	2.4	40	0.50	0.37	3.51	0.08	8.74	42.1	17
A10024958A		0.39	0.760	0.490		0.17	7.33	2.6	40	0.70	0.31	4.59	0.10	12.70	47.6	15
A10024959A		0.32	0.078			0.20	7.59	2.8	50	0.77	0.43	5.40	0.09	13.80	46.6	13
A10024960A		1.37	0.371			0.17	6.61	2.7	450	1.05	0.31	4.85	0.08	12.05	44.2	7
A10024961A		0.86	0.064			0.14	7.36	3.7	270	0.66	0.30	5.22	0.09	13.70	49.4	12
A10024962A		1.15	0.034			0.14	7.17	4.8	150	0.93	0.19	6.16	0.11	13.95	45.8	15
A10024963A		1.04	0.009			0.10	7.70	3.3	80	0.95	0.18	6.60	0.10	14.85	42.9	18
A10024964A		1.10	0.021			0.23	6.86	5.3	400	1.06	0.27	6.04	0.18	118.00	46.6	15
A10024965A		1.80	0.023			0.24	6.97	3.3	70	0.72	0.41	5.43	0.12	14.20	52.7	10
A10024966A		0.75	0.177			0.25	6.21	4.0	70	0.55	0.22	4.78	0.12	17.45	49.3	7
A10024967A		0.42	0.014			0.19	6.82	3.9	80	0.71	0.67	4.69	0.11	18.65	42.0	7
A10024968A		0.42	0.063			0.10	6.31	5.6	80	0.68	0.17	4.01	0.09	16.55	41.7	4
A10024969A		0.39	0.016			0.13	6.26	4.4	80	0.49	0.16	5.12	0.09	16.90	35.8	7
A10024970A		0.20	0.011			0.06	6.59	5.4	50	0.49	0.06	5.42	0.09	16.50	37.2	5
A10024971A		1.17	0.029			0.15	7.02	4.0	160	0.69	0.41	6.82	0.13	21.10	50.8	8
A10024972A		1.01	0.012			0.08	7.33	1.0	90	0.56	0.17	4.56	0.10	8.80	43.1	21
A10024973A		0.88	0.014			0.17	7.20	1.5	150	0.49	0.30	6.13	0.12	8.88	54.1	10
A10024974A		1.02	0.057			0.09	6.20	2.1	350	1.00	0.38	6.37	0.11	21.40	42.1	12
A10024975A		0.90	0.273			0.21	5.80	5.1	220	0.76	0.48	4.68	0.08	10.65	36.7	9
A10024976A		0.92	0.117			0.19	6.25	2.4	250	0.91	0.46	4.64	0.11	17.45	42.0	4
A10024977A		1.21	0.018			0.14	6.78	1.1	720	1.28	0.31	5.74	0.09	25.40	30.7	13
A10024978A		0.92	0.006			0.08	7.67	1.9	1060	1.39	0.19	3.79	0.09	57.30	17.7	53
A10024979A		1.09	0.023			0.10	6.90	4.1	30	0.42	0.13	6.32	0.10	12.90	43.3	27
A10024980A		0.52	0.016			0.24	6.77	4.2	70	0.43	0.26	6.93	0.15	33.10	50.4	4
A10024981A		0.41	0.040			0.11	6.81	1.8	50	0.42	0.13	4.42	0.12	11.35	56.2	2
A10024982A		0.58	0.015			0.12	6.52	2.5	30	0.40	0.14	5.45	0.13	11.80	49.8	2
A10024983A		0.24	0.032			0.08	5.43	4.0	30	0.36	0.13	5.36	0.10	12.50	40.1	6
A10014984A		1.24	0.001			0.03	6.69	2.1	820	1.05	0.06	2.73	0.04	36.60	9.7	38
A10024985A		0.42	0.003			0.33	8.00	6.0	50	0.29	0.16	6.38	0.16	7.78	49.4	142
A10024986A		0.67	0.020			0.83	7.98	3.0	30	0.29	0.17	7.38	0.08	7.34	48.3	163
A10024987A		0.89	0.218			6.15	3.74	65.3	240	0.64	1.32	2.25	0.40	3.68	21.3	76
A10024988A		0.71	0.082			1.18	6.44	16.3	240	0.63	0.24	1.41	0.05	9.89	3.4	26
A10024989A		0.63	0.153			0.70	7.17	25.7	420	1.15	0.69	1.57	0.04	11.50	13.9	64
A10024990A		0.79	0.034			0.27	7.31	3.9	350	0.85	0.14	2.73	0.04	10.75	13.9	70

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Page: 2 - B
Total # Pages: 7 (A - D)
Finalized Date: 22-JUN-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
A10024951A		9.96	155.0	12.20	21.40	0.15	2.4	0.01	0.106	0.40	4.8	123.0	2.60	1580	0.56	1.35
A10024952A		23.80	163.0	11.50	20.90	0.15	2.3	0.01	0.098	0.47	4.0	91.8	2.70	1435	1.74	1.32
A10024953A		22.40	207.0	12.55	22.20	0.16	2.3	<0.01	0.107	0.43	4.7	87.7	2.77	1580	2.02	1.38
A10024954A		15.40	149.5	12.00	22.30	0.14	2.4	<0.01	0.110	0.30	5.2	84.9	2.64	1800	0.80	1.43
A10024955A		26.30	198.5	11.85	21.10	0.17	2.4	<0.01	0.102	0.47	5.2	93.6	2.99	1830	1.07	1.65
A10024956A		19.30	51.2	11.25	18.80	0.15	2.1	<0.01	0.092	0.29	3.0	72.7	3.65	1720	0.44	1.34
A10024957A		9.92	185.5	11.25	18.30	0.14	2.2	<0.01	0.083	0.16	3.1	49.1	2.98	1430	1.03	1.64
A10024958A		13.75	150.5	12.45	22.00	0.15	2.3	<0.01	0.111	0.21	4.6	64.5	3.01	1770	0.65	1.92
A10024959A		6.45	159.0	12.45	23.70	0.17	2.7	<0.01	0.114	0.19	4.8	49.5	2.51	1900	0.63	2.04
A10024960A		19.35	85.0	12.95	23.50	0.17	2.4	<0.01	0.109	0.47	4.5	83.2	3.25	1630	0.63	0.99
A10024961A		12.40	83.0	14.25	22.80	0.18	2.2	<0.01	0.107	0.38	6.0	78.2	3.25	2050	0.49	1.32
A10024962A		5.05	115.5	12.30	23.30	0.16	2.4	<0.01	0.118	0.28	5.0	54.3	2.42	1970	0.59	1.60
A10024963A		3.92	49.4	12.05	22.70	0.16	2.5	<0.01	0.128	0.23	5.3	47.7	2.69	1960	0.50	1.65
A10024964A		4.12	124.0	13.05	24.40	0.19	2.1	<0.01	0.132	0.46	77.0	33.7	2.30	2110	0.98	2.25
A10024965A		2.13	133.0	13.50	22.40	0.17	2.2	<0.01	0.131	0.22	5.3	34.4	2.26	2020	1.76	1.87
A10024966A		3.77	197.0	13.00	22.80	0.17	1.7	<0.01	0.117	0.20	7.4	45.4	2.40	1990	0.73	1.53
A10024967A		2.36	50.0	12.80	23.00	0.17	2.2	<0.01	0.131	0.19	7.4	31.0	2.09	1920	0.94	2.13
A10024968A		2.21	42.5	13.25	24.50	0.18	2.4	<0.01	0.137	0.14	5.5	29.7	1.91	2080	0.41	2.07
A10024969A		1.29	53.5	12.85	23.60	0.17	3.0	<0.01	0.117	0.18	5.8	28.9	1.95	2050	0.44	1.71
A10024970A		2.35	25.4	12.80	35.50	0.16	2.3	<0.01	0.136	0.14	5.6	29.1	1.89	2280	0.33	1.74
A10024971A		2.21	138.0	13.10	21.40	0.15	1.8	<0.01	0.108	0.21	11.1	24.8	3.06	1950	9.85	1.54
A10024972A		1.96	118.0	9.50	18.75	0.13	1.6	<0.01	0.101	0.18	3.1	20.4	2.60	1530	0.35	1.92
A10024973A		3.64	134.0	13.45	20.10	0.17	1.4	<0.01	0.112	0.28	2.9	31.3	3.19	2080	0.41	1.75
A10024974A		8.16	30.5	11.20	20.20	0.15	2.0	<0.01	0.102	0.59	13.4	32.1	2.68	2090	1.29	1.43
A10024975A		14.80	33.5	11.25	19.95	0.14	2.5	<0.01	0.097	0.79	3.6	42.4	2.00	1780	0.81	1.23
A10024976A		8.14	43.0	12.60	21.30	0.18	2.5	<0.01	0.115	0.45	7.7	26.2	1.93	1960	0.59	1.93
A10024977A		14.00	29.6	10.95	29.30	0.15	3.4	<0.01	0.115	1.33	10.8	51.4	1.72	1830	0.48	1.36
A10024978A		15.95	17.8	4.53	23.00	0.12	3.5	<0.01	0.041	1.78	26.4	71.3	1.42	773	0.33	2.72
A10024979A		4.69	52.7	12.15	21.70	0.16	2.1	<0.01	0.109	0.16	4.6	52.6	3.41	2160	0.62	1.80
A10024980A		1.64	232.0	13.80	23.60	0.19	2.2	<0.01	0.165	0.21	16.3	40.6	2.52	2300	3.44	1.65
A10024981A		36.20	85.6	14.25	22.00	0.17	1.5	<0.01	0.118	0.32	3.7	52.9	2.79	2330	1.59	2.39
A10024982A		2.07	137.5	13.15	21.90	0.17	1.7	<0.01	0.112	0.13	4.4	39.6	2.64	2110	0.49	2.04
A10024983A		2.46	66.4	11.10	19.55	0.14	1.3	<0.01	0.096	0.15	5.5	37.9	2.35	1980	0.44	1.33
A10014984A		16.30	8.0	2.13	19.90	0.08	2.9	<0.01	0.022	1.80	16.1	129.0	1.17	379	0.21	2.36
A10024985A		4.76	125.0	9.23	19.40	0.14	1.0	<0.01	0.074	0.19	2.8	127.0	4.07	1610	0.55	1.79
A10024986A		3.73	154.0	9.37	16.80	0.14	0.7	<0.01	0.066	0.31	2.7	98.3	4.17	1530	0.22	1.52
A10024987A		11.65	827.0	4.37	9.42	0.13	0.6	0.02	0.079	1.51	1.6	57.5	1.36	486	5.57	0.39
A10024988A		2.98	15.0	1.02	13.25	0.08	1.7	0.01	0.007	1.08	4.6	18.1	0.32	133	0.68	3.22
A10024989A		11.90	65.0	2.62	18.00	0.09	1.8	<0.01	0.025	1.56	5.3	46.1	1.04	360	6.68	2.55
A10024990A		11.65	37.0	2.89	17.10	0.12	1.8	<0.01	0.027	1.15	4.6	56.0	1.25	451	0.84	2.58

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2
A10024951A		4.7	21.9	540	2.2	21.9	0.002	1.22	0.52	45.9	3	0.5	121.0	0.28	0.53	0.7
A10024952A		4.6	21.6	610	2.3	34.2	0.004	1.48	0.50	42.9	3	0.5	131.5	0.26	0.59	0.5
A10024953A		4.6	22.1	590	2.4	32.4	0.007	1.81	0.60	45.9	3	0.5	117.5	0.27	0.82	0.4
A10024954A		4.8	23.2	580	2.3	20.6	0.004	1.35	0.59	48.5	3	0.5	134.5	0.28	0.67	0.5
A10024955A		4.5	24.3	580	2.6	35.0	0.004	1.53	0.55	48.7	3	0.5	117.0	0.26	0.74	0.4
A10024956A		3.7	20.8	530	2.2	30.3	0.002	0.28	0.41	41.8	2	0.4	125.5	0.22	0.15	0.4
A10024957A		3.8	20.1	530	2.5	14.3	0.005	1.15	0.45	38.7	2	0.4	112.0	0.23	0.49	0.4
A10024958A		4.4	22.8	650	2.3	18.7	0.004	0.99	0.49	50.0	3	0.5	158.0	0.29	0.58	0.4
A10024959A		4.9	23.8	620	2.7	10.7	0.003	1.30	0.67	53.3	3	0.4	214.0	0.29	0.70	0.4
A10024960A		4.3	17.9	590	4.2	34.5	0.004	0.93	0.62	47.4	3	0.7	299.0	0.26	0.49	0.4
A10024961A		4.4	22.9	530	3.6	25.1	0.002	0.81	0.61	51.8	2	0.6	394.0	0.26	0.30	0.4
A10024962A		4.6	23.6	590	2.4	13.0	0.002	0.46	0.62	50.0	3	0.5	354.0	0.28	0.25	0.4
A10024963A		4.9	24.5	600	2.0	7.9	0.002	0.39	0.73	52.6	2	0.9	299.0	0.29	0.17	0.4
A10024964A		4.8	13.8	610	9.6	14.1	0.002	1.04	0.93	48.6	3	0.8	951.0	0.28	0.15	1.0
A10024965A		4.7	11.5	600	5.0	6.1	0.006	1.18	0.69	49.0	3	0.8	480.0	0.28	0.51	0.4
A10024966A		4.4	12.1	550	3.0	8.7	0.003	1.08	0.58	45.9	3	0.7	294.0	0.26	0.46	0.5
A10024967A		5.8	3.0	740	4.6	6.8	0.005	1.01	0.53	46.6	3	0.6	544.0	0.34	0.47	0.5
A10024968A		6.5	2.1	680	2.8	8.3	0.004	0.31	0.52	44.3	3	0.6	478.0	0.37	0.25	0.5
A10024969A		6.6	1.8	930	2.2	7.7	0.003	0.49	0.61	40.3	3	0.4	346.0	0.40	0.36	0.6
A10024970A		6.4	1.2	720	1.8	5.0	0.003	0.15	0.57	41.3	3	0.5	452.0	0.36	0.09	0.5
A10024971A		3.9	17.4	470	8.8	8.3	0.005	0.83	0.69	51.4	3	0.5	784.0	0.23	0.38	0.4
A10024972A		3.0	28.8	410	4.0	10.0	0.002	0.43	0.31	43.7	2	0.5	381.0	0.18	0.23	0.4
A10024973A		3.3	13.4	420	4.1	12.8	0.002	0.81	0.59	57.5	3	0.5	561.0	0.19	0.34	0.3
A10024974A		4.0	7.4	480	5.1	28.6	0.002	0.43	0.57	48.3	2	0.7	600.0	0.24	0.17	0.4
A10024975A		4.4	4.8	500	5.2	39.9	0.003	1.12	0.47	43.8	3	0.5	379.0	0.26	0.55	0.4
A10024976A		5.1	4.1	700	6.7	26.5	0.003	0.75	0.45	46.1	3	0.4	497.0	0.30	0.37	0.5
A10024977A		5.5	8.5	650	6.8	56.3	0.003	0.42	0.82	39.2	3	0.5	490.0	0.33	0.31	1.5
A10024978A		4.5	36.7	670	13.5	61.1	<0.002	0.13	0.42	14.1	1	0.6	634.0	0.30	0.07	5.1
A10024979A		4.1	22.5	490	1.8	8.0	0.002	0.33	0.91	46.0	2	0.9	143.0	0.24	0.15	0.4
A10024980A		5.8	7.7	960	2.3	7.6	0.008	0.65	0.80	48.8	3	0.9	196.5	0.30	0.28	0.5
A10024981A		4.1	10.5	550	1.8	39.1	0.007	0.48	0.41	49.1	3	0.5	186.0	0.24	0.23	0.3
A10024982A		4.2	11.5	510	1.7	3.9	0.004	0.47	0.63	49.0	3	0.7	174.5	0.25	0.23	0.4
A10024983A		3.6	11.3	450	1.3	7.0	0.003	0.33	0.61	41.4	2	1.5	92.7	0.21	0.22	0.4
A10014984A		2.6	28.8	520	11.2	68.2	<0.002	0.02	1.17	5.9	1	0.6	513.0	0.19	<0.05	4.1
A10024985A		2.5	99.3	290	3.4	8.5	0.002	0.26	3.02	48.8	2	0.6	196.0	0.15	0.19	0.2
A10024986A		2.0	98.9	280	3.4	13.4	0.002	0.10	1.70	42.7	1	0.5	182.5	0.15	0.12	0.3
A10024987A		0.6	39.1	120	6.4	73.6	<0.002	3.27	2.18	15.9	5	0.3	116.5	0.05	3.02	<0.2
A10024988A		0.6	7.1	170	8.6	37.8	<0.002	0.70	1.33	2.7	1	0.3	266.0	0.08	0.81	1.3
A10024989A		1.2	31.5	220	9.7	69.8	0.002	1.52	1.01	11.9	1	0.4	318.0	0.11	0.44	1.5
A10024990A		1.7	27.7	220	11.8	46.7	0.002	0.62	0.43	13.4	<1	0.4	322.0	0.16	0.14	1.2

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A10024951A		0.899	0.34	0.1	386	4.9	29.4	87	83.4		
A10024952A		0.870	0.66	0.1	373	3.8	26.5	81	76.9		
A10024953A		0.923	0.59	0.1	404	5.4	31.5	84	78.8		
A10024954A		0.906	0.38	0.1	388	4.3	35.8	90	83.2		
A10024955A		0.965	0.59	0.1	403	4.6	31.4	91	88.1		
A10024956A		0.897	0.42	0.2	382	2.6	23.9	88	74.8		
A10024957A		0.804	0.21	0.1	349	4.0	20.0	83	77.3		
A10024958A		1.050	0.31	0.1	452	6.8	28.8	100	83.2		
A10024959A		1.120	0.18	0.1	465	3.9	34.2	113	92.8		
A10024960A		1.075	0.50	0.2	506	7.6	27.7	113	86.4		
A10024961A		1.200	0.33	0.1	557	4.1	30.1	130	80.8		
A10024962A		1.010	0.18	0.1	445	5.7	35.3	110	85.3		
A10024963A		1.085	0.12	0.1	478	12.3	38.8	117	87.1		
A10024964A		1.205	0.15	0.6	477	4.5	37.4	155	74.5		
A10024965A		1.335	0.10	0.4	522	4.6	35.3	141	76.6		
A10024966A		1.235	0.15	0.1	516	5.2	32.6	138	61.3		
A10024967A		1.275	0.09	0.1	343	2.1	42.9	122	78.6		
A10024968A		1.240	0.10	0.1	286	1.1	46.9	115	83.0		
A10024969A		1.060	0.10	0.2	222	1.4	46.9	119	111.5		
A10024970A		1.215	0.07	0.1	219	1.3	45.5	117	80.4		
A10024971A		1.270	0.17	0.4	767	4.5	29.7	117	60.7		
A10024972A		0.870	0.07	0.1	463	0.7	23.5	100	58.6		
A10024973A		1.255	0.17	0.1	711	1.9	26.9	121	45.3		
A10024974A		1.185	0.35	0.4	445	9.4	30.8	111	69.3		
A10024975A		1.130	0.48	0.5	333	10.5	29.9	106	87.6		
A10024976A		1.175	0.32	0.6	385	2.9	40.2	131	88.6		
A10024977A		1.110	0.52	1.3	257	6.0	36.2	106	122.5		
A10024978A		0.406	0.60	2.3	120	1.5	12.0	71	134.0		
A10024979A		0.952	0.10	0.1	418	1.9	31.3	129	75.2		
A10024980A		1.525	0.09	0.2	593	4.1	43.2	139	76.5		
A10024981A		1.555	0.56	0.1	636	1.0	30.8	144	48.0		
A10024982A		1.270	0.06	0.1	532	1.4	31.9	145	59.2		
A10024983A		1.010	0.08	0.1	444	2.0	27.3	119	49.8		
A10014984A		0.165	0.72	1.3	48	1.0	5.1	57	113.5		
A10024985A		0.518	0.13	0.1	266	1.1	21.7	108	34.0		
A10024986A		0.530	0.13	0.1	270	0.9	18.5	99	20.6		
A10024987A		0.146	0.68	0.1	115	10.5	5.8	92	17.7		
A10024988A		0.047	0.23	0.7	24	3.7	2.2	16	51.9		
A10024989A		0.143	0.53	0.7	83	8.9	4.8	49	57.9		
A10024990A		0.216	0.39	0.6	94	4.2	6.6	46	58.3		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Au Check ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A1002C991A		0.58	0.054			1.54	6.42	6.3	340	1.34	0.16	6.56	0.23	14.50	34.4	68
A10024992A		0.29	1.055			2.28	7.33	20.7	280	1.20	0.08	3.34	0.14	12.75	31.9	118
A10024993A		0.41	2.10			1.14	7.01	5.4	230	0.93	0.10	2.60	0.11	9.64	28.5	105
A10024994A		0.82	2.84			1.81	7.98	11.6	400	1.31	0.07	2.10	0.09	12.05	32.5	135
A10024995A		0.76	4.78			4.36	7.14	98.9	290	1.47	0.12	3.07	0.21	11.85	43.4	109
A10024996A		0.92	0.048			0.31	7.32	1.2	80	1.05	0.02	6.71	0.17	8.17	46.2	170
A10024997A		0.86	0.039			0.54	7.34	1.4	50	0.67	0.06	6.12	0.19	7.95	46.6	173
A10024998A		0.50	0.089			1.29	7.01	40.8	170	1.31	0.85	5.47	0.27	7.34	39.9	216
A10024999A		0.34	0.018			0.20	7.15	21.1	270	0.89	0.25	0.90	0.03	8.55	3.6	15
A10025000A		0.87	0.131			2.93	6.58	28.5	160	1.07	0.70	3.99	0.11	4.78	50.9	118
A10025001A		0.39	0.003			0.04	6.72	<0.2	110	0.46	0.02	5.85	0.07	16.80	43.8	27
A10025002A		0.76	0.088			0.77	7.46	10.5	120	1.14	0.06	5.65	0.13	6.59	48.1	155
A10025003A		1.24	0.016			0.14	8.08	16.8	280	1.34	0.42	1.12	0.08	13.45	4.2	14
A10025004A		0.78	0.136			1.31	7.08	107.5	170	1.00	3.55	7.29	3.94	7.47	44.6	94
A10025005A		0.96	0.087			1.79	7.16	18.5	80	0.96	1.71	5.90	0.18	6.83	49.1	204
A10025006A		0.96	0.006			0.57	7.18	6.4	40	0.35	0.65	6.79	0.10	7.29	44.6	180
A10025007A		0.94	0.032			1.30	7.47	32.9	90	1.02	0.73	6.29	0.13	6.98	47.1	215
A10025008A		1.07	0.006			0.37	8.53	4.2	30	0.64	0.07	6.93	0.11	6.86	47.0	252
A10025009A		0.88	0.013			0.46	8.18	5.2	190	0.83	0.59	6.94	0.19	8.18	49.5	236
A10025010A		0.64	0.019			0.60	8.04	3.0	240	0.87	0.95	7.69	0.14	7.82	48.6	230
A10025011A		0.66	0.413			5.60	7.39	108.0	210	1.64	2.55	4.07	0.08	5.42	47.5	222
A10025012A		1.01	0.012			0.71	7.56	12.9	70	0.45	0.65	6.93	0.10	8.87	45.3	167
A10025013A		1.10	0.111			0.30	7.21	6.2	130	1.24	0.60	6.39	0.17	8.04	37.7	352
A10025014A		1.28	0.065			0.17	7.68	1.5	120	0.49	0.06	5.35	0.36	10.35	45.7	149
A10025015A		1.08	0.068			1.05	6.51	4.3	50	0.97	0.03	3.64	0.12	14.15	51.8	9
A10025016A		1.32	0.234			0.55	6.71	3.7	100	1.23	0.23	4.57	0.09	13.80	47.9	30
A10025017A		0.99	0.055			0.62	6.99	12.9	70	0.90	0.07	6.10	0.10	9.35	45.3	186
A10J25018A		1.03	0.212			0.92	6.86	4.6	110	1.88	0.30	5.73	0.07	8.82	46.0	120
A10025019A		0.97	0.020			0.52	7.31	11.4	90	0.86	0.05	5.17	0.10	9.30	47.3	149
A10025020A		0.69	0.003			0.10	6.84	0.7	470	1.02	0.12	1.20	0.05	15.75	2.8	14
A10025021A		1.03	0.783			0.54	7.73	2.1	130	2.04	0.14	3.92	0.05	10.60	51.0	161
A10025022A		1.13	2.20			0.78	5.68	5.7	130	0.80	0.23	2.03	0.03	5.52	36.2	125
A10025023A		1.33	0.022			0.14	8.34	1.7	40	0.48	0.08	7.63	0.09	7.80	44.2	299
A10025024A		0.70	0.008			0.06	7.37	0.4	800	1.26	0.07	1.46	0.03	12.30	2.6	21
A10025025A		0.74	0.022			0.42	7.75	1.2	120	0.44	0.12	7.17	0.23	4.90	50.6	260
A10025026A		0.40	0.005			0.21	7.42	3.2	80	0.51	0.02	6.04	0.20	6.01	43.9	200
A10025027A		0.81	0.039			1.00	6.99	17.4	430	1.28	0.21	2.81	0.09	8.93	31.2	79
A10025028A		0.74	0.069			0.19	7.89	2.3	330	1.26	0.04	5.58	0.08	16.80	34.6	104
A10025029A		0.62	0.018			0.11	7.98	9.3	20	0.43	<0.01	6.78	0.14	7.99	45.4	156
A10025030A		0.95	0.082			0.19	7.39	1.9	150	1.43	0.16	8.66	0.13	5.61	39.6	203

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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212 Brooksbank Avenue
North Vancouver BC V7J 2C1
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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
A1002C991A		5.96	256.0	8.91	19.20	0.12	2.4	<0.01	0.095	0.65	5.9	62.2	2.81	1385	0.65	1.77
A10024992A		15.45	102.0	6.96	19.80	0.10	2.2	0.01	0.061	1.23	5.3	79.6	1.85	751	1.85	1.79
A10024993A		19.40	86.1	5.71	20.00	0.09	1.9	0.01	0.052	1.31	4.0	104.5	1.97	582	2.67	2.11
A10024994A		13.10	88.5	6.68	22.10	0.10	2.2	0.01	0.069	1.31	5.2	112.0	2.21	605	0.88	1.88
A10024995A		13.90	124.5	7.59	20.90	0.12	2.3	0.01	0.065	1.24	5.0	84.3	1.90	656	2.88	1.35
A10024996A		16.10	121.5	8.81	16.35	0.11	1.4	<0.01	0.067	0.55	3.0	127.5	3.81	1715	0.33	1.06
A10024997A		9.04	137.5	8.86	17.40	0.12	1.2	<0.01	0.070	0.54	2.8	134.0	4.06	1405	0.45	1.46
A10024998A		25.90	151.0	6.70	18.75	0.10	1.1	<0.01	0.075	1.21	2.8	126.0	3.29	1225	0.78	1.01
A10024999A		15.25	8.2	1.50	17.55	0.05	2.1	<0.01	0.015	1.64	3.9	95.8	0.73	156	0.57	2.54
A10025000A		19.30	156.0	9.52	17.05	0.12	1.1	<0.01	0.052	0.98	1.7	132.0	3.51	1030	16.00	0.87
A10025001A		0.21	27.8	7.92	18.20	0.10	2.1	<0.01	0.068	0.31	7.4	11.1	2.69	1580	0.28	1.98
A10025002A		25.00	138.5	8.98	18.60	0.11	1.2	<0.01	0.077	1.06	2.3	170.0	4.11	1490	0.52	1.25
A10025003A		19.55	10.5	1.56	21.10	0.07	2.2	<0.01	0.012	1.93	6.8	95.6	0.87	239	2.30	2.24
A10025004A		36.40	79.9	8.22	20.20	0.12	1.3	0.01	0.096	2.02	3.0	202.0	3.67	1590	50.20	0.73
A10025005A		6.28	283.0	7.37	14.95	0.11	0.7	<0.01	0.064	0.67	2.5	40.2	3.48	1255	56.20	2.47
A10025006A		3.62	107.0	7.60	15.80	0.10	1.0	<0.01	0.054	0.49	2.7	30.6	4.32	1265	10.85	1.71
A10025007A		7.74	221.0	7.49	17.55	0.10	0.7	<0.01	0.059	1.14	2.6	82.2	4.24	1275	10.30	1.12
A10025008A		1.20	130.5	7.59	18.30	0.10	1.0	<0.01	0.071	0.09	2.5	54.6	3.06	1340	0.65	2.32
A10025009A		23.80	166.5	8.39	19.45	0.12	0.9	<0.01	0.067	0.47	3.1	52.5	4.08	1485	0.88	1.88
A10025010A		11.35	124.5	8.64	18.55	0.11	1.0	<0.01	0.065	0.55	2.9	57.3	4.01	1515	14.55	1.56
A10025011A		25.20	126.0	8.06	19.80	0.12	1.2	<0.01	0.051	2.02	1.9	123.5	2.59	699	19.50	1.78
A10025012A		2.94	140.5	8.20	17.40	0.10	1.0	<0.01	0.061	0.50	3.4	27.2	3.61	1490	5.97	2.15
A10025013A		9.87	91.6	8.11	17.15	0.14	1.2	<0.01	0.076	0.67	3.0	51.3	4.11	1460	0.42	0.97
A10025014A		13.10	116.0	9.62	19.95	0.12	1.5	<0.01	0.086	0.50	3.6	91.5	3.73	1555	0.46	1.68
A10025015A		10.15	85.4	13.00	24.50	0.15	1.3	<0.01	0.102	0.40	5.3	163.5	3.38	1575	0.45	0.84
A10025016A		34.00	92.0	10.85	22.10	0.13	2.0	<0.01	0.076	1.05	5.1	78.6	3.20	1460	1.57	1.01
A10025017A		18.15	57.4	9.69	20.40	0.14	1.1	<0.01	0.110	0.70	3.3	104.0	3.49	1545	0.36	1.31
A10J25018A		15.90	308.0	8.67	17.30	0.12	1.5	<0.01	0.106	0.99	3.5	82.5	2.92	966	0.94	0.62
A10025019A		11.25	184.0	9.62	18.15	0.12	1.6	<0.01	0.105	0.46	3.3	100.5	3.85	1410	0.37	1.18
A10025020A		6.70	10.9	1.04	17.85	0.05	2.0	0.01	0.011	1.28	8.0	20.1	0.17	207	0.66	3.07
A10025021A		31.30	190.5	10.00	21.70	0.13	1.4	<0.01	0.081	1.61	3.9	139.5	2.50	876	0.66	1.22
A10025022A		39.90	206.0	8.45	15.70	0.12	0.9	<0.01	0.054	1.19	2.1	125.5	2.72	837	1.19	0.79
A10025023A		5.31	85.0	8.69	17.70	0.11	1.0	<0.1	0.063	0.19	3.0	58.7	3.81	1395	0.32	1.49
A10025024A		9.29	5.9	1.12	21.90	0.05	2.2	<0.1	0.012	1.88	6.0	37.1	0.32	177	0.33	2.92
A10025025A		13.10	172.5	8.14	16.45	0.10	1.2	<0.1	0.069	0.44	1.8	101.0	3.94	1315	0.48	1.73
A10025026A		3.69	161.5	8.37	17.65	0.11	1.5	<0.01	0.066	0.35	2.2	210.0	3.61	1425	0.35	2.09
A10025027A		4.15	120.0	6.86	16.85	0.10	1.6	<0.01	0.055	0.53	3.3	88.9	1.88	904	0.75	2.31
A10025028A		23.90	82.2	7.04	18.50	0.13	2.0	<0.01	0.053	1.80	7.0	127.5	2.96	1075	0.34	0.95
A10025029A		2.38	139.5	9.64	17.80	0.14	1.1	<0.01	0.075	0.12	2.8	60.0	4.21	1625	0.36	1.28
A10025030A		16.90	88.1	6.52	15.95	0.11	0.8	<0.01	0.050	0.77	2.1	61.4	4.00	1320	0.50	1.13

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2
A1002C991A		4.4	33.2	510	10.0	31.8	<0.002	4.64	1.71	43.6	4	0.6	486.0	0.27	0.96	0.5
A10024992A		3.1	53.0	400	11.1	64.5	0.002	2.73	0.98	33.1	4	0.6	312.0	0.20	2.25	0.8
A10024993A		2.3	49.8	310	8.5	60.2	0.002	1.62	0.53	27.7	3	0.5	189.0	0.16	1.81	0.7
A10024994A		3.4	59.5	420	9.4	54.2	<0.002	1.40	0.46	37.0	4	0.6	217.0	0.21	1.90	0.6
A10024995A		2.9	48.8	320	15.3	69.1	<0.002	3.67	1.75	30.7	6	0.6	275.0	0.19	6.62	0.8
A10024996A		2.6	93.5	310	1.8	36.8	0.002	0.17	0.77	43.2	3	0.5	226.0	0.16	0.10	0.2
A10024997A		2.7	98.2	300	3.8	23.9	0.002	0.56	0.75	42.5	2	0.6	212.0	0.17	0.35	0.2
A10024998A		2.1	87.2	310	28.2	51.9	0.002	3.04	1.56	48.5	3	0.7	211.0	0.15	1.03	0.2
A10024999A		1.2	7.6	180	10.5	92.1	<0.002	0.37	0.57	3.7	2	0.5	156.0	0.11	0.25	1.6
A10025000A		1.4	86.5	230	11.6	46.0	0.003	4.68	1.70	36.7	5	0.4	144.0	0.10	1.56	0.2
A10025001A		3.5	36.9	400	2.5	11.5	<0.002	0.01	0.11	35.1	2	0.7	129.0	0.23	<0.05	1.2
A10025002A		2.6	97.9	300	8.6	34.3	0.002	1.77	1.21	46.4	3	0.6	161.5	0.15	0.42	0.2
A10025003A		1.0	7.6	210	10.5	121.5	<0.002	0.76	0.60	4.1	2	0.8	182.0	0.09	0.28	1.7
A10025004A		1.4	69.2	250	35.9	138.0	0.003	6.11	1.36	36.5	6	0.5	169.0	0.10	1.81	0.2
A10025005A		2.1	107.5	240	8.8	28.3	0.005	3.04	3.68	39.5	4	0.6	315.0	0.13	1.10	0.2
A10025006A		2.1	99.8	250	2.3	26.8	<0.002	0.58	1.32	43.5	3	0.5	166.5	0.13	0.23	0.2
A10025007A		2.2	118.5	250	6.3	41.9	0.002	1.63	1.18	44.7	3	0.5	173.0	0.14	0.52	0.2
A10025008A		2.7	120.5	280	3.1	1.0	<0.002	0.31	1.04	46.5	2	0.6	129.0	0.16	0.15	0.2
A10025009A		2.4	114.5	280	19.1	29.0	<0.002	1.47	0.86	46.1	3	0.5	113.0	0.15	0.25	0.2
A10025010A		2.4	117.5	270	4.5	28.3	0.002	0.95	0.89	43.6	3	0.6	158.5	0.15	0.38	0.2
A10025011A		1.6	103.5	290	13.0	112.5	0.002	6.60	1.08	41.8	5	0.7	215.0	0.10	5.46	0.2
A10025012A		2.7	106.5	280	3.8	35.7	<0.002	0.97	3.02	39.3	3	0.7	350.0	0.16	0.26	0.2
A10025013A		2.2	73.7	260	4.0	31.0	<0.002	0.33	1.26	46.2	3	0.5	298.0	0.14	0.10	0.2
A10025014A		3.7	83.1	440	3.2	13.5	0.002	0.42	0.77	48.9	3	0.8	275.0	0.23	0.08	0.3
A10025015A		3.8	24.2	450	2.2	21.6	0.010	1.26	0.89	62.1	4	0.7	119.5	0.23	0.47	0.3
A10025016A		4.3	28.6	530	3.0	61.7	0.002	1.03	0.82	46.2	3	0.9	181.5	0.27	0.12	0.4
A10025017A		3.5	63.1	370	6.1	21.9	0.003	0.40	3.02	55.9	3	0.7	153.0	0.21	<0.05	0.2
A10J25018A		3.1	49.5	370	2.1	69.8	0.002	2.14	0.86	41.2	4	1.5	143.0	0.19	0.29	0.3
A10025019A		3.1	73.3	360	1.6	21.6	0.002	0.85	1.64	47.3	3	0.6	154.5	0.19	0.07	0.3
A10025020A		2.6	4.3	230	16.0	45.2	<0.002	0.03	0.43	2.6	2	0.5	555.0	0.20	<0.05	1.9
A10025021A		3.6	66.6	420	2.3	104.0	0.002	2.44	0.35	52.2	4	1.0	135.0	0.23	0.33	0.3
A10025022A		2.2	39.3	270	1.8	83.8	0.004	2.11	0.32	31.8	3	0.5	57.2	0.13	0.27	0.2
A10025023A		2.2	88.0	270	0.9	8.8	<0.002	0.10	0.74	45.4	2	0.4	147.5	0.13	<0.05	0.2
A10025024A		2.2	5.2	180	13.1	65.9	<0.002	0.02	0.35	2.7	2	0.5	653.0	0.17	<0.05	1.7
A10025025A		1.9	107.0	220	5.8	22.0	<0.002	0.37	0.71	47.3	2	0.4	318.0	0.12	0.20	0.2
A10025026A		2.9	104.5	330	4.0	10.0	<0.002	0.18	0.86	50.8	3	0.6	165.0	0.18	<0.05	0.2
A10025027A		2.5	39.1	300	7.1	16.0	0.002	1.84	0.72	30.5	3	0.5	259.0	0.18	0.73	0.7
A10025028A		2.6	52.7	420	5.4	71.6	<0.002	0.27	0.58	31.1	2	0.6	325.0	0.19	0.10	0.9
A10025029A		2.7	90.3	300	1.2	4.7	0.002	0.10	1.21	47.6	2	0.6	187.5	0.20	<0.05	0.3
A10025030A		1.7	99.6	180	3.8	37.8	<0.002	0.26	0.43	38.8	2	0.4	415.0	0.15	0.07	0.2

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A1002C991A		0.606	0.22	0.2	199	22.5	31.1	98	77.8		
A10024992A		0.488	0.59	0.3	266	10.7	15.8	89	76.3		
A10024993A		0.376	0.67	0.3	223	12.6	8.5	85	64.3		
A10024994A		0.615	0.57	0.2	320	14.8	11.4	100	75.2		
A10024995A		0.464	0.63	0.3	291	10.1	15.4	84	76.7		
A10024996A		0.532	0.37	0.1	260	3.8	20.1	95	46.6		
A10024997A		0.514	0.41	0.1	254	1.8	19.6	95	39.6		
A10024998A		0.422	0.95	0.1	238	11.2	17.5	130	36.9		
A10024999A		0.071	0.72	0.8	48	2.1	2.9	20	71.0		
A10025000A		0.334	0.59	0.1	200	16.5	14.4	77	38.4		
A10025001A		0.533	0.04	0.3	239	0.3	19.7	97	67.7		
A10025002A		0.535	0.75	0.1	280	13.5	17.2	117	40.3		
A10025003A		0.063	1.06	0.9	43	7.8	3.4	48	75.7		
A10025004A		0.338	1.38	0.1	237	9.3	15.9	463	42.7		
A10025005A		0.424	0.39	0.1	231	16.1	16.0	96	19.0		
A10025006A		0.431	0.21	0.1	230	2.2	17.3	54	31.3		
A10025007A		0.452	0.69	0.1	243	11.7	17.3	72	23.1		
A10025008A		0.517	0.05	0.1	273	4.4	16.9	88	30.6		
A10025009A		0.491	0.37	0.1	262	5.3	19.2	109	22.4		
A10025010A		0.468	0.39	0.1	243	11.5	18.5	109	29.8		
A10025011A		0.384	1.85	0.1	254	38.6	11.9	77	41.7		
A10025012A		0.468	0.22	0.1	228	3.2	18.5	77	32.3		
A10025013A		0.468	0.30	0.1	250	5.5	19.2	109	35.0		
A10025014A		0.676	0.28	0.1	308	1.2	25.4	303	48.2		
A10025015A		1.490	0.32	0.1	957	11.5	26.7	137	44.2		
A10025016A		0.784	0.78	0.1	323	6.7	30.1	96	71.1		
A10025017A		0.692	0.60	0.1	325	5.5	22.7	101	38.2		
A10J25018A		0.570	0.64	0.1	277	7.6	17.3	59	54.3		
A10025019A		0.640	0.33	0.1	291	1.8	22.7	77	51.7		
A10025020A		0.090	0.35	1.1	14	1.8	2.6	40	67.6		
A10025021A		0.710	1.07	0.1	389	15.0	22.2	67	51.0		
A10025022A		0.446	0.98	0.1	283	32.9	13.9	59	33.8		
A10025023A		0.460	0.09	0.1	249	1.4	18.7	91	31.7		
A10025024A		0.089	0.48	0.9	19	1.1	2.3	37	73.8		
A10025025A		0.414	0.26	<0.1	238	3.1	16.8	111	38.5		
A10025026A		0.573	0.19	0.1	266	3.8	19.2	111	47.5		
A10025027A		0.435	0.18	0.2	211	14.6	15.7	71	49.3		
A10025028A		0.445	0.68	0.3	207	9.0	15.6	72	65.8		
A10025029A		0.573	0.05	0.1	291	1.2	21.9	98	37.2		
A10025030A		0.374	0.30	0.1	221	3.0	13.4	90	25.8		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	Au-GRA21 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm
Sample Description	0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A10025031A	0.71	0.007			0.29	7.51	1.7	110	0.73	0.03	5.86	0.14	8.00	43.3	152
A10025032A	0.75	0.028			0.13	7.68	2.0	70	0.20	0.02	6.90	0.12	5.46	45.9	242
A10025033A	0.80	0.010			0.15	7.67	6.0	180	0.35	0.02	6.18	0.12	6.96	35.9	130
A10025034A	0.57	0.151			0.63	5.62	9.9	170	0.78	0.54	4.57	0.15	9.12	35.3	83
A10025035A	0.52	0.059			0.07	7.07	9.8	500	1.09	0.05	1.69	0.03	17.60	2.6	11
A10025036A	1.37	0.033			0.54	8.27	2.5	340	0.64	0.37	7.37	0.09	6.01	53.5	223
A10025037A	1.17	0.063			0.99	8.53	5.0	230	1.08	0.38	5.66	0.09	7.01	51.0	228
A10025038A	0.77	0.034			0.45	7.93	1.6	90	0.75	0.02	5.71	0.09	7.50	53.2	150
A10025039A	0.92	0.025			0.25	7.98	5.9	190	0.66	0.08	6.06	0.12	6.73	49.4	159
A10025040A	1.13	0.009			0.09	8.20	2.8	370	0.78	0.06	5.27	0.09	12.70	28.1	85
A10025041A	0.94	0.016			0.34	8.29	4.2	170	0.70	0.26	6.12	0.16	9.18	42.2	124
A10025042A	0.86	0.010			0.26	7.61	0.7	30	0.13	0.23	6.08	0.14	6.45	47.1	135
A10025051A	0.75	0.027			0.08	6.90	8.3	20	0.48	0.02	5.51	0.08	13.10	41.9	11
A10025052A	1.48	0.020			0.08	7.91	2.6	120	0.57	0.21	6.69	0.07	9.47	37.6	110
A10025054A	1.28	0.422			0.25	8.25	3.5	140	1.36	0.06	6.68	0.08	8.58	38.3	166
A10025055A	1.56	0.153			0.48	7.87	6.5	60	0.68	0.02	1.79	0.02	6.35	66.5	210
A10025056A	0.93	0.052			0.13	7.82	2.7	50	0.56	0.02	6.19	0.04	10.35	49.1	159
A10025057A	0.53	0.008			0.59	7.71	10.1	20	0.21	0.17	7.08	0.12	7.17	44.5	142
A10025058O	0.39	0.211			2.06	5.95	39.8	130	1.34	1.54	3.73	<0.02	5.04	20.7	81
A10025059A	0.30	0.181			2.00	5.47	16	70	0.51	0.70	13.95	0.09	8.62	33.7	75
A10025060A	0.41	0.345			4.35	6.52	32.4	80	0.72	1.59	9.47	0.07	6.70	43.3	81
A10025061A	0.43	0.402			3.08	7.85	35.7	210	1.58	1.12	2.85	<0.02	8.18	18.5	61
A10025062A	0.45	0.012			0.63	7.44	11.7	20	0.25	0.21	7.01	0.12	8.10	43.3	142
A10025063A	0.67	0.017			1.40	7.56	5.7	20	0.40	0.72	6.38	0.14	8.04	36.9	154
A10025064A	0.48	0.021			1.52	7.66	6.0	20	0.27	0.79	6.23	0.14	7.17	34.3	157
A10025065A	0.45	0.187			2.28	7.43	<5	110	0.84	0.82	11.85	0.08	6.69	34.6	102
A10025066A	0.55	0.688			5.02	6.80	131.5	90	1.46	4.06	4.94	0.12	5.59	47.8	114
A10025067A	0.54	0.789			6.32	6.41	127.0	90	1.22	4.23	5.01	0.19	6.83	59.3	119
A10025068A	0.66	0.097			0.61	7.84	8.1	210	0.40	0.28	5.55	0.14	9.17	46.2	97
A10025069A	0.64	0.086			0.98	6.57	24.6	50	0.48	0.37	2.52	0.07	35.80	29.2	14
A10025070A	1.13	0.015			1.02	7.73	4.4	360	0.71	0.28	4.72	0.17	8.13	45.5	148
A10025071A	0.91	0.204			2.66	8.37	77.4	530	1.63	1.78	2.50	0.10	9.60	49.2	156
A10025072A	1.54	0.917			6.37	7.93	246.0	250	2.09	1.02	4.20	0.13	5.32	45.1	136
A10025073A	1.55	0.217			3.75	8.92	183.0	220	1.40	0.96	6.12	0.10	5.86	43.8	135
A10025074A	1.60	0.027			1.17	7.52	14.0	30	0.46	0.93	6.57	0.24	5.90	74.0	146
A10025075A	1.38	9.42			1.82	6.63	7.0	110	2.20	0.18	4.16	0.03	4.96	39.0	136
A10025076A	1.51	0.049			1.10	7.13	5.4	10	0.19	0.63	6.67	0.11	4.65	41.7	125
A10025077A	1.66	0.077			2.66	6.60	13.8	20	0.36	1.09	5.60	0.09	5.79	104.5	119
A10025078A	1.57	0.459			3.29	7.38	41.0	110	1.23	1.33	5.95	0.12	6.22	44.1	114
A10025079A	1.78	5.11			>100	7.77	79.0	150	1.37	2.49	4.29	0.27	4.20	47.8	138

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: TECK COMINCO LIMITED
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
A10025031A		10.80	148.0	8.77	17.00	0.13	1.4	<0.01	0.071	0.71	2.8	92.3	4.03	1440	0.62	1.03
A10025032A		3.01	104.5	7.78	15.70	0.13	0.7	<0.01	0.052	0.30	1.9	43.0	5.05	1450	0.38	1.10
A10025033A		7.31	61.8	6.54	14.95	0.10	1.1	<0.01	0.055	0.73	2.4	69.0	2.76	1230	0.52	0.87
A10025034A		10.85	156.5	6.11	11.90	0.10	1.0	<0.01	0.040	1.31	3.8	45.9	2.68	770	0.66	0.82
A10025035A		6.38	5.7	0.92	19.05	0.05	2.5	<0.01	0.013	1.73	7.8	45.2	0.26	150	0.55	3.28
A10025036A		10.15	121.5	7.75	18.70	0.11	0.9	<0.01	0.061	1.16	2.1	83.1	3.23	1350	1.02	1.10
A10025037A		11.25	156.5	8.01	18.00	0.11	1.0	<0.01	0.054	1.17	2.4	89.1	3.31	1210	1.15	1.33
A10025038A		21.40	140.0	9.56	17.60	0.12	1.3	<0.01	0.055	0.76	2.6	138.5	4.26	1485	3.38	0.76
A10025039A		19.05	179.5	9.10	18.60	0.15	1.1	0.01	0.062	1.16	2.3	92.0	3.52	1225	0.51	1.15
A10025040A		13.40	54.8	6.00	19.15	0.09	2.0	<0.01	0.047	1.15	5.2	87.6	2.48	907	0.45	1.94
A10025041A		10.70	121.0	8.01	18.80	0.11	1.4	<0.01	0.057	0.84	3.6	133.5	3.60	1305	0.85	2.01
A10025042A		13.60	186.0	9.04	16.80	0.13	0.8	<0.01	0.059	0.27	2.3	85.8	4.48	1590	0.35	1.93
A10025051A		1.13	276.0	12.40	22.00	0.16	2.0	<0.01	0.081	0.10	4.8	30.0	2.34	1460	0.48	1.91
A10025052A		15.25	48.1	8.51	19.25	0.13	1.1	<0.01	0.081	0.74	3.2	89.2	2.96	1435	0.24	1.37
A10025054A		13.65	48.3	8.30	18.50	0.11	1.2	<0.01	0.078	1.03	2.8	110.0	3.47	1225	0.20	0.57
A10025055A		21.70	42.4	12.70	19.05	0.16	1.7	<0.01	0.066	1.23	2.1	139.0	3.66	1100	0.28	0.59
A10025056A		7.72	148.0	8.78	17.25	0.13	1.3	<0.01	0.067	0.59	3.7	69.0	3.92	1345	0.52	0.98
A10025057A		1.39	116.0	8.57	16.75	0.11	0.7	<0.01	0.061	0.11	2.6	39.3	3.90	1530	0.46	1.59
A10025058O		21.60	60.1	6.36	15.15	0.12	0.9	<0.1	0.037	1.21	1.9	93.8	2.77	765	44.90	1.43
A10025059A		23.00	90.1	7.69	13.95	0.12	0.8	<0.1	0.045	1.09	3.2	97.2	6.24	2370	12.00	0.18
A10025060A		18.65	266.0	9.34	15.50	0.15	1.1	<0.1	0.051	1.07	2.5	112.5	4.67	1675	15.30	0.82
A10025061A		24.30	137.0	4.24	18.80	0.08	2.0	0.01	0.032	1.59	3.2	110.5	1.59	473	32.70	2.51
A10025062A		1.83	112.5	8.56	17.10	0.19	0.8	<0.01	0.064	0.12	3.0	40.0	3.86	1555	1.19	1.64
A10025063A		1.69	200.0	9.62	16.50	0.14	0.9	<0.01	0.086	0.09	3.0	51.3	3.85	1450	1.52	1.70
A10025064A		1.76	122.5	9.95	15.70	0.14	1.0	<0.01	0.089	0.08	2.7	49.5	4.07	1475	0.93	1.66
A10025065A		27.80	96.8	8.43	16.70	0.12	1.3	<0.01	0.055	1.49	2.4	136.0	5.36	1980	3.29	0.55
A10025066A		17.85	129.0	11.00	17.40	0.16	1.0	<0.01	0.081	0.68	2.0	54.8	2.59	1270	9.56	1.74
A10025067A		16.15	306.0	11.25	17.20	0.17	1.0	<0.01	0.120	0.68	2.6	55.3	2.88	1585	7.52	1.48
A10025068A		3.25	178.0	9.72	18.40	0.14	1.4	<0.01	0.082	0.39	3.2	63.1	3.83	1540	1.11	2.17
A10025069A		16.65	65.1	11.65	24.40	0.19	5.1	<0.1	0.148	0.26	13.1	74.8	2.40	2240	1.56	0.76
A10025070A		29.00	125.5	8.78	18.75	0.14	1.3	<0.01	0.066	2.05	2.9	103.5	4.89	1465	0.46	0.73
A10025071A		19.90	233.0	7.31	21.30	0.13	1.6	<0.01	0.050	3.51	4.0	123.0	2.25	809	2.64	0.55
A10025072A		27.70	298.0	7.50	19.20	0.14	1.0	<0.01	0.072	2.86	1.9	130.5	2.99	1050	1.34	1.38
A10025073A		22.70	263.0	9.89	17.05	0.14	0.9	<0.01	0.060	1.97	2.2	106.0	3.67	1195	3.04	2.89
A10025074A		4.08	302.0	9.98	17.00	0.16	0.8	<0.01	0.093	0.21	2.3	62.0	3.21	1485	1.06	2.01
A10025075A		11.30	300.0	6.90	15.85	0.11	0.8	0.01	0.055	0.79	1.7	78.0	1.82	670	0.56	1.06
A10025076A		0.81	417.0	10.90	13.90	0.13	0.6	<0.01	0.078	0.10	1.7	24.3	3.23	1290	1.00	1.48
A10025077A		2.38	227.0	13.10	15.30	0.19	0.7	<0.1	0.074	0.15	2.2	36.7	3.37	1280	1.71	1.29
A10025078A		21.90	166.0	7.29	17.25	0.14	1.2	<0.1	0.064	1.31	2.4	99.6	3.38	1160	4.12	1.41
A10025079A		23.80	766.0	9.20	20.50	0.16	1.2	<0.1	0.101	1.45	1.5	105.0	2.63	871	2.33	1.48

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
A10025031A		2.6	95.5	310	4.6	33.4	0.003	0.36	0.79	47.1	2	0.5	223.0	0.19	0.11	0.2
A10025032A		1.6	115.0	230	1.6	10.1	<0.002	0.08	0.57	54.1	2	0.4	236.0	0.17	0.06	0.2
A10025033A		2.5	80.1	240	3.2	33.7	<0.002	0.09	1.71	38.5	2	0.6	210.0	0.17	<0.05	0.2
A10025034A		1.7	62.0	150	10.4	43.9	<0.002	2.51	1.80	19.5	2	0.4	235.0	0.11	0.15	0.7
A10025035A		1.6	4.3	230	9.9	57.1	<0.002	0.24	0.91	2.5	1	0.4	330.0	0.11	<0.05	2.1
A10025036A		2.3	131.5	230	10.1	33.0	<0.002	1.07	0.61	42.7	2	0.5	320.0	0.15	0.22	0.2
A10025037A		2.2	125.0	280	9.9	44.3	0.002	2.59	0.80	44.2	3	0.5	221.0	0.15	0.55	0.2
A10025038A		2.3	104.5	270	3.2	45.8	0.005	1.33	0.56	45.3	3	0.5	133.0	0.15	0.28	0.2
A10025039A		2.5	133.5	290	3.5	27.3	<0.002	0.61	1.48	40.3	2	0.5	319.0	0.17	0.07	0.2
A10025040A		2.8	62.7	290	8.6	29.8	<0.002	0.43	0.92	24.7	2	0.7	315.0	0.19	<0.05	1.0
A10025041A		2.6	87.0	280	6.9	38.1	0.002	0.74	0.58	36.8	2	0.5	252.0	0.18	0.15	0.5
A10025042A		2.1	98.5	250	2.8	12.9	0.002	0.40	0.37	50.0	3	0.9	107.0	0.15	0.20	0.2
A10025051A		4.4	15.9	550	1.6	2.6	<0.002	0.03	1.44	44.0	2	0.5	144.5	0.28	<0.05	0.4
A10025052A		2.6	48.4	320	2.7	23.5	<0.002	0.11	0.55	45.6	2	0.5	125.5	0.19	0.08	0.2
A10025054A		2.8	75.7	330	2.0	70.9	<0.002	0.29	0.87	45.1	2	0.5	263.0	0.18	0.15	0.3
A10025055A		3.5	69.9	430	1.2	69.0	0.002	3.32	0.47	55.0	2	0.6	42.2	0.22	0.07	0.3
A10025056A		2.9	100.5	280	1.0	27.7	0.002	0.15	0.67	42.4	2	0.4	126.0	0.16	<0.05	0.4
A10025057A		2.2	91.2	260	3.7	3.1	<0.002	0.09	2.40	43.8	2	0.5	207.0	0.14	0.08	0.2
A10025058O		1.1	60.9	190	9.6	82.4	0.003	5.44	2.21	29.9	5	2.1	212.0	0.07	2.38	0.3
A10025059A		1.4	69.1	170	3.8	68.0	0.005	2.29	0.61	31.2	3	0.5	143.5	0.09	1.16	<0.2
A10025060A		1.4	95.7	170	6.5	66.6	0.004	5.63	1.02	35.0	4	0.6	156.5	0.09	2.76	0.2
A10025061A		1.3	37.2	260	13.7	72.7	0.002	3.26	1.70	17.7	3	2.7	236.0	0.10	2.31	1.2
A10025062A		2.3	92.1	240	3.8	3.6	0.002	0.09	2.62	55.2	2	0.5	199.0	0.17	0.12	0.3
A10025063A		2.3	88.0	270	4.1	2.5	<0.002	0.68	1.76	47.3	3	0.6	155.0	0.15	0.34	0.3
A10025064A		2.2	81.3	240	4.2	2.1	0.002	0.93	1.72	44.5	4	0.6	148.5	0.15	0.40	0.3
A10025065A		1.9	86.3	280	6.2	90.6	0.002	2.35	1.05	39.0	3	0.5	189.5	0.13	1.25	0.2
A10025066A		1.3	71.7	230	13.6	44.3	<0.002	9.62	1.33	34.8	8	1.3	136.0	0.09	3.48	0.2
A10025067A		1.3	76.1	190	14.0	48.9	<0.002	9.60	1.35	33.0	7	1.4	118.5	0.09	4.03	0.2
A10025068A		2.7	70.5	310	3.4	10.8	0.002	0.72	0.97	48.9	2	0.4	514.0	0.18	0.29	0.3
A10025069A		9.4	6.7	1150	4.7	14.8	<0.002	1.62	2.07	39.3	4	1.5	181.5	0.59	0.36	1.1
A10025070A		2.3	98.3	270	7.1	100.0	<0.002	1.21	0.63	46.8	2	0.5	301.0	0.15	0.36	0.2
A10025071A		2.1	83.3	330	8.0	148.0	0.002	3.88	2.52	46.7	4	0.6	145.0	0.15	1.84	0.5
A10025072A		1.6	97.5	280	10.3	227.0	0.002	4.61	2.93	46.0	5	0.6	263.0	0.15	4.84	0.3
A10025073A		1.9	99.1	340	9.1	139.0	0.002	4.90	2.66	40.7	4	0.5	371.0	0.16	3.06	0.2
A10025074A		2.5	84.2	250	17.5	15.0	0.002	1.64	1.63	45.5	5	0.6	157.5	0.18	0.37	0.2
A10025075A		1.6	46.6	270	1.3	58.0	0.003	2.57	0.62	32.4	2	0.4	161.5	0.12	0.16	0.2
A10025076A		1.6	71.0	230	6.1	2.8	<0.002	1.80	1.34	29.2	5	0.5	150.5	0.11	0.45	0.2
A10025077A		2.0	84.6	240	4.5	9.2	0.002	4.77	1.00	35.6	8	0.5	142.0	0.13	1.41	0.2
A10025078A		1.9	75.6	240	10.3	95.1	0.003	3.65	1.58	40.6	4	0.7	221.0	0.15	2.34	0.2
A10025079A		1.8	90.1	270	13.0	70.5	0.002	5.92	2.35	41.7	8	1.7	210.0	0.16	57.60	0.2

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A10025031A		0.545	0.29	0.1	267	8.5	21.4	90	46.8		
A10025032A		0.373	0.09	<0.1	233	0.6	15.8	75	21.7		
A10025033A		0.524	0.36	0.1	236	1.5	16.4	75	33.9		
A10025034A		0.245	0.38	0.3	116	1.2	10.0	52	31.8		
A10025035A		0.079	0.46	0.7	17	2.2	2.2	23	74.3		
A10025036A		0.486	0.42	0.1	249	7.9	16.0	99	27.9		
A10025037A		0.495	0.49	0.1	274	5.4	15.6	77	34.9		
A10025038A		0.502	0.47	0.1	257	11.5	16.1	96	40.6		
A10025039A		0.564	0.44	0.1	255	3.6	16.1	99	37.4		
A10025040A		0.411	0.35	0.4	189	2.1	14.7	70	59.3		
A10025041A		0.499	0.43	0.2	223	6.3	16.4	99	43.6		
A10025042A		0.492	0.22	0.1	256	1.2	17.6	96	27.1		
A10025051A		1.000	0.04	0.1	368	0.7	32.0	113	57.6		
A10025052A		0.612	0.45	0.1	285	2.1	20.8	62	36.5		
A10025054A		0.617	0.61	0.1	290	3.7	22.4	46	38.2		
A10025055A		0.908	0.70	0.1	388	13.8	15.9	84	52.3		
A10025056A		0.533	0.24	0.1	258	2.5	21.3	32	39.2		
A10025057A		0.482	0.03	0.1	250	1.1	17.9	76	21.4		
A10025058O		0.239	0.80	0.2	227	30.7	8.8	37	31.5		
A10025059A		0.303	0.77	0.1	237	16.1	20.6	82	25.6		
A10025060A		0.310	0.70	0.1	274	20.8	17.3	73	34.2		
A10025061A		0.162	0.90	0.6	449	9.8	6.6	30	58.3		
A10025062A		0.491	0.04	0.1	255	1.4	19.4	79	18.8		
A10025063A		0.508	0.05	0.1	267	2.4	18.3	84	29.8		
A10025064A		0.493	0.05	0.1	253	1.9	17.7	82	26.7		
A10025065A		0.438	0.96	0.1	275	16.2	18.3	90	37.1		
A10025066A		0.346	0.58	0.1	321	16.4	11.7	42	31.9		
A10025067A		0.311	0.56	0.1	413	19.4	15.0	45	32.1		
A10025068A		0.625	0.14	0.1	309	2.3	21.6	91	40.2		
A10025069A		1.065	0.19	0.3	90	2.5	50.7	162	150.5		
A10025070A		0.510	1.02	0.1	263	4.0	19.3	136	41.5		
A10025071A		0.477	1.27	0.2	283	19.7	17.9	71	51.4		
A10025072A		0.458	2.48	0.1	294	45.6	16.4	70	35.3		
A10025073A		0.500	1.92	0.1	275	30.4	16.6	67	30.6		
A10025074A		0.512	0.18	0.1	252	3.8	19.2	96	30.2		
A10025075A		0.388	0.48	0.1	374	8.1	11.6	31	30.2		
A10025076A		0.417	0.05	<0.1	228	1.6	13.2	77	19.9		
A10025077A		0.416	0.13	0.1	223	5.1	16.1	68	26.0		
A10025078A		0.411	0.90	0.1	271	20.3	15.4	67	36.4		
A10025079A		0.447	1.10	0.1	853	36.9	13.7	72	39.1	98	

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Au ppm	Au Check ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A10025080A		1.85	0.926			20.80	8.14	13.1	50	0.54	0.85	6.30	0.28	5.94	38.9	163
A10025081A		1.85	0.039			1.78	7.98	5.7	60	0.61	0.40	6.49	0.14	6.67	45.0	160
A10025101A		1.27	0.020			0.52	7.86	3.4	90	0.57	0.03	8.09	0.26	5.51	43.2	214
A10025102A		0.95	0.766			0.70	8.27	12.3	280	1.24	0.06	4.72	0.10	7.03	36.4	189
A10025103A		0.58	0.277			0.84	8.47	8.2	280	1.48	0.08	5.60	0.20	6.05	37.6	215
A104V5104A		0.64	0.037			0.83	8.32	2.1	80	0.72	0.03	6.59	0.13	8.15	47.0	173
A10025105A		0.77	0.024			0.74	9.04	14.1	430	1.04	0.11	5.24	0.08	3.59	50.0	258
A10025106A		1.61	0.046			0.53	8.56	5.6	590	1.16	0.28	7.33	0.02	9.59	36.2	161
A10025107A		1.34	0.042			0.27	8.32	1.3	170	0.59	0.38	6.62	0.11	10.10	42.2	151
A10025108A		1.07	0.080			1.29	7.04	28.7	290	0.80	1.62	0.41	0.04	6.98	8.4	36
A10025109A		1.02	0.117			0.82	7.17	22.6	380	1.07	0.21	2.68	0.07	10.00	12.3	62
A10025151A		0.83	0.013			0.07	7.11	5.5	70	0.62	0.11	7.67	0.05	13.65	42.5	27
A10025152A		0.29	0.185			0.22	6.55	4.8	120	1.78	0.29	9.26	0.08	5.77	31.2	91
A10015153A		1.14	>10.0		15.55	3.58	6.53	7.2	80	1.34	0.15	4.54	0.03	5.22	31.9	150
A10025134A		1.13	0.077			0.10	9.46	4.2	140	1.70	0.09	3.95	0.05	3.84	46.2	196
A10025155A		1.23	0.364			1.28	7.06	6.2	40	0.76	0.23	4.56	0.05	8.59	42.3	59
A10025156A		1.17	0.016			0.19	8.30	4.6	10	0.32	0.10	7.92	0.13	7.07	48.7	166
A10025157A		0.57	0.014			0.12	8.05	6.6	30	0.24	<0.01	6.38	0.12	6.39	46.1	158
A10025158A		0.98	0.206			1.75	8.48	22.8	160	1.15	0.19	4.43	0.09	6.29	46.8	160
A10025159A		0.58	0.176			4.06	8.58	120.5	230	1.35	0.66	4.33	0.17	5.22	43.5	177
A10025160A		1.42	0.075			1.76	8.00	35.7	240	1.01	2.12	3.28	0.28	5.75	61.1	149
A10025161A		0.63	0.082			1.23	8.97	42.0	140	1.13	2.15	6.37	0.19	6.73	46.9	226
A10025162A		1.16	0.031			0.90	8.38	6.5	60	0.57	1.54	7.44	0.12	6.36	42.8	230
A10025163A		0.92	0.033			1.17	9.38	6.6	90	0.84	1.53	7.46	0.12	7.42	50.6	241
A10025164A		1.20	0.369			4.83	7.99	57.3	200	1.36	2.22	6.48	0.13	5.72	46.3	185
A10025165A		0.61	0.014			0.80	7.89	3.7	40	0.57	1.64	7.00	0.06	8.20	39.9	216
A10025166A		0.77	0.103			0.52	7.76	67.1	690	1.51	0.12	1.63	0.03	13.80	3.8	21
A10025167A		1.25	0.144			3.55	7.77	65.3	320	1.68	4.36	2.27	0.05	5.11	41.8	209
A10025168A		0.54	0.013			1.14	7.72	21.2	90	0.75	0.68	6.14	0.04	6.86	38.7	159
A10025169A		0.78	0.005			0.40	8.03	3.1	20	0.61	0.50	7.15	0.05	7.19	35.9	150
A10025170A		0.71	0.018			1.72	7.76	9.9	60	1.22	1.73	6.13	0.39	6.54	38.9	154
A10025171A		0.89	0.233			3.35	9.15	156.0	200	2.33	1.36	3.61	<0.02	6.58	48.0	172
A10025172A		0.89	0.054			1.94	7.94	9.7	200	1.61	3.67	4.50	<0.02	6.04	38.5	165
A10025173A		1.00	0.032			0.90	8.66	36.7	80	1.03	1.10	6.68	0.09	8.84	49.8	171
A10025174A		0.76	0.047			2.31	7.82	63.1	140	1.44	3.00	5.85	<0.02	6.67	44.1	153
A10025175A		0.82	0.166			0.53	8.26	15.9	390	1.33	0.23	5.03	0.11	11.60	24.1	134
A10025176A		2.05	0.096			0.92	7.80	206.0	370	1.07	0.06	6.25	0.14	4.85	41.3	193
A10025177A		1.34	0.090			1.19	8.03	32.3	130	0.60	0.04	6.84	0.11	5.58	48.1	203
A10025178A		1.02	0.105			0.50	8.85	11.7	190	1.85	0.02	4.57	0.14	7.23	49.2	173
A10025179A		1.22	0.042			0.25	7.52	30.9	400	1.29	0.20	2.55	0.05	11.50	14.7	55

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
A10025080A		15.20	414.0	10.00	19.35	0.14	0.9	<0.1	0.100	0.54	2.3	64.6	3.68	1410	1.34	1.60
A10025081A		22.20	169.5	8.91	18.70	0.14	0.9	<0.1	0.068	0.58	2.5	62.7	4.45	1430	1.19	1.56
A10025101A		4.15	99.8	7.17	17.30	0.11	0.9	<0.1	0.062	0.50	2.1	132.5	4.42	1370	0.36	1.04
A10025102A		14.35	99.5	5.79	18.90	0.09	1.4	<0.1	0.048	1.41	2.9	110.0	2.79	886	2.35	1.71
A10025103A		11.05	116.0	8.12	20.00	0.12	1.2	<0.1	0.057	1.42	2.5	153.0	4.54	1345	1.54	1.87
A104V5104A		7.40	170.0	9.55	17.90	0.15	1.4	<0.1	0.067	0.64	3.1	97.0	4.59	1370	0.45	1.12
A10025105A		27.30	138.0	8.13	18.40	0.12	0.6	<0.1	0.062	2.81	1.2	90.0	3.56	974	0.23	0.72
A10025106A		17.75	84.5	7.27	23.10	0.12	0.8	<0.1	0.068	2.60	5.2	77.5	3.89	1350	7.54	0.67
A10025107A		8.72	106.5	8.33	17.85	0.14	0.7	<0.1	0.061	0.85	4.9	74.1	3.80	1250	2.14	1.86
A10025108A		5.58	24.3	2.20	15.70	0.05	1.6	<0.1	0.019	1.30	3.4	34.7	0.50	137	3.12	3.65
A10025109A		18.30	45.4	2.76	18.65	0.07	1.7	<0.1	0.022	1.83	4.8	48.2	1.29	494	0.94	2.68
A10025151A		3.17	20.0	10.30	21.90	0.17	2.1	<0.1	0.112	0.54	4.7	49.5	2.06	1365	0.33	0.71
A10025152A		17.10	66.3	5.74	16.85	0.09	1.1	<0.1	0.045	0.67	2.1	40.6	4.02	1385	0.32	1.01
A10015153A		33.00	38.3	6.82	16.80	0.11	1.0	<0.1	0.056	1.23	1.8	69.8	2.83	835	0.33	1.01
A10025134A		62.70	135.0	9.57	21.80	0.16	0.9	<0.1	0.061	2.36	1.1	190.0	4.23	1210	0.29	1.78
A10025155A		26.50	236.0	11.15	19.25	0.17	2.0	<0.1	0.091	0.95	3.0	83.8	3.54	1325	0.51	1.06
A10025156A		1.10	82.0	9.43	18.45	0.13	1.1	<0.01	0.063	0.09	2.7	49.6	4.57	1545	0.50	1.33
A10025157A		1.54	135.0	9.04	17.05	0.13	0.9	<0.01	0.064	0.09	2.4	44.9	4.17	1490	0.38	1.89
A10025158A		29.70	222.0	9.33	17.95	0.15	1.3	0.01	0.067	1.50	2.3	178.0	3.14	1100	0.35	1.14
A10025159A		27.90	240.0	8.31	20.60	0.15	1.2	<0.01	0.055	1.87	1.8	157.5	2.21	782	0.81	1.48
A10025160A		33.80	354.0	9.62	20.70	0.17	1.3	<0.01	0.048	1.99	2.2	262.0	3.24	894	4.33	0.75
A10025161A		9.67	197.5	9.19	23.50	0.15	1.1	<0.01	0.067	1.63	2.5	129.5	5.21	1545	8.70	1.32
A10025162A		5.32	167.5	8.32	18.00	0.13	0.7	<0.01	0.063	0.25	2.4	43.3	4.15	1440	11.70	2.01
A10025163A		12.35	270.0	8.38	18.90	0.13	1.0	<0.01	0.068	0.40	2.8	57.1	3.86	1525	12.80	2.45
A10025164A		18.80	215.0	7.86	16.95	0.14	0.9	<0.01	0.056	1.88	2.1	99.4	3.12	1355	4.70	2.31
A10025165A		1.92	282.0	8.42	18.05	0.13	1.0	<0.01	0.072	0.26	3.1	29.7	4.49	1260	11.00	2.04
A10025166A		6.22	15.0	1.21	20.20	0.06	2.1	<0.01	0.011	2.16	6.9	39.3	0.35	180	0.65	3.03
A10025167A		19.20	387.0	8.73	23.90	0.17	1.4	0.04	0.082	2.44	1.8	113.0	2.14	481	52.10	2.59
A10025168A		12.40	232.0	7.59	17.70	0.13	0.6	0.01	0.056	1.14	2.6	65.2	4.20	1210	58.00	1.48
A10025169A		2.33	64.3	6.95	16.45	0.11	0.9	<0.01	0.053	0.34	2.7	32.9	4.30	1135	30.60	2.17
A10025170A		10.05	644.0	7.80	18.30	0.15	0.7	0.01	0.079	0.84	2.5	77.3	4.19	1390	95.60	2.11
A10025171A		16.90	234.0	6.84	20.90	0.14	1.0	0.01	0.069	2.83	2.4	128.5	1.97	823	63.10	1.45
A10025172A		20.90	855.0	8.17	17.45	0.15	0.8	0.01	0.059	2.94	2.7	143.0	2.91	871	71.60	1.59
A10025173A		6.02	233.0	8.51	18.55	0.13	0.6	<0.01	0.073	0.89	3.4	72.0	3.96	1370	32.00	2.04
A10025174A		16.20	376.0	7.54	18.05	0.14	0.8	<0.01	0.061	1.92	2.5	161.5	3.45	1150	117.00	1.73
A10025175A		18.90	63.1	4.24	19.95	0.09	1.6	<0.01	0.034	1.85	5.4	79.1	2.28	846	3.23	1.94
A10025176A		14.15	117.5	6.86	23.20	0.11	0.9	<0.01	0.051	1.49	1.9	121.5	3.91	1270	3.41	1.93
A10025177A		16.25	151.5	8.55	23.90	0.15	1.1	<0.01	0.060	0.82	2.0	66.3	4.10	1415	3.81	1.69
A10025178A		36.30	167.0	8.65	22.30	0.14	1.4	<0.01	0.080	1.62	2.5	205.0	3.21	1225	0.96	1.45
A10025179A		18.25	44.2	3.81	21.50	0.08	2.1	<0.01	0.040	1.72	5.3	66.5	1.30	571	0.79	2.27

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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North Vancouver BC V7J 2C1
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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2
A10025080A		2.4	89.8	280	7.4	37.7	0.002	1.52	1.45	46.1	4	0.8	175.5	0.18	11.70	0.3
A10025081A		2.5	92.1	260	4.5	44.8	0.002	0.89	0.92	45.5	3	0.5	140.5	0.19	1.01	0.2
A10025101A		1.9	101.5	220	5.7	28.0	<0.002	0.40	1.01	47.5	2	0.5	249.0	0.15	0.40	0.2
A10025102A		2.0	80.5	250	6.4	49.3	<0.002	0.84	0.87	31.6	3	0.5	332.0	0.16	0.49	0.7
A10025103A		2.0	92.5	250	6.4	44.1	<0.002	1.03	0.89	38.2	3	0.5	326.0	0.16	0.38	0.4
A104V5104A		2.9	99.3	340	5.9	39.1	0.002	1.23	0.90	43.3	3	0.5	212.0	0.20	0.54	0.3
A10025105A		1.8	115.0	170	5.9	111.0	<0.002	2.97	0.75	45.4	3	0.5	320.0	0.13	0.17	0.2
A10025106A		2.6	79.8	230	7.4	95.9	0.003	1.03	0.48	46.8	2	0.7	687.0	0.18	0.22	0.3
A10025107A		2.1	119.5	250	5.7	44.9	0.010	3.25	0.13	41.2	3	0.4	434.0	0.15	0.13	0.3
A10025108A		0.7	18.3	230	7.1	67.7	<0.002	0.95	2.10	8.3	2	0.4	212.0	0.06	1.91	1.1
A10025109A		2.0	29.9	190	10.3	106.5	<0.002	0.82	1.79	12.9	2	0.5	321.0	0.17	0.59	1.2
A10025151A		4.4	25.4	570	1.4	33.3	<0.002	0.03	1.15	50.0	3	0.7	206.0	0.28	0.07	0.5
A10025152A		2.4	48.2	340	2.1	64.8	<0.002	0.38	0.57	36.1	2	0.3	329.0	0.16	0.08	0.2
A10015153A		2.1	39.7	300	1.4	100.5	0.002	1.36	0.55	35.6	3	0.4	137.0	0.14	0.15	0.2
A10025134A		2.9	105.5	340	1.2	135.0	0.003	1.09	0.32	43.3	3	0.4	67.3	0.19	0.12	0.2
A10025155A		4.5	28.4	560	1.8	73.5	0.005	2.99	0.55	47.7	4	0.9	76.8	0.28	0.20	0.4
A10025156A		2.6	99.8	270	2.3	2.8	0.002	0.16	0.80	48.1	2	0.6	135.0	0.18	0.08	0.2
A10025157A		2.4	92.1	260	1.2	2.8	0.002	0.10	0.99	45.4	2	0.5	239.0	0.17	0.07	0.2
A10025158A		2.4	96.9	300	10.4	94.9	0.002	2.92	1.06	48.2	3	0.6	186.0	0.17	1.00	0.2
A10025159A		1.9	105.5	380	22.6	79.4	0.002	4.80	1.67	49.2	3	0.6	233.0	0.15	2.43	0.2
A10025160A		1.6	139.5	280	11.1	128.0	0.002	5.43	1.36	43.8	4	0.5	278.0	0.14	1.55	0.2
A10025161A		2.1	122.0	280	8.2	90.0	0.002	3.51	1.46	44.8	4	0.5	234.0	0.15	1.03	0.2
A10025162A		2.3	109.0	260	4.7	11.2	0.002	1.38	1.23	41.6	3	0.5	202.0	0.16	0.42	0.2
A10025163A		2.5	130.5	280	4.3	25.3	0.014	1.63	1.23	47.2	4	0.7	209.0	0.17	0.53	0.2
A10025164A		1.8	108.5	230	12.8	126.0	0.002	6.45	0.79	41.1	5	0.8	248.0	0.13	3.96	0.2
A10025165A		2.8	69.9	360	4.4	9.1	0.002	1.95	0.95	48.3	4	0.8	174.5	0.18	0.37	0.3
A10025166A		1.6	8.0	240	14.8	96.5	<0.002	0.67	1.24	3.5	2	0.5	481.0	0.14	0.44	1.9
A10025167A		1.8	113.0	380	18.1	95.6	0.003	7.96	12.70	43.2	7	1.3	284.0	0.15	2.04	0.2
A10025168A		2.8	108.0	250	10.1	48.2	0.008	0.83	6.10	37.9	3	0.4	451.0	0.21	0.34	0.3
A10025169A		2.9	108.0	300	4.2	7.4	0.004	0.50	0.80	40.3	2	0.6	172.0	0.22	0.16	0.3
A10025170A		3.1	107.0	300	46.5	34.3	0.011	2.51	1.27	39.2	4	0.8	152.5	0.24	0.58	0.2
A10025171A		1.9	111.5	330	15.3	201.0	0.009	5.21	10.70	43.6	4	0.3	165.0	0.17	2.06	0.3
A10025172A		1.2	111.5	310	5.7	153.5	0.005	3.47	0.84	41.7	4	0.5	158.0	0.10	0.98	0.2
A10025173A		3.5	122.0	320	4.8	49.4	0.005	1.44	1.01	42.7	2	0.6	183.0	0.19	0.36	0.3
A10025174A		2.9	111.0	280	8.3	102.0	0.011	5.80	1.39	39.9	5	0.4	164.5	0.22	1.43	0.2
A10025175A		1.9	52.5	280	11.3	74.5	<0.002	0.99	1.27	24.5	2	<0.2	464.0	0.17	0.23	1.1
A10025176A		1.9	92.6	190	11.5	43.2	<0.002	2.95	1.79	39.5	3	<0.2	390.0	0.16	0.63	0.3
A10025177A		2.1	81.2	260	5.9	36.2	0.002	2.75	1.16	52.6	3	<0.2	490.0	0.16	0.62	0.2
A10025178A		3.0	95.1	360	3.0	62.7	0.002	1.42	0.84	51.4	3	0.3	253.0	0.22	0.24	0.2
A10025179A		2.8	26.4	300	11.4	74.4	<0.002	0.66	0.74	17.7	2	0.2	331.0	0.23	0.12	1.2

