

**Assessment Report**  
**2007 Work Program**  
**Soil Geochemistry, Trenching and Diamond Drilling**

*on the*

**MINNIE MOORE SHOWING**

**BLUEBELL PROPERTY**

**BOUNDARY DISTRICT**

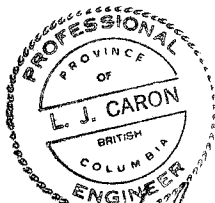
NTS 82E/2

Lat: 49° 08' 15" N      Long: 118° 32' 30" W  
*(at approximate centre of work)*

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British Columbia, Canada

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## 1.0 SUMMARY

This report summarizes the results a program of soil sampling, follow-up excavator trenching and diamond drilling at the Minnie Moore showing, on Kettle River Resources' Bluebell property near Greenwood, which was completed during the fall of 2007.

The Minnie Moore zone is an exciting new epithermal discovery that shares characteristics with epithermal veins from the Republic District of Washington State, including a similar age, an association with Eocene structural activity, and similar textures, gangue and sulfide mineralogy, and geochemistry. It is located on the Minnie Moore crown grant, approximately 1 kilometer northeast of the Emma Mine and is a new discovery in outcrop that, prior to 2007 work program, was untested by any previous exploration. There is minimal rock exposure in the vicinity of the showing, and particularly in the area on-strike to the north.

During the 2007 work program, the Minnie Moore vein was exposed on surface by excavator trenching. It occurs within a zone of faulting, dyking and veining that measures (on surface) up to 15 meters in width. Where exposed by trenching, the vein itself has a true width ranging up to 8.5 meters, and is bounded on the east and west by strong, north-northeast trending, vertical to steeply west-dipping faults. Eocene dykes within the wider fault zone are strongly argillic altered and locally cut by chalcedonic quartz veins. The vein is a well-defined breccia vein comprised of intensely silicified limestone and siltstone that is cut and cemented by vuggy quartz and quartz-carbonate veinlets and breccia matrix. Sulfide content is low, only locally exceeding 5%. Sulfides consist primarily of pyrite, with lesser chalcopyrite, sphalerite, galena, tetrahedrite, and ruby silver. Native gold has been seen in thin section and in hand specimen. Trace element geochemistry shows elevated mercury, arsenic, antimony and selenium. Representative trench samples across the vein have returned values up to 1469 g/t Ag and 3.95 g/t Au over 4.2 meters.

Ten diamond drill holes, totalling 1485 meters, were drilled in the fall of 2007 to test the Minnie Moore vein in the vicinity of the excavator trenches. Diamond drilling showed that the trenched zone is cut-off (offset?) by a 50 meter thick post-mineral sill, at a shallow depth below surface. Drilling tested for the vein beneath the sill, over a strike length of less than 100 meters to the north only from the trenches. Several zones of silicification, quartz-carbonate veining and argillic or advanced argillic alteration were intersected in the drilling, at depth beneath the sill, however analytical results failed to return values of similar silver and gold tenor to those from trenching. Surface vein exposures, trace element geochemistry, and strength and extent of alteration seen in drill core, all suggest that the Minnie Moore vein is part of a large epithermal system. Deeper drilling is required to test for the vein at depth beneath the sill, under the Trench 07-1/3 and Trench 07-2 exposures. Drilling is similarly required to test for the vein to the south of the trenched exposures.

The Minnie Moore soil geochemical survey was successful in delineating several anomalies with similar geochemical signatures and of similar or larger magnitude and extent, to that at the Minnie Moore showing. Excavator trenching and diamond drilling are also recommended to test these geochemical anomalies.

## 2.0 INTRODUCTION

This report summarizes the results a program of soil sampling, follow-up excavator trenching and diamond drilling at the Minnie Moore showing, on Kettle River Resources' Bluebell property near Greenwood. Results of the first phase 2007 work program at the Minnie Moore showing are described in an earlier report by the author (Caron, 2007). Much of this background information contained in this report is taken verbatim from this earlier report.

### 2.1 Bluebell Property: Location, Access and Description

The Bluebell property is centred about 13 kilometers northwest of Grand Forks, on NTS 082E/2 as shown on Figure 1. Kettle River's Phoenix property adjoins the Bluebell property to the south, while the company's Niagara property adjoins the claims to the east.

The Bluebell property covers most of the historic Summit Mining Camp, including the past-producing Oro Denoro, Emma and B.C. mines, as well as numerous other mineral occurrences. It covers an area of approximately 2290 hectares on Mineral Titles map sheets 082E.007 and 082E.017 and is comprised of 20 crown granted mineral claims (to which the company holds under-surface rights only), two 4-post mineral claims and seven MTO cell claims. The property is 100% owned by Kettle River Resources, with no underlying agreements or royalties. The claims and crown grants are shown on Figure 2, and summarized below in Tables 1 and 2.

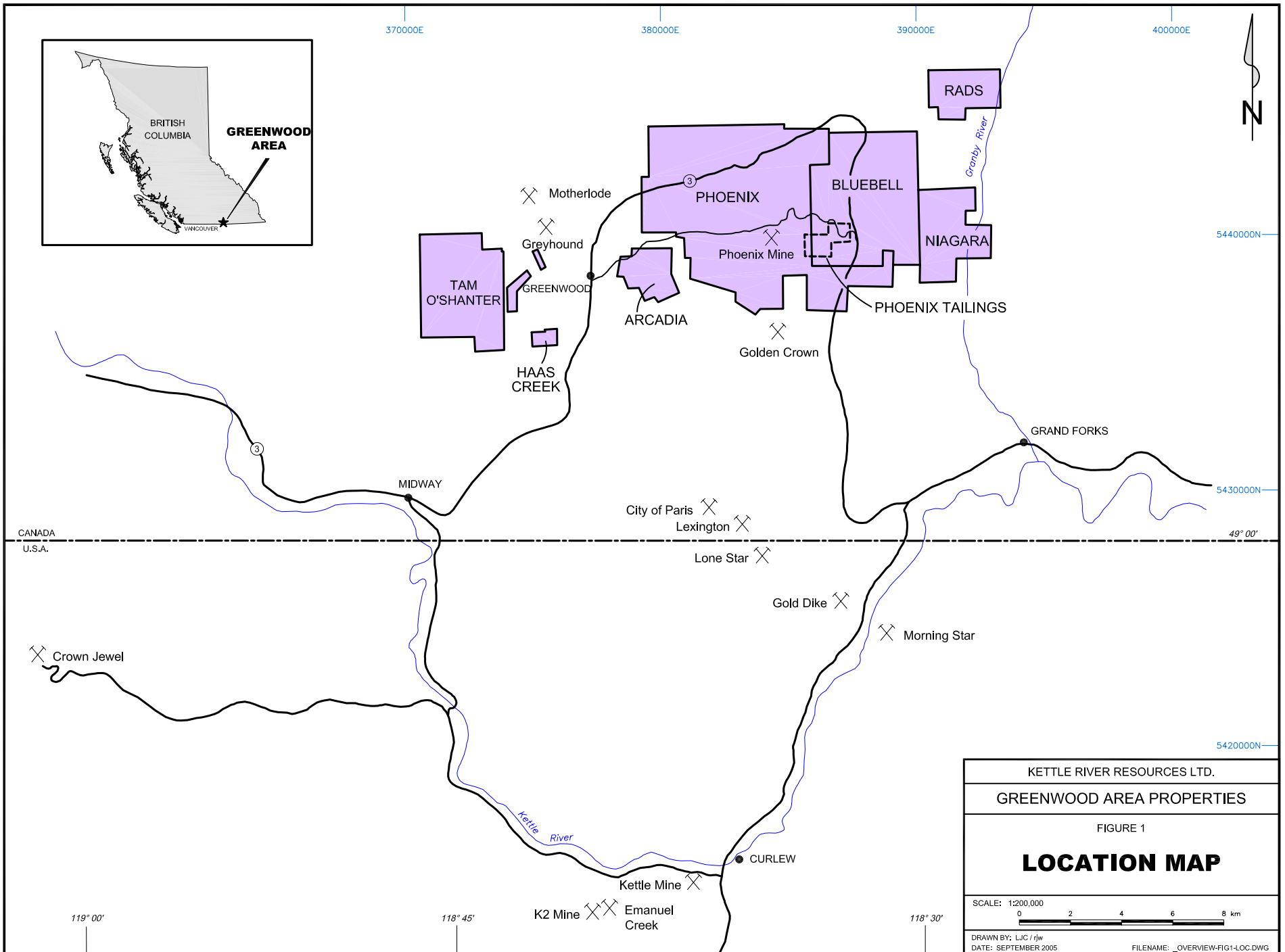
Lot #	Crown Grant Name	Lot #	Crown Grant Name
L. 464s	B.C. Fraction No.2	L. 949	Novelty Fraction
L. 465s	London No. 2 Fraction	L. 950	Vashti
L. 591	Emma	L. 986	Norton Fraction
L. 592	Jumbo	L. 1409	May
L. 593	Minnie Moore	L. 1506	R. Bell
L. 625	Cordick	L. 1553	Mountain View
L. 692	Oro Denoro	L. 1568	Mary B.
L. 794	Mountain Rose	L. 1691	Erwin
L. 863	Duplicate	L. 2136	Bluebell
L. 882	B.C.	L. 2114	Matabelle

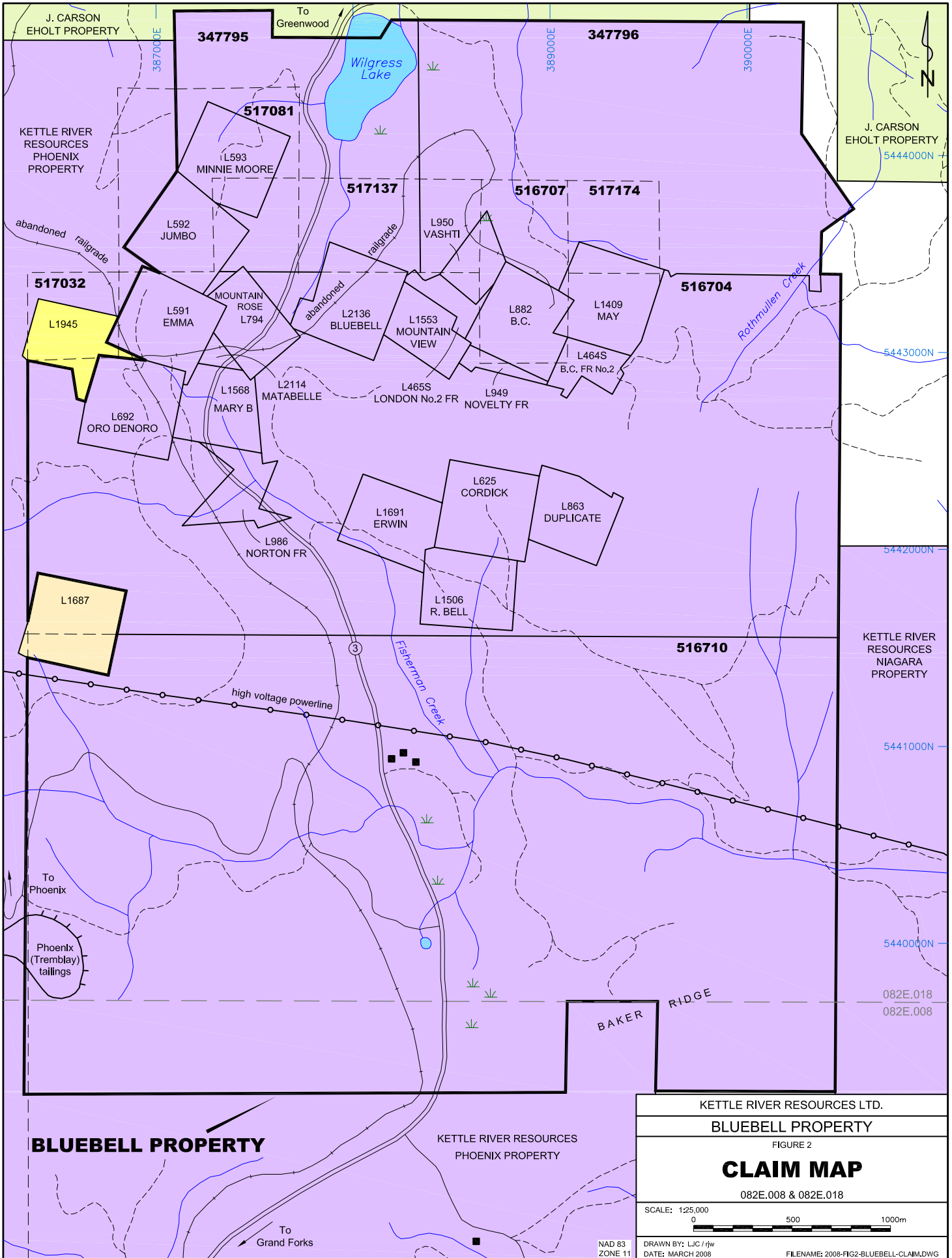
**Table 1 - Bluebell Property Crown Grants**

Tenure #	AREA (Ha)	EXPIRY DATE*
347795	225.0	2014/Dec/30
347796	375.0	2014/Dec/30
516704	739.87	2014/Dec/30
516707	42.27	2014/Dec/30
516710	930.46	2014/Dec/30
517032	21.14	2014/Dec/30
517081	63.40	2014/Dec/30
517137	42.27	2014/Dec/30
517174	21.14	2014/Dec/30

\* expiry dates listed are after filing this report

**Table 2 - Bluebell Property Claim Information**



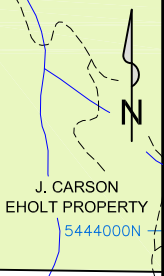


**BLUEBELL PROPERTY**

KETTLE RIVER RESOURCES PHOENIX PROPERTY

KETTLE RIVER RESOURCES LTD.	
BLUEBELL PROPERTY	
FIGURE 2	
<b>CLAIM MAP</b>	
082E.008 & 082E.018	
SCALE: 1:25,000	0 500 1000m
DRAWN BY: LJC / rjw	
DATE: MARCH 2008	
FILENAME: 2008-FIG2-BLUEBELL-CLAIM.DWG	

NAD 83  
ZONE 11



J. CARSON  
EHOLT PROPERTY  
5444000N

KETTLE RIVER  
RESOURCES  
NIAGARA  
PROPERTY

5441000N

5440000N

082E.018  
082E.008

347795

347796

517081

517137

516707

517174

517032

516704

516710

L1945

L591  
EMMA

MOUNTAIN  
ROSE  
L794

L2136  
BLUEBELL

L1553  
MOUNTAIN  
VIEW

L882  
B.C.

L1409  
MAY

L464S  
B.C. FR No.2

L692  
ORO DENORO

L1568  
MARY B

L2114  
MATABELLE

L465S  
LONDON No.2 FR

L949  
NOVELTY FR

L1691  
ERWIN

L625  
CORDICK

L863  
DUPLICATE

L1506  
R. BELL

L986  
NORTON FR

L1687

high voltage powerline

Fisherman Creek

Rothmullen Creek

BAKER  
RIDGE

To  
Phoenix

Phoenix  
(Tremblay)  
tailings

To  
Grand Forks

To  
Greenwood

387000E

389000E

390000E

5443000N

5442000N

5441000N

5440000N

There is excellent road access to the property. Highway 3 passes through the claim block from north to south and the Phoenix road provides good access to the southwestern part of the property. A high tension powerline crosses the southern part of the property, in a generally east-west direction. Numerous powerline access roads and other secondary logging and mining exploration roads (including abandoned rail grades to the Oro Denoro, Emma and B.C. mines) provide further road access to the claims. The Thimble Mountain Trail, a moderately popular recreational trail for hikers and mountain bikers, passes through the central portion of the property. One of the access points to the trail is at the B.C. Mine site while a second access point is approximately half a kilometer west of the R. Bell mine.

The majority of the Bluebell property is underlain by crown land, but areas with privately owned surface title do occur in the southern part of the claim block, adjoining Highway 3, and in the Wilgress Lake area. Kettle River Resources owns the surface land covering the Tremblay tailings and surrounding area, in the southeastern part of the Bluebell property. A long-term core storage area has been established on the company's privately owned land in this area.

## **2.2 *Climate, Local Resources, Infrastructure & Physiography***

As described above, access to the property is excellent. Local infrastructure is also very good. Highway 3 (the Southern Trans Provincial Highway) passes through the region, as do several major high-voltage powerlines and the Southern Crossing natural gas pipeline.

Limited services, including room, board and fuel, are available in the Greenwood (population < 1000). Grand Forks, located 40 kilometers east along Highway 3 from Greenwood, has a population of about 8,000 in the city and immediate surrounding area and is a more major supply centre. Most services needed for exploration are available in Grand Forks. The closest full-service airports are located in Kelowna, Penticton or Castlegar.

The topography of the area is generally moderate. On the Bluebell property, elevations range from about 1000 meters in the July Creek valley to about 1250 meters at the height of land north of Fisherman Creek.

Vegetation consists of moderate to open second growth mixed fir, pine and larch forest, with little undergrowth. Wetter areas on north slopes and in creek draws commonly have thick cedar forest. Portions of the region have been logged.

The climate is moderately dry, with hot summers and little rainfall. Snowfall is typically in the order of 1-2 meters. South slopes and areas at lower elevations are generally snow-free from early April to mid November, while the higher elevations are generally not free of snow until early May.

### 3.0 HISTORY

#### 3.1 History of Exploration: Bluebell Property

The Bluebell property has a long history of exploration and mining, dating back to the mid-1890's when mineralization was discovered at the Emma, R. Bell, B.C., and Oro Denoro. Crown grants covering these and other showings, were issued in the late 1890's and early 1900's and considerable exploration and development work was done on many of the claims, and particularly at the Oro Denoro, Emma and B.C. mines, over the next 25 to 30 years. Thirteen Minfile showings (including 6 past-producing mines) occur on the Bluebell property, as shown on Figure 3. Production data from the property (compiled from Minfile) is tabulated below in Table 3.

	Tonnes Mined	Au (gm)	Ag (gm)	Cu (kg)
<b>Emma<sup>1</sup></b>				
1901	590			
1902	7,662	5,972	113,744	67,088
1903	17,744	8,678	232,930	89,833
1904	37,077	26,749	331,713	180,184
1905	9,700	8,677	111,442	62,366
1906	14,107	10,730	129,637	133,152
1907	19,916	15,925	126,558	211,907
1908	477			954
1910	442			870
1911	10,387	10,295	72,688	94,384
1912	6,741	4,261	30,325	62,194
1916	14,405	13,001	129,606	155,303
1917	30,822	36,422	308,635	427,551
1918	18,700	23,918	232,588	267,848
1919	19,298	16,298	227,114	214,879
1920	16,393	14,059	205,840	185,189
1921	17,055	16,827	178,687	196,180
1927	22	31	373	466
<b>Total:</b>	<b>241,538 tonnes @</b>	<b>0.9 g/t Au</b>	<b>10.1 g/t Ag</b>	<b>1.0% Cu</b>
<b>Oro Denoro</b>				
1903	10,229	10,513	70,137	102,293
1904	15,799	21,274	144,847	240,371
1905	2,593	4,292	34,462	37,897
1906	8,146	12,192	93,340	116,473
1907	12,992	13,934	136,760	186,052
1908	52,807	41,305	335,757	770,824
1909	10,357	5,941	55,674	129,817
1910	10,407	6,656	77,633	102,991
1916	232	156	2,426	2,409
1917	220	187	2,333	1,490
<b>Total:</b>	<b>123,782 tonnes @</b>	<b>0.9 g/t Au</b>	<b>7.7 g/t Ag</b>	<b>1.4% Cu</b>

1. 1905-1910 includes some production from the Mountain Rose

**Table 3 - Bluebell Property Production Records**

cont ...

	Tonnes Mined	Au (gm)	Ag (gm)	Cu (kg)
<b>B.C. Mine</b>				
1900	17,428	9,362	2,126,574	1,327,971
1901	42,471	20,715	2,905,673	1,646,419
1902	13,154		653,163	453,590
1903	16,119		805,817	544,366
1906	1,350	404	43,886	31,031
1907	1,529	529	48,738	29,265
1916	201	31	7,838	5,094
1917	612	31	20,963	16,195
1918	781		42,891	33,061
1919	109		6,221	4,536
1938	120	93	2,830	2,443
<b>Total:</b>	<b>93,874 tonnes @</b>	<b>0.3 g/t Au</b>	<b>71.0 g/t Ag</b>	<b>4.4% Cu</b>
<b>Bluebell</b>				
1938	23		933	422
1939	330	8,055	2,862	
<b>Total:</b>	<b>353 tonnes @</b>	<b>22.8 g/t Au</b>	<b>10.75 g/t Ag</b>	<b>0.1% Cu</b>
<b>R. Bell</b>				
1901	267		110,696	20,832
1918	20		2,053	450
<b>Total:</b>	<b>287 tonnes @</b>		<b>392.9 g/t Ag</b>	<b>7.4% Cu</b>
<b>Cyclops</b>				
1952	259			
<b>Total:</b>	<b>259 tonnes @</b>	<b>5.9% Zn</b>		

Table 3 - Bluebell Property Production Records, cont...

The early history of the property is summarized below, largely from descriptions in the Minfile occurrences and in the Minister of Mines Annual Reports. Additional details are available, particularly in the Minister of Mines Annual Reports, although they add little to an overall assessment of the property. More recent exploration work on the property is described in somewhat more detail, with specific references identified.

1894-99 Mineralization was discovered at the Emma, during railroad construction in 1894, and over the next few years crown grants were issued over most of the main showings in the Summit Camp. Considerable development work was done at the mines during this period and railroads were constructed to the Oro Denoro, Emma, B.C. and Bluebell mines.

1900-20 The period from 1900 - 1920 marked the height of mining activity in the Summit Camp, with the B.C., Emma and Oro Denoro mines all in full operation. A small amount of production is also noted from the Mountain Rose and R. Bell mines during this period.