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A10025080A		0.540	0.49	0.1	449	20.7	18.4	111	30.4		
A10025081A		0.521	0.70	0.1	273	12.7	18.2	80	29.6		
A10025101A		0.415	0.22	<0.1	250	4.0	16.5	107	32.2		
A10025102A		0.367	0.64	0.3	200	15.6	10.6	73	42.9		
A10025103A		0.439	0.60	0.2	235	17.4	13.8	103	39.2		
A104V5104A		0.570	0.36	0.1	285	8.3	22.3	92	45.1		
A10025105A		0.464	1.24	<0.1	281	12.8	14.1	81	22.5		
A10025106A		0.567	0.93	0.2	295	8.5	17.2	75	24.7		
A10025107A		0.451	0.36	0.2	254	1.5	18.4	86	21.9		
A10025108A		0.063	0.48	0.6	53	2.3	3.2	17	48.2		
A10025109A		0.168	1.02	0.6	79	5.4	6.2	56	51.6		
A10025151A		0.921	0.24	0.2	403	3.3	35.6	71	66.6		
A10025152A		0.526	0.42	0.1	291	7.0	14.4	56	36.0		
A10015153A		0.471	0.76	0.1	313	5.6	15.2	36	32.1		12.20
A10025134A		0.656	1.70	0.1	287	3.4	15.7	82	34.4		
A10025155A		0.919	0.68	0.1	362	6.6	24.9	69	65.7		
A10025156A		0.565	0.03	0.1	285	1.0	21.4	96	39.0		
A10025157A		0.530	0.04	0.1	269	0.7	19.5	90	26.4		
A10025158A		0.561	1.09	0.1	288	21.2	17.2	90	41.6		
A10025159A		0.542	1.37	0.1	312	29.7	14.3	100	36.8		
A10025160A		0.413	1.19	0.1	275	13.6	13.5	127	40.1		
A10025161A		0.500	0.85	0.1	292	22.5	16.7	107	36.2		
A10025162A		0.487	0.15	0.1	259	6.7	17.3	97	20.1		
A10025163A		0.536	0.29	0.1	276	8.2	19.7	108	34.9		
A10025164A		0.430	1.71	0.1	230	37.0	16.2	75	30.7		
A10025165A		0.578	0.09	0.1	286	8.7	21.5	58	33.3		
A10025166A		0.094	0.75	0.9	26	3.1	2.8	41	62.6		
A10025167A		0.407	1.32	0.2	292	27.5	14.2	59	42.3		
A10025168A		0.481	0.75	0.1	230	7.2	16.1	59	19.1		
A10025169A		0.524	0.10	0.1	244	18.8	17.8	48	24.5		
A10025170A		0.501	0.60	0.2	251	13.8	16.4	207	19.1		
A10025171A		0.476	1.90	0.1	316	27.9	15.4	62	28.1		
A10025172A		0.251	1.23	0.1	239	19.3	11.1	71	25.6		
A10025173A		0.558	0.63	0.1	269	13.2	19.4	92	16.8		
A10025174A		0.525	1.35	0.1	251	34.6	16.4	84	24.0		
A10025175A		0.288	0.63	0.5	131	9.1	10.3	66	52.2		
A10025176A		0.378	0.66	0.1	254	22.1	12.2	62	31.5		
A10025177A		0.481	0.32	0.1	305	31.6	18.6	83	35.8		
A10025178A		0.652	1.21	0.1	338	5.9	20.7	100	43.1		
A10025179A		0.314	0.67	0.6	109	7.1	10.5	62	64.2		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Sample Description	WEI-21	Au-ICP21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Au ppm	Au Check ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
	0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A10025180A	1.12	2.55			1.61	7.71	24.7	390	1.40	0.13	3.24	0.06	15.20	42.8	73
A10025181A	0.71	0.071			0.20	8.01	8.3	480	1.06	0.43	3.27	0.06	13.20	24.7	77
A10025182A	0.77	0.037			0.11	8.12	25.4	450	1.08	0.09	1.68	0.04	14.40	4.6	28
A10025183A	1.05	0.017			0.11	7.61	2.1	120	0.22	0.07	5.57	0.11	6.69	43.6	141
A10025184A	0.72	0.035			0.35	8.90	8.7	110	1.13	0.10	5.52	0.15	7.97	46.0	376
A10025185A	0.54	0.014			0.55	8.62	31.9	170	1.14	<0.01	5.93	0.16	4.99	48.6	259
A10025186A	0.81	0.048			0.83	7.66	4.2	90	0.83	0.16	5.81	0.18	4.56	44.4	207
A10025187A	0.81	0.010			0.35	8.88	2.2	150	1.22	0.16	6.88	0.13	4.67	51.2	279
A10025188A	1.06	0.007			0.17	8.68	3.8	320	0.89	0.08	6.16	0.13	26.90	31.1	162
A10025189A	0.51	0.035			0.25	8.23	6.9	240	0.69	0.09	3.78	0.05	19.60	16.9	87
A10025190A	0.78	0.003			0.10	7.63	3.5	1900	1.93	0.02	6.46	0.09	111.00	34.0	246
A10025191A	1.16	0.026			0.26	8.16	9.0	380	1.46	0.12	4.06	0.11	19.90	23.4	76
A10025192A	2.12	0.323			1.20	6.20	68.3	90	1.25	0.06	3.09	0.11	10.25	52.2	13
A10025193A	1.28	0.197			0.51	7.62	41.2	150	1.49	0.56	4.66	0.15	7.65	44.7	78
A10025194A	1.02	0.103			1.19	6.17	118.5	330	0.58	0.05	2.76	0.13	24.50	19.8	8
A10025195A	1.21	0.025			0.43	6.89	23.2	40	0.32	<0.01	2.31	0.08	27.10	32.4	3
A10025196A	1.16	0.019			0.18	7.82	5.6	710	1.19	0.12	1.50	0.05	73.10	17.5	107
A10025197A	1.38	0.018			0.26	8.53	0.8	190	0.87	0.04	4.96	0.11	6.68	48.6	246
A10025198A	0.59	0.028			0.50	8.42	2.9	300	0.84	0.18	6.35	0.12	8.36	48.9	153
A10025199A	1.05	0.016			0.25	8.43	1.7	320	0.63	0.09	5.97	0.12	6.15	43.7	143
A10025200A	1.48	0.037			0.60	8.07	1.4	60	0.38	0.67	5.95	0.13	7.71	42.7	88
A10025401A	0.90	1.020			3.48	3.91	55	100	0.61	0.63	14.30	0.23	7.56	30.0	46
A10025402A	0.27	0.067			1.09	8.72	45.9	180	1.79	0.19	7.11	0.13	6.50	30.4	168
A10025403A	0.33	0.028			0.31	7.50	5.7	10	0.27	<0.01	6.65	0.13	6.42	43.3	135
A10025404A	0.44	0.009			1.52	8.62	15.2	160	0.85	0.25	4.34	0.10	5.58	36.3	131
A10025405A	0.67	0.023			0.63	7.67	7.8	130	0.66	0.51	4.68	0.22	8.14	53.0	138
A10025406A	0.40	0.006			0.15	7.39	4.3	500	1.14	0.28	1.37	0.03	11.30	3.7	14
A10025407A	0.50	0.001			0.07	7.86	3.7	590	1.16	0.37	2.29	0.06	30.50	8.7	50
A10025408A	1.01	0.002			0.09	7.47	0.6	450	0.75	0.09	4.94	0.12	42.50	22.5	81
A10025409A	1.21	0.004			0.05	7.62	0.5	900	1.50	0.06	3.73	0.04	69.20	20.8	187
A10025410A	1.04	0.024			0.20	7.80	10.0	750	1.45	0.11	0.98	0.03	20.80	4.3	21
A10025411A	0.95	0.010			0.10	7.84	11.5	220	1.01	1.88	5.80	0.19	17.05	52.3	18
A10025412A	0.60	0.198			0.43	6.85	266.0	140	0.86	2.15	2.39	0.08	24.30	33.3	3
A10025413A	0.58	0.001			0.03	8.34	2.2	430	1.02	0.08	3.04	0.05	23.70	18.9	76
A10025414A	0.53	0.004			0.13	7.91	3.2	180	0.92	0.24	7.26	0.12	21.50	25.1	89
A10025415A	0.69	0.019			0.12	9.07	10.1	420	1.05	0.23	1.35	<0.02	22.00	12.7	63
A10025416A	0.76	0.015			0.28	9.39	27.5	550	1.32	0.10	0.83	<0.02	17.90	10.2	62
A10025417A	0.90	0.012			0.13	8.05	2.8	870	1.34	0.27	0.64	0.03	11.70	2.8	18
A10025418A	1.18	0.008			0.12	7.53	5.5	730	1.64	0.28	3.02	0.05	23.70	5.2	33
A10025419A	0.94	0.008			0.34	7.49	4.6	980	1.24	0.27	7.93	0.10	32.90	42.8	349

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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North Vancouver BC V7J 2C1
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4000 TRANS-CANADA HIGHWAY
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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
A10025180A		17.15	129.5	8.52	21.60	0.16	2.3	0.01	0.077	1.47	6.3	60.4	2.32	884	1.10	1.35
A10025181A		15.70	61.9	4.57	21.10	0.10	2.1	<0.01	0.040	1.85	5.9	99.6	1.80	592	0.54	1.42
A10025182A		9.14	13.9	1.35	19.50	0.05	2.0	<0.01	0.012	1.51	7.6	37.7	0.46	193	0.69	3.02
A10025183A		9.67	96.3	8.39	16.40	0.13	1.1	<0.01	0.058	0.42	2.4	72.5	4.25	1340	0.51	1.63
A10025184A		18.45	158.0	8.95	20.50	0.13	1.2	<0.01	0.071	0.82	3.0	120.5	3.94	1450	0.53	1.41
A10025185A		23.70	120.5	8.46	17.30	0.14	0.8	<0.01	0.060	1.79	1.8	138.0	4.38	1300	0.39	0.73
A10025186A		17.65	133.0	8.31	16.80	0.13	0.9	<0.01	0.049	0.86	1.7	103.0	5.15	1375	2.05	1.20
A10025187A		16.75	136.5	7.84	17.30	0.12	0.7	<0.01	0.060	1.30	1.7	97.9	3.93	1310	0.42	1.62
A10025188A		18.75	78.6	5.80	19.05	0.11	1.9	<0.01	0.046	1.08	13.3	122.5	3.15	1040	0.95	2.07
A10025189A		6.32	36.7	4.12	21.20	0.08	2.3	<0.01	0.091	0.50	8.5	52.1	2.33	569	1.67	3.85
A10025190A		14.00	91.3	6.22	19.20	0.22	3.7	<0.01	0.059	2.35	52.5	234.0	4.60	989	0.32	2.41
A10025191A		22.30	55.7	5.00	19.85	0.10	2.1	<0.01	0.044	1.71	9.0	71.7	2.00	800	0.64	1.50
A10025192A		14.45	192.0	12.25	18.60	0.19	1.6	<0.01	0.082	0.80	3.9	72.9	2.20	1110	1.94	1.00
A10025193A		10.75	153.0	8.94	18.25	0.14	1.1	<0.01	0.069	0.70	2.9	88.5	2.87	1380	0.28	1.85
A10025194A		26.30	21.6	7.57	22.50	0.16	4.2	0.01	0.095	1.25	10.0	69.8	1.13	985	3.22	0.72
A10025195A		12.95	35.3	12.45	28.40	0.20	4.0	<0.01	0.150	0.18	10.4	72.6	2.53	2390	1.05	0.59
A10025196A		4.74	27.4	3.42	21.60	0.14	3.7	<0.01	0.026	1.72	35.7	27.2	1.41	446	0.69	3.38
A10025197A		21.00	149.0	7.66	20.30	0.13	1.0	<0.01	0.067	1.56	2.4	178.0	2.85	1145	0.48	1.39
A10025198A		7.03	130.5	10.30	19.30	0.16	1.1	<0.01	0.064	1.07	3.2	126.0	4.03	1560	0.98	0.83
A10025199A		3.42	116.5	8.89	17.90	0.13	1.0	<0.01	0.062	0.62	2.3	86.2	4.98	1490	0.58	0.30
A10025200A		6.35	305.0	9.34	19.15	0.15	1.2	<0.01	0.074	0.27	2.8	62.8	3.99	1375	2.61	2.12
A10025401A		28.10	109.0	7.10	8.87	0.13	0.4	<0.01	0.033	1.18	3.2	98.3	6.46	2680	7.13	0.42
A10025402A		19.20	116.0	5.79	17.95	0.10	0.9	<0.01	0.065	1.52	2.4	153.5	2.41	1340	0.61	1.40
A10025403A		1.76	135.0	8.55	15.75	0.13	0.7	<0.01	0.059	0.09	2.4	76.4	4.32	1530	0.55	1.33
A10025404A		24.10	186.5	6.94	18.70	0.09	1.2	<0.01	0.066	1.44	2.0	188.5	2.97	1215	0.58	1.65
A10025405A		17.75	173.0	9.11	16.05	0.11	1.2	<0.01	0.065	0.75	3.2	190.0	5.15	1630	0.80	0.45
A10025406A		17.05	8.6	1.24	17.05	0.05	1.8	<0.01	0.014	1.51	5.5	111.0	1.05	192	2.52	2.48
A10025407A		14.00	9.7	1.82	18.40	0.07	2.2	<0.01	0.019	1.28	15.3	38.9	0.97	473	0.76	2.86
A10025408A		9.40	22.3	3.92	18.90	0.10	2.9	<0.01	0.029	1.42	20.5	64.6	2.21	886	0.31	1.59
A10025409A		9.69	25.5	3.53	18.45	0.11	4.0	<0.01	0.031	2.20	34.0	61.0	2.26	592	1.67	2.26
A10025410A		10.50	8.5	1.14	17.65	0.06	2.2	<0.01	0.015	1.88	10.8	36.3	0.35	180	0.43	2.50
A10025411A		11.60	24.7	12.05	23.70	0.14	2.7	<0.01	0.138	0.44	6.7	66.6	3.09	2310	0.52	0.95
A10025412A		6.35	9.7	10.35	23.70	0.15	4.8	0.01	0.149	0.61	8.9	79.6	0.94	1590	1.60	1.57
A10025413A		27.90	9.5	2.70	23.80	0.09	2.8	<0.01	0.038	1.58	10.3	85.7	1.25	398	0.95	1.70
A10025414A		12.05	27.0	6.16	20.60	0.10	2.2	<0.01	0.045	0.60	10.4	56.7	3.45	1220	3.70	0.58
A10025415A		11.25	12.6	2.89	20.70	0.07	2.8	<0.01	0.028	1.82	10.7	74.8	1.07	273	1.37	1.75
A10025416A		15.35	3.7	3.69	22.10	0.07	2.7	0.01	0.029	2.53	9.1	92.4	1.01	226	1.36	1.38
A10025417A		12.60	11.8	1.33	21.30	0.05	2.0	<0.01	0.017	2.23	6.7	67.1	0.34	148	0.58	1.96
A10025418A		19.10	9.2	1.93	20.40	0.06	2.4	<0.01	0.013	1.36	12.1	50.4	0.97	437	0.57	2.17
A10025419A		12.20	92.0	6.92	15.90	0.11	2.0	<0.01	0.052	1.26	15.8	129.0	4.85	1370	0.80	0.50

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Total # Pages: 7 (A - D)
Finalized Date: 22-JUN-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2
A10025180A		3.8	54.1	470	7.2	63.3	0.002	2.97	1.57	37.6	4	0.3	465.0	0.25	0.86	0.7
A10025181A		2.6	47.0	320	8.9	76.7	<0.002	0.67	0.71	22.1	2	0.4	238.0	0.20	0.09	1.3
A10025182A		1.5	9.6	250	13.0	56.3	<0.002	0.72	0.62	4.0	1	<0.2	299.0	0.13	<0.05	1.8
A10025183A		2.6	106.5	310	1.7	25.3	0.002	0.08	0.66	38.0	2	<0.2	184.5	0.19	0.05	0.3
A10025184A		2.5	91.8	360	3.8	27.8	0.002	1.25	3.10	49.6	3	0.2	330.0	0.19	0.12	0.2
A10025185A		1.9	119.5	230	4.4	79.8	<0.002	0.51	2.98	44.9	2	<0.2	344.0	0.15	0.23	<0.2
A10025186A		1.4	91.1	210	7.3	53.0	0.002	2.08	0.80	43.7	3	<0.2	194.5	0.12	0.47	<0.2
A10025187A		2.0	108.5	230	4.0	36.9	0.002	0.80	0.56	47.4	2	<0.2	265.0	0.15	0.26	<0.2
A10025188A		2.7	72.0	340	5.3	49.0	0.002	0.34	0.97	30.6	2	0.2	471.0	0.21	0.14	2.7
A10025189A		2.2	40.8	510	4.2	10.8	<0.002	0.49	0.58	14.0	2	1.2	386.0	0.16	0.35	1.1
A10025190A		8.0	105.0	2450	11.3	88.3	<0.002	0.26	0.50	25.3	2	0.7	1905.0	0.36	0.05	6.7
A10025191A		2.7	51.8	370	10.9	74.5	<0.002	0.46	0.83	21.3	2	0.2	351.0	0.21	0.07	1.7
A10025192A		3.5	24.8	450	4.9	46.4	0.004	6.09	1.88	49.6	4	0.2	212.0	0.24	0.64	0.4
A10025193A		2.4	54.1	280	5.9	32.9	<0.002	2.31	1.25	52.8	3	0.6	350.0	0.19	0.25	0.3
A10025194A		5.4	3.8	800	14.1	52.2	<0.002	5.36	7.67	25.2	3	0.5	267.0	0.38	<0.05	1.7
A10025195A		9.7	1.4	1200	3.7	9.6	<0.002	1.22	2.79	42.7	4	0.7	201.0	0.60	<0.05	1.0
A10025196A		4.4	89.0	890	18.5	50.5	<0.002	0.31	0.42	10.0	2	0.4	573.0	0.31	0.35	8.4
A10025197A		2.6	127.5	290	4.6	43.7	0.002	0.47	0.38	46.2	3	<0.2	228.0	0.19	0.13	0.3
A10025198A		2.4	105.5	270	13.3	46.5	<0.002	0.76	0.73	46.1	2	<0.2	242.0	0.17	0.16	0.3
A10025199A		2.2	110.0	280	4.3	25.2	<0.002	0.49	0.36	44.2	2	<0.2	193.0	0.16	0.15	0.2
A10025200A		2.9	54.1	350	6.1	11.6	0.003	1.42	0.50	50.2	4	<0.2	157.5	0.20	0.73	0.3
A10025401A		0.9	55.7	120	5.8	79.1	<0.002	4.33	0.60	18.0	4	<0.2	150.0	0.07	2.74	<0.2
A10025402A		2.6	62.0	320	9.0	83.1	0.003	1.25	1.36	51.3	3	0.2	283.0	0.18	0.71	0.2
A10025403A		2.1	88.2	270	1.4	3.7	0.002	0.16	1.02	42.7	2	<0.2	197.5	0.16	0.16	0.2
A10025404A		2.6	95.2	310	8.8	53.5	0.002	1.14	0.89	41.6	2	0.5	232.0	0.19	0.87	0.2
A10025405A		2.1	118.5	280	12.8	41.6	0.002	1.06	2.12	39.6	2	0.6	286.0	0.15	0.40	0.2
A10025406A		1.1	8.0	180	12.5	77.6	<0.002	0.31	0.94	3.3	1	0.4	313.0	0.10	0.16	1.7
A10025407A		3.2	26.1	410	23.9	53.3	<0.002	0.02	0.71	6.5	1	0.6	745.0	0.27	<0.05	3.7
A10025408A		4.6	76.2	900	10.6	34.5	<0.002	0.01	1.06	11.9	1	0.6	516.0	0.34	<0.05	5.0
A10025409A		7.0	64.5	1000	14.6	71.3	<0.002	0.05	0.40	12.0	1	1.0	755.0	0.46	<0.05	8.8
A10025410A		2.5	8.4	230	22.1	63.4	<0.002	0.19	0.84	3.9	1	0.5	506.0	0.19	<0.05	4.8
A10025411A		5.7	6.2	710	4.4	17.9	0.003	0.80	1.90	59.6	3	1.4	415.0	0.35	0.14	0.8
A10025412A		7.4	0.9	1380	8.1	24.3	0.006	8.25	1.41	42.0	3	0.8	263.0	0.49	0.05	1.0
A10025413A		2.6	45.5	460	9.5	41.8	0.002	0.12	0.46	16.2	2	1.0	318.0	0.20	<0.05	2.0
A10025414A		2.9	48.9	380	5.7	27.9	0.003	0.64	1.98	18.2	2	0.8	409.0	0.19	0.05	2.0
A10025415A		1.0	26.4	450	8.5	53.5	<0.002	1.48	0.91	13.5	1	1.1	329.0	0.08	0.06	2.3
A10025416A		1.3	25.3	450	7.3	96.8	<0.002	2.32	5.48	12.5	1	0.8	317.0	0.09	0.07	2.0
A10025417A		2.1	3.8	170	15.2	75.4	<0.002	0.15	0.64	5.3	2	0.9	359.0	0.17	<0.05	2.5
A10025418A		2.5	9.9	210	22.8	54.8	<0.002	0.25	1.01	3.5	2	0.6	704.0	0.18	<0.05	3.6
A10025419A		3.4	97.0	940	5.7	48.9	<0.002	0.45	1.94	34.7	2	0.8	1040.0	0.20	0.06	3.1

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A10025180A		0.771	0.59	0.2	260	9.4	19.0	90	69.3		
A10025181A		0.337	0.67	0.5	140	5.7	10.3	71	64.1		
A10025182A		0.095	0.47	0.7	26	1.2	3.1	42	63.8		
A10025183A		0.558	0.22	0.1	247	0.8	19.9	77	36.0		
A10025184A		0.554	0.39	0.1	280	9.0	21.1	87	39.6		
A10025185A		0.451	1.12	<0.1	267	8.1	16.0	95	26.3		
A10025186A		0.354	0.51	<0.1	247	4.6	15.6	92	27.6		
A10025187A		0.472	0.65	<0.1	275	4.7	16.3	89	20.7		
A10025188A		0.336	0.39	0.9	176	2.0	13.7	68	60.0		
A10025189A		0.268	0.14	0.3	110	4.2	6.8	60	72.5		
A10025190A		0.579	0.51	1.5	207	1.1	22.4	76	126.5		
A10025191A		0.333	0.67	0.7	146	6.7	11.6	82	66.0		
A10025192A		0.979	0.57	0.1	386	12.1	21.9	90	50.8		
A10025193A		0.570	0.42	0.1	286	10.5	19.7	115	36.5		
A10025194A		0.713	0.54	0.7	49	1.3	30.1	119	127.0		
A10025195A		1.315	0.13	0.2	82	0.8	50.2	195	130.0		
A10025196A		0.269	0.38	1.9	67	0.6	8.8	59	128.0		
A10025197A		0.534	0.60	0.1	271	11.2	18.0	93	33.7		
A10025198A		0.524	0.39	0.1	279	15.9	19.2	152	37.0		
A10025199A		0.508	0.17	0.1	266	1.9	19.9	90	32.8		
A10025200A		0.640	0.16	0.1	315	3.1	22.8	87	39.4		
A10025401A		0.180	0.87	0.1	80	26.5	18.0	75	16.0		
A10025402A		0.596	1.05	0.1	277	14.1	19.1	71	29.6		
A10025403A		0.465	0.05	0.1	249	1.4	18.4	85	26.6		
A10025404A		0.549	1.02	0.1	281	9.7	15.6	97	30.8		
A10025405A		0.475	0.54	0.1	236	7.5	18.5	124	35.0		
A10025406A		0.073	0.68	0.7	26	1.7	2.5	39	55.2		
A10025407A		0.163	0.42	1.5	42	0.6	6.0	54	67.5		
A10025408A		0.310	0.32	1.4	91	0.6	8.4	90	103.0		
A10025409A		0.313	0.62	2.1	94	1.0	10.9	60	143.0		
A10025410A		0.100	0.44	1.5	22	1.2	3.1	39	63.3		
A10025411A		1.925	0.35	0.2	546	51.0	42.0	166	82.3		
A10025412A		0.975	0.26	0.3	33	20.4	55.2	89	149.0		
A10025413A		0.314	0.46	0.6	107	3.1	8.5	35	88.7		
A10025414A		0.292	0.18	0.6	126	2.3	12.4	64	68.3		
A10025415A		0.130	0.32	0.7	91	1.4	7.0	31	89.7		
A10025416A		0.156	0.62	0.6	95	2.1	6.2	27	87.8		
A10025417A		0.115	0.55	1.1	33	2.4	2.9	28	60.1		
A10025418A		0.097	0.57	1.5	26	0.9	4.0	51	80.2		
A10025419A		0.435	0.43	0.6	210	3.9	15.3	103	64.8		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Au Check ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
A10025420A		0.91	0.003			0.10	7.36	3.1	540	1.25	0.44	1.64	0.04	12.90	3.4	30
A10025421A		0.57	0.021			0.07	7.05	43.2	390	1.23	0.12	1.97	0.05	10.25	3.4	34
A10025422A		0.60	0.091			0.93	4.30	120.0	190	0.36	0.01	1.22	0.21	16.80	34.5	7
A10025423A		0.65	0.113			0.75	6.12	50.2	330	0.89	0.61	2.19	0.09	28.60	20.5	7
A10025424A		0.89	0.069			0.64	5.73	77.2	150	1.52	0.01	2.28	0.12	30.60	19.8	7
A10025425A		0.38	0.031			0.16	7.59	16.1	100	0.79	0.01	1.39	0.03	40.00	16.8	3
A10025426A		1.18	0.039			0.15	7.84	65.6	420	1.33	0.10	2.34	0.17	23.90	9.6	26
A10025427A		1.00	0.012			0.26	8.95	8.8	440	0.93	0.09	5.97	0.20	8.58	55.9	112
A10025428A		1.72	0.064			0.70	7.65	115.5	490	1.25	0.23	1.98	0.10	13.00	27.1	21
A10025429A		0.89	0.075			0.22	6.61	59.8	390	0.85	0.28	2.40	0.06	18.70	18.6	45
A10025430A		1.08	0.114			0.43	3.50	50.3	250	0.57	0.16	1.51	0.06	14.30	40.4	8
A10025431A		0.96	0.054			0.27	8.63	34.1	390	1.20	0.11	1.44	0.03	31.90	12.3	107
A16025432A		1.86	0.096			0.69	9.32	9.8	280	2.72	0.69	5.37	0.10	8.95	41.3	151
A10025433A		1.45	0.068			0.54	8.60	22.5	220	1.57	0.47	3.20	0.06	10.40	50.2	160
A10025434A		0.35	0.028			0.24	6.75	17.1	160	1.65	0.18	2.24	0.02	13.75	16.7	113
A10025435A		0.56	0.027			0.23	8.93	11.2	310	1.50	0.08	4.45	0.05	64.00	19.2	14
A10025436A		1.30	0.123			1.31	1.90	96.6	80	0.63	0.03	0.66	0.27	3.54	12.4	14
A10025437A		1.15	0.147			1.02	2.81	130.0	80	1.37	0.05	2.11	0.08	6.00	7.8	13
A10025438A		2.41	9.33			6.81	6.42	116.5	140	1.67	0.08	1.96	0.12	17.65	29.0	2
A10025439A		1.03	0.020			0.20	9.17	2.8	90	0.28	0.07	6.58	0.15	7.88	60.8	180
A10025440A		0.81	0.023			0.24	7.91	6.0	480	0.96	0.14	4.17	0.09	34.30	26.9	106
A10025441A		0.74	0.574			0.40	7.73	8.2	160	0.98	0.05	4.75	0.05	12.35	45.5	73
A10025442A		0.89	0.138			0.35	7.39	5.5	120	1.90	0.02	5.79	0.12	11.10	44.4	70
A10025443A		0.59	0.097			0.21	8.19	3.8	170	0.88	0.04	5.71	0.14	15.40	42.2	134
A10025444A		1.53	0.117			1.03	6.43	87.6	160	1.14	0.19	3.86	0.06	9.24	47.7	117
A10025445A		1.03	0.751			0.62	6.64	66.8	200	1.33	0.01	1.61	0.03	5.30	47.0	165
A10025446A		0.57	0.023			0.39	8.78	15.8	100	0.31	0.04	5.58	0.25	7.89	40.6	265
A10025447A		0.62	0.010			0.07	7.10	<0.2	50	0.30	0.08	8.51	0.13	8.10	51.9	133
A10025448A		0.58	<0.001			0.05	8.93	2.0	120	0.50	0.09	6.06	0.09	4.94	52.0	80
A10025449A		1.16	0.038			0.21	8.15	11.8	260	1.39	0.10	4.02	0.10	16.25	23.6	44
A10025450A		1.04	0.019			0.21	7.61	8.4	170	0.95	0.05	3.96	0.08	17.10	53.0	3

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Project: 244500

CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Hg-CV41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.1	0.01	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
A10025420A		17.45	4.1	1.34	15.95	0.05	1.7	0.01	0.008	0.94	6.5	66.3	0.62	270	2.34	2.56
A10025421A		11.15	12.2	1.25	16.35	0.06	1.6	0.01	0.009	0.96	5.1	54.5	0.46	276	0.37	2.36
A10025422A		10.05	17.8	9.95	22.30	0.13	3.3	0.01	0.102	0.93	6.3	50.7	0.63	566	0.86	0.58
A10025423A		33.40	24.0	8.86	20.90	0.13	4.6	0.01	0.117	0.90	11.3	112.5	1.17	1465	3.31	0.78
A10025424A		30.60	7.9	8.68	19.80	0.14	4.7	0.01	0.152	1.07	11.8	82.0	1.07	1045	0.66	0.71
A10025425A		19.95	7.8	10.95	29.70	0.16	6.6	<0.01	0.168	0.99	13.9	107.5	1.81	2270	0.67	0.88
A10025426A		16.20	13.4	4.15	22.90	0.08	4.0	<0.01	0.081	1.07	11.0	96.9	0.93	833	0.62	1.51
A10025427A		21.20	126.0	9.40	19.00	0.11	1.4	<0.01	0.067	0.99	3.4	97.1	3.91	1495	0.32	1.04
A10025428A		13.70	102.5	5.76	21.70	0.08	2.3	0.01	0.074	1.44	6.0	96.3	0.76	821	0.54	1.37
A10025429A		25.80	20.1	7.88	21.90	0.11	3.7	0.01	0.091	1.31	8.0	100.5	1.17	1270	1.87	0.96
A10025430A		5.54	38.5	9.10	15.70	0.11	2.9	0.01	0.083	0.53	5.5	30.8	0.76	923	2.42	0.64
A10025431A		11.15	29.7	2.59	22.20	0.07	2.2	<0.01	0.024	2.34	15.1	98.3	0.82	368	0.74	0.85
A16025432A		15.35	157.0	9.03	20.10	0.11	1.4	<0.01	0.082	1.04	3.4	111.0	2.86	1270	0.44	1.07
A10025433A		17.45	161.5	9.66	20.60	0.12	1.6	0.01	0.071	1.28	4.1	189.5	2.42	1125	0.31	1.34
A10025434A		13.70	41.4	3.33	15.85	0.07	1.7	<0.01	0.033	1.04	6.4	87.5	1.15	303	0.80	1.62
A10025435A		25.60	9.6	4.46	22.50	0.13	3.9	<0.01	0.057	2.01	28.6	126.8	1.91	761	0.85	0.91
A10025436A		5.33	5.1	3.63	6.08	0.06	1.0	1.21	0.032	0.67	1.4	31.8	0.41	238	8.46	0.15
A10025437A		6.29	6.4	4.56	6.32	0.07	1.3	0.01	0.042	0.77	2.4	40.8	0.57	460	6.26	0.37
A10025438A		18.25	95.7	14.35	22.50	0.17	3.2	0.03	0.123	0.71	6.4	82.0	1.19	1630	0.97	1.24
A10025439A		5.07	153.5	9.32	18.50	0.13	1.2	<0.01	0.068	0.27	2.9	124.0	4.75	1440	0.30	1.85
A10025440A		19.60	63.7	4.97	18.30	0.10	2.4	<0.01	0.039	1.50	16.8	77.3	2.43	841	0.41	1.66
A10025441A		11.90	29.8	11.20	18.85	0.14	1.7	<0.01	0.071	0.51	4.6	92.5	3.75	1310	0.24	1.89
A10025442A		14.25	89.7	8.03	16.55	0.12	1.4	<0.01	0.056	0.93	4.5	151.5	3.71	1375	0.48	0.35
A10025443A		15.30	105.0	7.84	17.40	0.11	1.8	<0.01	0.058	1.03	6.8	59.0	3.65	1355	0.48	1.25
A10025444A		18.20	27.8	8.99	15.45	0.11	1.1	0.01	0.072	1.15	3.5	95.3	2.56	959	1.08	0.57
A10025445A		14.70	59.2	9.34	15.30	0.11	1.1	<0.01	0.053	1.11	2.1	128.5	2.25	1025	0.36	0.70
A10025446A		11.10	193.5	9.51	19.50	0.11	1.1	0.01	0.089	0.89	2.9	110.0	4.00	2150	0.30	0.97
A10025447A		2.30	42.3	9.64	14.15	0.11	0.9	<0.01	0.070	0.26	3.4	54.9	5.53	1895	0.14	0.93
A10025448A		2.53	20.1	7.31	20.20	0.11	0.8	<0.01	0.054	0.30	1.7	92.1	3.95	1175	0.09	2.38
A10025449A		16.90	35.0	5.11	20.00	0.11	2.4	<0.01	0.042	0.99	7.3	84.4	2.12	974	0.33	2.00
A10025450A		23.60	132.0	13.20	26.70	0.16	2.3	<0.01	0.128	0.63	6.0	93.6	2.66	2010	0.42	1.61

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2
A10025420A		1.8	12.8	190	23.7	43.9	<0.002	0.13	0.99	2.3	1	0.5	457.0	0.15	<0.05	1.7
A10025421A		1.7	11.8	190	19.3	43.6	<0.002	0.24	2.32	2.6	1	0.4	311.0	0.13	<0.05	1.6
A10025422A		3.1	6.7	950	16.1	42.0	<0.002	>10.0	7.16	21.8	2	0.6	135.5	0.21	<0.05	0.7
A10025423A		8.5	2.9	1060	13.0	48.4	<0.002	3.76	6.06	24.8	3	0.9	325.0	0.51	<0.05	1.4
A10025424A		4.5	0.6	1420	13.5	54.6	<0.002	8.26	6.94	27.2	3	0.6	187.0	0.31	<0.05	1.0
A10025425A		13.3	0.6	1580	4.6	36.8	<0.002	1.47	2.08	35.3	3	0.9	155.0	0.79	<0.05	1.4
A10025426A		4.6	6.5	820	11.3	49.7	<0.002	1.89	1.76	19.3	2	0.7	348.0	0.32	<0.05	2.0
A10025427A		2.6	119.5	350	9.3	43.0	0.002	1.10	1.90	53.1	2	0.5	741.0	0.16	0.16	0.3
A10025428A		2.5	26.9	480	13.0	69.4	<0.002	3.79	2.78	34.8	2	0.7	272.0	0.17	<0.05	1.1
A10025429A		5.7	10.5	820	12.9	57.7	0.002	2.80	4.29	33.7	3	0.7	469.0	0.37	<0.05	1.0
A10025430A		5.0	4.3	700	8.4	21.6	0.002	5.42	3.52	22.9	3	0.6	227.0	0.30	<0.05	0.6
A10025431A		1.0	20.5	340	9.7	74.9	<0.002	1.05	2.12	14.3	1	0.5	159.5	0.08	<0.05	1.8
A16025432A		3.0	57.2	460	3.1	43.3	0.002	3.76	1.84	49.4	3	0.7	488.0	0.19	0.23	0.3
A10025433A		3.3	60.8	510	3.5	41.5	0.002	4.85	0.71	45.7	3	0.7	260.0	0.20	0.11	0.5
A10025434A		0.9	50.5	420	4.7	45.8	<0.002	1.98	0.50	15.8	2	0.4	236.0	0.06	0.06	1.1
A10025435A		4.2	14.7	2070	6.9	70.5	<0.002	1.48	1.20	12.3	2	1.0	208.0	0.27	<0.05	5.2
A10025436A		1.1	3.9	230	4.5	32.6	0.002	2.89	3.49	11.0	2	0.5	44.2	0.08	0.42	0.3
A10025437A		1.4	0.9	330	5.5	36.9	<0.002	3.25	3.47	14.4	2	0.4	114.0	0.09	0.36	0.3
A10025438A		7.0	1.1	890	3.8	33.6	<0.002	8.22	2.64	48.6	5	0.9	244.0	0.42	0.29	0.7
A10025439A		2.6	172.5	290	2.1	12.0	0.002	0.34	1.14	45.1	2	0.5	354.0	0.16	0.09	0.2
A10025440A		3.2	75.1	520	10.8	48.6	<0.002	0.24	1.22	21.6	2	0.6	710.0	0.22	<0.05	3.5
A10025441A		3.4	65.8	550	2.7	24.4	<0.002	2.18	1.40	42.6	2	0.6	291.0	0.21	<0.05	0.4
A10025442A		2.3	105.5	330	3.1	57.3	<0.002	1.70	1.19	30.5	2	0.5	199.0	0.14	<0.05	0.5
A10025443A		2.9	84.3	360	3.4	32.2	<0.002	0.65	0.62	35.1	2	0.5	240.0	0.17	0.06	1.1
A10025444A		1.8	86.4	280	4.9	69.9	<0.002	7.42	3.32	34.2	2	0.9	220.0	0.11	0.42	0.2
A10025445A		2.3	81.3	310	6.0	62.1	<0.002	4.71	2.65	37.7	2	0.7	170.0	0.13	0.13	0.2
A10025446A		2.8	67.7	350	2.4	32.6	<0.002	1.05	2.24	58.2	2	0.7	173.0	0.17	0.07	0.2
A10025447A		1.6	96.1	210	2.1	9.2	<0.002	0.03	0.79	31.7	2	0.8	143.0	0.10	<0.05	<0.2
A10025448A		2.4	146.0	290	2.3	2.5	<0.002	0.07	0.50	22.5	2	0.3	262.0	0.15	<0.05	<0.2
A10025449A		3.4	39.1	360	7.2	44.2	<0.002	0.71	1.99	19.4	2	0.6	303.0	0.23	<0.05	1.6
A10025450A		6.1	12.4	730	1.7	42.5	<0.002	1.09	0.74	49.3	3	0.6	162.0	0.35	0.08	0.5

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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CERTIFICATE OF ANALYSIS TB07053792

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Au-AA25
	Analyte Units LOR	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Au ppm
		0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.01
A10025420A		0.082	0.42	5.3	14	0.7	2.3	45	52.3		
A10025421A		0.072	0.39	0.6	16	0.5	2.3	66	46.2		
A10025422A		0.406	0.37	0.2	18	2.5	35.7	135	106.5		
A10025423A		0.846	0.49	0.5	36	3.6	43.8	109	149.5		
A10025424A		0.629	0.57	0.2	16	3.6	46.1	165	156.0		
A10025425A		1.085	0.39	0.3	9	10.6	56.1	192	220.0		
A10025426A		0.512	0.36	0.6	30	2.5	23.0	113	124.5		
A10025427A		0.623	0.38	0.1	315	2.6	20.9	140	40.3		
A10025428A		0.724	0.51	0.5	468	5.9	13.1	82	68.7		
A10025429A		0.914	0.51	1.2	122	5.9	26.1	87	113.0		
A10025430A		0.736	0.15	0.4	42	3.7	22.8	51	95.3		
A10025431A		0.159	0.48	0.5	87	0.6	6.5	35	71.4		
A16025432A		0.707	0.47	0.1	333	5.8	18.9	79	42.4		
A10025433A		0.720	0.54	0.1	321	6.8	18.0	102	49.5		
A10025434A		0.145	0.33	0.3	96	1.8	5.6	28	53.6		
A10025435A		0.400	0.77	1.1	130	3.2	16.1	77	138.0		
A10025436A		0.172	0.31	<0.1	32	2.4	12.0	78	31.9		
A10025437A		0.189	0.33	0.1	40	3.4	11.5	27	40.9		
A10025438A		1.520	0.53	0.2	153	29.9	40.8	121	98.9		
A10025439A		0.540	0.11	0.1	255	0.7	20.3	103	33.0		
A10025440A		0.341	0.47	1.2	136	1.4	9.9	87	75.4		
A10025441A		0.779	0.22	0.1	363	4.2	26.2	61	48.4		
A10025442A		0.499	0.55	0.1	243	8.3	19.0	98	41.0		
A10025443A		0.514	0.38	0.4	251	2.9	17.5	99	55.3		
A10025444A		0.382	0.64	0.1	243	3.9	15.0	42	31.4		
A10025445A		0.521	0.58	0.1	261	3.8	12.9	48	33.2		
A10025446A		0.793	0.37	0.1	393	2.2	18.7	185	32.4		
A10025447A		0.427	0.06	<0.1	223	0.9	18.3	168	25.1		
A10025448A		0.493	0.11	<0.1	226	0.6	12.3	80	25.0		
A10025449A		0.360	0.34	0.7	139	9.4	14.6	70	70.7		
A10025450A		1.320	0.54	0.1	509	11.5	39.1	150	67.5		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method. Detection limits on samples requiring dilutions for Hg-CV41, due to interferences or high concentration levels, have been increased according to the



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Project: 244500

P.O. No.:

This report is for 116 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 20-AUG-2007.

The following have access to data associated with this certificate:

GRAEME EVANS

ALLAN TURNER

LISA VONDRASEK

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: TECK COMINCO LIMITED
ATTN: LISA VONDRASEK
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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:

Lawrence Ng, Laboratory Manager - Vancouver



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Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
A10027201A	1.63	0.38	8.87	9.0	90	0.54	0.24	6.76	0.26	11.00	48.8	188	9.97	124.5	9.12	
A10027202A	1.84	0.62	8.87	6.4	120	1.14	0.53	4.86	0.07	8.04	48.0	199	29.30	184.5	7.87	
A10027203A	1.94	0.62	7.10	16.2	40	0.26	0.44	6.64	0.09	8.08	52.5	143	0.95	272.0	8.47	
A10027204A	2.40	0.90	8.30	18.8	720	1.46	0.46	4.85	0.09	9.13	47.1	178	9.53	163.0	6.91	
A10027205A	1.32	0.14	7.38	4.2	480	1.06	0.10	1.45	0.05	11.70	4.1	18	11.70	12.5	1.19	
A10027206A	1.08	0.97	8.66	4.7	930	0.78	2.47	6.02	0.40	7.91	55.8	109	30.00	222.0	7.66	
A10027207A	1.68	0.13	7.78	7.0	380	0.96	0.22	1.04	0.06	15.30	4.7	22	10.65	19.9	1.22	
A10027208A	1.66	0.39	8.09	6.1	730	1.03	0.53	3.33	0.14	49.90	27.0	82	14.05	76.7	4.34	
A10027209A	2.27	1.10	8.02	13.9	120	0.57	0.86	5.44	0.22	7.76	50.4	106	11.35	181.5	8.34	
A10027210A	0.97	1.33	7.61	57.0	230	1.04	2.65	4.72	0.62	8.97	49.3	97	20.80	160.5	7.97	
A10027211A	1.60	0.52	8.30	5.5	90	0.67	0.82	7.41	0.46	7.43	52.1	156	6.26	137.5	9.07	
A10027212A	1.80	1.07	8.03	4.9	90	0.63	1.27	5.84	0.25	7.67	46.8	144	19.45	175.5	8.16	
A10027213A	1.91	0.65	8.33	1.9	50	0.50	0.68	7.39	0.15	8.40	52.4	150	2.62	150.5	9.21	
A10027214A	2.49	1.00	7.70	5.1	50	0.50	1.89	6.14	0.15	7.88	46.0	126	19.30	184.0	8.71	
A10027215A	2.20	0.44	8.44	10.0	40	0.46	0.74	6.66	0.11	7.51	50.1	149	10.45	117.5	9.11	
A10027216A	2.17	1.62	7.80	27.6	110	0.66	1.29	5.47	0.12	7.85	55.3	133	18.80	151.5	8.92	
A10027217A	1.29	1.12	7.37	14.0	80	0.87	0.60	5.81	0.10	9.23	42.8	133	20.60	116.5	8.17	
A10027218A	2.13	2.40	6.60	103.0	140	0.90	4.47	7.46	0.14	3.45	58.7	73	10.40	85.1	9.07	
A10027219A	1.62	2.59	7.00	100	130	0.91	6.29	10.30	0.17	3.00	40.0	77	11.45	52.7	8.74	
A10027220A	3.22	0.53	8.74	4.2	20	0.47	0.58	8.10	0.17	8.02	53.5	165	5.17	142.5	10.40	
A10027221A	1.50	0.37	7.78	3.1	20	0.43	0.37	7.04	0.15	7.87	48.9	146	1.46	129.5	9.20	
A10027222A	1.92	0.91	8.16	9.1	80	0.88	1.71	5.72	0.21	12.45	39.5	114	10.50	237.0	8.46	
A10027223A	2.36	0.45	8.32	3.8	130	1.22	0.71	6.92	0.10	9.01	44.0	126	11.20	161.0	7.48	
A10027224A	1.94	0.54	8.04	4.1	60	0.64	1.26	7.04	0.12	7.81	45.7	111	15.60	154.5	8.78	
A10027225A	2.51	1.83	7.89	9.9	70	0.57	2.00	5.74	0.24	7.48	57.6	105	12.55	536.0	10.00	
A10027226A	1.52	0.38	8.06	5.6	140	0.66	0.56	6.54	0.09	10.15	41.0	106	8.83	135.0	8.03	
A10027227A	2.36	1.06	8.09	7.7	60	0.69	1.42	5.66	0.16	8.37	44.5	120	16.50	195.0	9.20	
A10027228A	1.83	0.50	8.77	4.7	130	1.11	0.37	6.58	0.09	8.70	49.9	118	17.40	130.5	9.25	
A10027229A	2.04	0.47	8.15	4.4	70	0.50	0.52	7.80	0.14	8.71	45.5	116	8.82	122.5	8.98	
A10027230A	2.34	1.28	7.72	17.0	150	1.00	0.22	3.84	0.36	5.45	46.3	234	20.60	190.0	8.55	
A10027231A	1.64	0.49	7.96	12.2	140	0.98	0.06	6.46	0.18	5.92	48.0	246	20.00	124.5	7.80	
A10027232A	2.53	4.10	6.76	130.5	80	0.85	0.34	2.51	30.10	5.18	36.3	183	11.80	565.0	9.52	
A10027233A	2.50	4.15	5.92	81.9	90	1.12	0.65	1.56	27.40	2.94	43.4	185	6.10	345.0	8.48	
A10027234A	1.98	0.50	5.28	10.7	30	0.44	0.13	1.54	0.25	4.18	32.5	177	2.75	60.2	5.97	
A10027235A	1.93	0.53	4.80	8.0	150	0.88	0.19	3.86	0.33	4.37	27.9	134	12.30	77.9	4.79	
A10027236A	1.64	0.55	5.18	22.1	200	1.16	0.17	4.54	0.33	8.54	20.6	109	7.41	69.4	4.82	
A10027237A	2.90	1.50	7.90	7.3	240	1.55	0.09	4.58	0.12	8.37	44.6	162	12.45	139.0	8.12	
A10027238A	1.71	0.65	8.59	9.6	230	1.45	0.04	5.78	0.12	9.57	46.1	175	10.40	135.0	8.40	
A10027239A	2.88	0.56	7.94	10.7	170	1.14	0.02	6.30	0.12	8.94	44.8	163	5.31	122.5	7.82	
A10027240A	2.03	15.40	7.15	51.3	170	1.48	0.55	3.67	0.88	9.07	37.0	114	14.40	164.0	7.48	

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Total # Pages: 4 (A - D)
Finalized Date: 16-SEP-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
A10027201A		19.25	0.19	1.1	0.085	0.38	5.6	55.9	4.38	1470	0.94	1.47	2.6	104.0	290	3.8
A10027202A		20.00	0.17	1.5	0.067	0.99	3.3	80.9	2.97	1015	0.99	2.34	2.6	101.5	320	4.7
A10027203A		17.70	0.13	0.9	0.094	0.13	3.2	34.2	3.58	1370	0.92	1.44	2.3	92.7	280	2.4
A10027204A		20.10	0.13	1.2	0.076	2.38	4.0	111.0	2.60	1070	0.66	0.87	2.3	109.0	320	5.0
A10027205A		20.20	0.07	2.3	0.015	1.63	6.3	36.5	0.45	212	0.19	3.13	1.6	17.7	180	10.8
A10027206A		21.00	0.14	1.5	0.064	2.25	3.3	98.8	4.89	1300	3.43	1.19	2.5	104.5	290	11.8
A10027207A		17.65	<0.05	2.4	0.011	1.68	8.0	40.8	0.52	168	0.38	3.07	1.2	9.0	210	12.6
A10027208A		22.40	0.14	3.5	0.044	1.51	25.3	94.5	2.30	676	1.98	2.40	3.3	77.5	660	12.1
A10027209A		18.50	0.13	1.2	0.073	0.56	2.9	87.7	4.31	1380	1.51	1.82	2.4	96.0	290	8.2
A10027210A		20.30	0.12	1.2	0.078	1.47	4.6	139.5	3.56	1360	7.45	1.41	1.7	86.5	290	15.9
A10027211A		18.05	0.11	1.1	0.062	0.31	3.0	58.1	5.11	1740	1.80	1.17	2.2	126.0	290	8.0
A10027212A		18.00	0.12	1.3	0.072	0.35	3.2	76.4	4.74	1720	2.00	1.75	1.7	99.8	290	9.9
A10027213A		18.95	0.13	1.1	0.070	0.14	3.3	62.7	5.07	1730	0.86	1.44	2.3	121.5	300	4.0
A10027214A		17.65	0.12	1.0	0.103	0.26	3.0	60.2	3.78	1330	2.85	1.64	2.3	89.5	290	6.1
A10027215A		18.20	0.12	1.0	0.082	0.26	3.0	75.8	4.40	1540	3.64	1.66	2.2	107.5	280	5.1
A10027216A		18.15	0.14	1.1	0.082	0.92	3.3	109.5	3.85	1280	1.45	0.97	2.0	107.5	290	6.1
A10027217A		16.25	0.14	1.4	0.069	0.96	3.8	117.0	3.92	1280	2.32	1.13	2.3	91.5	300	7.4
A10027218A		16.55	0.16	1.3	0.054	2.43	1.4	79.1	3.69	1290	8.06	0.40	1.1	79.2	240	7.0
A10027219A		16.55	0.15	1.1	0.045	2.63	1.2	92.3	5.41	1390	17.95	0.43	1.0	68.5	210	6.7
A10027220A		18.20	0.17	1.3	0.076	0.23	3.1	67.6	5.48	1780	0.81	1.41	2.4	125.5	320	4.9
A10027221A		17.00	0.14	1.1	0.070	0.13	3.0	61.9	4.82	1560	1.58	1.63	2.3	104.5	290	5.0
A10027222A		18.65	0.19	1.4	0.092	0.57	6.1	78.2	4.16	1330	2.54	1.36	2.6	84.5	330	9.6
A10027223A		18.55	0.14	1.0	0.070	0.72	4.2	75.5	3.58	1100	0.72	1.09	2.5	87.6	310	4.8
A10027224A		17.90	0.15	1.0	0.092	0.42	3.5	63.7	4.12	1440	1.98	1.76	2.3	93.1	270	5.5
A10027225A		18.25	0.18	1.1	0.091	0.46	3.0	72.9	3.59	1220	0.85	1.64	2.2	95.0	280	11.5
A10027226A		16.95	0.15	1.4	0.064	0.71	4.8	70.9	4.41	1310	0.55	1.49	2.2	84.0	290	5.1
A10027227A		19.45	0.15	1.4	0.079	0.54	3.3	66.3	4.35	1410	1.73	2.03	2.7	74.0	350	8.7
A10027228A		19.50	0.17	1.4	0.074	0.48	3.2	66.6	4.01	1490	0.44	1.86	2.9	84.4	360	5.5
A10027229A		18.30	0.15	0.9	0.077	0.22	3.5	45.2	4.18	1540	0.43	1.44	2.3	87.1	300	4.3
A10027230A		16.45	0.15	1.3	0.058	1.23	1.9	152.0	5.26	1160	1.49	0.82	1.2	99.9	210	11.4
A10027231A		16.15	0.13	1.2	0.058	0.83	2.3	86.7	4.98	1490	0.55	1.06	1.7	102.5	220	8.0
A10027232A		15.70	0.17	0.9	0.205	0.45	2.0	145.0	7.14	1270	3.64	0.39	0.9	82.4	180	51.1
A10027233A		13.95	0.15	0.9	0.140	0.63	1.5	113.0	4.47	901	2.47	0.30	0.7	73.7	160	27.3
A10027234A		10.85	0.12	0.8	0.028	0.17	1.4	136.5	6.53	1020	0.59	0.14	0.8	71.8	140	9.4
A10027235A		9.96	0.10	0.7	0.030	0.82	1.6	100.0	5.73	1190	1.20	0.36	0.8	60.9	150	6.2
A10027236A		11.00	0.13	0.8	0.034	0.81	3.1	62.7	5.57	1630	0.79	0.82	1.0	47.4	140	8.8
A10027237A		18.90	0.16	1.4	0.076	1.21	3.6	125.5	2.94	1230	0.41	1.72	2.9	88.1	350	5.2
A10027238A		20.20	0.14	1.6	0.082	1.08	4.3	106.0	3.01	1270	0.64	1.64	3.2	93.3	390	4.3
A10027239A		17.65	0.15	1.5	0.074	0.67	4.6	92.1	2.60	1230	0.47	1.35	2.8	80.9	310	3.2
A10027240A		16.50	0.16	1.6	0.115	0.89	3.9	97.1	2.08	885	5.62	1.78	2.4	76.0	300	10.3

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Total # Pages: 4 (A - D)

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CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
A10027201A		22.6	0.002	0.22	1.60	50.8	3	0.7	204.0	0.18	0.20	0.5	0.542	0.25	0.1	297
A10027202A		69.3	0.003	1.54	0.60	59.4	3	0.6	231.0	0.19	0.56	0.4	0.588	0.82	0.1	312
A10027203A		3.1	0.003	0.36	2.26	44.6	2	0.6	124.5	0.14	0.10	0.3	0.467	0.05	0.1	229
A10027204A		102.5	0.003	0.67	0.95	54.7	1	0.7	162.5	0.14	0.38	0.3	0.521	0.69	0.1	284
A10027205A		72.9	<0.002	0.21	0.76	3.4	<1	0.5	370.0	0.13	0.06	1.6	0.081	0.59	0.8	19
A10027206A		107.5	0.003	0.31	2.16	48.3	1	0.7	687.0	0.15	0.83	0.3	0.515	1.04	0.1	249
A10027207A		69.0	<0.002	0.18	0.54	4.1	1	0.4	307.0	0.11	0.10	1.8	0.077	0.54	0.9	25
A10027208A		68.0	0.003	0.41	0.98	20.9	1	0.8	793.0	0.22	0.17	5.3	0.349	0.63	1.1	121
A10027209A		30.9	0.003	1.69	1.24	46.2	1	0.6	184.0	0.14	0.47	0.3	0.513	0.32	0.1	255
A10027210A		80.1	0.003	4.95	1.23	44.5	3	0.6	316.0	0.12	1.36	0.3	0.422	0.82	0.1	230
A10027211A		15.7	0.002	1.18	1.26	47.0	1	0.5	171.0	0.13	0.34	0.3	0.519	0.16	0.1	266
A10027212A		25.7	0.003	2.47	1.16	47.3	2	0.8	141.5	0.11	0.44	0.2	0.463	0.32	0.1	261
A10027213A		4.5	0.003	1.02	0.82	50.1	1	0.7	132.5	0.14	0.35	0.3	0.522	0.06	0.1	268
A10027214A		23.8	0.002	1.80	0.79	42.6	2	0.8	127.0	0.13	0.60	0.3	0.504	0.32	0.1	250
A10027215A		13.4	0.003	1.18	1.21	47.5	1	0.5	142.5	0.14	0.34	0.3	0.527	0.16	0.1	264
A10027216A		58.4	0.002	2.54	1.09	41.8	2	0.7	147.5	0.13	1.03	0.3	0.445	0.62	0.1	244
A10027217A		68.3	0.003	1.71	1.02	39.4	2	0.7	156.0	0.16	0.63	0.6	0.478	0.76	0.2	231
A10027218A		118.0	0.003	6.93	1.24	32.7	4	0.7	137.0	0.09	2.98	0.3	0.268	0.92	0.1	217
A10027219A		126.5	0.003	6.89	1.34	30.5	3	0.6	170.5	0.08	3.99	0.2	0.257	1.00	0.1	216
A10027220A		10.3	0.003	0.80	0.84	49.9	2	0.5	122.5	0.16	0.42	0.3	0.602	0.12	0.1	295
A10027221A		2.9	0.005	0.50	0.86	46.1	2	0.6	113.0	0.17	0.15	0.3	0.567	0.04	0.1	274
A10027222A		41.4	0.004	1.76	1.25	47.6	4	0.8	155.0	0.18	0.54	0.5	0.580	0.42	0.2	265
A10027223A		45.6	0.004	0.77	0.72	51.4	2	0.5	163.0	0.17	0.40	0.3	0.601	0.43	0.1	282
A10027224A		26.0	0.004	0.92	0.88	45.2	2	1.0	122.0	0.14	0.21	0.3	0.542	0.32	0.1	262
A10027225A		26.8	0.004	2.66	1.40	43.8	5	0.8	117.5	0.15	0.79	0.3	0.524	0.34	0.1	265
A10027226A		41.4	0.004	0.66	0.92	40.3	2	0.4	156.5	0.15	0.17	1.0	0.506	0.32	0.3	245
A10027227A		33.3	0.004	2.22	0.93	51.5	3	0.5	120.5	0.17	0.76	0.3	0.658	0.40	0.1	306
A10027228A		36.5	0.003	0.70	0.93	55.1	2	0.4	151.5	0.20	0.28	0.3	0.689	0.46	0.1	313
A10027229A		14.7	0.003	0.51	1.27	45.6	2	0.5	184.0	0.15	0.27	0.3	0.551	0.17	0.1	259
A10027230A		66.8	0.003	2.39	0.58	46.2	3	0.4	159.5	0.09	0.78	0.2	0.375	0.76	0.1	247
A10027231A		47.5	0.002	1.12	0.76	46.4	2	0.4	293.0	0.11	0.31	0.2	0.460	0.57	<0.1	253
A10027232A		21.7	0.002	3.79	1.72	38.6	5	0.7	95.2	0.07	1.69	0.2	0.255	0.24	0.1	228
A10027233A		30.7	0.002	4.04	0.93	34.3	6	0.3	125.5	0.05	3.56	0.2	0.213	0.27	0.1	207
A10027234A		9.2	<0.002	0.94	0.43	32.2	2	0.3	49.2	0.06	0.24	0.2	0.235	0.08	<0.1	172
A10027235A		47.6	<0.002	1.04	0.63	27.1	2	0.3	148.0	0.06	0.23	0.2	0.201	0.39	<0.1	144
A10027236A		39.5	0.002	0.91	0.85	20.9	2	0.3	282.0	0.07	0.20	0.6	0.191	0.32	0.3	118
A10027237A		62.9	0.003	1.13	0.59	45.6	3	0.6	301.0	0.19	1.03	0.4	0.649	0.69	0.1	299
A10027238A		65.4	0.002	1.09	0.93	48.1	2	0.7	307.0	0.20	0.28	0.4	0.710	0.65	0.1	310
A10027239A		44.3	0.003	0.68	1.12	43.3	2	0.7	307.0	0.18	0.21	0.4	0.661	0.43	0.1	302
A10027240A		56.2	0.004	3.81	1.10	32.5	4	1.3	282.0	0.17	10.65	0.6	0.472	0.60	0.2	232

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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

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CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Ag-GRA21	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Ag	Ag	Au	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	1	5	0.001	0.01
A10027201A		4.2	23.2	126	31.2			0.020	
A10027202A		29.2	19.6	65	47.3			0.250	
A10027203A		1.7	19.4	74	22.9			0.011	
A10027204A		13.5	15.1	104	35.9			0.031	
A10027205A		4.0	2.9	43	72.5			0.012	
A10027206A		11.8	20.4	125	48.3			0.045	
A10027207A		1.1	3.1	36	74.2			0.011	
A10027208A		2.8	12.6	82	128.5			0.009	
A10027209A		10.2	19.2	87	34.4			0.034	
A10027210A		32.7	16.3	150	35.6			0.149	
A10027211A		6.7	19.3	107	34.1			0.014	
A10027212A		6.8	19.4	133	34.2			0.027	
A10027213A		2.0	20.9	92	31.4			0.014	
A10027214A		5.7	19.4	83	30.1			0.027	
A10027215A		2.0	19.4	87	28.1			0.020	
A10027216A		11.8	15.3	90	33.8			0.172	
A10027217A		12.6	16.7	83	44.0			0.056	
A10027218A		17.7	8.7	45	37.8			0.596	
A10027219A		16.8	7.4	57	34.7			0.854	
A10027220A		2.8	20.5	103	33.5			0.023	
A10027221A		1.0	20.4	94	28.7			0.008	
A10027222A		11.3	21.9	104	42.1			0.021	
A10027223A		27.2	20.0	69	26.4			0.031	
A10027224A		15.0	19.3	81	34.5			0.008	
A10027225A		10.6	17.5	95	31.2			0.021	
A10027226A		4.2	15.5	75	40.6			0.011	
A10027227A		17.5	20.8	97	42.1			0.039	
A10027228A		28.9	22.9	83	38.6			0.007	
A10027229A		3.3	19.8	96	21.8			0.020	
A10027230A		4.6	14.5	220	35.5			0.290	
A10027231A		7.1	16.5	100	32.4			0.034	
A10027232A		6.9	12.9	4950	28.8			0.660	
A10027233A		4.8	8.0	6350	25.1			1.825	
A10027234A		1.9	10.6	151	20.6			0.040	
A10027235A		2.4	9.4	168	17.8			0.021	
A10027236A		2.8	9.5	142	22.9			0.068	
A10027237A		14.4	16.9	108	43.9			0.710	
A10027238A		10.2	17.8	106	49.1			0.142	
A10027239A		7.3	19.8	90	43.0			0.110	
A10027240A		19.2	12.2	281	50.9			1.520	

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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North Vancouver BC V7J 2C1
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Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
A10027241A		1.40	12.95	6.77	91.5	180	1.45	0.39	3.64	0.11	4.29	40.0	179	20.20	215.0	6.79
A10027242A		2.25	7.85	8.15	64.7	270	2.29	0.82	3.61	0.09	4.44	40.7	267	20.20	350.0	7.17
A10027243A		2.80	7.94	7.07	56.0	230	1.86	1.08	3.87	0.10	4.55	45.4	210	14.15	192.5	7.64
A10027244A		1.63	29.70	6.63	23.8	150	1.32	0.47	6.25	0.15	5.12	38.7	174	11.30	431.0	7.61
A10027245A		2.80	6.64	8.07	60.2	310	2.11	0.31	3.98	0.13	5.64	41.2	244	15.55	346.0	6.52
A10027246A		1.82	>100	6.35	108.0	230	1.87	3.80	3.06	0.13	4.55	33.6	161	12.00	390.0	7.03
A10027247A		2.80	5.33	8.02	64.8	160	1.54	0.10	5.78	0.12	6.58	48.1	236	15.85	154.0	7.92
A10027248A		1.70	6.50	7.61	103.0	350	1.75	0.23	3.40	0.07	10.05	51.7	237	16.20	126.5	7.49
A10027249A		2.61	1.59	8.17	32.8	270	1.58	0.10	5.77	0.11	6.16	51.0	258	13.90	134.0	8.60
A10027250A		1.67	1.56	8.08	21.9	150	0.87	0.06	5.98	0.12	5.26	52.4	236	14.70	137.0	7.92
A10027251A		1.93	2.47	7.62	13.2	160	0.93	0.11	6.16	0.17	5.08	47.7	241	10.70	188.0	8.26
A10027252A		2.15	0.88	8.15	5.1	160	0.94	0.14	7.10	0.24	5.07	41.9	250	7.17	154.5	8.21
A10027253A		1.96	0.76	8.34	12.2	240	1.08	0.17	6.02	0.22	4.61	47.5	267	18.95	135.0	7.97
A10027254A		2.32	0.13	7.25	2.5	920	1.41	0.06	1.90	0.02	45.70	10.3	69	13.90	33.4	2.06
A10027255A		3.47	0.41	7.61	7.7	280	0.82	0.21	4.85	0.08	19.70	37.5	141	14.55	99.8	6.59
A10027256A		2.57	0.27	8.02	10.0	130	0.49	0.07	6.58	0.15	9.74	48.9	162	8.35	137.0	9.73
A10027257A		3.83	0.67	6.73	26.4	370	1.32	0.23	3.55	0.14	8.73	23.9	119	28.90	50.9	4.42
A10027258A		2.17	0.51	8.09	9.2	350	0.89	0.04	6.41	0.12	5.50	44.6	248	18.60	104.5	7.29
A10027259A		2.02	0.64	7.56	13.5	360	1.24	0.33	4.43	0.13	14.45	49.0	108	15.85	116.0	8.18
A10027260A		2.53	0.28	6.94	10.6	280	1.19	0.27	4.03	0.09	13.25	42.5	108	18.80	129.0	7.73
A10027261A		2.59	0.71	7.98	10.0	300	0.87	0.57	5.88	0.14	8.57	51.7	168	8.93	519.0	9.63
A10027262A		2.93	0.52	7.01	8.7	180	1.03	0.17	5.88	0.12	8.13	42.9	152	9.76	119.0	9.13
A10027263A		3.36	4.40	7.30	31.1	140	1.20	0.25	4.86	0.10	7.89	47.8	149	14.00	293.0	9.78
A10027264A		2.65	1.98	5.55	50.2	250	1.04	0.18	2.53	0.05	10.85	19.2	69	17.00	49.1	4.88
A10027265A		2.56	0.24	7.41	11.6	190	0.70	0.07	3.49	0.08	24.20	20.7	108	21.90	50.1	4.12
A10027266A		2.21	0.09	7.45	4.4	280	0.59	0.06	2.96	0.08	20.60	21.5	161	17.10	43.5	4.08
A10027267A		2.65	0.19	8.38	5.9	330	0.67	0.05	6.35	0.10	8.76	48.0	178	11.30	156.5	8.95
A10027268A		1.58	0.05	7.51	13.6	170	0.54	0.04	3.71	0.05	20.30	22.2	140	14.05	25.9	4.51
A10027269A		2.78	0.12	7.65	5.6	240	0.97	0.01	3.78	0.05	23.30	21.7	122	25.20	27.0	5.06
A10027270A		2.72	0.18	7.47	6.3	90	0.33	0.10	6.39	0.13	7.42	47.7	76	5.74	115.0	9.52
A10027271A		2.47	0.19	7.60	12.0	110	1.29	0.02	7.05	0.12	9.03	51.3	147	7.94	146.5	8.90
A10027272A		2.64	0.26	7.99	9.5	110	2.79	0.04	5.60	0.13	9.51	53.4	167	36.20	138.5	7.67
A10027273A		2.72	0.12	7.58	2.6	90	0.51	0.11	7.56	0.13	7.13	45.0	140	7.88	66.2	10.20
A10027274A		2.34	0.28	7.79	5.1	90	1.50	0.12	5.47	0.15	7.54	49.0	157	15.45	137.5	9.11
A10027275A		2.64	0.34	7.80	5.4	50	1.06	0.18	7.75	0.12	8.17	50.3	150	4.70	179.5	9.11
A10027276A		3.42	0.21	7.77	14.6	100	1.28	0.03	7.31	0.17	7.84	48.0	149	8.62	108.5	9.40
A10027277A		2.59	1.30	6.74	23.2	80	1.42	0.20	4.91	0.11	7.99	46.7	161	15.90	211.0	8.85
A10027278A		2.90	0.78	8.10	33.6	140	1.72	0.36	4.90	0.10	7.92	51.4	185	46.40	217.0	8.50
A10027279A		3.23	0.28	7.82	4.6	60	0.63	0.03	7.75	0.14	7.98	45.9	154	6.99	111.5	9.33
A10027280A		3.08	0.34	7.26	3.8	100	0.63	0.11	6.48	0.15	7.76	44.6	136	16.55	140.0	10.25

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
A10027241A		18.20	0.14	1.2	0.057	1.26	2.2	119.5	2.30	677	4.56	1.11	1.2	81.9	180	10.5
A10027242A		19.70	0.16	1.2	0.059	1.57	1.7	156.5	2.41	766	0.58	1.45	1.3	93.5	250	14.2
A10027243A		18.95	0.17	0.9	0.053	1.32	1.7	130.5	2.66	952	0.35	1.11	1.4	109.5	200	11.9
A10027244A		15.30	0.14	1.1	0.062	1.14	2.1	146.5	3.49	1140	1.08	0.78	1.4	94.4	180	10.0
A10027245A		19.75	0.16	1.1	0.065	1.68	2.3	195.0	2.81	840	1.14	1.10	1.5	95.2	230	12.4
A10027246A		17.95	0.34	0.9	0.050	1.66	2.1	168.5	2.29	816	7.99	0.80	1.0	76.1	140	54.6
A10027247A		18.65	0.15	1.0	0.055	1.42	2.7	196.0	3.93	1130	3.07	1.09	1.7	106.0	240	7.7
A10027248A		19.45	0.16	1.0	0.054	1.78	3.9	253.0	2.72	959	0.87	0.80	1.3	99.4	240	9.4
A10027249A		17.65	0.15	0.9	0.063	1.38	2.5	225.0	3.92	1250	0.86	0.95	1.8	110.0	230	6.3
A10027250A		16.95	0.15	1.0	0.062	1.06	1.9	191.0	4.34	1290	0.91	1.70	1.7	112.0	240	6.3
A10027251A		16.50	0.14	1.1	0.057	0.94	1.9	200.0	4.65	1300	0.52	1.13	1.7	105.5	230	9.0
A10027252A		16.90	0.16	1.2	0.055	0.74	1.9	211.0	5.16	1560	1.56	1.05	1.6	94.8	250	5.2
A10027253A		17.65	0.15	0.8	0.054	1.17	1.6	182.5	4.07	1180	0.90	1.60	1.7	102.5	270	8.4
A10027254A		21.60	0.13	3.6	0.021	1.86	22.2	92.9	1.16	275	0.45	2.06	2.8	45.6	580	13.3
A10027255A		18.45	0.15	2.0	0.063	0.92	8.9	117.0	2.50	1070	0.48	1.92	2.8	76.7	370	7.7
A10027256A		19.45	0.17	1.5	0.077	0.54	3.8	100.5	3.49	1450	0.37	1.61	2.9	91.5	360	3.7
A10027257A		15.85	0.13	1.7	0.028	1.66	4.0	124.5	3.92	834	1.42	1.23	1.4	53.7	180	11.2
A10027258A		16.45	0.13	0.9	0.059	1.18	2.2	104.5	4.12	1300	0.24	1.00	1.7	97.4	220	5.7
A10027259A		19.70	0.14	2.0	0.072	1.40	5.8	67.2	3.37	1450	0.83	1.39	2.9	75.7	390	5.4
A10027260A		19.30	0.15	1.8	0.063	1.21	5.7	60.3	3.02	1330	0.94	1.36	2.5	64.7	350	5.5
A10027261A		19.35	0.15	1.7	0.082	1.21	3.2	62.8	3.73	1520	0.66	0.94	2.8	68.8	360	3.7
A10027262A		17.00	0.16	1.5	0.076	1.06	3.1	58.2	3.97	1650	0.56	0.91	2.5	66.5	320	2.8
A10027263A		19.15	0.16	1.6	0.087	1.04	3.0	68.6	3.38	1410	2.27	1.04	2.7	75.4	370	4.8
A10027264A		16.00	0.12	1.5	0.030	1.52	5.1	73.9	1.77	686	4.23	0.58	1.3	38.3	250	4.7
A10027265A		18.00	0.16	2.4	0.036	0.97	10.7	69.2	2.46	655	0.99	3.15	2.1	52.6	480	4.7
A10027266A		20.00	0.14	2.4	0.041	1.03	9.2	94.5	2.14	586	0.29	2.82	2.2	62.7	480	4.9
A10027267A		21.70	0.16	1.7	0.075	0.93	3.5	111.5	3.67	1270	0.45	1.36	2.8	80.0	350	3.6
A10027268A		17.75	0.14	2.3	0.035	0.66	9.1	76.9	2.71	729	0.45	2.87	2.3	64.2	450	2.8
A10027269A		17.80	0.14	2.1	0.025	1.13	10.7	116.0	3.19	926	0.45	1.88	2.1	58.3	430	3.9
A10027270A		17.95	0.16	1.3	0.067	0.50	2.9	69.0	4.33	1620	0.27	1.03	2.4	80.7	300	2.4
A10027271A		17.45	0.16	1.6	0.070	0.64	3.5	116.5	3.44	1430	0.34	0.52	2.5	109.5	310	2.2
A10027272A		19.45	0.19	1.3	0.077	1.04	3.7	122.5	2.95	1650	0.50	1.01	2.6	89.8	320	2.5
A10027273A		17.55	0.15	1.3	0.076	0.36	2.6	71.9	4.82	1790	0.39	1.27	2.4	75.7	320	1.5
A10027274A		19.00	0.17	1.2	0.084	0.58	2.8	120.5	4.09	1580	0.23	1.21	2.6	91.2	290	2.2
A10027275A		17.95	0.14	1.1	0.077	0.33	3.1	52.8	3.61	1570	0.35	1.01	2.5	103.5	320	2.2
A10027276A		18.05	0.15	1.6	0.076	0.48	2.9	108.5	3.90	1760	0.22	0.88	2.4	92.1	320	1.3
A10027277A		18.25	0.18	1.5	0.077	0.58	3.0	110.5	3.04	1460	1.10	1.25	2.5	82.5	350	2.7
A10027278A		21.60	0.18	1.5	0.078	1.30	3.0	156.5	2.91	1230	0.49	1.28	2.8	85.2	390	3.4
A10027279A		17.15	0.14	1.6	0.072	0.33	2.9	89.0	4.29	1620	0.32	1.54	2.6	85.3	320	1.5
A10027280A		18.40	0.15	1.6	0.074	0.54	2.9	115.0	4.51	1600	0.40	1.40	2.5	82.0	330	2.0

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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North Vancouver BC V7J 2C1

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Finalized Date: 16-SEP-2007

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
A10027241A		81.0	0.003	4.55	1.29	33.8	4	0.6	319.0	0.08	10.45	0.3	0.310	0.81	0.2	322
A10027242A		85.2	0.003	3.72	1.13	44.1	4	0.5	337.0	0.09	6.64	0.2	0.403	0.97	0.1	315
A10027243A		74.4	0.003	3.99	1.22	39.5	4	0.4	273.0	0.09	7.01	0.2	0.375	0.77	0.1	397
A10027244A		74.7	0.004	2.71	0.89	35.1	3	0.5	231.0	0.09	18.85	0.3	0.339	0.73	0.1	264
A10027245A		98.3	0.003	3.22	1.10	47.2	3	0.5	298.0	0.10	4.12	0.2	0.427	1.01	0.1	310
A10027246A		104.0	0.011	5.82	1.93	27.5	9	1.2	195.5	0.06	>500	0.2	0.264	1.01	0.1	605
A10027247A		66.4	0.002	2.59	1.25	44.3	2	0.5	291.0	0.12	3.25	0.3	0.471	0.95	0.1	292
A10027248A		101.0	0.002	3.92	1.22	43.9	3	0.5	251.0	0.09	5.38	0.5	0.385	1.13	0.1	335
A10027249A		65.9	0.003	2.89	1.29	46.6	2	0.5	341.0	0.12	1.12	0.3	0.477	0.79	0.1	276
A10027250A		64.8	0.002	2.14	0.98	47.1	2	0.5	277.0	0.12	1.04	0.2	0.441	0.64	0.1	253
A10027251A		51.1	0.004	1.53	1.50	46.2	2	0.4	240.0	0.10	1.19	0.2	0.439	0.47	0.1	247
A10027252A		39.1	0.004	1.07	1.26	46.3	2	0.4	254.0	0.11	0.70	0.2	0.457	0.32	0.1	289
A10027253A		40.9	<0.002	2.00	1.05	45.3	2	0.4	343.0	0.12	0.47	0.2	0.484	0.57	<0.1	275
A10027254A		63.4	<0.002	0.04	1.40	7.5	1	0.7	634.0	0.23	<0.05	5.6	0.181	0.49	1.6	53
A10027255A		44.1	<0.002	0.37	1.40	34.7	2	0.7	407.0	0.20	0.23	1.6	0.531	0.36	0.5	229
A10027256A		27.1	<0.002	0.61	1.72	44.4	2	0.6	303.0	0.18	0.15	0.3	0.684	0.25	0.1	300
A10027257A		83.0	<0.002	1.67	0.82	22.8	1	0.4	370.0	0.11	0.38	1.0	0.225	0.92	0.5	119
A10027258A		62.2	<0.002	0.47	0.85	45.4	1	0.5	278.0	0.11	0.29	0.2	0.462	0.63	<0.1	255
A10027259A		45.1	<0.002	0.63	1.41	36.1	2	0.6	516.0	0.20	0.27	0.7	0.548	0.60	0.3	227
A10027260A		62.0	<0.002	1.65	0.87	35.0	2	0.6	396.0	0.17	0.23	0.7	0.510	0.56	0.2	229
A10027261A		53.7	<0.002	1.49	1.67	52.1	3	0.6	423.0	0.17	0.31	0.3	0.679	0.33	0.1	338
A10027262A		57.4	<0.002	1.12	1.04	47.1	2	0.6	353.0	0.16	0.23	0.2	0.615	0.45	0.1	297
A10027263A		57.0	<0.002	3.92	1.20	45.6	4	0.8	337.0	0.17	2.13	0.3	0.637	0.49	0.1	325
A10027264A		77.4	<0.002	2.41	0.99	16.4	3	0.5	187.5	0.09	1.53	0.9	0.214	0.56	0.3	152
A10027265A		39.0	<0.002	0.62	0.72	15.0	1	0.5	286.0	0.14	0.12	1.3	0.269	0.45	0.3	103
A10027266A		34.4	<0.002	0.16	0.53	15.8	1	0.6	275.0	0.13	0.05	1.1	0.275	0.45	0.3	100
A10027267A		38.7	<0.002	0.49	2.17	52.0	2	0.6	354.0	0.17	<0.05	0.3	0.673	0.42	0.1	320
A10027268A		26.9	<0.002	0.06	0.62	20.0	1	0.6	304.0	0.15	0.05	1.2	0.318	0.31	0.3	130
A10027269A		52.8	<0.002	0.32	0.68	18.8	1	0.5	302.0	0.13	0.05	1.2	0.313	0.62	0.3	139
A10027270A		28.0	<0.002	0.29	0.88	40.7	2	0.8	166.0	0.15	0.11	0.2	0.574	0.22	0.1	266
A10027271A		35.6	<0.002	0.43	2.11	44.9	2	0.5	250.0	0.15	0.06	0.3	0.583	0.34	0.1	278
A10027272A		72.5	<0.002	0.60	0.72	49.1	2	0.6	265.0	0.17	0.37	0.3	0.641	1.08	0.1	309
A10027273A		21.3	<0.002	0.20	0.77	44.4	1	0.5	231.0	0.15	0.08	0.2	0.597	0.22	0.1	304
A10027274A		33.2	<0.002	0.67	0.83	49.6	2	0.7	212.0	0.17	0.27	0.2	0.626	0.48	0.1	310
A10027275A		15.8	<0.002	0.68	0.74	47.1	2	0.5	249.0	0.15	0.26	0.2	0.604	0.15	0.1	289
A10027276A		29.9	<0.002	0.22	1.18	46.7	2	0.5	234.0	0.16	0.14	0.2	0.609	0.36	0.1	297
A10027277A		39.9	<0.002	1.96	0.84	45.2	6	0.6	216.0	0.15	0.97	0.2	0.607	0.52	0.1	284
A10027278A		80.5	<0.002	1.57	0.55	50.0	4	0.6	282.0	0.18	1.08	0.3	0.697	1.14	0.1	336
A10027279A		19.0	<0.002	0.36	1.08	47.1	2	0.7	240.0	0.16	0.14	0.2	0.612	0.19	0.1	299
A10027280A		41.0	<0.002	0.62	0.82	43.4	2	0.6	193.0	0.16	0.26	0.2	0.583	0.45	0.1	281

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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North Vancouver BC V7J 2C1

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CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Ag-GRA21	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Ag	Ag	Au	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	0.1	0.1	2	0.5	1	5	0.001	0.01	
A10027241A		16.3	8.8	64	34.7			3.24	
A10027242A		14.6	10.6	72	35.2			1.295	
A10027243A		13.4	12.1	78	28.5			1.775	
A10027244A		11.7	12.3	90	28.8			2.81	
A10027245A		10.9	13.3	77	30.8			0.387	
A10027246A		18.4	7.8	62	26.5	>1500	1985	>10.0	89.4
A10027247A		15.7	15.4	97	27.4			0.381	
A10027248A		10.9	12.1	54	28.6			1.085	
A10027249A		13.1	15.4	78	27.1			0.112	
A10027250A		12.7	14.6	81	33.6			0.184	
A10027251A		11.8	15.2	90	29.2			0.075	
A10027252A		4.1	15.8	160	30.7			0.065	
A10027253A		7.6	14.6	123	22.3			0.039	
A10027254A		2.9	5.9	40	111.5			0.004	
A10027255A		3.3	15.6	78	54.3			0.016	
A10027256A		2.9	20.8	112	44.4			0.013	
A10027257A		4.4	7.5	122	47.3			0.052	
A10027258A		5.3	15.4	75	25.5			0.014	
A10027259A		4.1	17.5	108	59.0			0.102	
A10027260A		3.9	16.9	91	52.9			0.161	
A10027261A		3.9	21.6	93	47.2			0.021	
A10027262A		2.8	21.3	105	42.0			0.022	
A10027263A		8.0	19.0	93	43.9			1.990	
A10027264A		10.5	8.0	50	46.7			0.522	
A10027265A		4.4	7.5	61	76.9			0.035	
A10027266A		1.7	6.2	81	74.9			0.009	
A10027267A		9.1	21.2	90	48.6			0.013	
A10027268A		2.9	9.5	52	72.7			0.004	
A10027269A		1.9	10.2	52	65.0			0.009	
A10027270A		1.2	18.6	95	35.1			0.007	
A10027271A		5.4	20.7	92	42.1			0.044	
A10027272A		13.7	22.0	94	37.4			0.431	
A10027273A		2.2	20.0	115	39.6			0.007	
A10027274A		8.0	20.9	118	34.5			0.257	
A10027275A		3.5	21.0	94	31.2			0.015	
A10027276A		4.6	20.2	108	41.3			0.022	
A10027277A		31.7	18.1	80	42.1			5.11	
A10027278A		19.7	19.1	87	42.9			1.395	
A10027279A		2.3	20.4	107	41.3			0.020	
A10027280A		6.7	20.4	111	41.5			0.030	

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS TB07090635

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
A10027281A	2.39	0.29	7.89	2.8	80	0.91	0.07	6.42	0.13	8.23	45.8	155	8.85	177.5	9.12
A10027282A	2.27	4.69	6.89	54.7	160	1.59	0.15	3.46	0.21	7.40	48.9	152	33.10	178.0	7.55
A10027283A	2.64	1.35	7.45	7.0	90	1.43	0.04	5.55	0.12	9.06	51.0	160	20.20	199.5	9.51
A10027284A	2.93	0.26	7.90	5.9	90	1.56	0.02	6.85	0.14	8.08	46.2	159	19.85	133.5	9.62
A10027285A	3.56	0.07	0.44	93.9	10	0.05	0.22	0.06	0.05	7.83	10.5	19	0.29	27.8	10.20
A10027286A	2.80	0.21	7.76	4.3	210	0.58	0.04	6.32	0.37	27.20	45.5	198	4.22	137.0	8.54
A10027287A	2.07	0.50	3.00	75.5	150	0.52	0.05	0.68	0.18	10.85	22.4	20	5.74	22.5	4.96
A10027288A	2.12	0.10	7.15	14.1	400	1.23	0.14	2.14	0.06	18.50	6.5	36	14.55	11.3	1.81
A10027289A	1.85	0.24	6.27	20.7	110	1.03	1.20	1.20	0.09	29.30	25.1	7	3.77	35.6	11.75
A10027290A	1.14	0.11	7.17	31.3	150	1.32	<0.01	3.55	0.20	35.90	24.1	8	6.71	18.2	11.35
A10027291A	2.41	0.58	4.65	389.0	120	0.89	0.01	1.57	0.16	20.70	15.8	12	7.02	16.0	8.35
A10027292A	3.08	1.05	6.27	212.0	120	1.29	<0.01	3.65	0.20	32.70	23.5	9	20.50	17.4	11.05
A10027293A	1.25	0.75	8.79	23.8	250	1.48	0.04	1.11	0.14	50.30	16.9	5	10.15	62.3	13.00
A10027294A	2.27	0.13	8.30	25.4	220	1.34	<0.01	3.24	0.10	43.60	17.7	8	17.25	14.2	10.80
A10027295A	2.96	0.69	5.55	30.6	110	0.79	0.04	1.02	0.07	29.60	60.2	9	6.47	43.6	10.85
A10027296A	2.93	0.93	6.54	84.6	150	1.09	<0.01	4.39	0.14	28.40	24.0	5	11.05	9.4	10.65
A10027297A	3.01	0.29	8.12	26.3	140	1.04	<0.01	2.47	0.11	36.10	28.5	5	31.00	9.6	12.10
A10027298A	2.54	0.18	7.28	26.6	250	0.62	0.28	3.21	0.10	24.20	21.7	98	12.90	42.3	4.21
A10027299A	3.50	0.12	8.18	14.7	160	0.42	0.16	5.28	0.10	21.50	27.7	180	21.70	39.2	5.36
A10027300A	2.67	0.32	7.02	26.3	180	0.50	0.11	4.47	0.11	22.10	20.8	140	13.85	38.7	4.74
A10027301A	2.47	0.42	8.74	63.3	230	0.79	0.10	4.07	0.08	27.70	25.5	172	29.30	41.3	4.99
A10027302A	2.22	0.65	6.90	107.5	270	0.59	0.25	2.34	0.07	13.05	18.0	53	13.35	88.3	6.02
A10027303A	2.50	0.41	8.78	61.7	280	1.40	0.04	4.32	1.24	24.90	25.5	187	25.50	52.8	4.63
A10027304A	2.72	0.04	9.10	12.3	60	0.71	<0.01	7.48	0.20	14.90	47.2	128	8.98	84.0	10.70
A10027305A	3.41	0.07	5.60	21	40	0.80	<0.01	10.95	0.10	8.92	32.7	67	8.83	70.9	7.24
A10027306A	3.08	0.08	8.74	29.2	160	1.00	0.01	3.78	0.11	12.70	44.4	119	24.10	142.0	9.67
A10027307A	1.68	0.04	8.92	1.4	90	0.48	0.05	6.62	0.13	9.30	47.2	159	7.04	125.5	10.25
A10027308A	1.40	0.14	8.43	2.0	160	0.78	0.50	4.56	0.08	8.90	53.3	165	13.85	221.0	10.15
A10027309A	2.67	0.31	7.91	4.0	190	1.40	0.54	4.78	0.13	11.00	46.5	143	25.40	300.0	9.15
A10027310A	1.77	0.10	7.51	2.6	80	0.61	0.15	5.74	0.10	7.62	61.7	148	1.64	120.5	9.48
E816601	1.56	0.29	9.03	4.6	20	0.22	<0.01	7.10	0.18	5.96	51.6	261	2.21	154.5	8.86
E816602	1.74	0.27	7.96	1.0	60	0.51	0.37	5.85	0.08	7.61	44.5	74	21.10	120.5	9.03
E816603	1.71	0.13	7.92	4.8	410	1.04	0.23	4.03	0.09	13.20	21.9	100	12.80	115.0	4.57
E816604	1.84	1.07	6.32	50.7	170	1.36	0.20	4.83	0.06	4.34	30.2	167	21.90	79.2	5.39
E816605	1.46	19.60	6.99	141.5	280	2.15	0.14	2.07	0.11	3.60	33.0	207	38.70	276.0	7.39
E816606	1.76	0.68	9.09	6.0	60	0.66	0.27	5.91	0.15	5.23	46.4	284	13.10	254.0	9.29

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

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Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
A10027281A		18.70	0.15	1.7	0.072	0.32	3.0	82.5	3.75	1620	0.43	2.15	2.6	92.4	330	2.9
A10027282A		21.00	0.15	1.4	0.087	1.05	2.9	143.5	2.14	936	2.05	1.83	2.0	85.5	360	7.2
A10027283A		19.80	0.17	1.7	0.076	0.62	3.3	142.0	3.92	1380	0.48	1.14	2.6	87.4	330	2.1
A10027284A		18.95	0.16	1.7	0.078	0.57	3.0	96.2	3.92	1600	0.27	1.05	2.5	89.6	340	1.2
A10027285A		3.41	0.15	0.5	0.075	0.03	3.9	2.1	0.08	176	1.79	0.04	0.4	24.3	50	8.7
A10027286A		18.65	0.19	1.8	0.069	0.66	11.9	62.9	4.85	1460	0.29	0.67	3.2	111.0	520	3.7
A10027287A		12.10	0.12	2.3	0.065	0.84	4.2	46.0	0.54	508	3.11	0.42	2.5	9.0	440	8.2
A10027288A		20.30	0.11	2.3	0.012	1.15	9.0	83.7	0.93	350	0.35	1.41	1.5	20.4	270	16.0
A10027289A		26.20	0.22	6.0	0.174	0.23	11.1	85.4	1.35	1800	2.43	1.16	9.4	5.8	1340	9.6
A10027290A		28.80	0.21	6.2	0.179	0.36	13.6	93.6	1.44	2490	0.89	1.49	10.7	4.0	1410	4.5
A10027291A		16.80	0.15	3.7	0.102	0.65	7.8	61.6	1.07	1220	2.10	0.99	2.9	2.6	970	8.1
A10027292A		24.30	0.21	5.4	0.158	0.51	12.4	64.0	1.73	1850	1.48	1.20	6.5	1.5	1400	4.6
A10027293A		34.80	0.28	8.6	0.147	2.29	18.8	105.0	0.49	939	1.72	1.28	5.3	2.5	1840	7.4
A10027294A		33.20	0.23	5.3	0.226	0.78	17.6	133.0	1.72	2580	0.77	1.32	11.9	2.0	1860	3.3
A10027295A		21.60	0.21	4.7	0.119	1.02	11.0	88.1	0.58	893	1.13	1.06	7.1	2.3	1170	7.1
A10027296A		22.40	0.18	4.8	0.165	0.89	10.3	67.7	2.03	2070	0.76	0.80	8.2	1.2	1280	11.1
A10027297A		32.50	0.21	6.0	0.183	0.82	12.4	127.5	2.23	2850	0.86	0.99	11.4	1.1	1440	5.5
A10027298A		18.35	0.10	2.5	0.032	1.33	11.0	103.5	1.81	861	2.81	0.80	1.8	47.1	440	9.0
A10027299A		20.60	0.14	2.0	0.040	0.98	9.7	93.1	3.27	1330	0.89	0.78	2.1	81.4	470	5.7
A10027300A		17.00	0.12	1.8	0.032	0.94	10.5	70.3	2.61	1380	0.34	0.67	1.5	61.6	370	4.4
A10027301A		21.30	0.13	2.6	0.046	1.48	12.8	123.5	2.37	1210	0.33	0.91	2.2	73.4	470	9.3
A10027302A		17.75	0.13	2.6	0.098	1.26	6.3	92.5	1.80	747	1.62	0.63	2.5	27.5	360	12.7
A10027303A		23.30	0.13	2.7	0.094	1.28	11.4	129.0	2.21	862	0.94	1.10	2.3	75.5	610	11.5
A10027304A		23.40	0.19	2.4	0.096	0.29	5.7	125.5	3.57	1720	0.58	0.69	4.1	83.9	580	1.7
A10027305A		13.60	0.12	1.4	0.062	0.29	3.5	102.5	4.83	2010	0.28	0.56	2.3	54.6	310	0.8
A10027306A		22.70	0.16	2.6	0.091	0.93	4.9	195.5	3.28	1520	0.53	0.99	3.6	76.5	560	1.6
A10027307A		19.75	0.18	1.5	0.072	0.34	3.6	100.5	3.86	1320	0.19	0.99	2.8	92.2	410	1.8
A10027308A		19.85	0.16	1.5	0.065	0.89	3.5	97.1	4.16	1250	0.39	0.81	2.8	104.0	430	1.8
A10027309A		19.50	0.17	1.6	0.078	1.50	4.6	102.5	4.10	1550	0.63	0.65	2.6	94.9	390	2.0
A10027310A		16.55	0.17	1.3	0.066	0.23	3.3	77.0	5.90	1360	0.75	1.32	1.9	274.0	260	2.1
E816601		18.50	0.16	1.1	0.062	0.15	2.2	116.0	4.52	1570	0.18	2.24	1.7	116.5	240	2.0
E816602		20.60	0.17	1.3	0.072	0.50	2.7	73.5	4.10	1230	0.47	1.50	2.3	54.9	310	2.9
E816603		18.30	0.10	2.0	0.039	1.38	6.3	75.2	1.85	779	0.51	1.51	2.1	45.7	290	8.9
E816604		16.75	0.12	0.8	0.041	1.05	1.7	67.3	2.44	831	1.89	0.63	1.2	71.5	200	4.1
E816605		24.90	0.17	0.9	0.049	2.24	1.3	156.0	1.94	471	0.97	0.49	0.9	62.2	190	9.7
E816606		19.55	0.15	1.0	0.064	0.45	1.9	81.7	4.79	1550	0.28	2.28	1.7	103.0	240	3.6

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Page: 4 - C

Total # Pages: 4 (A - D)

Finalized Date: 16-SEP-2007

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
A10027281A		20.6	<0.002	0.45	0.82	47.9	2	0.6	284.0	0.17	0.17	0.2	0.624	0.24	0.1	305
A10027282A		52.2	<0.002	3.56	1.03	43.9	5	0.7	229.0	0.13	4.92	0.2	0.544	0.86	0.1	310
A10027283A		44.5	<0.002	1.53	1.07	49.0	3	0.6	221.0	0.17	0.69	0.3	0.633	0.51	0.1	309
A10027284A		35.2	<0.002	0.60	0.95	48.3	2	0.5	254.0	0.17	0.15	0.3	0.634	0.40	0.1	309
A10027285A		1.7	0.002	5.11	0.98	2.2	3	0.4	9.9	<0.05	0.13	0.7	0.016	0.19	0.3	14
A10027286A		40.7	<0.002	0.41	0.88	44.6	2	0.6	397.0	0.18	0.05	1.0	0.531	0.27	0.2	258
A10027287A		33.7	<0.002	3.04	1.92	16.8	2	0.6	92.4	0.17	<0.05	0.5	0.530	0.26	0.7	66
A10027288A		51.6	<0.002	0.30	1.00	4.3	1	0.5	207.0	0.11	0.06	2.2	0.098	0.47	0.9	28
A10027289A		10.9	<0.002	1.63	1.18	32.4	3	0.8	171.0	0.64	0.27	1.3	1.085	0.11	0.4	19
A10027290A		14.3	0.002	0.84	2.10	33.3	1	1.0	227.0	0.70	<0.05	1.4	1.110	0.19	0.4	14
A10027291A		32.6	<0.002	7.37	3.06	22.1	1	0.4	132.0	0.20	<0.05	1.0	0.314	0.27	0.4	13
A10027292A		26.7	<0.002	>10.0	4.28	32.6	2	1.2	251.0	0.46	<0.05	1.1	0.740	0.29	0.4	25
A10027293A		79.2	<0.002	5.85	1.67	40.3	3	1.6	196.0	0.41	0.11	2.0	0.746	0.49	0.5	20
A10027294A		29.4	<0.002	1.64	5.41	40.5	1	2.4	224.0	0.79	<0.05	1.5	1.260	0.34	0.3	17
A10027295A		40.3	<0.002	8.36	2.89	25.6	1	0.9	125.0	0.50	0.06	1.1	0.724	0.37	0.3	10
A10027296A		37.9	<0.002	8.00	9.53	31.5	1	0.8	266.0	0.57	<0.05	1.0	1.005	0.35	0.3	13
A10027297A		36.5	<0.002	1.35	3.40	40.0	1	0.9	309.0	0.76	0.05	1.3	1.395	0.45	0.3	17
A10027298A		42.1	<0.002	2.04	2.42	13.5	<1	0.6	170.5	0.13	0.08	1.6	0.238	0.49	0.4	84
A10027299A		38.9	<0.002	0.74	1.82	20.4	<1	0.5	279.0	0.14	0.05	1.4	0.297	0.51	0.4	135
A10027300A		44.4	<0.002	0.96	1.99	14.8	<1	0.5	188.5	0.11	0.06	1.4	0.209	0.35	0.4	90
A10027301A		62.5	<0.002	1.77	2.13	18.1	<1	0.9	244.0	0.15	0.06	1.9	0.290	0.64	0.5	113
A10027302A		56.8	<0.002	2.88	4.37	14.9	4	0.9	215.0	0.19	0.07	1.6	0.383	0.50	0.6	94
A10027303A		36.1	<0.002	1.03	1.93	19.6	1	3.3	369.0	0.16	<0.05	1.8	0.317	0.64	0.5	130
A10027304A		15.5	0.003	0.45	1.45	47.3	1	0.9	199.0	0.26	<0.05	0.4	0.936	0.12	0.1	386
A10027305A		16.2	<0.002	1.97	0.78	26.6	<1	0.5	261.0	0.15	<0.05	0.3	0.529	0.14	0.1	234
A10027306A		54.4	0.003	2.70	0.89	45.2	1	0.9	197.0	0.24	<0.05	0.5	0.884	0.50	0.1	380
A10027307A		21.8	<0.002	0.18	0.91	41.5	<1	0.7	272.0	0.18	0.07	0.3	0.656	0.18	0.1	296
A10027308A		25.0	0.002	1.38	0.48	37.6	1	0.9	200.0	0.20	0.29	0.4	0.602	0.54	0.1	279
A10027309A		96.3	0.002	1.55	0.64	39.1	1	0.8	199.0	0.17	0.26	0.5	0.585	0.84	0.2	264
A10027310A		6.5	0.002	0.24	0.76	39.1	<1	0.7	216.0	0.13	0.09	0.3	0.456	0.09	0.1	221
E816601		4.2	<0.002	0.20	1.17	47.1	<1	0.4	201.0	0.12	0.08	0.2	0.467	0.05	0.1	263
E816602		28.9	0.002	0.74	0.56	51.2	1	0.6	127.5	0.15	0.38	0.2	0.627	0.35	0.1	330
E816603		55.5	<0.002	0.32	0.53	19.6	<1	0.6	273.0	0.16	<0.05	1.2	0.301	0.54	0.6	136
E816604		89.2	0.002	2.23	0.79	28.9	2	0.4	164.5	0.08	1.51	<0.2	0.324	0.86	0.1	273
E816605		175.0	<0.002	4.60	1.66	35.6	6	0.3	162.5	0.06	16.25	0.2	0.282	2.02	0.1	624
E816606		26.6	0.002	0.85	0.90	46.4	1	0.4	261.0	0.12	0.74	0.2	0.465	0.34	<0.1	291

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Page: 4 - D

Total # Pages: 4 (A - D)

Finalized Date: 16-SEP-2007

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07090635

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Ag-GRA21	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Ag	Ag	Au	Au
	Units LOR	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.1	2	0.5	1	5	0.001	0.01
A10027281A		3.7	20.9	106	43.4			0.038	
A10027282A		8.8	14.3	116	43.2			2.94	
A10027283A		9.4	21.6	93	50.4			0.115	
A10027284A		4.9	21.7	104	45.0			0.521	
A10027285A		0.2	2.4	57	18.4			0.001	
A10027286A		2.1	18.8	143	46.1			0.020	
A10027287A		3.3	16.2	131	68.5			0.068	
A10027288A		0.8	3.4	42	73.8			0.007	
A10027289A		5.8	36.4	167	183.0			0.088	
A10027290A		10.2	61.6	202	207.0			0.007	
A10027291A		2.4	33.7	79	126.0			0.252	
A10027292A		8.2	49.2	132	175.0			0.057	
A10027293A		8.9	46.8	60	298.0			0.067	
A10027294A		11.3	57.7	154	193.5			0.017	
A10027295A		6.7	44.0	50	156.5			0.191	
A10027296A		5.9	48.5	114	151.0			0.115	
A10027297A		9.5	54.1	235	208.0			0.024	
A10027298A		2.3	8.0	90	84.8			0.039	
A10027299A		1.1	9.5	94	67.8			0.018	
A10027300A		1.2	8.8	84	61.1			0.036	
A10027301A		0.7	8.4	70	88.4			0.046	
A10027302A		1.4	10.1	84	79.9			0.157	
A10027303A		1.2	9.2	597	93.8			0.016	
A10027304A		4.3	29.7	129	76.1			0.035	
A10027305A		4.2	20.1	93	47.8			0.022	
A10027306A		4.7	22.1	120	83.4			0.040	
A10027307A		1.0	21.5	103	46.4			0.025	
A10027308A		5.2	17.7	103	49.6			0.017	
A10027309A		4.6	16.8	107	47.9			0.049	
A10027310A		1.1	15.9	76	39.2			0.015	
E816601		0.9	16.5	96	30.7			0.022	
E816602		6.8	18.2	65	36.4			0.014	
E816603		3.5	9.3	73	62.7			0.016	
E816604		8.0	9.9	64	25.2			0.809	
E816605		7.5	6.8	81	29.9			8.05	
E816606		3.9	14.8	114	30.8			0.163	

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in MS61 method.



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Page: 1
Finalized Date: 22-OCT-2007
Account: HPQ

CERTIFICATE TB07108563

Project: 244500

P.O. No.:

This report is for 33 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 25-SEP-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A
Total # Pages: 2 (A - D)
Finalized Date: 22-OCT-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07108563

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E816701		2.01	0.54	6.3	37.5	190	0.88	0.01	2.18	0.07	27.4	18.8	5	21.7	13.5	9.15
E816702		2.57	0.56	6.22	30.1	190	0.81	0.02	2.84	0.11	29.3	25.7	16	15.4	20.7	9.81
E816703		2.50	0.55	7.36	88.8	320	1.15	0.06	3.63	0.43	35.9	14.8	17	12.75	17.4	10.1
E816704		2.22	0.43	6.44	18.5	130	1.02	0.02	2.96	0.09	29.6	25.7	28	22.5	28.2	12.35
E816705		0.83	0.41	6.98	44.1	120	1.14	0.03	2.79	0.11	36.4	33.8	7	22.2	27	12.4
E816706		1.17	0.3	7.19	13.2	100	0.82	0.02	3.42	0.12	34.3	14.4	28	27	14.6	11.95
E816707		0.74	0.74	6.74	21.9	110	1.16	0.06	3.51	0.16	32.2	18.7	7	8.87	41.2	13.25
E816708		0.84	0.53	6.6	25.2	120	0.96	0.04	3.12	0.1	27.1	35.5	32	7.29	40.5	13.75
E816709		3.14	2.17	6.39	229	150	1.07	0.01	3.51	0.2	26	24.6	5	17.6	15.4	13
E816710		3.23	0.6	4.41	306	170	0.67	0.02	1.79	0.12	19.3	19.2	57	7.44	12.2	10.9
E816711		1.58	0.31	7.04	62.1	180	1.09	0.03	3.62	0.19	35.6	25.5	11	5.58	32.1	11.6
E816712		2.30	0.24	6.86	334	120	1.11	0.48	2.35	0.15	29.5	26.6	31	7.93	30.9	13.3
E816713		1.85	0.27	7.18	22.3	390	1.06	1.43	2.52	0.12	31	28.2	51	12.55	41.5	7.79
E816714		1.83	0.08	7.55	18	470	1.4	0.19	1	0.03	18.25	6.6	65	13.7	8.7	1.48
E816715		1.60	0.42	5.34	102	260	1.05	0.21	1.02	0.04	13.45	16	20	12	12.7	4.7
E816716		2.34	0.48	4.44	130.5	190	0.82	0.3	1.71	0.09	22.9	26.9	68	4.42	16.8	9.06
E816751		2.80	0.2	8.04	24.6	260	0.86	0.25	2.55	0.04	23.3	24.3	121	20.8	25.8	3.76
E816752		1.24	0.8	7.13	82.2	180	0.46	0.8	2.47	0.07	11.15	38.2	182	19.9	91.1	10.1
E816753		2.93	1.92	8.77	112	190	0.62	0.58	0.9	0.04	11.55	63.9	160	16.35	93.8	10.4
E816754		2.18	0.73	6.66	96.9	130	0.67	0.58	2.56	0.06	14.9	35.1	107	11.85	122	11.45
E816755		2.90	0.39	7.86	11.2	360	1.23	0.18	3.57	0.09	17.25	41	96	16.25	92.5	7.06
E816756		1.89	0.43	8.12	4.6	340	1.33	0.15	5.09	0.12	11.85	50.9	160	21.2	140.5	9.09
E816757		3.44	0.34	7.76	15.5	250	0.74	0.4	6.04	0.11	25	46.5	162	4.91	133	8.72
E816758		2.48	0.3	8.28	8.9	390	0.83	0.12	5.61	0.1	29.9	48.1	180	14.25	86.9	8.26
E816759		2.22	2.78	6.51	64.6	250	1.01	0.19	2.73	0.08	7.22	44.3	130	13.35	120.5	7.72
E816760		1.66	0.28	8.68	2.5	20	0.34	0.09	6.47	0.14	9.11	54.9	104	3.55	131.5	9.74
E816761		1.75	0.29	8.28	4	90	0.71	0.27	6.47	0.13	6.43	47.6	156	6.83	174.5	9.14
E816762		3.03	0.52	8.74	2.5	180	1.66	0.34	6.42	0.13	8.43	38.7	109	9.78	229	10.2
E816763		1.02	0.42	8.67	3.3	80	1.25	0.04	7.43	0.19	9.23	53.1	95	6.56	129	10
E816764		2.70	0.26	7.96	6.5	50	0.72	0.03	7.18	0.14	8.32	52.9	115	5.04	85.2	10.25
E816768		1.62	0.31	7.75	3.4	70	0.77	1.85	9.76	0.15	6.84	47.6	156	7.48	107	8.88
E816769		1.11	0.17	7.74	6.6	410	0.92	0.08	1.62	0.04	28.5	5.4	38	16.35	14.4	2.31
E816770		1.28	0.33	8.21	2.3	80	0.35	0.44	7.72	0.14	7.11	52.9	173	4.25	152.5	8.86

Comments: REE's may not be totally soluble in MS61 method.



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Page: 2 - B
Total # Pages: 2 (A - D)
Finalized Date: 22-OCT-2007
Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07108563

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E816701		26	0.23	4.4	0.154	0.9	10.1	88.5	1.64	1785	0.81	0.93	8.7	5.2	1130	5.9
E816702		24	0.22	3.9	0.144	0.82	11.1	91.3	1.53	1695	0.81	0.9	7.8	1.7	1220	6.5
E816703		29.4	0.25	4.6	0.168	0.82	13.4	74.6	1.36	1760	0.93	1.04	10.6	9.3	1630	7.3
E816704		26.6	0.29	3.9	0.187	0.55	10.1	67.7	1.39	2240	1.14	1.16	9.9	2	1380	4.2
E816705		27.6	0.31	6.4	0.177	0.48	13.4	88.2	1.19	2230	1	1.47	11.2	3.9	1470	5.2
E816706		25	0.27	5.6	0.175	0.6	13.1	87.8	1.83	2630	0.72	1.09	9.8	2.5	1410	2.9
E816707		25.1	0.3	5.6	0.215	0.48	11.3	84.4	1.9	2870	0.89	0.91	10	1.7	1360	3.6
E816708		21.2	0.27	4	0.138	0.51	10	63.9	1.6	2400	0.9	1.11	7.8	2.4	1360	4.1
E816709		20.6	0.26	5.3	0.152	0.92	9.6	64.1	1.89	2340	1.54	0.95	5.7	0.7	1340	4
E816710		13.05	0.2	3.5	0.082	0.75	7	53.2	1.29	1575	2.88	0.87	2.9	3.4	860	5.6
E816711		27.1	0.29	5.4	0.164	0.43	13.7	92.8	1.41	2280	1.21	1.37	10	5.6	1330	3.6
E816712		26.5	0.3	5.5	0.163	0.3	10.4	106	1.51	2340	1.23	1.16	9.5	3.5	1350	6.1
E816713		20.3	0.22	3.9	0.109	1.05	13.4	82.1	1.38	1165	1.83	1.19	5.1	41.8	840	12.2
E816714		19.45	0.13	2.2	0.018	2.07	8	90.1	0.61	224	0.47	1.12	1.2	20.9	320	12.6
E816715		16.6	0.19	2.5	0.044	1.36	5.8	90.4	0.67	502	2.55	0.61	1.9	10.7	420	12.3
E816716		14.05	0.24	3.7	0.08	0.98	9.4	59.6	1.12	967	2.53	0.81	4.1	19.2	910	7.7
E816751		19	0.18	2.5	0.027	1.82	10.6	115	1.6	842	0.53	1.07	1.1	60.8	450	5.9
E816752		18.35	0.25	2	0.069	1.35	5.2	107	2.83	1680	0.77	0.63	2.9	61.2	390	7.7
E816753		23.9	0.24	1.9	0.095	3.08	4.4	124.5	1.08	661	0.62	0.84	2.9	59.2	600	9.8
E816754		12.9	0.23	1.8	0.036	0.85	7.4	65.1	1.89	1090	2.03	0.9	1.6	52.9	290	8.5
E816755		18.7	0.21	2.1	0.056	1.37	7.4	59.6	2.41	1060	0.78	1.59	2.8	54.7	470	6.9
E816756		19.9	0.25	1.9	0.072	1.43	4.7	70.6	3.55	1420	0.68	1.02	2.9	79.8	370	4.5
E816757		17	0.26	1.7	0.067	0.86	10.6	43.7	3.77	1585	0.69	1.38	2.9	90.9	500	4.3
E816758		17.2	0.23	1.6	0.059	1.27	13.3	62.5	3.85	1400	0.72	1.37	3.1	111	580	4.1
E816759		17.7	0.22	1.5	0.06	1.67	3.1	83.5	2.09	879	1.79	0.51	1.8	63.8	290	5.6
E816760		19.35	0.26	1.5	0.078	0.18	3.4	66.2	4.01	1605	0.3	1.68	2.8	98.1	360	2.1
E816761		17.3	0.2	1.1	0.064	0.42	2.4	52.9	4.14	1570	0.35	1.87	2.2	78.5	290	4.1
E816762		19.75	0.22	1.5	0.075	1.1	3.1	112.5	3.88	1540	0.32	0.65	2.7	80.1	350	2.6
E816763		18.3	0.22	1.3	0.079	0.45	3.5	59.1	3.76	1775	0.33	1.03	2.7	86.5	360	2.3
E816764		18.25	0.23	1.4	0.07	0.34	3.1	65	3.75	1640	0.33	0.85	2.6	86.9	310	1.2
E816768		16.35	0.19	1.2	0.078	0.55	2.5	39.1	3.63	1800	0.6	0.86	2.2	84.7	270	4.8
E816769		17.55	0.14	3.1	0.021	1.05	12.9	69.7	0.65	309	1.3	3.43	3.6	4.4	530	12.9
E816770		16.85	0.24	1.3	0.065	0.28	2.6	20	3.57	1645	0.71	1.6	2.4	96.8	280	5.1

Comments: REE's may not be totally soluble in MS61 method.



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Page: 2 - C

Total # Pages: 2 (A - D)

Finalized Date: 22-OCT-2007

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07108563

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E816701		41.5	<0.002	1.52	4.04	33.8	2	0.8	235	0.55	<0.05	1.1	1.025	0.42	0.3	24
E816702		27.3	<0.002	3.09	4.92	35.6	2	0.8	219	0.48	<0.05	1	0.997	0.28	0.3	92
E816703		29.9	<0.002	1.07	4.35	29.7	3	1.3	248	0.65	<0.05	1.9	0.905	0.24	0.4	19
E816704		21.3	<0.002	5.07	2.52	36	3	1.3	187.5	0.57	<0.05	1	1.115	0.26	0.4	16
E816705		20.4	<0.002	3.02	2.12	35.7	3	1.1	195.5	0.69	<0.05	1.8	0.949	0.31	0.5	14
E816706		28.1	<0.002	1.45	1.84	36.8	3	1.4	168.5	0.61	<0.05	1.5	1.045	0.43	0.4	22
E816707		22	<0.002	3.66	1.99	34.8	3	1.1	190.5	0.6	0.1	1.4	1.015	0.23	0.3	14
E816708		20.1	<0.002	5.28	1.92	30.9	3	0.9	185.5	0.47	0.05	1.2	1.035	0.21	0.3	19
E816709		47.7	<0.002	>10.0	3.91	31.9	3	0.9	199.5	0.36	<0.05	1.2	0.748	0.46	0.5	47
E816710		31.4	<0.002	9.01	3.24	22.5	2	0.5	113	0.19	<0.05	1.1	0.377	0.28	0.4	25
E816711		15.3	0.002	1.28	2.42	35.2	3	1.6	249	0.61	<0.05	1.5	1.06	0.18	0.4	29
E816712		12.7	<0.002	0.83	1.26	38.6	3	0.9	197.5	0.6	0.12	1.2	1.125	0.14	0.3	23
E816713		41.5	<0.002	1.82	1.81	23	3	0.8	301	0.32	0.19	2.6	0.571	0.39	0.8	59
E816714		81.5	<0.002	0.27	0.98	4.6	1	0.5	175	0.09	<0.05	2.4	0.084	0.69	0.8	28
E816715		63.3	<0.002	3.26	3.09	15.1	2	0.7	124.5	0.13	0.08	1.5	0.244	0.5	0.6	40
E816716		38.1	<0.002	6.84	2.43	26	2	0.7	167.5	0.25	0.07	1	0.595	0.32	0.6	58
E816751		63.6	<0.002	1.44	1.41	15.9	1	0.5	179.5	0.08	0.06	1.9	0.179	0.57	0.4	97
E816752		67.9	0.002	3.41	4.48	41	2	0.7	139.5	0.19	0.25	0.7	0.55	0.6	0.2	240
E816753		85.8	0.002	8.15	12.35	50.2	2	1	121.5	0.2	0.29	0.5	0.522	0.65	0.1	332
E816754		32.3	0.003	9.13	6.6	18.1	2	0.4	141.5	0.14	0.15	2.3	0.274	0.34	0.5	138
E816755		58.6	0.002	1.01	1.19	29.4	2	0.7	457	0.18	0.18	1.1	0.442	0.56	0.4	183
E816756		76.2	0.002	0.79	1.12	47.4	2	0.7	477	0.18	0.22	0.6	0.54	0.71	0.2	275
E816757		42.1	<0.002	0.77	1.79	40	2	0.7	480	0.16	0.17	1.8	0.477	0.33	0.4	244
E816758		46.7	<0.002	0.3	1.56	37.3	2	0.6	572	0.18	0.09	2.3	0.458	0.55	0.5	244
E816759		81.2	0.002	3.9	1.35	38.4	4	0.6	207	0.12	2.31	0.5	0.397	0.58	0.1	286
E816760		6	<0.002	0.3	0.71	44.2	2	0.5	208	0.17	0.22	0.3	0.587	0.07	0.1	292
E816761		16.8	<0.002	0.38	0.71	41.4	2	0.5	167	0.14	0.2	0.2	0.511	0.18	0.1	265
E816762		69.1	0.002	0.74	0.63	45.2	3	0.7	237	0.17	0.59	0.3	0.586	0.63	0.1	304
E816763		20.2	<0.002	0.4	1.1	44	2	1	264	0.17	0.29	0.3	0.64	0.23	0.1	312
E816764		13.8	0.002	0.29	1.32	42.8	2	0.7	206	0.17	0.18	0.2	0.592	0.17	0.1	299
E816768		30.2	<0.002	0.42	0.66	42.7	2	0.6	134	0.14	0.22	0.2	0.495	0.25	0.1	258
E816769		47.7	<0.002	0.22	0.26	4.8	1	0.6	187.5	0.29	0.1	4.8	0.167	0.4	1.4	35
E816770		10.9	0.002	0.41	0.52	48.1	2	0.6	194	0.15	0.18	0.3	0.518	0.1	0.1	274

Comments: REE's may not be totally soluble in MS61 method.



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Page: 2 - D

Total # Pages: 2 (A - D)

Finalized Date: 22-OCT-2007

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07108563

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.001
E816701		6.5	39	106	172.5	0.037
E816702		5.5	45.3	125	143	0.050
E816703		5.7	53	388	172.5	0.056
E816704		8.7	47.5	113	145.5	0.069
E816705		6.6	61.7	127	209	0.051
E816706		5.4	55	188	192	0.023
E816707		9.3	57.5	162	184.5	0.074
E816708		9.4	40.3	128	145	0.053
E816709		10	49.6	155	180	0.065
E816710		3.1	31.1	83	116.5	0.189
E816711		6.1	59.7	183	168.5	0.020
E816712		5.6	50.9	195	186.5	0.034
E816713		4.2	29.4	91	125.5	0.066
E816714		1	3.4	34	76.9	0.009
E816715		2.7	14	50	80.7	0.167
E816716		12	33.7	88	119.5	0.129
E816751		0.7	7.4	51	83.7	0.031
E816752		2.9	16.8	89	66.3	0.088
E816753		3.4	22.9	56	66.4	0.098
E816754		1.3	8.1	65	64.2	0.121
E816755		3.5	17.3	92	69.4	0.066
E816756		3.8	21.4	103	63.3	0.174
E816757		5.4	17.7	97	58.6	0.016
E816758		1.7	16	100	54.5	0.010
E816759		9.4	13.8	77	43	1.000
E816760		0.8	22.5	100	46.6	0.050
E816761		1.1	17.2	96	37.8	0.006
E816762		13.4	20.7	95	54	0.019
E816763		4.5	22.2	121	45.1	0.131
E816764		5.3	20.8	109	45	0.180
E816768		7.4	18.8	90	36.5	0.009
E816769		2.1	6.4	30	106	0.026
E816770		3	19.5	96	47.7	0.004

Comments: REE's may not be totally soluble in MS61 method.



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Page: 1
Finalized Date: 18-NOV-2007
Account: HPQ

CERTIFICATE TB07112253

Project: 244500

P.O. No.:

This report is for 12 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 4-OCT-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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:

Lawrence Ng, Laboratory Manager - Vancouver



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Page: 2 - A

Total # Pages: 2 (A - D)

Finalized Date: 18-NOV-2007

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Project: 244500

CERTIFICATE OF ANALYSIS TB07112253

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
A10026701A	0.77	0.08	7.39	6.7	860	1.18	1.03	1.08	0.1	14.4	1.9	11	9.83	14.7	0.93
A10026702A	0.69	0.02	8.77	4.7	20	0.26	0.04	7.83	0.37	8.6	50.5	188	1.56	147.5	8.26
A10026703A	1.46	0.95	8.14	18.7	130	0.47	0.03	6.55	0.11	6.02	47.6	287	11.5	159.5	9.15
A10026704A	0.69	8.97	7.06	41.1	90	0.97	0.18	4.58	0.19	5.92	28.6	171	7.38	169.5	7.85
A10026705A	0.60	0.24	8.92	29.2	290	0.92	0.3	2.48	0.04	21.1	23.7	143	24.7	19.3	3.55
A10026706A	0.28	8.28	4.99	55	110	1.28	0.19	3.27	0.15	5.75	35.3	157	28.1	154.5	8.98
A10026707A	0.49	0.09	7.25	1.1	690	1.03	0.19	1.27	0.03	49.1	8.1	59	3.46	19.9	1.84
A10026708A	0.95	0.64	6.2	18.2	140	0.52	0.02	2.87	0.1	15.8	38.8	5	26.1	24.5	11.05
A10026709A	2.03	5.57	7.63	89.3	200	1.65	1.74	4.56	0.24	6.24	59.8	165	34	438	8.33
A10026710A	1.61	0.21	8.05	1.1	320	0.79	0.07	2.52	0.03	24.7	17.1	112	15.15	31.8	4.02
A10026711A	0.42	0.89	3.53	5.7	50	0.23	0.57	4.67	0.15	13.4	42.3	77	0.65	126	30
A10026712A	1.26	0.98	2.44	7.7	30	0.14	0.89	4.27	0.2	11.45	74.4	60	0.5	136	32.2

Comments: REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS TB07112253

Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
A10026701A	17.7	0.06	2.3	0.027	2.38	7.3	25.7	0.27	112	0.65	2.35	1.6	9.1	190	8.5
A10026702A	15.95	0.15	1	0.081	0.1	3.2	19.9	3.1	1520	0.82	1.73	2.3	117.5	300	1.4
A10026703A	20.6	0.15	1.2	0.064	0.72	2.2	58.8	4.18	1490	1.97	1.36	1.9	85.4	300	5.7
A10026704A	11	0.12	1.3	0.086	0.61	2.6	84.6	2.65	1280	1.2	1.49	1.9	59	320	7.7
A10026705A	17.75	0.11	2.7	0.029	2.32	9.7	103.5	1.51	712	0.44	1.16	1.1	62.1	490	7.1
A10026706A	14.4	0.12	1	0.082	0.78	2.2	102.5	2.43	887	1.53	0.74	1.8	56	340	6.1
A10026707A	17.05	0.11	3.1	0.023	1.81	25.5	11.1	0.5	241	0.8	2.97	3.3	46.8	480	17.9
A10026708A	18.5	0.16	3	0.099	0.85	6.2	60.2	1.72	1765	0.45	0.93	4.1	2.5	550	4.1
A10026709A	19.25	0.14	1.3	0.085	2.12	2.4	143.5	2.5	886	4.38	1.86	1.7	99.6	290	12.4
A10026710A	19.1	0.09	3.3	0.033	0.62	11.6	59.7	1.73	504	0.35	3.45	2.7	51.45	400	6.4
A10026711A	8.17	0.31	1.5	0.033	0.34	6.2	9.6	1.36	1765	1.01	0.8	2.5	212	190	9.4
A10026712A	6.81	0.38	1.3	0.027	0.19	5.3	10.6	1.1	1535	1.35	0.54	2.2	208	160	10.3

Comments: REE's may not be totally soluble in MS61 method.



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Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
Sample Description	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
A10026701A	107.5	<0.002	0.12	0.74	2.1	1	0.2	452	0.14	0.21	2.4	0.082	0.74	0.9	15
A10026702A	2.6	0.002	0.07	1.28	49.5	2	<0.2	150	0.14	0.05	0.3	0.575	0.02	0.1	306
A10026703A	28.5	0.002	1.75	1.63	53.9	2	<0.2	474	0.12	0.49	0.2	0.538	0.22	0.1	331
A10026704A	29.3	0.002	3.5	1.24	27.7	3	0.3	305	0.11	7.22	0.3	0.573	0.27	0.1	358
A10026705A	69.5	<0.002	1.24	1.57	15.8	1	<0.2	197	0.09	0.1	2.1	0.2	0.6	0.5	109
A10026706A	51.1	0.003	1.64	1.42	30.9	6	0.6	142	0.12	9.94	0.2	0.455	0.72	0.1	261
A10026707A	59.4	<0.002	0.02	0.78	5.4	1	0.2	660	0.25	0.09	6.5	0.175	0.36	1.9	42
A10026708A	33.7	0.003	2.04	3.22	39.9	2	0.4	192	0.25	0.06	0.8	1.25	0.45	0.2	326
A10026709A	135.5	0.002	6.88	3.28	47.8	5	1.1	213	0.12	4.95	0.2	0.425	1.47	0.1	310
A10026710A	26.2	<0.002	0.04	0.89	15.4	1	0.5	361	0.21	<0.05	3	0.251	0.18	0.9	99
A10026711A	14.4	0.002	>10.0	0.94	8.7	3	0.7	211	0.16	0.14	0.9	0.187	0.08	0.2	56
A10026712A	9.1	0.003	>10.0	0.9	7.2	5	0.3	106	0.14	0.21	0.8	0.138	0.08	0.2	44

Comments: REE's may not be totally soluble in MS61 method.



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CERTIFICATE OF ANALYSIS TB07112253

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.1	0.1	2	0.5	0.001
A10026701A		4.4	2	24	72.8	0.003
A10026702A		0.3	20.3	96	24.7	0.005
A10026703A		31.3	18.1	98	40.7	0.072
A10026704A		9.4	10.8	157	46.2	4.82
A10026705A		0.9	7.1	50	92.6	0.044
A10026706A		6.5	13.3	97	31	8.89
A10026707A		0.4	4.9	45	103.5	0.046
A10026708A		3.3	23	146	104.5	0.078
A10026709A		32.6	17.6	50	40.9	0.609
A10026710A		2	8.4	64	90	0.006
A10026711A		0.3	9	55	62.7	0.007
A10026712A		0.2	7.7	59	50.1	0.012

Comments: REE's may not be totally soluble in MS61 method.



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CERTIFICATE TB07129302

Project: 244500

P.O. No.:

This report is for 46 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 6-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
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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 TB07129302

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589501	8.24	0.15	9.28	5.1	250	0.43	0.08	7.14	0.16	8.38	52.2	81	12	24.7	7.32
E589502	8.24	0.07	8.56	1.6	190	0.42	0.09	7.88	0.14	7.35	43.8	60	9.58	18	6.3
E589503	8.33	0.17	8.85	1.3	160	0.26	0.12	6.94	0.13	7.38	49.9	67	13.1	35.9	7.07
E589504	7.43	0.18	8.72	2.2	160	0.34	0.09	8.12	0.39	8.41	45.2	66	7.58	22	6.35
E589505	2.96	0.04	7.06	0.8	520	1.05	0.07	1.01	0.05	10.65	3.2	12	2.21	4.7	1.02
E589506	7.68	0.25	7.97	3.3	190	0.48	0.1	6.73	0.07	8.1	43.2	43	6.64	108.5	7.76
E589507	8.60	0.34	7.03	2.5	130	0.51	0.07	7.17	0.22	7.38	52.2	52	4.16	200	8.14
E589508	8.33	0.11	8.84	3.3	140	0.69	0.05	8.28	0.13	10.1	52.5	92	7.63	87	7.71
E589509	9.13	0.17	7.05	2.6	90	0.34	0.05	7.94	0.13	6.13	52.2	102	3.99	158.5	7.81
E589510	8.57	0.08	8.7	4.5	140	0.37	0.03	7.76	0.15	7.84	50.1	99	6.67	55.3	7.44
E589511	8.13	0.11	7.97	4.1	140	0.57	0.07	8.26	0.14	7.17	48.4	183	6.48	146	7.65
E589512	5.76	0.19	7.62	3	50	0.53	0.05	7.49	0.15	7.68	55.1	63	4.22	196	8.6
E589513	5.60	0.17	7.56	2.9	50	0.35	0.04	6.73	0.15	7.44	55.9	61	2.9	133	8.59
E589514	5.86	0.33	7.72	1.7	50	0.33	0.06	7.16	0.19	7.85	55.8	59	2.56	203	8.66
E589515	5.53	0.25	7.59	2.1	60	0.43	0.11	7.14	0.26	7.88	56	57	3.49	183	8.77
E589516	5.99	0.27	7.74	4.6	60	0.39	0.07	7.05	0.18	7.83	52.7	53	2.35	186	8.32
E589517	5.62	0.39	8.39	4.3	70	0.36	0.08	7.07	0.25	8.75	56.3	50	1.71	300	9.2
E589518	4.98	0.2	8.31	4.4	70	0.36	0.07	6.31	0.24	8.31	55.6	62	2.65	144	8.89
E589519	6.22	0.11	7.34	3.3	40	0.29	0.04	7.2	0.19	7.27	50.1	55	1.94	84.1	8.09
E589520	5.56	0.3	7.86	3.6	50	0.29	0.05	6.42	0.22	7.98	50.5	34	2.17	249	8.33
E589521	6.73	0.17	7.74	4.9	90	0.33	0.05	6.82	0.17	8.08	48.3	27	3.3	139.5	8.49
E589522	5.61	0.21	7.18	6.2	70	0.44	0.09	7.23	0.16	8.49	58.9	14	3.07	220	10.9
E589523	3.09	0.23	7.79	7.5	70	0.68	0.15	6.47	0.1	9.94	70.9	2	6.36	323	14
E589524	3.27	0.22	7.82	5.5	80	0.62	0.17	6.85	0.13	11.1	68.8	4	7.67	303	14.2
E589525	2.90	0.29	6.82	9.3	120	0.63	0.2	5.69	0.11	10.4	58.8	1	10.1	269	12.5
E589526	3.09	0.26	7.11	8.4	100	0.75	0.23	7.44	0.18	9.82	61.1	<1	9.76	228	12.15
E589527	3.04	0.33	7.38	10.8	100	0.6	0.3	6.29	0.11	9.05	68.6	<1	7.23	193	13.3
E589528	2.93	0.49	6.7	19.6	120	0.76	0.25	5.13	0.1	10.15	64	<1	14.75	187	12.35
E589529	3.12	0.87	6.47	40	170	0.71	0.18	3.35	0.12	9.08	82.4	<1	18.65	285	14.35
E589530	3.00	0.3	6.97	14.7	70	0.58	0.21	6.81	0.09	10.45	73.2	<1	5.03	110.5	14.05
E589531 (PULP 839)	0.06	2.28	2.84	6340	300	0.77	74	0.84	0.19	30	16.4	251	1.09	102	2.59
E589532	5.63	0.2	7.17	12.7	70	0.47	0.22	7.11	0.11	11.55	76.1	<1	1.99	104.5	13.75
E589533	5.74	0.14	6.78	6.6	50	0.38	0.16	6.29	0.1	11.45	68.4	<1	1.58	116.5	12.95
E589534	6.31	0.18	6.88	6.9	80	0.35	0.13	6.75	0.1	11.3	66.4	1	1.64	77.7	12.95
E589535	5.18	0.19	6.96	8.8	100	0.46	0.16	6.75	0.08	10.6	68.2	<1	2.35	92.8	13.1
E589536	6.37	0.18	6.9	10.5	80	0.42	0.15	6.37	0.15	10.65	69.9	<1	1.9	108	13.75
E589537	3.70	0.04	7.51	1.6	540	1	0.07	1.04	0.05	10.6	3.7	13	2.3	4.2	1.23
E589538	5.80	0.15	7.48	11.2	50	0.45	0.11	6.86	0.1	11.25	76.8	1	1.47	106.5	14.5
E589539	8.63	0.16	7.01	11.3	40	0.44	0.1	6.77	0.13	11.35	71.2	1	1.28	87.6	14.25
E589540	5.41	0.18	6.67	10.1	60	0.36	0.11	6.36	0.11	10.95	76	1	1.77	95.4	13.6



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589501		20.3	0.21	1.1	0.065	0.86	3	77.5	4	1340	0.48	1.33	3	168.5	310	4.2
E589502		17.05	0.2	0.8	0.053	0.72	2.6	66.2	3.96	1085	0.44	1.34	2.4	125	260	2.8
E589503		18.55	0.23	0.9	0.053	0.73	2.6	77.7	3.85	1245	0.39	1.12	2.5	143	290	3.5
E589504		17	0.21	0.7	0.053	0.8	3	105	3.71	1230	0.39	0.96	2.3	129.5	290	3.9
E589505		17.9	0.06	2	0.011	1.48	5.3	17.6	0.33	163	0.19	3.3	1.4	8.2	180	6.4
E589506		19.45	0.15	1.3	0.06	1.18	3.1	111	3.27	1205	0.35	0.37	2.3	80.9	290	2.5
E589507		16.85	0.14	1	0.067	0.56	2.8	61.6	3.89	1485	0.3	0.44	2.1	88	260	2.1
E589508		19.75	0.15	1.2	0.062	0.65	3.8	71.9	4.35	1345	0.34	0.84	2.4	116.5	310	2
E589509		15.9	0.14	0.9	0.055	0.45	2.2	59.4	4.36	1340	0.26	0.53	1.9	109.5	260	2
E589510		18.7	0.16	0.9	0.055	0.65	2.8	104.5	4.4	1295	0.2	1.11	2.2	131.5	280	2.2
E589511		17.5	0.14	1	0.062	0.7	2.6	77.6	4.25	1360	0.23	0.98	2.2	105	300	2
E589512		17.9	0.14	1.1	0.067	0.28	2.8	64	4.54	1425	0.28	1.02	2.3	95.5	290	1.6
E589513		17.95	0.15	1.1	0.069	0.23	2.7	84.6	4.72	1495	0.31	1.33	2.3	97	300	2
E589514		17.8	0.14	1.2	0.068	0.19	3	75.9	4.69	1535	0.31	1.35	2.3	94.7	320	2.1
E589515		17.55	0.14	1.2	0.074	0.2	2.9	77.6	4.86	1530	0.41	1.5	2.2	93.3	280	2.3
E589516		18.35	0.15	1.1	0.068	0.19	2.9	69.5	4.12	1450	0.25	1.96	2.3	82.9	300	2.1
E589517		20.1	0.16	1.3	0.074	0.15	3.2	61.7	4.37	1600	0.28	2.37	2.5	83.4	330	2.6
E589518		20.2	0.15	1.3	0.082	0.17	3.2	85.9	4.49	1525	0.31	2.26	2.5	85.7	290	2.6
E589519		17.9	0.14	1.1	0.072	0.15	2.7	83.7	4.25	1380	0.26	1.85	2.2	85.3	280	1.7
E589520		18.85	0.15	1.2	0.073	0.16	3	71	4.05	1525	0.27	2.05	2.4	69.4	300	2.5
E589521		18.95	0.14	1.1	0.071	0.25	3	67.4	3.78	1540	0.36	1.64	2.5	60.8	320	2.1
E589522		20.9	0.18	1.2	0.079	0.27	3.2	69.8	3.49	1635	0.41	0.83	2.6	64.3	310	2.3
E589523		25.2	0.21	1.4	0.094	0.37	3.7	99.3	3.85	1815	0.37	0.52	3.2	71.2	380	2.1
E589524		25.2	0.21	1.2	0.093	0.47	4.2	92.5	3.85	1915	0.43	0.68	3.2	68	340	1.8
E589525		22.6	0.19	1.2	0.081	0.58	4	156	3.6	1660	0.39	0.59	2.9	60	320	2.5
E589526		22.7	0.18	1	0.108	0.55	3.8	90.2	3.69	1965	0.49	0.71	2.9	49.8	330	1.8
E589527		24.2	0.2	1.1	0.09	0.44	3.3	108	3.49	1930	0.35	0.72	3	60.6	330	2.3
E589528		22.5	0.18	1	0.083	0.66	3.9	175	3.54	1850	0.37	0.38	2.9	49.8	310	2.5
E589529		22	0.21	1.3	0.091	0.95	3.3	177.5	2.64	1335	1.23	0.37	3	48.8	330	4.9
E589530		23.6	0.2	1.2	0.088	0.33	3.8	94.5	3.28	1960	0.45	0.56	3.3	37.7	360	1.8
E589531 (PULP 839)		8.03	0.11	0.9	0.03	1.39	15.1	6.6	0.36	264	12.3	0.21	5.3	19.3	270	27
E589532		24.6	0.21	1.4	0.099	0.2	4.4	103.5	3.34	1980	0.35	0.9	3.6	36.5	390	2.4
E589533		23.2	0.2	1.5	0.095	0.11	4.2	89.4	3.36	1705	0.33	1.26	3.4	35.8	410	1.7
E589534		23	0.18	1.3	0.089	0.14	4.3	101	3.1	1860	0.3	1.02	3.4	27.4	410	2
E589535		23.2	0.19	1.1	0.089	0.16	3.9	114.5	3.09	1835	0.48	0.92	3.4	25.9	390	2.1
E589536		23.4	0.2	1.3	0.093	0.12	4	102.5	3.48	1895	0.41	1.15	3.4	26.3	410	1.8
E589537		19.2	0.08	2.2	0.009	1.53	5.4	18.3	0.34	187	0.29	3.47	1.4	7.1	210	6.2
E589538		25.4	0.22	1.2	0.098	0.11	4.1	84.9	3.41	1985	0.39	1.47	3.8	25.9	460	1.8
E589539		24	0.21	1.3	0.092	0.1	4.3	82.1	3.28	2000	0.42	1.37	3.5	27.1	410	1.6
E589540		23.3	0.2	1.4	0.093	0.13	4.2	98.6	3.15	1765	0.5	1.26	3.6	24.7	390	1.9



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589501		31.9	<0.002	0.25	1.16	30.2	1	0.6	298	0.17	0.07	0.3	0.542	0.39	0.1	244
E589502		41.3	<0.002	0.11	0.76	25	<1	0.5	276	0.15	0.05	0.2	0.471	0.3	0.1	198
E589503		28.3	<0.002	0.3	0.67	27.2	<1	0.4	232	0.15	0.09	0.2	0.501	0.35	0.1	220
E589504		46.3	<0.002	0.26	0.7	24.8	<1	0.5	226	0.14	0.06	0.2	0.478	0.33	<0.1	204
E589505		52.6	<0.002	0.03	0.18	2.6	1	0.5	421	0.09	<0.05	1.4	0.076	0.29	0.6	18
E589506		55.7	0.002	0.41	0.99	36.5	2	0.6	172.5	0.14	<0.05	0.4	0.627	0.37	0.2	385
E589507		27.5	0.002	0.55	1	43	2	0.5	204	0.12	0.05	0.2	0.62	0.21	0.1	361
E589508		32.7	0.002	0.23	1.09	42.6	2	0.7	258	0.14	<0.05	0.3	0.535	0.29	0.1	254
E589509		26.6	0.003	0.32	1.08	46.7	2	0.4	190.5	0.11	0.06	0.2	0.451	0.2	<0.1	245
E589510		35.7	<0.002	0.16	1.33	37.8	2	0.5	286	0.13	<0.05	0.2	0.506	0.26	<0.1	240
E589511		41.1	0.003	0.47	1.23	41.7	2	0.5	223	0.13	0.07	0.2	0.524	0.3	<0.1	253
E589512		13.9	0.002	0.13	0.94	47.9	2	0.5	215	0.13	0.08	0.2	0.555	0.11	0.1	277
E589513		10	0.002	0.11	0.83	50	2	0.4	216	0.13	0.05	0.2	0.525	0.08	<0.1	278
E589514		7.3	<0.002	0.1	0.86	49.8	2	0.5	240	0.13	0.08	0.2	0.55	0.07	0.1	283
E589515		7.9	0.002	0.14	0.7	49.1	2	0.6	207	0.13	0.05	0.2	0.543	0.08	0.1	281
E589516		8.1	0.002	0.08	1.47	50	2	0.5	308	0.14	0.07	0.2	0.557	0.07	0.1	284
E589517		4.9	0.002	0.16	0.96	54.3	3	0.6	296	0.15	0.08	0.2	0.605	0.05	0.1	313
E589518		6.2	0.002	0.18	0.96	53.1	3	0.5	307	0.15	0.06	0.2	0.602	0.07	0.1	305
E589519		6.3	<0.002	0.04	1.4	47.9	2	0.5	259	0.13	<0.05	0.2	0.507	0.05	<0.1	275
E589520		5.4	<0.002	0.11	0.97	51.1	2	0.5	247	0.14	0.05	0.2	0.594	0.06	0.1	296
E589521		9.6	0.002	0.17	1.17	50.2	2	0.4	227	0.14	<0.05	0.2	0.602	0.1	0.1	321
E589522		11.9	0.003	0.83	1.74	52.5	3	0.7	253	0.15	0.07	0.2	0.971	0.11	0.1	701
E589523		19.8	0.004	0.99	1.99	67.3	4	0.9	235	0.18	0.13	0.3	1.545	0.19	0.1	1230
E589524		26.1	0.005	1.2	1.61	66	3	0.9	180	0.18	0.14	0.3	1.495	0.24	0.1	1110
E589525		35.1	0.004	2.31	1.29	55.6	3	1	155.5	0.17	0.13	0.3	1.305	0.33	0.1	1015
E589526		31.3	0.006	1.68	1.63	59.8	3	0.9	166.5	0.16	0.18	0.2	1.3	0.33	0.1	951
E589527		23.1	0.006	1.68	1.93	63.5	3	0.7	201	0.17	0.25	0.2	1.455	0.2	0.1	1100
E589528		39.4	0.003	2.57	1.76	58	3	0.7	147	0.17	0.09	0.2	1.42	0.36	<0.1	1000
E589529		58.9	0.009	6.98	3.03	58	3	0.9	141.5	0.17	0.13	0.3	1.415	0.57	0.1	966
E589530		17	0.01	2.02	1.85	62.2	3	0.7	216	0.19	0.13	0.3	1.51	0.16	<0.1	982
E589531 (PULP 839)		70.4	0.004	0.99	7.5	5	6	3.8	67.1	1.29	25.2	5.7	0.137	0.31	1.6	32
E589532		8	0.01	0.54	1.95	61.5	3	0.9	259	0.21	0.15	0.3	1.405	0.15	0.1	1020
E589533		2.9	0.007	0.5	1.38	56.3	3	0.9	237	0.2	0.11	0.3	1.25	0.05	0.1	1005
E589534		6	0.009	0.64	1.95	57.7	3	0.8	316	0.2	0.13	0.3	1.435	0.06	0.1	915
E589535		7.4	0.014	1.04	1.84	59.5	3	0.8	330	0.2	0.14	0.3	1.48	0.07	0.1	912
E589536		3.9	0.01	0.56	1.71	58.8	3	0.8	273	0.2	0.14	0.3	1.465	0.05	0.1	904
E589537		57.4	<0.002	0.03	0.16	2.8	2	0.5	444	0.1	<0.05	1.5	0.08	0.3	0.6	20
E589538		2.7	0.008	0.43	1.69	64.8	3	0.7	322	0.21	0.1	0.3	1.61	0.04	0.1	968
E589539		2.6	0.008	0.33	1.74	62.2	3	0.9	288	0.21	0.08	0.3	1.565	0.04	0.1	957
E589540		3.8	0.01	0.48	2.18	58.8	3	1.1	313	0.2	0.09	0.3	1.48	0.04	0.1	910



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E589501		0.9	20	73	39.3	0.011	
E589502		1.6	17.3	74	28.5	0.004	
E589503		0.9	18.4	65	30.5	0.004	
E589504		1.9	17.7	117	25.2	0.005	
E589505		1.8	1.9	37	64.8	0.002	
E589506		3.8	16.4	88	43.5	0.121	
E589507		3	16.7	145	34.7	0.032	
E589508		3	18.4	89	36.7	0.009	
E589509		2.2	16	93	26.6	0.017	
E589510		1.7	17.2	95	31.6	0.006	
E589511		2.9	17.2	99	32.5	0.021	
E589512		2	18.3	112	32.4	0.051	
E589513		5.8	18.3	119	39	0.020	
E589514		1.4	18.7	141	39.8	0.046	
E589515		1.6	18	226	37.6	0.040	
E589516		1.6	18.4	160	33.2	0.039	
E589517		1	20.3	146	40.8	0.082	
E589518		0.8	19.7	175	40.9	0.021	
E589519		1.2	18.1	146	35.8	0.019	
E589520		1	18.9	135	37.2	0.082	
E589521		2.3	19	141	37.8	0.038	
E589522		2.8	19.5	127	37.4	0.297	
E589523		3.3	23.3	118	42	0.237	
E589524		8.5	23.2	121	39.8	0.124	
E589525		4.2	21	121	39.3	0.116	
E589526		11.5	23	151	34.5	0.052	
E589527		10.1	21.1	118	35.4	0.030	
E589528		9.8	20.4	132	29.5	0.119	
E589529		5.9	19.1	154	44.5	0.592	
E589530		5.9	24.3	123	33.5	0.140	
E589531 (PULP 839)		143	7.5	30	11	>10.0	17.15
E589532		2	26	133	45.6	0.065	
E589533		1.1	25.9	124	46.6	0.020	
E589534		1.4	25.5	132	40.5	0.101	
E589535		1.9	25.2	112	38.2	0.052	
E589536		2.6	24.6	145	39.2	0.158	
E589537		1.9	2.2	38	69.7	0.002	
E589538		1.8	26.9	139	42.2	0.014	
E589539		2.3	26.1	142	39.5	0.009	
E589540		2.9	24.8	115	48.9	0.006	



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Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589541	5.89	0.25	6.52	7.8	130	0.46	0.05	6.76	0.15	11.35	52.6	5	1.87	75.6	13.1
E589542	4.95	0.31	6.52	10	150	0.52	0.16	6.35	0.14	12.4	47.8	7	2.78	61.8	12.4
E589543	1.30	0.4	5.47	15.5	210	0.54	0.36	9.46	0.17	9.14	40.9	8	5.49	95.2	10.8
E589544	5.96	0.19	6.57	5.6	600	0.57	0.16	6.54	0.2	10.45	58.7	5	3.73	122.5	13
E589545	5.37	0.16	6.69	5	1140	0.48	0.03	7.13	0.16	9.15	55.5	5	9.1	193.5	12.55
E589546 (PULP 841)	0.07	1.41	2.72	5840	290	0.67	62.3	0.83	0.18	27.7	12.3	245	1.05	90.6	2.46



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Sample Description	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm
	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589541	21	0.12	1.9	0.098	0.21	4.9	75.5	3.02	1770	0.62	1.27	3.2	10.8	450	2.7
E589542	21.3	0.15	2	0.103	0.24	5.3	71.7	3.01	1920	0.61	1.37	3.5	7.8	450	2.3
E589543	17.65	0.14	1.8	0.083	0.33	3.9	59.5	3.7	2100	0.63	1.07	2.7	13.8	330	2.8
E589544	22.5	0.16	1.5	0.1	0.35	4	80.4	3.26	1970	0.37	1.06	3.4	30.8	380	3.1
E589545	21	0.16	1.2	0.093	0.63	3.4	69.5	3.2	1910	0.31	0.75	3	31.7	320	3.9
E589546 (PULP 841)	7.21	1.62	1	0.033	1.26	15.8	5.3	0.35	257	11.4	0.21	4.5	16.6	250	23.8



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Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589541		5.4	0.008	1.14	2.18	47	3	0.8	458	0.24	0.1	0.4	1.545	0.06	0.1	699
E589542		7.5	0.005	1.17	1.79	47.6	3	0.8	500	0.25	0.21	0.4	1.485	0.07	0.1	565
E589543		14.9	0.008	2.11	1.26	39.3	3	0.6	487	0.19	0.34	0.4	1.08	0.1	0.1	593
E589544		11	0.005	0.5	2.15	51.6	2	1	1145	0.2	0.12	0.3	1.47	0.12	0.1	962
E589545		24.1	0.004	0.27	2.15	48.5	2	0.8	1615	0.18	<0.05	0.3	1.41	0.23	0.1	911
E589546 (PULP 841)		59.3	0.003	0.92	6.79	4.7	5	3.6	62.2	1.35	23.2	5.6	0.129	0.26	1.5	29



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Project: 244500

CERTIFICATE OF ANALYSIS TB07129302

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589541		11.9	26.5	123	57.7	0.013	
E589542		6.3	29.6	124	63.2	0.018	
E589543		6.2	24.3	120	55.2	0.024	
E589544		5.8	25	145	45.8	0.007	
E589545		3.2	22.9	133	34.8	0.032	
E589546 (PULP 841)		129	6.8	28	7.8	>10.0	19.10



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CERTIFICATE OF ANALYSIS TB07129302

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.



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Finalized Date: 7-JAN-2008
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CERTIFICATE TB07129327

Project: 244500

P.O. No.:

This report is for 59 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 6-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
4000 TRANS-CANADA HIGHWAY
KAMLOOPS BC V1S 2A9

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 TB07129327

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589546	5.23	0.34	6.73	10.5	850	0.78	0.05	6.9	0.12	9.16	65.2	3	7.55	242	13.6
E589547	4.48	0.11	7.29	17.1	840	1.36	0.13	1.94	0.14	23.7	9.8	11	9.98	28.7	1.81
E589548	3.98	0.1	7.17	8.9	690	1.46	0.19	2.31	0.03	25.6	5.9	11	10.7	10.9	1.58
E589549	5.43	0.11	7.71	15.4	740	1.7	0.14	2.08	0.03	25.8	6.1	16	12.25	13.4	1.38
E589550	4.51	0.13	7.41	14	800	1.63	0.16	1.35	0.02	28.5	5.7	13	9.34	9.6	1.09
E589551	4.64	0.1	7.08	5	1010	1.51	0.1	1.82	<0.02	26.3	5.2	12	10.1	10.4	1.23
E589552	4.63	0.07	7.14	6.8	820	1.52	0.07	1.8	0.02	24.5	4.9	12	9.7	10.2	1.25
E589553	5.35	0.08	7.58	10.1	690	1.56	0.06	2.22	0.02	25.1	4.8	15	13.25	10.1	1.34
E589554	5.41	0.08	7.6	10.8	680	1.55	0.1	1.81	0.03	23.2	5.5	16	12.8	10	1.27
E589555	5.90	0.1	7.49	18	580	1.56	0.2	1.98	0.03	27.4	5.7	12	11.65	10.4	1.38
E589556	5.22	0.09	7.21	25.7	710	1.54	0.27	2.14	0.03	26.5	6.4	14	11	11.8	1.81
E589557	2.46	0.18	6.3	280	110	1.2	0.32	2.58	0.1	14.45	31.6	11	10.45	46.5	8.15
E589558	3.07	0.18	6.98	216	80	1.21	0.12	3.85	0.07	12.85	38.1	9	11.75	40.2	8.8
E589559	2.86	0.23	6.57	175	120	1.1	0.11	5.41	0.05	11.75	41.5	9	12.5	64.1	9.14
E589560	2.79	0.57	6.49	188	200	1.12	0.05	3.88	0.14	9.3	45.8	1	12.5	219	12.6
E589561	2.22	0.41	6.5	167.5	210	1.01	0.03	3.16	0.1	10.25	45.9	26	30.3	161.5	11
E589562	3.24	0.4	5.76	70.5	180	0.91	0.12	8.36	0.25	5.43	37.2	30	16.05	125.5	6.96
E589563	0.08	1.94	2.73	6030	290	0.73	62.8	0.8	0.15	27.5	11.7	217	1.02	87.3	2.47
E589564	6.12	0.28	7.59	17.5	190	0.87	0.26	6.65	0.21	6.5	49.5	83	16.55	183	8.75
E589565	4.81	0.3	7.19	10.4	380	0.44	0.26	6.14	0.2	6.71	48	77	15.9	205	8.4
E589566	4.66	0.49	7.38	12.8	100	0.22	0.21	6.89	0.29	7.07	52.2	69	3.74	276	8.73
E589567	5.74	0.28	7.02	12.5	70	0.29	0.19	6.61	0.16	6.82	47.8	63	3.16	124	8.43
E589568	5.33	0.29	7.62	13.4	60	0.25	0.18	7.03	0.21	6.93	49.6	47	3.37	141.5	8.76
E589569	5.79	0.41	7.53	13.1	110	0.59	0.32	6.57	0.14	6.92	49.8	48	4.61	199.5	8.68
E589570	6.15	0.4	7.28	9	130	0.66	0.36	6.98	0.21	6.45	48.2	54	6.28	215	8.82
E589571	5.32	0.37	7.21	6.5	100	0.72	0.41	7.12	0.16	6.1	45.7	87	15.9	144.5	8.24
E589572	1.21	0.08	7.09	1.7	670	1.16	0.17	1.48	0.05	12.3	4.8	29	2.33	5.6	1.27
E589573	5.62	0.28	7.21	7.4	100	0.88	0.29	7.87	0.12	6.49	40.6	176	12.35	78.6	7.03
E589574	4.49	0.25	7.28	8	130	0.95	0.2	7.46	0.12	7.99	36.9	153	12.7	70.8	7.11
E589575	5.09	0.28	6.55	12.4	130	0.9	0.09	4.38	0.07	12.75	25.4	76	23.4	62.1	4.8
E589576	2.87	0.53	7.05	18.4	170	1.11	0.04	4.69	0.12	14.3	28.8	96	29.5	78.2	5.69
E589577	4.25	0.63	5.25	39.9	180	0.97	0.09	4.89	0.06	11.75	18.6	54	21.4	42.3	4.04
E589578	4.47	0.6	6.02	134	230	1.08	0.18	1.51	0.06	13.75	28.5	58	20.7	77	5.35
E589579	3.85	0.92	6.08	27.2	290	0.92	0.42	5.73	0.17	7.67	52.7	3	18.95	235	11.9
E589580	4.19	0.88	6.12	10.5	540	0.8	0.81	5.96	0.19	9.08	52.9	1	15.55	288	11.75
E589581	3.25	0.15	6.02	6.8	1700	2.84	0.29	5.75	0.08	236	31.8	332	8.72	50.4	4.75
E589582	3.31	0.86	6.41	24.7	450	1.05	0.49	5.9	0.16	12.45	56.9	9	15.4	315	11.65
E589583	6.33	0.75	6.29	17.6	390	0.7	0.33	6.37	0.16	7.84	50.8	20	11	337	11.15
E589584	2.71	1.31	6.42	23.4	200	1.02	0.12	5.52	0.14	9.01	62	23	17.05	344	11.05
E589585	3.50	1.32	5.72	36.9	180	1.01	0.06	6.01	0.15	7.35	54	3	9.98	293	11.9



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CERTIFICATE OF ANALYSIS TB07129327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589546		22.3	0.27	1.8	0.082	0.71	3.5	72.9	2.75	1925	1.57	0.44	3.2	38.6	350	7.4
E589547		20.5	0.19	2.8	0.016	1.84	10.6	78.8	0.54	264	0.98	2.16	1.8	10.8	260	22.1
E589548		20.3	0.22	2.9	0.01	1.45	11.6	63.1	0.58	236	0.45	2.43	1.6	10.1	260	22.2
E589549		21.8	0.21	3.3	0.012	1.8	11.8	62	0.49	229	0.48	2.46	1.8	10.4	270	19.9
E589550		21	0.21	3	0.012	1.84	13	47.9	0.28	139	0.43	2.4	1.6	10	280	16
E589551		20.4	0.25	3.1	0.011	1.59	12	53.9	0.44	184	0.28	2.61	1.7	8.3	260	14.5
E589552		20.3	0.23	3	0.011	1.76	11.2	48.2	0.43	184	0.33	2.51	1.7	8.6	270	12.3
E589553		21.3	0.25	2.8	0.011	1.65	11.5	55.8	0.49	226	0.49	2.6	1.8	8.4	260	20.9
E589554		21.3	0.22	3	0.013	1.85	10.4	66.6	0.45	190	1	2.35	1.7	9.6	270	17.9
E589555		20.6	0.25	3	0.011	1.7	12.7	69	0.49	204	0.34	2.27	1.5	8.9	260	21.3
E589556		20.5	0.27	3	0.013	1.85	12.3	87.7	0.77	305	0.5	1.82	1.5	9.7	270	12.4
E589557		17.15	0.26	2.3	0.058	1.39	6.3	76.3	1.11	986	1.46	1.14	2.6	14.1	440	11.8
E589558		19.75	0.25	2.7	0.056	1.98	5.3	111.5	1.59	1165	0.88	0.74	2.6	13.3	430	9.8
E589559		18.95	0.24	2.4	0.054	1.61	5.1	108	2.1	1180	0.82	0.81	2.7	18.1	390	8.2
E589560		17.65	0.29	2.1	0.075	1.97	3.7	77	2.34	1580	0.54	0.91	2.9	36.5	390	6.9
E589561		18.85	0.29	1.6	0.068	1.23	4.1	112.5	2.27	1215	0.46	1.01	2.4	41.4	350	5.5
E589562		13	0.21	1.1	0.047	0.78	2	90.8	3.92	1500	13.9	0.9	1.4	52.3	210	3.3
E589563		7.47	0.15	0.9	0.026	1.29	13.1	5.5	0.34	247	10.9	0.21	5.7	16.4	220	22.4
E589564		15.95	0.22	1.2	0.063	0.67	2.4	102	4.68	1460	0.42	1.06	2.2	93.2	290	3.4
E589565		15.5	0.24	1.2	0.055	0.53	2.4	106.5	4.94	1345	0.56	1.45	2.2	88.8	290	2.6
E589566		15.95	0.23	1.2	0.094	0.22	2.6	70.1	4.9	1495	0.24	1.78	2.2	91.7	280	2.8
E589567		15.4	0.23	1.2	0.059	0.22	2.5	79.1	4.61	1440	0.57	1.72	2.1	81.9	270	3.6
E589568		16.65	0.23	1.1	0.075	0.27	2.5	85.3	4.86	1510	0.63	1.76	2.2	81.4	290	4
E589569		16.55	0.25	1.3	0.058	0.4	2.5	104	4.69	1460	0.53	1.92	2.2	80.2	290	4.5
E589570		15.85	0.25	1.1	0.066	0.56	2.3	85.9	4.49	1480	0.28	1.54	2.1	76	240	3.4
E589571		15.5	0.22	1.1	0.058	0.6	2.2	89.3	4.18	1375	0.35	1.16	2	77.5	270	2.7
E589572		18.7	0.21	2.2	0.01	1.51	6.1	20.7	0.42	208	0.25	3.5	1.3	11.5	240	6.5
E589573		15.9	0.15	0.8	0.055	0.52	2.4	84.9	4.15	1300	0.19	1.2	2.1	88.7	240	3.5
E589574		16.05	0.12	1.2	0.056	0.67	3.3	92.5	3.7	1265	0.58	1.23	2.2	81.7	290	4
E589575		16.25	0.15	1.9	0.038	0.8	6.1	89.8	1.97	779	0.41	1.54	2.5	41.3	310	5.3
E589576		17.7	0.17	2	0.048	1.08	6.4	120.5	2.28	885	0.43	1.17	2.8	52.2	370	5.7
E589577		14.15	0.16	1.6	0.032	1.07	5.4	102.5	2.23	735	2.03	0.63	1.6	32.2	240	5
E589578		16.5	0.16	1.8	0.043	1.59	6	113.5	1.1	391	1.52	0.79	1.8	43.6	310	6
E589579		18.8	0.2	1.1	0.073	0.65	3	83.7	3.72	1685	2	1	2.5	59.1	290	4.1
E589580		19.6	0.18	1.2	0.084	0.69	4.2	78.7	3.53	1645	0.94	1.5	2.7	54.3	320	7.5
E589581		17.95	0.35	6.3	0.046	2.97	119.5	223	4.89	887	0.25	2.33	11	99.5	2940	25.2
E589582		20.3	0.19	1.2	0.08	0.68	5.9	77.7	3.28	1530	1.36	1.45	3	65.3	330	6.1
E589583		18.85	0.17	1.2	0.076	0.5	3.1	68.9	3.4	1520	0.56	1.09	2.4	73.5	290	3.5
E589584		19.15	0.19	1.5	0.074	0.6	3.6	84.2	2.82	1340	0.62	1.38	2.6	73.4	310	4.5
E589585		18.2	0.18	1.3	0.079	0.42	2.8	74.8	3.18	1570	0.47	1.1	2.5	52	280	3.2



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CERTIFICATE OF ANALYSIS TB07129327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589546		22.3	0.003	0.61	1.95	56.1	4	0.7	564	0.18	<0.05	0.4	1.465	0.2	0.1	1030
E589547		68.5	<0.002	0.24	0.83	7.8	2	0.5	285	0.11	<0.05	4.1	0.182	0.51	1.3	90
E589548		49.7	<0.002	0.33	0.69	4	2	0.5	331	0.1	<0.05	4.8	0.101	0.42	1.5	26
E589549		59.5	<0.002	0.21	0.76	4.7	2	0.6	337	0.11	<0.05	5.2	0.116	0.48	1.6	31
E589550		61.3	<0.002	0.32	0.63	4.3	2	0.5	302	0.09	<0.05	5.1	0.101	0.44	1.6	27
E589551		53.1	<0.002	0.11	0.53	4	2	0.5	346	0.1	<0.05	4.7	0.102	0.44	1.4	26
E589552		59.2	<0.002	0.13	0.43	4	2	0.5	311	0.1	<0.05	4.6	0.099	0.48	1.4	26
E589553		50.6	<0.002	0.1	0.67	4	2	0.5	347	0.11	<0.05	4.3	0.109	0.45	1.4	26
E589554		59.8	<0.002	0.12	0.76	4.2	2	0.5	286	0.11	<0.05	4.5	0.102	0.5	1.5	27
E589555		58.4	<0.002	0.4	0.86	4.2	2	0.6	275	0.09	<0.05	4.9	0.092	0.46	1.5	27
E589556		72.1	<0.002	0.62	0.92	4.8	2	0.5	226	0.09	<0.05	4.9	0.099	0.55	1.6	31
E589557		50.6	<0.002	5.92	2.9	30.3	3	0.4	185	0.16	<0.05	1	0.651	0.42	0.6	177
E589558		62	<0.002	6.82	3.63	28.8	3	0.5	212	0.17	<0.05	1.1	0.625	0.52	0.6	180
E589559		62.1	<0.002	6.78	4.02	26.4	4	0.5	247	0.18	<0.05	1	0.627	0.53	0.8	263
E589560		37.2	0.003	6.88	4.12	46.5	5	0.6	301	0.17	0.07	0.5	1.21	0.38	0.3	882
E589561		55.8	0.004	5.55	3.93	48.7	4	0.5	215	0.13	0.11	0.5	0.982	0.62	0.2	728
E589562		35	0.003	4.06	2.29	34.3	3	0.3	435	0.08	0.13	0.2	0.35	0.32	0.2	270
E589563		56.7	0.003	0.94	6.78	4.7	6	3.3	57.7	1.2	21.9	5.5	0.121	0.26	1.2	28
E589564		28.8	<0.002	1.09	2.25	45	3	0.4	384	0.13	0.18	0.2	0.527	0.29	0.1	286
E589565		24.2	0.002	0.53	1.98	45.1	3	0.4	442	0.12	0.12	0.3	0.516	0.28	0.1	275
E589566		7.9	<0.002	0.31	2.81	45.4	3	0.4	325	0.13	0.1	0.2	0.516	0.08	<0.1	283
E589567		7.5	<0.002	0.3	2.37	44.1	2	0.5	290	0.12	0.1	0.2	0.52	0.08	0.1	275
E589568		10.7	0.002	0.29	2.02	46.5	3	0.4	289	0.12	0.07	0.2	0.553	0.09	<0.1	294
E589569		16.4	0.002	0.77	1.64	45.9	3	0.5	263	0.12	0.14	0.2	0.543	0.15	0.1	290
E589570		24.3	<0.002	0.84	1.71	43.9	3	0.4	240	0.12	0.14	0.2	0.523	0.21	<0.1	271
E589571		31.3	<0.002	1.12	1.17	42.8	3	0.3	254	0.12	0.13	0.2	0.505	0.35	<0.1	275
E589572		48.5	<0.002	0.13	0.18	3.4	2	0.4	420	0.09	<0.05	1.7	0.078	0.28	0.5	23
E589573		29.9	<0.002	0.59	1.76	49	2	0.4	327	0.13	0.09	0.2	0.513	0.26	<0.1	265
E589574		34.4	<0.002	0.59	1.21	45.2	1	0.5	299	0.14	0.07	0.3	0.545	0.3	0.1	268
E589575		45.4	<0.002	1.29	1.1	22.6	2	0.5	206	0.17	0.07	0.9	0.413	0.4	0.4	175
E589576		59.8	<0.002	1.62	1.17	26.7	2	0.8	222	0.19	0.08	0.9	0.473	0.53	0.4	217
E589577		65.2	<0.002	1.64	1.56	17.2	2	0.4	211	0.12	0.23	0.8	0.243	0.53	0.5	136
E589578		90.4	<0.002	3.61	2.61	24.7	3	0.5	149.5	0.13	0.21	1	0.339	0.76	0.5	281
E589579		42.2	<0.002	2.04	1.98	53.1	3	0.7	380	0.15	0.21	0.2	1.265	0.53	0.1	1015
E589580		41.3	<0.002	2.27	1.85	53.3	3	0.7	643	0.17	0.23	0.3	1.27	0.48	0.2	977
E589581		109	<0.002	0.05	0.44	16.7	2	1.2	1450	0.48	<0.05	25.2	0.448	0.67	4.9	115
E589582		41	<0.002	2.08	2	54.5	3	0.7	648	0.17	0.25	0.7	1.245	0.44	0.2	976
E589583		28.9	<0.002	1.66	2.1	48.7	2	0.7	633	0.16	0.23	0.3	1.11	0.33	0.1	948
E589584		39.5	<0.002	2.85	1.38	49	3	0.7	320	0.16	0.14	0.3	1.085	0.47	0.2	847
E589585		24	<0.002	3.12	2.12	49.6	3	0.6	311	0.16	0.17	0.2	1.255	0.31	0.1	957



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E589546		6.9	21	151	55.2	0.021	
E589547		1.2	4.1	117	87.9	0.014	
E589548		0.6	3.1	48	89.8	0.003	
E589549		0.7	3.4	47	99.4	0.003	
E589550		0.9	3.2	36	97.8	0.029	
E589551		0.9	3	37	94.3	0.008	
E589552		1	3	37	90.7	0.004	
E589553		0.5	3	50	90.4	0.004	
E589554		0.7	3.1	44	93.7	0.014	
E589555		0.5	3.2	49	94.4	0.012	
E589556		1.2	3.7	44	92.5	0.012	
E589557		3.3	17.3	109	74.4	0.102	
E589558		2.9	17.9	84	84.1	0.076	
E589559		3.8	17.1	72	73.2	0.064	
E589560		16.9	18	128	62	0.242	
E589561		14.2	16.7	121	48.8	0.291	
E589562		3.3	13.9	173	31.5	0.150	
E589563		124.5	6.1	29	7.6	>10.0	NSS
E589564		4.4	15.3	161	34.6	0.064	
E589565		1	15.9	141	36.4	0.042	
E589566		2	16.6	314	32.3	0.087	
E589567		1.9	16.3	142	34.8	0.075	
E589568		1.8	16.8	184	30.8	0.018	
E589569		1.9	16.2	118	37.9	0.010	
E589570		3.8	15.5	160	28.7	0.013	
E589571		2.5	15	139	28.7	0.018	
E589572		2	2.2	39	69.6	0.001	
E589573		5.5	16.9	72	26.3	0.012	
E589574		4.5	16.6	83	37.4	0.016	
E589575		5.2	12	62	64.4	0.062	
E589576		6	13.8	94	70	0.092	
E589577		2.4	10	48	55.9	0.727	
E589578		4	9.7	48	65	0.142	
E589579		7.5	18.8	120	35.8	0.064	
E589580		4.7	20.1	119	36.7	0.045	
E589581		0.5	23.4	93	249	0.010	
E589582		6.3	20.6	111	40.7	0.065	
E589583		6.3	18.5	128	37	0.087	
E589584		8.3	17	98	52.1	0.133	
E589585		10.6	18.3	123	40.5	4.51	



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
E589586		5.11	0.99	6.03	15.6	320	0.8	0.11	6.62	0.16	8.05	52.9	1	10.25	270	11.9
E589587		4.96	0.63	6.05	10.2	120	0.44	0.14	6.31	0.17	10.85	55.9	1	6.02	246	11.8
E589588		5.03	0.75	6.34	13.7	110	0.51	0.16	6.64	0.21	8.43	57.8	3	5.34	300	12.45
E589589		2.90	0.86	6.26	30.8	270	0.97	0.22	5.83	0.15	11.7	49.8	<1	14.65	231	11.7
E589590		5.98	1.52	6.24	102	370	1.13	0.14	5.66	0.15	9.07	57	<1	10.6	217	11.85
E589591		4.34	1.85	6.13	113	200	1.51	0.03	4.12	0.12	8.18	52	4	18.75	179.5	10.75
E589592		5.09	1.46	6.41	97.3	280	1.55	0.01	5.13	0.16	8.94	70.1	<1	20.7	240	12.9
E589593		3.86	1.66	6.23	104	270	1.32	0.04	4.8	0.1	11.1	38.4	14	19.55	168.5	8.69
E589594		4.20	0.25	6.86	76.6	310	1.22	0.06	3.8	0.05	20.4	16.5	77	26.9	33.3	3.26
E589595		5.22	0.35	6.11	55.1	300	1.41	0.05	4.56	0.06	20.8	17	118	23.8	33.8	3.26
E589596		4.36	0.71	6.5	79.4	280	1.73	0.07	3.45	0.05	22.3	21.2	111	23.6	35.4	3.8
E589597		3.98	0.77	5.94	70.7	230	1.7	0.05	3.97	0.08	18.15	17.5	67	23.9	35	3.86
E589598		6.12	0.35	4.97	30	260	1.84	0.04	10.15	0.06	11.4	2.5	4	20.7	3.8	0.77
E589599		5.23	0.12	7.25	41.9	360	1.66	0.11	1.7	0.03	15.95	2.9	7	20.3	7	1.03
E589600		1.40	0.08	6.76	2.2	630	1.14	0.18	1.06	0.03	12.85	3.7	10	2.65	5.7	1.03
E589601		5.44	0.1	7.1	37.8	380	1.7	0.1	1.62	0.04	17.85	3.1	5	19.25	6.2	1.04
E589602		5.28	0.11	7.6	54.8	360	1.76	0.09	2.17	0.08	17.5	3	11	19.75	8.8	1.06
E589603		5.51	0.12	6.6	75.8	290	1.45	0.11	1.9	0.03	15.15	2.9	7	23.4	7.1	0.97
E589604		5.29	0.15	7.06	135	260	1.43	0.11	1.62	0.02	15.85	2.6	7	19.05	8.1	1



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Method Analyte Units LOR	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm
Sample Description	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589586	18.95	0.18	1	0.086	0.38	3.1	71.4	3.36	1650	0.63	0.94	2.7	47.6	310	2.4
E589587	19.65	0.18	0.9	0.085	0.28	5.1	74.1	3.16	1595	1.34	1.17	2.7	44.3	610	2.5
E589588	20.2	0.18	1.1	0.089	0.28	3.4	83.8	3.45	1765	0.46	1.2	2.9	45.5	330	3.6
E589589	20.2	0.19	2	0.083	0.46	4.6	103.5	2.97	1560	1	1.03	3.5	36.3	560	3.5
E589590	19.85	0.18	1.2	0.084	0.63	3.5	91.9	2.97	1420	0.41	0.93	2.9	39.3	400	3.8
E589591	18.65	0.18	1.5	0.077	0.87	3.5	111.5	2.63	1335	0.43	0.99	2.6	37	280	5.8
E589592	20.6	0.2	1.2	0.086	1.02	3.6	117.5	3.08	1685	0.43	0.91	3.1	45.3	340	5.1
E589593	17.75	0.17	1.8	0.061	1.1	5	96.8	2.2	1065	0.66	1.07	2.6	37.1	310	5.8
E589594	17.5	0.16	2.3	0.03	1.31	9.7	103	1.44	522	0.41	1.95	2	38.1	380	7.1
E589595	17.35	0.17	2	0.027	1.49	10.2	107.5	1.73	689	1.22	1.07	1.8	51.8	360	5.6
E589596	17.05	0.16	2.1	0.036	1.72	10.1	97.6	1.45	570	0.87	0.87	1.9	57.1	420	7.3
E589597	15.35	0.15	2.1	0.034	1.56	8.3	88.8	1.51	702	0.91	0.6	2.3	37.7	370	5.8
E589598	14.25	0.14	1.3	0.007	1.69	6.2	58.9	0.52	609	0.52	0.41	1	2.6	110	6.4
E589599	20.5	0.12	2.2	0.009	1.97	7.7	74.3	0.4	162	0.27	1.95	1.5	3.7	190	10.3
E589600	18.8	0.11	2.1	0.008	1.49	6.7	20.2	0.36	171	0.09	3.32	1.2	6.7	190	7.8
E589601	20.2	0.11	2.2	0.009	1.97	9.4	78.5	0.36	153	0.26	1.9	1.6	3.9	200	10.8
E589602	21.7	0.13	2.3	0.011	1.72	8.2	78.9	0.38	203	0.27	2.55	1.7	4.3	210	18
E589603	19.25	0.12	2.2	0.009	1.58	7.3	66.2	0.4	185	0.32	2.3	1.4	4	190	12.4
E589604	19.65	0.11	2.1	0.009	1.4	7.6	52.5	0.47	183	0.38	2.86	1.3	3.6	190	11.4



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589586		23.7	<0.002	1.27	2.09	54.5	3	0.8	781	0.17	0.26	0.2	1.34	0.26	0.1	1005
E589587		14	0.002	0.61	1.7	52.9	2	0.7	318	0.17	0.15	0.2	1.295	0.15	0.1	983
E589588		11.8	<0.002	0.78	1.9	54.1	3	0.8	318	0.18	0.19	0.2	1.34	0.14	0.1	991
E589589		30.1	0.002	2.34	1.75	52	3	0.9	524	0.22	0.25	0.3	1.305	0.38	0.6	916
E589590		42.2	<0.002	3.36	2.98	52.2	3	0.8	816	0.18	0.52	0.3	1.22	0.47	0.1	893
E589591		57.8	<0.002	4.08	2.12	46	3	0.7	245	0.16	0.56	0.4	1.09	0.8	0.2	777
E589592		63.3	<0.002	4.31	2.83	56	3	0.9	261	0.18	0.24	0.2	1.465	0.94	0.1	1020
E589593		69.1	<0.002	3.93	3.2	35.1	3	0.8	248	0.16	0.24	0.7	0.788	0.9	0.3	519
E589594		71.5	<0.002	1.01	2.33	14.7	2	0.5	274	0.14	0.08	1.6	0.219	0.82	0.6	91
E589595		97.2	<0.002	0.76	2	15.3	2	0.5	217	0.13	0.17	1.4	0.209	0.86	0.6	99
E589596		101.5	<0.002	1.57	2.71	17.5	2	0.5	197	0.13	0.24	1.5	0.241	0.94	0.6	106
E589597		101	<0.002	1.48	2.83	15.6	2	0.5	174	0.16	0.2	1.2	0.263	0.92	0.5	101
E589598		99.9	<0.002	0.41	0.85	2.4	1	0.4	274	0.08	0.16	1.2	0.045	0.78	0.7	44
E589599		108	<0.002	0.52	0.96	2.5	1	0.5	187.5	0.13	<0.05	2	0.073	0.88	1	17
E589600		58.2	<0.002	0.12	0.18	2.8	1	0.5	382	0.09	<0.05	1.5	0.071	0.33	0.6	19
E589601		106	<0.002	0.43	1.19	2.6	1	0.5	208	0.13	<0.05	1.9	0.074	0.81	1	16
E589602		90.7	<0.002	0.37	1.76	2.7	1	0.5	280	0.13	<0.05	2.1	0.077	0.74	1	17
E589603		80.9	<0.002	0.48	1.5	2.6	1	0.5	244	0.12	<0.05	1.8	0.066	0.7	0.9	16
E589604		75.5	<0.002	0.56	1.52	2.5	1	0.5	223	0.11	0.05	1.9	0.062	0.6	1	17



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Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589586		5.5	20	120	33.1	0.675	
E589587		3.7	21.2	131	27.8	0.380	
E589588		2.8	20.6	141	33.4	0.428	
E589589		10.4	25.1	111	65.8	0.398	
E589590		14.7	21.8	105	37.7	1.040	
E589591		12.4	15.3	98	52.8	2.56	
E589592		18.2	20.5	122	40.3	0.492	
E589593		14.9	14.5	74	61.3	1.275	
E589594		7	8.6	50	81.3	0.143	
E589595		3.1	8.6	55	74.4	0.263	
E589596		4.4	10.3	56	78.4	0.637	
E589597		5.5	12.4	58	75.5	0.671	
E589598		1.1	2.8	25	45.6	0.234	
E589599		0.8	2.3	36	73.8	0.024	
E589600		2	2.1	30	73.2	0.002	
E589601		0.7	2.4	35	74.9	0.035	
E589602		0.5	2.6	68	80.6	0.009	
E589603		0.4	2.1	39	74.5	0.071	
E589604		0.4	2.2	34	70.5	0.114	



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Method	CERTIFICATE COMMENTS
ALL METHODS ME-MS61 ME-MS61	NSS is non-sufficient sample. Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.