For much of this time the B.C., Emma and Oro Denoro mines were all operated by the B.C. Copper Company, with ore shipped to the company's smelter in Greenwood for processing. Ore from the Emma was very low grade but was valuable because of its iron content and suitability as a flux in the smelter. A fire underground disrupted production from the Emma mine in 1912, but by 1916 the workings had been restored and production continued. In the latter years, the Consolidated Mining and Smelting Company operated the Emma mine.

- 1938-39 A small amount of production is reported from the Bluebell Mine.
- 1950-53 Silver Chief Mines carried out work on the Cyclops in 1950 and 1952. Work in 1950 including 488 meters of diamond drilling, then in 1952, an adit was driven about 40 meters and a short raise was completed to connect to the bottom of an old shaft. A shipment of 259 tonnes, at a grade of 5.9% Zn, was mined and processed in the Providence mill in Greenwood.
- A series of percussion and diamond drill holes are reported to have been drilled north of the B.C. Mine (between 1953 and 1965) but details as to hole locations and results are uncertain. Considerable drilling is also reported east of the Emma Mine in this same time period (Hitchens, 1991).
- 1955-56 Noranda Mines Ltd. completed a program of geological mapping, geophysics and drilling. 17 holes (including 2 underground holes) were drilled at the Oro Denoro, 2 were drilled at the Swallow and 2 at the R. Bell (Weymark, 1966).
- 1957 Carswell (1957) completed a M.Sc. thesis entitled “The Geology and Ore Deposits of the Summit Camp, Boundary District, British Columbia” and examined, sampled and described many of the showings on the current Bluebell property.
- 1963-70 West Coast Resources Ltd. optioned the Oro Denoro and did ground magnetics, mapping, and drilled 29 surface and 17 underground holes. Kermeen (1966) examined the property on behalf of Granby and concluded that drilling to date had identified a resource of 274,000 tonnes grading 1.3% Cu, which he felt could be mined at a modest profit.
- West Coast Resources had Weymark Engineering conduct a feasibility study of the deposit, based on the results of the drilling. Indicated reserves for the Oro Denoro were quoted 42.5 million tonnes @ 0.93% Cu, 0.8 g/t Au, and 11.0 g/t Ag (Weymark, 1966). **THIS ESTIMATES DOES NOT CONFORM TO 43-101 STANDARDS.** Furthermore, in 1983, a re-examination of drill core on which these results were based was completed. Regarding this re-examination of drill core, Rayner (1995) stated that:
- “the observed core intersections in the box visually could not possibly have produced results as high as the quoted assay values shown in the log”.*
- Subsequent work by Dolmage Campbell and Associates further discredited the Weymark estimate, as described below. **THE ESTIMATE SHOULD BE REGARDED WITH THIS IN MIND.**
- Furukawa Mining Co. Ltd. optioned the Oro Denoro from West Coast Resources and drilled an additional 42 vertical diamond drill holes to test the deposit. West Coast Resources Ltd then completed 120 meters of drifting at the Oro Denoro and commissioned a feasibility study by Dolmage, Campbell and Assoc. (1968), which stated that:
- “In the first place, no applied geology was used in interpreting the results of the drilling and assaying, and secondly, no sensible method of calculation was made, all of the data was simply fed to a computer. Since the orientation and concentrations of drill holes (and assays) were without sensible relation to the geometry of the ore bodies involved, the computerization was not effective or suitable ... Had some simple geological mapping and interpretation been done early in the 1964-66 drill program not as much drilling would have been necessary, the Furukawa program would not have been conducted in the manner it was and the expense of computerization would have been avoided.”*



A drill indicated resource of 650,000 tonnes grading 0.85% Cu was identified by Dolmage, Campbell, however this still relied on assay data from drilling which Rayner (1995) has subsequently discredited. **THIS ESTIMATE DOES NOT CONFORM TO 43-101 STANDARDS AND SHOULD BE TREATED WITH CAUTION.**

- 1966-69 A limited ground mag survey was done over the R. Bell and Cordick crown grants, by Bornite Mines Ltd. (Sullivan, 1966).
- King Resources held the Rockland crown grant (now part of the Bluebell property) west of the Oro Denoro as part of the Stan-Rockland property. IP and mag surveys plus geological mapping, rock and soil sampling was completed.
- Giant Explorations Limited did trenching, magnetometer and soil surveys at the Cyclops showing.
- West Coast Resources completed an IP survey and did minor diamond drilling in the vicinity of the Emma during 1968 and 1969 (Finney, 1968a,b).
- Granby completed an IP survey on the Pac claims, southeast of the R. Bell in 1966, and then drilled 9 diamond drill holes in 1968 to test IP anomalies (Paxton, 1966; Caron, 1996a).
- 1970-71 Reinsbakken (1970) completed geological mapping of the current Bluebell property, as part of a M.Sc. thesis entitled "Detailed Geological Mapping and Interpretation of the Grand Forks - Eholt Area, Boundary District, British Columbia"
- Bayland Mines optioned the Tokyo claims (from Herman Hoehn) and carried out a small IP survey. A drill hole was reported to have returned 13.7 g/t Ag and 0.87% Cu over 7.6 meters (Minfile 082ESE257).
- Jason Explorations did soil sampling, IP and hammer seismic on the Stan-Rockland property.
- Granby completed a soil geochem survey (Cu and Zn only) in the Pac area, and drilled a further 4 diamond and 7 percussion holes in this area.
- 1974-76 Granby Mining Corp optioned the Oro Denoro and completed mapping, ground geophysics, trenching and a percussion drill program. Test mining was done from an open pit at Oro Denoro and 123,400 tonnes of "mineralized rock" was taken to the Phoenix mill before the mining operation was abandoned.
- Granby also drilled 15 short diamond drill holes west and south of the B.C. Mine. Intercepts of 2.74% Cu over 2.5 meters and 0.47% Cu over 5.5 meters were reported (Hitchens, 1991).
- 1979 New Frontier Petroleum optioned the Oro Denoro claims and completed a small amount of surface work and sampling of old workings.
- 1981-82 Kettle River Resources optioned the B.C. Mine and a number of adjacent claims. The old B.C. mine workings were dewatered to the 200-foot level. Geophysical and geochemical

surveys were completed and a small amount of trenching was done.

1982-84 Kettle River merged their B.C. Mine claims with New Frontier's Oro Denoro claims to form the Bluebell joint venture (51% Kettle River, 49% New Frontier). A program of geological mapping, rock and soil geochemistry and geophysics (mag, VLF-EM, SP) was completed in 1983, which resulted in a new massive sulfide (pyrrhotite, pyrite, sphalerite) discovery east of the B.C. Mine near Rathmullen Creek. Trenching and very limited drilling was done to test the discovery. Limited trenching was also done on the Mountain View and Bluebell targets (Kyba and Daughtry, 1984).

In 1984, New Frontier's interest in the joint venture was transferred to Bulkley Silver (51% Kettle River, 49% Bulkley Silver), and then in 1987 to Houston Metals Corp and Petro Mac Energy Inc.

1984-85 Noranda Exploration Company Limited held the Thim Group in the southeastern part of the current Bluebell property, in joint venture with Kettle River Resources (as part of a much larger land package including most of the current Phoenix property). Noranda completed a Dighem III airborne mag/EM survey over the claims. Two airborne EM anomalies were identified on the lower west facing slope of Thimble Mountain. Ground mag and Max Min EM survey was completed over the airborne anomalies, and three EM conductors were delineated. Two backhoe trenches and 8 test pits were dug in November 1985, to test the EM conductors. Trenching uncovered a dark grey to black siliceous pyritic breccia (the Thim breccia) (Keating and Mitchell, 1985).

1987 The Bluebell joint venture (Kettle River/Houston Metals Corp and Petro Mac Energy Inc.) granted an option to Skylark Resources Ltd. to earn a 51% interest in the property. Skylark completed soil and ground magnetometer surveys over a small grid on the Emma and Jumbo crown grants, and then drilled 6 NQ diamond drill holes (totalling 873 meters) to test anomalies on-strike of known mineralized zones. Skylark dropped their option on the property in March of 1988 (Burns, 1988).

1987 Imasco obtained a 6 month License of Occupation (issued by the Ministry of Forests and Lands under regulations then in effect) to drill test the Eholt limestone showing. There is no documentation that any work was completed on the showing.

1989 Polestar Exploration Inc. undertook a geostatistical study of the Oro Denoro deposit. Polestar's main interest in the Oro Denoro was for the garnet resource. Polestar felt that the economics of a garnet operation would require an open pit scenario where copper could be recovered at a profit to offset the cost of separating and cleaning a garnet concentrate. They concluded that such an operation was not viable (Giroux, 1989).

1990-91 In December 1990, Kettle River purchased all of Petro Mac Energy's interest in the Bluebell property, to hold 100% of the property. Battle Mountain (Canada) Inc. (who then held the Phoenix property under option from Kettle River) then completed a review of data on the property. Further work was recommended on 23 different targets (Kyba, 1990), but the claims were subsequently optioned to Canamax Resources.

Canamax completed a program of airborne geophysics, followed by a drill program in January and February 1991 to test airborne geophysical anomalies. Six diamond drill holes totalling 970 meters were drilled. Three of the drill holes tested airborne mag high

- anomalies (north and south of Wilgress Lake) for the possibility of magnetite rich skarn mineralization, without success. Two holes were drilled north of the B.C. Mine to test the on-strike continuation of mineralization and one hole was drilled just north of the Bluebell showing to test for mineralization along the limestone/volcanic contact. A program of geological mapping, rock and soil sampling was then done in the summer of 1991 (Johnson, 1991; Hitchens, 1991). Canamax dropped their option on the property late in 1991.
- 1992 Crownex Resources Ltd. completed a small geochemical and geophysical program at the Tokyo showing, for Herman Hoehn. A rock sample was reported to have assayed 25.4 g/t Ag, 1.07 g/t Au and 1.0% Cu (Minfile 082ESE257).
- 1995-96 Kettle River Resources Ltd. completed a review of previous work on the Bluebell property, followed by geological mapping, soil and rock sampling programs over select targets (Rayner, 1995; Kyba 1996a,b; Caron 1996b). A new discovery was made in outcrop (high grade gold in silicified limestone), in follow-up to anomalous gold in soils near the old R. Bell mine workings. Several blast trenches were done on the newly discovered "Summit vein", followed by a 14 hole (1080 meter) diamond drill program (Caron, 1997). During this period, additional claims were staked to cover open ground, including the former Rockland crown grant and the Tokyo showing.
- 1997 Echo Bay Minerals Co. optioned the Bluebell property from Kettle River Resources (as part of a larger land package) and completed a 23 hole (1476 meter) diamond drill program to test the R. Bell, Bluebell and North Emma (Emma epithermal) showings (Rasmussen, 1997). Echo Bay dropped their option on the property late in 1997.
- 2004 Kettle River Resources completed a GPS survey of (former) located claims comprising the Bluebell property (Macdonald and Klassen, 2004).
- 2005 Kettle River Resources staked MTO cell claims to cover all of the crown grants within the Bluebell property, and converted most of the legacy mineral claims to MTO cell claims.
- 2006 Kettle River Resources completed a program of prospecting and rock sampling on the Phoenix and Bluebell properties to explore for epithermal-style mineralization (Caron, 2006).
- 2007 Kettle River Resources completed a program of prospecting, soil and rock sampling, ground geophysics and excavator trenching on the Bluebell and Phoenix properties, as summarized by Caron (2007). This work resulted in the discovery of the Minnie Moore showing, on the Bluebell property. Follow-up work (soil sampling, additional excavator trenching and diamond drilling) at the Minnie Moore showing in the fall of 2007 is described in this report.

### **3.2 Summary of Work Program**

The 2007 work program was a two-part program. The first phase of work is described in an earlier assessment report by the author (Caron, 2007). Work described in this report is specific to the Minnie Moore showing, and consists of soil geochemistry, follow-up trench sampling, and diamond drilling (including costs associated with establishing a long-term core storage area on the property). The work

program described in this report was completed from September 10 – November 22, 2007, under the supervision of Linda Caron. It should be noted that costs associated with establishing the Minnie Moore grid were included in the earlier assessment report, while costs associated with collecting and analysing soil samples are included with this report. Similarly, costs associated with digging and mapping the follow-up excavator trenches were filed previously. This report covers costs related to collecting and analysing follow-up trench samples.

A total of 141 man days were spent on the work program. Details of the program are listed below.

**Soil Sampling**

Minnie Moore Grid:      Number of Samples:      991  
   Collected by:              Terry Pidwerbeski, Alfi Elden, Lindsay Guza  
   Dates:                              September 10 – October 11, 2007 (intermittently)  
   Submitted to:                  Acme Analytical Laboratories, Vancouver  
   Analysis:                        Group 1DX, Au, multi-element ICP suite

**Trenching Sampling**

Dates:                              October 9-11, 2007  
Trench Sampling:              Alfi Elden, Lindsay Guza  
Trench Samples:                46  
Submitted to:                    Acme Analytical Labs, Vancouver  
Analysis:                        Group 1DX, Group 3B Au, multi-element ICP suite

**Diamond Drilling**

Dates:                              October 26 – November 12, 2007 (Drilling)  
   October 26 – November 22, 2007 (Logging and Sampling)  
Number of Holes:                10  
Total Meters:                    1485  
Number of Samples:            380  
Submitted to:                    Acme Analytical Labs, Vancouver  
Analysis:                        Group 1F, Au, multi-element ICP suite  
Core Logging:                    Linda Caron  
Core Sampling:                  Terry Pidwerbeski  
Drill Contractor:                More Core Drilling Services Ltd., Stewart, B.C.

**Petrographic Work**

Samples:                        17 samples, from Minnie Moore drill core  
Submitted to:                    Vancouver Petrographics Ltd., Langley, B.C.  
For:                                Polished thin section preparation and examination

## 4.0 GEOLOGY

### 4.1 Regional Geology

The Bluebell property is situated within the Boundary District, a highly mineralized district that straddles the Canada-USA border and includes the Republic, Belcher, Rossland and Greenwood Mining Camps. The district has total gold production exceeding 7.5 million ounces, the majority of which has been from the Republic and Rossland Camps (Schroeter et al, 1989; Höy and Dunne, 2001; Lasmanis, 1996). At Republic, about 2.5 million ounces of gold, at an average grade of more than 17 g/t Au, has been produced from epithermal veins (Lasmanis, 1996). In the Rossland Camp, 2.8 million ounces of gold at an average grade of 16 g/t Au was mined from massive pyrrhotite-pyrite-chalcocopyrite veins (Höy and Dunne, 2001). Recent exploration in the Boundary District resulted in the discovery of a number of new deposits, from which more than 1 million ounces of gold has been produced to date.

Portions of the Boundary District have been mapped on a regional basis by numerous people, including Höy and Dunne (1997), Fyles (1984, 1990), Massey (2006, 2007), Massey and Duff (2008), Monger (1967), Little (1957, 1961, 1983), Höy and Jackaman (2005), Church (1986), Parker and Calkins (1964), Muessig (1967) and Cheney and Rasmussen (1996). The reader is referred to these sources for a more in-depth discussion of the regional geology.

The Boundary District is situated within Quesnellia, a terrane which accreted to North America during the mid-Jurassic. Proterozoic to Paleozoic North American basement rocks are exposed in the Kettle and Okanogan metamorphic core complexes. These core complexes were uplifted during the Eocene, and are separated from the younger overlying rocks by low-angle normal (detachment) faults. The distribution of these younger rocks is largely controlled by a series of faults, including thrust faults (related to the accretionary event), and Tertiary extensional and detachment faults.

The oldest of the accreted rocks in the Greenwood-Grand Forks area are late Paleozoic volcanics and sediments. These rocks are separated into the Knob Hill Complex and overlying Attwood Formation. Rocks of the Knob Hill Complex are of dominantly volcanic affinity, and consist mainly of chert, greenstone and related intrusives, and serpentinite. The serpentinite bodies of the Knob Hill Complex represent part of a disrupted ophiolite suite which have since been structurally emplaced along Jurassic(?) thrust faults. Commonly, these serpentinite bodies have undergone Fe-carbonate alteration to listwanite, as a result of the thrusting event. Serpentinite is also commonly remobilised along later structures. Locally, sediments and volcanics (largely argillite, siltstone, limestone and andesite) of the late Paleozoic Attwood Formation unconformably overlie the Knob Hill Complex.

The Paleozoic rocks are unconformably overlain by the Triassic Brooklyn Formation, represented largely by limestone, clastic sediments and pyroclastics. Both the skarn deposits and the gold-bearing volcanogenic magnetite-sulfide deposits in the district are hosted within these Triassic rocks. The newly discovered Minnie Moore showing, described in this report, is an Eocene-aged epithermal silver-gold vein system which is also hosted within rocks of the Triassic Brooklyn Formation. In the eastern part of the Boundary District, Jurassic sediments and volcanics of the Rossland Group are widespread. In the Greenwood area, volcanic rocks that overlie the limestone and clastic sediments of the Brooklyn Formation and may be part of the Brooklyn Formation, or they too may belong to the younger Rossland Group.

At least four separate intrusive events are known regionally to cut the above sequence, including the Jurassic-aged alkalic intrusives (i.e. Lexington porphyry, Rossland monzonite, Sappho alkalic complex), Triassic microdiorite related to the Brooklyn greenstones, Cretaceous-Jurassic Nelson intrusives, and Eocene Coryell (and Scatter Creek) dykes and stocks.

In the Greenwood area, Fyles (1990) has shown that the pre-Tertiary rocks form a series of thrust slices, which lie above a basement high-grade metamorphic complex. There is a strong spatial association between the thrust faults and gold mineralization in the Greenwood area. A total of at least five thrust slices are recognized, all dipping gently to the north, and marked in many places by bodies of serpentine. Massey (2006) has speculated a possible additional thrust fault along the Eholt Creek valley.

Eocene sediments and volcanics unconformably overlie the older rocks. The oldest of the Tertiary rocks are conglomerate and arkosic and tuffaceous sediments of the Eocene Kettle River Formation. These sediments are overlain by andesitic to trachytic lavas of the Eocene Marron Formation, and locally by rhyolite flows and tuffs (such as in the Franklin Camp north of Grand Forks). The Marron volcanics are in turn unconformably overlain by lahars and volcanics of the Oligocene Klondike Mountain Formation. The Klondike Mountain sediments are much less widespread in the Greenwood area than they are to the south in Washington State. Three main Tertiary fault sets are recognized, an early, gently east-dipping set, a second set of low angle west-dipping, listric normal (detachment-type) faults, and a late, steeply dipping, north to northeast-trending set of right or left lateral or west side down normal faults (Fyles, 1990). Epithermal gold mineralization, related to Eocene structural activity, has been an important source of gold in the Boundary District.

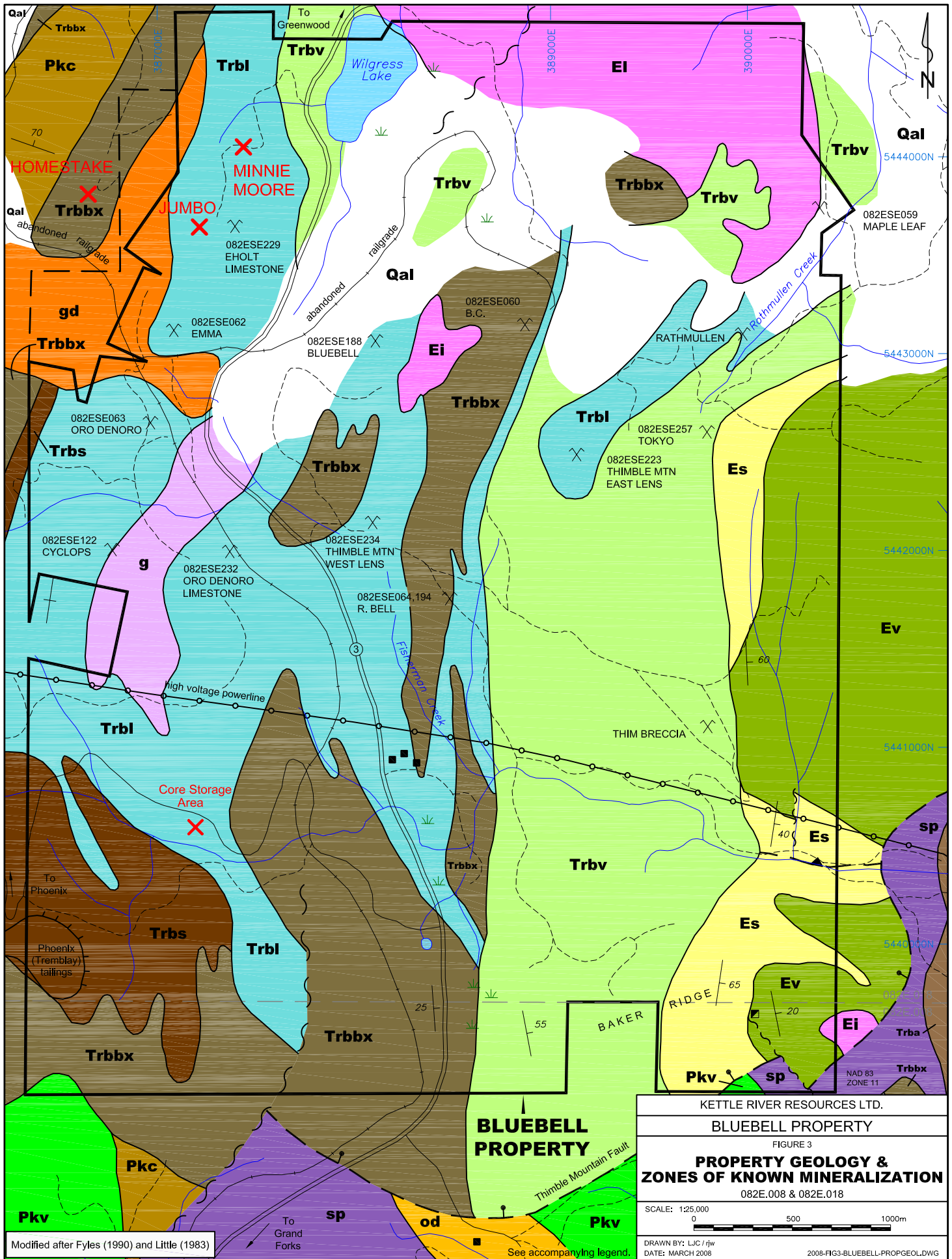
The Tertiary rocks are preserved in the upper plates of low-angle listric normal (detachment-type) faults related to the uplifted metamorphic core complexes, in a series of local, fault-bounded grabens (i.e. Republic graben, Toroda graben) (Cheney and Rasmussen, 1996; Fyles, 1990). In the Greenwood area, a series of these low angle faults occur (from east to west, the Granby River, Thimble Mountain, Snowshoe, Bodie Mountain, Deadwood Ridge, Windfall Creek, and Copper Camp faults). These faults have taken a section of the Brooklyn stratigraphy and sliced it into a series of discrete blocks, each separated by a low angle fault. The low angle Tertiary faults have displaced pre-Tertiary mineralization however current thinking attributes at least some of the gold in the deposits to the low angle Tertiary faults that underlie them.