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To: **TECK COMINCO LIMITED**
P.O. BOX 9
MILLERTOWN NF A0H 1V0

Page: 1
Finalized Date: 29-JAN-2008
Account: HPQ

CERTIFICATE TB07137039

Project: 244500
P.O. No.:
This report is for 80 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 20-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
P.O. BOX 9
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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 TB07137039

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589769	4.62	0.17	8.59	5.2	80	0.31	0.02	9.43	0.12	7.7	48.7	248	7.66	123	8.14
E589770	5.17	0.06	6.67	8.1	360	0.53	0.04	4.54	0.05	40.1	14	43	13.95	47.5	2.59
E589771	4.82	0.21	7.41	6.1	410	0.45	0.03	7.99	0.05	37.9	21.7	102	12.45	84.6	3.65
E589772	5.01	0.1	7.33	25.2	320	0.57	0.02	6.9	0.05	35.5	15.5	72	11.1	48.8	2.95
E589773	4.97	0.07	7.2	90.7	360	0.64	0.03	4.33	0.04	31.6	12.9	60	15.05	32.6	2.61
E589774	5.25	0.07	7.07	41.5	340	0.53	0.04	4.38	0.05	32	11.4	51	15.6	23.4	2.59
E589775	2.87	0.05	6.29	8.7	240	0.43	0.02	8.16	0.06	43.9	8.1	37	18.25	26.1	1.71
E589776	5.57	0.16	7.66	2.6	80	0.39	0.03	6.51	0.13	8.02	44.4	212	25	115	8.12
E589777	5.13	0.15	8.07	1.7	60	0.33	0.02	7	0.14	8.56	48	219	2.61	119.5	8.94
E589778	3.61	0.04	6.84	0.6	200	0.62	0.02	1.92	0.04	33.3	12.2	51	8.54	29.8	2.62
E589779	5.37	0.05	8.13	0.4	1070	1.37	0.07	4.77	0.02	107.5	16.1	11	7.21	14.9	3.49
E589780	5.36	0.05	7.69	0.3	1030	1.29	0.14	4.42	0.02	114.5	16.6	13	6.71	15.7	3.4
E589781	6.02	0.26	8.37	0.8	50	0.32	0.07	7.61	0.12	9.29	47.1	220	3.58	152.5	8.78
E589782	5.70	0.17	8.37	1.3	60	0.26	0.06	6.75	0.12	7.12	49.6	239	4.63	148	8.9
E589783	5.99	0.14	8.12	0.4	30	0.22	0.03	6.64	0.13	6.59	47.1	235	3.63	130.5	8.35
E589784	4.17	0.16	7.61	0.8	30	0.2	0.09	7.8	0.14	6.36	46.4	236	1.52	142	7.77
E589785	5.27	0.14	7.36	0.9	20	0.2	0.13	8.37	0.12	5.56	42.5	221	1.64	114	7.42
E589786	5.46	0.11	7.79	0.9	20	0.25	0.13	8.52	0.12	6.63	46.1	233	2.56	121	7.97
E589787	5.73	0.1	8.3	0.8	10	0.22	0.01	8.87	0.12	6.32	47.6	243	1.91	124.5	8.43
E589788	5.54	0.08	7.85	1.5	20	0.22	0.01	8.31	0.13	6.12	46.3	249	1.76	119	7.4
E589789	3.50	0.06	6.89	1.3	620	1.16	0.13	1.11	0.03	12.85	3.7	13	2.65	6	1.12
E589790	5.53	0.07	7.77	2.1	20	0.21	0.06	8.33	0.13	6.14	45.1	240	2.37	115	7.57
E589791	5.23	0.09	7.34	0.7	20	0.18	0.01	8.57	0.11	5.77	42.7	224	2.83	107	7.41
E589792	5.99	0.08	7.63	0.7	20	0.24	0.01	8.8	0.15	6	42.5	218	2.42	114	7.46
E589793	5.85	0.1	7.88	1.4	30	0.22	0.03	7.16	0.24	6.43	47	242	3.93	116.5	8.06
E589794	5.52	0.12	7.71	1	50	0.25	<0.01	7.61	0.1	6.41	43.1	233	5.53	104	7.6
E589795	5.33	0.14	7.83	1.3	50	0.24	0.01	7.74	0.13	6.41	45.9	241	4.42	126.5	7.39
E589796	5.42	0.17	7.98	<0.2	140	0.34	0.06	7.94	0.21	6.75	46.3	245	12.6	120.5	7.26
E589797	4.55	0.34	7.34	0.2	180	0.27	0.39	7.65	0.43	6.83	46.8	238	20.6	141.5	8.36
E589798	4.42	0.2	6.99	0.5	120	0.23	0.32	8.36	0.21	8.14	40.2	207	9.19	105.5	7.39
E589799	4.01	0.15	8.09	5	210	0.25	0.42	10	0.08	8.47	44.6	245	4.92	91.7	6.72
E589800	0.07	1.62	2.76	4860	290	0.78	64.2	0.83	0.16	33.3	10.6	254	1.23	96.9	2.49
E589801	4.25	0.13	7.31	5.5	240	0.2	0.39	7.75	0.11	6.63	42.2	211	4.34	116.5	7.85
E589802	3.97	0.17	7.65	1.9	410	0.41	0.2	7.41	0.09	8.89	44.4	228	8.25	153	8.01
E589803	2.00	0.06	6.8	0.6	420	1.57	0.12	6.09	0.08	162.5	31.1	227	35.6	15.5	5.18
E589804	1.32	0.73	5.75	5.9	310	0.76	0.54	8.7	0.06	6.65	34.1	134	6.44	117.5	5.98
E589805	2.14	1.52	4.28	14.5	180	0.62	0.92	8.78	0.07	4.79	25.3	104	4.37	71.5	4.6
E589806	2.04	0.04	7.02	0.7	280	1.18	0.23	6.09	0.02	127.5	37	198	7.47	78.6	6.44
E589807	4.76	0.05	6.71	<0.2	160	1.29	0.15	6.43	0.05	188	34.6	194	9.55	97.8	5.08
E589808	3.05	0.04	7.46	0.9	420	0.82	0.23	7.85	0.05	33.3	40.8	211	3.82	19.9	7.05



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Project: 244500

CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589769		15.65	0.17	1.1	0.07	0.39	3.1	42.5	4.44	1430	0.36	0.6	2	127.5	250	2.8
E589770		14.95	0.15	2.9	0.042	2.27	18.9	54.5	0.77	424	1.09	0.35	2.6	30.3	440	3.7
E589771		15.05	0.17	2.3	0.061	2.06	17.9	64.1	1.19	704	1.31	0.29	2.6	51.8	490	4.1
E589772		15.8	0.16	2.6	0.043	2.39	16.3	50.3	0.76	486	1.27	0.24	2.6	34.5	520	4.3
E589773		16.6	0.15	3	0.03	2.97	13.7	50.1	0.6	320	0.98	0.18	2.8	27.3	520	4.7
E589774		15.6	0.15	3	0.029	2.82	14.1	48	0.61	333	0.88	0.21	2.8	25.7	510	4.5
E589775		11.8	0.13	2.5	0.046	1.68	21.4	27.9	0.49	682	0.52	1.39	2.1	19.9	440	3.1
E589776		14.55	0.2	1.1	0.065	0.27	3.3	38.6	4	1235	0.38	1.55	1.9	112	250	3
E589777		16.05	0.22	1.1	0.069	0.18	3.6	37.8	4.58	1325	0.31	1.63	2	117.5	240	3.1
E589778		13.85	0.17	3	0.03	0.51	14.8	60.9	1.23	389	0.95	2.95	2.6	31.9	410	4.1
E589779		20.6	0.26	3.3	0.033	2.02	52.3	79.2	1.43	469	0.15	2.89	3.8	23.4	1880	4.2
E589780		19.35	0.26	3.3	0.031	1.77	52	77.4	1.37	449	0.19	2.98	3.8	23	1710	4.8
E589781		15.5	0.21	1.1	0.078	0.19	3.9	38.5	4.35	1360	0.48	1.69	2	115.5	270	2.9
E589782		15.75	0.19	0.9	0.071	0.28	2.7	64.5	5.34	1400	0.48	1.73	2	126.5	250	2.5
E589783		15.4	0.2	1	0.065	0.19	2.4	38.5	4.75	1250	0.43	1.77	1.9	124	240	2
E589784		14.25	0.17	0.8	0.062	0.1	2.4	32.7	4.14	1275	1.26	1.68	1.7	93.4	220	2
E589785		13.75	0.18	0.6	0.058	0.08	2.1	30	3.67	1220	0.48	1.39	1.6	89.4	200	1.7
E589786		14.85	0.18	0.8	0.066	0.13	2.5	37.8	4.24	1430	0.38	1.18	1.7	95.5	210	1.6
E589787		15.65	0.2	0.7	0.068	0.1	2.3	29.7	4.41	1425	0.3	0.98	1.8	101.5	220	1.5
E589788		15	0.21	0.7	0.063	0.08	2.3	29.2	3.62	1340	0.34	1.3	1.8	97.8	220	1
E589789		17.3	0.12	2	0.01	1.54	6.4	21.8	0.35	179	0.2	3.36	1.2	7.6	200	7.1
E589790		14.2	0.2	0.7	0.063	0.12	2.3	37	3.82	1335	0.39	1.19	1.7	94.1	200	1.4
E589791		13.65	0.19	0.6	0.06	0.12	2.1	32.3	4	1320	0.36	1.16	1.6	90	200	1.4
E589792		14.9	0.33	0.7	0.058	0.1	2.3	50.3	3.75	1285	0.17	1.62	1.6	89.3	210	1.1
E589793		14.8	0.19	0.9	0.061	0.22	2.4	60.4	4.32	1405	0.36	2.02	1.7	97.8	220	2.4
E589794		14.55	0.17	0.9	0.064	0.37	2.4	57.2	4.19	1310	0.13	1.78	1.7	88.3	220	1.5
E589795		14.4	0.18	1	0.058	0.31	2.4	44.3	3.77	1280	0.26	1.6	1.7	92.7	220	2.1
E589796		15.1	0.19	0.9	0.063	0.98	2.6	66.5	3.48	1275	0.5	0.78	1.8	95.4	210	2.7
E589797		14.5	0.21	0.8	0.057	1.45	2.6	84.6	3.29	1260	6.18	0.36	1.7	93.3	220	19.1
E589798		13.25	0.17	1	0.054	0.75	3.3	56.2	2.84	1280	9.63	0.86	1.7	72.8	210	3.5
E589799		14.85	0.17	0.8	0.065	0.73	3.7	43.3	3.21	1295	21.8	1.43	1.8	85.7	240	2.6
E589800		7.26	0.16	0.9	0.036	1.36	17.1	6.2	0.36	250	11.95	0.21	5.2	16.4	240	27.9
E589801		14	0.2	0.6	0.057	0.84	2.6	37.8	4.13	1315	9.64	0.51	1.6	84.4	200	3.1
E589802		14.45	0.2	0.6	0.062	1.18	3.7	71.6	4.38	1300	4.77	0.59	1.7	89	210	2.9
E589803		19.7	0.28	4.3	0.053	1.47	74.7	149	4.83	886	0.17	2.58	8.6	179	2140	5.9
E589804		11.5	0.14	0.5	0.039	0.99	3.1	113	3.66	863	1.29	0.6	1	64.3	150	2.3
E589805		8.84	0.13	0.4	0.032	1.05	2.2	70	2.01	874	94.5	0.2	0.8	40.8	90	3.8
E589806		18.75	0.28	1.9	0.044	0.88	60.4	167.5	4.72	880	0.96	1.47	4.4	128.5	1180	2.2
E589807		21.3	0.32	3.6	0.044	0.22	83.5	139	4.23	888	0.35	2.46	8.8	198	2460	5
E589808		16.95	0.17	1.2	0.062	0.89	15.3	72.4	4.3	1185	4.88	1.27	2.7	119.5	570	2.6



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589769		15.8	0.002	0.13	1.02	41.4	2	0.5	180.5	0.14	0.07	0.2	0.473	0.16	0.1	262
E589770		77.7	0.002	0.14	0.27	8	2	0.6	93	0.19	<0.05	2.4	0.185	0.61	0.6	55
E589771		76.4	<0.002	0.17	0.53	16.9	2	0.5	122	0.17	<0.05	2	0.281	0.55	0.5	120
E589772		75.1	<0.002	0.15	0.42	12.2	2	0.6	84.7	0.18	0.05	2	0.252	0.53	0.5	94
E589773		77.2	<0.002	0.09	0.4	8.8	2	0.6	61.9	0.21	0.05	2.1	0.237	0.68	0.6	77
E589774		78.2	<0.002	0.06	0.31	8	2	0.6	57.6	0.2	0.05	2.3	0.216	0.66	0.6	66
E589775		62.5	<0.002	0.07	0.13	6.9	2	0.5	75.5	0.16	<0.05	2.3	0.166	0.42	0.6	51
E589776		14.8	0.002	0.29	0.45	37.5	2	0.5	110	0.13	0.06	0.2	0.448	0.17	0.1	247
E589777		5.3	0.002	0.24	0.55	39.6	2	0.5	131.5	0.14	0.06	0.2	0.464	0.09	0.1	263
E589778		15	0.002	0.09	0.18	8.9	2	0.6	179	0.19	<0.05	2.4	0.196	0.12	0.6	66
E589779		40.5	<0.002	0.18	0.32	7.9	2	0.7	1145	0.22	<0.05	6.7	0.283	0.32	1.1	82
E589780		34.8	<0.002	0.26	0.29	8	2	0.7	1180	0.22	0.06	7	0.272	0.27	1.2	79
E589781		5.7	0.002	0.22	0.45	40.2	2	0.5	207	0.14	<0.05	0.3	0.483	0.07	0.1	267
E589782		7.8	<0.002	0.18	0.38	40.2	3	0.6	154.5	0.14	<0.05	0.2	0.475	0.11	0.1	267
E589783		6	0.002	0.25	0.45	38.5	2	0.6	122	0.13	<0.05	0.2	0.448	0.07	0.1	250
E589784		2.5	<0.002	0.28	0.51	39.3	3	0.5	129	0.11	0.08	0.2	0.39	0.03	0.1	228
E589785		1.9	<0.002	0.14	0.55	37.6	2	0.5	138	0.11	0.08	0.2	0.372	0.02	<0.1	226
E589786		3.4	<0.002	0.27	0.81	39.7	3	0.6	172.5	0.12	<0.05	0.2	0.389	0.04	0.1	235
E589787		2.7	<0.002	0.08	0.99	42.2	2	0.5	245	0.13	<0.05	0.2	0.421	0.03	0.1	256
E589788		2.5	<0.002	0.15	0.92	41.6	2	0.5	199	0.12	<0.05	0.2	0.4	0.03	0.1	241
E589789		53.6	<0.002	0.09	0.16	2.7	2	0.5	410	0.09	<0.05	1.6	0.066	0.3	0.6	20
E589790		4	<0.002	0.11	0.82	40	2	0.5	240	0.11	<0.05	0.2	0.391	0.04	0.1	232
E589791		4.3	<0.002	0.07	0.67	37.9	3	0.5	195	0.11	<0.05	0.2	0.373	0.04	<0.1	223
E589792		3.7	<0.002	0.28	0.61	38.2	3	0.5	183.5	0.11	<0.05	0.2	0.384	0.05	0.1	233
E589793		7.5	<0.002	0.37	0.68	40.8	2	0.5	211	0.11	<0.05	0.2	0.392	0.08	0.1	240
E589794		15.3	<0.002	0.04	0.64	41.8	2	0.5	252	0.12	<0.05	0.2	0.413	0.11	<0.1	249
E589795		11.5	<0.002	0.21	0.69	40.3	3	0.5	161.5	0.12	0.05	0.2	0.409	0.1	0.1	242
E589796		52.9	<0.002	0.31	0.56	42.6	3	0.5	145	0.12	0.08	0.2	0.419	0.4	0.1	252
E589797		73	<0.002	0.58	0.49	38.6	3	0.5	117	0.12	0.19	0.2	0.392	0.8	0.1	245
E589798		40.4	<0.002	0.27	0.53	36.5	3	0.6	187	0.11	0.08	0.3	0.361	0.34	0.1	217
E589799		33.9	0.002	0.16	0.68	43.7	2	0.5	316	0.13	0.07	0.2	0.432	0.25	0.1	253
E589800		64.4	0.004	0.93	7.33	4.5	6	3.7	64.2	1.44	23.7	6.3	0.125	0.31	1.7	29
E589801		44.1	<0.002	0.16	0.85	38.5	2	0.4	294	0.12	0.12	0.2	0.378	0.28	<0.1	229
E589802		47.1	<0.002	0.35	0.7	40.3	2	0.4	306	0.12	0.12	0.2	0.399	0.35	<0.1	242
E589803		81.4	<0.002	0.42	0.17	16.7	2	1.1	1035	0.46	0.05	7.8	0.516	0.77	1.5	147
E589804		32.6	<0.002	2.43	0.29	25.5	3	0.3	174.5	0.07	0.86	0.2	0.226	0.17	0.1	185
E589805		38.2	0.011	2.77	1.02	18.7	4	0.3	237	0.05	1.94	<0.2	0.17	0.22	0.1	140
E589806		29.7	<0.002	0.44	0.28	31.3	2	0.6	300	0.22	0.08	2.5	0.427	0.2	0.5	187
E589807		7.7	<0.002	0.33	0.26	17.2	2	1	794	0.41	0.05	6.3	0.514	0.07	1.2	134
E589808		31.1	0.002	0.2	0.7	37.9	2	0.5	693	0.15	<0.05	1.2	0.383	0.22	0.2	212



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CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E589769		1.5	19.1	93	31.4	0.031	
E589770		0.9	7	60	99.3	0.006	
E589771		1.8	10.6	56	84.2	0.009	
E589772		1.4	9	63	95.4	0.006	
E589773		0.7	7	61	108	0.027	
E589774		0.8	7.1	72	106.5	0.014	
E589775		0.6	7.3	47	89.3	0.005	
E589776		2.3	17.3	93	33.8	0.007	
E589777		0.8	18.7	102	32	0.009	
E589778		1.2	8	42	106	0.007	
E589779		0.9	10	45	117	0.005	
E589780		1.1	10.2	49	114	0.005	
E589781		2.3	18.9	103	31.8	0.017	
E589782		0.8	17.5	95	29.7	0.014	
E589783		2.4	17.1	87	31.1	0.009	
E589784		1.2	15.8	84	24.9	0.012	
E589785		1	15	76	18.5	0.015	
E589786		1.4	16.1	86	25.5	0.006	
E589787		0.3	17	84	19.2	0.008	
E589788		0.4	16.5	81	18.5	0.006	
E589789		2	2.3	29	69.7	0.004	
E589790		0.4	15.9	80	19.2	0.008	
E589791		0.3	15.2	75	15.4	0.009	
E589792		0.7	15.1	80	21.7	0.014	
E589793		0.7	16.4	108	26.7	0.010	
E589794		0.7	16.6	75	24.3	0.019	
E589795		0.7	16.4	78	29.2	0.018	
E589796		0.8	16.9	89	28.2	0.021	
E589797		0.9	13.9	139	26.5	0.015	
E589798		0.8	14.4	93	30.1	0.013	
E589799		1	18.7	75	23.6	0.012	
E589800		141	7.1	28	9.1	>10.0	15.40
E589801		1.4	15.7	72	15.9	0.016	
E589802		1.9	16.1	76	18.1	0.017	
E589803		1.6	16.3	76	154.5	0.004	
E589804		3.7	10.8	63	17	0.059	
E589805		11.8	8.9	39	13.4	0.271	
E589806		2.4	13.7	98	81.3	0.007	
E589807		2	14.6	73	160	0.006	
E589808		1.4	15.3	75	46.3	0.008	



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CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589809		5.89	0.04	7.72	0.4	370	0.31	0.15	6.76	0.05	10.75	44.4	230	4.38	91.5	7.6
E589810		5.93	0.08	7.92	1.5	40	0.23	0.02	8.34	0.1	5.2	45.2	226	1.22	112.5	7.48
E589811		4.01	0.15	7.91	1.7	70	0.25	0.03	8.31	0.2	5.01	44	229	1.77	112	7.43
E589812		6.22	0.13	8.33	4.5	80	0.22	0.03	8.62	0.16	5.36	49.8	227	2.44	121.5	8.34
E589813		5.18	0.07	7.9	1.6	170	0.21	0.02	7.63	0.09	5.26	46.6	219	2.72	120.5	8.03
E589814		7.05	0.2	7.66	6.3	100	0.24	0.02	8.21	0.3	5.08	46.1	224	2.49	119	7.37
E589815		4.80	0.16	8.26	6.3	140	0.2	0.02	7.8	0.23	5.4	48.4	248	3.37	119	8.19
E589816		5.77	0.1	8.02	4.5	50	0.17	0.01	8.69	0.1	5.32	48.9	228	1.61	136	8.03
E589817		5.92	0.09	8.15	6.7	50	0.2	0.01	8.43	0.11	5.29	46.5	248	2.15	112.5	7.97
E589818		5.17	0.07	7.22	4.6	20	0.18	0.01	8.36	0.1	4.69	42.2	211	1.48	105.5	6.99
E589819		6.25	0.07	7.7	5.6	20	0.2	0.01	8.53	0.11	4.97	45.4	234	1.83	109.5	7.41
E589820		5.72	0.07	7.81	5	20	0.22	0.02	8.09	0.14	5.1	45.9	218	1.98	116.5	7.64
E589821		5.92	0.11	7.83	9.7	20	0.2	0.01	8.29	0.12	5.09	45.3	246	1.28	117.5	7.63
E589822		5.64	0.08	9.07	2.5	20	0.21	0.01	8.92	0.11	6.13	51.8	269	1.87	127	8.91
E589823		5.51	0.07	8.11	5.6	20	0.15	0.01	8.22	0.1	5.37	46.9	232	1.67	109	7.75
E589824		5.22	0.07	8.2	10.4	20	0.2	0.01	8.25	0.1	5.34	49.3	234	1.61	129	7.84
E589825		5.30	0.08	8.2	10.6	20	0.27	0.02	8.12	0.11	5.39	49.7	247	2.79	122	8.12
E589826		5.97	0.07	8.03	5.8	10	0.24	0.01	8.16	0.11	5.27	47.2	229	1.71	127.5	8.04
E589827		5.66	0.06	7.95	3.3	20	0.17	0.04	8.21	0.12	5.17	47.1	247	1.54	107.5	8.33
E589828		5.28	0.08	7.81	2.1	20	0.24	0.01	8.33	0.12	5.08	44.6	230	1.62	109.5	7.72
E589829		5.88	0.08	8.02	1.8	30	0.24	0.01	8.17	0.11	5.06	45.5	231	1.85	113.5	7.53
E589830		5.48	0.1	7.83	0.8	30	0.17	0.01	7.98	0.17	4.98	44.2	241	5.08	108.5	7.86
E589831		5.00	0.11	7.54	0.6	60	0.23	0.03	7.38	0.37	5.03	48.6	248	20.7	159	8.76
E589832		5.41	0.1	8	1.2	30	0.2	0.01	7.88	0.16	5.14	46.5	245	4.03	117	8.42
E589833		5.35	0.11	8.08	0.4	50	0.27	0.01	7.91	0.39	5.23	45.1	243	10.85	100	7.75
E589834		5.66	0.1	7.63	1.1	50	0.33	0.01	7.85	0.46	5.02	43.2	240	9.57	109.5	7.58
E589835		2.59	0.04	7.45	1.2	650	1	0.09	0.93	0.03	14.8	3.2	16	2.59	3.4	1.08
E589836		5.30	0.09	7.85	0.9	30	0.14	0.02	8.17	0.17	5.2	45.4	237	2.56	88.9	7.86
E589837		5.69	0.08	8.06	2.4	20	0.21	0.01	8.6	0.16	5.18	45.4	237	1.69	103.5	7.8
E589838		4.76	0.12	8.21	6	40	0.2	0.01	9.23	0.21	6.35	44.6	240	2.19	119	8.47
E589839		5.70	0.1	8.18	8.8	20	0.23	0.01	8.04	0.23	5.72	48.6	235	1.92	119.5	8.27
E589840		5.84	0.1	8.23	6.6	20	0.26	0.01	8.41	0.15	5.9	48.3	248	2.07	112	8.4
E589841		5.75	0.11	8.57	7.7	20	0.19	0.01	8.82	0.17	5.92	50.1	242	1.9	124	8.52
E589842		1.79	0.14	8.32	4	210	0.56	0.06	7.06	0.21	42.3	37.4	221	2.48	112.5	7.09
E589843		4.06	0.12	8.2	5.3	20	0.18	0.03	7.25	0.26	5.65	50.3	257	2.12	111.5	8.68
E589844		6.10	0.11	8.26	6.5	30	0.21	0.01	8.05	0.19	5.01	45.6	253	2.87	93.2	8.74
E589845		4.06	0.13	7.85	1.7	30	0.15	0.01	8.64	0.22	5.17	43.6	236	2.69	95.6	8.23
E589846		1.94	0.4	5.4	1.2	40	0.11	0.05	6.98	2.09	5.48	55	168	2.92	349	11.45
E589847		5.55	0.14	8.38	0.7	40	0.23	0.01	8.79	0.18	5.49	48.2	251	7.38	117.5	8.64
E589848		5.82	0.15	8.43	1.8	80	0.26	0.02	8.72	0.14	5.47	47.9	249	15.2	145.5	8.31



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CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589809		16	0.15	0.8	0.052	0.79	4.5	56.6	4.71	1395	24.9	0.82	1.7	112	270	2.4
E589810		15.85	0.12	0.6	0.053	0.12	2	34.3	3.44	1400	0.42	1.33	1.6	102.5	210	1.6
E589811		15.65	0.11	0.6	0.055	0.17	1.9	37.4	3.45	1470	2.1	1.64	1.5	102	200	3.7
E589812		16.8	0.15	0.7	0.054	0.23	2	37	4.11	1495	0.39	1.06	1.7	110	220	3.1
E589813		16.15	0.15	0.6	0.051	0.37	2	44.9	4.41	1485	0.51	0.79	1.5	105.5	210	1.7
E589814		16.25	0.14	0.6	0.053	0.23	1.9	36.8	3.61	1430	0.3	1.38	1.6	101.5	210	3.7
E589815		16.85	0.15	0.7	0.053	0.35	2	48.7	4.11	1535	0.26	1.62	1.7	108.5	210	3.1
E589816		17.3	0.13	0.6	0.053	0.13	2	36.8	3.88	1460	0.28	1.02	1.6	108.5	220	1.3
E589817		16.15	0.14	0.7	0.052	0.2	1.9	37.6	4.02	1475	0.25	1.4	1.6	107.5	220	1.1
E589818		14.45	0.11	0.5	0.048	0.09	1.7	30.6	3.35	1230	0.28	1.23	1.5	93.9	190	0.9
E589819		15.45	0.12	0.6	0.053	0.09	1.9	30.2	3.66	1290	0.28	1.15	1.6	101.5	210	0.7
E589820		15.95	0.13	0.6	0.054	0.08	1.9	44.9	3.55	1350	0.26	1.28	1.6	102	210	0.9
E589821		15.7	0.15	0.7	0.053	0.08	1.9	31.6	3.7	1390	0.27	1.47	1.7	100.5	210	0.6
E589822		18.75	0.14	0.8	0.062	0.07	2.3	36.9	4.3	1510	0.39	1.57	1.9	119.5	240	0.7
E589823		16.4	0.14	0.6	0.058	0.08	2	36.8	3.76	1395	1.52	1.43	1.6	103	220	0.6
E589824		16.2	0.15	0.7	0.057	0.08	2	43.3	3.87	1400	0.28	1.46	1.7	108.5	210	0.6
E589825		16.65	0.14	0.6	0.058	0.1	2	53.4	3.93	1470	0.23	1.27	1.7	108.5	220	0.9
E589826		15.5	0.15	0.6	0.054	0.08	2	63.3	3.98	1505	0.27	1.18	1.6	103.5	210	0.7
E589827		15.95	0.13	0.6	0.06	0.07	1.9	60.9	4.09	1610	0.28	1.22	1.6	105.5	200	0.7
E589828		16.05	0.13	0.6	0.057	0.08	1.9	64.8	3.66	1405	0.22	1.17	1.6	99.8	200	0.7
E589829		15.65	0.11	0.6	0.047	0.11	1.8	43.8	3.88	1360	0.26	1.47	1.6	104.5	220	0.8
E589830		15.4	0.1	0.6	0.053	0.12	1.8	49.5	3.98	1350	0.26	1.51	1.6	100.5	200	0.9
E589831		15.55	0.14	0.6	0.057	0.2	1.8	86.6	4.31	1475	0.24	1.17	1.6	103	210	1
E589832		16.8	0.12	0.7	0.061	0.13	1.9	63.4	4.42	1420	0.25	1.26	1.6	105	190	0.9
E589833		15.95	0.14	0.7	0.047	0.16	2	50.6	3.94	1350	0.19	1.82	1.6	104	220	1
E589834		15.25	0.11	0.7	0.054	0.14	1.9	53.5	3.65	1265	0.33	1.64	1.5	98.9	200	0.9
E589835		19.15	<0.05	2	0.007	1.6	7.8	19.6	0.34	151	0.18	3.33	1	6.6	200	5.9
E589836		15.65	0.14	0.6	0.056	0.1	1.9	43.9	4.32	1330	0.34	1.4	1.6	104.5	200	1
E589837		16.55	0.13	0.6	0.053	0.09	1.9	53.3	3.65	1315	0.26	1.42	1.6	101.5	220	1
E589838		15.85	0.12	0.7	0.058	0.15	2.4	65.3	4.27	1400	0.33	1.01	1.9	98.9	220	1.4
E589839		15.65	0.12	0.7	0.059	0.09	2.1	48.6	4.34	1385	0.27	1.31	1.7	104.5	210	0.9
E589840		16.35	0.12	0.7	0.061	0.09	2.2	45.7	4.4	1395	0.52	1.25	1.8	105	200	1
E589841		17	0.13	0.7	0.062	0.08	2.2	45.9	4.36	1380	0.35	1.38	1.9	109	230	1
E589842		17.05	0.13	1.7	0.044	0.13	21	58.3	4.02	1175	0.26	1.75	3	120	620	2.6
E589843		15.7	0.11	0.6	0.063	0.09	2.1	65.9	4.45	1380	0.31	1.5	1.8	103.5	220	1.1
E589844		15.8	0.13	0.7	0.056	0.14	1.8	63.4	4.7	1450	0.33	1.22	1.6	106	210	1.5
E589845		13.85	0.11	0.7	0.055	0.11	1.9	53.4	4.2	1375	0.23	1.24	1.7	95.1	210	1.3
E589846		11.8	0.14	0.6	0.064	0.14	2.1	67.9	4.23	1295	0.38	0.69	1.1	88.4	260	1.1
E589847		16.4	0.13	0.8	0.057	0.17	2	56.9	4.4	1355	0.19	1.28	1.7	102.5	210	1
E589848		15.65	0.11	0.8	0.057	0.3	2	61.6	4.07	1365	0.26	1.47	1.7	104.5	210	1.1



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CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589809		40.3	0.004	0.07	0.76	42.9	2	0.5	393	0.1	<0.05	0.4	0.369	0.26	0.1	222
E589810		3.7	<0.002	0.14	0.7	44.4	2	0.5	212	0.1	0.05	<0.2	0.404	0.03	<0.1	232
E589811		6.6	<0.002	0.3	0.77	43.6	2	0.5	293	0.1	<0.05	<0.2	0.402	0.06	<0.1	232
E589812		11.3	<0.002	0.13	0.99	46.6	2	0.5	244	0.1	<0.05	<0.2	0.426	0.08	<0.1	244
E589813		18.1	<0.002	0.12	0.88	44.1	2	0.5	271	0.1	<0.05	<0.2	0.394	0.12	<0.1	236
E589814		9.5	<0.002	0.12	0.94	43.9	2	0.5	240	0.1	<0.05	<0.2	0.391	0.08	<0.1	224
E589815		15.8	<0.002	0.09	0.98	45.8	2	0.5	300	0.11	<0.05	0.2	0.428	0.11	<0.1	244
E589816		5.6	<0.002	0.16	1.27	46.3	3	0.5	218	0.1	0.05	<0.2	0.423	0.05	<0.1	247
E589817		8.3	<0.002	0.08	1.1	45.2	2	0.5	233	0.1	<0.05	0.2	0.42	0.07	<0.1	241
E589818		3	<0.002	0.1	0.8	40.3	2	0.5	194	0.09	0.07	<0.2	0.372	0.03	<0.1	211
E589819		3.3	<0.002	0.1	0.89	42.5	2	0.5	177.5	0.1	<0.05	<0.2	0.402	0.03	<0.1	232
E589820		3.3	<0.002	0.16	0.94	43.4	2	0.5	197	0.1	<0.05	<0.2	0.407	0.03	<0.1	235
E589821		1.7	<0.002	0.13	1.13	42.4	2	0.5	204	0.1	<0.05	<0.2	0.409	0.03	<0.1	233
E589822		2.3	<0.002	0.17	0.78	49.1	2	0.6	178.5	0.11	<0.05	0.2	0.465	0.03	<0.1	269
E589823		2.1	<0.002	0.14	0.95	43.7	2	0.5	191.5	0.1	<0.05	<0.2	0.41	0.04	<0.1	237
E589824		2	<0.002	0.15	1	45.4	2	0.5	154.5	0.1	<0.05	<0.2	0.421	0.03	<0.1	241
E589825		3.6	<0.002	0.12	1.26	45.9	3	0.5	231	0.1	<0.05	<0.2	0.426	0.04	<0.1	244
E589826		2.4	<0.002	0.2	1.05	43.2	2	0.6	186	0.1	0.05	<0.2	0.401	0.03	<0.1	235
E589827		1.9	<0.002	0.25	0.89	43.5	2	0.6	128	0.1	<0.05	<0.2	0.406	0.03	<0.1	235
E589828		2.3	<0.002	0.14	1.12	42.1	2	0.6	162	0.1	<0.05	<0.2	0.397	0.04	<0.1	230
E589829		3.1	<0.002	0.15	0.92	42	2	0.5	157	0.1	<0.05	<0.2	0.403	0.05	<0.1	233
E589830		5.3	<0.002	0.22	0.69	41.6	2	0.5	122.5	0.09	<0.05	0.2	0.397	0.07	<0.1	230
E589831		17.4	<0.002	0.61	0.74	42.4	2	0.6	96.4	0.09	0.06	<0.2	0.407	0.18	<0.1	240
E589832		6	<0.002	0.18	0.92	42.1	3	0.6	118.5	0.09	<0.05	<0.2	0.405	0.06	<0.1	246
E589833		10	<0.002	0.31	0.74	43	2	0.7	106.5	0.1	0.07	<0.2	0.414	0.11	<0.1	238
E589834		8.8	<0.002	0.34	0.79	40.7	3	0.9	105	0.09	0.05	<0.2	0.393	0.1	<0.1	231
E589835		59.9	<0.002	0.07	0.14	2.8	1	0.5	394	0.07	<0.05	1.7	0.063	0.35	0.6	18
E589836		3.1	<0.002	0.15	0.75	43.5	2	0.5	141	0.1	<0.05	<0.2	0.417	0.04	<0.1	238
E589837		2.1	<0.002	0.22	0.87	42.4	2	0.5	151	0.1	<0.05	<0.2	0.409	0.03	<0.1	240
E589838		6.3	0.002	0.17	1.54	39.6	2	0.6	171.5	0.11	0.05	0.3	0.407	0.05	0.1	246
E589839		2.5	0.002	0.13	1.17	40.6	2	0.5	190.5	0.1	0.06	0.2	0.409	0.03	<0.1	248
E589840		3.3	0.002	0.09	1.02	41.7	2	0.5	217	0.1	0.06	0.2	0.415	0.03	<0.1	252
E589841		2	0.002	0.12	1.18	42.7	2	0.5	221	0.1	0.05	0.2	0.431	0.03	<0.1	260
E589842		2.9	<0.002	0.15	0.65	28.7	1	0.6	575	0.16	<0.05	4.1	0.383	0.03	0.9	188
E589843		2.6	<0.002	0.37	0.9	41.9	2	0.6	189.5	0.1	0.05	0.2	0.411	0.03	<0.1	246
E589844		4.6	0.002	0.12	1.24	35.8	1	0.5	249	0.09	0.05	<0.2	0.419	0.04	<0.1	260
E589845		4.1	<0.002	0.32	0.81	37.5	2	0.7	183.5	0.09	0.05	<0.2	0.389	0.04	<0.1	238
E589846		7.6	0.002	2.4	0.56	25.9	3	2.8	84.2	0.06	0.17	<0.2	0.254	0.06	<0.1	167
E589847		8.1	<0.002	0.29	0.77	41.8	2	0.7	153	0.1	<0.05	0.2	0.419	0.08	<0.1	255
E589848		15.9	0.002	0.41	0.8	40.1	2	0.5	147	0.09	0.06	0.2	0.412	0.15	<0.1	252



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Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07137039

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589809		0.6	14.9	78	26.1	0.007	
E589810		0.6	15.5	82	19.6	0.008	
E589811		0.9	15	98	19	0.006	
E589812		0.4	16.3	91	19	0.007	
E589813		0.4	15.5	83	18.3	0.008	
E589814		0.5	15.5	98	15.9	0.009	
E589815		0.5	16.2	101	17.9	0.007	
E589816		0.5	16.4	83	13.1	0.007	
E589817		0.4	15.9	82	15.7	0.007	
E589818		0.4	14.3	75	12.9	0.006	
E589819		0.5	15.2	78	16.8	0.007	
E589820		0.7	15.8	85	14.7	0.006	
E589821		0.4	15.2	82	14.9	0.007	
E589822		0.6	17.7	96	20.8	0.007	
E589823		0.4	15.8	81	14.6	0.007	
E589824		0.5	16.3	86	15.5	0.007	
E589825		0.5	16.4	88	15.1	0.006	
E589826		0.6	15.7	85	15.8	0.005	
E589827		1.4	15.7	92	20.2	0.004	
E589828		1.4	15.3	81	16.2	0.009	
E589829		0.8	15.3	85	17.9	0.007	
E589830		0.9	14.9	106	20.3	0.004	
E589831		2	15.5	202	20.6	0.004	
E589832		0.8	15.6	111	16.9	0.015	
E589833		1.2	15.9	199	20.7	0.006	
E589834		1.2	14.9	228	18.1	0.002	
E589835		1.9	2	34	75.7	0.002	
E589836		0.8	15.8	106	18.6	0.011	
E589837		0.6	15.6	123	18.9	0.004	
E589838		0.4	16.4	144	15.8	0.004	
E589839		0.3	16.3	121	14.5	0.007	
E589840		0.4	16.7	92	16.5	0.007	
E589841		0.4	17.2	104	15	0.009	
E589842		0.6	12.3	137	50.1	0.006	
E589843		0.4	16.6	164	14.2	0.007	
E589844		0.4	14.6	113	13.5	0.010	
E589845		0.5	14.9	145	17.4	0.003	
E589846		0.4	13.1	623	14.7	0.016	
E589847		1.1	16.7	122	25.7	0.009	
E589848		2.5	16	93	21.5	0.012	



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CERTIFICATE OF ANALYSIS TB07137039

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE TB07137051

Project: 244500

P.O. No.:

This report is for 72 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

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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 TB07137051

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
E589849	5.10	0.09	7.65	3.7	40	0.25	0.01	8.21	0.08	5.52	45.7	220	3.93	112	7.46	
E589850	5.70	0.12	8.19	1.6	90	0.28	<0.01	7.48	0.09	5.52	48.3	242	14.15	127.5	7.63	
E589851	6.18	0.12	7.78	1.7	60	0.2	<0.01	6.58	0.1	5.01	46.1	238	14.6	119	8.07	
E589852	5.50	0.1	7.34	1.4	30	0.21	<0.01	8.96	0.11	4.9	44.7	224	3.87	124.5	8	
E589853	3.41	0.08	7.84	1.5	20	0.19	<0.01	8.51	0.09	5.24	45.4	226	1.66	126	7.65	
E589854	3.24	0.09	7.68	2.9	30	0.23	<0.01	8.79	0.11	5.11	47.1	234	2.15	128	8.07	
E589855	2.57	0.06	7.47	2.1	20	0.16	<0.01	8.79	0.1	4.81	43.1	222	2.26	115	7.59	
E589856	3.12	0.05	7.85	2.8	20	0.31	<0.01	8.23	0.09	5.35	48.1	239	1.87	109	8.18	
E589857	3.07	0.07	7.61	1.7	20	0.37	<0.01	7.65	0.09	4.83	45.2	228	1.98	122	8.22	
E589858	4.86	0.06	7.81	3.9	20	0.15	<0.01	7.66	0.1	5.2	47.6	252	3.18	113.5	7.92	
E589859	5.47	0.05	7.82	3.1	30	0.16	<0.01	8.95	0.1	5.22	47.1	225	2.22	112.5	8.15	
E589860	4.36	0.08	7.82	2.8	40	0.3	0.01	9.05	0.09	5	46.4	231	3.42	118	8.04	
E589861	3.59	0.14	8.32	2.5	110	0.46	0.02	9.04	0.1	5.48	49	252	6.76	130	8.43	
E589862	3.33	0.03	6.68	4.5	520	0.67	0.13	2.68	0.03	11.15	3.7	12	9.94	7.2	1.09	
E589863	5.07	0.05	6.98	5	600	0.85	0.1	2.05	0.04	12.9	4.5	22	13.75	9.4	1.29	
E589864	4.76	0.08	7.4	6.5	470	0.95	0.09	1.75	0.03	13.3	3.9	24	14.75	9.5	1.26	
E589865	5.05	0.09	6.54	7.4	510	1.07	0.07	1.81	0.04	12.75	3	12	10.9	5.4	1.12	
E589866	5.38	0.06	7.26	3.3	470	0.86	0.04	1.63	<0.02	14.3	2.5	11	11.4	5.3	1.14	
E589867	4.78	0.04	7.23	3.3	480	0.95	0.05	1.59	0.03	13.75	3.3	13	15.2	5.8	1.19	
E589868	5.08	0.05	6.99	6.4	490	0.94	0.06	1.47	0.02	13.1	2.9	11	12.05	4	1.02	
E589869	4.76	0.04	7.21	6.5	570	0.94	0.06	1.64	0.03	14.1	3	14	11.6	5.9	1.1	
E589870	3.38	0.11	6.98	5.4	480	0.65	0.06	2.16	0.04	12.45	7.8	31	10.35	19.9	1.79	
E589871	4.97	0.18	7.86	5.5	390	0.73	0.07	6.38	0.08	10.85	26.5	138	16.65	65.7	4.98	
E589872	3.75	0.21	7.99	3.6	430	0.73	0.08	7.02	0.08	13.1	28	162	20.9	72.7	5.22	
E589873	3.99	0.22	7.88	3.8	370	0.53	0.06	7.07	0.06	9.83	33.9	189	18.5	87.3	6.38	
E589874	3.95	0.2	7.57	4	410	0.64	0.05	7.01	0.15	11.85	29	166	13.1	79.7	5.31	
E589875	4.03	0.21	7.98	3.4	250	0.57	0.04	7.02	0.08	9.51	35	197	18.15	96.7	6.39	
E589876	3.95	0.18	8.03	4.8	260	0.45	0.07	8.24	0.11	8.24	34.8	195	17.25	107	6.62	
E589877	3.77	0.14	8.12	2.9	240	0.58	0.04	7.01	0.1	9.83	31.9	185	19.55	89.1	5.89	
E589878	4.37	0.26	8.2	1.9	220	0.67	0.08	7.56	0.1	5.66	40.7	256	14.55	113	7.19	
E589879	4.20	0.17	8.29	1	220	0.44	0.03	7.9	0.11	6.14	44	252	18.9	124.5	8.07	
E589880	4.31	0.15	8.16	1.1	150	0.41	0.02	8.53	0.1	5.07	39	237	11.95	112.5	7.53	
E589881	4.29	0.17	7.57	1.3	110	0.37	0.02	8.26	0.1	5.89	41.4	223	11.55	114	7.32	
E589882	4.36	0.14	7.56	1.8	100	0.36	0.05	8.35	0.12	6.49	42.2	237	14.8	108	7.27	
E589883	2.38	0.15	8.1	2.5	90	0.31	0.05	8.55	0.13	6.39	42.6	240	11.95	110.5	7.9	
E589884	3.38	0.2	7.85	2.6	100	0.42	0.05	8.7	0.13	8.47	43.7	228	12.95	119.5	7.48	
E589885	2.36	0.11	7.51	1.3	400	1	0.15	5.38	0.11	58.6	33.6	183	27.9	39.8	6.44	
E589886	2.63	0.08	7.45	2.4	380	0.9	0.12	5.26	0.08	51.1	28.6	195	24.6	30.7	6.17	
E589887	3.40	0.16	7.77	2.5	180	0.35	0.04	8.57	0.18	7.05	41.5	226	10.35	119	6.93	
E589888	2.96	0.17	7.44	1.9	180	0.24	0.02	7.88	0.07	5.78	38.9	223	9.68	101.5	7.23	



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CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589849		14.1	0.07	0.6	0.051	0.18	2	70.2	3.64	1420	0.39	0.97	1.5	110	220	1.4
E589850		15.2	0.09	0.9	0.051	0.24	2	60.3	3.57	1305	0.43	1.88	1.7	112.5	220	1.2
E589851		14.45	0.09	0.7	0.05	0.17	1.7	69.8	4.32	1460	0.19	1.89	1.5	104.5	210	1.2
E589852		14.15	0.08	0.7	0.052	0.09	1.8	60.2	3.95	1555	0.3	1.55	1.5	101.5	220	1.1
E589853		14.5	0.08	0.9	0.051	0.07	1.8	46.1	3.82	1420	0.24	1.47	1.5	103	220	1.3
E589854		14.8	0.09	0.7	0.052	0.09	1.8	57.7	3.94	1485	0.3	1.35	1.5	104	210	1.1
E589855		14.3	0.1	0.7	0.047	0.08	1.7	90.2	3.92	1480	0.26	1.4	1.5	99.6	220	1.3
E589856		15.45	0.1	0.7	0.052	0.06	1.9	70.4	4.27	1550	0.25	1.36	1.6	108	220	1.5
E589857		13.4	0.09	0.6	0.046	0.06	1.7	80.4	4.92	1640	0.26	1.03	1.4	102.5	210	1
E589858		15.05	0.1	0.7	0.054	0.12	1.9	55.6	4.47	1345	0.23	1	1.4	110	220	1.5
E589859		14.75	0.08	0.6	0.046	0.11	1.9	58.6	3.92	1520	0.25	0.94	1.6	103	210	1.6
E589860		14.9	0.09	0.5	0.048	0.19	1.8	61.1	3.97	1430	0.19	0.66	1.4	109	200	3.8
E589861		16.05	0.08	0.9	0.057	0.28	2	46.4	3.91	1485	0.33	1.59	1.7	110.5	230	5.8
E589862		16.85	0.06	2	0.02	1.56	5	54.8	0.35	186	0.29	3.06	1.6	5.6	200	8.9
E589863		17.85	0.07	2.1	0.015	1.97	6	64.1	0.43	208	0.32	2.64	1.8	8.2	200	11.5
E589864		17.9	0.06	2	0.01	1.63	6.3	58.3	0.35	187	0.24	2.85	1.6	6.6	200	13.6
E589865		17.15	0.07	1.9	0.009	1.58	6	51.4	0.27	163	0.42	2.72	1.5	4.6	170	16.1
E589866		17.55	0.07	2	0.009	1.59	6.8	49.7	0.3	172	0.39	3	1.7	4.1	190	14
E589867		19.25	0.07	2.1	0.013	1.67	6.4	59.1	0.33	181	0.28	2.9	1.8	5.3	190	14.6
E589868		17.85	0.08	1.9	0.014	1.75	6	59.1	0.27	140	0.82	2.71	1.5	4.3	190	14.4
E589869		18.65	0.07	2	0.008	2.03	6.5	61.5	0.36	165	0.95	2.5	1.7	4.5	200	15.5
E589870		16.9	0.08	1.9	0.013	1.56	5.6	77.8	0.69	283	0.63	2.51	1.8	14.1	190	15.7
E589871		17.5	0.11	1.9	0.038	1.27	5.3	86.9	2.35	912	0.39	1.5	2	54.1	210	10.9
E589872		17.6	0.12	1.8	0.043	1.44	6.2	95.7	2.46	1020	0.43	1.38	2	59.7	220	8.4
E589873		16.7	0.11	1.6	0.041	1.39	4.6	143	3.12	1185	0.47	1.04	1.8	72.3	220	6
E589874		16.55	0.12	1.7	0.042	1.46	5.7	140.5	2.56	1010	0.37	1.13	1.9	61.9	200	6.1
E589875		15.95	0.14	1.6	0.042	0.99	4.3	79.8	3	1110	0.43	1.46	1.9	73.5	230	5.5
E589876		15.5	0.11	1.6	0.048	1.07	3.6	82.4	3.24	1225	0.33	1.28	1.8	75.8	220	4.3
E589877		16.25	0.12	1.7	0.046	1.01	4.4	87.2	2.93	1110	0.36	1.44	2	66.8	220	4.3
E589878		15.35	0.14	1.2	0.058	1.25	2.3	79.2	3.26	1225	0.51	0.85	1.7	92.4	210	3.5
E589879		15.35	0.14	1.1	0.058	1.59	2.4	99.4	3.95	1320	0.54	0.49	1.7	98.9	220	2.3
E589880		13.6	0.1	1.1	0.052	0.98	1.9	72.2	3.82	1380	0.82	0.78	1.5	91.8	210	1.9
E589881		14.25	0.12	1.1	0.054	0.78	2.2	70.1	3.61	1335	0.44	0.84	1.6	91.7	210	2.2
E589882		15.2	0.13	1.2	0.057	0.84	2.5	72.7	3.55	1315	0.4	0.99	1.7	92.1	200	2.4
E589883		15.3	0.14	1.2	0.057	0.8	2.5	68	3.93	1430	0.44	1.01	1.8	95.5	220	2.6
E589884		15.75	0.13	1.3	0.058	0.8	3.4	69.1	3.69	1365	0.4	1.03	1.8	93.6	220	2.6
E589885		22.4	0.19	4	0.061	0.95	30.6	85.3	3.27	952	0.5	2.3	4.9	118.5	710	6.3
E589886		18	0.15	3.5	0.043	1.01	26.3	77.7	3.29	922	0.22	2.31	4	116.5	760	4.9
E589887		15.25	0.13	1.1	0.054	1.12	3	95.2	3.31	1225	0.31	0.87	1.7	94.7	210	2.7
E589888		14.75	0.14	0.9	0.056	1.06	2.2	120.5	3.55	1305	0.14	0.78	1.6	90.3	190	2.1



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CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589849		7.7	<0.002	0.15	1.55	39.3	1	0.4	189	0.09	<0.05	0.2	0.39	0.06	<0.1	223
E589850		13.2	<0.002	0.36	0.84	42.1	1	0.4	129	0.1	<0.05	0.2	0.42	0.14	<0.1	239
E589851		9.8	<0.002	0.27	0.67	40.2	1	0.4	102.5	0.08	<0.05	<0.2	0.409	0.11	<0.1	229
E589852		3.1	<0.002	0.33	0.76	38	1	0.4	115.5	0.09	<0.05	<0.2	0.386	0.04	<0.1	218
E589853		1.7	<0.002	0.25	0.79	39.9	1	0.4	145.5	0.09	<0.05	<0.2	0.403	0.03	<0.1	231
E589854		3.1	<0.002	0.4	1.03	39.6	1	0.4	182.5	0.09	<0.05	<0.2	0.387	0.03	<0.1	222
E589855		2.8	<0.002	0.16	0.83	37.6	1	0.4	158	0.08	<0.05	<0.2	0.375	0.02	<0.1	215
E589856		1.9	<0.002	0.21	1.04	40.5	2	0.4	190	0.09	<0.05	<0.2	0.402	<0.02	<0.1	234
E589857		2	0.002	0.17	0.95	39.3	2	0.4	149	0.09	<0.05	<0.2	0.373	0.02	<0.1	211
E589858		5.5	<0.002	0.08	1.24	40.2	1	0.4	331	0.09	<0.05	<0.2	0.381	0.03	<0.1	226
E589859		4.2	<0.002	0.11	1.41	40.4	1	0.4	332	0.08	<0.05	<0.2	0.391	0.04	<0.1	227
E589860		10.8	<0.002	0.1	1.48	39.3	2	0.4	474	0.09	<0.05	<0.2	0.368	0.08	<0.1	221
E589861		11.8	<0.002	0.17	0.95	43.1	1	0.5	251	0.1	<0.05	0.2	0.429	0.11	<0.1	233
E589862		54.6	<0.002	0.16	0.21	2.6	1	0.4	204	0.12	<0.05	1.6	0.086	0.37	0.7	21
E589863		72	<0.002	0.21	0.27	3.5	1	0.5	253	0.12	<0.05	1.7	0.096	0.53	0.8	23
E589864		63.4	<0.002	0.27	0.24	3	1	0.5	285	0.11	<0.05	1.8	0.086	0.46	1	20
E589865		55.1	<0.002	0.34	0.3	2.2	1	0.5	266	0.11	<0.05	1.6	0.075	0.43	0.8	16
E589866		58.1	<0.002	0.11	0.19	2.1	<1	0.4	294	0.12	<0.05	1.8	0.08	0.44	0.9	14
E589867		63.2	<0.002	0.13	0.19	2.4	1	0.5	305	0.13	<0.05	1.9	0.088	0.5	0.9	17
E589868		64.9	<0.002	0.24	0.19	2.3	1	0.4	230	0.11	<0.05	1.8	0.077	0.45	0.9	16
E589869		75.4	0.002	0.18	0.21	2.3	1	0.5	245	0.12	<0.05	1.9	0.084	0.48	0.9	16
E589870		48.4	<0.002	0.27	0.36	5.5	1	0.4	235	0.14	<0.05	1.7	0.108	0.34	0.8	40
E589871		44	<0.002	0.31	0.78	22.6	1	0.5	293	0.15	0.06	0.9	0.271	0.38	0.5	140
E589872		54.1	<0.002	0.27	0.63	25.3	1	0.6	294	0.15	0.05	0.9	0.301	0.48	0.4	150
E589873		52	<0.002	0.38	0.76	28.5	1	0.5	271	0.13	0.08	0.5	0.346	0.38	0.2	174
E589874		61.7	<0.002	0.27	0.59	26.5	1	0.5	212	0.14	<0.05	0.8	0.3	0.42	0.4	152
E589875		41.6	<0.002	0.41	0.6	30.6	1	0.5	191	0.14	0.06	0.6	0.351	0.36	0.2	190
E589876		45.4	<0.002	0.35	0.61	31.4	2	0.5	186	0.12	0.07	0.5	0.373	0.36	0.2	207
E589877		42.3	<0.002	0.27	0.55	29.9	1	0.5	201	0.14	0.05	0.7	0.342	0.38	0.3	185
E589878		58.5	<0.002	0.94	0.5	36.4	2	0.5	157.5	0.11	0.13	0.2	0.429	0.43	0.1	242
E589879		74.5	<0.002	0.61	0.73	38.6	2	0.5	144	0.1	0.05	<0.2	0.437	0.56	<0.1	253
E589880		44	<0.002	0.39	0.55	34	1	0.4	127.25	0.1	<0.05	0.2	0.426	0.34	0.1	246
E589881		39.6	<0.002	0.31	0.7	36.8	2	0.5	135.5	0.1	0.06	<0.2	0.4	0.3	<0.1	232
E589882		45.2	0.002	0.35	0.62	38	2	0.5	143.5	0.12	0.05	0.2	0.401	0.35	0.1	231
E589883		39.8	<0.002	0.25	0.66	38.1	1	0.5	141	0.12	<0.05	0.2	0.423	0.28	0.1	241
E589884		43.4	<0.002	0.35	0.65	39	2	0.5	159.5	0.12	0.06	0.2	0.407	0.31	0.1	228
E589885		54.8	<0.002	0.08	0.41	17.4	2	1.3	484	0.3	<0.05	5.3	0.727	0.41	1.3	137
E589886		48.2	<0.002	0.09	0.33	13.6	1	1	450	0.25	<0.05	4.6	0.712	0.38	1.2	129
E589887		52.9	<0.002	0.24	0.79	37.6	2	0.5	233	0.11	0.06	0.2	0.407	0.41	0.1	228
E589888		53.5	<0.002	0.23	0.79	36.9	2	0.5	227	0.1	<0.05	<0.2	0.388	0.38	<0.1	221



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CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589849		0.8	14.3	77	16.6	0.013	
E589850		1.7	15.6	81	22.9	0.008	
E589851		1.3	13.9	81	20.8	0.006	
E589852		1	14.3	84	18.3	0.004	
E589853		0.5	15	77	19.5	0.002	
E589854		0.5	14.5	79	21.9	0.004	
E589855		0.4	14.1	75	16.9	0.005	
E589856		0.4	15.4	85	23	0.003	
E589857		0.4	14.4	85	14.1	0.006	
E589858		0.2	14.8	80	17.9	0.008	
E589859		0.3	14.9	83	12.4	0.006	
E589860		0.5	14.2	79	11.3	0.010	
E589861		1.1	15.8	92	23.2	0.012	
E589862		0.9	2.3	38	63	0.008	
E589863		1.4	2.5	47	63.2	0.028	
E589864		1	2.4	40	63.4	0.016	
E589865		0.7	1.9	49	58.4	0.027	
E589866		0.6	2	40	60.9	0.011	
E589867		0.6	2.2	45	63.4	0.005	
E589868		0.8	1.9	37	59.5	0.025	
E589869		0.8	2.2	44	62	0.022	
E589870		0.9	3.2	54	55.6	0.044	
E589871		2.6	9.4	77	54	0.032	
E589872		2.3	10.4	70	53.8	0.023	
E589873		2.3	10.6	84	43.7	0.010	
E589874		2.3	10.6	125	51.1	0.050	
E589875		2.6	11.6	79	46.1	0.024	
E589876		3.5	11.9	83	45.9	0.013	
E589877		4.4	10.7	72	47.3	0.015	
E589878		4.3	13	85	31.5	0.031	
E589879		3.2	13.7	91	27.7	0.019	
E589880		2.1	12.5	89	27.9	0.018	
E589881		2.8	14.9	84	28	0.017	
E589882		3.4	14.9	85	30.7	0.013	
E589883		2.6	14.8	94	32.2	0.007	
E589884		3.1	14.7	89	34.1	0.008	
E589885		1	15.1	104	117	0.001	
E589886		1.6	12.2	107	103.5	0.003	
E589887		2.7	14.3	109	28.5	0.011	
E589888		1.8	14.4	69	27.3	0.025	



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North Vancouver BC V7J 2C1
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Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589889	3.84	0.18	7.62	1.5	100	0.39	0.02	8.52	0.13	6.28	43	227	13.3	115.5	7.6
E589890	2.21	0.05	7.48	1.3	650	1.05	0.13	0.75	0.03	11.65	3.3	16	2.37	3.9	1.14
E589891	3.65	0.19	8.44	1.2	160	0.56	0.11	9.22	0.1	7.23	46.9	252	13.5	120	7.79
E589892	4.09	0.16	8.11	1.3	130	0.58	0.06	7.44	0.1	8.89	34.4	215	14.25	90	6.77
E589893	3.55	0.16	7.36	2.1	110	0.61	0.09	7.41	0.11	7.78	31.6	177	17.05	87.7	6.19
E589894	3.46	0.36	8.73	3.4	160	0.78	0.05	7.43	0.21	9.14	44.1	265	19.7	126	8.32
E589895	3.98	0.31	8.01	3.1	90	0.68	0.02	7.56	0.08	6.02	41.2	242	12.25	120	7.76
E589896	0.07	1.3	2.57	5720	280	0.76	65.3	0.77	0.14	28.5	12.3	231	1.05	88.4	2.37
E589897	4.34	0.33	7.83	14.5	80	0.6	0.28	7.77	0.1	5.89	43.9	228	12.75	121	8.07
E589898	3.61	0.29	7.41	6.3	60	0.7	0.04	7.92	0.09	6.06	40	230	11.3	110	7.77
E589899	2.16	0.21	7.92	6.8	70	0.64	0.06	7.68	0.1	5.99	43.1	243	17.75	108.5	7.57
E589900	3.21	0.68	7.79	6.2	70	1.02	0.02	6.94	0.09	6.43	45.1	251	16.85	126	8.01
E589901	2.69	4.39	6.61	8.7	70	0.93	0.09	9.35	0.1	5.9	37.4	178	20.1	133.5	6.84
E589902	2.90	0.56	7.95	4.4	60	0.94	0.02	7.96	0.12	6.83	44.6	252	11.95	97.6	7.91
E589903	3.37	0.35	7.72	4.7	70	0.85	0.01	8.39	0.09	6.14	42	230	14.05	117	7.71
E589904	3.45	0.27	7.22	2.5	70	0.78	0.02	8.71	0.08	5.76	40	216	15.9	102.5	6.76
E589905	5.94	0.28	7.58	3.7	60	0.61	0.19	8.3	0.09	5.74	39.1	222	16.8	99.4	7.42
E589906	3.25	0.15	7.46	2.3	40	0.34	0.02	7.93	0.13	6.06	43.2	216	15.85	101	7.06
E589907	4.15	0.24	7.58	4.9	90	0.29	0.01	8.72	0.1	4.62	46.9	238	12.25	109	6.95
E589908	3.87	0.14	7.29	1.3	50	0.45	0.01	8.25	0.09	4.93	44.2	242	12.6	106.5	6.76
E589909	4.42	0.15	7.8	2.1	60	0.42	<0.01	8.14	0.09	5.44	44.2	264	9.97	126	7.94
E589910	3.65	0.19	7.37	2.6	70	0.36	0.03	6.86	0.11	5.28	48.4	238	13.7	127.5	7.53
E589911	3.86	0.16	7.7	4.6	70	0.28	0.01	8.75	0.13	5.63	43.8	226	9.97	117.5	6.99
E589912	3.95	0.11	7.66	3.4	30	0.15	<0.01	8.69	0.11	4.96	43.9	234	6.82	103	7.06
E589913	4.12	0.11	8.24	3.1	40	0.28	<0.01	8.39	0.12	5.68	51.6	261	7.78	125	8.45
E589914	4.52	0.1	7.65	2.3	30	0.21	<0.01	8.07	0.12	5.14	47.6	241	6.76	114	7.38
E589915	4.53	0.05	6.94	1	30	0.14	<0.01	9.38	0.09	4.16	37.6	229	5.36	99	7.37
E589916	4.20	0.06	7.4	1.7	30	0.22	<0.01	8.64	0.09	5.12	44.7	235	7.24	98.6	7.45
E589917	4.30	0.08	7.67	1.5	40	0.27	<0.01	8.17	0.11	5.09	44.8	238	7.77	117.5	7.12
E589918	4.53	0.09	7.66	2.2	40	0.18	<0.01	8.9	0.13	5.2	47.7	239	8.49	117.5	7.53
E589919	4.42	0.09	7.64	2	30	0.25	0.01	8.01	0.1	5.21	46.8	243	6.94	129.5	7.29
E589920	3.07	0.12	7.6	2.1	20	0.18	<0.01	8.57	0.1	5.42	43.9	247	3.11	103.5	7.55



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Project: 244500

CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589889		15.5	0.14	1.2	0.057	0.83	2.4	94.9	3.92	1450	0.32	0.72	1.7	93.9	200	2.5
E589890		17.15	0.08	2.1	0.009	1.69	6.1	16.5	0.36	147	0.11	3.65	1	6.6	210	6.6
E589891		17.1	0.15	1.2	0.063	1.26	2.9	118	3.92	1430	0.42	0.84	1.9	102.5	220	3
E589892		15.15	0.12	1.4	0.047	1.09	4	107.5	3.54	1240	0.39	1.1	1.8	78.9	220	2.8
E589893		14.3	0.12	1.4	0.043	1.04	3.4	81.4	3.24	1130	0.42	0.87	1.7	71.8	200	2.5
E589894		17.1	0.15	1.2	0.061	1.58	3.7	126	4.53	1365	0.65	0.59	1.9	102.5	250	6.4
E589895		16.2	0.13	1.1	0.059	1.05	2.4	156.5	4.29	1355	0.19	0.32	1.7	101	190	2
E589896		7.03	0.11	0.9	0.024	1.29	14.9	5.8	0.34	239	11.25	0.2	5	15.7	230	26.7
E589897		15.3	0.17	1.1	0.057	0.98	2.2	108.5	4.62	1360	0.33	0.31	1.6	98.4	210	1.8
E589898		14.15	0.16	0.8	0.056	0.88	2.3	77.6	4.52	1340	0.27	0.31	1.5	90.2	210	1.6
E589899		15.2	0.15	1.1	0.06	1.11	2.3	99.9	3.98	1360	0.27	0.49	1.8	95.5	210	1.4
E589900		16.1	0.15	1	0.06	1.22	2.4	119.5	4.82	1445	0.25	0.35	1.6	102.5	230	1.8
E589901		14.25	0.13	0.8	0.059	1.39	2.3	121.5	4.18	1305	0.98	0.27	1.3	80.8	180	2.5
E589902		15.8	0.15	1.1	0.057	1.02	2.5	125	4.49	1285	0.44	0.24	1.6	98.4	210	1.8
E589903		14.85	0.13	0.9	0.059	1.12	2.3	109.5	3.64	1395	0.55	0.23	1.6	93.2	200	1.4
E589904		14.15	0.13	0.9	0.053	1.17	2.2	109.5	3.29	1290	0.8	0.27	1.6	86.1	190	1.2
E589905		15	0.13	1	0.061	1.11	2.2	93.2	3.96	1380	0.28	0.38	1.6	88.5	220	1.7
E589906		15.75	0.15	1.2	0.063	0.66	2.3	83.2	3.84	1360	0.15	0.7	1.8	97	190	1
E589907		15.3	0.14	0.8	0.051	0.59	1.7	70.6	3.61	1310	0.21	0.94	1.8	103.5	200	1.6
E589908		15.2	0.13	0.8	0.049	0.71	1.8	80.1	3.23	1225	0.3	0.75	1.7	97.7	190	0.9
E589909		14.9	0.12	0.7	0.049	0.91	2	82.5	4.1	1360	0.27	0.46	1.6	99.8	220	1
E589910		14.45	<0.05	0.9	0.058	0.73	1.6	122	3.85	1290	0.61	0.52	1.5	106	170	3.4
E589911		14.75	0.05	0.9	0.061	0.51	1.7	86.3	3.45	1285	0.24	0.71	1.6	102.5	190	1.5
E589912		14.95	0.12	0.7	0.049	0.39	1.9	67.3	3.64	1335	0.19	0.96	1.6	99.9	200	0.6
E589913		17.4	0.16	0.8	0.056	0.38	2.1	78.5	4.2	1475	0.29	1.12	2	111.5	230	0.7
E589914		16.2	0.15	0.8	0.05	0.31	1.9	75.6	3.91	1385	0.47	1.23	1.9	104	220	0.9
E589915		12.5	0.11	0.6	0.046	0.32	1.5	51	3.7	1360	0.16	1.02	1.4	86.3	200	<0.5
E589916		15.1	0.13	0.7	0.054	0.39	1.9	62.2	3.8	1355	0.21	1.07	1.7	99.3	200	0.6
E589917		15.2	0.12	0.8	0.054	0.46	1.8	61.8	3.47	1285	0.4	1.15	1.8	98.4	200	0.6
E589918		16.25	0.14	0.9	0.057	0.52	1.9	70.3	3.92	1390	0.24	1.12	1.8	101.5	220	0.6
E589919		16.05	0.14	0.8	0.056	0.35	1.9	59.2	3.75	1320	0.5	1.5	1.8	101	220	0.7
E589920		16.4	0.15	0.9	0.058	0.18	2.1	48.1	3.97	1340	0.23	1.5	1.8	103	210	0.8



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CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589889		44.7	<0.002	0.45	0.78	38.3	2	0.5	156	0.11	0.07	0.2	0.396	0.33	<0.1	227
E589890		54.9	<0.002	0.11	0.13	2.5	1	0.4	391	0.08	<0.05	1.5	0.072	0.27	0.6	20
E589891		62.2	<0.002	0.5	0.59	41	2	0.6	215	0.12	0.08	0.2	0.439	0.43	0.1	250
E589892		52.9	<0.002	0.45	0.55	31.3	1	0.5	170	0.12	0.05	0.4	0.38	0.38	0.2	194
E589893		56.3	<0.002	0.5	0.66	27.8	1	0.5	132.5	0.12	0.06	0.5	0.335	0.42	0.2	182
E589894		68.2	0.002	1.34	1.02	38.6	2	0.5	185.5	0.13	0.25	0.2	0.44	0.91	0.1	254
E589895		53.8	<0.002	0.49	0.89	38.6	2	0.5	163.5	0.11	0.17	<0.2	0.403	0.37	<0.1	242
E589896		60.4	<0.002	0.9	7.15	4.2	5	3.6	58.8	1.23	22.6	5.2	0.12	0.26	1.6	27
E589897		53.7	<0.002	0.58	0.87	38.2	2	0.5	147.5	0.12	0.3	0.2	0.386	0.38	<0.1	240
E589898		43.6	<0.002	0.58	1.04	36.9	1	0.4	126.5	0.1	0.2	<0.2	0.362	0.34	<0.1	231
E589899		63	0.002	0.41	0.93	39.3	2	0.5	121	0.11	0.12	<0.2	0.422	0.53	<0.1	246
E589900		54.5	<0.002	1.08	1.08	39.9	2	0.4	132	0.1	0.43	<0.2	0.386	0.53	<0.1	250
E589901		84.4	0.002	2.89	0.83	32.9	2	0.4	135	0.09	2.96	<0.2	0.303	0.63	<0.1	209
E589902		59.1	<0.002	1.04	0.88	38.6	2	0.4	117.5	0.1	0.33	<0.2	0.381	0.4	<0.1	235
E589903		64.3	<0.002	0.65	3.44	37.9	2	0.4	140.5	0.1	0.17	<0.2	0.401	0.47	<0.1	240
E589904		66.6	0.003	0.63	0.75	35.7	2	0.4	150.5	0.1	0.13	<0.2	0.371	0.52	<0.1	220
E589905		62.5	<0.002	0.51	0.88	36.4	2	0.5	146	0.1	0.15	<0.2	0.396	0.49	0.1	236
E589906		47.3	<0.002	0.17	1.06	40.8	2	0.5	127.5	0.11	<0.05	<0.2	0.386	0.4	<0.1	222
E589907		39.8	<0.002	0.17	0.66	42.8	2	0.5	132	0.11	0.07	0.2	0.396	0.35	<0.1	229
E589908		46.7	0.002	0.26	0.68	42	2	0.4	133.5	0.1	<0.05	0.2	0.387	0.44	<0.1	222
E589909		42.3	0.002	0.45	0.85	41.7	2	0.4	136.5	0.09	0.05	0.2	0.424	0.34	<0.1	252
E589910		54.1	0.002	0.83	0.72	40.7	2	0.4	111	0.1	0.06	0.2	0.366	0.43	0.2	221
E589911		38	<0.002	0.17	0.82	42.1	2	0.4	159	0.1	<0.05	0.2	0.391	0.32	0.1	218
E589912		22.3	<0.002	0.1	0.75	41.6	2	0.4	160	0.1	<0.05	<0.2	0.399	0.19	<0.1	228
E589913		22.3	<0.002	0.16	0.8	47.7	2	0.5	168	0.11	0.05	0.2	0.427	0.19	<0.1	254
E589914		18	<0.002	0.13	0.75	44.8	2	0.5	154.5	0.11	0.05	0.2	0.406	0.15	<0.1	234
E589915		15.5	<0.002	0.08	0.59	34	1	0.4	117	0.11	<0.05	<0.2	0.379	0.13	<0.1	220
E589916		23.3	<0.002	0.13	0.8	41.2	1	0.5	138	0.11	<0.05	0.2	0.396	0.2	<0.1	227
E589917		27.7	<0.002	0.15	0.73	41.1	2	0.4	138.5	0.11	<0.05	0.2	0.407	0.25	<0.1	235
E589918		31	0.002	0.26	0.79	44.9	2	0.5	133	0.1	<0.05	0.2	0.407	0.27	<0.1	235
E589919		20.2	0.002	0.24	0.66	44	2	0.5	129	0.1	0.05	0.2	0.418	0.2	<0.1	242
E589920		7.4	0.002	0.17	0.74	45.4	2	0.5	151.5	0.1	<0.05	0.2	0.405	0.07	<0.1	235



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CERTIFICATE OF ANALYSIS TB07137051

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589889		3.3	14.5	84	31.2	0.030	
E589890		2.1	1.6	31	64.3	0.003	
E589891		4.1	15.2	85	34.2	0.015	
E589892		3.3	12.2	80	41.6	0.010	
E589893		3.7	11.3	78	38.7	0.012	
E589894		7.3	13.5	111	30.7	0.032	
E589895		8.7	14.1	81	30.7	0.022	
E589896		134	6.2	28	8.1	>10.0	NSS
E589897		8.1	14.4	95	28.3	0.031	
E589898		6.5	13.8	82	21.4	0.017	
E589899		6.2	14.1	85	27.6	0.018	
E589900		7.9	14.1	95	27.3	0.063	
E589901		8.5	14.3	64	21.3	0.338	
E589902		4.8	15.1	94	28.8	0.070	
E589903		5.7	14.5	79	26.5	0.032	
E589904		8.2	13.5	71	26.2	0.047	
E589905		5.9	13.9	83	25.4	0.031	
E589906		4	15.2	78	30.3	0.026	
E589907		1.9	15.1	77	23.9	0.013	
E589908		3.4	15.4	75	23.3	0.026	
E589909		3.8	15	83	19	0.008	
E589910		6	14.7	81	24.8	0.017	
E589911		1.8	15.5	75	29.2	0.011	
E589912		1.1	14.5	78	22.6	0.016	
E589913		1	17	88	25.9	0.017	
E589914		0.8	15.7	81	25.6	0.011	
E589915		0.5	12.5	79	16.6	0.016	
E589916		0.6	15.1	81	20.7	0.016	
E589917		0.7	15.4	81	24.8	0.009	
E589918		0.7	16.1	82	25.2	0.010	
E589919		0.8	15.7	83	25.8	0.006	
E589920		0.9	16.1	80	23.8	0.009	



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CERTIFICATE OF ANALYSIS TB07137051

Method	CERTIFICATE COMMENTS
ALL METHODS ME-MS61	NSS is non-sufficient sample. REE's may not be totally soluble in this method.



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CERTIFICATE TB07140708

Project: 244500

P.O. No.:

This report is for 104 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

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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 TB07140708

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589921		2.80	0.05	6.87	0.5	590	0.92	0.07	0.9	0.02	11.5	3.3	14	2.28	8.6	0.96
E589922		2.99	0.14	7.65	<5	30	0.23	<0.01	10.25	0.1	5.22	45.5	209	5.94	113.5	7.22
E589923		4.02	0.12	7.87	1.1	40	0.19	0.01	7.58	0.12	5.8	49.6	232	7.65	114	7.64
E589924		4.49	0.17	8.08	1.9	40	0.2	<0.01	8.5	0.1	5.65	51.3	226	9.43	109.5	7.57
E589925		3.99	0.16	8.13	1.6	30	0.23	0.03	8.85	0.09	5.45	49.6	222	6.65	90.6	6.69
E589926		4.29	0.3	8.37	4.1	60	0.53	0.08	8.29	0.12	6.15	54.6	242	17.1	130.5	7.74
E589927		2.46	1.67	7.49	8.3	140	0.95	0.27	7.28	0.1	4.84	52.5	214	14.4	227	7.52
E589928		4.50	0.35	8.12	7.2	140	0.66	0.33	7.68	0.12	5.56	55	239	19.05	156	7.73
E589929		4.23	0.14	7.7	1.6	50	0.22	0.07	7.78	0.17	5.48	51.3	211	7.12	83.4	8.11
E589930		2.71	0.2	7.98	1.8	20	0.23	0.07	7.59	0.16	5.82	53.6	240	3.74	147.5	8.3
E589931		4.31	0.12	7.25	<5	20	0.18	0.01	10	0.09	5.07	46.9	205	3.38	115	7.09
E589932		4.54	0.15	8.28	2.5	20	0.19	0.05	8.32	0.11	5.83	52	248	3.12	135.5	7.75
E589933		4.80	0.14	8.24	4.9	40	0.13	0.05	8.66	0.1	5.72	51.6	233	3.69	110.5	7.92
E589934		4.58	0.15	8.37	4	230	0.33	0.07	8.01	0.1	6.01	54.5	254	11.75	135.5	7.98
E589935		2.79	0.18	8.42	1.8	510	0.6	0.1	7.68	0.13	5.71	53.9	259	18.25	162.5	8
E589936		2.61	0.2	7.77	2.4	170	0.46	0.1	8.49	0.12	5.34	48.4	215	17.4	119	7.5
E589937		2.82	0.13	7.63	3.8	90	0.53	0.04	8.49	0.1	16.2	44.4	245	5.87	98.8	7.11
E589938		3.88	0.22	6.82	6.9	60	1.04	0.06	7.58	0.15	31.9	45.6	380	4.66	83.4	7.6
E589939		4.31	0.21	7.33	9.6	40	0.74	0.07	7.27	0.09	23.5	49	385	4.55	102	7.97
E589940		4.34	0.16	7.89	5.3	40	0.5	0.03	7.06	0.12	5.7	46.4	251	3.48	115.5	8.04
E589941		3.82	0.18	7.44	6.4	60	0.94	0.07	7.27	0.11	19.9	46.5	328	7.35	104	7.93
E589942		0.07	1.82	2.81	6140	290	0.74	74.4	0.86	0.19	30.5	10.3	272	1.12	99.9	2.6
E589943		2.34	0.25	7.74	14.6	130	0.93	0.5	7.45	0.09	30.8	40.5	331	15.1	143.5	7.31
E589944		4.00	0.19	7.64	8.3	320	0.73	0.14	8.19	0.11	12.05	46.9	269	19.05	113.5	8.18
E589945		4.19	0.15	7.9	6	450	0.45	0.04	8.95	0.11	5.58	46.4	225	20.6	123.5	7.69
E589946		3.81	0.19	7.92	6	240	0.54	0.06	8.39	0.16	5.33	47.9	231	17.5	114	7.6
E589947		3.33	0.29	7.59	5.5	200	0.69	0.05	7.87	0.1	5	43.5	237	19.6	111	6.88
E589948		3.79	0.29	8.03	6.7	140	0.66	0.02	8.48	0.1	5.41	46.2	246	19.15	123	7.51
E589949		2.50	0.6	8.15	13.1	120	0.65	0.03	8.71	0.08	5.43	45	234	19.2	115.5	7.36
E589950		2.82	1.15	7.1	12.8	100	0.62	0.09	5.54	0.07	4.37	44.2	217	19.3	89.8	6.97
E589951		3.26	0.21	8.32	10.2	100	0.75	0.01	7.9	0.11	5.75	46.6	244	17.25	126.5	7.46
E589952		4.45	0.25	7.6	5.3	70	0.86	0.02	7.95	0.11	5.1	48	237	12.65	119	7.94
E589953		3.94	0.18	7.83	7.3	60	0.69	0.02	8.15	0.1	5.27	47.8	242	8.14	123.5	8.37
E589954		4.30	0.17	7.88	5	60	0.47	0.08	8.62	0.11	5.47	49.1	245	7.51	120.5	8.4
E589955		3.82	0.16	8.01	4.3	20	0.31	0.02	9.82	0.13	5.24	44.4	241	4.27	113	7.79
E589956		4.33	0.18	7.84	2.5	10	0.2	0.01	7.72	0.12	5.41	47.9	234	3.88	128.5	8.04
E589957		3.84	0.15	7.49	2.7	40	0.33	0.03	7.99	0.08	4.81	42.4	224	4.8	108.5	7.13
E589958		4.14	0.13	7.22	4.6	70	0.31	0.02	8.86	0.08	5	40.8	214	7.85	107	6.55
E589959		3.84	0.17	8.23	<5	50	0.25	0.01	10.25	0.11	5.35	44.3	241	6.2	131	7.33
E589960		3.31	0.16	7.41	6.1	20	0.25	0.02	9.44	0.07	5.29	46.3	222	5.58	134	6.83



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CERTIFICATE OF ANALYSIS	TB07140708
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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	
E589921	18.05	<0.05	2.1	0.008	1.44	5.7	20.3	0.36	143	0.51	3.32	1.2	7.1	210	5.9	
E589922	14.8	0.1	0.8	0.053	0.32	1.9	92.8	3.98	1480	0.37	1.23	1.5	98.4	210	0.8	
E589923	16.05	0.11	0.9	0.048	0.4	2.2	73.6	3.98	1370	0.43	1.49	1.7	110.5	200	1.1	
E589924	16.05	0.09	0.9	0.055	0.5	2.1	87.2	4.09	1445	0.41	1.48	1.7	111.5	220	1.1	
E589925	15.45	0.1	0.8	0.055	0.3	2	53	3.56	1385	0.19	1.93	1.7	109.5	250	1.3	
E589926	16.25	0.1	0.9	0.064	0.95	2.3	125	4.37	1395	0.18	0.84	1.8	116	220	1.8	
E589927	16.25	0.12	0.6	0.051	1.73	1.8	184.5	3.45	1035	0.71	0.32	1.5	104	190	2.1	
E589928	18.15	0.11	0.8	0.064	1.25	2.1	136	4.21	1370	0.51	0.77	1.8	116	220	2.3	
E589929	15.95	0.12	0.7	0.057	0.35	2	64	4.59	1430	0.15	1.19	1.7	112	190	1.5	
E589930	16.3	0.12	0.7	0.057	0.17	2.1	71.5	5.1	1500	0.22	1.43	1.7	113	200	1.7	
E589931	14.05	0.11	0.5	0.051	0.17	1.9	64.8	3.98	1320	0.18	0.74	1.5	97.1	190	1.1	
E589932	16.6	0.13	0.7	0.056	0.14	2.2	70.7	4.21	1425	0.19	1.35	1.8	113.5	230	1.4	
E589933	16	0.09	0.6	0.058	0.18	2.1	85.6	4.25	1445	0.2	1.37	1.8	111.5	210	1.3	
E589934	16.55	0.12	0.5	0.056	0.37	2.2	85.3	4.07	1395	0.25	1.39	1.9	117.5	230	1.6	
E589935	16.65	0.11	0.6	0.061	0.55	2.1	67.3	3.88	1310	0.33	1.76	1.8	112.5	220	1.9	
E589936	15.25	0.11	0.8	0.056	0.35	2	59.5	3.84	1335	0.5	1.88	1.7	104.5	200	1.7	
E589937	14.7	0.11	1.3	0.056	0.22	7.4	64.3	4.11	1320	0.29	1.97	2.5	90.2	460	2	
E589938	15.05	0.16	1.9	0.057	0.2	15.1	42.7	5.58	1500	0.52	1.93	3.5	103.5	890	4.6	
E589939	15.2	0.17	1.6	0.063	0.14	10.8	59	5.59	1470	0.45	2.2	2.9	118.5	660	3.3	
E589940	15.85	0.15	0.8	0.055	0.11	2.2	50.6	4.35	1450	0.28	2.61	1.6	101	210	2.3	
E589941	15.45	0.15	1.4	0.056	0.19	9.3	62.2	5.22	1520	0.56	2.31	2.6	112	560	3.5	
E589942	7.48	0.13	0.9	0.025	1.35	15.3	5.8	0.37	265	11.75	0.23	5.3	17.3	240	25.7	
E589943	16	0.17	2	0.055	0.34	14.9	58.5	4.49	1300	0.68	2.28	3.7	95.4	860	4.1	
E589944	15.4	0.15	1.1	0.054	0.8	5.3	82.5	5.01	1380	0.34	1.13	2.1	110	370	2.3	
E589945	15.4	0.15	0.9	0.055	1.43	2.1	96.9	3.98	1450	0.25	0.41	1.6	102.5	190	1.5	
E589946	15.5	0.15	0.8	0.055	1.3	2.1	89.1	3.98	1460	0.14	0.38	1.6	104	220	1.4	
E589947	15.1	0.13	0.8	0.05	1.41	2	105	3.52	1300	0.27	0.22	1.5	94.7	230	1.4	
E589948	15.6	0.15	0.9	0.055	1.32	2.1	104.5	3.99	1380	0.24	0.24	1.6	98.5	200	1.5	
E589949	15.25	0.13	0.8	0.057	1.37	2.1	129.5	3.91	1290	0.29	0.22	1.6	103.5	200	1.7	
E589950	13.65	0.13	0.9	0.038	1.59	1.6	159.5	4.03	795	1.39	0.26	1.3	89.7	170	1.7	
E589951	15.9	0.12	0.9	0.054	1.33	2.2	122.5	4.6	1320	0.19	0.35	1.6	105	210	2	
E589952	15.05	0.14	0.8	0.052	0.95	2	97	4.46	1410	0.69	0.35	1.5	103.5	200	1.6	
E589953	15.65	0.15	0.7	0.056	0.72	1.9	93.6	4.88	1420	0.47	0.29	1.5	105	230	1.3	
E589954	15.85	0.14	0.7	0.059	0.62	2.1	65.9	4.32	1460	0.22	0.52	1.6	108	210	1.2	
E589955	15.45	0.16	0.7	0.056	0.22	2	103	4.33	1630	0.2	1.04	1.7	101.5	220	0.8	
E589956	15.5	0.15	0.8	0.056	0.11	2	55.4	4.3	1380	0.18	1.75	1.7	102.5	210	1.1	
E589957	14.2	0.14	0.7	0.056	0.23	1.8	83.1	3.76	1330	0.32	1.15	1.5	94	190	1.2	
E589958	14.05	0.15	0.7	0.05	0.41	1.9	98.4	3.63	1310	0.19	0.95	1.4	83.9	200	1.3	
E589959	15.85	0.12	0.8	0.059	0.3	2.1	119.5	3.64	1460	0.21	1.31	1.6	94.4	230	1.8	
E589960	14.75	0.12	0.8	0.051	0.15	2	98.5	3.09	1270	0.19	1.36	1.6	94.5	190	1.9	



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589921		54.7	<0.002	0.06	0.14	3	1	0.4	378	0.09	<0.05	1.5	0.07	0.3	0.6	19
E589922		16.6	<0.002	0.26	0.68	40.7	2	0.4	131	0.1	<0.05	0.2	0.366	0.13	<0.1	227
E589923		19.4	0.002	0.29	0.63	45.3	2	0.4	141.5	0.11	<0.05	0.2	0.408	0.19	0.1	242
E589924		28.2	0.002	0.39	0.63	44.5	2	0.4	144	0.11	<0.05	0.2	0.41	0.27	<0.1	245
E589925		16.4	<0.002	0.25	0.48	44.7	2	0.4	141	0.11	0.06	0.2	0.409	0.17	<0.1	245
E589926		60.3	<0.002	0.58	0.65	48.8	3	0.5	116.5	0.11	0.11	0.2	0.441	0.5	<0.1	260
E589927		81.7	0.002	2.87	0.63	41.1	3	0.4	65.4	0.09	0.93	<0.2	0.371	0.64	<0.1	261
E589928		65.9	0.003	0.7	0.74	46.4	2	0.6	113.5	0.11	0.19	0.2	0.42	0.62	<0.1	265
E589929		13.2	<0.002	0.16	0.58	43.2	1	0.4	110	0.11	0.08	0.2	0.405	0.15	<0.1	247
E589930		7.2	<0.002	0.14	0.59	47.6	2	0.4	139.5	0.11	0.07	0.2	0.417	0.08	<0.1	253
E589931		9.2	0.002	0.1	1.15	39.8	2	0.4	281	0.09	<0.05	<0.2	0.352	0.06	<0.1	222
E589932		6.1	0.002	0.18	1.03	46.3	2	0.4	258	0.1	0.07	0.2	0.417	0.05	<0.1	256
E589933		8.3	<0.002	0.12	1.12	44.8	2	0.5	225	0.11	0.08	0.2	0.42	0.08	<0.1	252
E589934		17.8	<0.002	0.33	0.98	48.8	2	0.5	151.5	0.12	0.1	0.2	0.437	0.18	<0.1	262
E589935		27.2	0.003	0.55	0.87	47.1	2	0.5	111	0.12	0.18	0.2	0.45	0.27	<0.1	275
E589936		21.2	<0.002	0.52	0.67	42	2	0.5	137.5	0.11	0.12	<0.2	0.401	0.21	<0.1	240
E589937		10.2	<0.002	0.22	1	38.2	1	0.6	247	0.15	0.06	1.2	0.411	0.1	0.3	233
E589938		7.8	<0.002	0.1	1.38	36.1	1	0.8	455	0.21	<0.05	2.9	0.429	0.09	0.7	236
E589939		5.2	<0.002	0.21	1.43	40.8	1	0.6	414	0.18	0.05	2	0.412	0.06	0.5	237
E589940		3.8	<0.002	0.33	1.26	42.6	1	0.4	301	0.1	<0.05	0.2	0.393	0.04	0.1	246
E589941		7.5	<0.002	0.45	0.74	39.2	1	0.6	244	0.16	0.06	1.6	0.395	0.1	0.3	231
E589942		68.4	0.002	0.93	7.26	5.1	5	3.7	65.5	1.38	24	5.6	0.125	0.29	1.5	29
E589943		18	<0.002	0.64	0.63	32.4	2	0.9	180.5	0.22	0.19	2.7	0.396	0.18	0.6	205
E589944		44.2	<0.002	0.45	0.86	41.2	1	0.5	116.5	0.13	0.1	0.8	0.389	0.42	0.2	240
E589945		78.3	<0.002	0.4	1.1	42.6	2	0.4	94.8	0.1	0.07	0.2	0.38	0.62	0.1	243
E589946		66.1	<0.002	0.26	0.84	44.7	1	0.4	104.5	0.1	0.06	0.2	0.394	0.55	<0.1	249
E589947		72.9	<0.002	0.58	0.7	40.5	1	0.4	93.4	0.09	0.15	0.2	0.363	0.59	0.1	231
E589948		68.9	<0.002	0.68	0.76	43.2	1	0.4	102.5	0.1	0.13	0.2	0.388	0.59	0.1	249
E589949		68.9	<0.002	0.57	1.15	44.6	2	0.4	122.5	0.1	0.32	0.2	0.386	0.55	<0.1	249
E589950		77.6	0.002	1.89	0.84	37.7	1	0.4	30.7	0.08	0.74	0.2	0.313	0.54	<0.1	218
E589951		65.3	<0.002	0.6	1.36	46.2	1	0.4	126.5	0.1	0.06	0.2	0.392	0.58	<0.1	260
E589952		53.6	<0.002	0.97	1.07	41.4	2	0.4	152.5	0.09	0.08	0.2	0.344	0.42	0.1	232
E589953		38.5	<0.002	0.61	0.99	45	2	0.4	155	0.09	0.06	0.2	0.345	0.32	<0.1	251
E589954		30.1	<0.002	0.35	0.9	45.3	1	0.5	196.5	0.1	<0.05	<0.2	0.369	0.25	<0.1	248
E589955		10	<0.002	0.19	0.68	44.1	1	0.4	163	0.1	<0.05	0.2	0.395	0.1	<0.1	247
E589956		4.6	<0.002	0.22	0.64	44.6	1	0.4	162.5	0.11	<0.05	0.2	0.397	0.06	<0.1	248
E589957		11.5	<0.002	0.28	0.65	41.3	1	0.4	169	0.09	<0.05	<0.2	0.354	0.11	<0.1	228
E589958		23.4	<0.002	0.19	0.85	39.8	1	0.4	184.5	0.09	<0.05	<0.2	0.342	0.2	<0.1	226
E589959		15.4	0.002	0.17	0.97	45.2	1	0.4	215	0.1	0.05	0.2	0.411	0.14	<0.1	261
E589960		7.6	<0.002	0.33	0.65	41.4	2	0.4	152	0.09	0.07	0.2	0.369	0.09	<0.1	232



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589921		2.1	1.9	35	71	0.001	
E589922		0.8	15	78	24.3	0.006	
E589923		1.5	15.8	82	25.7	0.225	
E589924		1.8	15.8	83	26.3	0.072	
E589925		1.8	16.2	82	24.5	0.013	
E589926		2.2	17.7	90	28	0.104	
E589927		5.8	14.4	76	19.3	0.083	
E589928		2.5	15.6	90	24.1	0.027	
E589929		1.4	15.8	93	19.6	0.012	
E589930		0.7	16.1	89	21.8	0.022	
E589931		0.5	14.4	73	13.5	0.025	
E589932		0.7	16.8	83	20	0.022	
E589933		0.9	16.5	79	18.6	0.028	
E589934		1.4	17.4	86	15.8	0.013	
E589935		1.8	16.9	85	17.3	0.006	
E589936		2.1	15.5	80	21.5	0.006	
E589937		1.3	16.4	79	42.5	0.007	
E589938		0.7	17.3	94	66.5	0.011	
E589939		0.7	16.9	86	53.4	0.007	
E589940		1.3	14.7	84	19.6	0.011	
E589941		2	16.5	85	46.9	0.011	
E589942		136	6.8	32	8.6	>10.0	18.50
E589943		1.8	18.2	79	69.7	0.016	
E589944		2.7	15.7	86	35.4	0.025	
E589945		2.3	15.2	80	25	0.018	
E589946		1.9	15.3	89	24.8	0.026	
E589947		3.1	14.1	78	28.5	0.064	
E589948		3.8	14.9	81	25.9	0.055	
E589949		3.9	15.7	82	25	0.042	
E589950		5.3	11.6	64	25.7	0.105	
E589951		3.8	15.8	82	25.8	0.026	
E589952		7	14.3	80	25.7	0.077	
E589953		4.3	15.4	85	23.3	0.053	
E589954		10.1	15.7	92	20.8	0.008	
E589955		2.5	15.1	80	20.7	0.009	
E589956		1	15.6	82	24.7	0.006	
E589957		1.4	13.6	71	22.7	0.004	
E589958		1.6	13.6	66	21.2	0.008	
E589959		2.1	15.2	81	24.3	0.006	
E589960		2.3	14.9	68	24.2	0.004	



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ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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CERTIFICATE OF ANALYSIS TB07140708

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589961	3.18	0.16	8.26	3.7	40	0.21	0.01	9.02	0.13	5.88	51.6	246	6.37	132.5	8.06
E589962	3.82	0.12	7.27	<5	50	0.23	0.01	10.45	0.08	4.7	42.2	219	6.13	113.5	7.29
E589963	4.29	0.16	8.27	4.9	100	0.36	0.08	8.92	0.06	6.07	52.6	231	10.4	129	7.64
E589964	7.06	0.2	6.27	<5	120	0.34	0.02	11.45	0.11	5.04	37	164	7.83	93.5	5.94
E589965	3.00	0.21	7.77	6.7	100	0.58	0.03	9.23	0.09	5.49	43.7	225	10.05	112.5	6.5
E589966	2.14	0.2	7.83	3.5	90	0.66	0.07	8	0.09	5.97	42.1	236	10	116	7.09
E589967	2.38	0.29	7.38	3.1	80	0.59	0.21	4.64	0.06	5.28	44.8	242	7.69	120	7.84
E589968	2.85	0.19	6.17	5.2	120	0.41	0.18	6.07	0.08	4.22	37.3	176	9.06	91	6.45
E589969	1.72	0.25	5.91	5.5	130	0.48	0.22	9.99	0.08	4.78	36	178	10.55	115.5	7.07
E589970	2.14	0.12	7.12	1.8	760	1.08	0.3	0.72	0.03	12.3	3.8	17	2.96	9	1.12
E589971	2.86	0.53	6.14	10.5	90	0.42	0.22	4.89	0.15	6.17	37.8	83	6.58	249	8.68
E589972	2.49	1.33	6.18	32.8	160	0.58	0.12	2.91	0.08	8.62	56.3	79	9.28	156.5	8.9
E589973	2.94	0.14	7.17	30.9	360	0.92	0.08	2.62	0.05	25	7.2	30	24.8	18.3	1.79
E589974	2.77	0.18	7.49	39.5	450	1.02	0.17	2.2	0.03	31.4	6.8	38	34	11.7	1.68
E589975	3.94	0.7	7.65	33.5	330	0.91	0.71	7.56	0.14	11.75	31.8	161	33	96.5	5.92
E589976	4.23	0.7	7.9	31.8	300	0.9	0.46	5.9	0.12	15.1	24.3	145	22	74.3	5.19
E589977	3.71	0.28	7.71	18.2	390	1.04	0.4	5.36	0.08	28.8	18.8	98	19.15	55.5	4.06
E589978	2.86	0.06	7.1	5.4	780	1.25	0.13	2.33	0.04	48	7.8	37	22.8	14.4	1.82
E589979	4.07	0.06	7.49	1.3	780	1.13	0.04	2.54	0.03	50.6	8.5	40	31.6	18.1	2.06
E589980	3.58	0.07	7.96	1	730	1.2	0.05	2.36	0.03	51.9	9	38	27.9	22.9	2.07
E589981	3.58	0.04	8.16	1	810	1.32	0.04	2.24	0.03	53.8	8.1	36	28.6	18.6	1.87
E589982	4.77	0.06	7.8	0.4	760	1.16	0.03	2.26	0.04	50.8	7.7	36	26.6	18.5	1.91
E589983	4.23	0.06	7.2	0.7	700	1.08	0.04	2.77	0.04	45.9	8.3	36	25	18.8	1.92
E589984	1.83	0.27	7.97	10.5	510	1.2	0.26	7.56	0.08	21.2	28.2	160	30.6	78.5	5.03
E589985	4.46	0.21	8.22	4.4	370	0.46	0.13	7.7	0.11	6.96	47.3	230	27.4	113.5	7.93
E589986	4.11	0.22	7.9	3.8	230	0.32	0.21	8.2	0.14	10.35	40.3	158	19.2	124.5	7.77
E589987	5.58	0.17	8.54	2.7	120	0.2	0.14	9.16	0.13	6.37	46.9	230	6.51	136.5	8.53
E589988	5.68	0.15	8.35	1.6	80	0.21	0.11	8.62	0.13	6.21	44.8	209	4.96	127	8.23
E589989	5.80	0.15	8.52	1.8	30	0.14	0.04	8.84	0.12	6.33	47.5	227	3.11	135	8.41
E589990	5.43	0.15	8.13	1.8	70	0.21	0.06	8.28	0.11	6.05	44.6	257	6.41	127	8.04
E589991	5.73	0.1	8.2	4	60	0.25	0.16	8.56	0.12	5.85	44.9	216	4.81	82.7	8.02
E589992	5.49	0.19	8.23	2.8	90	0.32	0.32	8.87	0.11	6.19	44.7	230	5.8	117.5	7.85
E589993	5.78	0.19	8.85	3.4	80	0.34	0.12	8.71	0.13	6.92	48.5	243	5.25	138	8.6
E589994	5.55	0.15	8.55	3.2	20	0.23	0.03	8.15	0.16	6.39	43.8	230	5.66	117	7.25
E589995	4.88	0.12	8.28	5.4	20	0.21	0.03	9.54	0.11	6.28	43.5	204	1.24	129.5	6.88
E589996	5.29	0.11	8.85	<5	20	0.21	0.02	10.75	0.12	6.62	46	245	1.72	142	8.19
E589997	4.86	0.11	8.73	3.7	20	0.19	0.03	8.63	0.16	6.33	45.7	230	1.42	123	7.55
E589998	5.19	0.13	7.48	2.6	30	0.19	0.07	8.8	0.11	5.88	42.5	207	16.4	130.5	7.43
E589999	3.83	0.17	8.92	1.4	100	0.17	0.16	8.32	0.13	6.44	51.6	264	47.7	138	9.33
E590000	1.33	0.17	8.14	4.1	140	0.29	0.09	9.78	0.13	6	45.5	228	18.8	136.5	7.74



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

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CERTIFICATE OF ANALYSIS TB07140708

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589961		17	0.16	0.9	0.062	0.27	2.2	53.4	4.2	1550	0.21	1.3	1.8	111	220	0.7
E589962		13.6	0.13	0.8	0.048	0.32	1.8	53.6	3.52	1460	0.26	0.98	1.4	92.9	200	0.7
E589963		16.8	0.15	1	0.061	0.6	2.3	89.4	4.18	1520	0.27	0.77	1.8	106	210	1.4
E589964		12.15	0.12	0.8	0.045	0.57	2.2	94.8	4.61	1400	0.24	0.43	1.2	72.2	160	1.8
E589965		16.1	0.14	1	0.054	0.71	2.1	98.6	3.61	1470	0.24	0.7	1.6	96.8	220	2.5
E589966		15.7	0.13	1	0.053	0.67	2.3	81.2	3.98	1500	0.57	0.73	1.6	98.1	220	3
E589967		15.25	0.16	0.9	0.051	0.58	1.9	139.5	6.2	1460	0.41	0.51	1.4	97.2	210	2.5
E589968		12.05	0.12	0.7	0.045	0.85	1.6	93.4	5.25	1430	0.23	0.39	1.2	69.1	170	2.2
E589969		11.8	0.12	0.5	0.048	0.9	1.9	71.3	4.83	1530	0.33	0.46	1.2	53.8	180	2.7
E589970		18.8	0.1	2	0.012	1.71	6.5	22	0.42	150	0.14	3.18	1.2	8.6	190	6.4
E589971		13.9	0.14	0.9	0.06	0.59	2.3	120	6.09	1510	0.31	0.27	1.2	48	250	2.4
E589972		19	0.16	1.6	0.053	0.86	3.1	184.5	6.12	1430	0.82	0.24	1.6	67.3	310	3.4
E589973		19.4	0.09	2.3	0.016	1.47	11.7	75.9	1.34	400	0.84	2.3	1.8	22.1	310	12.5
E589974		20.6	0.06	2.4	0.023	1.72	14.6	95.8	1.18	313	1.25	2.15	1.7	21.1	330	14.8
E589975		15.45	0.09	1.5	0.045	1.33	5.1	93.9	3.44	1100	4.36	1.28	1.9	76.8	230	15.9
E589976		15.9	0.06	1.5	0.037	1.13	6.9	89	3.1	958	6.52	1.83	1.8	63.8	270	18.4
E589977		18.05	0.08	2.2	0.046	1.24	13.4	99.8	2.79	837	2.63	2.23	2.3	47.6	360	19.3
E589978		20.1	0.09	2.9	0.018	1.82	23.3	81.4	1.07	294	0.86	1.64	2.8	28.1	510	14.4
E589979		21.5	0.09	3.1	0.019	1.7	23.9	78.3	1.03	318	0.34	1.95	2.9	30.3	550	12.8
E589980		22	0.09	3.2	0.025	1.77	24.8	79.2	1.04	311	0.35	2.25	2.6	29.1	570	13.1
E589981		23.6	0.08	3.4	0.024	2.16	26.2	88.4	0.91	283	0.17	2.22	2.6	27.8	590	11.8
E589982		21.6	0.1	3.3	0.019	1.91	24.6	93.2	0.93	292	0.21	2.32	2.6	27.8	560	10.1
E589983		20.4	0.08	3.1	0.017	1.62	21.1	94.1	1.1	317	0.98	2.39	2.6	28.2	530	11.6
E589984		17.15	0.09	1.7	0.034	1.54	9.6	101	3.55	1070	2.12	1.53	2	67	290	24.1
E589985		15.9	0.09	1.1	0.056	1.18	2.5	71.3	4.1	1315	0.37	0.98	1.8	103.5	220	7.2
E589986		16.7	0.1	1.5	0.055	0.75	4.2	66.3	4.37	1385	0.46	1.4	2.1	77.2	290	5.3
E589987		16.15	0.1	1	0.06	0.4	2.2	45.3	4.38	1440	0.28	0.99	1.8	107	250	2.9
E589988		15.95	0.08	0.9	0.055	0.3	2.2	47	4.64	1430	0.43	1.14	1.8	105.5	240	2.2
E589989		16.3	0.08	0.8	0.057	0.14	2.2	49.9	4.38	1500	0.23	1.98	1.8	109	260	1.4
E589990		15.6	0.08	0.8	0.058	0.26	2.1	48.4	4.15	1375	0.34	1.35	1.7	106.5	230	1.7
E589991		15.6	0.09	1	0.058	0.24	2.1	56	4.53	1420	0.26	0.85	1.7	108.5	230	3
E589992		15.55	0.1	0.9	0.055	0.45	2.2	69.7	4.17	1345	0.33	0.79	1.7	109	230	2
E589993		17.5	0.1	1	0.062	0.32	2.4	75.5	4.57	1470	0.72	0.97	1.9	113.5	240	2.4
E589994		16.95	0.08	0.7	0.06	0.13	2.3	43.4	3.39	1475	0.16	2.81	1.8	98.5	240	1.3
E589995		16.25	0.07	0.7	0.059	0.09	2.2	38.4	3.3	1490	0.19	2.71	1.8	95.6	240	0.9
E589996		17.7	0.08	0.7	0.063	0.09	2.3	56.8	3.94	1940	0.23	2.45	2	102	260	0.9
E589997		17	0.08	0.8	0.063	0.09	2.2	43.5	3.75	1625	0.29	2.77	1.9	104.5	240	1.1
E589998		15.1	0.08	0.7	0.054	0.2	2.1	62.4	3.66	1300	0.35	1.52	1.6	94.9	220	1.4
E589999		16.4	0.1	0.8	0.061	0.46	2.2	71.1	4.95	1530	0.18	1.76	1.9	124.5	260	1.8
E590000		15.6	0.09	0.9	0.06	0.55	2.1	85.3	3.78	1395	0.46	1.62	1.7	100.5	220	1.7



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

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CERTIFICATE OF ANALYSIS TB07140708

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589961		13.3	<0.002	0.24	0.88	49	1	0.5	174	0.1	<0.05	0.2	0.409	0.12	<0.1	258
E589962		15.1	<0.002	0.38	0.57	39.5	1	0.4	181	0.09	<0.05	<0.2	0.355	0.14	<0.1	231
E589963		33.4	<0.002	0.48	0.89	48.5	2	0.5	240	0.11	0.05	0.2	0.391	0.26	0.1	256
E589964		28.4	<0.002	0.47	0.63	36.1	1	0.3	163.5	0.07	<0.05	<0.2	0.285	0.2	0.2	198
E589965		34.4	<0.002	0.44	1.24	45.1	2	0.5	306	0.09	0.06	0.2	0.373	0.27	0.1	241
E589966		30.5	0.002	0.74	1.23	44	2	0.4	279	0.1	0.06	0.2	0.36	0.25	0.1	233
E589967		21.3	<0.002	0.98	0.58	46	2	0.5	146.5	0.09	0.14	0.2	0.334	0.21	<0.1	246
E589968		35.4	<0.002	0.81	0.73	36.7	1	0.4	119.5	0.07	0.1	<0.2	0.291	0.26	<0.1	209
E589969		38.8	<0.002	1.68	1.16	38.1	1	0.3	190.5	0.07	0.12	<0.2	0.276	0.27	<0.1	199
E589970		69	<0.002	0.12	0.4	3.5	1	0.5	359	0.09	<0.05	1.7	0.072	0.38	0.7	23
E589971		23.4	<0.002	2.65	0.63	41.2	2	0.4	94.6	0.08	0.21	0.2	0.326	0.17	0.1	260
E589972		29.7	<0.002	3.34	0.83	44.7	2	0.5	104.5	0.11	0.66	0.4	0.365	0.3	0.1	292
E589973		54	<0.002	0.75	0.48	5.4	1	0.5	327	0.14	0.05	2.8	0.112	0.51	1	38
E589974		70.8	<0.002	0.74	0.48	5	2	0.5	298	0.16	0.06	3.3	0.114	0.61	1.3	34
E589975		56.6	<0.002	0.65	1.15	31.4	2	0.4	393	0.14	0.24	0.9	0.341	0.53	0.9	183
E589976		43	<0.002	0.64	0.97	25.6	2	0.4	438	0.13	0.15	1.3	0.306	0.36	0.7	158
E589977		49.9	<0.002	0.51	0.8	19.3	2	0.6	396	0.18	0.05	2.9	0.252	0.38	1	114
E589978		65.7	<0.002	0.04	0.6	5.5	1	0.7	432	0.23	<0.05	5.3	0.164	0.5	1.5	44
E589979		64.8	<0.002	0.11	0.7	5.7	1	0.7	399	0.25	<0.05	5.2	0.168	0.57	1.2	43
E589980		65.2	<0.002	0.15	0.66	5.7	1	0.7	447	0.23	<0.05	5.6	0.169	0.54	1.3	46
E589981		77.2	<0.002	0.06	0.71	5.8	2	0.8	421	0.23	<0.05	5.9	0.168	0.59	1.3	46
E589982		68.9	<0.002	0.04	0.74	5.7	1	0.7	421	0.23	<0.05	5.4	0.165	0.54	1.3	44
E589983		54.9	<0.002	0.05	0.81	5.4	1	0.8	487	0.22	<0.05	4.8	0.164	0.48	1.3	43
E589984		62.5	<0.002	0.84	0.87	27.9	2	0.5	695	0.15	0.06	1.9	0.308	0.51	1.1	163
E589985		49.7	<0.002	0.45	1.12	42.1	2	0.5	460	0.12	0.15	0.3	0.426	0.42	0.1	249
E589986		32.3	<0.002	0.73	0.71	38.4	2	0.5	306	0.14	0.27	0.7	0.421	0.29	0.3	231
E589987		15.6	<0.002	0.4	1.05	44.9	2	0.5	298	0.12	0.19	0.2	0.444	0.12	<0.1	264
E589988		12.2	<0.002	0.3	1.06	43.6	2	0.4	248	0.11	0.16	0.2	0.419	0.09	<0.1	251
E589989		4.5	<0.002	0.15	0.94	44.4	2	0.4	236	0.12	0.08	0.2	0.44	0.04	<0.1	263
E589990		11.7	<0.002	0.21	0.93	43.6	2	0.5	220	0.11	0.09	0.2	0.418	0.1	<0.1	248
E589991		9.9	<0.002	0.23	0.96	43.6	2	0.4	222	0.12	0.13	0.2	0.413	0.08	<0.1	245
E589992		16.2	<0.002	0.18	0.78	43.8	2	0.4	215	0.11	0.14	0.2	0.422	0.11	<0.1	251
E589993		12.6	<0.002	0.33	1.08	47.7	2	0.5	220	0.12	0.18	0.2	0.444	0.09	0.1	267
E589994		6.3	<0.002	0.11	0.84	46.1	2	0.5	120	0.12	0.06	0.2	0.441	0.07	<0.1	256
E589995		1.8	<0.002	0.09	1.96	44.2	2	0.4	171	0.12	0.07	0.2	0.423	0.03	<0.1	252
E589996		2.3	<0.002	0.18	1.42	47.3	2	0.5	185	0.12	0.05	0.2	0.453	0.03	<0.1	267
E589997		2.1	<0.002	0.1	0.96	46.8	2	0.5	137.5	0.12	<0.05	0.2	0.449	0.03	<0.1	260
E589998		17.5	0.002	0.16	1.7	40.9	2	0.4	131	0.11	0.07	0.2	0.384	0.16	<0.1	229
E589999		43.4	<0.002	0.16	0.67	49	2	0.5	94.5	0.13	0.14	0.2	0.479	0.43	<0.1	279
E590000		38.7	0.002	0.45	0.47	43.3	2	0.4	76.5	0.11	0.09	0.2	0.412	0.29	<0.1	248



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589961		1.9	16.5	90	30.5	0.011	
E589962		1	13.4	76	24.8	0.042	
E589963		2.5	17.1	79	29.2	0.007	
E589964		2	12.7	75	26.2	0.009	
E589965		4.9	15.1	69	30.3	0.010	
E589966		6.9	14.8	80	29.1	0.014	
E589967		2.5	15	77	27.7	0.012	
E589968		2.5	12.2	62	20.3	0.012	
E589969		2.4	14.1	63	16.7	0.018	
E589970		2.9	2	24	68.3	0.006	
E589971		2	17.9	82	27	0.061	
E589972		6.7	19.3	78	51.6	0.161	
E589973		3.6	3.7	35	78.8	0.047	
E589974		3.6	4	37	90.5	0.050	
E589975		4.1	13.5	104	55.9	0.045	
E589976		2.7	10.4	87	58.6	0.037	
E589977		2.4	9.6	61	83.2	0.035	
E589978		7.3	5.1	42	111.5	0.002	
E589979		0.7	5.4	51	118.5	0.002	
E589980		0.7	5.5	54	121	0.004	
E589981		0.5	5.5	48	124.5	0.002	
E589982		0.3	5.3	50	123.5	0.003	
E589983		0.5	4.9	49	117.5	0.001	
E589984		1.7	11.4	73	67	0.028	
E589985		1.5	16.6	86	35.2	0.012	
E589986		1.3	17.2	90	54.5	0.013	
E589987		1.3	17.3	86	34.6	0.012	
E589988		1.6	17.3	80	32.3	0.022	
E589989		0.5	17.3	85	29.6	0.014	
E589990		1	16.8	83	25.8	0.021	
E589991		1.3	16.5	83	32.2	0.038	
E589992		1.3	17	79	30.5	0.042	
E589993		4.4	18.7	87	34	0.022	
E589994		0.8	17.1	83	24.1	0.015	
E589995		0.3	17.1	79	18.3	0.041	
E589996		0.3	18.4	94	21.8	0.006	
E589997		0.4	16.7	88	28.2	0.011	
E589998		0.5	14.9	75	23.6	0.013	
E589999		0.7	17.9	101	29.7	0.052	
E590000		1.1	16.3	86	28.9	0.013	



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Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590001	4.85	0.1	8.23	3.2	20	0.15	0.05	8.79	0.14	6.04	45.9	222	3.32	124.5	8.04
E590002	2.45	0.11	7.57	1	920	1.17	0.29	1.79	0.05	15.9	4.5	17	2.93	10.4	1.36
E590003	5.02	0.07	8.05	9.4	10	0.24	0.17	8.62	0.11	6.08	44.5	203	1.77	119	7.84
E590004	5.27	0.07	8.22	20	20	0.21	0.02	8.78	0.12	6.29	48	224	1.77	133.5	8.1
E590005	4.96	0.06	8.5	13.6	20	0.17	0.01	8.71	0.13	6.23	46.9	228	1.67	132.5	8.51
E590006	5.08	0.07	7.65	10.9	20	0.18	0.01	8	0.1	5.1	39.4	207	1.33	115.5	7.03
E590007	5.66	0.1	8.72	9.1	30	0.2	0.04	9.6	0.13	6.26	47	234	1.9	127.5	7.85
E590008	5.35	0.18	7.47	5	150	0.55	0.33	9.1	0.16	44.3	39.6	230	4.26	129.5	6.77
E590009	5.19	0.21	8.37	3.9	300	0.72	0.32	8.5	0.13	46.8	43.5	221	6.81	100	7.61
E590010	5.26	0.21	7.54	5.7	660	1.27	0.27	6.43	0.13	111.5	38.1	198	6.37	68	6.11
E590011	5.51	0.16	7.74	11.6	80	0.27	0.04	8.18	0.13	14.6	46.4	238	1.91	115	7.48
E590012	5.19	0.14	7.93	13.6	20	0.22	0.07	8.34	0.11	5.46	48.6	256	1.85	130.5	7.41
E590013	5.14	0.09	7.82	10.4	20	0.2	<0.01	8.21	0.12	5.23	46.2	251	1.14	115	7.64
E590014	5.17	0.09	7.92	9.4	20	0.17	<0.01	9.55	0.12	5.33	46.9	245	1.47	120.5	7.76
E590015	6.00	0.11	8.1	7.8	20	0.18	<0.01	9.37	0.1	5.69	47.9	252	1.7	133	7.41
E590016	5.22	0.13	7.7	7.1	10	0.18	<0.01	8.51	0.12	5.07	44.9	224	1.42	118	7.12
E590017	5.85	0.18	7.92	6.9	20	0.24	0.03	8.37	0.13	5.51	47.7	245	2.07	114	7.94
E590018	0.07	2.5	2.62	6020	280	0.68	69	0.79	0.17	29.3	10	239	1.09	93.8	2.36
E590019	5.30	0.13	7.45	17.1	20	0.21	0.13	8.44	0.1	5.17	46.4	238	1.24	123.5	7.26
E590020	5.01	0.17	7.45	4.2	20	0.17	0.03	9.28	0.12	5.14	46.1	229	1.34	141.5	7.36
E590021	6.01	0.1	7.94	8.6	20	0.23	<0.01	7.57	0.14	5.33	48.2	244	2.18	112	7.13
E590022	6.14	0.1	7.82	10.7	20	0.18	<0.01	8.19	0.16	5.18	46.2	242	2.35	113	7.75
E590023	5.06	0.08	8.23	14.3	10	0.17	<0.01	8.39	0.12	5.43	47.8	242	1.57	121	7.9
E590024	5.54	0.1	8.08	17.5	10	0.17	<0.01	8.28	0.13	5.43	49.1	251	2.53	116.5	8.26



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590001	15.5	0.08	0.7	0.052	0.11	2.1	42.5	4.2	1380	0.22	1.23	1.8	108.5	220	1
E590002	20.1	<0.05	2.3	0.011	1.72	7.5	25	0.5	266	0.17	3.42	1.4	9.7	240	10.4
E590003	15.4	0.09	0.6	0.055	0.08	2.1	34.4	4.22	1400	0.25	1.21	1.7	101	240	0.8
E590004	16.25	0.08	0.7	0.057	0.08	2.2	43.4	4.14	1465	0.27	1.33	1.8	105.5	220	0.8
E590005	15.9	0.08	0.8	0.057	0.08	2.2	37.5	4.52	1535	0.24	1.41	1.8	105	260	0.6
E590006	12.9	0.05	0.6	0.047	0.09	1.8	37.3	3.71	1300	0.25	1.67	1.5	96.9	210	0.6
E590007	16.25	0.08	0.8	0.06	0.12	2.2	45.1	4.15	1415	0.34	1.48	1.9	105	240	0.9
E590008	15.6	0.1	1.5	0.059	0.29	21.1	46	3.79	1230	0.4	1.76	3.6	126.5	650	3
E590009	17.25	0.14	1.8	0.057	0.77	22.6	87	4.16	1355	0.47	2.04	4	129.5	700	5.1
E590010	19.45	0.26	3.1	0.056	0.84	54.9	81.7	3.57	1060	0.3	2.45	7.6	145	1390	6.7
E590011	16.4	0.18	0.9	0.057	0.13	6.8	42.6	3.49	1315	0.26	1.51	2.3	102	310	1.4
E590012	16.2	0.15	0.7	0.054	0.1	2.1	39.9	3.38	1325	0.77	1.6	1.8	102.5	220	1.2
E590013	15.75	0.15	0.7	0.057	0.07	2	35	3.67	1335	0.32	1.63	1.7	99.2	210	0.7
E590014	16.75	0.15	0.6	0.054	0.07	2.1	41.9	3.6	1445	0.5	1.57	1.8	98.1	220	0.8
E590015	16.55	0.14	0.7	0.057	0.06	2.2	56.4	3.45	1380	0.51	1.48	1.9	102	220	0.7
E590016	15.5	0.14	0.7	0.053	0.06	1.9	53.2	3.11	1235	0.31	1.44	1.7	94.6	190	0.8
E590017	16	0.15	0.7	0.059	0.09	2	56.2	3.91	1385	0.38	1.39	1.7	102.5	220	1.2
E590018	7.41	0.12	0.9	0.023	1.27	14.8	6.1	0.34	242	11.4	0.2	5	17.2	230	25.3
E590019	16.6	0.15	0.5	0.053	0.06	2	44.6	3.37	1295	0.54	1.19	1.7	95.7	200	0.8
E590020	15.25	0.14	0.5	0.051	0.06	2	40.6	3.5	1325	0.39	1.35	1.7	94	200	0.7
E590021	15.5	0.15	0.6	0.057	0.06	2	54.7	3.81	1325	0.29	1.53	1.8	102	210	0.8
E590022	15.6	0.15	0.7	0.053	0.07	1.9	53.7	4.1	1355	0.9	1.2	1.7	101.5	210	0.8
E590023	15.95	0.16	0.7	0.055	0.07	2	42.8	4.12	1380	0.43	1.38	1.8	104	220	0.7
E590024	16.75	0.16	0.7	0.058	0.08	2.1	47.1	4.33	1430	0.42	1.15	1.9	104.5	210	0.7



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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590001		3.7	<0.002	0.08	0.8	44.3	2	0.4	139	0.11	0.06	0.2	0.424	0.04	<0.1	249
E590002		64.8	<0.002	0.15	0.21	3.9	2	0.5	464	0.11	<0.05	1.8	0.081	0.34	0.6	27
E590003		2	<0.002	0.07	1.06	43.2	2	0.4	170.5	0.11	<0.05	0.2	0.413	0.02	<0.1	244
E590004		2	<0.002	0.11	1.11	44.8	2	0.4	154.5	0.12	<0.05	0.2	0.428	0.02	<0.1	253
E590005		2	<0.002	0.12	0.93	46.1	2	0.5	142.5	0.12	<0.05	0.2	0.444	0.02	<0.1	260
E590006		1.7	<0.002	0.12	0.67	37.1	2	0.4	114	0.1	<0.05	<0.2	0.396	0.02	<0.1	233
E590007		3	<0.002	0.09	0.76	46.2	2	0.5	167.5	0.12	<0.05	0.2	0.452	0.03	<0.1	266
E590008		12	<0.002	0.32	1.19	35.2	2	0.6	345	0.2	0.11	3.3	0.438	0.11	0.6	209
E590009		23.2	<0.002	0.43	0.67	39.2	2	0.6	424	0.24	0.09	3.8	0.482	0.16	0.7	226
E590010		19.9	0.002	0.5	0.62	25	1	0.9	822	0.34	0.13	8.8	0.527	0.2	1.7	159
E590011		2.9	<0.002	0.12	0.87	41.5	<1	0.5	232	0.13	0.07	1	0.418	0.05	0.2	231
E590012		2.1	0.002	0.18	0.77	44	<1	0.4	134.5	0.1	0.12	0.2	0.43	0.04	<0.1	245
E590013		0.9	0.002	0.06	0.78	42.6	<1	0.5	126	0.1	0.05	0.2	0.425	0.03	<0.1	246
E590014		1.3	0.003	0.06	0.75	42.7	<1	0.5	156	0.1	0.05	0.2	0.428	0.04	<0.1	247
E590015		1.2	0.003	0.14	0.89	43.2	<1	0.5	150.5	0.11	0.06	0.2	0.431	0.04	<0.1	251
E590016		1.3	0.002	0.12	0.85	41.8	<1	0.5	122.5	0.1	0.06	0.2	0.403	0.04	<0.1	235
E590017		1.9	0.002	0.1	0.77	43.1	<1	0.4	156.5	0.1	0.08	0.2	0.437	0.04	<0.1	252
E590018		56.9	0.006	0.91	7.09	4.5	4	3.6	60.9	1.19	22.8	5.6	0.124	0.27	1.4	28
E590019		1.5	0.003	0.12	0.82	41.2	<1	0.5	163.5	0.1	0.14	0.2	0.422	0.03	<0.1	244
E590020		1.5	0.002	0.2	0.52	40.9	1	0.5	123	0.1	0.11	0.2	0.393	0.04	<0.1	226
E590021		1.5	0.002	0.07	0.77	43.5	<1	0.5	105	0.11	0.06	0.2	0.416	0.03	<0.1	239
E590022		1.6	0.005	0.05	1.08	41.3	<1	0.4	146.5	0.1	0.07	0.2	0.404	0.03	<0.1	236
E590023		1.3	0.003	0.05	1.04	42.5	<1	0.5	138.5	0.1	0.07	0.2	0.437	0.03	<0.1	253
E590024		1.8	0.003	0.04	1.07	43.6	<1	0.5	174.5	0.1	0.07	0.2	0.439	0.03	<0.1	255



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CERTIFICATE OF ANALYSIS TB07140708

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E590001		0.4	15.9	83	19.5	0.019	
E590002		2.6	3.4	33	80.7	0.005	
E590003		0.2	16	79	15.1	0.009	
E590004		0.2	16.2	82	16.4	0.004	
E590005		0.1	16.7	87	20.1	0.004	
E590006		0.2	13.5	77	16.2	0.006	
E590007		0.2	16.6	85	19.2	0.011	
E590008		0.7	16.6	84	55.6	0.007	
E590009		1.1	18.4	96	66.5	0.006	
E590010		0.9	18.1	91	124.5	0.008	
E590011		0.3	15.8	85	23.2	0.010	
E590012		0.5	15.6	83	14.3	0.017	
E590013		0.3	15.6	84	12.5	0.006	
E590014		0.2	15.8	85	12.8	0.004	
E590015		0.3	16.3	78	14.3	0.004	
E590016		1.4	15.1	78	17.4	0.003	
E590017		0.6	16	86	14.6	0.006	
E590018		128	6.8	27	7.9	>10.0	16.65
E590019		1	14.7	80	13.7	0.016	
E590020		1	14.8	81	14.2	0.012	
E590021		0.4	15.2	81	14.2	0.006	
E590022		0.3	15.4	88	13.1	0.007	
E590023		0.2	16.1	84	14.5	0.008	
E590024		0.4	16.4	88	14.8	0.008	



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Project: 244500

CERTIFICATE OF ANALYSIS TB07140708

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE TB07144941

Project: 244500

P.O. No.:

This report is for 164 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 14-NOV-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
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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 TB07144941

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589605	4.56	0.14	7.11	49.4	360	1.54	0.25	2.52	0.03	14.55	7.6	16	21.1	19.2	2.1
E589606	4.86	0.09	8.2	35.1	450	1.92	0.12	2.16	0.09	16.3	4	19	20.9	9.7	1.63
E589607	4.74	0.09	7.57	33.6	420	1.7	0.08	2.7	0.02	14.25	7.6	24	17.3	14.1	2.26
E589608	5.28	0.18	7.6	46.2	370	1.67	0.08	3.75	0.05	19.65	22.9	93	24.8	43.3	4.54
E589609	5.47	0.18	7.86	107	350	1.9	0.06	4.34	0.07	21.7	23.9	102	25.9	42	5.55
E589610	1.94	0.19	7.83	109.5	360	1.61	0.07	3.86	0.08	22.8	26.5	116	25.5	54.6	5.26
E589611	1.80	0.16	8.35	85.8	460	2.03	0.14	2.89	0.06	26.1	28.4	99	21.1	40.1	6.51
E589612	4.58	0.13	7.41	39.1	390	1.38	0.08	2.11	0.05	20	15.5	83	20.3	30	2.95
E589613	4.22	0.11	6.79	98.7	400	1.24	0.09	1.47	0.05	15.55	12.1	61	15.3	24	2.72
E589614	2.23	0.62	6.09	122	320	1.15	0.1	0.81	0.02	18	19.2	73	12.1	33.1	4.2
E589615	3.91	0.34	7.74	68.3	390	1.32	0.15	1.34	0.09	22	27.1	89	18.6	78.4	5.87
E589616	4.62	0.13	7.88	29.6	390	1.28	0.06	3.3	0.05	18.7	17.3	90	26.1	27	3.93
E589617	4.53	0.06	7.44	18.8	310	1.03	0.04	2.93	0.03	16.3	8.1	33	23.8	14.7	2.48
E589618	4.67	0.07	7.56	17.7	330	1.15	0.05	3.03	0.04	18.2	11.9	43	25.7	18.8	2.9
E589619	3.75	0.12	7.27	16.7	360	1.41	0.09	3.33	0.04	16.25	26.3	43	27.6	29	4.88
E589620	2.83	0.25	7.08	13.5	270	1.49	0.13	3.45	0.08	16.75	71.5	3	46.3	53.4	14.4
E589621	2.62	0.25	6.49	14.3	260	1.05	0.21	5.56	0.1	13.45	56.4	2	21.2	41.3	13.25
E589622	4.35	0.08	7.61	9.2	480	1.19	0.03	2.18	0.02	13.85	7.2	14	17.9	11.4	2.94
E589623	2.54	0.48	7.03	12.2	160	1.37	0.37	2.83	0.04	15.25	52.5	11	34.6	83.1	13.85
E589624	3.58	0.61	6.37	15.6	150	1.34	0.64	4.67	0.06	12.25	51	59	24.5	145	13.15
E589625	2.30	0.95	6.3	22.7	180	1.04	0.88	3.22	0.08	7.58	53	51	31.2	342	9.79
E589626	3.19	0.38	7.61	14	220	1.6	0.6	4.87	0.08	8.91	56.6	108	35.7	223	8.5
E589627	2.81	1.03	8.66	12.8	200	1.84	0.85	7.25	0.13	8.31	65.9	129	28.9	334	10.45
E589628	3.55	0.22	6.95	8.2	100	1.18	0.34	6.07	0.1	8.88	45	123	14.55	88.8	7.16
E589629	3.32	0.08	7.47	2.8	210	1.01	0.09	4.35	0.05	24.3	21.4	128	25.1	22.7	3.56
E589630	3.23	0.12	7.81	2.9	220	1.21	0.19	4.13	0.05	20.4	25.7	131	24	65.1	4.38
E589631	5.27	0.12	8.22	2.8	170	0.99	0.15	3.1	0.07	19.85	24.1	126	22.6	68.4	4.46
E589632	4.74	0.13	8.08	3.5	190	1.08	0.11	3.82	0.07	27.3	28.4	153	26.1	63.9	5.14
E589633	4.64	0.21	8.46	3	140	1.07	0.32	7.45	0.21	10.9	53.5	158	8.37	105	11
E589634	4.64	0.51	7.32	5.1	150	0.62	0.54	6.93	0.27	9.12	53.7	147	11.3	316	10.7
E589635	2.10	0.36	5.96	5.9	200	1.19	0.66	6.53	0.2	8.56	41.5	120	19	178	8.38
E589636	0.07	2.2	3.02	5130	320	0.79	76	0.93	0.18	31.6	12.3	271	1.23	103	2.75
E589637	4.83	0.23	8.52	6.1	250	0.56	0.34	6.32	0.21	7.88	54.8	182	19.6	143.5	10.15
E589638	4.83	0.22	8.06	3.3	130	0.32	0.26	6.15	0.2	9.15	47.1	247	14.3	114.5	9.46
E589639	4.94	0.27	7.96	3.3	150	0.46	0.14	6.63	0.23	8.55	45.3	185	11.6	124	9.41
E589640	4.62	0.24	7.77	6	180	0.62	0.19	7.92	0.23	9.76	47.6	163	9.14	119	9.53
E589641	5.52	0.2	8	6.5	70	0.26	0.34	6.24	0.24	8.95	45.3	162	3.18	126.5	9.75
E589642	6.40	0.18	8.25	11.3	80	0.36	0.34	6.37	0.24	9.84	53.4	159	3.93	123.5	9.59
E589643	6.25	0.17	7.91	8.9	70	0.32	0.43	7.1	0.22	7.59	51.5	163	3.49	126.5	8.84
E589644	5.74	0.15	7.84	10.3	70	0.31	0.59	6.22	0.22	7.43	50.4	156	3.94	103.5	8.92



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Project: 244500

CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589605		19.6	0.15	2.3	0.016	1.62	6.8	75.5	0.62	340	0.54	2.18	1.7	9.3	210	11
E589606		21.1	0.11	2.5	0.013	1.89	8.1	77.1	0.68	263	0.33	2.23	1.4	8.7	210	23.2
E589607		18.65	0.13	2.3	0.015	1.68	7.1	90.6	0.98	411	0.45	1.69	1.5	11.7	220	11.8
E589608		20	0.22	2.7	0.042	1.75	9.2	105.5	1.34	683	0.46	1.4	2.3	44.1	410	10.2
E589609		19.9	0.24	3	0.049	1.44	9.7	122.5	1.71	927	0.51	1.39	3	45.8	450	9.9
E589610		20.1	0.14	2.8	0.052	1.48	10.5	114.5	1.63	857	0.4	1.4	3.3	55.5	530	9.7
E589611		23.5	0.29	3.5	0.059	2.3	11.4	112.5	1.47	722	1	1.12	2.8	56	600	10.6
E589612		18.95	0.19	2.4	0.024	1.8	9.2	83	1.02	440	1.13	1.25	1.7	40.1	380	13.1
E589613		17.15	0.09	1.8	0.02	1.74	7.5	88.8	0.78	331	4.25	1.31	1.7	28.2	300	8.4
E589614		17.7	0.19	1.9	0.033	1.68	8	90.2	0.74	316	4.24	0.82	3.2	38.1	380	8.9
E589615		21.7	0.15	2.8	0.054	2.03	9.9	96.2	1.07	607	0.62	1.21	3.5	49.4	490	10.5
E589616		20.5	0.2	2.7	0.03	1.79	8.6	112	1.47	665	1.59	1.29	2.5	38	380	8.3
E589617		19.2	0.14	2.4	0.014	1.61	7.7	113	1.14	470	0.41	1.63	1.9	15.7	260	7.1
E589618		20.3	0.21	2.6	0.02	1.77	8.6	133	1.26	528	0.79	1.35	2.3	23.9	290	6.9
E589619		19.6	0.22	2.6	0.028	1.5	7.8	121.5	1.47	798	1.93	1.08	2.4	21.5	300	8.5
E589620		24.6	0.46	2.4	0.107	1.41	6.5	143	2.37	1760	0.82	1.16	4.8	6.1	560	7.6
E589621		19.8	0.37	1.6	0.095	1.03	4.9	103	2.3	1940	2.08	1.02	4	3.5	530	4.8
E589622		19.95	0.16	2.4	0.023	1.68	6.6	109	0.86	523	2.14	1.25	2	4.9	250	7.3
E589623		22.6	0.45	2.7	0.105	0.86	5.9	150	2.54	1825	0.66	1.15	4.1	12.3	470	6
E589624		21.8	0.42	1.7	0.101	0.63	4.5	132.5	3.08	1800	0.6	0.95	3.7	29.5	370	3.3
E589625		16.4	0.32	1.6	0.061	0.98	2.9	138.5	2.42	921	1.68	1.11	2.2	51.9	350	3.4
E589626		17.8	0.28	1.7	0.063	1	3.4	148.5	3.18	1095	0.69	1.24	2.5	96.7	340	3.2
E589627		21.9	0.35	1.4	0.073	1.19	3	212	4.59	1425	0.43	0.9	2.8	139.5	330	3.5
E589628		16.35	0.16	1.3	0.054	0.61	3.7	110	3.65	1220	0.55	1.19	2.2	95.5	310	3
E589629		17.6	0.21	2.5	0.027	1.45	10.9	173.5	2.49	672	2.06	1.71	2.2	53.1	440	3.6
E589630		19.5	0.23	2.5	0.038	1.75	9.1	195	2.3	783	1.2	1.35	2.2	62.4	440	3.1
E589631		19	0.21	2.5	0.036	1.23	9	159.5	2.5	833	1.28	2.54	2.2	53.8	420	2.9
E589632		20.3	0.23	2.5	0.043	1.39	11.9	209	3.02	911	0.78	1.97	2.3	65.7	510	3.1
E589633		20.1	0.36	1.5	0.087	0.51	4.1	125	3.52	2030	0.55	1.52	3.4	73.7	440	3.4
E589634		17.7	0.35	1.4	0.095	0.52	3.4	140	3.8	1825	2.7	1.49	2.7	62.9	340	3
E589635		16.55	0.31	1.3	0.059	0.86	3.2	167	3.51	1690	0.76	1.16	2.2	61.2	260	3.4
E589636		8.52	0.15	1	0.046	1.38	15.8	7.5	0.38	288	12.95	0.23	5.7	18.8	280	26.4
E589637		18.2	0.33	1.3	0.066	0.79	2.9	188.5	4.04	1710	0.31	1.75	2.6	97.3	320	3.3
E589638		15.8	0.11	1.2	0.059	0.42	3.4	141	4.17	1670	0.39	2.22	2.5	82.1	320	4.2
E589639		15	0.11	1.1	0.062	0.54	3.2	138.5	3.86	1620	0.25	1.79	2.3	82	290	2.9
E589640		15.9	0.12	1.3	0.068	0.52	3.7	134	3.92	1725	1.74	1.53	2.6	74.4	320	3.2
E589641		15.05	0.09	1.1	0.06	0.13	3.3	132.5	4.03	1710	0.81	2.4	2.4	76.7	330	3.1
E589642		19	0.21	1.1	0.074	0.16	3.9	133	4.15	1740	1.45	2.57	3	90.1	340	3.9
E589643		17.5	0.2	1.1	0.063	0.13	2.9	138	4.26	1690	0.49	2.29	2.4	89.6	300	3.4
E589644		17.6	0.19	1.1	0.064	0.14	2.9	127	3.89	1630	0.5	2.41	2.4	86.5	280	3.9



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589605		80.3	<0.002	0.67	1.65	5.8	1	0.5	241	0.14	<0.05	1.9	0.169	0.67	1	66
E589606		98.7	<0.002	0.33	1.4	3	2	0.5	225	0.12	<0.05	1.9	0.082	0.71	1	22
E589607		86	<0.002	0.42	1.31	5.7	1	0.5	227	0.12	<0.05	1.5	0.137	0.67	0.8	40
E589608		92.5	<0.002	1.27	1.98	18.3	2	0.7	246	0.18	<0.05	1.5	0.343	0.78	0.6	111
E589609		82	<0.002	1.29	2.48	20.2	2	0.7	288	0.23	0.05	1.6	0.382	0.73	0.6	113
E589610		83.4	<0.002	1.15	2.24	23.2	2	0.6	281	0.21	<0.05	1.7	0.403	0.72	0.6	115
E589611		113	<0.002	3.67	3.08	22.2	2	0.7	208	0.21	<0.05	1.8	0.376	0.87	0.7	112
E589612		88.4	<0.002	0.75	1.48	11.3	2	0.6	215	0.15	<0.05	1.8	0.197	0.67	0.8	74
E589613		93.6	<0.002	1.04	1.77	9.4	2	0.5	187	0.12	0.05	1.6	0.162	0.65	0.7	68
E589614		83.5	<0.002	2.16	2.82	14.1	2	0.5	127	0.17	0.2	1.3	0.292	0.58	0.7	89
E589615		95.4	<0.002	2.58	2.45	24.1	3	0.7	171	0.23	0.22	1.6	0.444	0.63	0.7	146
E589616		84.5	<0.002	0.61	2.22	13.8	1	0.6	252	0.19	<0.05	1.6	0.285	0.72	0.8	91
E589617		76.4	<0.002	0.19	1.16	5.9	1	0.5	207	0.14	<0.05	1.8	0.148	0.59	0.8	38
E589618		92.8	<0.002	0.31	1.44	8.4	2	0.6	208	0.18	<0.05	1.9	0.186	0.66	0.9	51
E589619		86.5	<0.002	1.08	1.64	14.7	2	0.7	238	0.17	<0.05	1.5	0.386	0.72	0.7	127
E589620		80.2	0.002	3.46	2	58.8	3	1	219	0.3	0.05	0.5	1.83	0.89	0.2	592
E589621		55.3	0.002	2.11	1.66	48.8	2	0.7	245	0.26	0.1	0.4	1.665	0.56	0.1	476
E589622		84.2	<0.002	0.38	0.84	9	2	0.6	183	0.16	<0.05	1.5	0.285	0.71	1	98
E589623		52.2	0.004	2.5	1.13	58.1	3	0.9	195	0.26	0.17	0.5	1.78	0.67	0.3	761
E589624		38.8	0.005	2.04	1.53	55.4	3	0.8	228	0.22	0.3	0.4	1.525	0.42	0.1	694
E589625		58.8	<0.002	3.13	1.46	40.5	3	0.5	180.5	0.13	0.59	0.3	0.682	0.6	0.4	380
E589626		64.4	<0.002	1.72	1.03	47.9	2	0.6	281	0.16	0.26	0.3	0.565	0.64	0.1	285
E589627		72.8	<0.002	2.5	1.28	57.1	3	0.6	253	0.17	0.55	0.3	0.612	0.58	0.1	351
E589628		35.2	<0.002	1.13	0.88	33.8	2	0.6	190.5	0.13	0.15	0.4	0.441	0.29	0.1	210
E589629		80.4	<0.002	0.43	0.69	15.7	2	1.2	174	0.14	0.07	1.5	0.245	0.61	0.4	101
E589630		81.3	<0.002	0.78	0.88	15.7	3	0.7	190.5	0.14	0.15	1.2	0.267	0.84	0.4	107
E589631		61.7	<0.002	0.56	0.97	15.3	2	0.6	199.5	0.14	0.08	1.2	0.269	0.58	0.4	103
E589632		61.5	<0.002	0.64	0.8	19.1	1	0.7	174.5	0.15	0.05	1.5	0.303	0.7	0.4	128
E589633		24.4	<0.002	0.45	1.58	48	2	0.8	257	0.21	0.13	0.3	0.728	0.2	0.1	312
E589634		29.4	0.003	0.83	1.23	44.4	2	0.9	224	0.17	0.24	0.2	0.656	0.26	0.1	283
E589635		56.2	<0.002	2.1	1.2	35.9	3	0.6	202	0.13	0.31	0.2	0.451	0.48	0.1	221
E589636		73.5	0.004	1.04	7.92	5	6	4	69.4	1.41	26.5	5.9	0.139	0.33	1.5	29
E589637		53	<0.002	0.37	1.18	41.7	2	0.6	250	0.17	0.17	0.2	0.603	0.49	0.1	275
E589638		24.5	<0.002	0.23	1.07	46.9	1	0.6	324	0.18	0.11	0.2	0.595	0.25	0.1	273
E589639		24.8	<0.002	0.16	1.17	40.1	1	0.6	292	0.17	0.08	0.2	0.572	0.27	0.1	260
E589640		26.8	<0.002	0.77	1.29	43	2	0.7	262	0.17	0.07	0.3	0.581	0.22	0.1	274
E589641		4.6	<0.002	0.15	0.89	40.6	1	0.5	238	0.17	0.14	0.2	0.607	0.05	0.1	284
E589642		6.7	0.002	0.16	1.19	41.7	1	0.6	419	0.16	0.09	0.8	0.596	0.08	0.1	280
E589643		5.4	0.002	0.19	0.82	37.7	2	0.5	292	0.14	0.13	0.2	0.552	0.06	0.1	248
E589644		6.2	0.002	0.21	0.85	37.4	1	0.6	234	0.15	0.19	0.2	0.545	0.08	0.1	253



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589605		1.4	3.9	42	70.7	0.018	
E589606		0.4	2.7	91	77.9	0.011	
E589607		1.2	4.5	39	73	0.097	
E589608		2.3	12.3	67	87	0.085	
E589609		2.4	15.2	79	94.8	0.115	
E589610		2.5	16.5	79	93.7	0.033	
E589611		2.3	17.1	75	113	0.192	
E589612		1.5	6.8	55	80.5	0.023	
E589613		2	5.9	46	58.4	0.087	
E589614		7.1	10.3	55	60.8	0.384	
E589615		6.6	16.8	71	94.1	0.378	
E589616		2.3	9.8	63	87	0.028	
E589617		1.1	5.4	48	74.3	0.011	
E589618		1.3	6.9	48	80.8	0.020	
E589619		4.4	9.9	56	80.1	0.047	
E589620		18.5	29.2	135	74.4	0.096	
E589621		17.2	28.2	126	47.8	0.041	
E589622		2.6	6.9	45	77.3	0.014	
E589623		29.6	22.7	114	83.4	0.177	
E589624		24.7	23.5	100	53.4	0.107	
E589625		10.4	14.4	98	50.9	0.322	
E589626		5.7	16.6	94	50.8	0.084	
E589627		8.6	21.5	100	43.7	1.035	
E589628		3.3	16.3	90	44.4	0.087	
E589629		1.8	9	63	83.9	0.011	
E589630		1.2	7.8	47	83.6	0.013	
E589631		1.1	7.7	83	85.8	0.008	
E589632		2.1	9.4	98	86.2	0.013	
E589633		2.4	25.4	181	43.6	0.012	
E589634		4	21.6	227	42.2	0.079	
E589635		3.4	17.3	121	41.8	0.253	
E589636		150.5	7.5	28	9.5	>10.0	19.20
E589637		1.1	20.1	147	38.5	0.019	
E589638		0.8	20.4	142	35.3	0.014	
E589639		2.1	18.7	153	35.6	0.035	
E589640		3	21.2	121	42	0.060	
E589641		0.5	19.4	142	34.1	0.078	
E589642		0.5	21.4	128	31.3	0.097	
E589643		0.9	19.1	129	33	0.070	
E589644		0.5	19.3	126	31.1	0.082	



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589645		5.56	0.22	8.03	12	60	0.35	1.02	5.82	0.25	8.2	53.8	114	4.24	139	9.5
E589646		5.80	0.18	8.08	9.8	90	0.36	0.27	6.78	0.21	8.29	54.6	160	4.11	123.5	9.44
E589647		4.46	0.22	8.06	10.1	190	0.5	0.45	6.25	0.19	8.6	54	150	9.7	135.5	9.38
E589648		1.09	0.35	7.93	18.7	270	1.19	0.19	7.37	0.13	9.3	51.2	113	15.45	97.3	9.86
E589649		7.46	0.44	8.19	24.4	180	0.94	<0.01	6.92	0.21	7.88	50.2	157	11.55	152	9.64
E589650		1.11	0.28	8.36	9	260	1.12	0.09	5.48	0.16	9.33	43.3	146	16.3	82.5	8.56
E589651		5.23	0.23	8.24	6.4	190	0.51	0.02	6.46	0.21	9.19	51.3	126	9.82	132	10
E589652		3.59	0.22	8.31	8.6	180	0.5	0.17	6.26	0.16	9.14	52.8	133	9.8	146.5	10
E589653		4.10	0.24	8.19	7.5	120	0.26	0.31	6.49	0.18	9.55	51.5	133	7.46	137.5	9.83
E589654		9.59	0.11	8.44	1.7	150	0.55	0.15	5.6	0.09	10.8	49.4	152	10.35	220	10.25
E589655		4.11	0.15	8.76	2.5	30	0.43	0.04	4.8	0.12	12.75	53.7	137	3.08	250	10.35
E589656		3.39	0.12	8.18	2.7	50	0.47	<0.01	3.55	0.1	17.6	50.8	110	4.39	183	9.84
E589657		5.39	0.13	8.76	3.8	50	0.38	0.05	4.58	0.1	14.05	55.3	113	9.94	119	11
E589658		4.60	0.1	6.65	2.7	90	0.58	0.04	9.58	0.15	11.35	39	77	14.7	94.8	8.53
E589659		3.29	0.07	8.85	5.2	260	0.77	0.03	8.85	0.29	23.4	20.3	81	18.8	51.8	3.62
E589660		5.52	0.1	8.19	3.4	70	0.55	0.08	6.71	0.16	13.4	49	109	8.76	139.5	9.35
E589661		4.64	0.08	7.85	2.4	90	0.37	0.03	8.18	0.25	12.7	45.3	104	6.83	110.5	9.17
E589662		5.87	0.08	8.45	3	230	0.63	0.02	5.94	0.13	24.7	24.3	97	16	41.2	4.87
E589663		5.51	0.06	7.74	1.7	230	0.68	0.01	3.25	<0.02	23.4	20.8	91	15.4	31.2	3.91
E589664		5.62	0.06	7.88	2	180	0.67	0.01	3.01	0.04	22.4	20.8	99	22	26.8	4.04
E589665		4.76	0.08	8.03	3.1	140	0.87	0.03	3.02	0.11	23.3	23.2	114	22.4	31	4.48
E589666		4.19	0.1	7.74	1.6	210	0.93	0.04	3.23	0.09	13.55	22.8	103	15.85	44.8	4.05
E589667		4.54	0.12	7.8	1.3	230	1.1	0.05	3.97	0.12	16.05	23.2	96	14.15	44.1	4.35
E589668		4.58	0.07	7.86	1.5	180	0.83	0.05	3.78	0.1	15.1	19.5	102	11.35	30.5	4.57
E589669		5.65	0.13	7.93	2.5	200	0.91	0.05	4.73	0.1	14.9	30.7	100	17.85	74.6	6.32
E589670		3.70	0.09	4.75	8	50	0.31	0.04	11.75	0.17	6.15	30.1	97	3.83	76.4	6.53
E589671		4.26	0.13	8.43	1.5	130	0.52	0.07	5.83	0.12	9.36	48.9	143	11.45	129	9.84
E589672		3.04	0.15	7.59	2	130	0.64	0.09	5.89	1.46	8.84	46.7	117	11.9	146.5	9.22
E589673		5.94	0.14	8.04	3.6	70	0.54	0.18	5.97	0.32	9.17	50.4	134	9.09	152.5	10.05
E589674		3.22	0.14	7.97	3.5	40	0.53	0.12	4.81	0.13	9.42	52.2	135	5.58	126	9.75
E589675		2.78	0.06	6.91	1.4	500	1.06	0.11	1.13	0.06	10.2	3.7	14	2.28	4.1	1.11
E589676		5.68	0.15	5.58	4.4	140	0.56	0.11	6.84	0.19	8.55	32.4	86	11.15	103.5	7.94
E589677		7.83	0.33	8.41	5.8	70	0.48	0.05	5.37	0.15	10.1	52.4	134	7.81	169.5	10.25
E589678		5.26	0.23	8.29	15.1	120	0.9	0.03	4.64	0.16	79.7	18.7	15	13.15	22.6	4.39
E589679		4.81	0.43	8.19	20.8	210	0.95	0.21	6.71	0.09	11.65	45.4	122	10.2	106	9.37
E589680		2.68	0.78	7.76	21.5	100	0.89	0.12	5.54	0.12	9.5	51.9	126	14.05	146.5	9.37
E589681		2.45	0.48	6.11	39.3	230	1.3	0.28	8.53	0.08	9.51	44.5	85	14.6	99.8	8.28
E589682		5.37	0.58	7.59	22.9	160	1.24	0.18	4.52	0.07	7.67	45.3	118	16.9	143.5	9.16
E589683		4.96	0.35	7.87	8	100	1.09	0.18	5.18	0.1	9.45	47.6	136	17	137	9.3
E589684		6.34	0.41	7.18	10.8	100	1.06	0.18	5.88	0.09	8.74	54.9	111	14.1	168	9.22



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589645		18.9	0.2	1.2	0.071	0.12	3.1	123	3.95	1650	0.16	2.46	2.7	84.8	340	3.7
E589646		18.85	0.19	1.2	0.072	0.18	3.1	113.5	3.97	1645	0.4	2.16	2.9	89	330	2.4
E589647		19.4	0.21	1.2	0.07	0.43	3.2	115.5	3.82	1615	0.37	1.83	2.9	89.3	330	2.6
E589648		18.85	0.21	1.4	0.074	1.32	3.2	172.5	4	1995	1.62	0.6	2.3	84.6	310	2.2
E589649		17.4	0.2	1.2	0.069	1	2.7	121	4.46	1840	0.68	0.71	2.3	94.8	290	2.6
E589650		17.05	0.17	1.3	0.072	1.19	3.3	123	3.63	1570	2.17	1.1	2.6	84.6	350	3.3
E589651		18.5	0.19	1.3	0.076	0.53	3.2	85.2	4.12	1730	0.27	1.77	2.9	89.1	360	2.3
E589652		18.3	0.2	1.2	0.075	0.44	3.2	91.9	4.01	1650	0.39	1.78	2.9	94.2	360	2.5
E589653		18.35	0.2	1.3	0.073	0.26	3.3	77.9	4.24	1630	0.39	2.06	2.9	90	340	2.6
E589654		19.75	0.19	1.6	0.077	0.57	4	103.5	4	1230	0.38	1.04	3	92.3	390	1.9
E589655		20.9	0.21	2.1	0.1	0.1	4.5	89.6	3.86	1360	0.36	2.36	3.7	95.7	470	1.8
E589656		21.7	0.22	2.7	0.106	0.24	6.5	94.1	3.13	1320	0.4	2.18	4.2	85.7	530	3
E589657		21.7	0.23	2.7	0.103	0.26	4.8	88.7	3.72	1520	0.53	2.6	4.1	94.8	520	2.9
E589658		17.15	0.17	1.8	0.072	0.4	4.1	81.1	3.59	1590	0.49	0.72	3.1	65.6	370	1.7
E589659		20.3	0.11	3.6	0.05	1.73	9.8	119.5	1.2	573	1.44	1.15	2.5	36.2	490	3.1
E589660		21.3	0.18	2.1	0.089	0.24	4.7	95.6	2.84	1390	0.39	0.78	4	79.6	520	1.9
E589661		20	0.2	2.1	0.086	0.23	4.4	62.6	3.07	1535	0.38	0.59	3.7	81.9	480	2
E589662		20.7	0.12	2.8	0.049	0.88	10.8	111	1.86	856	0.49	1	2.4	52.7	520	3.7
E589663		20.4	0.11	2.7	0.032	1	9.9	151.5	2.93	779	0.44	0.98	2	48.2	480	3.2
E589664		19.75	0.12	2.5	0.029	0.94	9.2	133.5	2.81	718	0.34	1.77	1.9	48.7	480	4.3
E589665		19.75	0.13	2.6	0.033	0.74	10	115.5	2.87	750	0.48	2.45	2	54.3	490	6.6
E589666		19.35	0.07	1.8	0.03	0.87	6	124	2.34	624	0.4	2.53	1.9	47.3	470	5.2
E589667		19.65	0.08	1.8	0.032	0.93	7.7	129	2.54	888	0.55	2.17	1.9	46.2	480	5.9
E589668		16.45	0.05	1.5	0.026	0.69	7.1	102.5	2.56	838	0.35	2.5	1.7	40.9	510	4.9
E589669		18.1	0.09	1.5	0.054	0.8	6.6	133	2.98	1020	0.49	1.46	2.5	48.9	400	4.7
E589670		10.85	0.06	0.8	0.047	0.21	2.4	58.2	3.6	1660	0.49	0.58	1.8	36.3	240	1.7
E589671		18.95	0.1	1.4	0.068	0.57	3.5	130	3.56	1680	0.37	1.5	3	66.9	380	3
E589672		17.15	0.1	1.3	0.092	0.54	3.4	88.9	3.3	1510	0.36	1.63	2.7	59.2	360	3.9
E589673		18.5	0.12	1.5	0.078	0.32	3.6	85.2	3.53	1590	0.34	1.92	2.9	65.1	380	3.2
E589674		19.05	0.12	1.4	0.083	0.17	3.6	87.3	3.1	1340	0.35	1.7	3	65.7	390	2.7
E589675		18.1	<0.05	1.7	0.008	1.43	5.2	17.4	0.35	185	0.19	3.62	1.3	6.8	210	8.3
E589676		13.6	0.07	1.1	0.069	0.7	3.4	95.4	2.78	1770	0.38	0.59	2.1	42.8	290	2.8
E589677		19.55	0.1	1.5	0.08	0.36	4	106	3.95	1550	0.32	1.76	3.1	65.6	410	2.8
E589678		16.8	0.14	3.1	0.038	0.68	37.9	98.1	2.43	921	0.44	3.45	5.8	21.2	1790	6
E589679		19.95	0.11	1.3	0.075	1.33	4.6	167.5	4.28	1480	0.5	0.9	2.6	64.6	410	2.8
E589680		18	0.1	1.4	0.074	0.8	3.5	140.5	3.76	1400	0.25	1.37	3	69.7	390	5.7
E589681		14.7	0.08	1.2	0.063	1.13	3.9	119	3.71	1580	0.39	0.71	2	47.3	300	3.2
E589682		18.7	0.11	1.2	0.076	1.25	2.8	159	3.12	1250	0.35	1.32	3	56.8	420	3.6
E589683		19.1	0.1	1.1	0.077	0.83	3.6	148.5	3.77	1490	0.33	1.19	3	64.3	380	2.3
E589684		16.6	0.09	1.3	0.077	0.78	3.4	126.5	3.64	1390	0.33	1.06	2.7	56.9	360	2.6