Most of the historical production and previous exploration in the Boundary District has been directed at gold or copper-gold mineralization. The important deposits can be broadly classified into six deposit types, including skarn deposits, epithermal and mesothermal veins, Jurassic alkalic intrusive related mineralization, structurally-controlled gold mineralization associated with serpentinite, and gold-bearing volcanogenic massive sulfide/oxide mineralization.

#### **4.2 Property Geology**

The general geology of the Bluebell property is shown on Figure 3. Numerous people have mapped the property in greater detail than that shown on Figure 3, including Carswell (1957), Reinsbakken (1970), Kyba and Daughtry (1984) and Hitchens (1991), however questions as to stratigraphy and structure still remain, as described below.

The property covers a large area of the Triassic Brooklyn Formation in an area referred to as the B.C. (or Summit) Basin. The B.C. Basin hosts the thickest sequence of Brooklyn rocks exposed in the Greenwood area. A number of significant mineral occurrences are located within the basin, in what has historically been known as the Summit Camp. The mineral occurrences include copper skarn-type deposits, such as the Oro Denoro, where mineralization has strong structural controls and cross-cuts stratigraphy, as well as a number of occurrences such as the Emma and B.C. Mine where massive sulfides/oxides (with high precious metal content) are stratabound and may be volcanogenic in origin. Stratabound mineralization also occurs at the Cyclops, Rathmullen and Lancashire Lass showings (the latter within but not part of the Bluebell property), among others.



Modified after Fyles (1990) and Little (1983)

See accompanying legend.

KETTLE RIVER RESOURCES LTD.	
BLUEBELL PROPERTY	
FIGURE 3	
<b>PROPERTY GEOLOGY &amp; ZONES OF KNOWN MINERALIZATION</b>	
082E.008 & 082E.018	
SCALE: 1:25,000	0 500 1000m
DRAWN BY: LIC/jfw	
DATE: MARCH 2008	
2008-FIG3-BLUEBELL-PROPGEOL.DWG	

# GEOLOGICAL LEGEND

Qal Quaternary Alluvium

## EOCENE

Ei Coryell Intrusions  
Syenite, pulaskite, monzonite and diorite dykes, sills and intrusions.

Ev Marron Formation  
Andesite and trachyte flows.

Es Kettle River Formation  
Volcaniclastic and arkosic sediments.

## CRETACEOUS and/or JURASSIC

gd  
d Nelson Plutonic Complex  
Granodiorite and diorite dykes and stocks.

g Gabbro

## TRIASSIC BROOKLYN FORMATION

Trbv Brooklyn Volcanics  
Fine grained, chloritic and locally calcareous greenstone. Locally grades to microdiorite.

Trbl Brooklyn Limestone  
Massive white to grey limestone, locally well bedded. May be dark grey, carbonaceous limestone. Also includes minor calcareous sandstone.

Trbs Brooklyn Sediments  
Tuffaceous sandstone, siltstone and hornfels.

Trbbx Brooklyn Conglomerate  
Chert breccia (sharpstone conglomerate), tuffaceous sandstone and polymictic (+limestone cobble) conglomerate.

Trba Brooklyn argillite and black siltstone

## PERMIAN ATTWOOD GROUP

Paa Attwood Sediments  
Black siltstone and phyllite, cherty siltstone, minor sandstone, conglomerate and greenstone.

Pal Attwood Limestone  
Massive grey and white limestone, locally well bedded.

## PERMIAN KNOB HILL COMPLEX

Pkc Knob Hill Chert  
Chert plus minor argillite, siliceous greenstone.

Pkv Knob Hill Greenstone  
May be siliceous and grade to Pkc.

Pkbx Knob Hill Chert Breccia and Conglomerate

Pkm Knob Hill Metamorphic Rocks  
Chlorite schist, meta-intrusive, quartzite and chlorite-biotite schist.

od Old Diorite  
Coarse to fine-grained hornblende diorite laced with feldspathic veinlets.

sp Serpentinite

Skarn  
Silicification  
50  
Strike/dip of bedding  
50  
Strike/dip of foliation