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589645		6.1	<0.002	0.21	1.02	40.6	1	0.6	168	0.17	0.38	0.3	0.592	0.08	0.1	278
E589646		8.5	<0.002	0.09	1.18	41.9	1	0.7	201	0.16	0.06	0.3	0.604	0.09	0.1	278
E589647		22.5	0.002	0.2	1.84	40.2	1	0.6	245	0.17	0.12	0.3	0.597	0.28	0.1	272
E589648		78	0.004	3.59	0.83	38.8	3	0.7	140.5	0.15	0.15	0.2	0.516	0.67	0.1	282
E589649		57.3	0.002	1.16	1.27	39.5	3	0.5	194.5	0.14	0.1	0.2	0.534	0.49	0.3	263
E589650		70	0.008	0.83	0.92	41	3	0.7	195	0.16	0.1	0.2	0.581	0.64	0.1	274
E589651		30	0.002	0.26	1.32	42.6	3	0.6	247	0.18	<0.05	0.2	0.606	0.32	0.1	290
E589652		23.6	0.002	0.69	1.25	42.8	2	0.5	238	0.17	0.06	0.2	0.652	0.24	0.1	305
E589653		13.1	0.003	0.17	1.11	42.6	2	0.6	194.5	0.17	0.1	0.2	0.629	0.14	0.1	300
E589654		31.9	0.002	0.88	0.71	43.2	2	1.3	207	0.19	0.2	0.3	0.638	0.27	0.1	304
E589655		4	0.002	0.88	0.8	46.8	3	1.4	193.5	0.23	0.08	0.4	0.801	0.04	0.1	347
E589656		12.2	0.003	1.36	0.79	46.4	3	1.4	170.5	0.27	<0.05	0.9	0.858	0.09	1.1	371
E589657		12.1	0.002	2.52	0.92	46.7	3	1	216	0.25	<0.05	0.4	0.912	0.1	0.1	392
E589658		21.4	0.002	1	0.81	35.2	2	0.7	233	0.19	<0.05	0.3	0.637	0.18	0.1	290
E589659		71.9	0.002	0.48	0.84	13.6	2	1.3	235	0.18	<0.05	2	0.318	0.5	0.7	131
E589660		13	0.002	0.66	0.88	45.1	3	0.8	224	0.25	0.13	0.4	0.86	0.1	0.1	379
E589661		10.8	0.002	0.22	0.94	43.2	3	1	224	0.23	0.09	0.4	0.779	0.07	0.1	345
E589662		39.5	<0.002	0.15	1.19	18.4	2	0.7	233	0.16	<0.05	1.5	0.332	0.28	0.5	130
E589663		26.3	<0.002	0.14	0.87	14.4	2	0.5	197	0.14	<0.05	1.3	0.236	0.32	0.5	94
E589664		28.7	<0.002	0.32	0.82	14.9	2	0.5	209	0.13	<0.05	1.4	0.246	0.34	0.5	100
E589665		28.2	<0.002	0.87	0.71	17	2	0.8	226	0.14	<0.05	1.6	0.261	0.28	0.6	113
E589666		25.1	<0.002	0.67	0.77	15.9	1	0.5	209	0.14	<0.05	1	0.272	0.32	0.3	105
E589667		29.4	<0.002	0.79	0.68	15.3	1	0.6	229	0.15	<0.05	1.2	0.26	0.35	0.3	100
E589668		17.2	<0.002	0.45	0.55	13.5	1	0.5	215	0.13	<0.05	1	0.283	0.23	0.3	110
E589669		42.1	<0.002	0.92	0.77	29.3	2	0.6	236	0.17	<0.05	0.8	0.478	0.38	0.2	196
E589670		12	<0.002	0.83	0.66	24.1	2	0.3	266	0.12	<0.05	0.2	0.397	0.09	<0.1	180
E589671		33.6	0.002	1.23	0.62	44	2	0.6	241	0.19	0.05	0.3	0.658	0.27	0.1	301
E589672		32.9	0.002	2.18	0.56	40.2	2	0.7	240	0.18	<0.05	0.3	0.606	0.27	0.1	281
E589673		19.6	<0.002	1.78	0.67	42.3	2	0.7	218	0.19	0.07	0.3	0.648	0.18	0.1	296
E589674		11.1	0.002	1.44	0.58	43.2	3	0.6	171	0.2	0.06	0.3	0.654	0.11	0.1	293
E589675		53.1	<0.002	0.07	0.15	2.9	1	0.4	406	0.1	<0.05	1.5	0.076	0.3	0.5	18
E589676		44.3	0.002	1.86	0.97	28.9	2	0.7	143	0.14	<0.05	0.2	0.451	0.32	0.1	202
E589677		23.2	<0.002	1.46	0.9	43.4	3	0.7	199.5	0.21	<0.05	0.3	0.688	0.21	0.1	309
E589678		45.2	<0.002	1.25	0.89	11.6	2	0.8	219	0.38	0.05	5.8	0.448	0.4	1.2	109
E589679		61.4	<0.002	3.3	1.07	42.7	2	0.6	190.5	0.17	0.08	0.4	0.568	0.5	0.1	295
E589680		45.8	<0.002	3.57	1.19	42.3	2	0.6	202	0.21	0.06	0.3	0.64	0.51	0.1	288
E589681		79	<0.002	5.16	1.15	32	3	0.4	212	0.14	0.13	0.2	0.456	0.58	0.1	223
E589682		47.8	<0.002	4.15	1	37.7	3	0.6	223	0.21	0.08	0.2	0.698	0.81	0.1	301
E589683		43.3	0.002	1.41	0.81	43.7	3	0.7	195.5	0.2	0.09	0.3	0.661	0.6	0.1	297
E589684		53.3	<0.002	2.78	1.12	38.7	2	0.6	211	0.19	0.07	0.3	0.606	0.53	0.1	275



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
		0.1	0.1	2	0.5	0.001	0.01
E589645		0.6	21.7	122	35.4	0.215	
E589646		0.7	21.7	122	37.3	0.040	
E589647		0.9	22.6	131	39.1	0.072	
E589648		6	21.9	131	40	0.461	
E589649		5.7	20.1	144	37.3	0.201	
E589650		9.8	21.3	125	39.8	0.144	
E589651		3.2	23	131	41.1	0.022	
E589652		2.8	22.2	114	36.1	0.037	
E589653		0.8	24	115	38.8	0.064	
E589654		3.8	23.6	104	49.9	0.018	
E589655		5.6	26.5	92	68.9	0.025	
E589656		8.4	28.7	114	81.8	0.010	
E589657		5.6	27.3	121	84.5	0.026	
E589658		9.7	22	112	54.9	0.010	
E589659		1.5	11.3	144	122.5	0.004	
E589660		4.3	28.2	139	67.2	0.038	
E589661		1.2	28.4	156	63.5	0.005	
E589662		1	11	125	90.7	0.003	
E589663		1.1	7.3	72	88.9	0.002	
E589664		1.4	7.4	75	85.7	0.003	
E589665		1.8	8.2	102	84.7	0.008	
E589666		1.9	6	88	70.4	0.003	
E589667		1.6	6.5	97	70.8	0.003	
E589668		1.3	6.3	101	62.7	0.003	
E589669		1.9	13.8	94	58.6	0.006	
E589670		1.6	14.8	75	27.7	0.012	
E589671		4.8	22.6	111	55.4	0.011	
E589672		4.9	21.7	227	46.4	0.028	
E589673		5.7	21.6	174	51.6	0.020	
E589674		5.2	20.8	152	56.7	0.016	
E589675		1.7	2.1	38	63.2	0.007	
E589676		4.1	19.7	128	40	0.011	
E589677		5.1	22.8	130	57.5	0.014	
E589678		3	16	97	138	0.015	
E589679		7.4	15.9	112	53.5	0.029	
E589680		18.8	20.4	114	50.9	0.056	
E589681		9.1	17.4	57	40.3	0.131	
E589682		8.3	16.8	81	46.4	0.130	
E589683		7.5	22	91	40.4	0.029	
E589684		5.4	20.3	86	48.1	0.091	



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North Vancouver BC V7J 2C1

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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589685	6.62	0.37	7.76	5.1	120	1.02	0.18	6.38	0.11	8.99	47.8	126	12.95	182	9.39
E589686	4.84	0.47	8.48	3.5	100	1.22	0.14	6.15	0.14	10.2	46	142	12.6	132	9.62
E589687	4.91	0.32	7.13	6	100	1.25	0.12	5.9	0.13	8.35	57	108	15.05	161	9.86
E589688	4.19	0.45	6.86	22	150	1.88	0.2	7.36	0.13	8.58	57.5	98	14.9	158	9.78
E589689	5.60	0.36	7.95	6.5	100	1.46	0.21	5.67	0.11	9.08	43.6	128	20.9	139.5	9.57
E589690	5.58	0.33	8.26	5.2	130	1.45	0.41	6.35	0.11	8.38	44.4	132	18.2	195	9.13
E589691	5.41	0.22	8.06	8.3	170	1.4	0.21	4.89	0.06	57.3	28.6	42	23.5	84.6	5.68
E589692	5.59	0.35	7.93	8.9	120	1.54	0.42	5.56	0.08	10.35	50.4	125	22.5	189.5	8.61
E589693	5.25	0.54	7.55	9.3	110	1.46	0.61	7.27	0.1	10.15	47.8	121	20.5	279	9.38
E589694	5.50	0.3	7.56	5.5	120	1.27	0.36	7.06	0.09	10.35	42.8	124	23.8	128	9.08
E589695	4.25	0.42	7.14	7.3	150	0.93	0.3	6.11	0.06	10.2	48	125	24.7	154	8
E589696	4.00	0.28	6.97	40.5	180	1.45	0.06	3.36	0.04	30.5	15.5	63	19.2	30.2	3.27
E589697	5.72	0.61	7.44	57.1	160	1.35	0.03	1.46	0.05	21.7	21.8	101	23.7	39.4	3.39
E589698	4.79	0.47	8.02	60.5	140	1.67	0.06	2.63	0.08	39.9	25.8	83	29.4	24.6	5.02
E589699	2.50	1.25	7.29	112	130	1.47	0.08	1.19	0.05	11.55	57.2	133	11.1	99.9	10.15
E589700	6.31	0.42	7.66	11.1	100	1.04	0.07	5.78	0.1	11.25	51.6	146	18.4	120.5	9.77
E589701	5.59	0.2	7.57	3.6	260	0.48	0.01	6.64	0.15	9.83	51.1	139	15.3	106.5	10.15
E589702	5.64	0.2	7.72	5.4	160	0.65	<0.01	5.3	0.14	20.9	40.5	126	19.55	113	8.16
E589703	5.35	0.25	8.05	9.8	90	1.06	<0.01	5.56	0.11	29.5	42.8	133	22.1	76.4	7.88
E589704	4.72	0.16	7.73	7.2	130	1.6	<0.01	4.03	0.06	35.2	30.8	137	23.6	39.9	5.48
E589705	4.92	0.57	6.96	42.3	190	1.93	<0.01	4.03	0.06	42	22.6	85	25.5	35.2	5.29
E589706	0.10	1.75	2.65	6000	290	0.72	66.5	0.77	0.17	28.9	13.6	246	1.16	94	2.39
E589707	4.55	0.42	6.93	34.9	220	2.19	0.26	6.06	0.1	19.9	19.2	105	21.6	28.4	4.1
E589708	3.62	1.19	6.29	100.5	170	2.39	0.05	3.45	0.06	22.7	37	10	22.5	16.9	9.51
E589709	4.75	0.97	6.17	109	120	2.35	0.01	2.45	0.07	30.4	26.2	2	18.5	29.5	10.15
E589710	4.53	0.78	5.69	108.5	130	2.56	<0.01	3.31	0.08	32.1	20.4	3	17.5	15.9	8.84
E589711	4.04	0.79	6.23	128.5	130	2.62	<0.01	2.33	0.12	33.1	23	4	21.9	18.8	9.98
E589712	4.76	0.71	4.39	172	100	2.16	<0.01	9.9	0.2	20.7	16.9	2	12.55	12.7	7.48
E589713	2.71	0.13	0.83	25	20	1.32	<0.01	33.3	0.15	4.88	1.2	4	3.37	3.3	0.73
E589714	4.69	1.13	5.03	121.5	130	1.51	0.05	2.27	0.47	27.1	30	6	20.9	65.2	9.29
E589715	5.66	0.45	7.07	48.1	280	1.91	0.08	1.58	0.15	20.1	8.5	14	20.7	11.3	2.7
E589716	4.05	1.14	5.5	83.7	220	1.77	0.09	0.58	0.12	47.9	28.2	3	13.4	23.7	10.35
E589717	5.04	1.26	4.98	33.1	120	1.41	0.15	2.73	0.16	22.2	52.2	6	27	44.4	11.1
E589718	4.91	1.69	6.26	12.2	110	1.64	0.14	3.98	0.16	16.4	56.5	4	25.3	60.1	14.15
E589719	4.44	1.55	5.82	9.2	130	1.61	0.13	3.78	0.12	20.7	58	6	30.7	79.9	12.45
E589720	6.18	0.82	6.17	7.2	90	1.69	0.14	4.74	0.13	17.1	53.5	5	16.6	50.5	12.2
E589721	5.79	0.51	6.52	6	100	1.07	0.05	6.1	0.16	16.15	53.8	8	8.24	39.9	12.45
E589722	6.06	0.37	6.42	6.6	130	0.95	0.04	5.92	0.13	14.6	56.1	5	12.45	54.8	12.15
E589723	4.48	0.5	6.47	8.8	130	1.05	0.1	5.79	0.1	13.85	63	5	12.95	54.1	12.7
E589724	4.00	0.51	6.15	13.7	120	1.47	0.07	4.37	0.13	21.5	37.9	10	22.1	36.2	10.5



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212 Brooksbank Avenue

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	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589685		17.45	0.1	1.3	0.075	0.74	3.5	121	3.25	1520	0.33	1.18	2.8	61.7	360	2.5
E589686		19.6	0.11	1.2	0.083	0.69	3.9	124.5	3.5	1630	0.31	1.22	3.1	67.7	410	2.9
E589687		15.9	0.11	1.2	0.073	0.81	3.2	113.5	3.17	1420	0.31	0.96	2.6	67.5	340	2.3
E589688		15.85	0.1	1.2	0.07	0.84	3.3	108	3.39	1530	0.38	0.7	2.4	62	320	2.9
E589689		18.8	0.11	1.2	0.075	0.82	3.4	136.5	3.75	1410	0.29	0.75	2.8	74.1	370	2.2
E589690		18.8	0.09	1.2	0.084	0.73	3	118.5	3.64	1380	0.33	1.03	2.9	66.8	380	2.7
E589691		17.95	0.1	2.8	0.045	1.01	26.5	125.5	2.08	953	0.68	1.43	5.3	34.2	1500	4.7
E589692		19.7	0.11	1.3	0.068	0.89	4.1	123.5	3	1220	0.32	1.3	2.8	70.7	390	3.6
E589693		20.9	0.13	1.6	0.071	0.65	3.6	107	4.01	1440	0.45	1	2.7	68.1	340	9.8
E589694		18.3	0.13	1.4	0.07	0.73	3.7	99.1	4.06	1545	0.56	0.99	3	63.2	370	4.6
E589695		19	0.12	1.4	0.063	1.17	3.8	106.5	3.43	1125	0.78	1.12	2.7	75.9	350	6.7
E589696		17.25	0.11	2.1	0.03	1.57	14.5	83.4	1.44	565	1.03	0.82	1	27.5	450	6.7
E589697		18.45	0.1	2	0.027	1.39	9.8	115	0.65	313	1.49	1.01	1	63.4	440	9.3
E589698		21.8	0.13	2.8	0.04	1.23	18	145	1.41	834	1	1.06	3	41.4	850	17.7
E589699		19.45	0.16	1.5	0.069	1.05	4.5	117.5	1.13	513	1.33	1.05	2.2	75.4	370	52.5
E589700		20.1	0.15	1.6	0.078	0.6	4.2	104.5	3.67	1440	0.85	0.64	3.2	67.7	390	7.5
E589701		19.2	0.15	1.5	0.076	0.82	3.6	99.4	4.1	1605	0.3	0.7	3	69.5	390	3.3
E589702		18.95	0.13	1.8	0.059	0.76	8.7	100.5	4.17	1305	0.33	0.81	2.8	61.7	440	4
E589703		19.9	0.14	2	0.053	0.74	13.1	106	3.99	1230	0.32	1.07	2.6	62.7	520	4.1
E589704		20.5	0.13	2.2	0.035	1.13	16.2	120	2.96	812	0.29	1.12	2.3	62.9	570	4.5
E589705		20.1	0.13	2.3	0.045	1.63	19.5	117.5	2.38	837	0.92	0.79	2.1	38.3	600	5.5
E589706		7.99	0.1	0.9	0.023	1.25	14.3	5.4	0.35	245	11.65	0.2	4.8	17	250	27.8
E589707		17.3	0.12	1.7	0.032	1.87	9.1	121	3.18	1070	1.11	0.6	1.5	44.4	370	6.3
E589708		24.6	0.19	2.8	0.112	1.83	8.2	105	1.83	915	1.33	0.47	3.1	11.3	920	10.1
E589709		25.1	0.21	3.7	0.152	1.56	10.9	99.3	1.66	1195	1.33	0.47	6.5	0.4	1240	5.9
E589710		24.4	0.18	3.9	0.148	1.51	11.4	83	1.52	1220	1.19	0.42	5.9	1.4	1370	5.6
E589711		26.6	0.22	4.7	0.159	1.68	12.1	94.2	1.13	1150	1.25	0.52	6.7	1.2	1370	7.3
E589712		14	0.16	2.9	0.106	1.32	7.5	64.5	1.1	1760	0.58	0.37	2.2	<0.2	890	4.1
E589713		2.17	0.07	0.1	0.016	0.22	2.4	22.8	1.1	2670	0.12	0.06	0.2	<0.2	30	2
E589714		21.2	0.19	3.6	0.138	1.36	10	82.9	1	1005	1.05	0.41	6.1	1.2	1020	6.8
E589715		19.9	0.1	2.5	0.033	2.32	9.5	118.5	0.72	510	1.01	0.54	2.3	6.6	320	5.3
E589716		22.9	0.2	4	0.148	1.47	20.5	103.5	0.77	1125	5.72	0.68	15.2	0.9	1150	6.4
E589717		19.35	0.18	2.8	0.105	0.77	8.5	85	1.57	1555	1	0.76	7.1	0.8	690	3.6
E589718		25.2	0.18	2.4	0.115	0.74	5.7	98.8	2.35	2230	0.95	0.88	5.3	0.7	670	2.7
E589719		25.4	0.18	1.9	0.101	0.83	6.9	129.5	2.16	1775	1.18	0.92	5.2	0.9	580	4.1
E589720		21.5	0.25	2.1	0.097	0.55	6.5	115.5	2.52	2030	1.42	0.85	5.5	<0.2	590	2.6
E589721		20.3	0.24	1.7	0.096	0.45	6.1	114	2.7	2100	0.87	0.79	4.7	<0.2	540	2.3
E589722		20.4	0.24	1.7	0.095	0.48	5.5	107	2.71	1880	1.57	0.8	4.7	<0.2	510	1.7
E589723		21.6	0.27	1.7	0.095	0.43	5.2	106.5	2.63	1820	0.52	0.87	4.5	<0.2	470	2.1
E589724		20.2	0.23	3.8	0.098	0.6	8	100.5	2.01	1710	3.13	1.02	6.8	<0.2	820	3.5



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589685		53.5	<0.002	1.96	0.94	39.8	2	1.3	246	0.19	0.11	0.3	0.636	0.5	0.1	284
E589686		47.1	<0.002	1.24	1.14	44.2	3	1.6	281	0.21	0.05	0.3	0.678	0.5	0.1	300
E589687		55.1	<0.002	3.52	1.06	36.7	2	0.5	237	0.17	0.05	0.3	0.574	0.53	0.1	254
E589688		66.1	0.002	5.33	1.31	35.4	3	0.6	323	0.16	0.08	0.3	0.538	0.63	0.1	252
E589689		47	0.002	1.33	0.97	41.4	3	0.8	237	0.19	0.11	0.3	0.627	0.59	0.1	285
E589690		37.3	<0.002	1.42	0.97	41.1	3	0.6	300	0.2	0.22	0.3	0.658	0.47	0.1	295
E589691		47.4	<0.002	1.53	1.03	17.1	2	0.8	351	0.36	0.06	4.2	0.52	0.63	0.9	151
E589692		53.7	<0.002	2.18	1.11	40.6	3	0.6	291	0.19	0.17	0.3	0.615	0.56	0.1	278
E589693		44.4	0.002	2.32	1.25	41.7	3	0.6	264	0.24	0.56	0.3	0.606	0.41	0.1	278
E589694		50.4	0.002	1.66	1.14	36.5	2	0.7	255	0.19	0.18	0.4	0.603	0.45	0.1	272
E589695		69	<0.002	2.02	1.15	37.1	3	0.7	203	0.18	0.16	0.5	0.573	0.68	0.1	263
E589696		74.3	<0.002	2.25	2.07	11.9	1	0.5	164	0.08	0.05	2	0.133	0.58	0.5	82
E589697		70.2	<0.002	2.68	3.37	13.9	2	0.4	173	0.08	<0.05	1.5	0.134	0.58	0.4	92
E589698		48	<0.002	2.39	2.51	17.5	2	0.7	185	0.22	<0.05	2.7	0.356	0.47	0.7	118
E589699		58	0.002	7.98	4.23	42.7	2	0.6	157	0.16	0.12	0.4	0.562	0.43	0.1	294
E589700		35.9	0.002	0.92	1.87	43.6	2	0.7	182	0.22	0.08	0.4	0.678	0.33	0.1	310
E589701		53.2	<0.002	0.27	1.49	42	2	0.9	211	0.21	0.05	0.3	0.671	0.42	0.1	310
E589702		35.2	<0.002	0.42	1.35	32.6	2	1	202	0.2	<0.05	1.1	0.538	0.39	0.3	246
E589703		46.4	<0.002	1.74	1.17	30.8	2	0.8	223	0.18	<0.05	1.7	0.484	0.38	0.4	218
E589704		48.9	<0.002	0.73	1.03	22.3	2	0.5	212	0.17	0.06	2.3	0.364	0.62	0.6	159
E589705		100.5	<0.002	3.4	1.64	19.9	3	0.6	159.5	0.15	0.22	2.8	0.298	0.81	0.7	123
E589706		61.6	0.003	0.95	7.58	4.6	5	3.6	61.8	1.47	23.7	5.4	0.121	0.26	1.3	27
E589707		109.5	<0.002	1.85	1.56	16.4	2	0.4	155.5	0.13	0.28	1.3	0.236	0.93	0.4	122
E589708		115.5	<0.002	9	5.05	38.5	4	0.8	135	0.25	0.52	0.8	0.635	0.95	0.2	234
E589709		92.9	<0.002	7.81	2.69	34.1	4	1.1	103.5	0.47	0.31	1	0.896	0.88	0.2	39
E589710		96.5	<0.002	7.94	3.7	29.6	4	1.2	122	0.43	0.24	1.1	0.597	0.91	0.3	25
E589711		109	<0.002	8.21	3.86	30.2	4	1.4	86.5	0.49	0.25	1.1	0.723	1.09	0.3	27
E589712		82.1	<0.002	8.06	2.43	21.1	4	0.6	229	0.18	0.26	0.7	0.253	0.71	0.2	45
E589713		16.5	<0.002	0.49	0.35	2	3	<0.2	720	<0.05	0.05	<0.2	0.02	0.13	<0.1	13
E589714		83	<0.002	6.87	3.02	27.5	3	1.2	67.4	0.42	0.16	0.9	0.757	0.91	0.2	44
E589715		120	<0.002	1.85	2.15	7.2	2	0.6	82.3	0.17	<0.05	2	0.175	1.02	0.9	41
E589716		70	<0.002	6.75	2.7	30.9	3	1.2	73.3	0.49	0.21	4.2	0.878	0.68	0.3	42
E589717		52.4	<0.002	4.49	1.46	35	4	0.9	113.5	0.38	0.36	1.1	1.085	0.64	0.2	160
E589718		44	0.003	2.59	1.38	48.8	4	0.7	147	0.36	0.35	0.5	1.74	0.58	0.1	335
E589719		55.6	0.002	2.74	1.28	47.8	4	0.6	147	0.32	0.68	1.6	1.53	0.74	0.2	294
E589720		33.9	<0.002	1.63	1.39	57.8	4	0.7	133	0.37	0.3	0.8	1.495	0.44	0.1	352
E589721		21.8	<0.002	1	1.58	57	3	0.9	154.5	0.34	0.17	0.5	1.58	0.22	0.1	425
E589722		25.2	0.002	0.76	1.47	58.9	3	0.8	161.5	0.34	0.14	0.4	1.56	0.27	0.1	481
E589723		22.6	0.002	0.96	1.46	65.6	4	0.8	173	0.33	0.18	0.4	1.59	0.27	0.1	561
E589724		30.4	0.002	1.34	1.24	44.4	3	0.8	176	0.47	0.13	0.8	1.185	0.36	0.3	278



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589685		5.3	21.6	103	46.4	0.049	
E589686		4.1	23.7	126	46	0.025	
E589687		5.3	20.4	102	42.8	0.073	
E589688		8.1	19.7	76	40.2	0.141	
E589689		8.1	20.9	121	44.1	0.047	
E589690		9.8	21	99	45.6	0.048	
E589691		4.5	16	74	119.5	0.080	
E589692		8.6	18	89	49.2	0.129	
E589693		12.1	22.8	93	50.1	0.084	
E589694		7.6	22.3	91	49.7	0.058	
E589695		12.3	18	86	51.6	0.247	
E589696		1.6	8.7	25	83.4	0.163	
E589697		0.7	6.3	35	80.9	0.078	
E589698		3.4	12.1	92	108.5	0.038	
E589699		3	11.2	109	53.4	0.360	
E589700		5.5	22.7	123	55.6	0.178	
E589701		1.8	24.2	134	51.6	0.526	
E589702		1.6	19.3	101	64.9	0.161	
E589703		6.4	16.9	98	78.5	0.038	
E589704		3	11.7	71	85.4	0.052	
E589705		2.9	17.2	56	95.2	0.777	
E589706		132.5	6.9	28	9	>10.0	18.35
E589707		4.9	10.1	86	63.5	0.055	
E589708		13.4	30.3	70	109	0.132	
E589709		12.6	43	122	144.5	0.162	
E589710		9.6	52.7	87	154.5	0.147	
E589711		9.9	51.4	130	177.5	0.271	
E589712		5.7	36.4	84	112.5	0.961	
E589713		0.6	8.5	25	5.2	0.457	
E589714		11.8	29.5	180	135.5	1.705	
E589715		2.4	8.8	45	88.2	0.089	
E589716		8.8	39.1	93	147.5	0.435	
E589717		13.7	29.7	117	99.1	0.669	
E589718		22.4	34.2	153	87.4	>10.0	15.60
E589719		15.6	32.6	121	66.8	4.82	
E589720		14.7	32.7	124	67.6	0.977	
E589721		7	32.1	148	48.6	0.464	
E589722		11.5	31.4	139	45.3	0.253	
E589723		6	29.2	101	50.6	0.134	
E589724		11.8	32.9	119	116	0.383	



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Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589725	4.18	2.44	5.88	27.7	80	1.3	0.05	3.01	0.25	24	27.3	10	32.2	29	9.02
E589726	3.71	0.85	5.88	30.4	80	1.38	0.05	2.83	0.23	30.3	24.7	9	26.2	32.9	9.88
E589727	5.28	0.87	6.23	89.2	80	1.53	0.08	3.12	0.19	28.9	23.8	14	18.4	31.6	9.43
E589728	5.47	0.61	6.3	166	120	1.46	0.07	3.35	0.2	26.5	30.9	12	16.3	28.8	8.81
E589729	5.46	2.34	6.39	28.4	140	1.35	0.12	4.66	0.19	21	40.5	3	16.5	42.1	10.65
E589730	6.80	0.2	6.72	256	190	1.17	0.07	3.04	0.15	25	27.5	7	23.1	26.6	8.57
E589731	5.46	0.1	6.93	19.6	330	1.42	0.09	2.07	0.05	14.3	3	11	21.9	3.9	1.43
E589732	5.49	0.09	7.46	19.9	520	1.44	0.12	1.46	0.02	16.05	2.8	10	16.45	4.8	0.96
E589733	5.21	0.08	7.44	10.3	540	1.38	0.13	1.54	0.02	14.6	2.5	9	17.15	6.8	0.93
E589734	6.09	0.06	7.62	9.2	510	1.56	0.09	1.15	0.02	15.3	3.4	8	15.8	3.7	1.17
E589735	5.64	0.57	7.66	12.3	460	1.39	0.39	2.69	0.07	13.95	33.7	8	23.6	127	7.2
E589736	5.22	0.43	7.75	23	200	1.47	0.12	4.47	0.09	13.15	35.9	55	15.3	47.7	6.45
E589737	2.39	0.03	6.7	0.8	560	1.12	0.08	1.08	0.03	11.1	3.3	12	2.2	4.7	0.96
E589738	2.94	0.81	9.57	49.3	430	1.54	0.03	6.39	0.1	10.9	39.2	129	20.2	37.6	7.96
E589739	4.08	0.31	4.78	42	180	1.11	0.04	10.35	0.07	5.24	22.8	130	13.3	16	5.31
E589740	4.29	0.11	8.29	18.6	260	1.21	0.03	7.01	0.12	5.69	46.2	77	16.25	28.5	7.99
E589741	3.69	0.14	7.69	9.1	210	0.89	0.04	6.95	0.1	9.7	40	60	11.4	33.5	7.47
E589742	4.27	0.07	6.77	3.7	420	1.14	0.1	1.95	0.04	12.9	4	9	10.4	5.9	1.25
E589743	6.16	0.16	8.07	<0.2	260	0.5	0.1	6.12	0.11	7.21	43.9	44	10.2	40.4	6.91
E589744	5.86	0.21	8.26	<0.2	250	0.39	0.12	6.61	0.15	6.99	53.4	66	7.55	51.1	7.84
E589745	5.67	0.14	7.51	0.8	160	0.37	0.09	6.38	0.13	8.8	44.3	50	7.51	44.9	7.45
E589746	6.18	0.19	6.75	1.4	80	0.41	0.13	5.54	0.16	14.95	58.8	109	2.56	74	8.15
E589747	5.47	0.18	6.76	1	80	0.43	0.11	5.12	0.17	8.14	61.5	80	3.85	73.7	8.61
E589748	5.67	0.2	6.97	3.3	200	0.8	0.08	6.27	0.14	29.7	53.3	168	8.59	85.2	7.63
E589749	5.12	0.21	7.56	0.2	150	0.7	0.07	6.13	0.13	9.76	58	90	9.62	82.9	8.72
E589750	4.95	0.26	8.04	0.3	130	0.75	0.04	6.68	0.13	10.05	54.4	101	14.35	98.6	9.39
E589751	0.07	2.14	2.4	5480	280	0.61	86.3	0.69	0.15	23.5	10.8	226	0.98	90.1	2.31
E589752	5.65	0.41	7.87	5	120	1.01	0.22	5.58	0.17	10.55	50.6	100	15.3	119.5	8.98
E589753	2.94	0.4	6.67	10	150	0.93	0.16	4.86	0.1	9.43	41	86	14.85	131.5	7.94
E589754	2.92	0.49	7.12	9.1	120	0.73	0.17	5.39	0.08	9.77	45.7	100	14.55	178.5	9.46
E589755	2.94	0.56	6.17	42.8	210	0.74	0.12	3.4	0.12	8.33	43.3	74	13.5	110.5	8.48
E589756	3.09	0.8	7.5	44.8	200	0.92	0.02	6	0.19	11.4	40.8	96	12.05	139.5	8.21
E589757	2.90	0.81	7.01	27.7	180	0.89	0.02	4.66	0.11	9.97	43.7	94	11.1	148	8.58
E589758	3.39	0.53	7.22	12.3	150	0.61	0.02	6.09	0.18	10.9	44.6	89	21.7	144.5	9.23
E589759	4.14	0.33	7.83	4.4	100	0.74	0.01	6.06	0.11	11.85	46	103	15.65	102.5	8.88
E589760	4.30	0.35	6.92	4.1	100	0.59	0.02	6.25	0.1	9.01	43.5	85	14.65	115	9.32
E589761	4.07	0.73	8.5	6.4	100	0.67	0.03	7.1	0.13	10.65	62.2	113	14.85	132.5	11.45
E589762	5.44	0.35	7.44	2	80	0.57	0.04	5.75	0.13	10.95	51.5	99	16.5	113.5	9.74
E589763	6.15	0.23	8.02	3.6	60	0.34	0.04	5.59	0.13	10.85	51.5	102	19.3	124.5	10.5
E589764	5.04	0.24	7.93	3.1	60	0.42	0.04	5.69	0.14	12.75	45.8	101	19.5	159.5	9.82



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E589725		18.15	0.22	4.3	0.096	0.58	9.3	87.2	1.35	1460	1.35	1.23	7.2	0.6	880	4.4
E589726		21.1	0.27	4.9	0.134	0.6	11.6	96.1	1.43	1610	1.72	1.32	8.9	<0.2	1090	4.2
E589727		21.3	0.25	5.4	0.121	0.53	11	84.7	1.26	1680	2.06	1.74	9.2	1.1	1140	4.2
E589728		20.6	0.22	4.2	0.107	0.69	10.5	90.3	1.31	1570	1.05	1.64	7.5	<0.2	910	5.6
E589729		20.5	0.25	3.3	0.108	0.65	8.2	77.9	1.81	1800	1.95	1.45	6.4	<0.2	690	4.9
E589730		21.1	0.23	4.1	0.095	0.99	10.3	102.5	1.26	1450	0.72	1.8	6.8	1	810	6.8
E589731		17	0.1	2.1	0.008	1.75	6.8	91.1	0.54	321	0.46	2.15	2	1.6	190	11.2
E589732		18.55	0.11	2.2	0.008	1.91	7.9	88.9	0.32	153	0.29	2.54	1.6	2.2	190	14.9
E589733		17.7	0.11	2.2	0.007	1.97	7	90.5	0.45	170	0.18	2.49	1.7	2.2	190	13.8
E589734		18.35	0.1	2.1	0.007	2.22	7.5	102.5	0.6	175	0.33	2.11	1.9	3.3	190	11.2
E589735		19.85	0.2	2.3	0.043	2.2	6	182	1.78	858	0.74	1.09	2.9	24.3	360	11.3
E589736		18.3	0.2	1.8	0.042	1.53	5.8	154	2.58	864	0.47	1.01	2.5	52.9	300	7.5
E589737		15.9	0.11	2	0.006	1.37	5.5	21.3	0.33	158	0.13	3.54	1.1	5.1	200	6.3
E589738		27.5	0.08	1.9	0.071	2.94	3.8	194	3.21	1120	0.95	0.55	2.2	78	370	8.6
E589739		13.1	0.14	0.7	0.028	1.5	2.2	122	4.29	1180	2.96	0.48	1	53.6	120	3.3
E589740		18.55	0.16	1.1	0.05	1.63	2.1	156	4.11	1180	0.84	0.94	2.5	152	340	4
E589741		20.7	0.4	1.6	0.058	1.09	3.7	130.5	4.08	1220	0.46	0.71	4.2	152	530	4.2
E589742		18.35	0.2	2	0.009	1.96	6.5	130	0.93	258	1.15	1.87	1.8	5.5	190	7.1
E589743		20.6	0.44	1.3	0.048	0.73	2.7	118.5	3.66	1120	0.25	1.6	3.6	159	410	3.8
E589744		21.6	0.48	1.4	0.052	0.72	2.7	134	4.01	1315	0.24	1.52	3.5	174	330	4
E589745		19.6	0.42	1.4	0.051	0.49	3.6	105.5	3.9	1235	0.32	1.26	3.5	147	370	3.2
E589746		17.75	0.44	1.5	0.059	0.16	6.7	126.5	5.27	1285	0.19	1.41	3.5	205	450	3
E589747		18.55	0.46	1.4	0.058	0.16	3.3	133.5	5.35	1295	0.16	1.43	3.2	205	350	2.7
E589748		17.15	0.41	2	0.056	0.25	14.2	110	5.07	1190	0.34	1.22	4.2	186.5	830	2.7
E589749		19.35	0.45	1.5	0.06	0.54	3.8	123	4.47	1345	0.32	0.92	3.7	180	410	2
E589750		21.2	0.47	1.5	0.069	0.84	3.9	129	4.15	1430	0.32	0.99	4.1	144	430	2.5
E589751		6.61	0.14	0.9	0.038	1.25	12.1	6.4	0.34	239	9.79	0.22	4.7	16.5	230	30.1
E589752		21.3	0.44	1.7	0.069	0.89	4.1	130	3.82	1280	0.57	1.08	4.2	130	440	2.8
E589753		18.3	0.39	1.4	0.066	1.18	3.7	123.5	3.15	1165	1.34	0.57	3.6	98.1	400	3.1
E589754		21.1	0.45	1.6	0.074	0.98	3.7	110.5	3.17	1185	0.45	0.65	3.9	82.4	470	4.1
E589755		17.75	0.37	1.4	0.064	1.63	3.2	129.5	2.09	832	0.84	0.43	2.2	72.3	360	6.1
E589756		22	0.41	1.7	0.085	1.69	4.3	172	3.67	1675	0.37	0.39	4	71.8	490	5.3
E589757		21.8	0.4	1.4	0.086	1.34	3.6	157.5	3.11	1395	0.51	0.49	3.9	80.1	510	5.2
E589758		20	0.4	1.5	0.078	1.22	4.2	123.5	3.29	1380	0.81	0.67	4.1	74.7	410	4.4
E589759		21.6	0.42	1.4	0.084	0.65	4.6	102	3.28	1345	0.47	1.34	4.3	76.1	440	2.2
E589760		19.5	0.4	1.3	0.07	0.71	3.5	119.5	3.52	1400	0.6	1.07	3.4	71.4	370	2.1
E589761		23	0.48	1.5	0.087	0.65	4.2	113.5	3.83	1590	0.56	1.35	4.2	84.9	430	2.5
E589762		20.9	0.43	1.6	0.078	0.49	4.2	109	3.38	1340	0.59	1.57	4	78.2	410	2.1
E589763		22.4	0.51	1.7	0.087	0.36	4.2	96.9	3.87	1500	0.35	2.36	4.5	80.8	470	2.5
E589764		21.7	0.43	1.9	0.082	0.33	5	84.7	3.47	1440	0.26	2.24	4.7	72.2	540	2.4



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589725		28.6	<0.002	2.45	1.79	33.7	4	0.8	165.5	0.48	0.1	1	0.909	0.35	0.6	128
E589726		29	<0.002	2.31	1.78	33.6	4	0.9	156.5	0.6	0.08	1.1	0.91	0.35	0.3	69
E589727		26.1	<0.002	1.61	1.26	33.8	4	0.9	176.5	0.61	0.11	1.2	0.913	0.31	1.1	56
E589728		36.6	<0.002	1.43	1.6	33	4	0.9	181.5	0.52	0.06	1.2	0.867	0.4	0.5	107
E589729		31.6	0.003	1.73	1.42	46.2	4	0.8	207	0.44	0.2	0.8	1.215	0.35	0.6	371
E589730		49.6	<0.002	0.58	1.09	33.3	3	0.9	178.5	0.47	0.06	1.4	0.906	0.51	0.6	123
E589731		72.3	<0.002	0.1	0.71	2.9	1	0.4	186.5	0.2	<0.05	1.8	0.103	0.73	0.9	22
E589732		83	<0.002	0.17	0.53	2.3	1	0.4	258	0.17	<0.05	2.1	0.074	0.68	1.1	14
E589733		85.5	<0.002	0.12	0.45	2.3	1	0.5	242	0.17	<0.05	2.1	0.077	0.73	1.1	14
E589734		95.6	<0.002	0.21	0.29	3	1	0.5	171	0.18	<0.05	2.2	0.093	0.68	1.2	23
E589735		84.6	<0.002	2.77	0.76	35.6	3	0.6	177.5	0.24	0.21	1.3	0.79	0.85	0.7	471
E589736		75.5	<0.002	1.63	1.5	37.4	3	0.4	260	0.21	0.18	1.1	0.467	0.63	0.5	275
E589737		47.7	<0.002	0.05	0.13	2.7	1	0.4	397	0.11	<0.05	1.4	0.064	0.27	0.5	18
E589738		136.5	<0.002	3.09	1.4	44.1	2	0.6	226	0.17	0.5	0.7	0.511	1.02	0.3	412
E589739		80.8	<0.002	1.92	1.02	20.6	3	0.2	182	0.07	0.26	0.2	0.22	0.61	0.1	169
E589740		54.5	<0.002	0.41	1.51	28.1	2	0.4	245	0.15	<0.05	0.2	0.56	0.76	0.1	246
E589741		59.8	<0.002	0.31	1.72	35.5	5	0.5	213	0.2	<0.05	0.4	0.668	0.56	0.1	237
E589742		92.2	<0.002	0.25	0.47	3	2	0.4	157	0.13	<0.05	1.9	0.084	0.72	0.9	24
E589743		37.4	<0.002	0.19	0.68	36.6	5	0.4	262	0.17	0.05	0.4	0.56	0.46	0.1	204
E589744		37.9	<0.002	0.22	0.72	44.5	5	0.4	272	0.17	0.06	0.3	0.588	0.4	0.1	239
E589745		33.2	<0.002	0.18	0.72	34.6	5	0.6	239	0.18	<0.05	0.5	0.607	0.27	0.1	236
E589746		7.7	<0.002	0.29	0.63	34.1	4	0.9	241	0.16	0.07	0.8	0.536	0.09	0.2	225
E589747		9.1	<0.002	0.3	0.57	38.7	5	0.7	216	0.16	0.07	0.3	0.57	0.11	0.1	239
E589748		21.1	<0.002	0.22	0.69	34.7	4	0.8	287	0.2	0.05	2.2	0.537	0.17	0.5	213
E589749		34.9	<0.002	0.52	0.6	41	5	0.7	182.5	0.18	0.07	0.3	0.622	0.32	0.1	252
E589750		44.4	<0.002	0.72	0.84	48.2	5	0.8	177.5	0.2	0.05	0.4	0.746	0.46	0.1	317
E589751		59.4	0.003	0.92	8.61	5	7	3	56.5	1.13	30.3	4.6	0.135	0.26	1.1	29
E589752		49.8	<0.002	1.32	0.63	47.3	6	0.7	166.5	0.22	0.12	0.4	0.782	0.5	0.1	320
E589753		61.5	<0.002	2.09	1.04	39.6	5	0.7	103.5	0.18	0.09	0.3	0.671	0.57	0.1	286
E589754		45.7	<0.002	2.21	2.55	46.1	5	0.8	163	0.2	0.07	0.4	0.738	0.49	0.1	326
E589755		73.2	<0.002	6.18	2.93	38.9	4	0.7	84	0.11	<0.05	0.4	0.435	0.62	0.1	281
E589756		68.2	<0.002	4.29	4.99	49.9	6	0.9	143	0.21	<0.05	0.4	0.803	0.67	0.1	353
E589757		43.5	<0.002	4.6	3.37	44.6	5	0.9	115.5	0.19	<0.05	0.3	0.726	0.52	0.1	343
E589758		67.5	<0.002	3.4	1.94	46.1	5	0.9	132.5	0.21	<0.05	0.4	0.746	0.62	0.1	314
E589759		35.8	<0.002	0.72	1.13	47.5	6	0.8	183.5	0.22	0.05	0.4	0.803	0.36	0.1	335
E589760		39.2	<0.002	1.67	0.69	42.9	5	0.7	127	0.16	0.11	0.3	0.723	0.37	0.1	352
E589761		36.1	0.002	1.31	1.08	56.5	7	0.8	169.5	0.2	0.23	0.3	1.005	0.33	0.1	466
E589762		36.7	0.002	0.66	0.67	47.7	6	0.8	163	0.2	0.08	0.4	0.822	0.3	0.1	345
E589763		27.7	<0.002	0.17	0.67	51.2	6	0.9	226	0.23	0.05	0.4	0.921	0.25	0.1	381
E589764		25.8	<0.002	0.33	0.6	45.4	5	0.8	206	0.25	0.08	0.4	0.86	0.21	0.1	339



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589725		7.5	32.3	120	134.5	5.43	
E589726		5.8	38	136	155.5	2.53	
E589727		6.6	35.2	138	170	3.06	
E589728		7.4	37.9	129	129	1.560	
E589729		12.3	32.4	133	107.5	1.925	
E589730		8.2	34.5	137	125	0.069	
E589731		1.2	3.2	39	62.3	0.025	
E589732		0.6	2.2	36	66	0.003	
E589733		0.6	2.1	41	64.4	0.004	
E589734		1	2.5	38	65.4	0.004	
E589735		6.4	15.6	101	70.8	0.049	
E589736		7	14.8	83	55.1	0.235	
E589737		2.2	2	33	63.4	0.002	
E589738		13.6	17.9	93	57.8	1.480	
E589739		5.3	11.5	50	23.2	0.468	
E589740		9	15.5	101	35.7	0.108	
E589741		26.4	25.7	80	51.2	0.042	
E589742		3.6	2.7	34	58.7	0.008	
E589743		1.7	20.8	87	42.2	0.005	
E589744		1.2	20.7	117	43	0.003	
E589745		1.3	21	120	45.5	0.003	
E589746		0.7	19.2	106	47	0.005	
E589747		0.5	19.8	182	42.8	0.005	
E589748		1.3	20.7	96	65.2	0.008	
E589749		1.8	23.1	111	47.7	0.015	
E589750		3.8	25.5	91	49.8	0.021	
E589751		176	6.3	27	6.6	>10.0	24.0
E589752		7.8	26.3	124	56.1	0.056	
E589753		6.1	22.1	79	45.2	0.106	
E589754		6.2	26.7	85	51.5	0.082	
E589755		5.2	20.8	86	49.7	0.159	
E589756		11.8	28.1	120	55.3	0.125	
E589757		10.6	25.7	112	49.4	0.134	
E589758		9.3	26.5	123	47.1	0.147	
E589759		8.8	28.2	77	44.5	0.053	
E589760		6.9	23.2	120	40.9	0.143	
E589761		6	27.9	183	46.6	0.659	
E589762		3.4	26.7	126	50.7	0.678	
E589763		0.9	29.1	97	50	0.032	
E589764		2.1	30.9	104	58	0.020	



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212 Brooksbank Avenue
North Vancouver BC V7J 2C1
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Method Analyte Units LOR	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
Sample Description	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E589765	5.22	0.17	7.27	2.8	70	0.53	0.02	5.52	0.8	10.65	42.8	78	15.1	128.5	9.37
E589766	4.92	0.19	7.19	3.7	100	0.63	0.03	5.81	0.12	10.95	39.1	95	13.15	134	8.42
E589767	6.33	0.22	7.89	0.6	80	0.49	0.03	6.21	0.14	9.67	35.6	126	11.55	180	9.29
E589768	7.91	0.16	7.28	1.2	70	0.38	0.04	5.91	0.13	10	40.7	144	9.15	105	8.86



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Method Analyte Units LOR	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
Sample Description															
E589765	19.85	0.42	1.6	0.071	0.52	4.1	96.3	3.42	1330	0.25	1.35	3.9	63.6	440	1.9
E589766	18.05	0.35	1.6	0.07	0.61	4.5	95.4	3.13	1215	0.51	1.28	3.7	72.7	420	2.4
E589767	16.2	0.29	1.6	0.069	0.51	4	76.9	3.73	1370	0.26	1.59	3.4	61.6	490	1.6
E589768	19.1	0.39	1.5	0.078	0.32	3.8	80.7	3.35	1355	0.26	1.52	3.8	68.1	390	1.4



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E589765		32.3	<0.002	0.4	0.67	43.8	5	0.9	124.5	0.21	0.06	0.4	0.771	0.27	0.1	330
E589766		32.8	<0.002	0.79	0.65	39.5	5	0.7	121	0.19	0.09	0.4	0.758	0.29	0.1	296
E589767		27.9	<0.002	0.36	0.53	37.8	4	0.8	114	0.17	<0.05	0.3	0.816	0.23	0.1	340
E589768		22	<0.002	0.23	0.55	43.7	5	0.8	117	0.19	<0.05	0.3	0.72	0.16	0.1	306



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CERTIFICATE OF ANALYSIS TB07144941

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E589765		2.9	26	396	51.6	0.133	
E589766		4.5	24.9	127	49.6	0.307	
E589767		2.8	22.5	111	48	0.132	
E589768		1.5	24.8	83	47.6	0.011	



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CERTIFICATE OF ANALYSIS TB07144941

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE TB07148857

Project: 244500

P.O. No.:

This report is for 100 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-DEC-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
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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 TB07148857

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
E590025	5.66	0.09	8.01	12.9	20	0.19	0.01	9.23	0.12	5.32	44.1	221	2.36	127.5	7.33	
E590026	2.57	0.07	7.21	0.8	600	0.98	0.12	1.2	0.03	11.65	3.7	14	2.06	10.2	1.02	
E590027	5.39	0.11	7.79	6.4	20	0.22	0.01	8.12	0.1	4.91	43.5	235	1.37	114	6.98	
E590028	5.58	0.12	7.88	3	30	0.19	0.04	8.09	0.13	5.04	42.2	233	10.85	110.5	6.9	
E590029	5.51	0.24	8.09	1.6	50	0.21	0.37	8.53	0.12	5.21	45.8	233	15.85	137.5	7.47	
E590030	4.25	0.17	7.73	1	160	0.46	0.17	7.78	0.1	5.08	43.6	223	56.4	105.5	7.17	
E590031	4.77	0.08	7.47	13.5	170	0.51	0.03	4.99	0.07	9.9	20.2	105	7.08	55.9	3.56	
E590032	3.85	0.13	7.44	1.5	110	0.48	0.11	8.12	0.1	5.23	42.8	221	22.2	126.5	7.15	
E590033	5.16	0.12	7.43	11.5	30	0.22	0.03	7.61	0.13	4.8	42.6	234	4.67	121.5	7.05	
E590034	4.13	0.08	7.75	19.1	20	0.18	0.01	8.23	0.11	5.09	43.1	239	1.79	111.5	7.54	
E590035	5.41	0.08	7.67	13.5	20	0.19	0.01	8.56	0.13	4.98	43.2	243	1.72	109.5	7.49	
E590036	5.78	0.09	7.5	8	20	0.26	0.01	8.97	0.09	4.86	43.1	232	1.83	114.5	7.36	
E590037	5.87	0.1	7.76	10.6	30	0.26	0.01	9.09	0.12	4.93	44.5	232	3.18	116.5	7.52	
E590038	5.20	0.11	7.54	6.3	50	0.26	0.01	7.93	0.12	4.73	41.8	238	12.8	100.5	7.23	
E590039	5.28	0.12	7.52	1.6	40	0.21	0.02	8.85	0.1	4.84	43	236	12.9	108	7.23	
E590040	4.81	0.08	7.66	4.9	20	0.29	0.01	9.19	0.11	4.92	43.9	241	1.78	120.5	7.51	
E590041	5.60	0.08	8.31	10.1	20	0.3	0.02	9.28	0.11	4.77	51.6	253	1.99	140	7.48	
E590042	5.38	0.09	8.09	19.1	20	0.25	0.01	8.47	0.12	4.56	49.4	258	1.84	118.5	7.11	
E590043	5.67	0.08	7.79	10.7	20	0.26	0.01	9.11	0.11	4.73	53.6	242	2.84	114.5	7.96	
E590044	5.03	0.11	8.14	8.1	20	0.22	0.01	8.31	0.13	4.83	53.4	256	2.23	116	7.5	
E590045	5.45	0.11	8.12	8.5	20	0.19	0.02	7.49	0.13	4.63	51.5	266	2.38	117	7.6	
E590046	4.96	0.11	8.01	6.5	140	0.3	0.03	7.96	0.11	16.5	49	249	2.92	118.5	7.06	
E590047	5.66	0.11	8.39	6.9	10	0.19	0.01	7.7	0.16	5.05	52.7	264	2.27	117.5	7.63	
E590048	4.31	0.14	8.55	1.9	20	0.19	0.01	7.63	0.12	4.81	49.9	247	12.05	114	7.35	
E590049	6.15	0.1	8.56	3	20	0.2	0.01	8.96	0.08	4.99	51.7	262	4.05	126	7.71	
E590050	5.79	0.12	8.23	2.1	40	0.34	0.04	9.03	0.12	4.79	51.7	245	8.1	131.5	8.15	
E590051	0.10	2.13	2.58	5780	290	0.73	67.7	0.77	0.19	28.8	10.6	238	1.14	90.4	2.39	
E590052	5.14	0.21	8.44	2.3	140	1.1	0.02	7.07	0.12	4.65	50.8	276	33.9	118	7.69	
E590053	5.27	0.69	8.81	3.8	130	1	0.02	7.83	0.11	5.39	53.7	269	29.2	126.5	7.73	
E590054	5.68	0.12	8.38	3.1	20	0.32	0.01	8.95	0.11	4.91	51.5	251	4.36	121.5	7.91	
E590055	1.91	0.04	7.61	1.1	630	1	0.1	0.95	0.03	12.55	4.4	18	2.78	8.3	1.35	
E590056	4.90	0.15	8.53	2	70	0.46	0.02	7.85	0.16	5	50.9	252	7.66	118.5	7.92	
E590057	2.74	0.37	7.17	5.2	170	0.57	0.03	9.88	0.66	4.56	45.4	227	18.4	113.5	6.84	
E590058	2.43	0.24	7.45	4.1	80	0.58	0.01	9.99	0.09	3.92	43.7	208	11.25	111	7.12	
E590059	5.41	0.1	8.38	4.2	30	0.22	0.01	8.39	0.13	5	50.2	256	4.57	115	7.05	
E590060	5.41	0.15	7.78	2.4	70	0.41	0.01	7.75	0.09	5.88	50.5	128	8.96	138.5	8.44	
E590061	5.36	0.13	7.68	1.8	20	0.47	0.03	6.17	0.1	7.35	54.3	35	4.71	194.5	10.1	
E590062	5.68	0.14	7.39	2.1	20	0.32	0.01	6.05	0.1	7.69	56.2	26	2.54	173	10.15	
E590063	3.62	0.13	7.06	3.1	20	0.34	0.01	6.21	0.1	8.19	53.6	6	2.38	167.5	10.85	
E590064	1.98	0.41	6.66	4.7	30	0.34	0.21	6.61	0.07	8.98	53.2	3	4.11	209	11.05	



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590025		14.65	0.13	0.6	0.053	0.08	2	52.3	3.72	1315	0.25	1.16	1.6	98.2	230	1
E590026		17.4	0.06	2	0.01	1.37	5.9	20.3	0.34	152	0.14	3.62	1.1	14.3	210	7.4
E590027		13.65	0.13	0.6	0.051	0.07	1.8	46.2	3.24	1205	0.24	1.79	1.6	95.5	210	0.6
E590028		14	0.12	0.6	0.05	0.13	1.9	51.1	3.36	1235	0.2	1.89	1.6	94.7	200	0.7
E590029		14.7	0.13	0.6	0.057	0.18	1.9	56.7	3.66	1390	0.22	1.63	1.6	96.5	230	2.1
E590030		14.75	0.14	0.7	0.053	0.95	2	119	3.76	1335	0.14	1.28	1.5	99.1	220	2.5
E590031		15.05	0.09	1.4	0.026	0.55	4.8	49.5	1.59	640	0.28	2.52	1.7	42.6	200	2.7
E590032		14.9	0.13	0.6	0.051	0.42	2.1	73.8	3.5	1250	0.62	1.37	1.5	92.6	200	1.9
E590033		13.6	0.12	0.6	0.051	0.13	1.8	53.7	3.51	1235	0.24	1.41	1.5	92.3	210	2.4
E590034		14.35	0.13	0.6	0.051	0.09	1.9	43	3.73	1350	0.23	1.4	1.5	93.4	220	0.9
E590035		14.3	0.12	0.6	0.053	0.07	1.8	66	3.74	1370	0.27	1.3	1.6	95.4	200	1.2
E590036		13.65	0.12	0.6	0.052	0.07	1.8	63.1	3.5	1295	0.24	1.07	1.5	92.9	210	0.9
E590037		14.3	0.12	0.6	0.053	0.11	1.8	73.8	3.36	1330	0.22	1.39	1.6	97.8	210	0.8
E590038		13.75	0.12	0.7	0.049	0.16	1.7	58.2	3.66	1325	0.53	1.57	1.5	93.1	210	1
E590039		13.95	0.14	0.6	0.052	0.15	1.8	57.2	3.47	1320	0.27	1.4	1.5	92.9	210	1.9
E590040		14.3	0.13	0.6	0.051	0.09	1.8	52.1	3.35	1335	0.33	1.26	1.5	95.7	220	2.7
E590041		14.55	0.15	1.1	0.052	0.09	1.9	69.9	3.56	1340	0.28	1.14	1.8	107	230	0.6
E590042		14.2	0.14	1.2	0.052	0.08	1.7	58.4	3.48	1315	0.33	1.17	1.7	102.5	220	0.9
E590043		14.05	0.16	1.4	0.049	0.1	1.8	86	4.19	1595	0.27	1.24	1.8	101.5	210	0.5
E590044		15.45	0.15	1.3	0.052	0.1	1.9	71.2	3.58	1355	0.3	1.28	1.7	107	210	0.7
E590045		14.35	0.13	1.1	0.049	0.11	1.8	57.3	4.01	1360	0.4	1.12	1.7	101	210	0.8
E590046		14.6	0.15	1.4	0.05	0.15	8.3	53.1	3.94	1395	0.31	1.37	2.1	115.5	350	1.6
E590047		14.9	0.16	0.9	0.052	0.12	2	55	4.07	1355	0.34	1.03	1.8	108.5	220	3.9
E590048		15	0.12	1.2	0.055	0.16	1.9	56.1	3.82	1335	0.3	1.99	1.7	105.5	230	0.9
E590049		15.15	0.13	1.2	0.055	0.18	2	71.8	3.8	1390	0.36	1.04	1.8	105.5	230	0.6
E590050		14.55	0.16	1	0.052	0.3	1.9	93.1	4.25	1465	0.25	0.76	1.6	102.5	230	0.8
E590051		7.11	0.09	1	0.035	1.23	14.9	5.4	0.33	240	11.7	0.2	5.2	16.8	230	26.5
E590052		14.9	0.16	1.4	0.052	0.97	1.8	124	4.2	1385	0.32	1.21	1.8	110.5	220	0.8
E590053		16.4	0.16	1.6	0.061	0.91	2.1	120.5	3.94	1330	0.41	1.36	1.8	109.5	230	1
E590054		14.8	0.13	1.1	0.051	0.24	1.9	66.5	3.88	1490	0.3	0.92	1.8	104.5	220	0.6
E590055		18	0.08	2	0.008	1.54	6.9	22.1	0.39	169	0.27	3.41	1.2	10.7	220	7
E590056		15.3	0.18	1.2	0.053	0.37	2	69.6	3.97	1395	0.36	1.49	1.8	105	220	8.5
E590057		14.15	0.12	1.3	0.052	0.71	1.9	120	3.15	1175	0.85	1.51	1.8	91.1	170	11.6
E590058		12.65	0.12	1.3	0.045	0.4	1.5	76.8	3.34	1380	0.45	1.96	1.4	87.9	190	1.2
E590059		14.95	0.13	1.4	0.054	0.21	2	67.3	3.47	1400	0.31	1.94	1.7	100	220	0.7
E590060		17.15	0.14	1.3	0.066	0.37	2.2	89.7	3.63	1385	0.32	1.35	2.1	68	270	1.2
E590061		17.2	0.16	1.9	0.074	0.16	2.9	69.2	3.71	1475	0.29	1.69	2.6	49	360	0.8
E590062		17.65	0.16	1.8	0.073	0.12	2.9	72.2	3.89	1495	0.23	1.44	2.9	44.8	360	0.6
E590063		17.2	0.16	1.9	0.084	0.1	3.2	66.4	3.37	1500	0.46	1.21	3	30.7	400	0.7
E590064		16.95	0.19	1.9	0.08	0.15	3.6	72.9	3.46	1470	0.4	1.31	3	29.3	420	1.6



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590025		2.6	<0.002	0.11	0.94	40	2	0.5	140.5	0.1	0.05	0.2	0.4	0.03	<0.1	232
E590026		48.7	<0.002	0.09	0.17	2.7	2	0.4	443	0.08	<0.05	1.4	0.065	0.28	0.5	18
E590027		1.7	0.002	0.14	0.64	38.1	2	0.4	109.5	0.09	0.05	0.2	0.38	0.03	<0.1	222
E590028		9.4	<0.002	0.09	0.6	39.3	2	0.4	115	0.09	0.07	<0.2	0.391	0.1	<0.1	225
E590029		14.8	<0.002	0.09	0.69	40.2	2	0.5	113	0.1	0.27	<0.2	0.404	0.13	<0.1	236
E590030		69.6	<0.002	0.4	0.53	37.7	2	0.4	69	0.09	0.14	<0.2	0.372	0.68	<0.1	222
E590031		25	<0.002	0.15	0.6	17.6	2	0.4	112.5	0.12	0.05	1	0.198	0.18	0.5	104
E590032		31.3	0.002	0.31	0.59	36.5	2	0.4	78.1	0.09	0.1	<0.2	0.363	0.3	<0.1	216
E590033		6.9	0.002	0.16	0.85	36.6	2	0.4	109	0.09	0.06	<0.2	0.371	0.07	<0.1	219
E590034		2.5	<0.002	0.09	1.19	38.2	2	0.4	152	0.1	<0.05	<0.2	0.386	0.03	<0.1	227
E590035		2	<0.002	0.08	1.06	38.1	2	0.5	165.5	0.09	<0.05	<0.2	0.382	0.03	<0.1	226
E590036		2.2	<0.002	0.14	0.84	37	2	0.4	137.5	0.09	<0.05	<0.2	0.37	0.03	<0.1	218
E590037		4.9	0.002	0.15	0.71	38.7	2	0.4	120	0.09	<0.05	<0.2	0.381	0.06	<0.1	226
E590038		13.1	0.002	0.24	0.74	36.8	2	0.4	84.7	0.09	<0.05	<0.2	0.372	0.14	<0.1	219
E590039		13.2	<0.002	0.43	0.69	37.9	2	0.5	104.5	0.09	0.05	<0.2	0.371	0.15	<0.1	215
E590040		2.3	<0.002	0.34	0.97	38.5	2	0.4	115.5	0.09	<0.05	<0.2	0.378	0.04	<0.1	221
E590041		2.9	0.002	0.24	1.08	46.2	2	0.5	153	0.11	<0.05	0.2	0.426	0.04	<0.1	233
E590042		2.2	<0.002	0.14	1.06	45.9	1	0.4	130.5	0.1	<0.05	<0.2	0.417	0.03	<0.1	231
E590043		3.4	<0.002	0.29	0.77	45.9	2	0.4	97.1	0.1	<0.05	<0.2	0.412	0.05	<0.1	228
E590044		2.9	<0.002	0.36	0.92	47.8	2	0.4	128	0.11	<0.05	0.2	0.42	0.04	<0.1	231
E590045		3.4	<0.002	0.21	0.98	44.4	1	0.4	120	0.1	<0.05	<0.2	0.428	0.04	<0.1	240
E590046		5.2	<0.002	0.19	0.79	38.6	1	0.5	256	0.12	<0.05	1.5	0.407	0.05	0.3	215
E590047		4	<0.002	0.18	1.2	44.7	1	0.7	163.5	0.1	<0.05	0.2	0.438	0.04	<0.1	242
E590048		10.6	<0.002	0.66	0.67	44.2	1	0.5	131	0.1	<0.05	0.2	0.425	0.11	<0.1	239
E590049		8.9	<0.002	0.24	1.38	46.2	1	0.5	192.5	0.1	<0.05	0.2	0.438	0.1	<0.1	242
E590050		19.1	<0.002	0.49	1.28	44.3	1	0.4	164	0.09	0.05	<0.2	0.413	0.15	<0.1	233
E590051		65	0.004	0.91	6.95	4.5	4	3.5	61.8	1.51	22.5	5.3	0.123	0.29	1.4	26
E590052		66.8	<0.002	0.68	0.59	44.7	2	0.4	109.5	0.1	0.13	<0.2	0.439	0.64	<0.1	242
E590053		61.4	0.002	0.93	0.76	47.6	2	0.5	115	0.11	0.44	0.2	0.45	0.61	<0.1	252
E590054		11.3	<0.002	0.18	1.31	44.4	1	0.5	210	0.1	<0.05	<0.2	0.427	0.09	<0.1	236
E590055		56.7	<0.002	0.08	0.18	3.1	1	0.5	399	0.09	<0.05	1.6	0.079	0.29	0.5	21
E590056		19.9	<0.002	0.3	0.82	43	1	0.4	144	0.1	<0.05	0.2	0.437	0.18	<0.1	237
E590057		43.6	<0.002	1.6	0.81	38.6	2	0.4	112.5	0.09	0.3	<0.2	0.373	0.42	<0.1	229
E590058		22.8	0.002	1.51	0.79	36.1	1	0.4	126	0.08	0.21	<0.2	0.376	0.19	<0.1	217
E590059		8.7	<0.002	0.15	1.89	43.9	1	0.4	205	0.1	<0.05	0.2	0.439	0.08	<0.1	245
E590060		23	<0.002	0.42	1.27	44.3	2	0.4	151.5	0.12	0.05	0.2	0.536	0.2	0.1	292
E590061		6.6	0.002	0.46	0.72	49.4	2	0.5	139	0.16	0.07	0.2	0.67	0.07	0.1	345
E590062		3.5	<0.002	0.49	0.84	48.2	2	0.5	147	0.17	<0.05	0.3	0.692	0.04	0.1	346
E590063		3.3	0.002	0.51	0.88	45.2	2	0.5	140.5	0.19	<0.05	0.3	0.772	0.03	0.1	370
E590064		5.8	0.003	1.2	0.71	43.5	2	0.6	141.5	0.18	0.1	0.3	0.717	0.06	0.1	350



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North Vancouver BC V7J 2C1

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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E590025		0.4	15	80	13.8	0.010	
E590026		2	2.1	31	68.7	0.006	
E590027		0.8	13.8	77	20	0.008	
E590028		0.6	14.2	76	16.5	0.015	
E590029		1.1	15.4	84	23.2	0.133	
E590030		2.4	14	87	21.5	0.051	
E590031		0.7	7.3	41	45.7	0.010	
E590032		1.4	14.1	83	21.6	0.008	
E590033		0.6	13.8	80	15.9	0.009	
E590034		0.4	14.6	79	12	0.007	
E590035		0.4	14.6	79	17.9	0.008	
E590036		0.7	14	72	16.4	0.008	
E590037		0.9	14.4	81	18.3	0.008	
E590038		2.7	14	81	22	0.007	
E590039		3.8	14.2	78	18.9	0.039	
E590040		0.8	14.3	85	17.3	0.004	
E590041		0.7	16.2	90	22.9	0.008	
E590042		0.8	15.5	83	37.6	0.009	
E590043		1.1	15.5	89	39.3	0.006	
E590044		0.9	16.3	87	30.3	0.004	
E590045		0.5	15.2	93	25.2	0.004	
E590046		0.8	14.7	89	30.6	0.005	
E590047		0.4	16	91	24.5	0.006	
E590048		1.1	15.6	87	28.7	0.007	
E590049		0.9	16.4	84	28.2	0.009	
E590050		1	15.7	83	29.8	0.006	
E590051		135	6.8	31	9.6	>10.0	17.35
E590052		5.1	15.1	90	29.7	0.077	
E590053		5.2	17.7	91	43.5	0.107	
E590054		1.5	15.9	89	23.2	0.018	
E590055		2.1	2.1	35	68	0.007	
E590056		4.3	15.9	100	27.5	0.012	
E590057		5	13.4	203	35.3	0.054	
E590058		3.7	13.3	83	37.9	0.040	
E590059		1.3	16.2	87	35.3	0.013	
E590060		2.5	18.7	86	32.1	0.033	
E590061		2	23	104	41.1	0.017	
E590062		2.2	24.6	100	52.3	0.014	
E590063		2.9	24.2	115	42.1	0.100	
E590064		4.6	26.1	104	46.8	0.250	



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Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
E590065	5.69	0.17	7.29	3.1	30	0.45	0.04	5.77	0.09	10.55	58.8	7	4.32	173	11.9	
E590066	5.67	0.25	7.21	3.2	30	0.34	0.08	5.67	0.09	11.8	57.3	6	4.38	216	10.95	
E590067	5.51	0.19	7.41	1.6	30	0.3	0.05	5.61	0.12	8.36	54.8	18	4.45	165.5	10.4	
E590068	5.53	0.17	7.2	2.4	20	0.33	0.04	5.51	0.09	8.4	54.7	6	3.52	183	10.85	
E590069	5.66	0.22	7.28	2.8	20	0.53	0.03	5.66	0.11	10.85	55.9	6	2.76	153.5	10.9	
E590070	5.83	0.31	7.21	2.5	30	0.6	0.02	5.51	0.11	10.55	59.2	3	4.1	181.5	11.9	
E590071	2.78	0.82	6.44	7.5	30	0.51	0.05	7.74	0.11	10.7	58	4	5.84	185	11.3	
E590072	4.23	0.07	7.57	11	480	1.09	0.1	1.9	0.03	15.2	4.2	8	14.05	11	1.3	
E590073	4.22	0.04	7.65	6.1	620	1.3	0.07	1.75	0.02	15.55	3	7	14.5	6.8	1.07	
E590074	4.51	0.1	7.76	9.2	600	1.11	0.09	1.66	0.03	14.6	4.8	12	13.55	17.9	1.46	
E590075	5.31	0.18	7.43	3.3	60	0.63	0.05	6.03	0.09	8.59	50.6	20	5.9	186.5	10.4	
E590076	6.52	0.3	7.3	1.9	30	0.35	0.03	6	0.09	8.83	54.3	11	2.38	167	11.45	
E590077	5.47	0.35	6.85	1.5	30	0.23	0.04	5.46	0.11	10.65	49.6	14	2.19	169	10.65	
E590078	5.58	0.26	6.97	1.5	30	0.3	0.09	6	0.12	11.55	51	8	2.3	173.5	11.65	
E590079	0.89	0.06	7.03	1.3	510	0.83	0.06	1.06	0.02	13.9	4.2	9	2.26	9.1	1.31	
E590080	5.71	0.19	6.57	0.7	40	0.33	0.13	5.61	0.12	11.25	49.1	12	5.1	118	10.35	
E590081	5.67	0.23	6.61	2.2	50	0.22	0.09	5.75	0.12	10.35	49.6	16	9.77	205	10.35	
E590082	5.98	0.15	6.28	1.5	40	0.15	0.01	6.8	0.1	7.76	40.9	23	3.48	115	9.29	
E590083	4.23	0.18	6.49	2.2	110	0.24	0.05	5.41	0.14	10.1	46.2	14	15.2	144	9.44	
E590084	3.64	0.22	7.02	3	150	0.38	0.07	5.7	0.13	19.65	43	116	17.2	170.5	9.8	
E590085	5.66	0.19	6.77	3	190	0.61	0.05	6.82	0.12	33.4	45.4	344	16.65	94	7.48	
E590086	5.13	0.18	7.35	2.3	130	0.31	0.04	5.83	0.14	11.5	46.2	90	14.95	154.5	8.66	
E590087	5.48	0.17	6.86	8.2	100	0.47	0.08	6.35	0.11	25	46.6	236	8.83	131.5	8.18	
E590088	0.07	2.06	2.69	5890	280	0.68	71.6	0.82	0.16	35.2	12.2	227	1.22	96.8	2.44	
E590089	5.54	0.12	7.49	16.5	150	0.24	0.47	7.1	0.13	10.3	44.3	129	16.1	74.7	8.68	
E590090	5.49	0.17	6.95	2.4	70	0.23	0.13	6.08	0.11	9.99	45.1	47	16.9	150	10.05	
E590091	4.27	0.15	7.05	2.2	50	0.22	0.05	5.92	0.14	10.2	48.3	28	9.16	158.5	10.15	
E590092	4.86	0.18	6.83	1.4	50	0.19	0.07	6.32	0.21	10.3	47.9	14	3.4	165.5	9.96	
E590093	5.64	0.13	6.76	1.6	50	0.19	0.04	5.97	0.12	9.84	46.2	12	7.68	157	9.95	
E590094	6.14	0.13	6.93	1.3	40	0.23	0.06	6.09	0.11	11.7	44	10	3.32	131.5	10.5	
E590095	5.70	0.13	6.97	2.4	90	0.42	0.09	5.97	0.12	29.2	40.7	84	5.53	89.8	8.61	
E590096	5.42	0.16	7.61	2	110	0.43	0.1	5.96	0.13	33	39.4	69	6.77	90.9	8.02	
E590097	4.81	0.18	6.42	1.5	50	0.25	0.06	5.4	0.11	7.94	45.3	17	5.98	120.5	8.94	
E590098	5.59	0.22	6.78	2.5	40	0.23	0.08	5.93	0.14	8.75	48.1	18	3.28	171.5	9.35	
E590099	6.08	0.18	6.38	1.2	30	0.21	0.04	5.62	0.12	7.29	42.6	17	2.4	112.5	8.63	
E590100	5.32	0.2	7.31	2.1	40	0.22	0.06	6.15	0.14	9.43	47.6	17	3.07	160	10	
E590101	3.90	0.2	7.24	2.7	30	0.2	0.02	6.11	0.14	9.43	48.4	12	2.86	169	10.7	
E590102	5.59	0.17	6.97	2.9	30	0.21	<0.01	5.84	0.16	8.62	48.7	14	3.39	156	9.89	
E590103	5.14	0.31	7.07	5.1	30	0.22	0.04	6.4	0.16	8.28	51.8	14	2.24	351	10.05	
E590104	5.61	0.23	6.91	4.3	20	0.2	0.01	5.75	0.15	7.96	46.8	12	1.83	213	9.82	



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590065		19.1	0.18	2.8	0.094	0.14	4	74	3.6	1675	0.39	1.68	3.6	31.9	500	1.1
E590066		22.5	0.14	1.5	0.094	0.14	3.9	70.5	3.31	1625	0.41	1.85	3.3	38.1	430	1.4
E590067		18.4	0.2	2.1	0.077	0.17	3.3	72.3	3.62	1550	0.38	1.89	3	40.4	380	1.6
E590068		17.8	0.17	1.6	0.076	0.11	3.4	62	3.48	1490	0.42	1.7	3	34.9	390	1.4
E590069		21.2	0.14	1.6	0.083	0.1	3.5	77.3	3.63	1505	0.25	1.37	3	38.8	420	1.1
E590070		19.85	0.19	2.2	0.093	0.13	4.2	70.9	3.37	1650	0.57	1.04	3.7	27.8	470	2.7
E590071		19.05	0.18	2.2	0.09	0.19	4.6	57.6	3.47	1610	0.95	0.85	3.4	25.2	460	4.4
E590072		18.8	0.07	2.2	0.013	1.65	7.8	67.8	0.42	218	0.36	2.95	1.8	3.6	200	10.7
E590073		18.9	0.08	2.3	0.01	2.12	8.3	70.1	0.33	184	0.31	2.58	1.7	3.8	200	12.3
E590074		18.3	0.08	2.2	0.011	1.81	7.7	80.1	0.48	215	0.91	2.66	1.7	5.2	200	9.5
E590075		18.45	0.19	2	0.069	0.24	3.5	66.8	3.63	1485	1.57	1.39	2.8	37.2	370	3.2
E590076		17.8	0.19	2	0.084	0.13	3.6	62.7	3.69	1700	0.42	1.68	3	37.3	420	1.7
E590077		18.4	0.13	1.3	0.091	0.13	3.6	62.8	3.54	1465	0.37	1.56	2.5	39.5	340	5
E590078		19.3	0.13	1.4	0.097	0.13	3.8	44.1	3.56	1570	0.37	1.61	2.6	35.5	390	2.9
E590079		17.65	0.05	1.9	0.009	1.38	6.4	16.9	0.4	166	0.15	3.23	1	7.4	190	6.3
E590080		19.8	0.15	1.4	0.103	0.2	3.8	39.8	3.34	1485	0.26	1.74	2.6	38.3	350	3
E590081		18.9	0.14	1.2	0.1	0.18	3.5	46.7	3.46	1480	0.25	1.47	2.3	34.7	310	2.5
E590082		15.4	0.11	1	0.079	0.15	2.6	37.2	3.32	1410	0.26	1.47	1.8	37.1	260	2
E590083		18.05	0.13	1.1	0.084	0.29	3.4	62.3	3.38	1490	0.16	1.55	2.3	40.7	320	2.4
E590084		16.65	0.12	1.5	0.082	0.33	7.9	57.9	4.1	1520	0.24	1.78	2.8	47.5	560	4.4
E590085		16.05	0.11	2	0.068	0.35	14.3	42.5	5.15	1370	0.35	1.88	3	101.5	770	4.7
E590086		17.15	0.13	1.2	0.073	0.26	4.2	61.8	4.36	1520	0.3	2.43	1.9	59.6	310	2.6
E590087		15.9	0.12	1.6	0.067	0.23	10.4	53.1	4.96	1475	0.47	1.91	2.6	88.8	600	3.6
E590088		7.96	0.08	0.9	0.03	1.23	16.1	6.7	0.37	248	11.1	0.22	4.8	17.9	220	27.9
E590089		17.65	0.12	1.1	0.081	0.33	3.7	56.6	4.35	1480	0.28	1.87	2	62.2	300	3.1
E590090		18.05	0.13	1.2	0.088	0.25	3.4	48	3.76	1485	0.41	1.61	2.3	41.4	340	2.5
E590091		19.1	0.14	1.2	0.088	0.17	3.5	62.2	3.87	1535	0.4	1.67	2.3	42.6	320	2.4
E590092		18.35	0.13	1.1	0.094	0.17	3.5	48.9	3.52	1540	0.31	1.56	2.3	40.6	320	2.8
E590093		18.1	0.14	1.2	0.088	0.15	3.3	48.4	3.56	1520	0.28	1.62	2.3	38.9	300	2
E590094		18.4	0.12	1.4	0.096	0.15	3.9	46.6	3.6	1535	0.35	1.66	2.7	34.1	410	2.4
E590095		19	0.13	1.9	0.097	0.21	12.5	51	3.48	1465	0.29	1.96	3.1	68.4	440	4.2
E590096		19.55	0.12	2.2	0.087	0.23	14.5	59.3	3.75	1410	1.63	2.4	3.1	70.8	480	4.5
E590097		16.7	0.13	1.1	0.084	0.19	2.6	52.9	3.74	1495	0.29	1.87	1.8	46.7	240	2.9
E590098		17.8	0.13	1.1	0.082	0.14	2.8	53.2	3.79	1470	0.26	1.67	2.1	48.1	280	2.9
E590099		15.9	0.12	0.8	0.073	0.12	2.5	46.6	3.51	1350	0.26	1.58	1.7	42.8	230	2.8
E590100		18.5	0.13	1	0.085	0.16	3.3	46.7	3.92	1580	0.17	2.06	2	46.7	290	3
E590101		18.45	0.14	1.2	0.09	0.12	3.2	49.1	3.9	1710	0.24	1.96	2.1	42.1	320	2.6
E590102		18.5	0.13	0.9	0.08	0.12	2.8	63.6	3.75	1610	0.2	1.83	2	46	270	2.8
E590103		18.1	0.14	0.9	0.082	0.08	2.7	49.2	3.55	1585	0.3	1.67	2	47.5	270	2.7
E590104		17.1	0.12	0.8	0.076	0.07	2.6	52	3.89	1565	0.22	1.59	1.8	43.5	270	2.3