— Quartz vein  
~~~~~ High angle fault  
┆┆ Low angle detachment fault  
▲▲ Thrust fault  
●→ Drill hole

⊠ Pit  
— Adit  
▣ Shaft  
X Trench  
Open stope



The main lithologies on the property are massive limestone, chert pebble (sharpstone) conglomerate and fragmental volcanics (all belonging to the Brooklyn Formation) however there is considerable disagreement amongst previous workers as to the stratigraphic section. Kyba and Daughtry (1984) describe a simple section which youngs to the east. Peatfield (1978) and Reinsbakken (1970) believe that the stratigraphy has been folded, while Fyles (1990, 1992) believes that the sequence is faulted, with a series of discrete fault panels each with east-facing stratigraphy. The author favours this latter hypothesis, but detailed mapping is required to confirm it.

The Brooklyn rocks overlie Knob Hill chert (exposed west of the property) and are in turn overlain on the east by Eocene sediments and volcanics on Baker Ridge and Thimble Mountain. These Eocene rocks have an abrupt western boundary that may be faulted, with the rocks east of the fault uplifted (?).

A granodiorite intrusive (part of the Jurassic-Cretaceous Nelson suite and known locally as the Lion Creek granodiorite) occurs in the western part of the property, near the Oro Denoro mine. Copper skarn mineralization at the Oro Denoro is related to the Lion Creek granodiorite. A feldspar-hornblende porphyritic diorite occurs just west of the Emma mine (the Emma diorite) and a small body of fine grained, dark greenish-grey gabbro (the Cyclops gabbro) occurs east of the Oro Denoro mine, near the Cyclops zinc showing. The age of the gabbro is unknown, but it cross-cuts the Brooklyn stratigraphy and is in turn cut by Eocene dykes. Reinsbakken (1970) felt that both the Cyclops gabbro and Emma diorite were border phases of the Nelson suite.

Numerous Eocene syenite stocks, dykes and sills intrude the Brooklyn rocks, and often mark the position of Eocene structures. Exploration is hampered by these sills, which mask the rocks in the underlying fault panel.

Thirteen Minfile showings (including 6 past-producing mines) occur on the Bluebell property, as shown on Figure 3. Descriptions of these (and other) showings are included in Caron (2005). Areas of interest resulting from the (Phase 1) 2007 work program are also shown on Figure 3. These areas are described in detail in Caron (2007).

## 5.0 SOIL GEOCHEMISTRY

A detailed grid was established in the vicinity of the Minnie Moore showing to provide ground control for soil and ground magnetometer surveys. A 1250 meter long UTM north-south baseline (an azimuth of 359°) was run at UTM 387500 E, from 5443250N to 5444500N. The grid origin for the baseline is at 5444000N, 387500E. The baseline was tight-chained, slope corrected and marked with flagging. Lines were spaced at 50 meter intervals along the baseline, and were oriented UTM east-west (an azimuth of 89°). All lines were run east or west from the baseline and were designed to extend from 317150E at the west end to 387650E at the east end. Some of the lines stop short of this eastern limit because of extreme topography. Station spacing was 12.5 meters. In total, 12.3 line kilometers of cross-lines were completed and 991 soil samples were collected. Soil sampling was completed by Terry Pidwerbeski, Alfi Elden, and Lindsay Guza, intermittently between September 10 and October 11, 2007. Note that only the cost of collecting and analysing soil samples has been included in this report. The cost of establishing the grid was filed, along with costs of a ground magnetometer survey, were previously filed and reported (Caron, 2007)

Soil samples were shipped to Acme Analytical Laboratory in Vancouver for preparation and analysis by Acme's Group 1DX method (Au + multi element ICP). Details of the analytical procedure are contained in Appendix 1 and complete analytical results are included in Appendix 5a. Results for select elements are plotted on Figures 4a-j.

The Minnie Moore zone has a modest multi-element (Ag-Au-As-Se-Sb-Hg-Pb-Cu-Mo +/- Zn) soil geochemical signature of limited surface extent. Several anomalies, with similar geochemical signatures and of similar or larger magnitude and extent, were defined by the soil survey. It should be noted that the fall 2007 trenching and drilling programs were completed prior to receiving the soil geochemical results. Drilling and trenching were designed to test geological, not geochemical targets.

To the north of the Minnie Moore trenches, the presence of a flat lying, 50 meter thick Eocene (post-mineral) sill, masks any surface geochemical response of the Minnie Moore zone for a horizontal distance (north-south) of approximately 200 meters. An area of spotty elevated As, Au and Hg (including a 167.5 ppb Au anomaly at the easternmost sample on L 4450N) occurs in soils in the northeastern corner of the grid and should be followed up. This area is underlain by Brooklyn limestone, north of (beneath) the lower sill contact. Several small historic exploration pits were noted in this area, with weak skarn altered limestone exposed. An outcrop of limestone cut by quartz veinlets was also noted. There were no significant results from rock samples collected in this area, however rock exposure is poor. This area should be tested by excavator trenching or diamond drilling, for the northern on-strike extension to the Minnie Moore zone.

A large, strong, multi-element (Zn-As-Cu-Pb-Sb-Mo +/- Au, Ag, Se, Hg) soil anomaly was defined by the 2007 soil survey, approximately 400 meters southwest of the Minnie Moore trenches. The soil anomaly trends roughly north-south, and measures approximately 300 meters by 100 meters in size. Several small outcrops of vuggy quartz veining in limestone, similar to the Minnie Moore discovery outcrop, were noted within the area of anomalous soils, however no significant results were obtained from rock sampling. The Emma epithermal showing is situated at the south end of the soil anomaly, near the west end of L 3500N. Patchy, intermittently exposed weak skarn altered limestone (and limestone breccia) with 1-5% 1-4 centimeter sized limonitic clots of relic massive sphalerite (+ ?) was also noted in this area (the "clot" zone). Select grab samples from this area returned values to 5.98% Zn, as well as elevated Cu, Ag, As (+/- Bi, Co, Hg, Mo and W). A 1987 diamond drill hole by Skylark Resources tested a portion of the "clot" zone. Numerous garnet-epidote skarn zones were intersected in the drill hole, with elevated copper and zinc values, and with locally anomalous molybdenum (to 0.71% Mo over 1.4 metres in one sample) (Burns, 1988). This area warrants further drilling.

In the extreme southeastern corner of the grid, a strong Au-As-Zn-Pb-Cu-Se-Sb-Hg soil anomaly was outlined to the north of the Mountain Rose workings, in the vicinity of the Breyfogle showing. Several old workings at the Breyfogle showing expose sphalerite-rich garnet-calcite skarn mineralization. This area is untested by any trenching or diamond drilling.

Another area of interest resulting from the soil geochemical survey is a zone of anomalous As-Se-Sb +/- Hg, Zn, Pb, Ag at L3750N-3850N, 7400E-7475E, on-strike to the south of the Minnie Moore zone. Similar geochemical anomalies occur further south on the grid. These areas are similarly untested by any previous trenching or drilling, and should be followed up.

## 6.0 TRENCHING

Excavator trenching was done at the Minnie Moore showing during October, 2007, in an attempt to further expose mineralization encountered during an earlier (September 2007) trenching program. In total, 8 trenches totalling approximately 300 linear meters were dug at the Minnie Moore showing during 2007, as shown on Figures 5 and 6. Details of the trenching program, are presented in Caron (2007). This report includes only those results from Phase 2 trench sampling, completed during October. For completeness and ease of interpretation, data tables and maps include both the Phase 1 (previously reported) and Phase 2 (new) trench samples and results.

Trench samples were continuous representative chip samples collected across the sample interval, using a hammer and chisel. Sample intervals at the Minnie Moore ranged from 1.0 - 3.0 meters, at the discretion of the geologist. Shorter sample intervals were used in areas considered more favourable for mineralization. Sample weight was variable, depending on the sample interval, but typically ranged from 3 to 6 kilograms. Descriptions of the trench samples, with sample type and length indicated, are contained in Appendix 2.

Samples were shipped to Acme Analytical Laboratory in Vancouver for preparation and analysis for gold by 30 gram Fire Geochem analysis and for a multi-element ICP-MS suite (Group 3B and 1DX methods). Subsequent fire assay was done on samples returning greater than 100 g/t Ag or greater than 1 g/t Au. A quality control-quality assurance program was implemented by the company during the trenching program. Every 20<sup>th</sup> sample, a field duplicate sample was collected and an analytical standard and a blank sample were inserted into the sample sequence.

Results for select elements are included, with trench sample descriptions, in Appendix 2b, and are shown (for Au, Ag, Cu, Pb, Zn) on Figures 6b-c. Complete analytical results for the Phase 2 trench samples are included in Appendix 5b. Trench sample results are summarized below in Table 4. The new results include infill results in Trench 07-1/3, and an extension to the east end of a line of samples across the vein in Trench 07-2.

| Trench                | Width (m) | Ag (g/t) | Au (g/t) |                       |
|-----------------------|-----------|----------|----------|-----------------------|
| <b>Trench 1/3</b>     |           |          |          |                       |
| Sample line 1         | 8.5       | 414      | 0.88     | <i>Caron (2007)</i>   |
| <i>including</i>      | 4.5       | 652      | 1.61     | <i>Caron (2007)</i>   |
| <i>Sample line 1A</i> | 7.4       | 764      | 0.93     | <i>new assay data</i> |
| <i>including</i>      | 4.0       | 1,084    | 1.63     | <i>new assay data</i> |
| Sample line 2         | 5.8       | 432      | 0.55     | <i>Caron (2007)</i>   |
| <i>including</i>      | 0.8       | 1,362    | 2.54     | <i>Caron (2007)</i>   |
| Sample line 3         | 6.2       | 1,044    | 2.71     | <i>Caron (2007)</i>   |
| <i>including</i>      | 4.2       | 1,469    | 3.95     | <i>Caron (2007)</i>   |
| Trench 2              |           |          |          |                       |
| Sample line 4         | 4.0       | 175      | 0.08     | <i>Caron (2007)</i>   |
| Sample line 5         | 4.5       | 141      | 0.09     | <i>new assay data</i> |
| <i>including</i>      | 2.9       | 126      | 0.08     | <i>Caron (2007)</i>   |

**Table 4 – Minnie Moore Trenches, Mineralized Intervals**

## 7.0 DIAMOND DRILLING

A 10 hole, 1485 meter NQ2 diamond drill program was completed at the Minnie Moore showing during October-November 2007. Drilling was done by More Core Drilling Services Ltd. of Stewart, B.C. Water for drilling was pumped from Wilgress Lake to the drill sites. The pump was set up adjacent to the boat launch at the north end of the lake.

Drilling tested the down dip extension of mineralization encountered in trenching, as well as testing for the on-strike extension of mineralization to the north of the trenches. Drill hole locations are shown on Figures 5 and 6, and hole specifications are listed below in Table 5. The casing has been pulled from all of the drill holes but all of the drill collars have been marked with posts and metal tags indicating hole number, azimuth and dip. None of the drill collars have been surveyed. Collar locations listed in Table 5 were determined by handheld GPS. Elevations were established by a barometric altimeter, relative to a reference elevation of 1115 meters, at Trench 07-1/3.

| <b>Drill Hole</b> | <b>UTM Easting</b> | <b>UTM Northing</b> | <b>Elev (m)</b> | <b>Azimuth</b> | <b>Dip</b> | <b>Depth (m)</b> |
|-------------------|--------------------|---------------------|-----------------|----------------|------------|------------------|
| MM07-1            | 387481             | 5444025             | 1111            | 290            | 45         | 66.13            |
| MM07-2            | 387435             | 5444055             | 1117            | 140            | 45         | 32.61            |
| MM07-3            | 387395             | 5444013             | 1126            | 110            | 45         | 78.32            |
| MM07-4            | 387497             | 5444093             | 1098            | 270            | 50         | 197.18           |
| MM07-5            | 387410             | 5444100             | 1112            | 90             | 50         | 172.80           |
| MM07-6            | 387410             | 5444100             | 1112            | 90             | 58         | 168.08           |
| MM07-7            | 387440             | 5444095             | 1111            | 90             | 50         | 102.70           |
| MM07-8            | 387414             | 5444133             | 1110            | 90             | 50         | 297.75           |
| MM07-9            | 387414             | 5444133             | 1110            | 90             | 58         | 188.04           |
| MM07-10           | 387411             | 5444198             | 1102            | 90             | 50         | 181.94           |

**Table 5 – 2007 Minnie Moore Drill Hole Specifications**

Drill core was transported twice daily to Grand Forks, for logging, sawing and temporary storage in the rented core facility at 6851 14<sup>th</sup> Street. During November 2007, a long-term core storage area was prepared on Kettle River Resources' privately owned land (see Figure 3). A large area was levelled, using a D6 bulldozer, and a 10-15 centimeter thick layer of finely crushed rock (from the Winner Quarry near Phoenix) was spread over the levelled area. As soon as snow conditions permit in the spring, the core will be transported to this site, 2.25 kilometers up the Phoenix road from the highway turn-off, at 5440600N, 387150E, for long term storage.

Core was logged and marked for sampling by Linda Caron. Intervals selected for sampling were sawn, with half of the core submitted for sampling and half of the core retained for reference. Core sawing and sampling was completed by Terry Pidwerbeski. A total of 380 drill core samples were collected and shipped to Acme Analytical Laboratories in Vancouver for gold and multi-element ICP analyses (Group 1F). Details of the analytical procedure are contained in Appendix 1.

Quality control measures were employed, including company inserted standards and blanks. Standard and blank samples were inserted at regular intervals and given sample numbers corresponding to the next consecutive number in the drill core sample sequence. Blank samples and standard samples were staggered, so that after 10 samples a blank was inserted, after another 10 samples a standard was inserted, etc., the result being that every sample number evenly divisible by 10 represents either a blank or a standard sample. Standard and blank samples are clearly identified on drill logs.

The standard samples consisted of approximately 30 grams of pulverized material of high silver sulfide standard (SE-2), purchased from CDN Resource Labs in Vancouver. Reference information regarding the standard, including the origin and assay grade, is contained in Appendix 5d.

Blank samples consisted of field-collected “blank” rocks, collected from an area of subcrop and talus of relatively homogeneous, un-weathered, un-altered and un-mineralized Eocene syenite on the property. Blank samples prepared by the company consisted of several fist-sized pieces of the intrusive from this location. The primary purpose of the company-inserted blank sample was as an independent check on laboratory crushing procedures, specifically poor cleaning of crushing equipment between samples. Because this was the main purpose of the blank samples, a “raw” sample with low values for all elements of interest, but with a large standard deviation in these values resulting from natural variations in the rock, was considered preferable to a more homogenous blank sample that had already been crushed and blended.

Seventeen drill core samples were collected for petrographic study to help characterize host rocks and alteration. Samples were submitted to Vancouver Petrographics Ltd. in Vancouver for polished thin section preparation and analysis. The location of thin section samples are indicated on drill logs. Petrographic descriptions and photomicrographs are included in Appendix 4.

Diamond drill logs are contained in Appendix 3. Complete analytical results for drill core samples are included in Appendix 5c and results for select elements are included in the drill logs (Appendix 3).

Drill sections showing hole geology, sample locations and results for Au and Ag are included as Figures 7a-b to 11a-b. An abbreviated geological legend is included on drill sections. A more detailed geological legend is included on the Minnie Moore trench geology map (Figure 6a).

It should be noted that the fall 2007 trenching and drilling programs were completed prior to receiving the soil geochemical results described in Section 5.0 of this report. Drilling was designed to test geological, not geochemical targets.

Drilling beneath the trenched Minnie Moore vein exposures showed that the vein is cut-off at a depth of less than 10 meters below surface by a 50 meter thick post-mineral sill. Drilling tested for the vein beneath the sill, over a strike length of less than 100 meters to the north only from the trenches. Several zones of silicification, quartz-carbonate veining and argillic or advanced argillic alteration were intersected in the drilling, at depth beneath the sill, however analytical results failed to return values of similar silver and gold tenor to those from trenching. The best result, in hole MM07-5, was a 2 meter interval which returned 66.0 g/t Ag and 0.2 g/t Au.

Surface vein exposures, trace element geochemistry, and strength and extent of alteration seen in drill core, all suggest that the Minnie Moore vein is part of a large epithermal system. Deeper drilling is required to test for the vein at depth beneath the sill, under the Trench 07-1/3 and Trench 07-2 exposures. Drilling is similarly required to test for the vein to the south of the trenched exposures, both above and below the sill, and to test soil geochemical anomalies defined by the fall 2007 soil survey.

## **8.0 RECOMMENDATIONS**

The Minnie Moore epithermal silver-gold zone is an exciting new discovery that shares characteristics with epithermal veins from the Republic District of Washington State, including a similar age, an association with Eocene structural activity, and similar textures, gangue and sulfide mineralogy, and geochemistry. The Minnie Moore zone was trenched as part of the 2007 work program, with good results. Diamond drilling showed that the trenched zone is cut-off (offset?) by a 50 meter thick post-mineral sill, at a shallow depth below surface. Drilling tested for the vein beneath the sill, over a strike length of less than 100 meters to the north only from the trenches. Several zones of silicification, quartz-carbonate veining and argillic or advanced argillic alteration were intersected in the drilling, at depth beneath the sill, however analytical results failed to return values of similar silver and gold tenor to those from trenching.

Surface vein exposures, trace element geochemistry, and strength and extent of alteration seen in drill core, all suggest that the Minnie Moore vein is part of a large epithermal system. Deeper drilling is required to test for the vein at depth beneath the sill, under the Trench 07-1/3 and Trench 07-2 exposures. Drilling is similarly required to test for the vein to the south of the trenched exposures, both above and below the sill.

The Minnie Moore soil geochemical survey was successful in delineating several anomalies with similar geochemical signatures and of similar or larger magnitude and extent, to that at the Minnie Moore showing. An area of spotty elevated As, Au and Hg in soils (including a 167.5 ppb Au anomaly at the easternmost sample on L 4450N) in the northeastern corner of the grid should be followed up by trenching or drilling to test for the northern on-strike extension to the Minnie Moore zone.


A large, strong, multi-element (Zn-As-Cu-Pb-Sb-Mo +/- Au, Ag, Se, Hg) soil anomaly occurs approximately 400 meters southwest of the Minnie Moore trenches. Epithermal-style quartz veinlets cutting limestone were discovered in this area, which is also a high-priority for drill testing. Other soil anomalies requiring follow-up include a strong Au-As-Zn-Pb-Cu-Se-Sb-Hg soil anomaly in the extreme southeast corner of the grid, and a zone of anomalous As-Se-Sb +/- Hg, Zn, Pb, Ag due south of the Minnie Moore trenches. Both these areas are untested by any previous trenching or drilling.

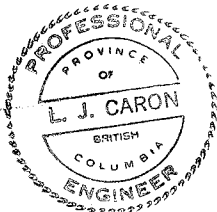
Detailed orthophoto base maps with topographic control should be obtained for the Minnie Moore zones, for location and elevation control during follow-up diamond drilling.

**9.0 STATEMENT OF QUALIFICATIONS**

I, Linda J. Caron, certify that:

1. I am an independent consulting geologist residing at 717 75<sup>th</sup> Ave (Box 2493), Grand Forks, B.C., V0H 1H0
2. I obtained a B.A.Sc. in Geological Engineering (Honours) in the Mineral Exploration Option, from the University of British Columbia (1985) and graduated with an M.Sc. in Geology and Geophysics from the University of Calgary (1988).
3. I have practised my profession since 1987 and have worked in the mineral exploration industry since 1980. Since 1989, I have done extensive geological work in Southern B.C. and particularly in the Greenwood - Grand Forks area, both as an employee of various exploration companies and as an independent consultant.
4. I am a member in good standing with the Association of Professional Engineers and Geoscientists of B.C. with professional engineer status.
5. I previously worked on both the Bluebell property, as well as on numerous exploration properties in the vicinity, over the past twenty years. I supervised the work program described in this report.

  
Linda Caron, M.Sc., P. Eng.



April 4/08  
Date of signing



**10.0 COST STATEMENT****Labour:**

|                   |                                                                                               |                  |
|-------------------|-----------------------------------------------------------------------------------------------|------------------|
| Linda Caron       | Geologist –core logging, program supervision,<br>report preparation<br>25 days @ \$636.00/day | \$ 15,900.00     |
| Alfrieda Elden    | Prospector - soil sampling, trench sampling<br>7 days @ \$318.00/day                          | \$ 2,226.00      |
| Terry Pidwerbeski | Prospector - soil sampling, core sawing, drill supervision<br>30 days @ \$318.00/day          | \$ 9,540.00      |
| Roger Kennedy     | Prospector – soil sampling<br>3 days @ \$250/day                                              | \$ 750.00        |
| Lindsay Guza      | Labourer – soil sampling, trench sampling<br>4 days @ \$175.00/day                            | \$ <u>700.00</u> |
|                   |                                                                                               | \$ 29,116.00     |

**Analytical Costs:**

|                                                            |  |                  |
|------------------------------------------------------------|--|------------------|
| Acme Analytical Laboratory, Vancouver, B.C.                |  |                  |
| 46 trench samples – Group 1DX, Group 3B + overlimit assays |  | \$ 2,076.43      |
| 991 soil samples – Group 1DX                               |  | \$ 21,008.41     |
| 380 drill core samples – Group 1F                          |  | \$ 15,987.58     |
| CDN Resource Labs, Vancouver, B.C.                         |  |                  |
| Analytical standards for trenching and diamond drilling    |  | \$ <u>433.16</u> |
|                                                            |  | \$ 39,505.58     |

**Diamond Drilling:**

|                                                 |  |                    |
|-------------------------------------------------|--|--------------------|
| More Core Drilling Services Ltd., Stewart, B.C. |  |                    |
| Footage cost: 1485.44 m @ \$78.50/meter         |  | \$ 116,607.26      |
| Mob/demob                                       |  | \$ 10,419.80       |
| Cat hours – drill site prep and moves           |  | \$ 6,614.40        |
| Contract Extras – rods, grease, man hours       |  | \$ 38,189.98       |
| Room and Board                                  |  | \$ 6,163.62        |
| Fuel                                            |  | \$ <u>5,328.62</u> |
|                                                 |  | \$ 183,323.68      |

**Other Expenses:**

|                                                                                    |    |                  |
|------------------------------------------------------------------------------------|----|------------------|
| Vehicle rental: 32 vehicle days @ \$79.50/day                                      |    | \$ 254.40        |
| Chainsaw rental 1 day @ \$53/day                                                   | \$ | 53.00            |
| Fuel                                                                               |    | \$ 482.59        |
| Core processing facility and core saw rental                                       |    | \$ 2,000.00      |
| Lime Creek Logging, prepare area for core storage                                  |    | \$ 3,604.85      |
| Watson Wood Products – core boxes                                                  |    | \$ 3,255.49      |
| Pass Creek Enterprises –road use permit                                            |    | \$ 1,265.00      |
| Pothier Enterprises – core saw blades                                              |    | \$ 1,049.40      |
| Vancouver Petrographics – 17 polished thin sections, preparation and description   |    | \$ 3,555.24      |
| Greyhound - shipping costs (soil, trench, drill samples, supplies)                 |    | \$ 2,737.03      |
| Field supplies (bags, flagging, posts for marking holes, safety glasses, ties etc) |    | \$ 1,110.04      |
| Wildrock Resources – drafting                                                      |    | \$ <u>650.00</u> |
|                                                                                    |    | \$ 20,017.01     |

**TOTAL: \$ 271,962.30**

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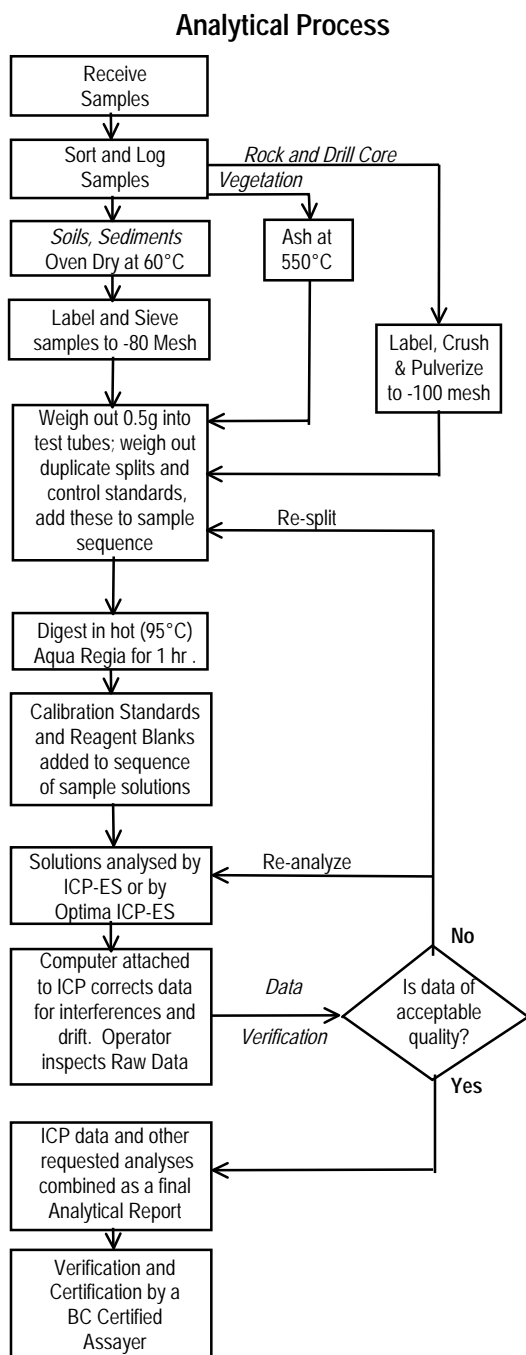
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## APPENDIX 1

### Analytical Procedures

**METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE**  
**GROUP 1D & 1DX - ICP ANALYSIS – AQUA REGIA**



**Comments**

**Sample Preparation**

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 m), rocks and drill core are crushed and pulverized to -150 mesh (-100 m). Vegetation is dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded then sieved to recover -80 mesh sediment or ashed at 550°C then sieved to -80 mesh with potential loss by volatilization of Hg, As, Sb, Bi and Cr. Aliquots of 0.5 g are weighed into test tubes. Duplicate aliquots are taken from two samples in each batch of 34 samples to measure precision. An aliquot of sample standard STD C3 is added to each batch to monitor accuracy.

**Sample Digestion**

Aqua Regia is a 2:2:2 mixture of ACS grade conc. HCl, conc. HNO<sub>3</sub> and demineralized H<sub>2</sub>O. Aqua Regia is added to each sample and to two empty reagent blank test tubes in each batch of samples. Sample solutions are digested for 1 hr in a boiling hot water bath (95°C).

**Sample Analysis**

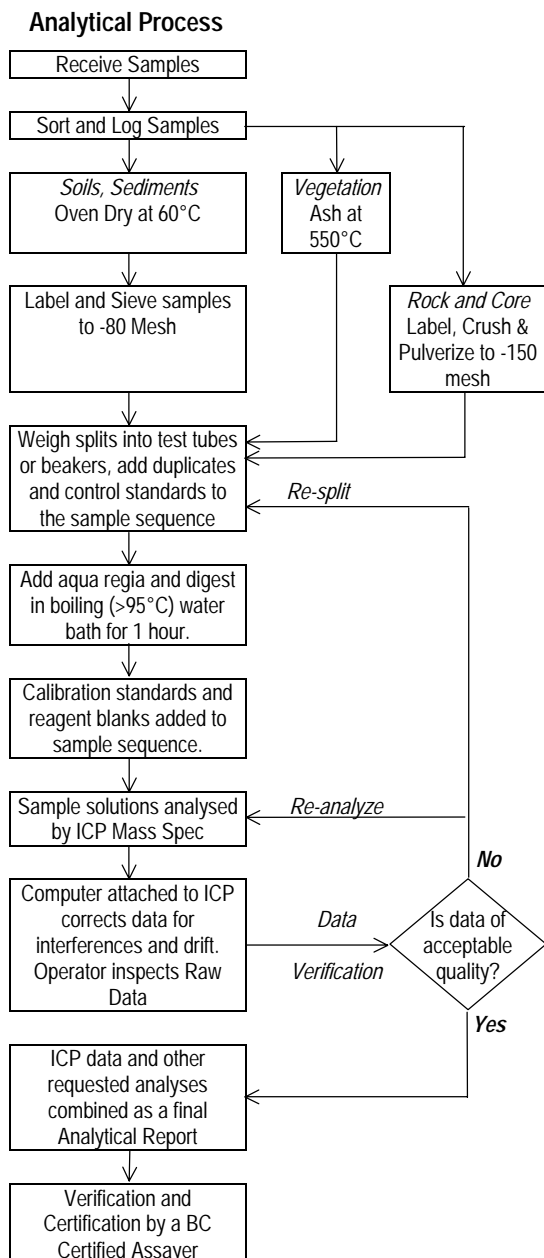
**Group 1D:** sample solutions are aspirated into a Jarrel Ash AtomComp 800 or 975 ICP emission spectrograph to determine 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

**Group 1DX:** sample solutions are aspirated into a Perkin Elmer Optima 3300 Dual View ICP emission spectrograph to determine 35 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Ti, Sr, Th, Ti, U, V, W, Zn.

**Data Evaluation**

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

## METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1F-MS – ULTRATRACE BY ICP-MS • AQUA REGIA



### Comments

#### Sample Collection

Samples may consist of soil, sediment, plant or rock. A minimum field sample weight of 200 gm is recommended.

#### Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns). Moss-mat samples are dried (60°C), pounded to loosen trapped sediment, then sieved to -80 mesh. Rocks are dried (60°C) crushed (>75% -10 mesh) and pulverized (>95% -150 mesh). Splits weighing 1 to 30 g (Optional packages) are placed in bottles. Each batch (34 samples) contains a duplicate pulp split for monitoring precision and reference material DS2 for monitoring accuracy.

#### Sample Digestion

Aqua Regia is added to each bottle (3mL/gm of sample). Aqua Regia is a 2:2:2 mixture of ACS grade concentrated HCl, concentrated HNO<sub>3</sub> and distilled H<sub>2</sub>O. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C). The solutions are then diluted to 20:1 mL/gm ratio. A reagent blank is carried in parallel through leaching and analysis.

#### Sample Analysis

Analysis is by an Elan 6000 ICP Mass Spec for the determination of 37 elements comprising: Au, Ag, Al, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, Ga, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sr, Te, Th, Ti, Tl, U, V, W and Zn. Extended element packages containing incompatible elements (Hf, Nb, etc.) and REEs are available. Sample volumes of 10 to 30 gm are recommended when the determination of Au or other elements subject to the nugget effect are of importance.

#### Data Evaluation

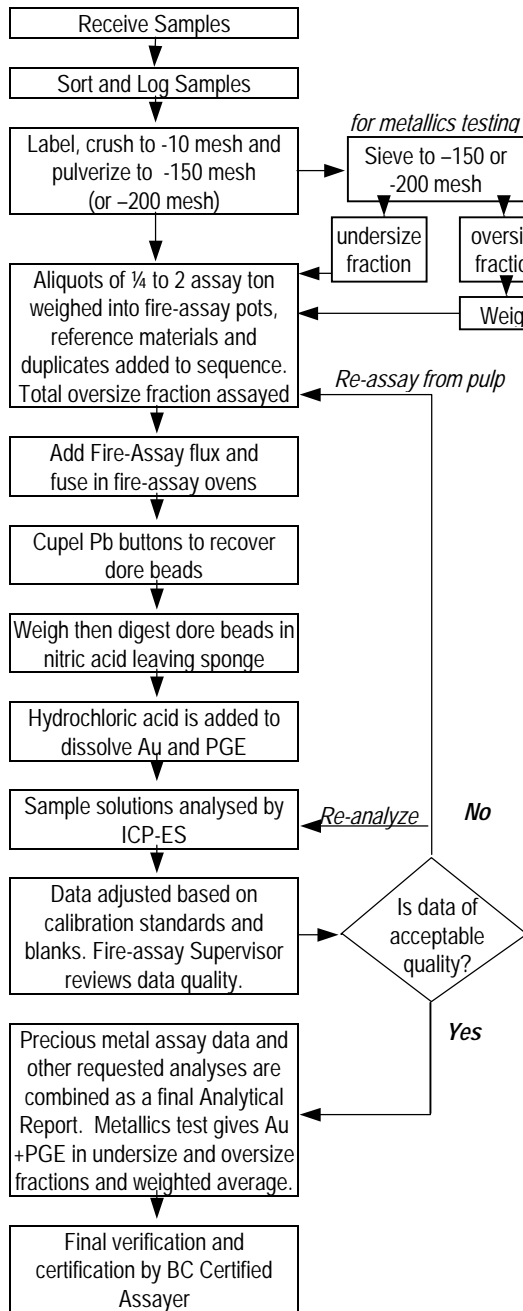
Raw data are reviewed by the instrument operator and by the laboratory information management system. The data is subsequently reviewed and adjusted by the Data Verification Technician. Finally all documents and data undergo a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.





## METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 6 - PRECIOUS METAL ASSAY

### Analytical Process



### Comments

#### Sample Preparation

Rocks and drill core are crushed to 75% minus 10 mesh (-1.7 mm), a 250 g subsample is riffle split then pulverized to 95% minus 150 mesh (-100 microns) or minus 200 mesh upon request. Reject and pulp duplicate splits are taken from two samples in every 34 to monitor sub-sampling variation related to sample inhomogeneity and analytical variation, respectively. One quarter (7.5 g) to two assay ton (58.4 ±0.01g) splits are weighed. STD Au-1 (Au reference material), STD Ag-2 (Ag reference material) or STD FA-10R (Au, Pt, Pd, Rh reference material) and a blank are added to each analytical batch to monitor accuracy. Results are reported in imperial (oz/t) or metric (gm/mt) measure. For metallics testing, 500+ gm is pulverized and sieved through a 150 or 200 mesh screen. The oversize material on the screen is weighed and assayed in total. A 1 or 2 assay ton split of the undersize fraction is also assayed.

#### Sample Digestion

Sample split is mixed with fire-assay fluxes containing PbO litharge and a Ag inquant then heated at 1000°C for 1 hour to liberate Au + PGE. After cooling, lead buttons are recovered and cupelled at 950°C to render Ag ±Au ±Pt ±Pd ±Rh dore beads. Beads are weighed then leached in 1 mL of conc. HNO<sub>3</sub> at >95°C to dissolve Ag leaving Au ±PGE sponges. A Au inquant is used for Rh assays where the concentration is likely to exceed 10 ppb. The sponge is dissolved by adding 6 mL of 50% HCl.

#### Sample Analysis

The solutions are analyzed by ICP-ES (Jarrel Ash Atom-Comp model 800 or 975) to determine Au, Pt, Pd and Rh. Au or PGEs over 1 oz/t are determined by gravimetric finish. Ag is determined both by fire assay and wet assay. Ag over 10 oz/t is reported from the fire assay while concentrations <10 oz/t are reported from the wet assay. Metallics testing reports concentrations of Au ±PGEs in the undersize fraction, the oversize fraction and the calculated weighted average of these fractions.

#### Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toy and Jacky Wang.

## APPENDIX 2

### Trench Sample Descriptions





## APPENDIX 3

### Drill Logs

PROPERTY: Minnie Moore

HOLE: MM 07-1

Collar UTM Easting: 387481 Nad 83

Northing: 5444025

Grid Easting:

Northing:

Purpose: Attempt to intersect Minnie Moore zone under TR07-3, collar on east side of vein

Azimuth: 290

Dip: -45

Depth: 66.13 m 217'

Elevation: 1111 m

Dip Test: none

Started: Oct 27/07

Completed: Oct 28/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis. Core size NQ2

| DOMINANT ROCK TYPE |           |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE   |             |           |                 | Ag<br>PPB | Au<br>PPB | Cu<br>PPM | Pb<br>PPM | Zn<br>PPM | As<br>PPM | Sb<br>PPM | Hg<br>PPB | Se<br>PPM | Te<br>PPM |
|--------------------|-----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| From<br>(m)        | To<br>(m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample # | From<br>(m) | To<br>(m) | Interval<br>(m) |           |           |           |           |           |           |           |           |           |           |
| 0.00               | 3.05      | Casing    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 3.05               | 4.75      | Ei2       | Px-fsp porphyritic Eocene intrusive. Dark grey-brown, weak-mod magnetic, fng chilled dyke with 5% 2-4 mm dark green an-subhedral px phenos, part altered to chl + py, 2-5% 3 mm subhedral fsp phenos in fng gmass. Likely this is a chilled phase of the bi-phyric unit.<br>@ 4.75 m irregular chilled intrusive contact at 50° to C/A, to limestone bx below.                                                                                                                                              |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 4.75               | 6.60      | Trbl (bx) | Coarse limestone breccia with 80% 1-10 cm angular fine grained white-pale grey lst clasts supported in a fine grained grey-green strongly calcareous limey sst gmass.                                                                                                                                                                                                                                                                                                                                       |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 6.60               | 15.10     | Ei1a      | Typical massive, homogeneous, fresh, pinkish-brown medium grained Kspar megacrystic syenite dyke. Non-magnetic. Chilled margins at upper and lower contacts.<br>@ 6.6 m upper contact is sharp very irregular chilled intrusive contact<br>@ 15.1 m lower contact is sharp chilled intrusive contact @ 60°                                                                                                                                                                                                  |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 15.10              | 20.00     | Ei2       | Dark grey, weak-mod magnetic, typically fresh, massive and fine grained, with 5% 1-3 mm sub-euhedral fsp phenos, 5-10% 1 mm sub-euhedral px in fine grained gmass. Minor late harline cc vnlt.<br>15.1 - 17.0 Upper contact has aphanitic chilled margin with 2% biotite phenos<br>15.35 - 16.30 Narrow band of mod calcareous, mottled, very hard, chl-hem (gar?) skarn. Mottled pale brown-grey-green colour. Brown sections are possible fine grained massive garnet or albite altered? Non-mineralized. |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 20.00              | 24.65     | Ei1a      | Typical pink Kspar megacrystic syenite as in 6.6 - 15.1 m, with intrusive contacts and chilled margins at upper and lower contacts. This unit post-dates and intrudes Ei2.<br>@ 20.0 m sharp upper contact at 60°<br>@ 24.65 sharp lower contact at 45°                                                                                                                                                                                                                                                     |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 24.65              | 66.13     | Ei2       | Fresh, massive, dark grey, mod magnetic, med-coarse grained, bi-fsp-px porphyritic. Coarser grained equiv of unit in 3.05 - 4.75 m and 15.1 - 20.0 m, becoming coarser grained from ~ 30-42 m, then fining again. 15% blocky 2-3 mm subhedral fsp, 2-5% euhedral 1-3 mm biotite, 10% 1-2 mm subhedral px. Minor late cc vnlt.<br>42.0 - 45.3 m Interval contains several narrow cc filled fracs with slickensides.<br>@ 45.5 m grades to intensely bleached, clay altered interval                          |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
|                    |        |           | 45.5 - 48.5 m Fault zone with strong argillic alteration. Pale green-grey, mod to very soft, weak-mod to intensely bleached and argillic altered zone associated with interval of faulting. Relic fsp-bi phenos. Texturally indistinct from bfp above and below. Saus relic fsp phenos. Bi phenos may be part to completely altered to py and are unrecognizeable in >> altered sections. Non-mag in >> altered sections, weak-mod mag in << altered sections. Weakly calcareous. | 12351    | 45.50    | 48.50  | 3.00         | 82  | 1   | 22  | 21  | 70  | 7   | 0.4 | <5  | <0.1 | <0.02 |
|                    |        |           | @ 45.6 m 2 cm gouge zone + coarse cc vn at 30°                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 47.75 - 48.0 crushed zone + gouge. Fault.                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | @ 48.5 m grades back into dark grey, mod magnetic massive med to coarse bio-fsp-px porph, as above.                                                                                                                                                                                                                                                                                                                                                                               |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | @ 50.3 m narrow gouge zone                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | @ 62.25 m slickensides on tight fract at 45°                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 65.6 - 66.13 m chilled margin with bi phenos and minor chl-hem frags. Hole ends in chill zone.                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 66.13              | EOH    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |      |       |





PROPERTY: Minnie Moore

HOLE: MM 07-2

Collar UTM Easting: 387435 Nad 83

Northing: 5444055

Grid Easting:

Northing:

Purpose: Attempt to intersect Minnie Moore zone under TR07-3, collar on road on west side of vein

Azimuth: 140

Dip: -45

Depth: 32.61 m 107'

Elevation: 1117 m

Dip Test: none

Started: Oct 28/07

Completed: Oct 28/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis.

Core :NQ2

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                              | SAMPLE   |          |        |              | Ag   | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample # | From (m) | To (m) | Interval (m) | PPB  | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
| 3.05               | 12.20  | Trbl (bx) | Grey-pale buff str calcareous fine grained limestone and coarse clast-supported limestone breccia with grey-green limy sst and/or hairline-mm scale black chl +/- py vnlt between bx clasts. V minor patchy hem-py and minor local silic'd zones and minor mm-scale white cc-qtz vnlt.                                                                                                                                                   | 12352    | 3.05     | 5.00   | 1.95         | 296  | 5   | 5   | 4   | 15  | 61  | 0.5 | <5  | 0.2  | 0.04  |
|                    |        |           | 3.05 - 5.6 m mod Fe ox frags                                                                                                                                                                                                                                                                                                                                                                                                             | 12353    | 5.00     | 5.25   | 0.25         | 1202 | 30  | 7   | 7   | 12  | 133 | 1.2 | 12  | 0.5  | <0.02 |
|                    |        |           | 5.0 - 5.25 str silic'd bx zone/vein. Aphanitic massive silic'n. Short interval comprised of broken pieces, but looks to be 2 10 cm veins, separated by 5 cm of unaltered limestone. 5% fine py - patchy and mm scale vnlt. Irregular but sharp contacts to zone, at 80°.                                                                                                                                                                 | 12354    | 5.25     | 6.75   | 1.50         | 110  | 24  | 7   | 2   | 16  | 17  | 0.3 | <5  | 0.6  | 0.06  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12355    | 6.75     | 8.25   | 1.50         | 196  | 10  | 12  | 3   | 29  | 19  | 0.4 | 7   | 0.7  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12356    | 8.25     | 9.60   | 1.35         | 153  | 21  | 9   | 2   | 30  | 26  | 0.4 | 6   | 0.6  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12357    | 9.60     | 12.20  | 2.60         | 298  | 13  | 4   | 6   | 15  | 15  | 0.7 | 7   | 0.3  | 0.04  |
|                    |        |           | 9.6 - 12.2 m Fault Zone with cc-quartz veining and silicification. Strongly broken interval with 80% core recovery and 75% of interval comprised of pieces < 3 cm in size, some of which are ground. Str Fe ox surfaces. 10-15% of interval is coarse white massive cc veining, to 10-15 cm. Common narrow gouge + fault bx zones. Many pieces have irregular mm-cm scale cc-qtz vnlt, which can have ~5% fine py, or pervasive silic'n. |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
|                    |        |           | 12.1 - 12.2 m Fault bx and gouge. Can't tell orientation.                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
| 12.20              | 14.45  | Ei1a      | Typical pinkish-brown Kspar megacrystic syenite dyke. Upper contact is faulted and not chilled. Lower contact has chilled margin but is also broken and faulted.                                                                                                                                                                                                                                                                         |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12358    | 12.20    | 14.45  | 2.25         | 102  | 1   | 10  | 20  | 64  | 3   | 0.2 | <5  | <0.1 | <0.02 |
| 14.45              | 15.50  | Trbl      | Narrow band of massive grey limestone. Unaltered and un-mineralized.                                                                                                                                                                                                                                                                                                                                                                     | 12359    | 14.45    | 15.50  | 1.05         | 148  | 2   | 4   | 8   | 19  | 42  | 0.4 | 6   | 0.2  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12360    | BLANK    |        |              | 80   | 3   | 2   | 36  | 78  | 11  | 0.3 | 8   | <0.1 | <0.02 |
| 15.50              | 19.00  | Ei2       | Typical dark grey fine grained mod magnetic Ei2 intrusive. Generally has equigranular texture but locally coarsens enough that it becomes fsp-px phyrlic.                                                                                                                                                                                                                                                                                |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
| 19.00              | 24.35  | Ei1a      | Bleached, pale grey-green, mod soft, mod argillic altered Ei dyke with 5% relic saus 2-4 mm Kspar phenos. Texturally looks like protolith was Ei1 syenite, not Ei2. Common fractures with mm + strong scale talc or smectite? coating and several mm scale gouge zones. Alteration decreases from alteration 23.7 - 24.37, with sharp intrusive lower contact @ 24.35 m, at 60°.                                                         |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12361    | 19.00    | 21.00  | 2.00         | 128  | 2   | 5   | 40  | 76  | 5   | 0.5 | 7   | <0.1 | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12362    | 21.00    | 23.00  | 2.00         | 137  | 3   | 6   | 29  | 69  | 5   | 0.6 | 7   | <0.1 | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12363    | 23.00    | 24.35  | 1.35         | 95   | 2   | 5   | 33  | 69  | 7   | 0.5 | 7   | <0.1 | <0.02 |
| 24.35              | 27.90  | Ei2       | Typical dark green, mod magnetic, fine grained fsp-px porphyritic intrusive, as in 15.5 - 19.0.                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
| 27.90              | 32.61  | Ei1a      | Typical coarse pink weak-mod mag Kspar megacrystic syenite with 0.5 m chill zone at upper contact.                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |      |     |     |     |     |     |     |     |      |       |
| 32.61              | EOH    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |      |     |     |     |     |     |     |     |      |       |



PROPERTY: Minnie Moore

HOLE: MM 07-3

Collar UTM Easting: 387434 Nad 83

Northing: 5444054

Grid Easting:

Northing:

Purpose: Attempt to intersect Minnie Moore zone under TR07-2 ("upper trench"), collar to west of trench

Azimuth: 110

Dip: -45

Depth: 78.32 m 257'

Elevation: 1126 m

Dip Test: none

Started: Oct 28/07

Completed: Oct 29/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis.

Core :NQ2

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                  | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                              | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 3.05               | 23.57  | Trbs      | Aphanitic to very fine grained, calcareous, siliceous siltstone or volcanic siltstone. Massive to finely bedded and with minor interbedded massive grey limestone and coarse lst bx.                                                                                                                                         |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 3.05 - 13.05 m Very hard, pale grey-green, well bedded, finely bedded (mm-cm scale) at 75°, mottled looking calcareous siliceous siltstone with bleached buff to pinkish sericite? albite? alt'n selvages to hairline py-chl vnlt and to less common blebby py (as in Syl K footwall rx) & py bands par to bedding. ~ 2% py. | 12364    | 3.05     | 5.05   | 2.00         | 147     | 6   | 51  | 4    | 75       | 111  | 2.2  | 9   | 0.4  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12365    | 5.05     | 7.05   | 2.00         | 64      | 11  | 44  | 3    | 75       | 64   | 1.3  | 21  | 0.2  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12366    | 7.05     | 9.05   | 2.00         | 77      | 8   | 70  | 3    | 81       | 37   | 1.3  | <5  | 0.5  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12367    | 9.05     | 11.05  | 2.00         | 81      | 6   | 71  | 3    | 53       | 61   | 1.2  | <5  | 0.9  | 0.03  |
|                    |        |           | 12.1 - 12.4 Fault Zone. Gouge and tectonic bx + massive cc veining at 75°                                                                                                                                                                                                                                                    | 12368    | 11.05    | 13.05  | 2.00         | 228     | 7   | 54  | 8    | 66       | 60   | 1.7  | 7   | 1.5  | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12369    | 13.05    | 14.42  | 1.37         | 461     | 6   | 14  | 6    | 21       | 138  | 1.2  | 5   | 1.6  | 0.14  |
|                    |        |           | 13.05 - 15.75 m Grey limestone bx. Very coarse clast supported bx with 95% > 10 cm lst clasts with green calcareous sst filling between clasts + minor chl-py stringers.                                                                                                                                                     | 12370    | STD SE-2 |        |              | >100000 | 175 | 444 | 9252 | >10000.0 | 4240 | 95.1 | 753 | 19.7 | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12371    | 14.42    | 14.60  | 0.18         | 1049    | 14  | 9   | 11   | 36       | 429  | 2.6  | 10  | 3.1  | 0.39  |
|                    |        |           | 14.42 - 14.60 Mod-str silic'd zone with 10% fine diss py and with faulted gouge filled contacts at 60-80°.                                                                                                                                                                                                                   | 12372    | 14.60    | 15.75  | 1.15         | 835     | 8   | 7   | 7    | 23       | 465  | 1.6  | 9   | 3.4  | 0.42  |
|                    |        |           | 15.4 - 15.75 moderately silic'd zone in limestone with 5-10% py - diss and patchy, at gradational contact to siliceous siltstone below.                                                                                                                                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 15.75 - 23.57 m Aphanitic to fine grained siliceous calcareous siltstone (or volc siltstone) with 2-5% py, as in 3.05 - 13.05 m, with local gar-ep skarn and biotite? alteration. Common chl-cc frags with slickensides. Common cc vnlt and gash filling.                                                                    | 12373    | 15.75    | 17.50  | 1.75         | 884     | 9   | 51  | 9    | 161      | 249  | 2.6  | 12  | 1.7  | 0.18  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12374    | 17.50    | 19.25  | 1.75         | 566     | 15  | 49  | 6    | 67       | 109  | 1.9  | 8   | 2.3  | 0.06  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12375    | 19.25    | 21.00  | 1.75         | 179     | 7   | 62  | 4    | 59       | 45   | 1.0  | 8   | 1.3  | <0.02 |
|                    |        |           | 17.37 - 17.5 Fault Zone - gouge and crushed core.                                                                                                                                                                                                                                                                            | 12376    | 21.00    | 22.65  | 1.65         | 67      | 3   | 10  | 4    | 59       | 16   | 0.7  | <5  | 0.3  | <0.02 |
|                    |        |           | 19.25 - 21.0 Interval of dark brown mod-str biotite alteration?, patchy and massive intervals, grading in and out.                                                                                                                                                                                                           | 12377    | 22.65    | 23.57  | 0.92         | 570     | 7   | 73  | 9    | 64       | 99   | 2.0  | <5  | 1.5  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12378    | 23.57    | 25.70  | 2.13         | 753     | 6   | 16  | 3    | 16       | 114  | 0.8  | <5  | 1.3  | 0.39  |
|                    |        |           | 21.0 - 22.65 Mod-str epidote and pale brown garnet skarn alteration. Massive, fine grained, mottled pale gren-pale brown colour.                                                                                                                                                                                             | 12379    | 25.70    | 26.80  | 1.10         | 5102    | 30  | 8   | 5    | 22       | 218  | 0.9  | <5  | 2.2  | 3.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12380    | BLANK    |        |              | 49      | 5   | 3   | 22   | 64       | 4    | 0.2  | <5  | <0.1 | <0.02 |
|                    |        |           | 23.0 - 23.47 Fault Zone at 75°. Numerous gouge/crush zones + broken core.                                                                                                                                                                                                                                                    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12381    | 26.80    | 29.15  | 2.35         | 256     | 3   | 10  | 3    | 15       | 52   | 0.4  | <5  | 1.5  | 0.10  |
| 23.57              | 29.15  | Trbl (bx) | Grey massive limestone to coarse limestone mosaic breccia with 98+% clasts separated by mm scale py-chl vnlt and space filling. Mod later irreg cc vnlt.                                                                                                                                                                     | 12382    | 29.15    | 32.00  | 2.85         | 440     | 5   | 45  | 6    | 49       | 144  | 1.4  | <5  | 1.8  | 0.12  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                              | 12383    | 32.00    | 34.88  | 2.88         | 314     | 4   | 39  | 7    | 74       | 111  | 1.0  | <5  | 1.0  | <0.02 |
|                    |        |           | 25.7 - 26.8 Mixed zone with aphanitic siliceous volcanic siltstone as above + bx with chert or intensely silic'd clasts.                                                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 29.15              | 34.88  | Trbs      | Dominantly fine grained to aphanitic, siliceous, very hard, mottled calcareous skarn altered siltstone or volcanic siltstone as in 15.75 - 23.57 m, with local fine grained massive ep-gar-px skarn and local mod-str intervals of dark brown (biotite?) alteration. 2-5% py - diss, vnlt and minor blebby patches.          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| DOMINANT ROCK TYPE |        |            | DESCRIPTION                                                                                                                                                                                                                                                        | SAMPLE   |          |        |              | Ag      | Au   | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|------|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology  |                                                                                                                                                                                                                                                                    | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB  | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |            | 30.8 - 31.6 limestone bx                                                                                                                                                                                                                                           |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 34.88              | 37.02  | Trbl (bx)  | Massive grey limestone/limestone mosaic breccia as in 23.57 - 29.15 m, but < py.                                                                                                                                                                                   | 12384    | 34.88    | 37.02  | 2.14         | 64      | <0.2 | 7   | 3    | 18       | 19   | 0.3  | <5  | 0.3  | 0.04  |
| 37.02              | 42.45  | Ei2        | Dark grey, fine grained, fine fsp-px porphyritic Ei2 dyke/sill, as in previous holes. Weakly magnetic. Typically massive but contains minor v local lst xenoliths.                                                                                                 |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | @ 37.02 m Upper contact is chilled, sharp intrusive contact at 70°                                                                                                                                                                                                 |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 37.14 - 40.02 m Typical pinkish-brown Kspar megacrystic Ei1a weakly magnetic syenite dyke with 0.4 m chilled margin at upper and lower contact. Cuts Ei2 at 85°.                                                                                                   |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 42.0 - 42.45 grades into moderately argillic altered Ei2.                                                                                                                                                                                                          |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 42.45              | 50.40  | FAULT ZONE | Zone of strong faulting - gouge + intense argillic altered Ei2 and Ei1 dykes + cm scale veins of massive white soft soapy talc or clay (smectite?) + minor intervals of lst and siltstone.                                                                         | 12385    | 42.45    | 44.00  | 1.55         | 351     | 5    | 73  | 17   | 58       | 63   | 1.0  | 10  | 2.4  | 0.06  |
|                    |        |            |                                                                                                                                                                                                                                                                    | 12386    | 44.00    | 44.80  | 0.80         | 3908    | 28   | 48  | 34   | 70       | 39   | 0.8  | <5  | 1.1  | 0.14  |
|                    |        |            |                                                                                                                                                                                                                                                                    | 12387    | 44.80    | 47.30  | 2.50         | 300     | 6    | 22  | 45   | 73       | 7    | 0.3  | <5  | 0.1  | <0.02 |
|                    |        |            | 42.45 - 44.0 Bx zone with lst frags & intervals of strong sericite-clay-chlorite altered Trbs, 5% py                                                                                                                                                               | 12388    | 47.30    | 47.80  | 0.50         | 265     | 4    | 36  | 17   | 45       | 23   | 0.4  | <5  | 1.2  | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                    | 12389    | 47.80    | 50.40  | 2.60         | 138     | 1    | 33  | 16   | 58       | 8    | 0.2  | <5  | 0.5  | <0.02 |
|                    |        |            | 44.0 - 44.8 Fault gouge at 75° + intense argillic altered Ei2 dyke + minor Trbs/l.                                                                                                                                                                                 | 12390    | STD SE-2 |        |              | >100000 | 190  | 429 | 8562 | >10000.0 | 3775 | 85.3 | 778 | 19.8 | 0.05  |
|                    |        |            | 44.8 - 47.3 Intensely argillic altered Ei1a dyke with relic Kspar megacrystic texture preserved. Bleached white, very soft. Cut by common talc (or clay) veinlets.                                                                                                 |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 47.3 - 47.8 Mod-str silic'd limestone and volcanic siltstone.                                                                                                                                                                                                      |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 47.8 - 48.4 Weak argillic altered, strongly calcareous siltstone (or volc siltstone) and limestone.                                                                                                                                                                |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 48.4 - 50.4 Mod-str argillic altered Ei2 dyke. Bleached pale-med grey with well preserved px phenos. Cut by numerous cm scale strong, massive white soapy talc or clay veins. Argillic alteration decreases down section.                                          |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 50.25 - 50.35 Gouge zone                                                                                                                                                                                                                                           |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 50.40              | 78.32  | Ei2        | Typical medium to coarse grained, massive, dark grey, mod magnetic bi-fsp-px phyric intrusive. Generally fresh, unaltered unit. Where it is coarser grained it can have rare large (0.5 cm) euhedral tabular Kspar phenos. Unit becomes coarser grained down hole. |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | Grades to weak to strongly bleached and argillic altered adjacent to fault zones.                                                                                                                                                                                  |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 54.6 - 54.70 Fault zone. Crushed zone with gouge and massive talc vein.                                                                                                                                                                                            |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 54.7 - 56.3 Bleached, weak-mod argillic altered Ei1a Kspar megacrystic syenite dyke cuts Ei2. Alteration is > adjacent to fault at 54.7, and decreases down section.                                                                                               |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |            | 65.7 - 66.25 Fault zone. Grades into bleached, str argillic altered Ei2 + minor fault gouge. Biotite                                                                                                                                                               |          |          |        |              |         |      |     |      |          |      |      |     |      |       |