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	
E590065	4.4	0.003	0.4	0.77	50.5	2	0.7	182	0.22	<0.05	0.3	0.816	0.05	0.1	381	
E590066	5.4	0.002	0.3	0.66	48.2	1	0.6	195.5	0.2	0.08	0.3	0.77	0.06	0.1	370	
E590067	6.7	<0.002	0.07	0.52	50.8	2	0.6	236	0.18	<0.05	0.3	0.693	0.06	0.1	351	
E590068	3	0.002	0.28	0.61	47.1	2	0.6	153	0.17	0.07	0.3	0.726	0.04	0.1	359	
E590069	3.3	0.002	0.33	0.68	48.4	1	0.5	136	0.2	0.05	0.3	0.783	0.04	0.1	378	
E590070	5.6	0.002	0.75	0.84	49	2	0.7	149.5	0.24	0.06	0.3	0.868	0.06	0.1	399	
E590071	9.9	0.002	1.51	1.11	45.9	3	0.7	145	0.21	0.32	0.3	0.794	0.1	0.1	372	
E590072	84.2	<0.002	0.29	0.37	3.4	1	0.5	196	0.13	<0.05	2.2	0.112	0.63	1	33	
E590073	97.6	<0.002	0.15	0.33	2.2	1	0.5	253	0.13	<0.05	2.2	0.093	0.7	0.9	16	
E590074	88.9	<0.002	0.36	0.32	4.1	1	0.5	198.5	0.13	0.1	2	0.109	0.57	0.9	39	
E590075	10.7	0.002	0.72	0.78	43.1	2	0.5	149.5	0.17	0.08	0.4	0.659	0.11	0.1	325	
E590076	3.8	0.002	0.19	0.71	46.9	2	0.6	161.5	0.19	<0.05	0.3	0.757	0.05	0.1	364	
E590077	5.8	0.003	0.29	0.86	48.7	1	0.6	161.5	0.2	0.13	0.3	0.653	0.06	0.1	350	
E590078	3.8	0.002	0.46	0.61	47.4	1	0.6	131	0.21	0.21	0.3	0.727	0.05	0.1	391	
E590079	48	<0.002	0.06	0.14	3.9	<1	0.5	401	0.09	0.05	1.6	0.079	0.29	0.6	25	
E590080	5.5	0.002	0.37	0.5	48	1	0.8	102	0.2	0.1	0.3	0.618	0.06	0.1	327	
E590081	8.3	0.002	0.55	0.81	47.2	1	0.6	95.6	0.19	0.14	0.3	0.631	0.1	0.1	338	
E590082	4.2	0.002	0.4	0.55	40.2	1	0.6	91.8	0.14	0.1	0.2	0.536	0.05	0.1	299	
E590083	15	0.002	0.36	0.63	48.2	1	0.7	105	0.18	0.11	0.3	0.566	0.16	0.1	310	
E590084	13.9	<0.002	0.66	0.89	41.5	1	0.8	195	0.22	0.13	1.2	0.574	0.16	0.3	291	
E590085	13.3	<0.002	0.08	0.81	39.2	1	0.8	374	0.23	0.05	2.7	0.414	0.15	0.6	230	
E590086	10	<0.002	0.22	1.26	49.3	1	0.9	288	0.16	0.06	0.6	0.452	0.11	0.1	269	
E590087	8.9	<0.002	0.2	1.35	43.3	1	0.9	301	0.2	0.07	1.9	0.443	0.09	0.4	246	
E590088	62	0.003	0.89	7.8	5.9	5	3.9	64.8	1.62	23.8	6.4	0.123	0.32	1.5	29	
E590089	14.9	<0.002	0.16	0.79	49	1	0.6	115	0.18	0.19	0.4	0.484	0.15	0.1	275	
E590090	12.3	0.002	0.45	0.66	47.1	1	0.6	103	0.18	0.2	0.3	0.596	0.14	0.1	321	
E590091	7.7	0.002	0.34	0.68	50.6	2	0.6	115.5	0.18	0.14	0.3	0.614	0.09	0.1	333	
E590092	5.2	0.002	0.31	0.71	48.8	1	0.7	119	0.18	0.12	0.3	0.577	0.06	0.1	321	
E590093	6.3	0.002	0.23	0.63	50.5	1	0.6	109.5	0.18	0.08	0.3	0.586	0.07	0.1	320	
E590094	3.2	0.002	0.26	0.81	46.9	1	0.7	117	0.21	0.1	0.3	0.588	0.04	0.1	298	
E590095	6.4	<0.002	0.19	0.59	38.9	1	1.1	251	0.22	0.08	2.3	0.619	0.07	0.7	251	
E590096	7.9	0.002	0.14	0.47	38	1	1.1	303	0.22	0.06	2.9	0.605	0.08	0.8	234	
E590097	6.8	0.002	0.16	0.58	50.5	1	0.5	120.5	0.14	0.07	0.2	0.489	0.08	0.1	285	
E590098	3.7	<0.002	0.3	0.55	51.7	1	0.6	110	0.16	0.11	0.2	0.518	0.05	0.1	302	
E590099	3.1	0.002	0.19	0.43	46.4	1	0.7	117	0.13	0.08	0.2	0.464	0.04	0.1	262	
E590100	4	<0.002	0.18	0.77	52.2	1	0.6	170	0.16	0.07	0.3	0.556	0.05	0.1	321	
E590101	3	0.002	0.17	0.9	51.9	1	0.7	174.5	0.17	0.06	0.2	0.614	0.05	0.1	337	
E590102	3.7	0.002	0.16	0.67	54.2	1	0.7	149	0.15	0.07	0.2	0.543	0.04	0.1	312	
E590103	2.3	0.002	0.98	0.78	54.2	2	0.7	136	0.16	0.17	0.2	0.547	0.04	0.1	321	
E590104	1.6	0.002	0.43	0.86	50.8	1	0.7	178	0.14	0.1	0.2	0.538	0.03	<0.1	317	



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E590065		1.4	32	111	68.5	0.041	
E590066		5.7	29.9	107	43.7	0.018	
E590067		0.7	25.8	106	49.9	0.053	
E590068		2.6	25.4	106	42.3	0.017	
E590069		2.1	28.5	112	45.9	0.041	
E590070		7.6	31.3	119	51.4	0.166	
E590071		15.3	30.4	106	54.1	0.228	
E590072		2.1	3.3	40	72.6	0.031	
E590073		1.7	2.4	40	70.6	0.012	
E590074		3.8	3.4	36	67.5	0.151	
E590075		3.3	22.9	101	48.5	0.108	
E590076		2.9	26.3	115	46.5	0.026	
E590077		1.2	23.1	89	38	0.134	
E590078		1.3	24.1	104	41.3	0.091	
E590079		2	2.3	35	68	0.004	
E590080		2.4	24.2	103	41	0.029	
E590081		1.3	21.9	92	33.7	0.016	
E590082		2.3	17.1	93	29.9	0.034	
E590083		1.1	22.5	102	35.4	0.012	
E590084		2	21.5	103	49.2	0.032	
E590085		1	17.5	85	63.7	0.014	
E590086		2.4	18.9	88	35.3	0.015	
E590087		0.9	18	87	54	0.010	
E590088		142.5	7.1	27	9.6	>10.0	17.55
E590089		2.3	19.1	93	31.9	0.016	
E590090		1.1	21.9	93	36.6	0.017	
E590091		0.8	22.4	94	34.7	0.021	
E590092		1	22.7	117	32.7	0.009	
E590093		0.6	21.7	99	34.2	0.016	
E590094		0.7	25.6	101	41.5	0.013	
E590095		0.8	19.4	105	60.1	0.011	
E590096		0.6	17.4	93	72.9	0.017	
E590097		0.4	18.3	94	31.2	0.022	
E590098		0.5	20.2	97	32	0.013	
E590099		0.7	17.1	86	23.7	0.036	
E590100		0.5	20.1	105	30.5	0.015	
E590101		0.4	22.1	119	32.3	0.018	
E590102		0.5	20.5	107	28.2	0.040	
E590103		1	19.8	109	26.3	0.041	
E590104		0.5	18.9	106	24.7	0.028	



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590105	5.85	0.17	6.66	2.1	20	0.23	<0.01	6.04	0.12	7.82	44.4	19	1.97	109.5	9.1
E590106	5.80	0.17	7.01	1.9	20	0.32	0.01	7.07	0.11	8.65	45.6	14	2.23	88.9	9.55
E590107	5.40	0.34	8.04	8.2	180	0.58	0.02	5.35	0.09	7.38	42.8	289	13.7	77.8	6.9
E590108	2.89	0.4	7.73	21.7	180	0.43	0.02	3.97	0.06	4.67	40.5	256	7.71	90.8	6.79
E590109	0.07	1.41	2.79	6150	300	0.72	70.3	0.84	0.16	32.1	11.2	239	1.08	94.6	2.54
E590110	3.14	0.46	3.28	88.3	70	0.36	0.42	3.9	0.26	3.99	19	99	3.5	73	3.99
E590111	2.53	0.27	4.65	72.8	130	0.66	0.05	3.63	0.08	4.56	24.7	144	6.27	43.7	4.78
E590112	3.08	0.17	7.09	18.2	380	1.29	0.32	2.57	0.04	15.3	12.3	49	20.5	27.6	2.24
E590113	4.98	0.15	7.77	16.9	490	0.97	0.16	2.78	0.05	16.25	7.9	26	19.4	20.3	1.89
E590114	3.69	0.22	7.48	16.5	450	0.82	0.29	4.12	0.08	15.9	12.5	47	24	29.1	2.66
E590115	5.25	0.17	7.95	11.4	480	0.92	0.17	2.68	0.06	18.85	10.3	35	22.6	32.2	2.19
E590116	4.67	0.16	7.81	12.2	470	0.85	0.14	3.08	0.06	17	9.8	39	21.1	23.6	2.22
E590117	5.20	0.17	7.66	12.6	460	0.92	0.11	3.64	0.06	16.6	12.5	47	22.3	32.6	2.58
E590118	5.14	0.36	7.81	8.9	230	0.59	<0.01	8.12	0.16	6.58	47.1	233	13.75	120.5	7.81
E590119	4.60	0.23	7.59	2.9	110	0.21	<0.01	7.77	0.15	5.74	42.7	232	8.71	114	7.64
E590120	4.74	0.19	7.75	3.5	130	0.15	<0.01	6.75	0.16	5.84	44.1	239	15.15	112.5	7.89
E590121	5.63	0.14	7.69	3.9	30	0.17	<0.01	8.31	0.12	5.7	43.9	234	1.67	115	7.64
E590122	5.51	0.11	8.07	17.3	20	0.15	<0.01	8.57	0.13	6.08	46.2	249	1.83	122	8.05
E590123	5.18	0.11	8.18	56.6	20	0.14	<0.01	8.32	0.13	6.16	46.6	253	1.52	120	8.53
E590124	5.43	0.12	8.22	91.3	20	0.16	<0.01	8.44	0.14	6.24	49.4	252	2.07	125.5	8.54



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	
E590105	16.8	0.13	0.9	0.078	0.08	2.6	45.4	3.55	1455	0.15	1.65	1.8	45.3	260	2.5	
E590106	18.15	0.12	1	0.086	0.07	2.8	40.3	3.68	1485	0.2	1.27	2.1	44.1	300	3	
E590107	17.7	0.12	1.1	0.051	0.82	2.7	128.5	6.36	1275	1.07	0.78	1.2	108.5	200	5.4	
E590108	15.1	0.11	0.8	0.044	0.93	1.5	166	7.28	1215	0.29	0.15	0.8	120.5	160	4.3	
E590109	7.57	0.08	0.9	0.029	1.29	14.7	7.9	0.39	256	10.05	0.21	4.4	16.7	250	26.1	
E590110	7.36	0.07	0.4	0.024	0.37	1.4	94	4.22	863	0.71	0.08	0.5	41.8	80	9.9	
E590111	10.6	0.07	0.6	0.018	0.64	1.7	133	4.96	854	0.39	0.09	0.7	56.8	70	8.8	
E590112	21.5	0.06	1.9	0.039	1.37	6.3	102.5	1.11	404	0.33	2.3	1.6	25.2	200	11.4	
E590113	19.35	0.11	2.5	0.016	1.58	7.7	71.2	0.72	317	0.22	2.86	1.9	16.3	230	11.6	
E590114	19.5	0.15	2.3	0.019	1.37	7.7	75	1.05	479	0.3	2.68	1.9	26.6	220	13.2	
E590115	21.4	0.15	2.5	0.016	1.66	9.2	74.6	0.83	324	0.27	2.86	2	21.3	230	12.2	
E590116	20.3	0.15	2.4	0.016	1.44	8.2	68.1	0.78	361	0.22	2.85	1.9	20.4	200	12.6	
E590117	19.55	0.16	2.3	0.019	1.64	7.9	93.9	1.12	462	0.29	2.18	2	24.8	210	9.7	
E590118	16.5	0.18	1	0.053	0.93	2.5	83	4.17	1340	0.29	0.59	1.7	103.5	220	5.8	
E590119	15.4	0.16	0.9	0.054	0.42	2.1	67	4.46	1280	0.18	0.88	1.7	99.5	200	2.4	
E590120	15.5	0.16	0.9	0.053	0.46	2.2	89.7	4.5	1270	0.31	1.13	1.6	101	210	1.9	
E590121	15.05	0.15	0.7	0.059	0.06	2.1	49.5	3.83	1350	0.27	1.6	2	101.5	200	1.5	
E590122	16	0.14	0.7	0.058	0.05	2.2	59.6	3.96	1410	0.22	1.53	1.8	103.5	230	1.3	
E590123	16.65	0.15	0.7	0.06	0.06	2.2	54.6	4.42	1455	0.25	1.53	1.9	108	220	1	
E590124	17.5	0.15	0.8	0.063	0.07	2.3	59	4.65	1500	0.24	1.29	1.8	110	210	1	



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590105		2.1	<0.002	0.28	0.77	50.5	1	0.5	147	0.14	0.08	0.2	0.491	0.03	0.1	283
E590106		1.8	<0.002	0.42	1.21	51.9	1	0.7	154.5	0.16	0.09	0.2	0.543	0.02	0.1	308
E590107		37	0.002	0.94	0.95	43.5	1	0.5	137	0.1	0.09	0.4	0.293	0.36	0.1	211
E590108		41.3	<0.002	1.26	1	40.3	1	0.5	55.7	0.07	0.08	<0.2	0.257	0.36	<0.1	194
E590109		60.3	0.003	0.94	7.24	5.9	4	3.8	60.8	1.17	22	5.9	0.127	0.3	1.6	30
E590110		19	<0.002	2.32	1.24	22.1	1	0.3	37.4	0.05	0.18	<0.2	0.126	0.16	<0.1	97
E590111		33.6	<0.002	2.74	1.57	30	1	0.4	53.4	0.06	0.1	<0.2	0.197	0.25	<0.1	139
E590112		52.3	<0.002	0.66	0.7	13.6	1	0.8	298	0.16	<0.05	1.8	0.151	0.53	0.8	62
E590113		55	<0.002	0.39	0.69	6.5	1	0.7	371	0.17	<0.05	2	0.132	0.55	1	44
E590114		58.6	<0.002	0.77	0.71	10.4	2	0.5	383	0.18	0.05	1.8	0.161	0.63	0.9	58
E590115		69.7	<0.002	0.36	0.55	8.6	1	0.6	336	0.19	<0.05	2.4	0.154	0.67	1	50
E590116		61.5	<0.002	0.55	0.7	8.8	2	0.6	353	0.18	<0.05	2	0.152	0.59	1	49
E590117		68.4	<0.002	0.44	0.51	10.3	1	0.6	305	0.18	<0.05	1.8	0.164	0.69	0.9	57
E590118		46.3	<0.002	0.85	1.2	41.7	2	0.7	222	0.12	0.08	0.2	0.392	0.43	0.1	223
E590119		21.2	<0.002	0.24	1	39.5	2	0.5	161	0.14	<0.05	0.2	0.382	0.2	0.1	218
E590120		26.1	<0.002	0.42	0.69	40.5	2	0.5	133	0.13	<0.05	0.2	0.396	0.27	0.1	223
E590121		1.9	<0.002	0.15	1.09	39.4	2	0.6	194.5	0.24	0.05	0.2	0.395	0.04	0.1	223
E590122		1.4	<0.002	0.16	1.55	41.8	2	0.5	257	0.14	<0.05	0.2	0.414	0.02	0.1	238
E590123		1.3	<0.002	0.14	1.33	43.3	2	0.6	221	0.13	<0.05	0.2	0.422	0.02	0.1	245
E590124		1.8	<0.002	0.07	1.68	44.4	2	0.5	263	0.14	0.05	0.2	0.416	0.03	0.1	238



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CERTIFICATE OF ANALYSIS TB07148857

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E590105		0.7	19.1	93	30	0.007	
E590106		1.2	20.9	95	33	0.012	
E590107		11.5	13.7	95	36.6	0.053	
E590108		2.5	11.9	82	26.9	0.053	
E590109		134.5	6.5	28	10.3	>10.0	18.60
E590110		1.5	7.1	99	13.4	0.180	
E590111		1.6	8.2	70	21.6	0.095	
E590112		3.6	4.9	43	69.2	0.054	
E590113		2.4	4.5	50	75.2	0.021	
E590114		8.6	6	62	70.6	0.036	
E590115		3.3	5	56	74.4	0.019	
E590116		2.5	5.2	51	73.2	0.026	
E590117		2.7	5.9	55	69.9	0.019	
E590118		6.3	17.7	87	29.6	0.026	
E590119		1.2	16.5	78	25.2	0.035	
E590120		0.8	16.5	123	25.9	0.066	
E590121		0.6	16.9	78	26.3	0.014	
E590122		0.6	17.9	80	18.4	0.008	
E590123		0.7	18.2	88	18	0.010	
E590124		0.6	18.6	88	15.6	0.016	



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CERTIFICATE OF ANALYSIS TB07148857

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.



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CERTIFICATE TB07149576

Project: 244500

P.O. No.:

This report is for 30 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-DEC-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

To: TECK COMINCO LIMITED
ATTN: LISA VONDRASEK
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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 TB07149576

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590299	1.58	0.1	6.94	1.6	540	0.91	0.08	1.12	0.31	12.6	4.4	25	2.41	7.5	1.13
E590300	4.61	0.22	7.14	9.1	550	1.01	0.11	1.8	0.11	13.2	5.4	25	9.11	11.8	1.29
E590301	4.12	0.2	6.81	10.2	460	0.99	0.12	1.64	0.08	12.55	4.6	14	8.11	9.4	1.26
E590302	3.89	0.18	6.55	8.5	490	0.93	0.15	1.52	0.07	12	4.1	14	7.07	8.2	1.17
E590303	5.10	0.33	6.57	9.3	450	0.92	0.16	2	0.13	11.55	4.4	14	6.83	9.1	1.3
E590304	5.78	3.79	5.8	8.3	430	0.93	0.24	3.93	0.07	16.3	6.2	29	10.7	10	1.52
E590305	4.16	0.65	6.45	17.4	440	0.89	0.12	1.99	0.04	13	7.2	29	13.55	12	1.75
E590306	4.82	0.42	6.5	12.7	360	0.71	0.26	1.97	0.03	12.7	4.7	23	10.55	9.3	1.5
E590307	3.59	3.98	7.07	32.6	410	1.2	0.79	6.78	0.09	12.15	29.1	79	20	66.9	5.08
E590308	4.19	0.45	7.45	11.5	300	1.09	0.17	5.08	0.08	10.05	35	112	24.1	88.9	5.79
E590309	5.59	0.37	7.91	4.2	210	0.7	0.06	6.55	0.14	8.4	51.8	171	10.55	133.5	8.71
E590310	4.62	0.32	7.83	3	190	0.53	0.05	6.44	0.17	7.71	51.6	169	10.35	128.5	8.86
E590311	3.97	0.37	7.63	1.7	250	1.15	0.07	7.13	0.15	8.11	47.8	159	14.75	131.5	8.34
E590312	3.61	0.45	7.74	3.7	230	1.08	0.1	6.92	0.24	9.53	41.2	146	17.75	136.5	8.22
E590313	3.42	0.48	6.91	10.7	310	0.94	0.66	6.03	0.14	10.45	29.4	93	19.05	107	5.42
E590314	1.23	0.13	7.62	2.9	510	1.22	0.21	4.1	0.05	76.7	16.4	21	22.5	26	3.42
E590315	2.84	0.26	6.82	14.2	360	0.95	0.66	2.51	0.07	12.6	13.6	50	14.05	39.5	2.49
E590316	4.28	0.22	6.91	14.2	340	0.94	0.27	1.53	0.12	12.45	5.5	23	10.9	14.1	1.46
E590317	5.17	0.2	6.67	11.7	350	0.95	0.26	1.64	0.12	11.45	3.8	17	9.39	10.5	1.18
E590318	5.04	0.34	6.65	9.6	530	1.08	0.32	1.47	0.09	12.35	3.4	17	7.36	10.7	1.12
E590319	5.86	0.31	6.58	11.8	380	0.95	0.3	1.48	0.09	10.9	3.5	17	8.03	8.9	1.15
E590320	4.80	1.37	7.03	13	400	0.63	0.11	1.58	0.03	12.85	4.2	21	7.98	22.6	1.34
E590321	5.51	0.3	6.79	16.2	390	1.02	0.13	1.95	0.04	11.9	4.3	23	10.05	8	1.35
E590322	1.78	0.05	7.03	0.3	490	0.73	0.06	1.16	0.04	10.6	3.1	21	2.21	3.8	1.15
E590323	2.31	0.19	6.75	11.7	310	0.84	0.08	2.42	0.05	12.35	7.1	29	21.9	15.9	1.9
E590324	1.49	0.59	7.26	9.2	240	0.62	0.16	6.81	0.13	8.77	41.5	164	24.2	102.5	7.53
E590325	3.58	0.31	7.93	4	160	0.5	0.02	7.18	0.17	7.23	47	189	14.1	144	9.16
E590326	5.07	0.26	7.53	0.6	100	0.51	0.02	8.02	0.17	7.24	44.2	163	7.62	124.5	8.18
E590327	3.31	0.32	7.77	4.2	110	0.36	0.04	6.65	0.18	7.72	45.9	167	13.45	149.5	8.7
E590328	6.48	0.27	7.86	1.2	150	0.48	0.05	6.76	0.17	8.11	45.6	166	17.95	113.5	8.74



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CERTIFICATE OF ANALYSIS TB07149576

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590299		17.85	0.06	2.2	0.015	1.44	6.2	24	0.44	179	0.3	3.39	1.3	16.5	190	20.3
E590300		18.9	0.07	2.4	0.015	1.53	6.4	57.4	0.58	234	0.81	2.92	1.2	15.1	230	63.8
E590301		17.75	0.07	2.3	0.012	1.51	6	62.9	0.54	214	0.87	2.94	1.2	8	210	41.8
E590302		16.9	0.06	2.2	0.012	1.54	5.8	55.4	0.41	183	0.87	2.77	1.1	7.4	210	34.1
E590303		16.7	0.07	2.3	0.014	1.44	5.5	55.9	0.42	252	0.9	2.84	1.2	8.5	210	36.4
E590304		14.5	0.1	1.9	0.011	1.55	8.1	66.2	0.89	654	1.41	2.07	1.3	16.9	220	25
E590305		16.7	0.07	2.2	0.013	1.5	6.1	67.7	0.84	612	0.98	2.84	1.3	17.4	230	17.6
E590306		15.2	0.08	2.1	0.009	1.27	6	55	0.89	412	0.78	3.15	1.1	12.1	230	10.8
E590307		16.35	0.12	1.7	0.034	1.67	5.6	103	2.74	1270	1.93	1.74	1.8	58.5	250	18.5
E590308		17.5	0.12	1.8	0.046	1.56	4.4	92.4	2.2	1035	0.82	1.91	2.4	74.3	250	8.3
E590309		17.45	0.14	1.3	0.063	0.92	3.2	70.9	4.22	1470	0.35	1.12	2.4	115.5	290	7.1
E590310		17.35	0.15	1.4	0.063	0.78	2.9	69.7	4.37	1440	0.27	1.18	2.3	114.5	280	6.5
E590311		17.4	0.15	1.5	0.069	1.12	3.1	73.3	4.01	1400	0.64	1.05	2.4	104	280	6.4
E590312		17.85	0.13	1.5	0.074	1.3	3.9	76.8	3.45	1415	0.65	1.06	2.4	93	310	8.4
E590313		17.35	0.12	1.7	0.04	1.49	4.8	104	2.33	1055	4.52	1.44	1.9	64.2	220	12.2
E590314		21.2	0.15	3.7	0.032	1.44	31.9	79	1.31	626	1.07	4.3	3.2	18.7	1410	8.8
E590315		18.7	0.08	2.2	0.019	1.51	5.7	86.6	0.92	458	7.58	2.97	1.8	27.9	230	11.7
E590316		18.1	0.06	2.3	0.012	1.39	5.9	65	0.63	282	1.93	3.43	1.6	13.6	200	15.8
E590317		16.95	0.06	2.2	0.012	1.29	5.4	48.6	0.42	244	1.09	3.29	1.4	8.7	180	16.5
E590318		16.95	0.06	2.2	0.012	1.38	6	44.2	0.31	215	1.1	3.36	1.3	7.6	180	13.6
E590319		16.7	0.06	2.2	0.014	1.29	5.2	42.7	0.29	215	1.44	3.44	1.3	6.6	180	15.2
E590320		16.65	0.07	2.1	0.01	1.38	6.3	51.5	0.44	251	1.13	3.11	1.1	8	220	17.9
E590321		17.4	0.08	2.1	0.009	1.46	5.7	74.1	0.51	338	1.88	3	1.2	7.8	230	17.9
E590322		16.9	0.06	2	0.006	1.41	5.3	15.5	0.33	177	0.32	3.38	1.2	5.5	190	6.2
E590323		17.5	0.09	2.1	0.015	1.47	5.9	100	0.9	350	1.08	2.46	1.4	15.1	220	14.6
E590324		17.15	0.36	1.4	0.055	1.63	3.9	125.5	2.55	1195	1.85	0.89	2.3	87.8	270	9.7
E590325		16.85	0.4	1.3	0.061	1.13	2.7	95.9	3.3	1410	0.4	0.81	2.5	96.6	320	6.1
E590326		15.55	0.32	1.4	0.066	0.59	2.7	79.8	3.32	1400	0.49	1.17	2.4	89.6	300	4.2
E590327		17.2	0.41	1.3	0.063	0.73	2.9	102	3.66	1360	0.42	1.14	2.5	94.1	310	4.6
E590328		17.25	0.41	1.5	0.063	0.96	3.2	121	3.68	1415	1.19	0.95	2.5	94.7	310	5.4



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CERTIFICATE OF ANALYSIS TB07149576

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590299		52.4	<0.002	0.06	0.6	2.9	<1	0.5	406	0.09	<0.05	1.6	0.074	0.32	0.5	18
E590300		63.1	<0.002	0.73	0.54	3.7	<1	0.4	381	0.1	0.22	1.9	0.08	0.7	0.7	25
E590301		63.3	<0.002	0.8	0.58	3.6	<1	0.4	338	0.09	0.24	1.8	0.078	0.67	0.6	29
E590302		64.1	<0.002	0.8	0.56	3.3	<1	0.4	319	0.09	0.2	1.7	0.071	0.67	0.6	28
E590303		59.1	<0.002	0.89	0.61	3.4	<1	0.5	351	0.09	0.35	1.7	0.072	0.61	0.6	31
E590304		71	<0.002	1.05	0.72	5	<1	0.4	339	0.09	2.82	1.8	0.088	0.8	0.6	51
E590305		67.2	<0.002	1.22	0.88	5	<1	0.4	311	0.09	0.77	1.7	0.092	0.84	0.6	46
E590306		52.2	<0.002	0.75	0.69	3.4	<1	0.4	322	0.08	0.45	1.7	0.074	0.64	0.6	39
E590307		93.9	<0.002	2.93	1.8	21.8	2	0.5	406	0.12	5.3	1	0.298	1.08	0.4	170
E590308		85.9	<0.002	0.97	1.04	26	1	0.5	423	0.16	0.29	0.9	0.363	1.05	0.4	164
E590309		49.5	<0.002	0.38	1.66	40.3	1	0.6	389	0.15	0.2	0.3	0.535	0.58	0.1	258
E590310		39.8	<0.002	0.26	1.68	39.8	1	0.6	361	0.14	0.15	0.2	0.535	0.46	0.1	263
E590311		58.5	0.002	0.6	1.39	38.9	1	0.6	421	0.14	0.21	0.3	0.523	0.65	0.1	257
E590312		64.3	<0.002	0.58	1.29	35.6	1	0.8	378	0.15	0.23	0.4	0.535	0.73	0.1	259
E590313		78.4	<0.002	1.09	0.75	23	1	0.5	346	0.13	0.42	0.9	0.306	0.89	0.4	150
E590314		51.8	<0.002	0.61	0.71	9.4	<1	0.8	1070	0.17	0.14	3.8	0.282	0.67	0.7	88
E590315		65.2	<0.002	0.89	0.57	10.5	<1	0.6	329	0.13	0.31	1.5	0.156	0.81	0.6	69
E590316		67.8	<0.002	0.6	0.64	4	<1	0.5	270	0.13	0.21	1.8	0.082	0.74	0.8	35
E590317		58.5	<0.002	0.54	0.53	2.9	<1	0.5	293	0.11	0.18	1.6	0.065	0.68	0.8	25
E590318		57.8	<0.002	0.6	0.62	2.6	<1	0.5	344	0.11	0.35	1.7	0.063	0.62	0.8	24
E590319		56.3	<0.002	0.65	0.61	2.8	<1	0.5	313	0.11	0.3	1.6	0.062	0.61	0.8	23
E590320		61.8	<0.002	1.02	0.87	2.7	3	0.4	302	0.1	0.97	1.7	0.064	0.57	0.7	30
E590321		59.3	<0.002	0.95	0.57	2.8	2	0.4	291	0.09	0.39	1.5	0.07	0.64	0.6	33
E590322		48.3	<0.002	0.04	0.15	2.1	1	0.4	415	0.09	<0.05	1.4	0.066	0.27	0.5	16
E590323		61.8	<0.002	0.64	0.66	4.4	2	0.5	250	0.11	0.2	1.5	0.098	0.73	0.6	42
E590324		85.3	0.003	1.8	1.62	31.2	3	0.5	290	0.15	0.38	0.3	0.464	0.98	0.1	218
E590325		59.3	0.002	0.46	1.92	36.8	2	0.6	307	0.16	<0.05	0.2	0.535	0.63	0.1	253
E590326		30	<0.002	0.22	2.01	35.1	2	0.6	349	0.16	<0.05	0.2	0.511	0.29	0.1	243
E590327		39.1	<0.002	0.44	2.35	35.3	3	0.6	315	0.18	0.19	0.3	0.523	0.44	0.1	247
E590328		56.1	0.002	0.38	1.38	35.9	3	0.6	313	0.17	0.25	0.3	0.523	0.61	0.1	246



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CERTIFICATE OF ANALYSIS TB07149576

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.1	0.1	2	0.5	0.001
E590299		1.8	2.2	63	67	0.004
E590300		2.9	2.7	73	73.8	0.029
E590301		3.1	2.6	62	71.1	0.040
E590302		3.3	2.2	53	67	0.028
E590303		2.9	2.4	70	71.1	0.051
E590304		4.6	4	42	59.4	0.335
E590305		5	3.1	38	71.1	0.226
E590306		2.5	2.8	29	66.4	0.134
E590307		11.1	9.8	76	51.5	0.985
E590308		8.2	12.3	90	53	0.075
E590309		2.9	18.7	99	36.1	0.017
E590310		1	17.9	101	39.1	0.029
E590311		5.7	17.2	106	41.6	0.016
E590312		6.6	17.4	164	45.1	0.032
E590313		7.8	11.4	104	51.8	0.123
E590314		1.4	10.5	72	120	0.015
E590315		6.1	4.8	56	65.2	0.084
E590316		5.4	3	52	69.7	0.058
E590317		5.6	2.3	45	67	0.043
E590318		3.6	2.2	42	66.1	0.093
E590319		2.9	2.1	41	64.3	0.060
E590320		3.1	2.5	35	68	0.188
E590321		2.5	2.3	33	68.4	0.114
E590322		1.7	1.9	36	63	0.006
E590323		5	3.1	44	66.2	0.040
E590324		18.7	16.4	110	39.3	0.070
E590325		10.6	18.7	109	36.5	0.027
E590326		3.4	17.9	96	42.1	0.033
E590327		5.1	18.6	103	37.2	0.019
E590328		11.1	18.2	107	43.1	0.034



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CERTIFICATE OF ANALYSIS TB07149576

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.



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CERTIFICATE TB07150567

Project: 244500

P.O. No.:

This report is for 69 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 17-DEC-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO 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 TB07150567

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
E590230	3.96	0.54	6.79	12.9	470	0.65	0.37	1.43	0.86	21.6	3.4	10	5.83	17.7	1.64	
E590231	3.80	0.25	7.04	15.3	460	0.63	0.14	1.68	0.07	19.9	2.9	13	8.22	7.1	1.22	
E590232	2.06	1.76	2.08	39	130	0.56	0.25	24.1	0.06	4.31	9.2	35	8.19	13.4	2.74	
E590233	3.43	1.07	7.3	15.3	310	0.95	0.15	2.45	0.05	26.5	7.7	46	13.4	11.3	1.67	
E590234	4.14	0.41	7.49	17.9	290	0.87	0.08	2.1	0.04	23.9	7	39	13.1	11	1.56	
E590235	3.38	0.38	7.53	13.1	300	1.08	0.11	4.38	0.04	35.5	12.4	69	18.45	17.7	2.45	
E590236	1.91	3.03	7.74	25.2	450	1.33	0.37	3.89	0.12	12	54.5	193	41.9	410	6.53	
E590237	6.23	1.38	6.88	18.3	390	1.06	0.21	4.97	0.06	24.4	13.4	54	18.9	37.3	2.84	
E590238	6.69	1.09	6.1	18.5	310	0.84	0.14	8.04	0.05	17.3	5.2	17	12.85	45.3	1.81	
E590239	3.64	1.3	6.47	21.5	340	0.83	0.16	3.46	0.05	13.65	4.7	15	7.17	23.4	1.42	
E590240	2.74	0.3	7.31	23.9	400	0.95	0.08	1.94	0.04	13.9	5	18	7.43	10.5	1.34	
E590241	5.65	0.26	8.26	31.2	420	1.12	0.06	1.89	0.04	16.85	5.6	25	12.3	11.4	1.54	
E590242	4.75	0.16	7.61	24.1	420	1.03	0.06	1.8	0.05	14.05	4.9	18	7.42	8.8	1.29	
E590243	5.92	0.28	7.39	27.5	310	0.88	0.06	1.8	0.04	14.65	5	26	10.2	10.3	1.48	
E590244	4.87	0.46	7.61	25.8	330	1	0.1	2.22	0.05	15.3	5.4	22	10.1	11.4	1.48	
E590245	5.34	0.18	8.28	27.9	520	1.28	0.08	1.45	0.06	18.45	5.8	22	8.08	9.7	1.41	
E590246	2.10	0.03	7.51	0.3	500	1.06	0.07	1.2	0.02	13.15	3.7	12	2.35	3.8	1.07	
E590247	4.27	0.31	7.24	22.4	500	1.01	0.07	1.71	0.04	12.8	4.6	17	6.96	8.1	1.39	
E590248	4.77	0.3	8.83	22.1	830	1.25	0.1	1.64	0.05	14.9	5.2	20	10.3	6.7	1.43	
E590249	4.89	0.37	8.74	23.6	460	1.16	0.09	1.81	0.11	14.55	5	20	9.48	7.6	1.32	
E590250	4.61	0.35	7.7	25.9	370	1	0.1	1.92	0.06	16.05	5.3	22	9.2	11.5	1.32	
E590251	4.36	0.28	7.69	23.4	330	0.94	0.09	1.77	0.03	14.75	5.3	20	5.69	8.2	1.44	
E590252	4.77	0.21	7.85	16	390	0.96	0.08	1.72	0.03	15.45	5.2	18	6.37	14.1	1.41	
E590253	5.08	0.14	7.59	16.7	390	1.06	0.08	1.96	0.03	15.35	6.5	18	12.2	10.5	1.64	
E590254	5.59	0.42	8.07	2.9	260	1.21	0.17	7.23	0.14	8.19	55.7	181	14.7	145	8.92	
E590255	4.43	0.47	7.93	2.1	230	1.05	0.2	7.08	0.15	7.91	57.9	186	16.6	170	9.6	
E590256	4.28	0.36	7.36	6	200	1.21	0.05	7.6	0.14	7.96	49.3	163	15.6	123	8.1	
E590257	3.50	0.68	7.99	36.6	500	1.41	0.11	5.2	0.08	9.72	34	152	28.5	92.4	5.5	
E590258	2.63	2.35	6.28	30	300	1.11	0.19	10.75	0.11	9.35	30.6	123	20.8	106	6.45	
E590259	2.87	0.74	7.82	27	410	1.24	0.1	7.14	0.12	10.7	34.3	147	26.5	105.5	6.55	
E590260	2.54	0.53	8.22	16.6	340	1.16	0.13	6.68	0.12	10.75	39.2	160	27.6	114.5	7.23	
E590261	3.46	0.82	8.01	44.9	340	1.43	0.2	6.11	0.12	12.1	38.4	142	26.2	128.5	6.15	
E590262	4.06	0.39	7.07	31.5	300	0.99	0.06	3.6	0.04	14.9	5.6	21	11.7	9.9	2.05	
E590263	1.86	0.55	7.61	27.3	240	1.13	0.35	5.24	0.09	12.4	27.7	100	25.1	70.6	4.95	
E590264	4.13	0.98	7.28	28.1	220	1.26	0.15	6.29	0.08	10.6	33.3	130	15.35	100.5	5.66	
E590265	2.10	0.65	7.26	11.6	200	1.25	0.04	8.11	0.1	7.97	38.4	166	14.5	120.5	6.73	
E590266	0.72	0.49	7.9	26.5	220	1.41	0.31	6.49	0.12	12.7	30.4	131	23.1	66.2	5.77	
E590267	2.42	0.28	4.26	5.5	110	1.01	0.03	4.57	0.07	4.59	25.9	100	10.2	85.2	4.17	
E590268	5.05	0.52	8.19	4.9	160	1.26	0.1	7.8	0.17	8.85	49.6	181	15.3	148.5	8.99	
E590269	4.72	0.34	8.04	3.7	130	0.82	0.16	7.33	0.16	8.76	51.4	188	14	135.5	9.53	



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CERTIFICATE OF ANALYSIS TB07150567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590230		17.5	0.09	2.2	0.023	1.53	10.8	41.1	0.57	223	4.36	2.49	1.9	5.3	260	86.5
E590231		18.65	0.11	2.2	0.005	1.48	9.6	42.6	0.51	198	1.44	2.92	1.1	4.3	220	19.4
E590232		7.28	0.09	0.4	0.01	0.92	2.3	46.5	3.89	3050	1.72	0.18	0.4	20.2	100	10.2
E590233		17.55	0.11	2.3	0.014	1.25	12.8	55.9	1.1	340	1.33	3.45	1.2	31.9	340	12.4
E590234		17.8	0.09	2.1	0.014	1.32	12	57.4	0.97	272	1.04	3.33	1.1	26.8	310	10.8
E590235		18.3	0.13	2.3	0.018	1.43	17.4	83.6	1.89	534	0.7	2.64	1.7	45	420	13.1
E590236		22.7	0.2	1.3	0.053	2.8	5.2	190.5	3.05	754	0.74	1	2.6	132.5	350	8.8
E590237		15.9	0.12	2	0.022	1.53	12.2	70.3	2.21	699	1.4	2.28	1.4	38.1	290	10.8
E590238		13.9	0.09	1.7	0.015	1.09	9	73.3	3.09	851	2.63	2.36	0.8	11.3	180	9.7
E590239		15.15	0.11	1.9	0.012	1	6.8	42.1	0.97	361	3.24	3.28	0.9	8.7	210	8.6
E590240		18	0.08	2.1	0.012	1.21	6.9	37.9	0.39	193	1.59	3.66	0.9	8.7	240	11.1
E590241		21	0.09	2.3	0.013	1.49	8.6	50.7	0.5	226	0.97	3.79	1	10.7	250	11.2
E590242		19.25	0.08	2.1	0.013	1.49	6.9	41.7	0.35	192	0.67	3.55	0.9	8.4	240	10.1
E590243		18.4	0.08	2.2	0.012	1.24	7.3	46.9	0.48	241	0.89	3.82	0.9	9.3	240	11.4
E590244		18.7	0.08	2.2	0.012	1.15	7.6	48.6	0.63	259	1.69	3.94	1	10	230	12.7
E590245		21.9	0.1	2.4	0.014	1.85	9.4	60.6	0.45	173	1.63	3.39	1	11.4	250	13.3
E590246		19.45	0.09	2.1	0.009	1.39	6.6	15.5	0.32	158	0.14	3.51	1.3	6.5	200	6.3
E590247		17.15	0.08	2	0.012	1.54	6.3	59.8	0.6	240	1.11	3.12	0.9	8.3	230	10.5
E590248		20.3	0.08	2.3	0.014	1.96	7.4	67.5	0.59	191	2.14	3.12	1.1	9.6	240	14.5
E590249		18.8	0.09	2.3	0.014	1.47	7.2	54.9	0.42	184	1.15	3.2	1	9.2	220	14.2
E590250		20.2	0.09	2.2	0.014	1.33	8.1	56.9	0.42	264	0.63	3.65	1	9.2	230	13.1
E590251		19.1	0.1	2.3	0.01	1.25	7.2	51.7	0.38	199	0.75	4.02	1.1	9.6	240	9.3
E590252		19.15	0.09	2.2	0.014	1.29	7.7	56.1	0.63	273	1.21	3.59	1.2	9.4	240	10.5
E590253		20.1	0.09	2.3	0.014	1.33	7.8	85.7	0.93	322	1.45	3.06	1.2	11.5	240	8.3
E590254		18	0.21	1.2	0.069	1.27	3.2	83.6	4.36	1460	0.5	0.68	2.5	116	310	4.8
E590255		17.7	0.21	1.2	0.07	1.36	2.9	104	4.29	1520	1.03	0.75	2.5	112	300	4.8
E590256		17.85	0.21	1.2	0.068	1.23	3.1	102	3.6	1420	0.34	0.67	2.5	103.5	270	4.5
E590257		19.65	0.16	1.7	0.049	1.75	4.4	161.5	2.38	837	1.45	1.54	2.1	80.1	300	7.5
E590258		14.45	0.16	1.2	0.048	1.34	4.2	105	4.06	1430	1.35	0.91	1.8	80.4	220	5.7
E590259		16.7	0.16	1.5	0.051	1.73	4.7	142.5	2.64	1140	1.1	1.15	2.2	85.9	290	8.2
E590260		19.25	0.17	1.7	0.056	1.9	4.9	158.5	2.86	1190	1.12	1.14	2.5	100.5	300	8.1
E590261		20.1	0.17	1.9	0.054	1.62	5.7	148	2.09	1000	1.65	1.72	2.4	81.9	300	11.6
E590262		16.95	0.11	2.1	0.016	1.11	7.7	87	1.38	387	0.74	3.18	1.4	14.4	220	8
E590263		18.25	0.14	1.7	0.037	1.42	6	133.5	1.96	727	2.01	2.4	1.8	64.3	260	10.1
E590264		17.5	0.16	1.6	0.053	1.14	4.7	125	2.41	978	0.63	1.68	2.2	72.6	270	7
E590265		16.45	0.16	1.4	0.063	1.05	3.2	106	2.67	1300	0.33	1.11	2.2	89.4	260	4.9
E590266		19	0.15	1.7	0.053	1.29	5.9	132	2.36	999	1.03	2.1	2.2	74.9	290	10
E590267		9.48	0.1	0.8	0.038	0.55	1.8	57.9	1.67	769	0.17	0.59	1.4	55.3	160	2.6
E590268		18.55	0.19	1.4	0.073	0.83	3.4	92.7	3.72	1520	0.36	1.12	2.7	109	330	4
E590269		19.7	0.15	1.4	0.078	0.74	3.4	116.5	4.14	1530	0.44	1.03	3	108	310	3.4



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North Vancouver BC V7J 2C1

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CERTIFICATE OF ANALYSIS TB07150567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590230		58.9	<0.002	0.91	0.63	3.3	2	0.6	268	0.13	0.22	2.8	0.089	0.49	1.2	29
E590231		58.5	<0.002	0.64	0.58	2.1	1	0.4	283	0.08	0.1	2.5	0.062	0.51	1	26
E590232		37.8	<0.002	2.17	0.45	7.5	2	<0.2	497	<0.05	1.14	0.2	0.066	0.35	0.1	58
E590233		57.9	<0.002	1.01	0.85	4.6	2	0.5	321	0.09	0.81	2.7	0.078	0.56	0.9	38
E590234		61.7	<0.002	0.83	0.92	4.4	2	0.4	321	0.09	0.29	2.4	0.077	0.59	0.8	33
E590235		72.7	<0.002	0.89	1.06	7.9	2	0.6	527	0.13	0.26	3.3	0.134	0.79	1	62
E590236		135.2	0.002	2.44	1.66	38.6	3	0.7	412	0.17	1.28	0.6	0.522	2.13	0.2	267
E590237		85.8	<0.002	1.69	1.96	9.3	3	0.5	386	0.11	1.35	2.3	0.123	0.94	0.8	106
E590238		60.7	<0.002	1.04	3.04	4.2	2	0.7	484	0.07	1	1.5	0.056	0.62	0.6	65
E590239		49.2	<0.002	1.08	2.35	3.2	2	0.4	421	0.07	1.16	1.5	0.052	0.48	0.6	46
E590240		51.7	<0.002	0.96	0.87	3.4	2	0.5	428	0.07	0.33	1.6	0.058	0.52	0.7	38
E590241		71	<0.002	0.96	0.84	4	2	0.5	393	0.08	0.25	1.9	0.067	0.78	0.8	30
E590242		60.1	<0.002	0.93	0.8	3.6	2	0.4	357	0.07	0.17	1.7	0.063	0.64	0.7	30
E590243		58.5	<0.002	1.08	0.97	3.5	2	0.4	331	0.07	0.25	1.7	0.059	0.71	0.7	35
E590244		55.3	<0.002	1.05	0.94	3.8	2	0.5	345	0.08	0.47	1.7	0.062	0.66	0.7	33
E590245		79.1	<0.002	1.13	1.12	4.2	2	0.5	371	0.09	0.19	1.9	0.071	0.84	0.8	33
E590246		54.7	<0.002	0.05	0.2	2.9	2	0.6	440	0.09	<0.05	1.5	0.074	0.31	0.6	15
E590247		61.6	<0.002	1.15	0.93	3.3	2	0.4	324	0.08	0.34	1.5	0.066	0.7	0.6	35
E590248		86.7	<0.002	1.18	0.89	3.7	2	0.6	445	0.09	0.29	1.7	0.079	0.99	0.7	36
E590249		70.6	<0.002	1.09	0.88	3.6	2	0.5	362	0.09	0.36	1.7	0.068	0.86	0.6	30
E590250		63.6	<0.002	1.17	0.92	3.9	2	0.5	361	0.08	0.33	1.8	0.066	0.8	0.7	29
E590251		56.7	<0.002	1.17	0.53	3.9	2	0.5	304	0.09	0.29	1.7	0.068	0.61	0.7	30
E590252		57.7	<0.002	0.78	0.53	3.8	2	0.5	342	0.1	0.21	1.7	0.075	0.6	0.7	29
E590253		68.5	<0.002	0.95	0.6	4.2	2	0.5	403	0.1	0.16	1.7	0.082	0.81	0.7	30
E590254		69.7	0.002	0.94	0.91	45.1	3	0.5	392	0.15	0.26	0.3	0.546	0.71	0.1	259
E590255		80.7	0.002	1.01	0.89	47.7	3	0.6	351	0.15	0.3	0.2	0.579	0.81	0.1	270
E590256		76.9	0.002	0.52	1.31	45.9	2	0.6	348	0.15	0.16	0.3	0.498	0.82	0.1	235
E590257		76.2	0.002	1.47	2.75	30.3	2	0.6	377	0.15	0.46	0.7	0.416	1.18	0.3	193
E590258		72.7	0.002	2.1	1.66	28	4	0.4	383	0.12	1.77	0.4	0.378	0.85	0.1	182
E590259		94.2	0.002	1.49	1.66	29.3	3	0.5	397	0.14	0.48	0.7	0.453	1.07	0.2	194
E590260		101.5	0.002	1.04	1.88	34.5	3	0.6	374	0.16	0.25	0.6	0.483	1.27	0.2	207
E590261		97.6	0.002	2.18	2.96	31	3	0.6	415	0.16	0.6	0.8	0.424	1.15	0.3	190
E590262		55	<0.002	1.04	1.21	4	2	0.5	308	0.11	0.46	1.6	0.092	0.58	0.6	45
E590263		82.5	<0.002	2.35	1.3	22.6	3	0.5	315	0.13	0.61	1	0.304	0.94	0.4	151
E590264		73.4	0.002	1.46	1.31	30.5	3	0.6	271	0.14	0.84	0.7	0.408	0.7	0.3	197
E590265		61.6	0.002	0.86	1.09	34.7	3	0.6	293	0.14	0.57	0.3	0.497	0.64	0.1	238
E590266		72.6	<0.002	1.97	1.49	29.9	3	0.6	361	0.15	0.64	0.8	0.398	0.89	0.3	195
E590267		34.5	<0.002	0.38	0.57	22.6	2	0.4	173	0.09	0.21	<0.2	0.318	0.36	<0.1	143
E590268		52.7	0.003	0.66	1.11	45	3	0.6	322	0.17	0.43	0.3	0.585	0.53	0.1	271
E590269		51.5	0.003	0.36	1.21	44.7	2	0.6	254	0.16	0.24	0.3	0.568	0.51	0.1	265



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.001	0.01
E590230		1.4	4.9	347	79.6	0.049	
E590231		1	2.3	48	79.4	0.023	
E590232		5.1	4.1	41	14.7	0.101	
E590233		3.4	3.6	37	76.3	0.057	
E590234		1.8	3.4	40	71.6	0.022	
E590235		4.4	5.9	47	79.1	0.022	
E590236		25.8	14.4	124	42.4	0.126	
E590237		7.6	6.3	49	67.3	0.252	
E590238		3	5.6	45	57.8	0.167	
E590239		3.1	3.4	29	56.75	0.155	
E590240		2.3	2.6	34	70.2	0.154	
E590241		2	2.9	41	77.7	0.167	
E590242		2.3	2.6	38	70	0.055	
E590243		2	2.6	44	73.2	0.073	
E590244		3.5	2.7	41	75.3	0.067	
E590245		2	2.8	43	80.4	0.053	
E590246		1.9	2.2	35	69.5	0.003	
E590247		2.3	2.4	35	65.4	0.093	
E590248		2.7	2.5	38	76.7	0.086	
E590249		2.3	2.5	42	76.9	0.050	
E590250		2.7	2.8	42	75.6	0.056	
E590251		2.7	2.8	21	76.4	0.040	
E590252		1.9	2.8	34	73.7	0.031	
E590253		2.5	3	34	76	0.040	
E590254		5.5	19.7	104	38.8	0.014	
E590255		9.5	19.5	108	40.4	0.016	
E590256		5.9	18.6	93	43.9	0.046	
E590257		5.2	11.3	72	46.7	0.125	
E590258		10.1	13.6	81	34.4	0.768	
E590259		5.4	13.3	96	42.4	0.061	
E590260		6.2	15.3	129	48.3	0.034	
E590261		15.1	14.2	101	51.9	0.102	
E590262		3.4	3.5	37	58.9	0.158	
E590263		12.6	9.6	75	49.6	0.157	
E590264		12.8	12.6	69	46.4	0.572	
E590265		10.6	15.8	89	38.6	0.654	
E590266		15.5	13.4	85	48.5	0.129	
E590267		8	9.5	47	21.3	0.075	
E590268		8.4	20.3	105	38.1	0.074	
E590269		6.4	22.9	111	48.3	0.137	



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North Vancouver BC V7J 2C1
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Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590270		6.80	0.43	8.34	3.5	180	0.92	0.06	7.84	0.14	9.3	48.1	187	12.35	139.5	8.03
E590271		4.51	2.04	7.56	3.5	220	0.91	0.15	8.09	0.14	10.15	42.3	155	16.55	123.5	8.09
E590272		4.67	0.37	7.79	3	240	0.77	0.06	7.29	0.18	10.9	41.8	154	15.7	121.5	7.62
E590273		5.01	0.43	7.25	5.5	240	0.96	0.08	7.36	0.15	11.75	34.8	113	15.9	97.8	6.76
E590274		3.76	0.43	7.76	9.6	230	1.05	0.1	6.64	0.21	11.3	38.2	135	16.9	108	6.96
E590275		3.76	0.19	7.41	24.2	240	0.77	0.16	1.74	0.04	14.35	7.2	29	12.35	15.9	1.77
E590276		2.37	0.29	6.86	18.3	230	0.7	0.11	2.59	0.05	10.8	7	32	10.8	12.2	2.12
E590277		2.82	2.43	7.84	29.4	310	1.25	0.09	5.99	0.16	10.8	35.2	148	18.5	139.5	6.35
E590278		3.98	1.42	7.69	11.9	280	1.39	0.11	6.79	0.17	9.45	37.1	172	15.7	149	6.81
E590279		3.82	1.14	7.44	10.6	260	1.11	0.12	7.87	0.15	10.2	33.2	144	8.84	91.9	6.31
E590280		4.07	0.74	8.06	6.1	290	1.14	0.09	7.63	0.17	10.35	40.7	150	11.25	136	7.42
E590281		4.24	0.44	7.74	6.9	250	0.9	0.09	5.9	0.14	12.9	29.3	110	12	87.4	5.7
E590282		4.17	0.28	7.77	6	350	0.98	0.1	5.5	0.13	12.5	26.8	104	12.45	76	5.16
E590283		2.68	0.32	7.13	5	490	0.92	0.08	4.9	0.1	15.55	10.1	35	8.4	43	2.85
E590284		0.08	1.98	2.88	6320	310	0.8	69.8	0.89	0.19	33.3	11.2	249	1.22	96.5	2.56
E590285		5.08	0.34	8.27	7.6	290	0.79	0.17	6.83	0.14	9.72	46.9	166	9.25	130	8.69
E590286		1.86	0.17	7.08	15.1	320	0.79	0.16	2.8	0.04	11.95	7	28	11.05	14.5	2.07
E590287		1.88	0.19	7.66	17.9	380	0.9	0.14	2.13	0.05	13.8	7.3	37	12.1	19.9	1.91
E590288		3.19	0.48	8.04	25.2	330	1.33	0.18	6.16	0.23	10.65	36.4	161	17.95	92.9	6.16
E590289		3.75	0.62	7.54	35.4	340	0.98	0.26	3.63	0.13	13.55	11.4	42	13.45	34.2	2.7
E590290		3.81	0.27	7.24	27.7	320	0.95	0.12	2.85	0.04	15.1	8.2	28	13.55	20.4	2.2
E590291		3.65	0.18	7.57	28.2	480	1.35	0.18	2.85	0.06	16.15	10.7	42	17.55	30.7	2.38
E590292		4.37	0.25	8.16	22.4	560	1.36	0.11	2.58	<0.02	18.7	9.6	42	19.45	26.3	2.33
E590293		3.17	0.45	7.56	8.9	580	0.97	0.17	2.73	0.11	14.1	5.7	29	12.05	14.3	1.81
E590294		1.26	0.29	7.47	7.4	560	0.87	0.16	2.24	0.07	13.15	4.8	19	10.1	12.4	1.63
E590295		5.01	0.36	7.69	18.7	460	0.94	0.08	2.98	0.06	14.5	6.8	28	14.35	9.1	1.93
E590296		5.51	0.2	7.92	14	520	0.87	0.06	1.89	0.02	15.2	4.4	24	10.9	4.2	1.47
E590297		4.84	0.21	7.59	13.8	600	1.02	0.07	2.67	0.03	13.65	5	20	15.95	7.9	1.79
E590298		5.11	0.22	8.49	18.4	630	1.03	0.12	1.63	0.05	17.45	5.2	21	14.15	4.6	1.7



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Project: 244500

CERTIFICATE OF ANALYSIS TB07150567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
Units		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590270		18.85	0.18	1.5	0.073	0.89	3.7	96.2	3.2	1340	0.37	1.22	2.7	106.5	310	4
E590271		18.1	0.19	1.5	0.064	1.02	4.3	115.5	3.31	1390	0.66	1.23	2.5	99.7	290	5.2
E590272		18.15	0.18	1.7	0.063	1.06	4.8	116.5	3.19	1340	0.55	1.19	2.6	95.9	280	5.5
E590273		16.7	0.17	1.6	0.054	1.05	5.2	109	3.03	1180	0.82	1.45	2.3	74.7	280	7.2
E590274		18.05	0.17	1.7	0.059	1.18	5	108.5	3.03	1250	0.61	1.42	2.4	87.4	280	10.5
E590275		18.75	0.08	2	0.016	1.31	7.3	88.3	0.71	249	0.59	3.32	1.4	14.6	200	7.3
E590276		15.15	0.09	1.6	0.017	1.14	5.3	81.1	1.03	363	0.43	3.14	1.3	15.9	190	6.6
E590277		18.8	0.17	1.7	0.053	1.33	4.9	126	2.69	1120	0.71	2.13	2.2	80.7	260	8.8
E590278		18.25	0.16	1.5	0.055	1.04	4.1	98.4	3.33	1290	0.51	2.08	2.1	87.7	260	7.1
E590279		17.25	0.15	1.5	0.048	0.8	4.6	82.2	2.98	1280	0.69	2.18	1.9	76.1	240	6.3
E590280		19.35	0.17	1.7	0.064	0.87	4.4	96	3.23	1300	0.62	2.04	2.6	92.9	290	6.8
E590281		18.75	0.14	1.9	0.047	0.83	6.1	98.5	2.39	992	0.75	2.45	2.4	66.7	260	7.5
E590282		18.95	0.14	1.8	0.043	1.12	5.9	89.3	2.14	899	1.1	2.2	2.2	61.2	260	12.9
E590283		14.45	0.11	1.9	0.021	0.84	7.7	60.7	1.87	702	0.73	3.16	1.7	19.5	190	9
E590284		7.96	0.11	0.9	0.035	1.32	16.7	5.9	0.36	263	12.25	0.25	5.1	18.4	250	24.7
E590285		20.5	0.14	1.6	0.075	0.81	4	90.6	4.08	1410	0.69	1.6	2.9	107.5	300	7.5
E590286		16.9	0.09	1.9	0.016	0.91	5.8	78.7	1.07	450	0.78	3.29	1.7	14.6	190	9.6
E590287		18.95	0.09	2	0.017	1.37	6.8	74.8	0.8	310	1.11	3.33	1.7	16.6	200	8.1
E590288		19.2	0.17	1.5	0.048	1.47	5	110.5	2.92	1050	0.95	1.59	2	83.2	230	9.1
E590289		19.8	0.12	2.1	0.023	1.58	6.8	87.3	1.41	518	2.52	2.99	1.7	28	210	10.4
E590290		18.7	0.11	2	0.017	1.39	7.4	68.3	1.01	397	0.69	3.25	1.6	18.1	200	10
E590291		20.1	0.11	2.1	0.021	1.75	8	84.1	0.96	474	0.7	2.6	1.9	27.2	240	11.8
E590292		22.6	0.13	2.4	0.01	1.94	9.3	77.4	0.81	465	0.95	2.96	1.9	24.8	280	28.1
E590293		18.9	0.06	2.1	0.021	1.65	6.8	61.4	1.07	446	0.72	3.16	1.6	12.2	230	92.3
E590294		18.2	0.05	2	0.018	1.51	6.5	49.4	0.86	362	0.7	3.21	1.4	10.5	230	75.5
E590295		18.9	0.06	2.1	0.017	1.63	7.1	69.6	1.05	423	0.8	3.1	1.3	13.3	250	57
E590296		19.5	0.06	2.2	0.006	1.65	7.6	58.5	0.59	262	1.39	3.15	1.2	7.9	240	32.6
E590297		19.5	0.06	2.2	0.009	1.82	6.7	67.1	1.07	396	0.81	2.83	1.4	8.8	230	38.4
E590298		21.3	0.07	2.5	0.01	2.01	8.8	61.8	0.64	277	0.77	3.02	1.5	8.9	260	69.1



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CERTIFICATE OF ANALYSIS TB07150567

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590270		55.4	<0.002	0.43	1.08	43.9	3	0.6	307	0.17	0.21	0.4	0.563	0.53	0.1	263
E590271		62.8	0.002	1.03	1.08	37.3	3	0.6	296	0.16	1.14	0.6	0.499	0.61	0.2	225
E590272		63.9	0.002	0.48	1.24	36.8	3	0.6	253	0.17	0.11	0.6	0.495	0.62	0.2	223
E590273		61.9	<0.002	0.97	0.92	29	3	0.6	272	0.15	0.19	0.7	0.411	0.6	0.3	182
E590274		67.9	<0.002	0.66	1.27	32.9	3	0.6	272	0.16	0.14	0.7	0.45	0.69	0.2	196
E590275		68.6	<0.002	0.68	0.82	5.7	2	0.5	172.5	0.12	0.22	1.5	0.101	0.67	0.8	41
E590276		53.8	<0.002	0.78	0.82	5.6	2	0.4	192	0.11	0.32	1.2	0.106	0.58	0.5	62
E590277		77.1	<0.002	2.1	1.56	31.6	3	0.6	347	0.15	1.85	0.7	0.411	0.8	0.3	208
E590278		61.5	<0.002	1.65	1.15	35	3	0.6	373	0.14	0.89	0.5	0.423	0.62	0.2	218
E590279		44.6	<0.002	1.24	0.91	29.4	3	0.5	387	0.13	0.93	0.7	0.37	0.45	0.3	182
E590280		50.5	0.002	1.06	0.97	36.9	3	0.6	378	0.17	0.46	0.6	0.481	0.54	0.2	222
E590281		46.5	0.002	0.65	0.82	26	3	0.6	335	0.17	0.22	1	0.373	0.51	0.5	157
E590282		56.9	0.002	0.59	0.77	24.4	2	0.6	306	0.15	0.14	1	0.342	0.62	0.4	150
E590283		41.6	<0.002	0.7	0.52	8.6	2	0.5	448	0.15	0.16	1.6	0.145	0.42	0.8	66
E590284		65.8	0.004	0.99	8.02	4.6	6	4.1	59.5	1.32	25.7	5.8	0.142	0.3	1.6	29
E590285		48	0.002	0.46	1.01	40.5	2	0.6	371	0.16	0.16	0.4	0.536	0.52	0.2	246
E590286		49.9	<0.002	0.53	0.68	6	2	0.5	331	0.15	0.18	1.3	0.114	0.58	0.7	44
E590287		66.8	<0.002	0.61	0.89	6.7	2	0.6	323	0.14	0.18	1.5	0.124	0.75	0.8	48
E590288		81.6	<0.002	1.05	1.97	32.1	3	0.5	381	0.14	0.28	0.7	0.334	1.05	0.3	164
E590289		79.2	<0.002	1.24	0.97	10	3	0.5	305	0.13	0.62	1.4	0.136	0.92	0.7	69
E590290		70.7	<0.002	1	0.73	6.4	2	0.5	321	0.13	0.29	1.9	0.119	0.82	0.8	47
E590291		83.1	<0.002	0.68	0.89	9.3	2	0.6	355	0.14	0.16	1.7	0.166	1.01	0.7	58
E590292		92.6	<0.002	0.99	0.86	8	2	3.9	384	0.14	0.26	2	0.146	1.12	0.8	51
E590293		58.4	<0.002	0.73	0.66	4.1	2	0.5	484	0.12	0.39	1.5	0.096	0.8	0.6	38
E590294		55.2	<0.002	0.58	0.53	3.8	2	0.5	459	0.11	0.25	1.5	0.086	0.68	0.6	32
E590295		62.9	<0.002	1.17	0.71	5.4	2	0.5	387	0.1	0.53	1.6	0.094	0.93	0.7	50
E590296		61.5	<0.002	0.86	0.64	3.5	2	0.5	422	0.1	0.3	1.7	0.075	0.83	0.7	37
E590297		67.1	<0.002	1.03	0.74	3.5	2	0.5	482	0.11	0.36	1.6	0.082	1.04	0.6	39
E590298		77.5	<0.002	1.07	0.6	3.8	2	0.6	400	0.12	0.28	1.9	0.092	0.95	0.8	31



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CERTIFICATE OF ANALYSIS TB07150567

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E590270		4.9	19.2	100	41.3	0.022	
E590271		16.6	17.6	114	45.2	0.191	
E590272		8.8	16.9	100	48.9	0.041	
E590273		9.1	13.7	84	44	0.117	
E590274		7.9	15.8	120	47.9	0.057	
E590275		7.7	3.3	31	55.6	0.078	
E590276		7.7	3.4	40	44.2	0.076	
E590277		22.4	13.7	120	47	0.162	
E590278		21.8	14.6	131	41.6	0.082	
E590279		19.9	12.7	110	42.5	0.124	
E590280		17.7	16.9	110	50.3	0.060	
E590281		12.2	12.5	90	52.9	0.044	
E590282		44	11.3	85	50.6	0.029	
E590283		16.6	6.3	50	51.5	0.031	
E590284		152	6.8	30	8.4	>10.0	17.50
E590285		11.4	20.8	109	50.8	0.020	
E590286		7.1	4.1	39	51.4	0.029	
E590287		6	3.7	36	55.7	0.041	
E590288		14.5	12.2	105	43.6	0.039	
E590289		13.1	5.3	60	59.3	0.152	
E590290		5.2	3.9	36	56.8	0.070	
E590291		6.1	5.1	63	61.4	0.034	
E590292		11.7	4.7	80	70.3	0.030	
E590293		3.4	3.6	108	71.9	0.053	
E590294		3.1	3.1	79	69.7	0.041	
E590295		5	4.2	56	71.2	0.095	
E590296		3.8	3	19	73.9	0.070	
E590297		4	3.3	50	73.7	0.076	
E590298		3.1	3.2	48	83.9	0.035	



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CERTIFICATE OF ANALYSIS TB07150567

Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.



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CERTIFICATE TB07150568

Project: 244500

P.O. No.:

This report is for 93 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 17-DEC-2007.

The following have access to data associated with this certificate:

STEPHEN ARCHIBALD
RANDY FARMER

LYNDA BEAUCHAMP
ALLAN TURNER

GRAEME EVANS
LISA VONDRASEK

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-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **TECK COMINCO LIMITED**
ATTN: LISA VONDRASEK
4000 TRANS-CANADA HIGHWAY
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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 TB07150568

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590125		5.27	0.09	8.37	39.3	20	0.17	0.03	8.04	0.11	5.82	46.6	261	1.98	106.5	8.58
E590126		4.86	0.15	8.23	2.9	60	0.21	0.02	9.06	0.16	5.82	48.3	251	6.35	126.5	8.39
E590127		5.48	0.19	7.96	2.4	130	0.23	0.01	8	0.13	5.67	45.2	228	18.55	121	7.85
E590128		2.02	0.05	7.73	1.5	660	1.09	0.13	0.84	0.04	15.8	3.4	15	3.11	3.6	1.11
E590129		5.23	0.2	8.38	2.6	140	0.33	0.01	7.52	0.12	5.75	48.5	257	26.7	129	8.24
E590130		4.99	0.15	8.5	2.8	50	0.22	0.01	9.02	0.12	6.16	47.4	252	6.37	125	8.01
E590131		5.15	0.21	8.29	2.1	40	0.2	0.02	8.76	0.12	5.76	48.8	253	4.61	121.5	8.36
E590132		5.35	0.15	8.35	1.8	110	0.21	0.03	7.65	0.08	5.27	39.9	258	9.08	109.3	8.12
E590133		5.24	0.14	7.36	0.9	790	0.99	0.15	5.82	0.05	112	30.3	167	72.3	36.6	4.96
E590134		5.46	0.59	7.95	2.9	190	0.76	0.18	7.69	0.11	23.6	44.4	238	12.6	144.5	7.55
E590135		3.14	14.3	7.04	39.6	160	1.57	0.18	7.84	0.11	5.81	47.8	202	13.95	316	7.75
E590136		4.43	7.44	7.38	18.1	100	1.3	0.13	7.77	0.13	5.16	46.3	207	21.3	306	7.7
E590137		3.17	1.21	7.36	5	60	0.93	0.02	8.98	0.1	4.96	40.2	219	20	110.5	6.85
E590138		3.52	2.9	8.16	6.9	70	1.05	0.03	7.66	0.1	5.18	47.1	246	22.8	139.5	8.46
E590139		3.61	3.69	7.45	9.9	100	0.97	0.07	7.74	0.1	5.33	42.9	216	22.4	117.5	7.85
E590140		2.48	3.12	7.39	5.1	140	0.88	0.1	8.12	0.08	4.75	40.6	234	29.4	123	7.54
E590141		5.21	0.37	8.49	2.2	80	0.47	0.04	8.71	0.11	6.05	49.5	262	10.7	128.5	8.61
E590142		4.79	0.17	8.85	4.2	60	0.17	0.01	8.5	0.13	6.04	49.3	268	2.15	132.5	8.84
E590143		5.20	0.1	8.67	18.3	20	0.23	0.01	8.46	0.13	6.02	49	252	1.84	131	8.67
E590144		5.35	0.07	8.1	53.1	20	0.15	0.01	8.21	0.12	5.71	46.3	249	1.27	126	8.07
E590145		5.30	0.09	8.42	81.1	20	0.16	0.01	8.69	0.11	5.76	48.8	259	2.12	141.5	8.92
E590146		5.51	0.1	8.31	72.3	20	0.17	0.02	8.25	0.16	5.95	48.9	248	3	126.5	8.42
E590147		4.42	0.11	7.62	45.6	20	0.18	0.03	8.01	0.16	5.53	45.4	223	1.7	107.5	7.76
E590148		0.08	0.22	7.68	44.8	240	0.34	0.01	6.52	0.11	8.04	38.1	236	6.7	136.5	7.64
E590149		5.14	0.07	8.11	25.2	20	0.17	0.01	7.75	0.11	5.76	46.3	250	1.43	118.5	8.3
E590150		6.73	0.08	7.9	4.1	50	0.15	0.01	9.14	0.18	5.5	44.9	230	4.08	117.5	8.27
E590151		3.63	0.31	7.89	10.7	200	0.47	0.03	8.58	0.18	6.6	45.3	218	14.55	118	8.18
E590152		4.63	0.06	8.14	1.6	770	1.03	0.05	2.78	0.05	52.4	8.7	40	24.2	16.6	2.24
E590153		4.61	0.16	8.25	1.3	830	1.01	0.05	2.36	0.03	53.2	8.2	38	30.1	9.8	2.24
E590154		4.96	0.19	7.83	1	800	1.09	0.06	2.72	0.03	50.9	9.6	35	31.3	4.1	2.4
E590155		5.08	0.05	7.45	1.4	780	1.26	0.06	2.3	0.19	48.9	8.2	34	25.8	12.2	2.08
E590156		6.21	0.06	8.18	1.4	760	1.12	0.07	2.51	0.12	51.6	8.9	40	27.4	12.1	2.27
E590157		5.30	0.05	8.04	2.2	950	1.18	0.04	2.74	0.16	47.9	8.5	39	26.8	12.1	2.17
E590158		5.18	0.42	8.71	8.3	280	0.66	0.02	8.85	0.31	7.8	48.9	245	11.2	120.5	8.08
E590159		5.16	0.13	8.44	4.4	100	0.35	<0.01	8.28	0.24	5.42	49.5	260	5.22	121	8.58
E590160		5.74	0.17	9.14	5.7	80	0.46	<0.01	8.85	0.21	6.05	56	269	7.49	136.5	9.77
E590161		5.26	0.16	8.7	5.9	50	0.3	0.01	7.46	0.24	6.16	55.8	276	5.86	114.5	9.45
E590162		4.68	0.14	8.3	3	20	0.23	<0.01	8.08	0.14	5.28	48.1	262	3.15	116	8.46
E590163		4.16	0.14	8.07	9.2	20	0.22	<0.01	8.36	0.13	5.26	48.2	242	2.45	124	8.09
E590164		6.16	0.13	8	13.1	10	0.17	<0.01	8.27	0.16	5.23	49.3	257	1.7	135	8.42



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CERTIFICATE OF ANALYSIS TB07150568

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590125		16.4	0.13	0.7	0.061	0.07	2.1	61.8	4.76	1545	0.21	1.1	1.7	103	220	1.2
E590126		16.85	0.13	0.7	0.058	0.17	2.1	84.3	4.56	1465	0.23	1.3	1.8	106.5	220	1.3
E590127		16.2	0.13	0.8	0.054	0.5	2.1	77.3	4.36	1380	0.27	0.99	1.7	99.4	200	1.3
E590128		21.3	0.05	2.3	0.01	1.62	8.1	17.9	0.37	142	0.18	3.71	1.4	7.1	200	7.1
E590129		17.2	0.14	0.9	0.058	0.73	2.1	93.8	4.5	1410	0.34	1.13	1.9	104	240	1
E590130		16.85	0.14	0.8	0.061	0.17	2.3	64.7	4.52	1460	0.27	1.28	2	106	230	1.1
E590131		16.6	0.14	0.8	0.058	0.16	2.1	58.6	4.34	1480	0.28	1.19	1.9	104.5	230	1.1
E590132		13.55	0.11	0.7	0.046	0.38	2	79.2	4.19	1445	0.23	1.53	1.5	90.2	220	1
E590133		18.5	0.18	3.4	0.044	1.96	53.1	151	4.04	867	0.16	3.12	6.4	161	1530	4.6
E590134		17.15	0.14	1.2	0.056	0.59	10.8	90.3	3.93	1280	0.28	1.36	2.6	114	410	3
E590135		17.1	0.15	0.8	0.055	1.7	2.2	131.5	3.22	1065	0.27	0.33	1.3	86.3	200	4.6
E590136		15.7	0.15	0.9	0.053	1.3	1.9	118	3.7	1230	0.31	0.5	1.5	96	180	5.9
E590137		14.8	0.13	0.8	0.044	0.95	1.8	118.5	4.64	1535	0.29	0.35	1.5	87.5	190	3.9
E590138		16.2	0.15	1	0.057	1.05	1.9	136.5	5.34	1445	0.33	0.3	1.7	102	210	4.2
E590139		16	0.14	0.9	0.049	1.21	2	124.5	5.14	1460	0.44	0.34	1.5	91.2	200	3.3
E590140		15.7	0.14	0.7	0.046	1.31	1.8	113	3.6	1250	0.57	0.55	1.7	86.8	190	2.4
E590141		16.9	0.14	0.7	0.064	0.28	2.2	60.9	4.1	1450	0.4	1.41	2	107	230	1.3
E590142		17.6	0.15	0.7	0.059	0.08	2.2	53.7	4.5	1530	0.4	1.59	2.1	112	240	0.9
E590143		17.25	0.14	0.8	0.061	0.06	2.2	51.2	4.47	1500	0.35	1.67	2	109	240	0.7
E590144		15.95	0.14	0.7	0.058	0.05	2.1	43.4	4.13	1430	0.35	1.65	1.9	99.5	220	0.7
E590145		17	0.16	0.7	0.059	0.06	2.1	49.2	4.33	1520	0.33	1.56	1.9	108.5	220	0.7
E590146		17.55	0.15	0.7	0.062	0.09	2.2	54.7	4.31	1490	0.33	1.42	2	107	210	1.2
E590147		15.6	0.13	0.6	0.056	0.07	2	39.6	3.95	1380	0.35	1.55	1.8	98.9	210	1.1
E590148		16.1	0.14	1.2	0.062	0.69	3.2	67.4	3.17	1345	0.26	0.55	2.4	84	270	3.2
E590149		16.35	0.15	0.7	0.06	0.06	2.1	35.7	4.06	1400	0.36	1.77	2	101.5	220	1
E590150		16.15	0.15	0.8	0.056	0.15	2	44.8	4.46	1490	0.32	1.54	1.8	95.4	200	2.1
E590151		15.9	0.14	0.9	0.053	0.71	2.6	66.5	4.5	1365	0.41	0.7	1.8	95.2	210	18.9
E590152		22.4	0.1	3.3	0.018	1.85	26	78.3	1.06	338	0.68	2.35	3	28.4	570	11.4
E590153		22.4	0.09	3.3	0.019	1.95	26.5	62.4	0.94	318	0.36	2.68	3	26.4	570	11.3
E590154		21.3	0.09	3.2	0.02	1.77	25.8	66.2	1.05	366	0.43	2.39	3.2	28.9	530	12.7
E590155		19.75	0.12	2.9	0.012	1.76	24.5	70.2	0.9	307	0.31	2.35	2.5	26.6	520	11.3
E590156		21	0.11	3.2	0.02	1.8	25.9	77.3	0.97	332	0.38	2.79	2.6	30.4	580	11.2
E590157		22.4	0.12	3.4	0.014	1.89	23.1	92.2	1.04	342	0.69	2.92	2.8	29.6	600	11.5
E590158		15.9	0.13	1.1	0.053	0.7	3.3	92.4	4.81	1620	0.47	1.29	1.7	109.5	300	19.5
E590159		15.75	0.13	1.1	0.052	0.3	2	82.7	4.75	1530	0.45	1.73	1.5	101.5	220	3.3
E590160		15.7	0.14	1.1	0.059	0.28	2.2	115	5.69	2030	0.27	1.78	1.6	120	250	2.4
E590161		16.8	0.14	1.1	0.057	0.21	2.4	103	5.51	1710	0.35	1.82	1.7	116	240	3.1
E590162		15.25	0.14	0.8	0.047	0.12	2	63.9	4.36	1445	0.28	2.05	1.6	107.5	220	2.1
E590163		15.2	0.14	0.9	0.053	0.08	2	81.6	4.16	1430	0.36	1.97	1.4	104.5	200	1.5
E590164		15.1	0.14	0.7	0.048	0.08	2	58	4.21	1470	0.25	1.74	1.6	111	230	1.2



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte Units LOR	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590125		2.1	<0.002	0.12	1.4	40.4	2	0.5	245	0.11	<0.05	0.2	0.418	0.03	<0.1	251
E590126		10.2	0.002	0.26	1.06	41.5	2	0.5	196	0.11	<0.05	0.2	0.419	0.09	<0.1	245
E590127		35.2	0.002	0.47	1.04	38.6	2	0.4	123.5	0.1	0.05	<0.2	0.396	0.32	<0.1	236
E590128		67	0.002	0.06	0.21	2.9	2	0.6	426	0.12	<0.05	1.8	0.074	0.41	0.7	20
E590129		44.1	0.002	0.44	0.95	42.2	2	0.5	86.8	0.12	<0.05	0.2	0.434	0.5	<0.1	252
E590130		10.5	<0.002	0.33	1.05	42.8	2	0.5	126.5	0.11	<0.05	0.2	0.431	0.1	<0.1	249
E590131		8.1	0.002	0.29	0.95	41.4	2	0.5	151.5	0.11	0.05	0.2	0.429	0.08	<0.1	248
E590132		19.8	<0.002	0.54	0.61	33.7	2	0.4	216	0.09	0.07	0.2	0.424	0.19	<0.1	245
E590133		100.5	<0.002	0.45	0.28	16.6	2	0.9	1290	0.34	<0.05	5	0.389	1.14	0.9	125
E590134		35.9	<0.002	0.48	0.67	36.2	2	0.6	510	0.14	0.35	0.9	0.403	0.31	0.2	225
E590135		82.6	0.002	5.62	0.61	36.8	5	0.4	140.5	0.08	12.6	0.2	0.327	0.71	0.1	259
E590136		76.1	0.002	3.93	0.71	33.8	4	0.5	159.5	0.08	6	<0.2	0.339	0.91	0.1	255
E590137		53.9	0.002	1.17	0.69	35.4	2	0.4	118.5	0.09	0.76	<0.2	0.351	0.66	<0.1	223
E590138		57.6	0.002	1.84	0.85	40	3	0.5	115.5	0.1	1.62	<0.2	0.407	0.71	<0.1	251
E590139		65.4	0.002	2.29	0.73	35.8	3	0.4	94.6	0.09	2.17	<0.2	0.349	0.73	<0.1	234
E590140		76	0.002	1.94	0.75	36.7	3	0.5	100.5	0.1	1.98	<0.2	0.379	0.86	<0.1	230
E590141		18.6	0.002	0.33	1.09	42.3	2	0.5	148.5	0.11	0.19	0.2	0.442	0.18	<0.1	255
E590142		3.2	0.002	0.1	1.29	43.1	2	0.5	296	0.12	0.07	0.2	0.452	0.03	<0.1	261
E590143		2.2	0.002	0.1	1.34	42.5	2	0.5	261	0.12	<0.05	0.2	0.449	0.03	<0.1	260
E590144		1.3	0.002	0.14	1.54	40.2	2	0.6	232	0.11	<0.05	<0.2	0.414	0.02	<0.1	243
E590145		1.8	<0.002	0.17	1.61	40.5	2	0.5	217	0.11	<0.05	<0.2	0.425	0.03	<0.1	248
E590146		3.4	0.002	0.07	1.46	41.9	2	0.5	348	0.12	<0.05	0.2	0.428	0.04	<0.1	251
E590147		1.9	<0.002	0.09	1.37	39.2	2	0.5	222	0.1	<0.05	<0.2	0.393	0.02	<0.1	229
E590148		26.5	<0.002	0.27	16.4	36.5	2	0.5	134	0.14	<0.05	0.3	0.45	0.53	0.1	262
E590149		1.5	0.002	0.08	1.35	40.6	2	0.5	316	0.11	<0.05	<0.2	0.421	0.02	<0.1	246
E590150		6.6	0.002	0.16	1.18	38.2	2	0.5	241	0.1	0.06	<0.2	0.4	0.06	<0.1	236
E590151		33.7	0.002	0.34	1.61	36.8	2	0.5	334	0.1	0.09	0.2	0.383	0.29	0.1	228
E590152		58.2	<0.002	0.02	0.74	5.7	2	0.8	421	0.23	<0.05	5.1	0.181	0.56	1.8	48
E590153		62.6	<0.002	0.03	0.77	5.2	1	0.8	446	0.21	<0.05	5.2	0.173	0.6	1.4	45
E590154		58.5	<0.002	0.05	0.86	5	2	0.7	552	0.23	<0.05	5.1	0.175	0.59	1.4	41
E590155		63.8	<0.002	0.01	0.99	5	2	0.7	508	0.23	<0.05	4.9	0.17	0.51	1.3	39
E590156		64.3	<0.002	0.02	1.46	5.3	2	0.7	512	0.23	<0.05	5.3	0.181	0.53	1.4	41
E590157		61.3	<0.002	0.05	0.74	5.4	2	0.8	488	0.24	<0.05	5	0.189	0.57	1.6	44
E590158		30.2	<0.002	0.35	2.3	42.9	2	0.5	406	0.12	0.08	0.4	0.422	0.24	0.2	236
E590159		12.6	0.002	0.14	0.76	43.8	2	0.4	202	0.11	0.07	0.2	0.424	0.1	0.1	249
E590160		13.2	<0.002	0.26	0.84	48.4	3	0.5	146	0.12	0.08	0.2	0.456	0.12	<0.1	273
E590161		8.9	<0.002	0.43	0.77	47.3	3	0.5	123	0.12	0.07	0.2	0.451	0.09	<0.1	268
E590162		4.3	<0.002	0.28	0.87	42.2	2	0.5	195	0.11	0.07	0.2	0.426	0.05	<0.1	241
E590163		2.6	<0.002	0.28	1.01	41.7	2	0.4	156.5	0.11	0.07	0.2	0.412	0.02	<0.1	233
E590164		1.9	<0.002	0.2	1.29	42.5	2	0.5	223	0.11	0.06	0.2	0.419	0.02	<0.1	232



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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E590125		0.5	16.2	87	20.1	0.013	
E590126		2.1	16.7	86	22.6	0.027	
E590127		2.8	15.7	80	21.3	0.038	
E590128		2.5	2.2	27	77.2	0.003	
E590129		5.8	16.6	83	31	0.017	
E590130		1.8	17.5	78	27.4	0.014	
E590131		2.3	16.8	83	22.8	0.009	
E590132		2.9	13.4	82	22	0.009	
E590133		0.9	16.6	75	123.5	0.002	
E590134		3.2	16.1	83	37.7	0.041	
E590135		29.5	15.3	67	26.7	1.225	
E590136		19.6	13.3	81	28.9	1.090	
E590137		6.5	13.6	83	26.6	0.057	
E590138		5.8	15.4	91	31.6	0.120	
E590139		14.4	14.4	86	28	0.165	
E590140		7.3	14.7	75	23.7	0.119	
E590141		2.3	17.2	86	19.7	0.013	
E590142		0.9	17.6	86	19.7	0.010	
E590143		1.1	17.3	84	22.3	0.007	
E590144		0.4	16.4	79	17.6	0.015	
E590145		0.4	16.5	89	16.6	0.009	
E590146		0.5	17.2	85	19.6	0.007	
E590147		0.3	16	84	14.8	0.007	
E590148		1.4	8.4	73	42.4	0.032	
E590149		0.4	16.5	78	17.5	0.010	
E590150		0.3	15.9	82	23	0.010	
E590151		1	15.9	99	28.2	0.024	
E590152		0.5	5.5	48	116.5	0.003	
E590153		0.3	5.3	50	112	0.003	
E590154		0.3	5.3	60	110	0.003	
E590155		0.3	4.9	75	105.5	0.003	
E590156		0.3	5.1	74	112.5	0.005	
E590157		0.6	5	60	122	0.003	
E590158		2	15.6	126	35.2	0.021	
E590159		1.1	15.7	100	31.3	0.014	
E590160		3.2	17.4	114	33.2	0.013	
E590161		1.5	17.4	118	34.7	0.052	
E590162		1.1	15.8	95	23.6	0.017	
E590163		1	15.3	81	24.2	0.012	
E590164		0.9	15.7	83	20.4	0.011	



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CERTIFICATE OF ANALYSIS TB07150568

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590165	5.06	0.14	7.87	16.1	20	0.18	0.03	7.78	0.14	5.06	47	240	3.18	124	8.34
E590166	6.75	0.14	7.7	4.7	20	0.25	0.01	8.57	0.12	5.2	46.8	239	2.77	139.5	8.31
E590167	5.88	0.15	8.66	4	20	0.23	<0.01	7.74	0.13	5.7	52	258	2.26	114	9
E590168	5.98	0.15	8.48	2	20	0.28	0.01	7.33	0.1	5.35	46.8	259	3.06	119	8.18
E590169	5.69	0.21	8.28	0.9	70	0.4	0.01	7.34	0.11	5.3	46.9	256	12.3	134.5	8.06
E590170	5.34	0.14	8.29	1.2	30	0.19	<0.01	8.07	0.17	5.18	47.2	244	5.18	107.5	8.18
E590171	6.35	0.19	8.61	3.1	20	0.22	<0.01	8.34	0.11	5.73	49.1	265	4	118.5	8.33
E590172	6.45	0.19	7.63	1.2	10	0.19	0.01	7.24	0.14	5.65	50.8	247	3.06	146.5	7.71
E590173	6.15	0.14	8.58	1.2	70	0.18	0.01	8.6	0.1	5.33	47.4	257	10.15	114	8.18
E590174	5.69	0.14	8.45	1.3	60	0.3	0.02	8.16	0.07	5.47	46.3	254	10	107.5	8.08
E590175	6.20	0.15	7.83	2	70	0.41	0.04	7.9	0.06	5.43	41.5	233	7.11	113	7.61
E590176	2.45	5.09	7.18	21.6	190	1.2	0.14	9.74	0.11	7.83	42	133	18.3	335	7.09
E590177	4.07	0.75	7.79	9.5	130	0.68	<0.01	8.36	0.15	7.68	45.3	168	12.35	139	8.18
E590178	4.00	1.09	8.39	13.3	180	0.77	0.01	8.77	0.2	8.4	49.7	180	13.8	149.5	8.24
E590179	5.44	0.67	8.72	8.5	200	0.56	<0.01	7.49	0.13	8.45	50	196	16.7	143	8.37
E590180	4.74	0.5	8.75	6.5	210	0.93	0.01	6.91	0.16	8.94	51.6	199	22.7	140.5	8.45
E590181	3.55	0.45	8.65	4.3	140	0.8	0.03	5.64	0.14	8.48	53.4	201	16.85	144	9.03
E590182	2.47	0.49	7.72	2.9	120	0.88	0.08	6.64	0.11	8.89	48	162	10.1	105	7.93
E590183	4.88	0.59	8.96	1.9	150	0.71	0.04	4.91	0.11	8.61	53.2	205	20.8	159.5	9.12
E590184	2.79	0.07	7.52	0.9	690	0.9	0.08	0.99	0.02	11.75	3.5	13	2.28	6.8	1.22
E590185	5.58	0.59	7.96	2.7	100	0.77	0.04	6.68	0.13	7.54	44.3	165	11.05	106	8.29
E590186	6.05	0.54	8.7	3.1	170	0.84	0.01	7.59	0.14	8.01	49.7	190	18	149.5	8.26
E590187	5.62	0.41	8.65	3.2	100	1.03	0.04	5.85	0.08	8.6	48.6	189	6.82	73.4	8.39
E590188	4.88	0.48	8.43	6.3	100	0.74	0.04	3.68	0.12	8.74	48.6	205	6.94	75.4	9.06
E590189	4.97	0.71	8.47	13.7	150	0.61	0.09	5.1	0.17	8	51.6	190	18.1	145.5	8.74
E590190	5.40	0.75	8.26	14	150	0.46	0.09	4.27	0.11	8.81	58	198	8.93	158.5	9.24
E590191	4.01	0.73	8.13	10.8	180	0.85	0.2	4.65	0.11	10.65	55.4	171	13.65	158	8.28
E590192	5.22	0.19	7.82	3.9	650	1.32	0.32	2.66	0.04	48.7	9.7	36	17.45	13.1	2.24
E590193	4.52	0.11	7.87	4.3	680	1.36	0.16	2.26	0.03	50.8	8.9	37	19.2	15.8	2.27
E590194	4.63	0.16	7.62	3	1140	1.4	0.29	2.58	0.04	49.8	9.1	34	18.5	19.8	2.26
E590195	5.85	0.23	7.89	2.5	1120	1.61	0.41	2.16	0.03	50.9	10.5	37	13.95	23.5	2.27
E590196	5.95	0.1	7.95	1.4	790	1.44	0.08	1.86	0.02	52.3	9.3	33	18.05	20.5	2.05
E590197	6.22	0.09	7.68	2.9	710	1.55	0.07	2.42	0.03	50.5	10.7	41	16.35	15.1	2.41
E590198	3.46	0.58	8	6.8	650	1.27	0.43	5.47	0.07	22.7	36.4	122	13.65	93.8	6.27
E590199	4.40	0.26	7.57	3.9	800	1.02	0.2	3.83	0.04	37.3	16.3	70	9.72	38.8	3.14
E590200	5.66	0.11	7.8	2.1	1570	1.38	0.19	2.83	0.04	50.5	12.5	71	16.85	29.8	2.57
E590201	4.57	0.07	7.88	2.1	1180	1.17	0.14	2.69	0.03	50.4	12.1	69	19.6	15.3	2.59
E590202	4.65	0.07	8.04	1.9	730	1.26	0.13	2.57	0.03	52	12	69	19.3	18.7	2.53
E590203	4.33	0.05	7.85	2	650	1.24	0.1	2.76	0.03	50.1	12.2	66	18.3	15.7	2.62
E590204	5.14	0.03	7.62	2.1	680	1.16	0.09	2.93	0.04	47.9	12.4	65	18.5	6.8	2.53



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ALS Canada Ltd.