| DOMINANT ROCK TYPE |           |           | DESCRIPTION                        | SAMPLE   |             |           |                 | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te  |
|--------------------|-----------|-----------|------------------------------------|----------|-------------|-----------|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| From<br>(m)        | To<br>(m) | Lithology |                                    | Sample # | From<br>(m) | To<br>(m) | Interval<br>(m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM |
| 78.32              | EOH       |           | phenos well preserved in Ei2 unit. |          |             |           |                 |     |     |     |     |     |     |     |     |     |     |



PROPERTY: Minnie Moore

HOLE: MM 07-4

Collar UTM Easting: 387497 Nad 83

Northing: 5444093

Grid Easting:

Northing:

Purpose: Test for northern strike extension to TR07-3 Minnie Moore zone, beneath Ei sill

Azimuth: 270

Dip: -50

Depth: 197.18 m 647'

Elevation: 1098 m

Dip Test: none

Started: Oct 29/07

Completed: Oct 31/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Core :NQ2

Note: All angles listed in log are with respect to core axis.

| DOMINANT ROCK TYPE |        |             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te    |
|--------------------|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| From (m)           | To (m) | Lithology   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM   |
| 0.00               | 3.05   | Casing      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 3.05               | 6.35   | Ei2         | Typical Ei2. Massive dark grey weakly magnetic bi-px-fsp porphyritic, medium grained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 6.35               | 28.75  | Ei1 (a & b) | 6.35 - 12.0 Typical fresh pink Kspar megacrystic fine grained, non-mag Ei1a dyke. Upper contact has 15 cm chilled margin, with intrusive contact at 45°. This dyke cuts Ei2 above and is cut by later Ei1b intrusive below. Lower contact is very irregular, at 0-20°/                                                                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 12.0 - 28.75 Ei1b. Fresh, pinkish-brown, medium grained, fsp (plag + Kspar) - biotite - px syenite. Generally moderately magnetic. Has 1 m dark grey chilled margin at upper contact, with 10% fine px xtals and 5% biotite. If saw this without being part of thicker unit, would mistake this for earlier chilled Ei2 dyke.                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 28.75              | 29.56  | FAULT ZONE  | Gouge + broken core + 35 cm fng Ei1 Kspar-biotite phyric chilled dyke. Fault zone at 70°, at faulted contact between Ei1b above and Ei2 below (neither intrusive has a chilled margin adjacent to the fault zone).                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 29.56              | 51.67  | Ei2         | Typical dark grey med grained weak-mod magnetic fresh massive fsp-px-bi phyric.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 50.6 - 51.67 fine grained dark grey chilled margin. Sharp but irregular contact at 51.67 m, at 10-20°.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 51.67              | 122.90 | Trbs        | Pale grey-green fine grained to aphanitic siltstone or volcanic siltstone. Hard/siliceous, mod-str calcareous. Can be finely bedded with alternating finer/coarser grained and paler/darker mm to cm scale beds, or can be more massive fine grained to aphanitic siltstone. Contains narrow pale grey massive limestone interbeds. Commonly mottled with pervasive calc-silicate (and/or albite?) alteration (with preferential alteration of some beds) and with narrow chl-sericite &/or biotite? (dark brown, aphanitic) alteration selvages to chl-py hairline vnlts. Avg 2% py throughout. Minor late cc vnlts and gash filling. Common chl fractures. | 12391    | 51.67    | 54.00  | 2.33         | 152 | 4   | 57  | 11  | 71  | 34  | 0.4 | <5  | 0.7 | <0.02 |
|                    |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12392    | 54.00    | 57.00  | 3.00         | 218 | 23  | 64  | 12  | 112 | 197 | 1.0 | <5  | 0.9 | 0.08  |
|                    |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12393    | 57.00    | 60.00  | 3.00         | 240 | 22  | 35  | 6   | 29  | 119 | 1.1 | <5  | 0.6 | 0.06  |
|                    |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12394    | 60.00    | 63.00  | 3.00         | 119 | 54  | 37  | 4   | 45  | 234 | 0.8 | <5  | 0.6 | 0.05  |
|                    |        |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12395    | 63.00    | 64.95  | 1.95         | 159 | 6   | 73  | 4   | 43  | 116 | 1.2 | <5  | 1.0 | 0.06  |
|                    |        |             | 51.67 - 57.0 finely bedded with bedding at low angle to core axis (0-30°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 52.6 - 53.8 dark grey fng Ei2 dyke at 80°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 54.6 4 cm limestone interbed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 56.05 4 cm limestone interbed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 57.0 - 62.0 massive to coarsely bedded, fine grained to aphanitic siltstone as described above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 59.8 - 60.0 10 cm pale grey massive limestone interbed at 10°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |             | 62.0 - 64.95 Back into finely bedded unit as in 51.67 - 57.0. Unit is slightly coarser grained than above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |       |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                        | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb    | Hg  | Se   | Te    |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|-------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                    | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM   | PPB | PPM  | PPM   |
|                    |        |           | (possible coarsening down hole?)                                                                                                                                                                                                                                                                                   |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 64.95 - 69.18 Typical dark grey mod mag bio-fsp-px phyrlic Ei2 dyke with sharp intrusive upper and lower contacts with chilled margins, at 45°                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 69.18 - 81.37 Fine grained, mod calcareous siltstone, mod to coarsely bedded with well preserved bedding at 20°. Hard siliceous unit. Mottled pale green-grey-buff colour with moderate pervasive calc-silicate or albite? alteration +irregular patches of fine grained dark breen alteration - may be px skarn?. | 12396    | 69.18    | 72.00  | 2.82         | 92      | 3   | 57  | 2    | 32       | 35   | 1.3   | <5  | 0.9  | 0.02  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12397    | 72.00    | 75.00  | 3.00         | 159     | 6   | 70  | 4    | 44       | 71   | 1.9   | <5  | 1.0  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12398    | 75.00    | 78.00  | 3.00         | 148     | 6   | 51  | 4    | 49       | 159  | 2.5   | <5  | 0.8  | 0.05  |
|                    |        |           | Alteration is preferentially in finer grained beds. Minor hairline chl-py vnlt and cc vnlt. Common chl fractures +/- slickensides. 2-5% py overall - dissem, as py vnlt +/- chl and rare irreg fng semi-massive patches to 2 cm.                                                                                   | 12399    | 78.00    | 81.37  | 3.37         | 55      | 2   | 4   | 24   | 68       | 10   | 0.3   | <5  | <0.1 | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12400    | BLANK    |        |              | 162     | 3   | 51  | 4    | 52       | 95   | 2.3   | <5  | 1.1  | 0.02  |
|                    |        |           | 72.4 m slickensides on fract at 40°                                                                                                                                                                                                                                                                                |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 75.85 m slickensides on fract at 15°                                                                                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 75.0 m slickensides on fract at 30°                                                                                                                                                                                                                                                                                |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 80.0 m 1 cm gouge filled fract at 45°                                                                                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 81.1 m 5 cm massive cc vein at 75°                                                                                                                                                                                                                                                                                 |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 81.37 - 86.6 m Aphanitic, v hard, siliceous crackled and bx'd zone. Mottled and banded buff to grey to brown colour. Pervasive silic + potassic/albite? and biotite alt'n?                                                                                                                                         | 12401    | 81.37    | 82.45  | 1.08         | 342     | 42  | 57  | 11   | 93       | 1495 | 7.7   | 7   | 1.3  | 0.10  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12402    | 82.45    | 82.65  | 0.20         | 104     | 9   | 16  | 8    | 21       | 40   | 1.9   | <5  | 0.5  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12403    | 82.65    | 83.70  | 1.05         | 337     | 29  | 43  | 13   | 95       | 439  | 3.3   | 7   | 1.0  | 0.03  |
|                    |        |           | 82.45 - 82.65 Massive qtz-cc bx vn/zone at 65°, with 15% pale orange-buff alt'd irregular wall rx frags, 15% greenish talc or clay alt'd frags and 5% diss py.                                                                                                                                                     | 12404    | 83.70    | 84.90  | 1.20         | 161     | 8   | 45  | 7    | 70       | 140  | 4.8   | <5  | 1.2  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12405    | 84.90    | 86.60  | 1.70         | 546     | 12  | 79  | 57   | 81       | 95   | 3.6   | <5  | 1.5  | 0.18  |
|                    |        |           | 82.65 - 82.90 Very soft, tan-buff coloured, aphanitic strong clay alt'd sed with 2% py - diss and vnlt.                                                                                                                                                                                                            |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 82.90 - 83.70 Low angle bx zone with qtz-carb vning + clay gouge + tect bx'd albite?/silic'd? Trbs, at 20°. 2-5% py - diss and fine grained semi-massive py in bx matrix.                                                                                                                                          |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | @85.1 m 1-2 cm irreg qtz-cc-py vn at 45°. Fine grained semi-massive py in vn, to 65%                                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 86.6 - 96.7 Fine grained, grey-green, mod-str calcareous siltstone as above. Massive to coarsely bedded, with bedding at 20°. Less altered than above. Minor hairline chl-py vnlt.                                                                                                                                 | 12406    | 86.60    | 89.60  | 3.00         | 141     | 5   | 37  | 4    | 30       | 90   | 1.6   | <5  | 0.8  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12407    | 89.60    | 92.60  | 3.00         | 99      | 9   | 47  | 4    | 27       | 121  | 1.5   | <5  | 0.8  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12408    | 92.60    | 95.60  | 3.00         | 59      | 4   | 29  | 3    | 34       | 65   | 1.1   | <5  | 0.5  | <0.02 |
|                    |        |           | 96.7 - 101.25 Ei1a and Ei1b dykes.                                                                                                                                                                                                                                                                                 | 12409    | 95.60    | 96.70  | 1.10         | 66      | 14  | 13  | 6    | 51       | 46   | 1.7   | 6   | 0.3  | 0.06  |
|                    |        |           | 96.7 - 98.2 Muddy grey chilled Ei1a sy with Kspar phenos. Chilled upper and lower contacts. Upper at 45°, lower at 70°                                                                                                                                                                                             | 12410    | STD SE-2 |        |              | >100000 | 193 | 469 | 9569 | >10000.0 | 4357 | 101.7 | 840 | 21.3 | 0.07  |
|                    |        |           | 98.2 - 99.0 Dark grey str calc mottled (volc?) sediment between Ei1 dykes                                                                                                                                                                                                                                          |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 99.0 - 101.25 Typical pinkish brown medium grained Ei1b dyke. Kspar + plag + px + biotite phyrlic syenite, weakly magnetic, with chilled margins at contacts. Upper contact is irregular at 50°, lower contact is sharp, with 1 cm qtz-cc vn, at 45°.                                                              |          |          |        |              |         |     |     |      |          |      |       |     |      |       |
|                    |        |           | 101.25 - 116.12 Fine grained grey-green mod-str calcareous siliceous (hard) siltstone as in 86.6 - 96.7m. Massive to coarsely bedded with bedding at 50°. Contains several grey limestone or limy sst interbeds to 30 cm. Minor hairline chl-py vnlt.                                                              | 12411    | 101.25   | 104.25 | 3.00         | 124     | 2   | 39  | 4    | 27       | 26   | 1.5   | <5  | 1.0  | 0.05  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12412    | 104.25   | 107.25 | 3.00         | 104     | 8   | 34  | 5    | 28       | 26   | 1.6   | <5  | 0.9  | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                    | 12413    | 107.25   | 110.25 | 3.00         | 173     | 8   | 53  | 5    | 58       | 95   | 1.8   | <5  | 0.6  | 0.05  |
|                    |        |           | 107.5 - 116.12 Aphanitic, v hard, mottled buff-green calc-silicate or albite? alt'd with bleached alt'n                                                                                                                                                                                                            | 12414    | 110.25   | 113.25 | 3.00         | 172     | 7   | 33  | 6    | 60       | 179  | 2.6   | <5  | 0.6  | 0.04  |



| DOMINANT ROCK TYPE |        |                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE   |             |           |                 | Ag<br>PPB | Au<br>PPB | Cu<br>PPM | Pb<br>PPM | Zn<br>PPM | As<br>PPM | Sb<br>PPM | Hg<br>PPB | Se<br>PPM | Te<br>PPM |
|--------------------|--------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample # | From<br>(m) | To<br>(m) | Interval<br>(m) |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | selveges to chl-py vnlt. 2-3% py.                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12415    | 113.25      | 116.12    | 2.87            | 187       | 8         | 42        | 8         | 55        | 79        | 2.4       | <5        | 0.5       | 0.05      |
|                    |        |                                    | 110.6 - 110.9 crackle bx with fng py filling bx matrix. 10% py.                                                                                                                                                                                                                                                                                                                                                                                                             |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 116.12 - 117.94 E1a dyke, fine grained muddy (chilled) Kspar megacrystic syenite dyke with intrusive conacts.                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 117.94 - 122.90 Massive aphanitic v hard, variably weak-moderately calcareous, pervasive albite and/or calc-silicate (chl-px) alt'd (and/or brown biotite?) Trbs as above with 2% fine py.                                                                                                                                                                                                                                                                                  | 12416    | 117.94      | 120.94    | 3.00            | 374       | 5         | 57        | 28        | 107       | 54        | 1.9       | <5        | 0.6       | 0.05      |
|                    |        |                                    | (Note this entire section 51.6 - 122.9 m, looks very much like the alt'd volc siltstone at IXL)                                                                                                                                                                                                                                                                                                                                                                             | 12417    | 120.94      | 122.90    | 1.96            | 553       | 25        | 59        | 50        | 155       | 139       | 0.9       | 8         | 0.6       | 0.08      |
|                    |        |                                    | 122.38 - 122.90 Tectonic bx + minor fault gouge, 5-10% py as fine grained semi-massive py in bx matrix. Faulted lower contact to E1a below.                                                                                                                                                                                                                                                                                                                                 |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
| 122.90             | 127.75 | E1a                                | Pinkish brown Kspar megacrystic-bi phyrlic syenite. Fine grained and weakly magnetite (where unalt'd).                                                                                                                                                                                                                                                                                                                                                                      |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | @ 122.90 Upper contact is faulted along original intrusive contact. 0.5 m chilled zone adjacent to upper contact. Contact is very broken - can't tell orientation.                                                                                                                                                                                                                                                                                                          |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | @ 127.75 Lower contact has 20 cm zone of silic'd tectonic bx with 5% diss py                                                                                                                                                                                                                                                                                                                                                                                                |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12418    | 126.75      | 127.75    | 1.00            | 123       | 13        | 22        | 24        | 83        | 14        | 0.5       | <5        | 0.2       | 0.03      |
| 127.75             | 143.50 | <b>FAULT ZONE</b>                  | Pale grey intensely pervasive argillic altered (and locally silic'd) intrusive. Protolith is difficult to tell. In places there are relic fsps visible that texturally look like E1a or Trmd, but other places the grain size is much finer? Could include some Brooklyn rock?? 1-2% diss py throughout (after alt'n of mafics). Local massive pale green-white soft soapy talc or clay veins. This unit is cut by relatively fresh E1a dykes, with good intrusive texture. | 12419    | 127.75      | 128.80    | 1.05            | 268       | 11        | 64        | 30        | 97        | 110       | 0.7       | <5        | 0.7       | 0.04      |
|                    |        | Intense argillic alt'd zone in E1? |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12420    | BLANK       |           |                 | 52        | 6         | 4         | 34        | 75        | 17        | 0.5       | 6         | 0.1       | <0.02     |
|                    |        | and/or Trmd                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12421    | 128.80      | 130.10    | 1.30            | 363       | 11        | 69        | 30        | 171       | 56        | 0.5       | 10        | 0.6       | 0.02      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12422    | 130.10      | 131.45    | 1.35            | 1111      | 17        | 74        | 378       | 2107      | 54        | 0.4       | 69        | 1.3       | 0.36      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12423    | 131.45      | 133.05    | 1.60            | 92        | 3         | 19        | 28        | 82        | 6         | 0.2       | <5        | 0.3       | 0.03      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12424    | 133.05      | 134.50    | 1.45            | 387       | 15        | 38        | 32        | 93        | 41        | 0.4       | <5        | 0.7       | 0.24      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12425    | 134.50      | 136.00    | 1.50            | 177       | 4         | 60        | 9         | 43        | 110       | 0.4       | <5        | 0.6       | 0.08      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12426    | 136.00      | 138.00    | 2.00            | 177       | 7         | 38        | 8         | 49        | 30        | 0.5       | <5        | 0.6       | 1.75      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12427    | 138.00      | 139.28    | 1.28            | 167       | 3         | 62        | 9         | 52        | 34        | 0.9       | 5         | 0.8       | 0.04      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12428    | 139.28      | 141.28    | 2.00            | 87        | 3         | 34        | 10        | 42        | 20        | 0.3       | 5         | 0.4       | 0.02      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12429    | 141.28      | 143.50    | 2.22            | 142       | 4         | 21        | 9         | 47        | 30        | 0.6       | <5        | 0.5       | 0.04      |
|                    |        |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12430    | STD SE-2    |           |                 | >100000   | 184       | 475       | 9668      | >10000.0  | 4296      | 99.5      | 792       | 22.5      | 0.07      |
|                    |        |                                    | gmass (+/- around relic fsp phenos) that give the rock a "dendritic" appearance. This texture becomes very pronounced locally.                                                                                                                                                                                                                                                                                                                                              |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 129.80 - 130.0 20 cm intense argillic alt'n zone at 35-40°                                                                                                                                                                                                                                                                                                                                                                                                                  |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | @ 130.45 slickensides on clay filled fracture at 45°                                                                                                                                                                                                                                                                                                                                                                                                                        |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 131.45 - 133.05 Str pervasive argillic alt'n, mod grey colour with relic fsp megacrysts (ie. alt'd E1a dyke).                                                                                                                                                                                                                                                                                                                                                               |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | @ 132.2 10 cm intense argillic alt'd, tect bx'd zone at 40° + 1-2 cm massive qtz-cc vn + slickensides on fracture.                                                                                                                                                                                                                                                                                                                                                          |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 133.05 - 143.50 Pale grey-green, mod perv argillic alt'n + local silic'n. Relic fsp phyrlic texture. Common "dendritic" texture from fine grained py (+seric, chl?). 5% py - diss + hairline py-qtz vnlt + "dendritic" py-chl-seric.                                                                                                                                                                                                                                        |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 133.05 - 138.0 5% mm-cm scale qtz-carb vnlt with minor py + tr black sulfide?, commonly at 60°                                                                                                                                                                                                                                                                                                                                                                              |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |
|                    |        |                                    | 138.0 - 139.28 Med grey fsp-hnbl'd? porph dyke, not argillic alt'd as above. Looks like later E1b dyke cutting alt'd zone. Faulted upper contact with slickensides and 2 cm gouge zone at 50°. Mod hard,                                                                                                                                                                                                                                                                    |          |             |           |                 |           |           |           |           |           |           |           |           |           |           |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
|                    |        |           | weak-mod perv silic'n, 5% py - diss after hnbld, hairline chl-py vnlt.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 140.7 - 141.1 Fault zone at 30-40°. Clay gouge and tectonic bx.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | @ 143.5 m contact is a rapid change, not a sharp contact, to relatively fresh fsp-hnbld porph below. It seems likely that this fsp-hnbld porph is the protolith thru much of the alt'd zone.                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 143.50             | 146.15 | Trmd?     | Medium grey, good fsp-hnbld porphyry, fine to medium grained intrusive. Massive, fresh to weak pervasive silic'n with blurred textures. Moderately calcareous.                                                                                                                                                                                                                                                                                                                                                              | 12431    | 143.50   | 146.15 | 2.65         | 118 | 4   | 29  | 11  | 60  | 24  | 0.5 | 6   | 0.4  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 146.15             | 197.18 | Trbv      | Thick section of fine grained dark grey-green, mod calcareous, non-mag, massive fine grained to fsp phyric greenstone. Locally this grades to slightly coarser grained fsp-hnbld phyric volc or sub-volc intrusive (+/- blurred textures) and occasionally it is cut by fresh pale grey-white fsp-hnbld phyric dykes that appear to be of similar composition. Generally it is a massive homogeneous unaltered unit but it does have numerous narrow bleached argillic altered intervals with minor qtz-cc vning, as noted. |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | Minor local med-pale grey bleached +/- weak-mod argillic alt'd with saus. fsp and mod soft alt'd gmass, typically with gradational contacts to unaltered greenstone, ie.                                                                                                                                                                                                                                                                                                                                                    | 12432    | 158.00   | 160.00 | 2.00         | 43  | 2   | 4   | 5   | 50  | 10  | 0.3 | 7   | <0.1 | 0.04  |
|                    |        |           | 158.6 - 158.9 m bleached and altered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12433    | 160.00   | 162.00 | 2.00         | 49  | 2   | 6   | 6   | 46  | 11  | 0.3 | <5  | 0.1  | 0.04  |
|                    |        |           | 159.95 - 160.15 m bleached hnbld phyric dyke at 60° with 5% hairline to 6 mm qtz-cc vnlt at 60°                                                                                                                                                                                                                                                                                                                                                                                                                             | 12434    | 162.00   | 163.80 | 1.80         | 26  | 1   | 2   | 4   | 68  | 7   | 1.5 | <5  | 0.1  | 0.03  |
|                    |        |           | 161.5 - 161.7 m bleached and altered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12435    | 163.80   | 164.30 | 0.50         | 64  | 2   | 3   | 9   | 35  | 11  | 0.5 | 8   | 0.2  | 0.04  |
|                    |        |           | 163.8 - 164.3 m bleached zone contains 10% mm-cm scale qtz-cc vnlt, dom at 60°                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12436    | 164.30   | 166.00 | 1.70         | 45  | 2   | 4   | 5   | 57  | 10  | 0.2 | 5   | <0.1 | 0.05  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12437    | 166.00   | 168.00 | 2.00         | 51  | 3   | 7   | 7   | 66  | 18  | 0.3 | <5  | 0.2  | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12438    | 168.00   | 169.80 | 1.80         | 42  | 2   | 7   | 4   | 54  | 22  | 0.2 | <5  | 0.1  | 0.02  |
|                    |        |           | 169.8 - 174.95 Mod-str perv chl and argillic alt'n. Variably dark grey-green or pale grey-buff. Very soft. Relic fsp phenos are saus. Interval contains ~5% mm-1cm cc +/- qtz vnlt and bx vnlt, dom at 65°, 2% diss py.                                                                                                                                                                                                                                                                                                     | 12439    | 169.80   | 171.80 | 2.00         | 147 | 5   | 21  | 9   | 67  | 32  | 0.2 | <5  | 0.5  | 0.20  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12440    | BLANK    |        |              | 31  | 1   | 2   | 22  | 70  | 8   | 0.2 | <5  | 0.1  | <0.02 |
|                    |        |           | 171.80 - 171.90 10 cm massive pale grey silic'd bx zone at 70°, cut by qtz-cc vnlt. 1% py + fine black sulfides.                                                                                                                                                                                                                                                                                                                                                                                                            | 12441    | 171.80   | 173.80 | 2.00         | 99  | 4   | 9   | 11  | 59  | 12  | 0.3 | <5  | 0.2  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12442    | 173.80   | 174.95 | 1.15         | 74  | 2   | 20  | 7   | 57  | 6   | 0.3 | <5  | 0.2  | 0.02  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12443    | 174.95   | 176.95 | 2.00         | 71  | 3   | 8   | 5   | 58  | 11  | 0.3 | <5  | 0.2  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12444    | 176.95   | 178.95 | 2.00         | 65  | 3   | 6   | 5   | 55  | 11  | 0.3 | <5  | 0.2  | 0.03  |
|                    |        |           | 177.7 - 178.8 Bleached mod perv argillic alt'd zone with 8 cm qtz-cc bx vein.                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 184.5 - 185.15 weakly mag fine grained bi-fsp phyric Ei dyke with sharp chilled contacts at 60-70°                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 194.3 - 194.7 weak ep alt'n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 197.18             | EOH    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |     |     |     |     |     |     |     |     |      |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 1.60     | 2.13        | 75       |
| 1     | 5.18       | 8.23     | 3.00     | 3.05        | 98       |
| 1/2   | 8.23       | 11.28    | 3.05     | 3.05        | 100      |
| 2     | 11.28      | 14.32    | 3.04     | 3.04        | 100      |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3/4   | 17.37      | 20.42    | 3.05     | 3.05        | 100      |
| 4     | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4/5   | 23.47      | 26.51    | 3.05     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 2.93     | 3.05        | 96       |
| 5/6   | 29.56      | 32.61    | 2.75     | 3.05        | 90       |
| 6/7   | 32.61      | 35.65    | 3.05     | 3.04        | 100      |
| 7     | 35.65      | 38.70    | 3.04     | 3.05        | 100      |
| 7/8   | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 8     | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8/9   | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 9     | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9/10  | 50.90      | 53.94    | 2.88     | 3.04        | 95       |
| 10    | 53.94      | 56.99    | 3.00     | 3.05        | 98       |
| 11    | 56.99      | 60.04    | 2.94     | 3.05        | 96       |
| 11/12 | 60.04      | 63.09    | 2.95     | 3.05        | 97       |
| 12    | 63.09      | 66.13    | 2.91     | 3.04        | 96       |
| 12/13 | 66.13      | 69.18    | 2.88     | 3.05        | 94       |
| 13    | 69.18      | 72.23    | 3.05     | 3.05        | 100      |
| 13/14 | 72.23      | 75.28    | 2.91     | 3.05        | 95       |
| 14    | 75.28      | 78.32    | 2.85     | 3.04        | 94       |
| 14/15 | 78.32      | 81.37    | 2.85     | 3.05        | 93       |
| 15/16 | 81.37      | 84.42    | 2.85     | 3.05        | 93       |
| 16    | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16/17 | 87.47      | 90.51    | 3.05     | 3.04        | 100      |
| 17    | 90.51      | 93.56    | 2.90     | 3.05        | 95       |
| 17/18 | 93.56      | 96.60    | 3.00     | 3.04        | 99       |
| 18    | 96.60      | 99.65    | 3.05     | 3.05        | 100      |
| 18/19 | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 19    | 102.70     | 105.75   | 3.05     | 3.05        | 100      |
| 19/20 | 105.75     | 108.80   | 3.05     | 3.05        | 100      |
| 20/21 | 108.80     | 111.85   | 3.05     | 3.05        | 100      |
| 21    | 111.85     | 114.90   | 3.05     | 3.05        | 100      |
| 21/22 | 114.90     | 117.94   | 3.04     | 3.04        | 100      |
| 22    | 117.94     | 120.99   | 3.00     | 3.05        | 98       |
| 22/23 | 120.99     | 124.04   | 2.90     | 3.05        | 95       |
| 23    | 124.04     | 127.09   | 3.05     | 3.05        | 100      |
| 23/24 | 127.09     | 130.13   | 2.78     | 3.04        | 91       |
| 24/25 | 130.13     | 133.18   | 2.94     | 3.05        | 96       |
| 25    | 133.18     | 136.23   | 3.05     | 3.05        | 100      |
| 25/26 | 136.23     | 139.28   | 2.85     | 3.05        | 93       |
| 26    | 139.28     | 142.32   | 3.04     | 3.04        | 100      |
| 26/27 | 142.32     | 145.37   | 3.05     | 3.05        | 100      |
| 27    | 145.37     | 148.42   | 3.05     | 3.05        | 100      |
| 27/28 | 148.42     | 151.47   | 3.05     | 3.05        | 100      |
| 28    | 151.47     | 154.51   | 3.04     | 3.04        | 100      |
| 28/29 | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 29    | 157.56     | 160.61   | 3.05     | 3.05        | 100      |
| 30    | 160.61     | 163.66   | 3.05     | 3.05        | 100      |
| 30/31 | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 31    | 166.70     | 169.75   | 3.05     | 3.05        | 100      |
| 31/32 | 169.75     | 172.80   | 3.05     | 3.05        | 100      |
| 32    | 172.80     | 175.85   | 3.05     | 3.05        | 100      |
| 32/33 | 175.85     | 178.90   | 3.05     | 3.05        | 100      |
| 33    | 178.90     | 181.94   | 3.04     | 3.04        | 100      |
| 33/34 | 181.94     | 184.99   | 3.05     | 3.05        | 100      |
| 34    | 184.99     | 188.04   | 3.05     | 3.05        | 100      |
| 34/35 | 188.04     | 191.09   | 3.05     | 3.05        | 100      |
| 35    | 191.09     | 194.13   | 3.04     | 3.04        | 100      |
| 36    | 194.13     | 197.18   | 3.05     | 3.05        | 100      |
|       | 197.18     | EOH      |          |             |          |

PROPERTY: Minnie Moore

HOLE: MM 07-5

Collar UTM Easting: 387410 Nad 83

Northing: 5444100

Grid Easting:

Northing:

Purpose: Attempt to intersect Minnie Moore zone under Ei2 sill, drilling from west.

Azimuth: 90

Dip: -50

Depth: 172.8 m 567'

Elevation: 1112 m

Dip Test: none

Started: Oct 31/07

Completed: Nov 1/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis.

Core: NQ2

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 3.05               | 66.70  | Ei2       | Typical massive dark grey, medium grained, mod mag, fresh bi-fsp-px monzodior.                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 21.70 - 24.25 Typical pink fresh fng Kspar-bio phyric weakly magnetic Ei1a svenite dyke with chilled margins, cuts Ei2 monzodio. Sharp but irreg contacts at ~60-70°.                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 24.55 - 28.65 Fresh pink Ei1a svenite dyke with chilled margins, as in 21.7 - 24.25, but non-mag. Upper contact at 90°. Lower contact at 70°.                                                                                                                                                                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 35.66 - 38.50 Fresh pink Ei1a svenite dyke with chilled margins, as above. Non mag. Upper contact at 80°, lower at 50°.                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 40.90 Fault zone. 10 cm zone of gouge + intense argillic alt'n.                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 40.90 - 43.57 Fresh pink strongly magnetic Kspar-bi-px phyric Ei1b dyke. Lower contact is sharp chilled intrusive contact at 50°. Upper contact is faulted with 10 cm zone of gouge + intense argillic alteration at 70°. Another 3 cm gouge zone at 90°, at 41.50 m.                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 45.07 - 50.95 Ei1a pink Kspar megacrystic svenite with sharp chilled intrusive contacts, upper at 70° and lower at 50°.                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 59.3 - 59.6 very weak bleaching with pervasive chl-clay (propylitic) alteration.                                                                                                                                                                                                                                                                                                                                                                                                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 61.3 - 62.15 Moderately bleached, weak pervasive argillic altered zone in Ei2, with 7 cm true width zone of massive white quartz (+lesser cc) veining and bx veining at 45°, from 61.8 - 62.02 m.                                                                                                                                                                                                                                                                                                           | 12445    | 61.30    | 61.80  | 0.50         | 94      | 1   | 31  | 17   | 73       | 9    | 0.5  | <5  | 0.2  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12446    | 61.80    | 62.02  | 0.22         | 54      | 1   | 16  | 17   | 42       | 12   | 0.8  | <5  | 0.2  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12447    | 62.02    | 62.52  | 0.50         | 94      | 2   | 29  | 16   | 78       | 14   | 0.5  | <5  | 0.2  | <0.02 |
|                    |        |           | @ 66.7m contact is sharp intrusive contact with chilled margin, at 40°.                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 66.70              | 90.36  | Trbs      | Pale grey-green fine grained to aphanitic siltstone to volcanic siltstone, as in MM07-4, 51.6 - 122.90 m. Hard, siliceous, typically mod-str calcareous but may be non-calc in > siliceous intervals. May be finely bedded or may be massive to coarsely bedded. Contains narrow grey limestone or limey sst interbeds. Commonly mottled with pervasive calc-silicate &/or albite? alteration. Common hairline chl-py vnlt. 2-3% py throughout. Common late cc vnlt and minor mm scale qtz vnlt +/- cc, py. | 12448    | 66.70    | 68.70  | 2.00         | 157     | 8   | 33  | 5    | 50       | 65   | 0.9  | <5  | 0.7  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12449    | 68.70    | 70.75  | 2.05         | 988     | 27  | 65  | 9    | 131      | 153  | 1.4  | <5  | 1.5  | 0.22  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12450    | STD SE-2 |        |              | >100000 | 158 | 434 | 8935 | >10000.0 | 4086 | 87.0 | 744 | 20.6 | 0.06  |
|                    |        |           | 67.5 - 68.6 strong pervasive silicification                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                    | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |           | @ 69.0 well developed fine bedding at 50°                                                                                                                                                                                                                                                                                                                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 69.55 is 1 cm zone with 50% white irreg qtz bx vnls at 55°                                                                                                                                                                                                                                                                                                                                                   |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 70.75 - 75.75 Pale green-grey aphanitic siltstone with good bedding visible. Darker grey bands << calcareous than paler grey-green bands. Mod-str pervasive silic'n.                                                                                                                                                                                                                                           | 12451    | 70.75    | 72.55  | 1.80         | 2189    | 42  | 30  | 11   | 35       | 185  | 2.2  | <5  | 1.0  | 0.24  |
|                    |        |           | 72.55 - 72.90 Zone of veining. Interval has 20% cm scale white-grey qtz bx vns, dom at 45° but also at 0°. Quartz veins have frags of wall rx and minor py.                                                                                                                                                                                                                                                    | 12452    | 72.55    | 72.90  | 0.35         | 7281    | 41  | 13  | 41   | 54       | 131  | 1.5  | <5  | 1.3  | 1.60  |
|                    |        |           | 73.75 - 82.70 Very strongly silic'd (or cherty) limestone and calc siltstone. ~60% of this interval is massive grey pervasive silic'd limestone (str calc, v hard) with 2% fine diss py, 40% of interval is mottled pale grey-green-buff-brown silic'd or albite alt'd? siltstone but by a network of hairline chl-py vnls. 2% py - in these vnls and dissem. Interval has minor qtz +/- cc + py vnls to 1 cm. | 12453    | 72.90    | 73.75  | 0.85         | 501     | 29  | 35  | 6    | 67       | 163  | 1.6  | <5  | 0.6  | 0.15  |
|                    |        |           | 82.70 - 88.20 Typical fresh massive mod mag Ei2 px-bi-fsp dyke with chilled intrusive contacts. Upper at 60°, lower at 90°.                                                                                                                                                                                                                                                                                    | 12454    | 73.75    | 76.00  | 2.25         | 142     | 9   | 55  | 5    | 101      | 95   | 1.1  | <5  | 1.0  | 0.07  |
|                    |        |           | 88.20 - 90.36 Str silic'd/cherty &/or albite alt'd Trbs and limestone, as in 74.75 - 82.70.                                                                                                                                                                                                                                                                                                                    | 12455    | 76.00    | 78.00  | 2.00         | 209     | 7   | 40  | 5    | 143      | 99   | 1.5  | <5  | 1.0  | 0.03  |
|                    |        |           | @ 90.36 m is sharp but irregular contact at 50°.                                                                                                                                                                                                                                                                                                                                                               | 12456    | 78.00    | 80.00  | 2.00         | 108     | 14  | 54  | 3    | 46       | 255  | 0.9  | <5  | 1.3  | 0.05  |
|                    |        |           | 90.36 - 96.70 Trbl(jb) "Jelly bean conglomerate". Finer grained than type example at Sylvester K. Matrix supported with 40-60% 1-8 mm subround grey chert pebbles/grains in a paler grey limestone groundmass. Local pervasive silic'n. Minor interbeds of ep alt'd siltstone. 1-2% py.                                                                                                                        | 12457    | 80.00    | 82.70  | 2.70         | 132     | 11  | 69  | 4    | 42       | 166  | 1.0  | <5  | 1.7  | 0.06  |
|                    |        |           | Gradational contact from ~ 94.5 - 96.7, to lst bx below.                                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 96.70 - 122.91 Trbl (bx) Pale grey, coarse clast-supported "mosaic" type limestone breccia with minor interals of fine grained jelly bean conglomerate (as above). 95% lst frags, 5-30 cm, with hairline chl-py vnls between frags and locally greenish calcareous siltstone infilling spaces between bx frags. Common cc vnls. Minor mm-cm scale white qtz-cc vnls. Tr-1% py throughout.                      | 12458    | 88.20    | 90.36  | 2.16         | 243     | 4   | 37  | 8    | 131      | 65   | 2.4  | 7   | 3.1  | 0.04  |
|                    |        |           | @ 103 m start to see weak pinkish tinge to limestone frags and pinkish carbonate in interstices between bx frags.                                                                                                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 105.10 THIN SECTION                                                                                                                                                                                                                                                                                                                                                                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 103.0 - 107.0 Mod-str silic'd/calc-silicate alt'd lst bx. Strong fizz, very hard. Mottled grey-pinkish-pale green colour with local grey intensely silic'd sections.                                                                                                                                                                                                                                           | 12459    | 90.36    | 92.40  | 2.04         | 113     | 2   | 14  | 4    | 22       | 23   | 0.5  | <5  | 1.2  | 0.03  |
|                    |        |           | 107.0 - 120.68 MINNIE MOORE ZONE                                                                                                                                                                                                                                                                                                                                                                               | 12460    | BLANK    |        |              | 57      | 20  | 3   | 22   | 65       | 14   | 0.3  | <5  | <0.1 | <0.02 |
|                    |        |           | Zone of quartz flooding/veining and tectonic brecciation in str silic'd lst bx host. Gradational contacts to zone. Choose top and bottom of zone on basis of density of later white qtz-cc vnls cutting silic'd limestone. Strongest part of zone is 111.8 - 114.5m & 115.7 - 118.0 m.                                                                                                                         | 12461    | 92.40    | 94.40  | 2.00         | 114     | 1   | 21  | 4    | 28       | 6    | 0.4  | <5  | 1.4  | 0.02  |
|                    |        |           | Limestone bx host is pale grey, massive, fine grained and variably weak-intensely silicified. Intensely silicified sections are darker grey and aphanitic. Silicified limestone is cut by a                                                                                                                                                                                                                    | 12462    | 94.40    | 96.70  | 2.30         | 78      | 1   | 18  | 2    | 17       | 8    | 0.3  | <5  | 1.0  | 0.04  |
|                    |        |           | 120.68 - 122.91 Trbl (bx) Pale grey, coarse clast-supported "mosaic" type limestone breccia with minor interals of fine grained jelly bean conglomerate (as above). 95% lst frags, 5-30 cm, with hairline chl-py vnls between frags and locally greenish calcareous siltstone infilling spaces between bx frags. Common cc vnls. Minor mm-cm scale white qtz-cc vnls. Tr-1% py throughout.                     | 12463    | 96.70    | 98.70  | 2.00         | 43      | 1   | 9   | 2    | 18       | 6    | 0.2  | <5  | 0.5  | 0.04  |
|                    |        |           | @ 103 m start to see weak pinkish tinge to limestone frags and pinkish carbonate in interstices between bx frags.                                                                                                                                                                                                                                                                                              | 12464    | 98.70    | 100.70 | 2.00         | 47      | 1   | 7   | 2    | 11       | 8    | 0.2  | <5  | 0.5  | 0.04  |
|                    |        |           | 103.0 - 107.0 Mod-str silic'd/calc-silicate alt'd lst bx. Strong fizz, very hard. Mottled grey-pinkish-pale green colour with local grey intensely silic'd sections.                                                                                                                                                                                                                                           | 12465    | 100.70   | 102.70 | 2.00         | 39      | 1   | 5   | 2    | 12       | 11   | 0.2  | <5  | 0.4  | 0.04  |
|                    |        |           | 107.0 - 120.68 MINNIE MOORE ZONE                                                                                                                                                                                                                                                                                                                                                                               | 12466    | 102.70   | 104.70 | 2.00         | 428     | 3   | 4   | 4    | 11       | 15   | 0.4  | 7   | 0.5  | 0.05  |
|                    |        |           | Zone of quartz flooding/veining and tectonic brecciation in str silic'd lst bx host. Gradational contacts to zone. Choose top and bottom of zone on basis of density of later white qtz-cc vnls cutting silic'd limestone. Strongest part of zone is 111.8 - 114.5m & 115.7 - 118.0 m.                                                                                                                         |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | Limestone bx host is pale grey, massive, fine grained and variably weak-intensely silicified. Intensely silicified sections are darker grey and aphanitic. Silicified limestone is cut by a                                                                                                                                                                                                                    | 12467    | 104.70   | 106.00 | 1.30         | 53      | 1   | 3   | 2    | 12       | 5    | 0.2  | <5  | 0.4  | 0.05  |
|                    |        |           | 120.68 - 122.91 Trbl (bx) Pale grey, coarse clast-supported "mosaic" type limestone breccia with minor interals of fine grained jelly bean conglomerate (as above). 95% lst frags, 5-30 cm, with hairline chl-py vnls between frags and locally greenish calcareous siltstone infilling spaces between bx frags. Common cc vnls. Minor mm-cm scale white qtz-cc vnls. Tr-1% py throughout.                     | 12468    | 106.00   | 107.00 | 1.00         | 88      | 1   | 4   | 2    | 11       | 8    | 0.2  | <5  | 0.3  | 0.08  |
|                    |        |           | Zone of quartz flooding/veining and tectonic brecciation in str silic'd lst bx host. Gradational contacts to zone. Choose top and bottom of zone on basis of density of later white qtz-cc vnls cutting silic'd limestone. Strongest part of zone is 111.8 - 114.5m & 115.7 - 118.0 m.                                                                                                                         | 12469    | 107.00   | 108.00 | 1.00         | 402     | 5   | 6   | 3    | 10       | 28   | 0.4  | 10  | 0.5  | 0.05  |
|                    |        |           | Limestone bx host is pale grey, massive, fine grained and variably weak-intensely silicified. Intensely silicified sections are darker grey and aphanitic. Silicified limestone is cut by a                                                                                                                                                                                                                    | 12470    | STD SE-2 |        |              | >100000 | 166 | 461 | 9003 | >10000.0 | 4177 | 90.0 | 735 | 21.3 | 0.03  |
|                    |        |           | 120.68 - 122.91 Trbl (bx) Pale grey, coarse clast-supported "mosaic" type limestone breccia with minor interals of fine grained jelly bean conglomerate (as above). 95% lst frags, 5-30 cm, with hairline chl-py vnls between frags and locally greenish calcareous siltstone infilling spaces between bx frags. Common cc vnls. Minor mm-cm scale white qtz-cc vnls. Tr-1% py throughout.                     | 12471    | 108.00   | 109.00 | 1.00         | 349     | 3   | 3   | 5    | 14       | 19   | 0.4  | 5   | 0.4  | 0.05  |
|                    |        |           | Zone of quartz flooding/veining and tectonic brecciation in str silic'd lst bx host. Gradational contacts to zone. Choose top and bottom of zone on basis of density of later white qtz-cc vnls cutting silic'd limestone. Strongest part of zone is 111.8 - 114.5m & 115.7 - 118.0 m.                                                                                                                         | 12472    | 109.00   | 110.00 | 1.00         | 945     | 13  | 4   | 29   | 31       | 81   | 0.8  | 10  | 0.8  | 0.10  |
|                    |        |           | Limestone bx host is pale grey, massive, fine grained and variably weak-intensely silicified. Intensely silicified sections are darker grey and aphanitic. Silicified limestone is cut by a                                                                                                                                                                                                                    | 12473    | 110.00   | 111.00 | 1.00         | 5519    | 9   | 6   | 31   | 27       | 114  | 1.5  | 11  | 0.9  | 0.04  |
|                    |        |           | 120.68 - 122.91 Trbl (bx) Pale grey, coarse clast-supported "mosaic" type limestone breccia with minor interals of fine grained jelly bean conglomerate (as above). 95% lst frags, 5-30 cm, with hairline chl-py vnls between frags and locally greenish calcareous siltstone infilling spaces between bx frags. Common cc vnls. Minor mm-cm scale white qtz-cc vnls. Tr-1% py throughout.                     | 12474    | 111.00   | 112.00 | 1.00         | 1150    | 9   | 2   | 17   | 20       | 31   | 0.9  | 12  | 0.4  | 0.07  |

| DOMINANT ROCK TYPE |        |                  | DESCRIPTION                                                                                           | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|------------------|-------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology        |                                                                                                       | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |                  | stockwork of very irregular later white-grey qtz (+carb) vnlt. Later qtz can also fill lst bx matrix  | 12475    | 112.00   | 113.00 | 1.00         | 35934   | 86  | 39  | 76   | 69       | 66   | 6.1  | 26  | 1.7  | 0.10  |
|                    |        |                  | interstices. Qtz vns have 2-5% py as very fine grained dusty dissem py and stringers, + very          | 12476    | 113.00   | 114.00 | 1.00         | 96021   | 286 | 142 | 194  | 321      | 91   | 18.2 | 92  | 3.4  | 0.34  |
|                    |        |                  | minor patchy fine grained black sulfides (poss tetrahedrite or sphal?). Possible trace v.g.           | 12477    | 114.00   | 115.00 | 1.00         | 6585    | 77  | 22  | 20   | 47       | 179  | 2.7  | 62  | 1.8  | 0.05  |