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North Vancouver BC V7J 2C1

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

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Finalized Date: 21-FEB-2008

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07150568

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte Units LOR	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590165		14.9	0.13	0.6	0.043	0.11	1.9	79.3	4.44	1480	0.27	1.52	1.4	102.5	220	1.5
E590166		14.85	0.13	0.7	0.045	0.12	1.9	67.5	4.48	1505	0.46	1.56	1.5	100	210	1.4
E590167		16.5	0.14	0.9	0.05	0.11	2.2	68.4	5.32	1495	0.31	1.84	1.6	110.5	240	1.5
E590168		16.05	0.16	0.7	0.055	0.14	2	66.2	5	1425	0.48	1.82	1.8	98.7	240	1.7
E590169		15.8	0.15	0.7	0.058	0.54	2	91.2	4.9	1370	0.97	1.02	1.6	101	230	1.7
E590170		15.8	0.15	0.8	0.057	0.23	1.9	53.4	4.79	1435	0.26	1.44	1.7	96.7	220	1.7
E590171		16.8	0.16	0.6	0.06	0.18	2.1	57.3	4.96	1455	0.4	1.26	1.7	102.5	230	1.2
E590172		16.7	0.16	0.6	0.059	0.13	2.1	52.7	4.43	1340	0.38	1.3	1.8	97.9	220	1.1
E590173		16.1	0.16	0.8	0.054	0.53	2	75.4	4.62	1385	0.4	0.89	1.7	98.6	240	1.3
E590174		16.35	0.16	0.8	0.053	0.49	2	74.8	4.77	1385	0.4	1.03	1.7	101	240	1.2
E590175		16	0.16	0.7	0.053	0.58	2	106.5	4.43	1330	1.99	0.42	1.6	92.5	210	1.1
E590176		15.05	0.14	1.2	0.061	1.29	3.1	135	3.18	1570	0.47	1.41	2.2	84	260	7.3
E590177		17.15	0.14	1.2	0.06	0.92	2.9	139.5	3.47	1460	0.43	1.12	2.3	94.2	280	5.5
E590178		18.05	0.16	1.3	0.068	1.3	3.1	160.5	3.3	1455	0.42	1.31	2.6	103.5	330	8.5
E590179		18	0.16	1.4	0.069	1.28	3.1	156	3.98	1475	0.39	1.04	2.6	107.5	330	7.4
E590180		18.75	0.17	1.5	0.069	1.45	3.4	189.5	4.26	1395	0.44	0.7	2.7	111	320	9.7
E590181		19	0.18	1.5	0.066	0.94	3.1	190.5	5.55	1400	0.76	0.64	2.6	112	330	6.2
E590182		18.1	0.18	1.4	0.044	0.71	3.6	234	7.64	1405	1.69	0.32	2	101	320	3.8
E590183		18.45	0.19	1.6	0.074	1.03	3.2	190	5.27	1375	0.38	0.88	2.6	109.5	370	8.1
E590184		17.65	0.08	2	0.012	1.46	5.9	19.8	0.43	177	0.21	3.54	1.3	7	220	6.5
E590185		17.15	0.17	1.3	0.059	0.6	2.8	154.5	5.77	1500	0.85	0.92	2.2	100.5	330	12.1
E590186		17.3	0.15	1.4	0.072	0.83	3	106.5	3.96	1545	0.36	1.38	2.7	104	330	7.9
E590187		21.1	0.19	1.5	0.05	0.52	3.2	241	8.44	1565	0.73	0.53	2.1	113.5	350	5.2
E590188		21.4	0.21	1.8	0.05	0.61	3.2	286	8.89	1455	1.81	0.44	2.6	122	350	3.9
E590189		18.15	0.19	1.4	0.062	0.87	2.9	212	6.34	1385	1.81	0.91	2.4	115.5	330	6.8
E590190		19.65	0.2	1.6	0.059	0.53	3.3	215	6.53	1510	0.51	0.73	2.7	112	360	8.6
E590191		19.75	0.26	1.7	0.063	0.81	4.4	196.5	5.89	1480	0.84	0.89	2.6	107.5	330	11.7
E590192		22.7	0.21	3.3	0.018	1.69	24.1	116.5	1.32	358	1.27	2.38	2.7	31.3	570	17.5
E590193		22.9	0.21	3.4	0.024	1.98	25.3	108	1.03	334	0.47	2.06	2.5	31	600	14.9
E590194		21.6	0.22	3.3	0.02	1.97	24.7	94.4	1.07	360	0.94	2.07	2.7	29.2	580	17.4
E590195		23.2	0.23	3.4	0.023	2.33	24.9	90.6	0.99	320	1.56	1.9	2.3	34.1	560	19.8
E590196		23.1	0.2	3.4	0.02	2.6	26.1	80.7	0.93	267	0.53	1.63	2.6	35.4	570	14.2
E590197		22.4	0.22	3.4	0.017	1.99	24.8	74.1	1.17	351	0.54	2	2.7	36.1	540	17.3
E590198		19.35	0.25	2.1	0.042	1.54	11.1	106	3.8	1050	1.75	1.8	2.7	81.4	360	16.6
E590199		19.9	0.23	2.9	0.028	1.28	19	72.3	1.97	573	0.98	2.82	2.8	56.4	470	15.4
E590200		22.2	0.21	3.3	0.023	2.14	25.7	71.2	1.5	401	0.61	1.91	2.7	51.4	560	15.6
E590201		21.9	0.21	3.1	0.024	2.11	25.7	66	1.41	396	0.32	2.19	3.1	50.7	580	14.4
E590202		22.4	0.23	3.3	0.022	2.22	26.4	65.7	1.36	380	0.34	2.25	3.3	51.5	610	14.7
E590203		22.1	0.22	3.3	0.021	1.96	25.4	61.4	1.41	413	0.37	2.34	3.2	49.8	590	15.5
E590204		21.3	0.22	3.1	0.021	1.81	24.2	59.2	1.47	413	0.28	2.52	3.3	49.2	570	16.5



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North Vancouver BC V7J 2C1

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

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CERTIFICATE OF ANALYSIS TB07150568

Sample Description	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1
E590165	3.8	<0.002	0.11	1.27	40.3	2	0.4	266	0.1	0.07	0.2	0.408	0.04	<0.1	233
E590166	4.2	<0.002	0.34	1.09	40.2	2	0.5	186.5	0.1	0.07	0.2	0.395	0.04	<0.1	222
E590167	3.1	<0.002	0.12	1.01	45.4	2	0.5	157	0.12	0.05	0.2	0.457	0.03	<0.1	260
E590168	4.8	<0.002	0.17	0.85	41.7	1	0.4	138.5	0.11	<0.05	0.2	0.449	0.06	<0.1	237
E590169	31.8	<0.002	0.53	0.69	41	1	0.4	108	0.1	0.09	<0.2	0.427	0.27	<0.1	235
E590170	9.8	<0.002	0.16	0.9	40.2	1	0.4	123	0.1	<0.05	<0.2	0.425	0.1	<0.1	230
E590171	7.1	<0.002	0.11	1.16	42.5	<1	0.4	241	0.11	<0.05	<0.2	0.441	0.07	<0.1	240
E590172	5.7	<0.002	0.23	0.87	42.3	1	0.5	161	0.11	0.07	<0.2	0.419	0.06	<0.1	222
E590173	32.1	<0.002	0.31	0.79	41	1	0.5	121.5	0.1	0.06	<0.2	0.437	0.29	<0.1	236
E590174	29.4	<0.002	0.14	0.78	40.9	1	0.5	129	0.1	<0.05	<0.2	0.441	0.25	<0.1	236
E590175	32.3	<0.002	0.39	0.8	38.4	1	0.4	204	0.09	0.08	<0.2	0.399	0.28	<0.1	222
E590176	64.8	<0.002	3.35	2.14	34.4	3	0.6	338	0.13	3.39	0.2	0.481	0.57	0.1	215
E590177	45.2	<0.002	0.64	1.8	36.3	1	0.6	256	0.14	0.37	0.2	0.524	0.38	0.1	238
E590178	62.4	<0.002	1.76	2.78	39.7	1	0.6	288	0.15	0.36	0.2	0.573	0.52	0.1	250
E590179	60.5	<0.002	0.83	1.9	41.9	1	0.6	286	0.16	0.12	0.2	0.618	0.53	0.1	268
E590180	72.5	<0.002	0.84	1.66	43	1	0.6	315	0.16	0.14	0.2	0.616	0.61	0.1	269
E590181	37.2	<0.002	0.89	1.15	43.1	1	0.7	257	0.16	0.22	0.2	0.614	0.43	0.1	277
E590182	31.2	<0.002	1.21	0.63	44.9	1	0.5	121	0.13	0.2	0.2	0.446	0.24	0.1	245
E590183	47.4	<0.002	1.45	0.76	43.9	1	0.6	255	0.16	0.18	0.2	0.615	0.45	0.1	279
E590184	53.3	<0.002	0.08	0.19	2.9	<1	0.5	429	0.08	<0.05	1.4	0.075	0.3	0.5	19
E590185	26.2	<0.002	1.42	0.8	39.1	1	0.6	219	0.14	0.22	0.2	0.521	0.24	0.1	248
E590186	41.2	<0.002	0.9	1.27	41.1	1	0.6	288	0.16	0.16	0.2	0.61	0.34	0.1	266
E590187	20.2	<0.002	1.06	1.07	58.4	1	0.6	182.5	0.13	0.15	0.3	0.483	0.18	0.1	277
E590188	21.3	<0.002	0.68	0.88	56.7	1	0.6	127	0.16	0.2	0.3	0.572	0.22	0.1	285
E590189	37.9	0.003	1.25	1.15	43.3	1	0.5	320	0.14	0.31	0.2	0.535	0.39	0.1	259
E590190	18.9	0.002	1.42	1.31	63.4	2	0.5	383	0.16	0.35	0.3	0.6	0.22	0.1	277
E590191	32.8	0.002	1.33	1.26	45.7	2	0.6	520	0.21	0.31	0.5	0.528	0.34	0.1	266
E590192	62.2	<0.002	0.21	1.17	6.1	2	0.7	567	0.23	0.21	5.2	0.172	0.49	1.6	45
E590193	73.1	<0.002	0.12	1.49	6.2	2	0.7	513	0.23	0.12	5.2	0.168	0.56	1.4	42
E590194	72.5	<0.002	0.17	1.73	5.8	1	0.7	719	0.22	0.18	5.1	0.163	0.57	1.5	41
E590195	77.8	<0.002	0.15	1.17	5.8	2	0.7	607	0.2	0.08	5.4	0.162	0.56	1.8	45
E590196	87.4	<0.002	0.03	1.36	6	2	0.7	507	0.21	<0.05	5.4	0.174	0.61	1.5	44
E590197	72.3	<0.002	0.03	1.52	6	1	0.8	601	0.22	<0.05	5.4	0.198	0.53	1.5	44
E590198	54.1	<0.002	0.75	2	27.7	2	0.7	767	0.21	0.25	2.1	0.391	0.43	0.9	176
E590199	43.5	<0.002	0.22	1.89	10.8	2	0.7	822	0.23	0.11	4.2	0.222	0.35	1.5	77
E590200	70	<0.002	0.06	2.74	7.5	2	0.7	1370	0.23	<0.05	5.8	0.186	0.55	2.2	53
E590201	74.3	<0.002	0.04	2.6	7	2	0.7	973	0.26	<0.05	5.9	0.199	0.55	1.6	49
E590202	76.2	<0.002	0.02	3.38	7.4	1	0.8	655	0.27	<0.05	6.1	0.204	0.53	1.7	51
E590203	70.2	<0.002	0.02	2.8	7	2	0.7	557	0.27	<0.05	5.9	0.2	0.52	1.8	51
E590204	64.6	<0.002	0.01	2.96	6.9	2	0.8	625	0.27	<0.05	5.7	0.197	0.51	1.6	49



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Finalized Date: 21-FEB-2008

Account: HPQ

Project: 244500

CERTIFICATE OF ANALYSIS TB07150568

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	Au-AA25
	Analyte	W	Y	Zn	Zr	Au	Au
Units		ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.1	0.1	2	0.5	0.001	0.01
E590165		1	15	79	14.6	0.042	
E590166		2	15.1	81	19.9	0.014	
E590167		0.8	16.6	80	23.9	0.042	
E590168		0.8	16.1	80	20.3	0.012	
E590169		1.7	15.5	84	20.9	0.008	
E590170		1.1	15.5	98	20.9	0.009	
E590171		0.7	16.6	92	16.2	0.018	
E590172		0.7	16.5	86	18.1	0.019	
E590173		0.8	15.7	77	22.9	0.008	
E590174		1.4	16.2	77	22.8	0.014	
E590175		5.8	15.5	70	19.7	0.022	
E590176		8.1	17.7	76	34.9	0.063	
E590177		3.2	18.2	103	37.5	0.011	
E590178		8.5	19.5	110	41.7	0.022	
E590179		6.2	19.7	104	41.8	0.051	
E590180		3.8	20.3	117	45	0.030	
E590181		6	20.4	107	45	0.034	
E590182		3.3	20.3	102	41.9	0.035	
E590183		6.1	20.4	103	49.2	0.032	
E590184		2.1	1.9	37	64.9	0.002	
E590185		15.2	17.9	117	38.5	0.037	
E590186		14.6	20	105	42.2	0.018	
E590187		10.2	23	121	46.7	0.025	
E590188		5	22.3	150	53.8	0.015	
E590189		4.4	19.4	118	42.6	0.031	
E590190		2.9	22.5	115	49.2	0.036	
E590191		4.4	19.9	99	53.5	0.028	
E590192		0.8	5.3	57	109.5	0.010	
E590193		0.6	5.4	62	113	0.008	
E590194		0.6	5.1	60	107.5	0.006	
E590195		0.9	5.1	61	114	0.009	
E590196		0.9	5	57	112.5	0.005	
E590197		1	5.6	58	112	0.002	
E590198		6.4	12.8	117	72	0.060	
E590199		3.9	7.1	74	96.2	0.029	
E590200		1.7	6.1	63	110	0.004	
E590201		1	6	59	104	0.001	
E590202		0.6	6.1	59	112.5	0.001	
E590203		0.4	5.9	60	109.5	0.004	
E590204		0.4	6	62	104	0.002	



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CERTIFICATE OF ANALYSIS TB07150568

Sample Description	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
E590205	5.97	0.08	7.66	2	890	1.17	0.09	2.55	0.04	47.1	11.9	62	16.35	17.5	2.42
E590206	4.20	0.04	7.88	1.8	760	1.07	0.06	2.49	0.03	49.8	12.4	66	16.4	11	2.54
E590207	7.65	0.03	7.76	1.8	720	1.16	0.06	2.58	0.03	47.7	11.9	65	17.15	13.8	2.52
E590208	4.66	0.07	7.34	2.6	500	1.01	0.08	2.95	0.05	48.5	15.1	84	16.7	17.2	3
E590209	5.26	0.07	7.69	2	780	1.16	0.05	2.67	0.06	48.9	11.5	61	18.55	14.9	2.51
E590210	4.68	0.06	7.69	2.7	650	1.16	0.05	2.71	0.04	50.5	11.9	63	19.7	16.4	2.51
E590211	0.05	1.67	2.79	4100	310	0.75	70.5	0.84	0.17	29.7	11.7	229	1.09	95.7	2.56
E590212	5.12	0.05	7.22	9.3	870	1.13	0.46	2.47	0.02	46.9	11.5	65	18.3	12.1	2.44
E590213	4.58	0.03	7.56	3.8	910	1.06	0.15	2.49	0.03	46.6	11	61	14.45	15.9	2.44
E590214	3.93	0.03	7.45	3.2	580	1.16	0.08	2.58	0.04	48.2	11.3	63	18.05	6.2	2.43
E590215	3.02	0.08	9.35	10	640	1.35	0.33	5.23	0.09	70.2	37.8	139	7.75	11.1	6.36
E590216	4.05	0.04	7.73	2.2	730	1.34	0.09	2.83	0.04	51.2	12.7	72	16.9	8.5	2.63
E590217	3.83	0.05	7.67	1.9	660	1.06	0.07	2.67	0.04	47.7	11.3	63	18.1	14.8	2.4



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CERTIFICATE OF ANALYSIS TB07150568

Method Analyte Units LOR	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm
Sample Description	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
E590205	21.7	0.23	3.2	0.02	1.93	23.4	57.8	1.34	383	0.29	2.53	3.3	48.1	590	15.4
E590206	22.3	0.2	3.3	0.02	1.69	25	57.5	1.34	389	0.32	2.85	3.4	50.2	560	15
E590207	21.3	0.21	3.1	0.018	1.95	23.9	58.3	1.37	396	0.37	2.53	3	48.1	580	14.3
E590208	20.8	0.21	3.1	0.022	1.55	24.8	56.4	1.7	467	0.32	2.62	3.5	61.9	600	15
E590209	20.9	0.2	3.1	0.022	2.02	24.7	58.8	1.36	389	0.34	2.39	3	47.6	580	16.3
E590210	21.5	0.19	3.2	0.022	2	25.5	61.9	1.38	393	0.36	2.45	3.2	49.3	560	16.5
E590211	7.9	0.17	1	0.027	1.35	15	5.7	0.36	260	11.6	0.22	5.3	16.5	250	25.1
E590212	20.2	0.22	3	0.02	1.74	23.6	57.9	1.31	380	0.91	2.68	3.1	47.6	550	14.1
E590213	20.5	0.22	3.1	0.022	1.9	23.7	59	1.33	363	0.34	2.69	3	45.4	570	11.6
E590214	20.4	0.22	3.1	0.02	1.63	24.4	58.9	1.32	387	0.32	2.67	3.4	44.5	550	14.6
E590215	27.5	0.33	4.7	0.076	1.36	35.2	66.3	3.17	1335	0.37	2.91	6.4	113	1020	11.3
E590216	21.4	0.23	3.1	0.021	1.8	26.1	63.5	1.45	424	0.36	2.64	3.6	49.9	600	15.4
E590217	21.2	0.22	3.1	0.02	2	23.8	63.3	1.34	376	0.27	2.43	3.1	46.5	570	16.2



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CERTIFICATE OF ANALYSIS TB07150568

Sample Description	Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
E590205		65.9	<0.002	0.02	2.76	6.9	1	0.7	585	0.27	<0.05	5.7	0.198	0.51	1.6	49
E590206		58.1	<0.002	0.02	2.21	7	1	0.8	566	0.28	<0.05	5.9	0.202	0.43	1.7	50
E590207		65.1	<0.002	0.03	1.83	6.8	1	0.7	534	0.25	<0.05	5.7	0.193	0.46	1.6	49
E590208		56	<0.002	0.03	2.57	7.9	1	0.8	524	0.27	<0.05	5.8	0.281	0.41	1.6	58
E590209		70	<0.002	0.02	2.54	6.8	2	0.7	591	0.24	<0.05	5.8	0.193	0.48	1.6	49
E590210		70.1	<0.002	0.02	2.31	6.9	2	0.8	664	0.26	<0.05	5.9	0.197	0.48	1.8	49
E590211		63.5	0.004	0.99	7.11	4.7	5	3.6	62.3	1.38	23.3	5.8	0.136	0.27	1.2	28
E590212		59.6	<0.002	0.01	2.73	6.6	2	0.7	540	0.27	0.12	5.6	0.19	0.44	1.5	48
E590213		60.6	<0.002	0.02	2.23	6.6	1	0.7	599	0.25	0.06	5.7	0.187	0.39	1.6	48
E590214		59.6	<0.002	0.02	2.1	6.5	1	0.7	501	0.27	0.05	5.6	0.2	0.41	1.6	46
E590215		55.4	<0.002	0.22	2.96	14.5	3	2.2	745	0.38	0.05	8.1	0.878	0.35	2.1	107
E590216		64.7	<0.002	0.04	2.64	6.9	1	0.8	579	0.27	<0.05	6	0.221	0.45	1.7	52
E590217		66.7	<0.002	0.01	2.45	6.7	1	0.8	539	0.26	<0.05	5.7	0.194	0.48	1.7	50



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Project: 244500

CERTIFICATE OF ANALYSIS TB07150568

Sample Description	Method Analyte Units LOR	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001	Au-AA25 Au ppm 0.01
E590205		0.9	5.8	59	106.5	0.001	
E590206		1.9	6.1	62	109.5	0.005	
E590207		1.1	5.8	59	103	0.002	
E590208		1.3	7	67	104.5	0.002	
E590209		0.8	5.8	60	103	0.003	
E590210		0.6	5.9	60	107.5	0.004	
E590211		134	6.7	29	8.7	>10.0	19.05
E590212		2.7	5.5	58	101	0.011	
E590213		1.8	5.7	57	104.5	0.028	
E590214		1.8	5.7	58	104	0.008	
E590215		2.2	16.9	144	161	0.004	
E590216		2.4	6.1	60	106.5	<0.001	
E590217		1.3	5.8	56	105.5	0.005	



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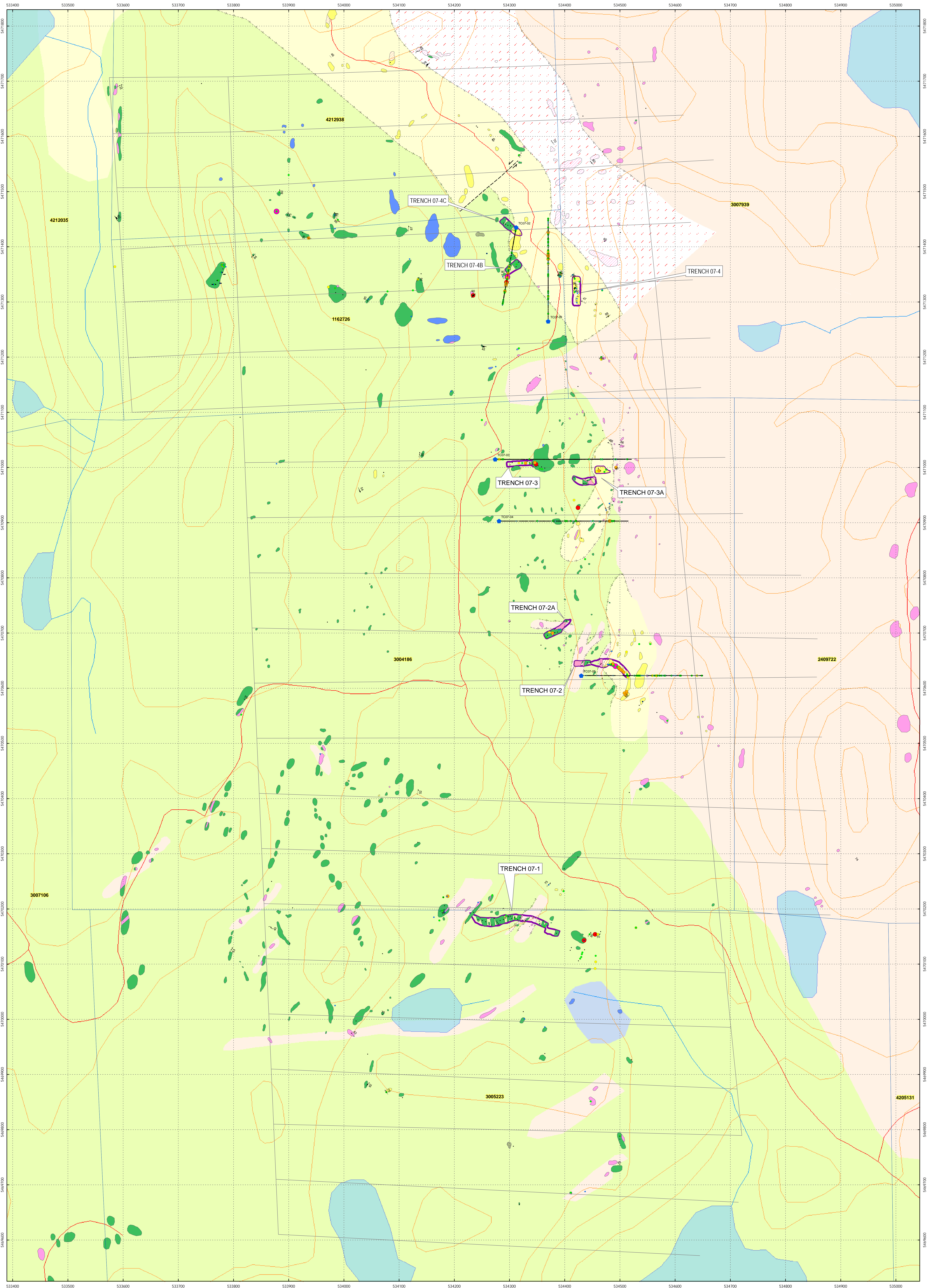
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Total # Appendix Pages: 1
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CERTIFICATE OF ANALYSIS TB07150568

Method	CERTIFICATE COMMENTS
ME-MS61	REE's may not be totally soluble in this method.



Legend

Geology 2007

- Mafic Volcanic
- Felsic Volcanic
- Sedimentary
- Mafic Intrusive
- Felsic Intrusive
- Unknown

STRUCTURE

- Bedding
- Clast Orientation
- Foliation
- Joint
- Shear
- Strain

GEOCHEMISTRY

Au_ppm

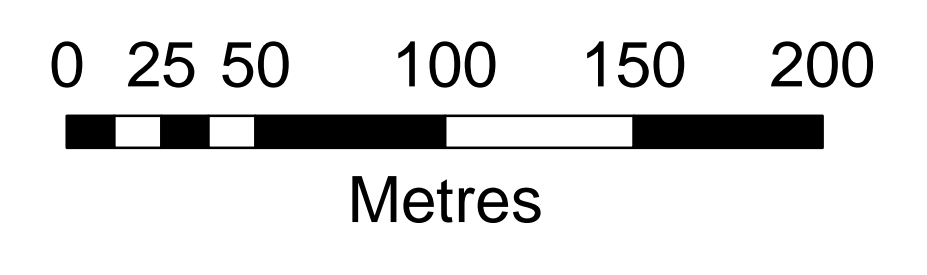
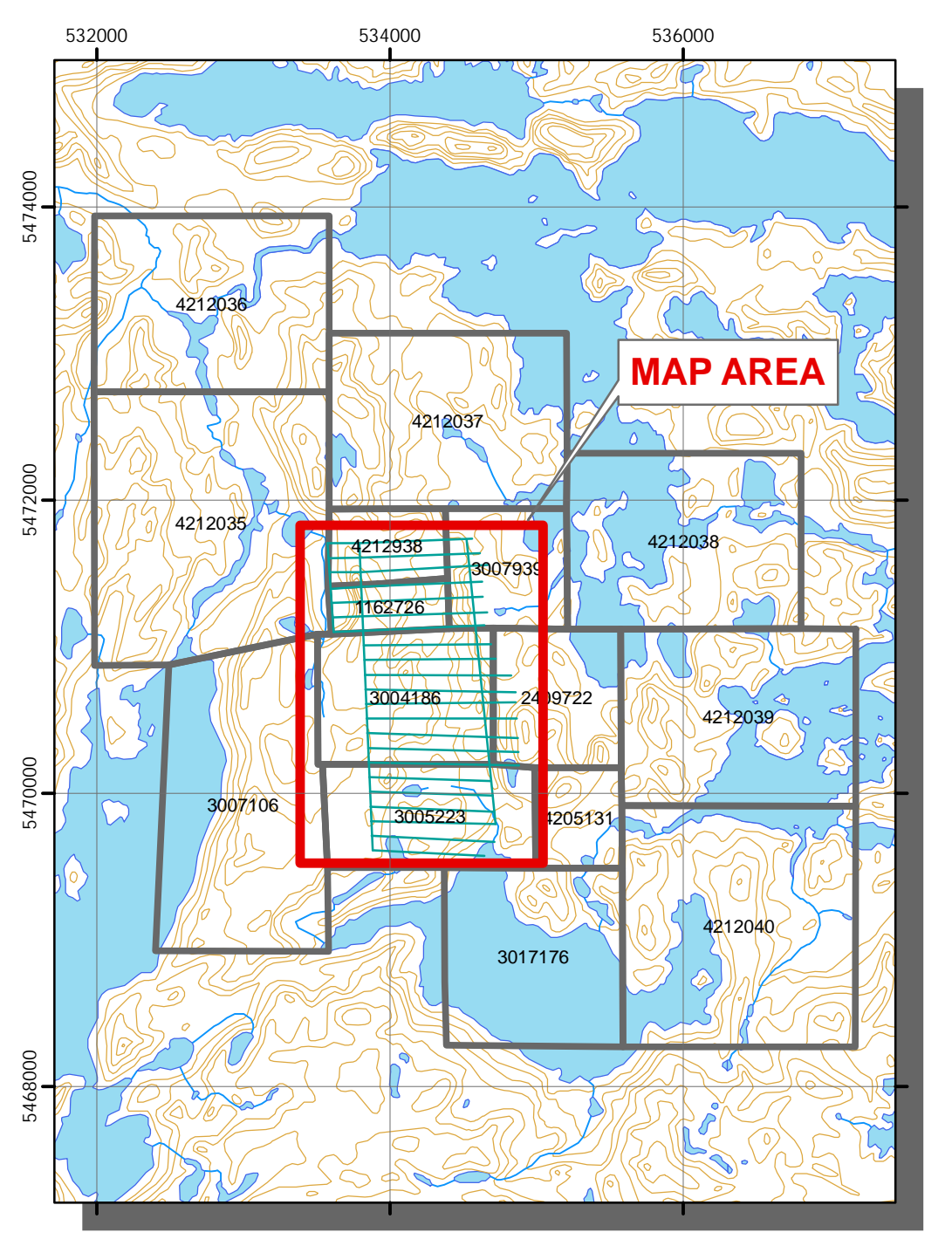
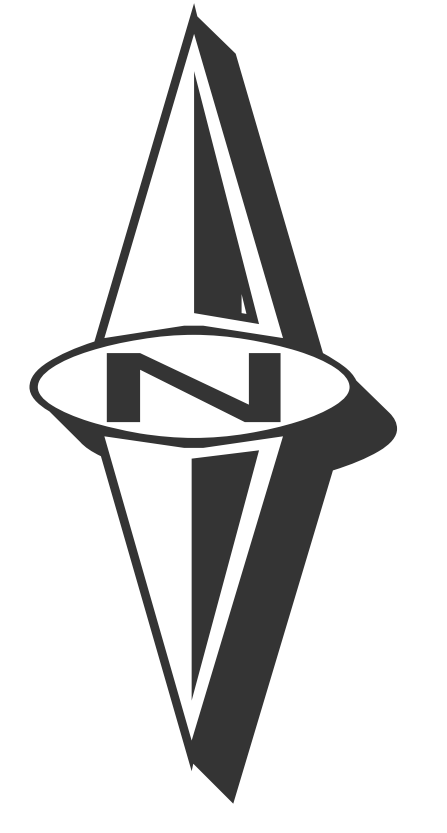
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- 0.10 - 0.50 ppm Au
- 0.50 - 1.00 ppm Au
- 1.00 - 5.00 ppm Au
- 5.00 - 10.00 ppm Au
- >10.00 ppm Au

TRENCH LOCATION 2007

2007 GRID LOCATION

2007 DDH TRACE

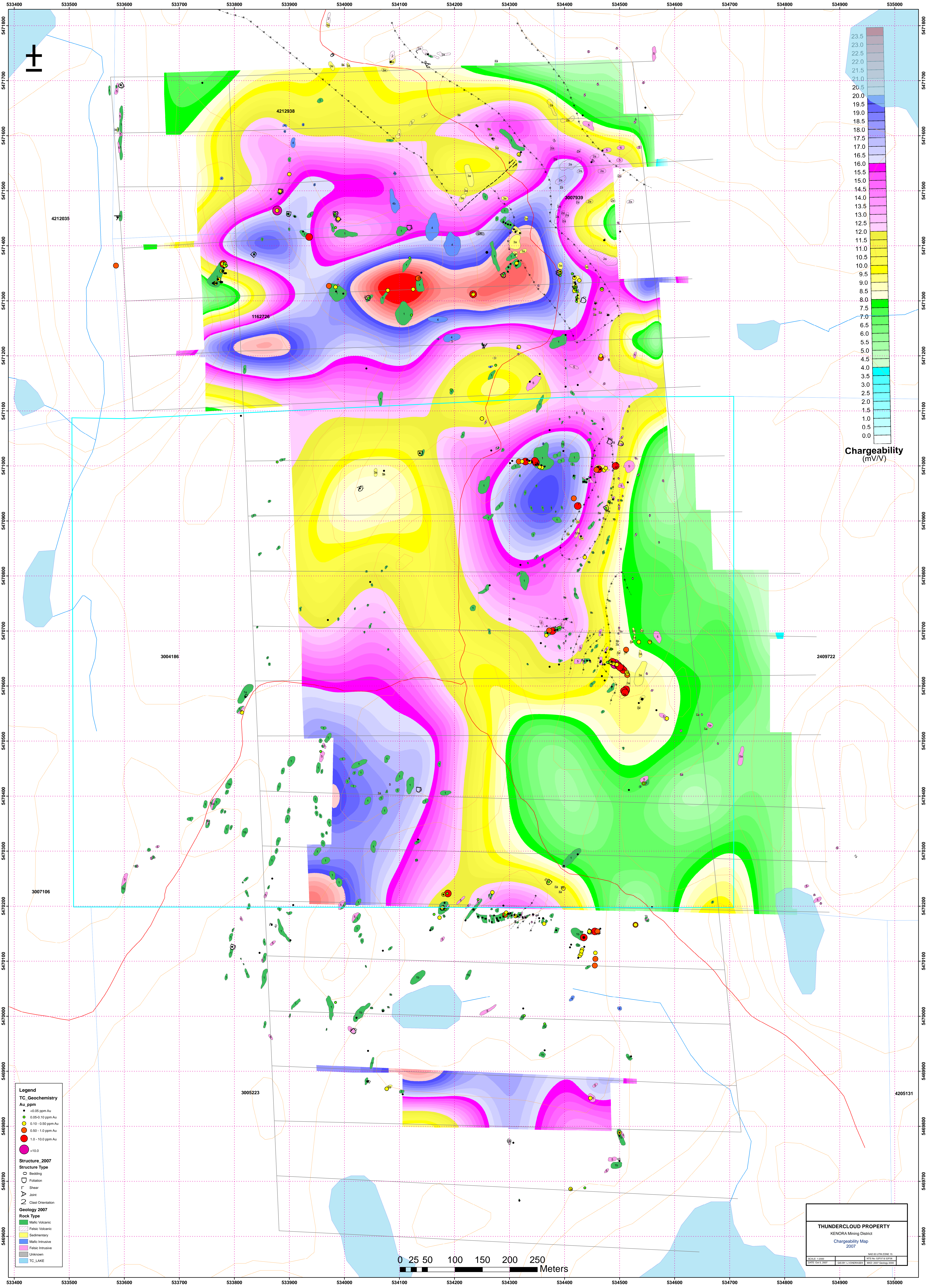
2007 COLLAR LOCATION



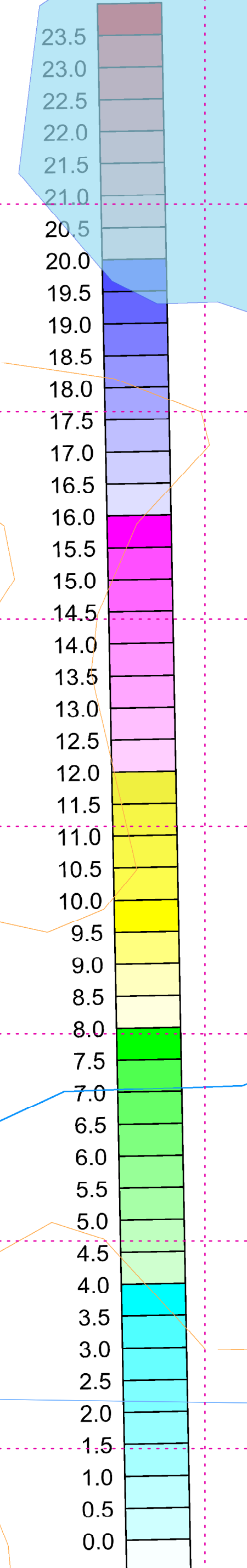
THUNDERCLOUD PROPERTY
KENORA MINING DISTRICT

GEOLOGY, SAMPLING, & DRILLING 2007

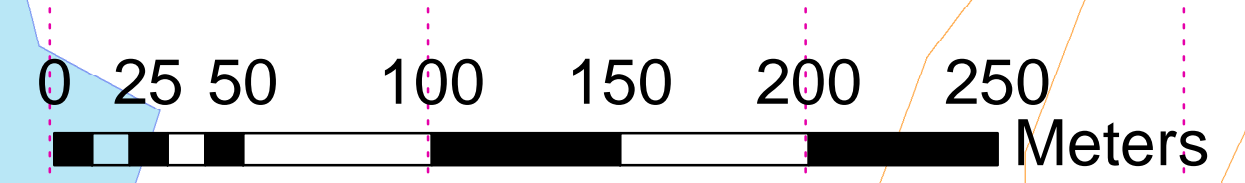
NTS: 50% & 50%	DRAWN BY: GEMMA EVANS	MAP BY: LITIA ZHANG
SCALE: 1:5000	DATE: JULY	PROJECT NO.: 2007



Chargeability (mV/V)

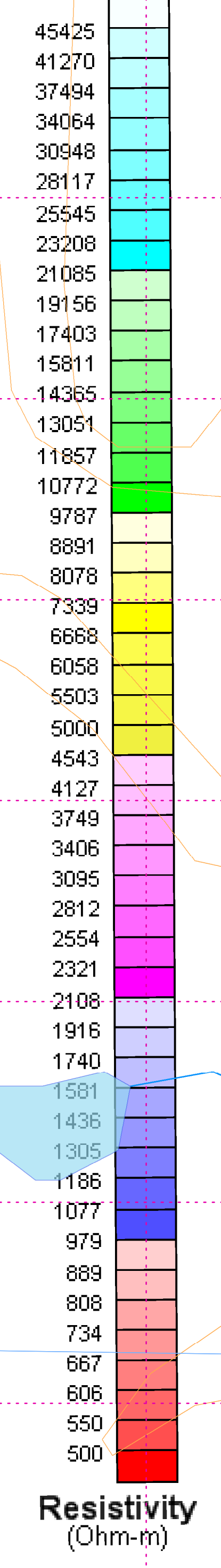
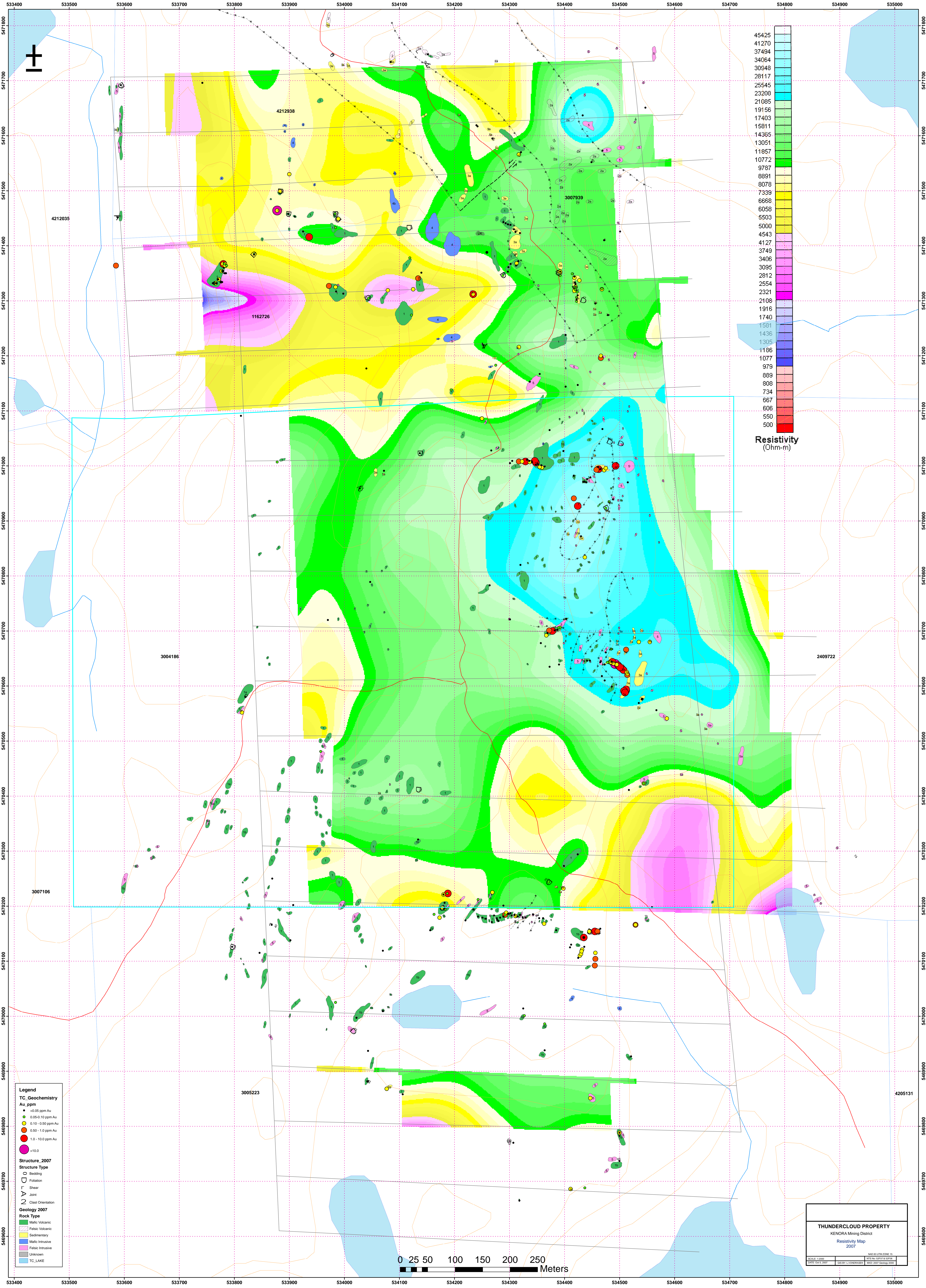


- Legend**
- TC_Geochemistry**
 Au_ppm
 ● <0.05 ppm Au
 ● 0.05-0.10 ppm Au
 ● 0.10-0.50 ppm Au
 ● 0.50-1.00 ppm Au
 ● 1.0-10.0 ppm Au
 ● >10.0
- Structure_2007**
 Structure Type
 □ Breaching
 □ Foliation
 □ Shear
 □ Joint
 □ Class Orientation
- Geology_2007**
 Rock Type
 ■ Mafic Volcanic
 ■ Felsic Volcanic
 ■ Sedimentary
 ■ Mafic Intrusive
 ■ Felsic Intrusive
 ■ Unknown
 ■ TC LAKE



THUNDERCLOUD PROPERTY
 KENORA Mining District
 Chargeability Map
 2007

Scale 1:2000
 UTM Zone 18 UTM
 WGS 1984
 NAD 83 UTM Zone 18
 UTM Proj. 18 UTM
 WGS 1984
 NAD 83 UTM Zone 18

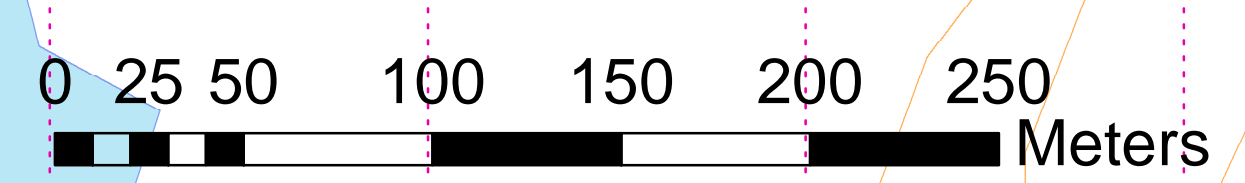


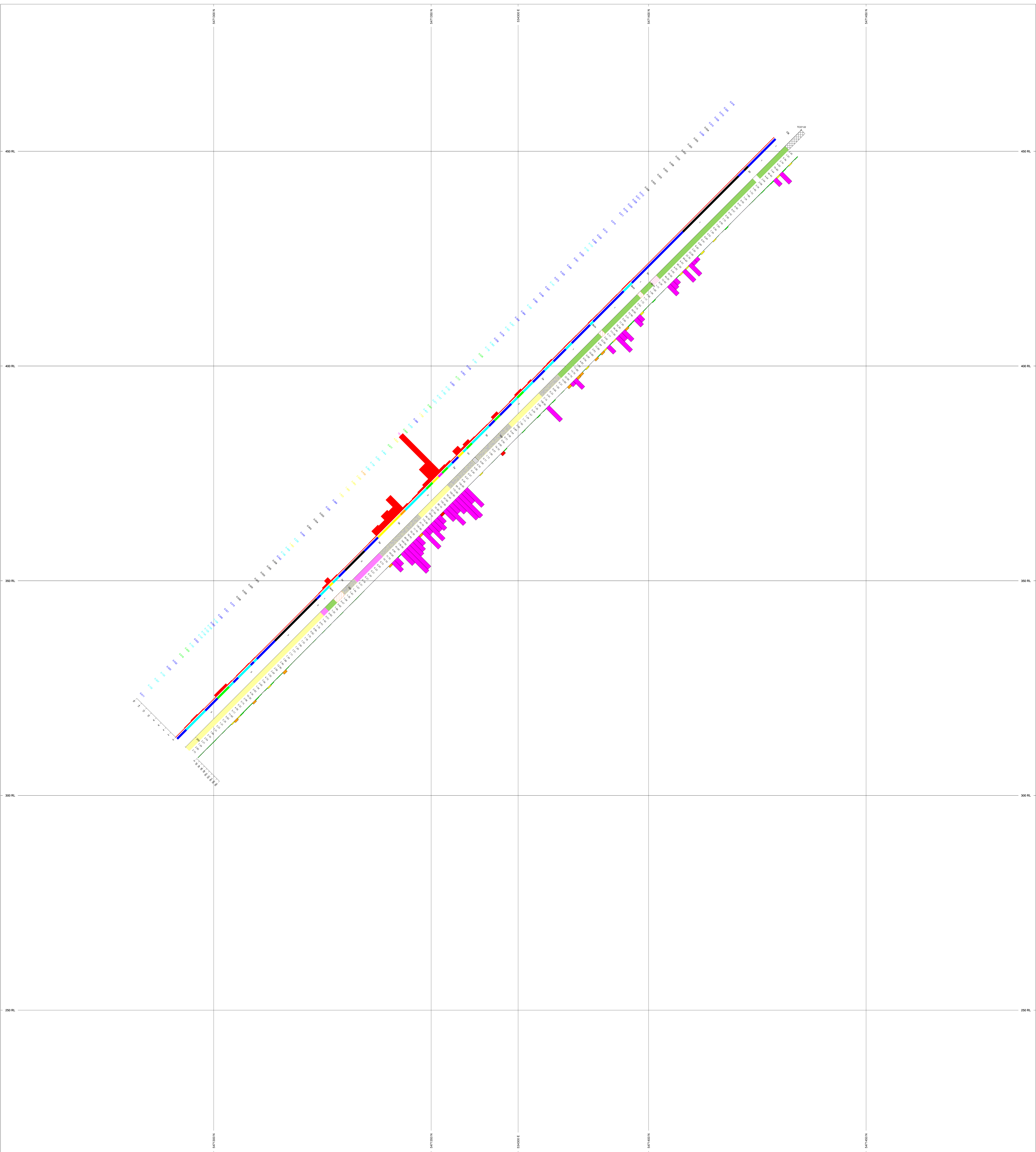
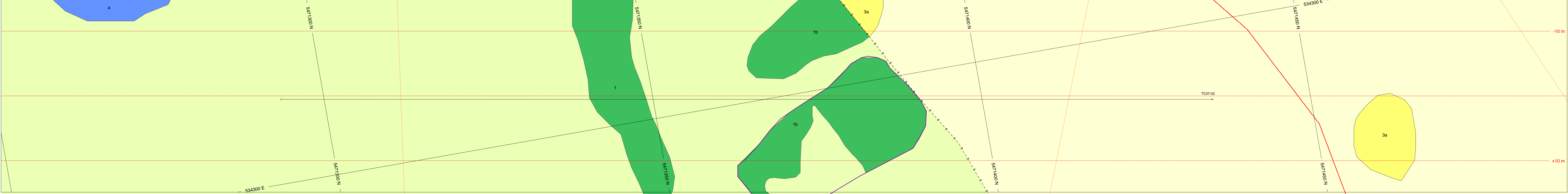
Resistivity
(Ohm-m)

- Legend**
- TC Geochemistry**
Au ppm
- <0.05 ppm Au
 - 0.05-0.10 ppm Au
 - 0.10-0.50 ppm Au
 - 0.50-1.00 ppm Au
 - 1.0-10.0 ppm Au
 - >10.0
- Structure 2007**
Structure Type
- Banding
 - Foliation
 - Shear
 - Joint
 - Cleat Orientation
- Geology 2007**
Rock Type
- Mafic Volcanic
 - Felsic Volcanic
 - Sedimentary
 - Mafic Intrusive
 - Felsic Intrusive
 - Unknown
 - TC LAKE

THUNDERCLOUD PROPERTY
KENORA Mining District
Resistivity Map
2007

Scale 1:2000
NAD 83 UTM ZONE 18
UTM Proj. EPSG:31478
Date: 2007-09-27
Scale by: L. DICKSON
Map by: L. DICKSON





AXIS CODES
 L/R: L, R
 A/L, A/R, U/D: A/L, A/R, U/D
 Description: Description

NUMBER BANDS
 L/R: L, R
 A/L, A/R, U/D: A/L, A/R, U/D
 Description: Description

BODY CODES
 L/R: L, R
 A/L, A/R, U/D: A/L, A/R, U/D
 Description: Description

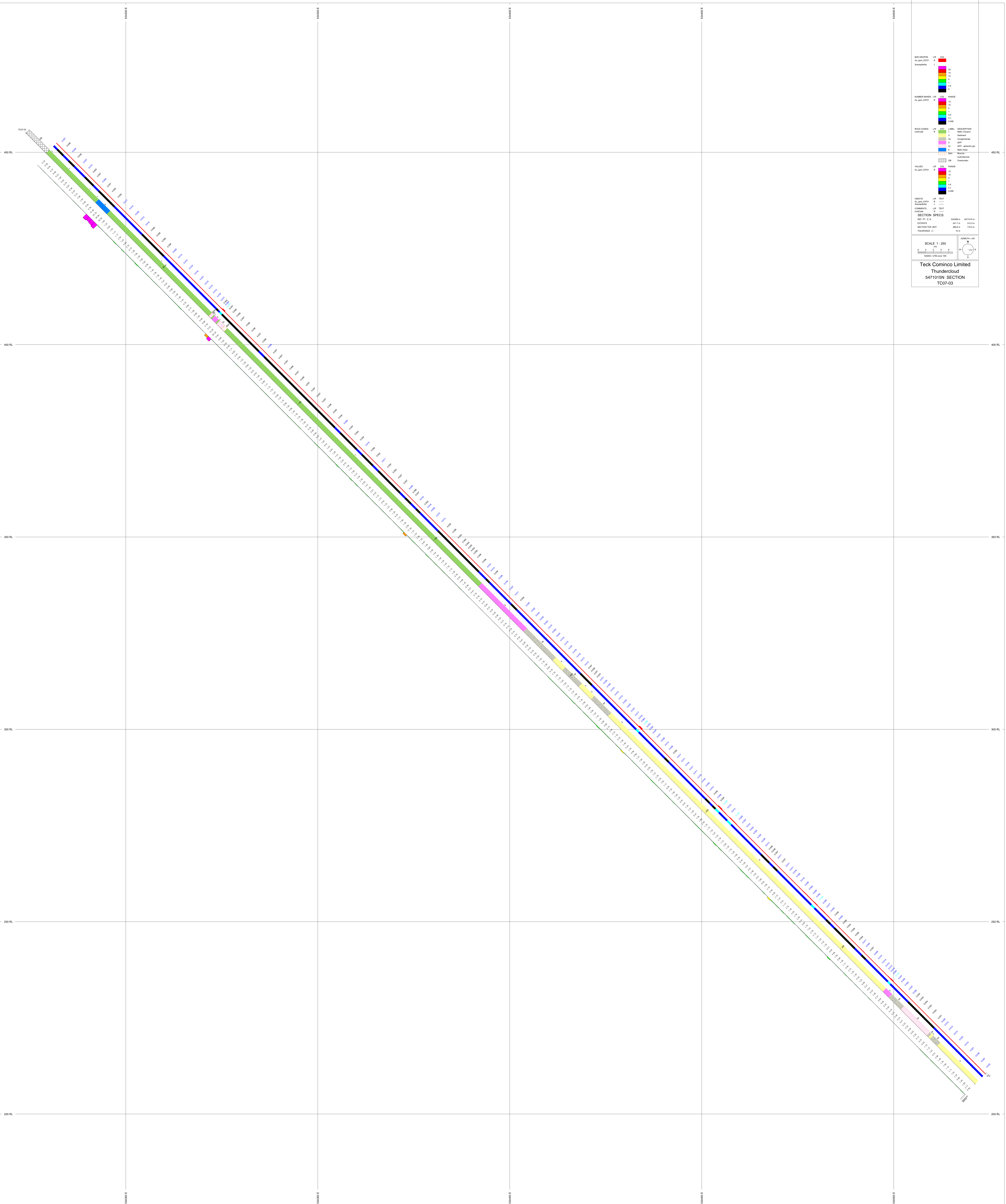
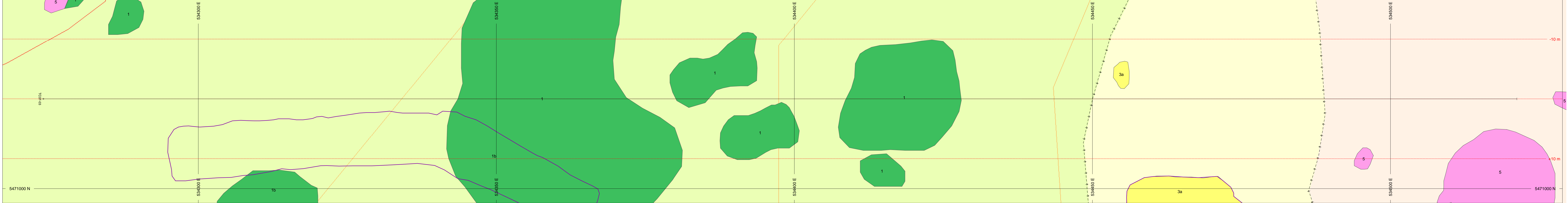
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 A/L, A/R, U/D: A/L, A/R, U/D
 Description: Description

ABBREVS
 A/L, A/R, U/D: A/L, A/R, U/D
 Description: Description

SECTION SPECS:
 800 FT E IN: 800 FT E IN
 EXISTENCE: EXISTENCE
 SECTION TOP: SECTION TOP
 TOLERANCE: TOLERANCE

SCALE 1 : 250
 0 1 2 3 4 5
 METERS (1/31.68 FEET)

Teck Cominco Limited
 Thundercloud
 534300E SECTION
 TCO7-02



NAME	LR	CS	RANGE
BASE GRADE	10	10	10
BASE GRADE	10	10	10
BASE GRADE	10	10	10

NAME	LR	CS	RANGE
BASE GRADE	10	10	10
BASE GRADE	10	10	10
BASE GRADE	10	10	10

CODE	LR	CS	DESCRIPTION
1	1	1	Subgrade
2	2	2	Base
3	3	3	Subgrade
4	4	4	Subgrade
5	5	5	Subgrade
6	6	6	Subgrade
7	7	7	Subgrade
8	8	8	Subgrade
9	9	9	Subgrade
10	10	10	Subgrade
11	11	11	Subgrade
12	12	12	Subgrade
13	13	13	Subgrade
14	14	14	Subgrade
15	15	15	Subgrade
16	16	16	Subgrade
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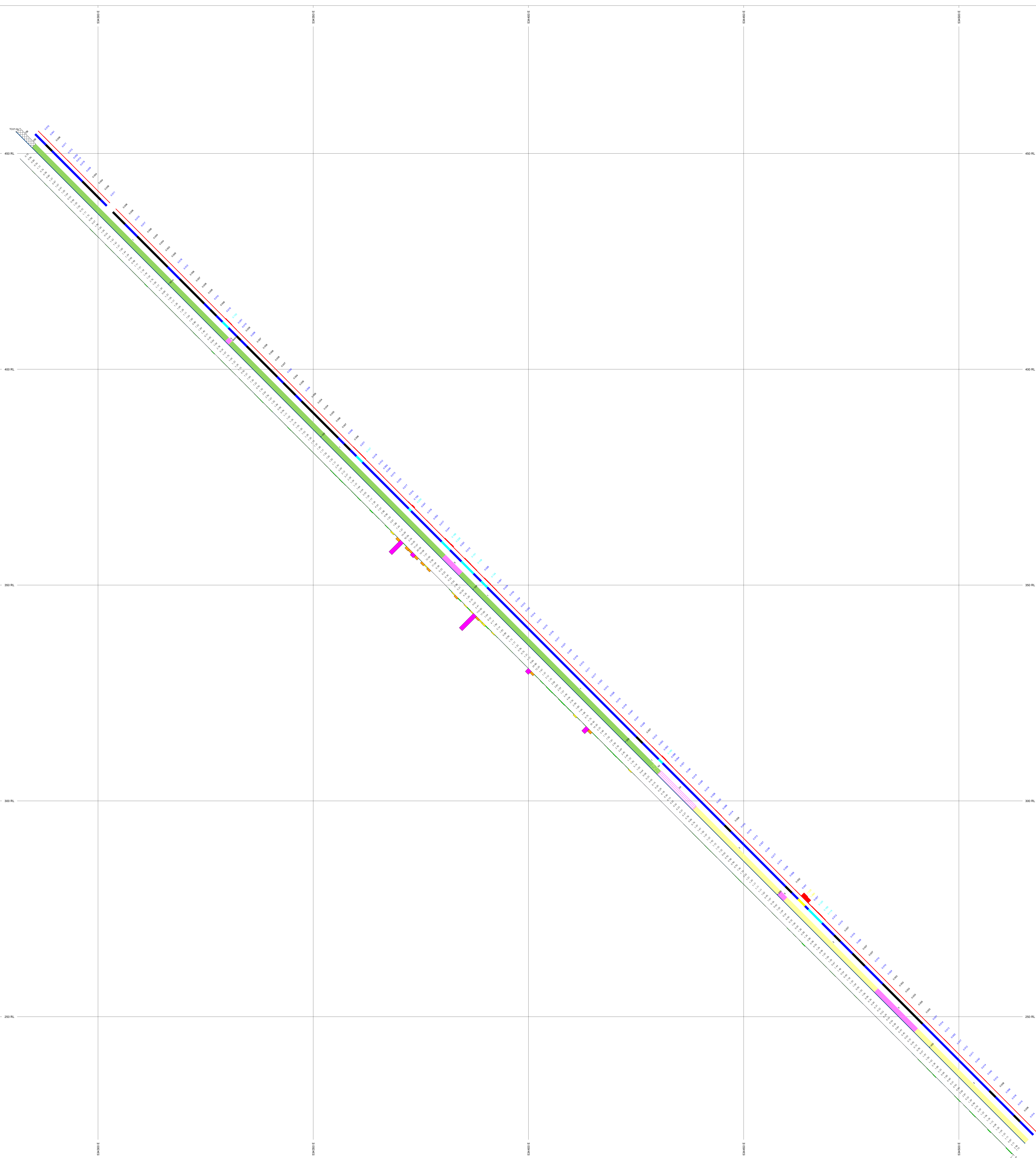
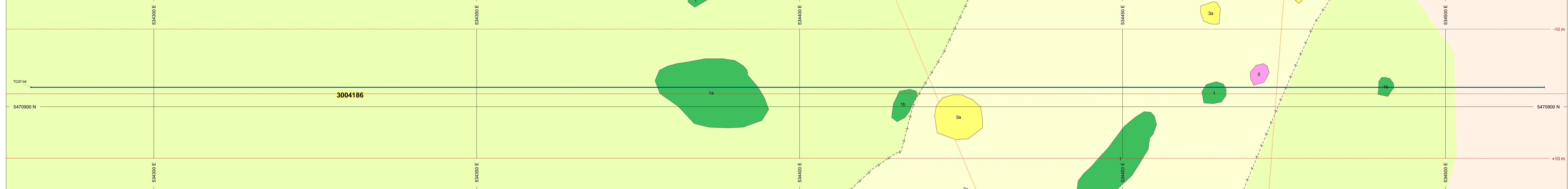
SECTION	LR	CS	RANGE
SECTION	10	10	10
SECTION	10	10	10
SECTION	10	10	10

SECTION	LR	CS	RANGE
SECTION	10	10	10
SECTION	10	10	10
SECTION	10	10	10

SCALE 1:250

TECHNICAL DRAWING

TECK COMINCO LIMITED
Thundercloud
5471015N SECTION
TC07-03



BAR COLORS	LR	CO	RANGE
Autogen_CPT1	1	Red	15
Subsuspicion	1	Blue	0.5

NUMBER BANDS	LR	CO	RANGE
Autogen_CPT1	1	Red	15
	1	Blue	0.5

HOOD COLORS	LR	CO	RANGE	DESCRIPTION
Subgrade	1	Green	0.000	Subgrade
Gravel	2	Yellow	0.000	Gravel
Fragmental mat	3	Orange	0.000	Fragmental mat
Gravel	4	Red	0.000	Gravel
Gravel	5	Blue	0.000	Gravel
Gravel	6	Green	0.000	Gravel
Gravel	7	Yellow	0.000	Gravel
Gravel	8	Orange	0.000	Gravel
Gravel	9	Red	0.000	Gravel
Gravel	10	Blue	0.000	Gravel
Gravel	11	Green	0.000	Gravel
Gravel	12	Yellow	0.000	Gravel
Gravel	13	Orange	0.000	Gravel
Gravel	14	Red	0.000	Gravel
Gravel	15	Blue	0.000	Gravel
Gravel	16	Green	0.000	Gravel
Gravel	17	Yellow	0.000	Gravel
Gravel	18	Orange	0.000	Gravel
Gravel	19	Red	0.000	Gravel
Gravel	20	Blue	0.000	Gravel
Gravel	21	Green	0.000	Gravel
Gravel	22	Yellow	0.000	Gravel
Gravel	23	Orange	0.000	Gravel
Gravel	24	Red	0.000	Gravel
Gravel	25	Blue	0.000	Gravel
Gravel	26	Green	0.000	Gravel
Gravel	27	Yellow	0.000	Gravel
Gravel	28	Orange	0.000	Gravel
Gravel	29	Red	0.000	Gravel
Gravel	30	Blue	0.000	Gravel
Gravel	31	Green	0.000	Gravel
Gravel	32	Yellow	0.000	Gravel
Gravel	33	Orange	0.000	Gravel
Gravel	34	Red	0.000	Gravel
Gravel	35	Blue	0.000	Gravel
Gravel	36	Green	0.000	Gravel
Gravel	37	Yellow	0.000	Gravel
Gravel	38	Orange	0.000	Gravel
Gravel	39	Red	0.000	Gravel
Gravel	40	Blue	0.000	Gravel
Gravel	41	Green	0.000	Gravel
Gravel	42	Yellow	0.000	Gravel
Gravel	43	Orange	0.000	Gravel
Gravel	44	Red	0.000	Gravel
Gravel	45	Blue	0.000	Gravel
Gravel	46	Green	0.000	Gravel
Gravel	47	Yellow	0.000	Gravel
Gravel	48	Orange	0.000	Gravel
Gravel	49	Red	0.000	Gravel
Gravel	50	Blue	0.000	Gravel
Gravel	51	Green	0.000	Gravel
Gravel	52	Yellow	0.000	Gravel
Gravel	53	Orange	0.000	Gravel
Gravel	54	Red	0.000	Gravel
Gravel	55	Blue	0.000	Gravel
Gravel	56	Green	0.000	Gravel
Gravel	57	Yellow	0.000	Gravel
Gravel	58	Orange	0.000	Gravel
Gravel	59	Red	0.000	Gravel
Gravel	60	Blue	0.000	Gravel
Gravel	61	Green	0.000	Gravel
Gravel	62	Yellow	0.000	Gravel
Gravel	63	Orange	0.000	Gravel
Gravel	64	Red	0.000	Gravel
Gravel	65	Blue	0.000	Gravel
Gravel	66	Green	0.000	Gravel
Gravel	67	Yellow	0.000	Gravel
Gravel	68	Orange	0.000	Gravel
Gravel	69	Red	0.000	Gravel
Gravel	70	Blue	0.000	Gravel
Gravel	71	Green	0.000	Gravel
Gravel	72	Yellow	0.000	Gravel
Gravel	73	Orange	0.000	Gravel
Gravel	74	Red	0.000	Gravel
Gravel	75	Blue	0.000	Gravel
Gravel	76	Green	0.000	Gravel
Gravel	77	Yellow	0.000	Gravel
Gravel	78	Orange	0.000	Gravel
Gravel	79	Red	0.000	Gravel
Gravel	80	Blue	0.000	Gravel
Gravel	81	Green	0.000	Gravel
Gravel	82	Yellow	0.000	Gravel
Gravel	83	Orange	0.000	Gravel
Gravel	84	Red	0.000	Gravel
Gravel	85	Blue	0.000	Gravel
Gravel	86	Green	0.000	Gravel
Gravel	87	Yellow	0.000	Gravel
Gravel	88	Orange	0.000	Gravel
Gravel	89	Red	0.000	Gravel
Gravel	90	Blue	0.000	Gravel
Gravel	91	Green	0.000	Gravel
Gravel	92	Yellow	0.000	Gravel
Gravel	93	Orange	0.000	Gravel
Gravel	94	Red	0.000	Gravel
Gravel	95	Blue	0.000	Gravel
Gravel	96	Green	0.000	Gravel
Gravel	97	Yellow	0.000	Gravel
Gravel	98	Orange	0.000	Gravel
Gravel	99	Red	0.000	Gravel
Gravel	100	Blue	0.000	Gravel

VALUES	LR	CO	RANGE
Autogen_CPT1	1	Red	15
	1	Blue	0.5

ADJUST	LR	TEXT
Autogen_CPT1	1	---
Subsuspicion	1	---

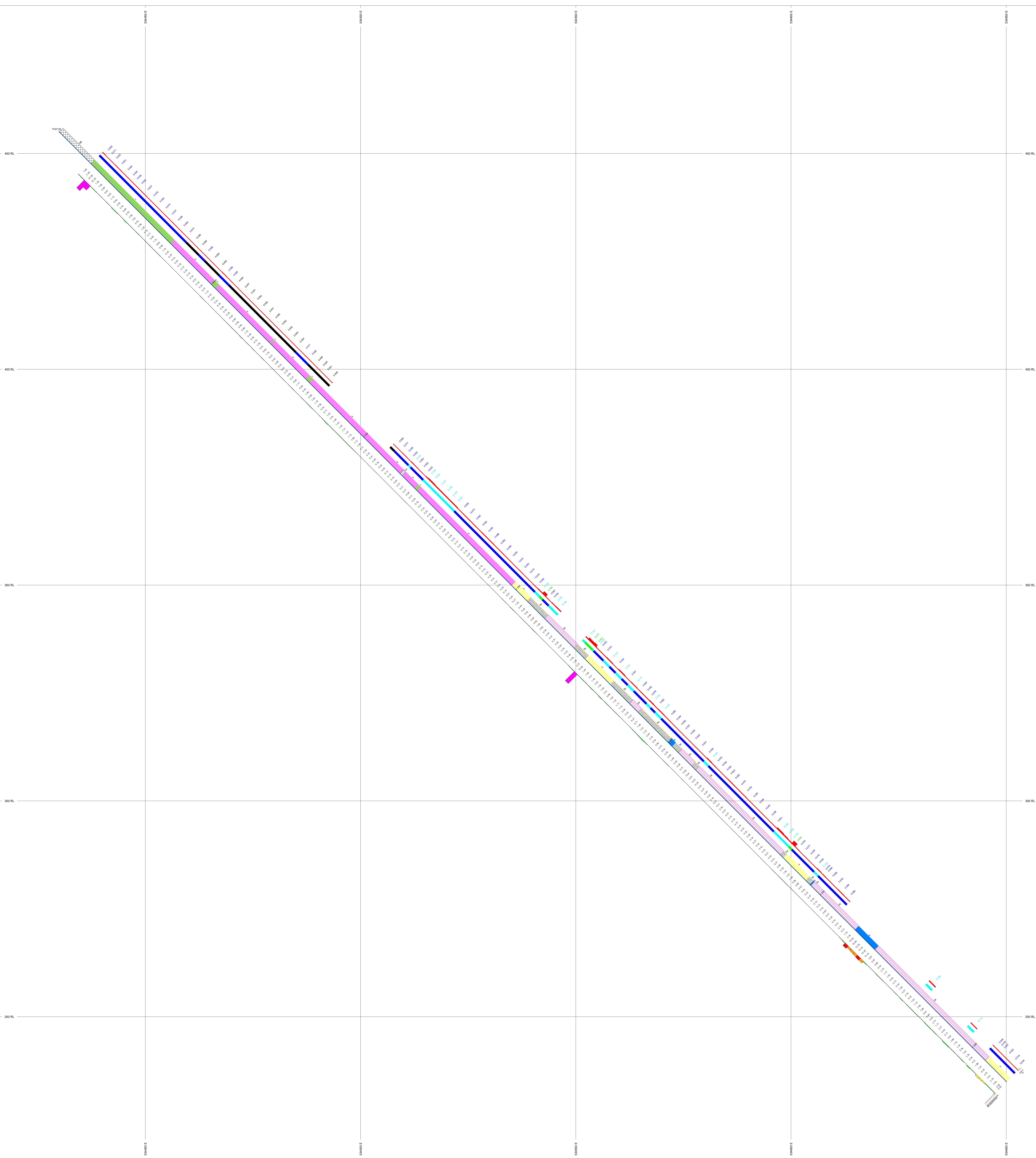
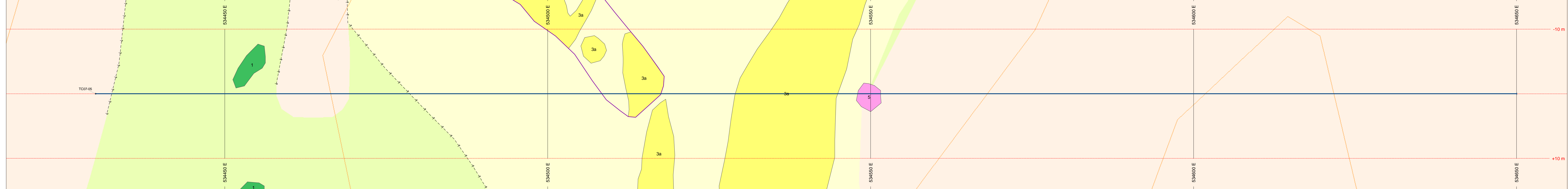
COMMENTS	LR	TEXT
Subgrade	1	---

SECTION SPECS:

SECTION TOP	547000 N
SECTION TOP - 50'	547000 N
SECTION TOP - 100'	547000 N
SECTION TOP - 150'	547000 N
SECTION TOP - 200'	547000 N
SECTION TOP - 250'	547000 N
SECTION TOP - 300'	547000 N
SECTION TOP - 350'	547000 N
SECTION TOP - 400'	547000 N
SECTION TOP - 450'	547000 N

SCALE 1 : 250

Tecoma Limited
Thundercloud
547092N SECTION
TC07-04



BAR GRADING	LR	COL
Align (SP1)	H	Red
Remodeling	L	Blue

NUMBER BANDS	LR	COL	RANGE
Align (SP1)	H	Red	0 - 10
	H	Orange	10 - 20
	H	Yellow	20 - 30
	H	Light Green	30 - 40
	H	Green	40 - 50
	H	Dark Green	50 - 60
	H	Blue	60 - 70
	H	Light Blue	70 - 80
	H	Dark Blue	80 - 90
	H	Black	90 - 100

ROCK CODES	LR	COL	LABEL	DESCRIPTION
UNCODED	H	Green	1	Sub. (unass)
	H	Light Green	2	Gr. Sand
	H	Yellow	3	Sandstone
	H	Orange	4	Conglomerate
	H	Red	5	Gr. Sand
	H	Dark Red	6	Gr. Sand
	H	Black	7	Overburden

VALUES	LR	COL	RANGE
Align (SP1)	H	Red	0 - 10
	H	Orange	10 - 20
	H	Yellow	20 - 30
	H	Light Green	30 - 40
	H	Green	40 - 50
	H	Dark Green	50 - 60
	H	Blue	60 - 70
	H	Light Blue	70 - 80
	H	Dark Blue	80 - 90
	H	Black	90 - 100

ANNOTS	LR	TEXT
Align (SP1)	H	---
Remodeling	L	---

COMMENTS	LR	TEXT
UNCODED	H	---

SECTION SPECS:

GRID TO L/W	5400.0	54000.0
EXTENTS	241.7	507.6
SECTION TOP/NOT	46.3	216.7
TOLERANCE	10.0	

SCALE 1 : 250
 0 5 10 15 20
 M

426671-201

Tecnicomino Limited
 Thundercloud
 5470623N SECTION
 TC07-05