|                    |        |                  | These veins comprise ~ 10% of the entire interval, with >> veining (to 40%) from 111.8 - 114.5 m      | 12478    | 115.00   | 116.00 | 1.00         | 4141    | 40  | 25  | 22   | 31       | 240  | 3.2  | 47  | 1.9  | 0.03  |
|                    |        |                  | and to 60% from 115.7 - 118.0. Veins are generally tight and massive, but locally are vuggy with      | 12479    | 116.00   | 117.00 | 1.00         | 1240    | 11  | 6   | 21   | 49       | 95   | 0.7  | 11  | 0.7  | 0.27  |
|                    |        |                  | minor bladed cc druse. Also minor local green fluorite.                                               | 12480    | BLANK    |        |              | 130     | 1   | 3   | 21   | 67       | 10   | 0.3  | 7   | 0.1  | <0.02 |
|                    |        |                  |                                                                                                       | 12481    | 117.00   | 118.00 | 1.00         | 792     | 8   | 10  | 9    | 22       | 46   | 0.6  | 8   | 0.5  | 0.45  |
|                    |        |                  | 115.7 - 115.82 12 cm true width quartz bx vein at 45° to core axis (~ vertical dip to system?)        | 12482    | 118.00   | 119.00 | 1.00         | 796     | 10  | 12  | 17   | 41       | 56   | 0.8  | 16  | 0.7  | 0.45  |
|                    |        |                  |                                                                                                       | 12483    | 119.00   | 120.00 | 1.00         | 279     | 5   | 16  | 13   | 49       | 56   | 0.7  | 19  | 0.5  | 0.46  |
|                    |        |                  | 117.6 - 118.35 Later fault. Tectonic bx'd slic'd host and fault gouge. Can't tell orientation.        | 12484    | 120.00   | 120.68 | 0.68         | 225     | 4   | 16  | 11   | 40       | 45   | 0.8  | 14  | 0.5  | 0.55  |
|                    |        |                  |                                                                                                       | 12485    | 120.68   | 122.91 | 2.23         | 297     | 4   | 50  | 16   | 60       | 20   | 0.9  | 17  | 1.7  | 0.32  |
|                    |        |                  | 120.68 - 122.91 Mixed zone at gradational contact to skarn altered calcareous siltstone below.        |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | Lst bx with >> matrix than above (matrix supported) with calc siltstone filling between bx frags.     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | Local intervals of fine grained jelly bean conglomerate and of fine grained calcareous siltstone.     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 122.91             | 141.35 | Skarn alt'd      | Fine grained skarn altered siltstone or volcanic siltstone. Mottled grey-green colour, locally well   | 12486    | 122.91   | 125.00 | 2.09         | 297     | 4   | 27  | 11   | 68       | 10   | 0.8  | 16  | 2.4  | 0.09  |
|                    |        | Trbs             | bedded with alternating mm-sm scale beds at 50°. V hard. Generally weak-mod calcareous.               | 12487    | 125.00   | 127.50 | 2.50         | 401     | 7   | 106 | 29   | 99       | 6    | 0.8  | 16  | 1.9  | 0.07  |
|                    |        |                  | Strong ep-hem + local minor pale brown garnet skarn alteration. Thicker beds are coarser grained      | 12488    | 127.50   | 130.00 | 2.50         | 115     | 2   | 17  | 9    | 36       | 6    | 1.3  | <5  | 1.0  | 0.07  |
|                    |        |                  | altered volcanic sst or volcanic with relic fsp-mafic xtals. 2-5% py - diss and as minor semi-massive | 12489    | 130.00   | 132.08 | 2.08         | 380     | 16  | 42  | 24   | 148      | 60   | 0.9  | 33  | 1.5  | 0.15  |
|                    |        |                  | patches to 1 cm. Trace cpy.                                                                           | 12490    | STD SE-2 |        |              | >100000 | 155 | 487 | 9076 | >10000.0 | 4216 | 69.3 | 746 | 22.9 | 0.08  |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | 131.5 - 132.08 Crackled and bx'd adjacent to dyke.                                                    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | 132.08 - 137.77 Typical massive fresh Kspar megacrystic E1a syenite with chilled margins.             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | Upper contact at 35°, lower contact is very irregular.                                                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | 137.77 - 141.35 Epidote-garnet-hematite (+local px) skarn. >> garnet than interval above dyke.        | 12491    | 137.77   | 139.50 | 1.73         | 572     | 17  | 69  | 16   | 64       | 217  | 0.8  | 13  | 0.7  | 0.18  |
|                    |        |                  | Relic bx (or conglom?) texture. Gradational contact to coarse volcanic sst below (ie. coarsening      | 12492    | 139.50   | 141.35 | 1.85         | 188     | 6   | 30  | 15   | 43       | 10   | 1.2  | <5  | 0.4  | 0.11  |
|                    |        |                  | down hole).                                                                                           |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 141.35             | 161.80 | Trbs             | Medium to coarse grained massive thick interval of volc sst to fine conglome. No visible bedding.     | 12493    | 141.35   | 144.00 | 2.65         | 187     | 4   | 33  | 12   | 34       | 5    | 0.8  | 8   | 1.2  | 0.06  |
|                    |        |                  | Abundant 1-2 mm fsp and mafic xtals and 5% (locally to 30%) 5 mm - 1.5 cm subangular frags            | 12494    | 144.00   | 147.00 | 3.00         | 115     | 5   | 11  | 5    | 57       | 5    | 0.4  | 7   | 0.8  | 0.06  |
|                    |        |                  | of fng siltstone. Typically non to very weakly calcareous. Immature xtal rich sst to conglomerate,    | 12495    | 147.00   | 150.00 | 3.00         | 422     | 7   | 74  | 23   | 77       | 8    | 0.4  | 14  | 0.6  | 0.19  |
|                    |        |                  | or a xtal rich lapilli tuff. Weak ep-chl alt'n. 1-2% py - diss and with ep in patches.                | 12496    | 150.00   | 153.00 | 3.00         | 130     | 5   | 17  | 8    | 45       | 7    | 0.5  | 19  | 0.9  | 0.08  |
|                    |        |                  |                                                                                                       | 12497    | 153.00   | 156.00 | 3.00         | 148     | 4   | 8   | 7    | 97       | 23   | 0.4  | 13  | 0.9  | 0.05  |
|                    |        |                  | 158.0 - 161.8 str ep-hem-gar (+px) skarn.                                                             | 12498    | 156.00   | 158.00 | 2.00         | 103     | 3   | 11  | 11   | 95       | 7    | 0.8  | 17  | 0.7  | 0.04  |
|                    |        |                  | 158.0 - 158.2 Fault zone - crushed zone + py rich skarn                                               | 12499    | 158.00   | 160.00 | 2.00         | 338     | 3   | 71  | 15   | 57       | 37   | 1.4  | 23  | 1.0  | 0.12  |
|                    |        |                  | 159.15 - 159.60 chilled E1a Kspar megacrystic syenite at 45°                                          | 12500    | BLANK    |        |              | 78      | 2   | 4   | 34   | 95       | 3    | 0.3  | 35  | 0.3  | 0.04  |
|                    |        |                  |                                                                                                       | 12501    | 160.00   | 161.80 | 1.80         | 189     | 3   | 27  | 15   | 67       | 12   | 1.2  | 11  | 0.4  | 0.20  |
| 161.80             | 172.80 | Ei <sub>1a</sub> | Fresh pink Kspar megacrystic, bi phyrlic E1a syenite. Mod magnetic. Chilled zone at upper             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  | contact. Contact at 75°.                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 172.80             | EOH    |                  |                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 1.15     | 2.13        | 54       |
| 1     | 5.18       | 8.23     | 2.91     | 3.05        | 95       |
| 1/2   | 8.23       | 11.28    | 3.00     | 3.05        | 98       |
| 2     | 11.28      | 14.32    | 3.05     | 3.04        | 100      |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3/4   | 17.37      | 20.42    | 3.05     | 3.05        | 100      |
| 4     | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4/5   | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 2.90     | 3.05        | 95       |
| 5/6   | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 6     | 32.61      | 35.65    | 3.04     | 3.04        | 100      |
| 6/7   | 35.65      | 38.70    | 3.05     | 3.05        | 100      |
| 7     | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 7/8   | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8     | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 8/9   | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9/10  | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10    | 53.94      | 56.99    | 3.05     | 3.05        | 100      |
| 10/11 | 56.99      | 60.04    | 3.05     | 3.05        | 100      |
| 11    | 60.04      | 63.09    | 3.05     | 3.05        | 100      |
| 11/12 | 63.09      | 66.13    | 3.04     | 3.04        | 100      |
| 12    | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 12/13 | 69.18      | 72.23    | 2.98     | 3.05        | 98       |
| 13    | 72.23      | 75.28    | 3.00     | 3.05        | 98       |
| 13/14 | 75.28      | 78.32    | 3.04     | 3.04        | 100      |
| 14/15 | 78.32      | 81.37    | 3.05     | 3.05        | 100      |
| 15    | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 15/16 | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16    | 87.47      | 90.51    | 3.04     | 3.04        | 100      |
| 16/17 | 90.51      | 93.56    | 3.05     | 3.05        | 100      |
| 17    | 93.56      | 96.61    | 3.05     | 3.05        | 100      |
| 17/18 | 96.61      | 99.65    | 3.05     | 3.04        | 100      |
| 18    | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 18/19 | 102.70     | 105.75   | 3.05     | 3.05        | 100      |
| 19    | 105.75     | 108.80   | 3.05     | 3.05        | 100      |
| 19/20 | 108.80     | 111.85   | 3.05     | 3.05        | 100      |
| 20/21 | 111.85     | 114.90   | 3.00     | 3.05        | 98       |
| 21    | 114.90     | 117.94   | 3.03     | 3.04        | 100      |
| 21/22 | 117.94     | 120.99   | 3.05     | 3.05        | 100      |
| 22    | 120.99     | 124.04   | 3.00     | 3.05        | 98       |
| 22/23 | 124.04     | 127.09   | 3.05     | 3.05        | 100      |
| 23    | 127.09     | 130.13   | 3.04     | 3.04        | 100      |
| 23/24 | 130.13     | 133.18   | 3.05     | 3.05        | 100      |
| 24    | 133.18     | 136.23   | 3.05     | 3.05        | 100      |
| 24/25 | 136.23     | 139.28   | 3.05     | 3.05        | 100      |
| 25/26 | 139.28     | 142.32   | 3.04     | 3.04        | 100      |
| 26    | 142.32     | 145.37   | 3.05     | 3.05        | 100      |
| 26/27 | 145.37     | 148.42   | 2.55     | 3.05        | 84       |
| 27    | 148.42     | 151.47   | 2.75     | 3.05        | 90       |
| 27/28 | 151.47     | 154.51   | 3.04     | 3.04        | 100      |
| 28    | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 28/29 | 157.56     | 160.61   | 2.98     | 3.05        | 98       |
| 29/30 | 160.61     | 163.66   | 3.05     | 3.05        | 100      |
| 30    | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 30/31 | 166.70     | 169.75   | 3.05     | 3.05        | 100      |
| 31    | 169.75     | 172.80   | 2.82     | 3.05        | 92       |
|       | 172.80     | EOH      |          |             |          |

PROPERTY: Minnie Moore

HOLE: MM 07-6

Collar UTM Easting: 387410 Nad 83

Northing: 5444100

Grid Easting:

Northing:

Purpose: Same set-up as MM07-5, to test zone about 100' deeper

Azimuth: 90

Dip: -50

Depth: 168.08 m 551.5'

Elevation: 1112 m

Dip Test: none

Started: Nov 1/07

Completed: Nov 2/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Core ID: NQ2

Note: All angles listed in log are with respect to core axis.

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                            | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te   |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                        | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM  |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                        |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
| 3.05               | 57.62  | Ei2       | Typical fresh, medium grained, dark grey weak-mod magnetic fsp-px-bi Ei2 monzodior, as in previous holes.                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 21.6 - 24.2 Pink Ei1 Kspar megacrystic syenite with chilled margins. Weakly magnetic. Upper and lower contacts at 70°.                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 24.45 - 28.43 Pink Ei1 Kspar megacrystic syenite as above with chilled margins. Very irregular upper contact. Lower contact at 90°.                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | @ 33.2 m = THIN SECTION of type example of Ei2                                                                                                                                                         |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 34.7 - 37.25 Pink Kspar megacrystic Ei1 syenite dyke as above, with chilled margins. Contacts at 50° to CA.                                                                                            |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 43.80 - 44.0 Fault zone. Gouge + tectonic bx in Ei2, at contact with Ei1 dyke. Late fault, post-dates Ei1 dyke.                                                                                        |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 44.0 - 47.80 Pink Kspar megacrystic Ei1 syenite dyke, as above. Upper contact is fault contact. Lower contact is intrusive contact with chilled margin and contact at 50°.                             |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 48.16 - 48.26 Narrow chilled Ei1 dyke.                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 0.7 m chilled zone at lower contact of Ei2 unit, with later faulting at contact.                                                                                                                       |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | @ 57.62m 2 cm gouge + bx zone at 50°, along lower Ei2 sill contact.                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
| 57.62              | 105.85 | Trbs      | Grey-green aphanitic to fine grained, well bedded siliceous and locally albite/potassic? altered, calcareous siltstone or volcanic siltstone as in MM07-5, with minor pale grey limestone or limey sst | 12502    | 57.62    | 60.00  | 2.38         | 292 | 3   | 40  | 23  | 82  | 42  | 0.8 | 13  | 0.8 | 0.17 |
|                    |        |           | interbeds. Minor py - diss, with chl +/- cc in hairline vnlts, and as minor mm scale bedding                                                                                                           | 12503    | 60.00    | 63.00  | 3.00         | 432 | 5   | 41  | 68  | 64  | 64  | 1.7 | 24  | 1.3 | 0.21 |
|                    |        |           | parallel bands.                                                                                                                                                                                        | 12504    | 63.00    | 66.00  | 3.00         | 466 | 7   | 55  | 35  | 56  | 58  | 2.0 | 8   | 2.1 | 0.20 |
|                    |        |           |                                                                                                                                                                                                        | 12505    | 66.00    | 69.00  | 3.00         | 245 | 24  | 54  | 36  | 54  | 129 | 8.3 | 16  | 1.4 | 0.11 |
|                    |        |           |                                                                                                                                                                                                        | 12506    | 69.00    | 71.85  | 2.85         | 130 | 5   | 40  | 7   | 57  | 109 | 2.2 | 6   | 1.2 | 0.12 |
|                    |        |           | 57.62 - 62.9 Intensely siliceous. Silic'd and/or albite altered. Mottled pale grey-buff-pinkish colour. 2-3% py - diss and with chl and cc in hairline vnlts.                                          |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 57.62 - 59.0 tectonic bx                                                                                                                                                                               |          |          |        |              |     |     |     |     |     |     |     |     |     |      |



| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                              | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                          | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |           | @ 63.15 good bedding at 65°                                                                                                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 67.5 good bedding at 65°                                                                                                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 67.9 - 69.65 Pale grey, mod soft, str calc argillic alt'd limey sst. Massive to coarsely bedded with minor tectonic bx zones.                                                                                                                                                                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 71.85 - 77.31 Typical dark grey E <sub>i2</sub> fsp-px-bi dyke with chilled margins. Upper contact at 90°, lower at 40°.                                                                                                                                                                                                 | 12507    | 77.31    | 80.00  | 2.69         | 248     | 26  | 79  | 11   | 256      | 268  | 1.4  | 17  | 1.1  | 0.18  |
|                    |        |           | 78.5 - 80.0 v siliceous, mottled pinkish brown, well bedded seds, str carb-Kspar-albite-qtz alteration @ 79.4 m THIN SECTION                                                                                                                                                                                             | 12508    | 80.00    | 81.78  | 1.78         | 120     | 88  | 48  | 8    | 51       | 124  | 1.3  | 22  | 0.8  | 0.28  |
|                    |        |           | <b>81.78 - 82.28 Interval has 10% white qtz bx veins</b> at 45° to CA = parallel to bedding. Vns avg 1 cm and have minor fine grained pyrite, particularly as grey bands (with ??) along vein selvages. Minor very small angular wall rx frags as bx frags in veins.                                                     | 12509    | 81.78    | 82.28  | 0.50         | 1292    | 15  | 17  | 19   | 44       | 220  | 1.0  | 11  | 0.5  | 0.31  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12510    | STD SE-2 |        |              | >100000 | 152 | 473 | 8751 | >10000.0 | 4154 | 70.6 | 710 | 22.1 | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12511    | 82.28    | 85.50  | 3.22         | 1051    | 110 | 44  | 24   | 43       | 374  | 1.2  | 18  | 1.1  | 0.20  |
|                    |        |           | 83.0 - 83.2 Fault Zone - gouge + bx'd broken core.                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 84.2 m is 3 cm cc bx vein at 45° (perp to bedding). White fine grained massive calcite (+ minor qtz?) with 40% mm - 2 cm sized angular bx frags of siltstone.                                                                                                                                                          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | ~ 85.5 m start to see increasing size and number of limestone or limey sst interbeds                                                                                                                                                                                                                                     | 12512    | 85.50    | 86.37  | 0.87         | 141     | 11  | 71  | 7    | 113      | 66   | 0.8  | 16  | 1.7  | 0.26  |
|                    |        |           | 85.5 - 105.85 Interval is ~ 30-40% pale grey limestone (+/- silicified) interbeds in fine grained well bedded siliceous albite/calc-silicate? altered Trbs. > py than above, to 5% - diss, patches and mm scale bands parallel to bedding and with chl +/- qtz in hairline veinlets. Very well developed bedding at 50°. | 12513    | 86.37    | 89.00  | 2.63         | 114     | 24  | 55  | 10   | 89       | 271  | 1.8  | 34  | 1.1  | 0.09  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12514    | 89.00    | 92.00  | 3.00         | 110     | 32  | 55  | 4    | 54       | 276  | 1.7  | <5  | 2.4  | 0.07  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12515    | 92.00    | 95.00  | 3.00         | 176     | 10  | 80  | 7    | 95       | 82   | 1.7  | 15  | 3.7  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12516    | 95.00    | 98.00  | 3.00         | 191     | 7   | 47  | 15   | 126      | 53   | 2.0  | 42  | 3.2  | 0.05  |
|                    |        |           | 85.5 - 86.37 pale grey, str calc, v hard siliceous, calc-silicate alt'd limestone with 5% very fine sulfides in silica flood @ 86.0 THIN SECTION                                                                                                                                                                         | 12517    | 98.00    | 101.00 | 3.00         | 149     | 12  | 33  | 11   | 90       | 143  | 3.3  | 20  | 2.3  | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12518    | 101.00   | 104.00 | 3.00         | 193     | 5   | 41  | 9    | 78       | 92   | 2.3  | 8   | 3.8  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12519    | 104.00   | 105.85 | 1.85         | 207     | 5   | 36  | 9    | 72       | 43   | 2.0  | <5  | 2.6  | 0.08  |
|                    |        |           | @ 105.85m sharp contact at 60° to coarse sst - very fine conglomerate                                                                                                                                                                                                                                                    | 12520    | BLANK    |        |              | 57      | 0   | 3   | 20   | 69       | 10   | 0.3  | <5  | 0.4  | <0.02 |
| 105.85             | 108.20 | Trbl (jb) | Gradational zone between Trbs above and Trbl(bx) below with very fine, strongly calcareous chert pebble conglomerate interbedded with well bedded Trbs as above and lst bx as below. @ 108.2 grades to lst bx below.                                                                                                     | 12521    | 105.85   | 108.20 | 2.35         | 147     | 5   | 31  | 5    | 43       | 12   | 0.6  | <5  | 1.4  | 0.03  |
| 108.20             | 149.90 | Trbl (bx) | Pale grey, coarse mosaic-type clast-supported limestone bx as in MM07-5, with minor intervals of fine grained "jelly bean conglomerate" as noted.                                                                                                                                                                        | 12522    | 108.20   | 111.00 | 2.80         | 110     | 3   | 9   | 3    | 27       | 8    | 0.3  | <5  | 0.9  | 0.05  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12523    | 111.00   | 114.00 | 3.00         | 109     | 3   | 6   | 4    | 22       | 20   | 0.4  | 14  | 0.8  | 0.03  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                          | 12524    | 114.00   | 117.25 | 3.25         | 72      | 8   | 8   | 3    | 21       | 9    | 0.2  | 8   | 1.6  | 0.06  |
|                    |        |           | 116.5 - 117.25 contains ~ 40% v fine grained med chert pebble-grain conglomerate as infilling between lst bx frags and as discrete beds to 20 cm, at 50-80°.                                                                                                                                                             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 117.25 - 120.1 mottled grey-pinkish tinge from carbonate? alteration                                                                                                                                                                                                                                                     | 12525    | 117.25   | 120.10 | 2.85         | 115     | 3   | 3   | 5    | 18       | 15   | 0.2  | 10  | 0.7  | 0.06  |
|                    |        |           | <b>120.1 - 122.27 MINNIE MOORE ZONE</b> Zone of white-grey qtz (+ cc) veining and irregular qtz                                                                                                                                                                                                                          | 12526    | 120.10   | 121.10 | 1.00         | 286     | 4   | 2   | 9    | 18       | 33   | 0.3  | 9   | 0.7  | 0.10  |

| DOMINANT ROCK TYPE |        |                                      | DESCRIPTION                                                                                                                                                                                                                                                                                                                                        | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology                            |                                                                                                                                                                                                                                                                                                                                                    | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |                                      | flooding. ~50% of this interval is qtz or silic'd lst and 50% is unaltered limestone bx. Qtz veins are preferentially at 60°. Veins are up to 30 cm true width, with white-grey mottled qtz-carb mix and minor ghosty bx clasts of lst and siltstone + minor py + ?? other sulfides??                                                              | 12527    | 121.10   | 122.27 | 1.17         | 328     | 5   | 2   | 17   | 68       | 39   | 0.4  | 46  | 0.3  | 0.16  |
|                    |        |                                      | 122.27 - 125.6 Pink Kspar megacrystic Eil1a syenite dyke with chilled intrusive upper contact at 50-60°, and strongly faulted lower contact.                                                                                                                                                                                                       | 12528    | 122.27   | 125.60 | 3.33         | 184     | 18  | 4   | 20   | 64       | 13   | 0.2  | <5  | 0.1  | <0.02 |
|                    |        |                                      | 125.4 - 125.6 Fault gouge and bx.                                                                                                                                                                                                                                                                                                                  |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |                                      | 125.6 - 127.4 Limestone breccia, locally str silic'd + very minor qtz veining.                                                                                                                                                                                                                                                                     | 12529    | 125.60   | 127.40 | 1.80         | 400     | 20  | 4   | 24   | 40       | 22   | 0.3  | <5  | 0.5  | 0.17  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12530    | STD SE-2 |        |              | >100000 | 149 | 470 | 9672 | >10000.0 | 4342 | 96.1 | 782 | 21.9 | 0.06  |
|                    |        |                                      | 127.4 - 129.3 Fine grained muddy grey Kspar megacrystic Eil1a syenite with sharp intrusive contact at 60°.                                                                                                                                                                                                                                         | 12531    | 127.40   | 129.30 | 1.90         | 295     | 24  | 4   | 29   | 73       | 29   | 0.3  | <5  | 0.1  | 0.04  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12532    | 129.30   | 132.00 | 2.70         | 234     | 4   | 5   | 8    | 30       | 17   | 0.2  | <5  | 0.7  | 0.04  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12533    | 132.00   | 135.00 | 3.00         | 118     | 2   | 6   | 3    | 16       | 5    | 0.2  | <5  | 0.6  | 0.04  |
|                    |        |                                      | 129.3 - 142.0 Mottled green-pinkish grey calc-silicate (carbonate?) altered limestone breccia with local patchy irregular zones of intense grey silic'n that comprise ~ 10% of interval. Minor py and v minor white qtz vnlt.                                                                                                                      | 12534    | 135.00   | 138.00 | 3.00         | 105     | 2   | 6   | 2    | 13       | 4    | 0.2  | <5  | 0.5  | 0.56  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12535    | 138.00   | 141.00 | 3.00         | 47      | 2   | 18  | 1    | 14       | 4    | 0.2  | <5  | 1.4  | 0.50  |
|                    |        |                                      | 138.4 THIN SECTION                                                                                                                                                                                                                                                                                                                                 | 12536    | 141.00   | 144.00 | 3.00         | 107     | 4   | 7   | 3    | 30       | 32   | 0.3  | <5  | 0.7  | 0.42  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12537    | 144.00   | 146.70 | 2.70         | 301     | 7   | 13  | 4    | 29       | 40   | 0.4  | 8   | 0.9  | 0.08  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12538    | 146.70   | 147.15 | 0.45         | 298     | 1   | 16  | 3    | 35       | 8    | 0.4  | <5  | 0.3  | 0.07  |
|                    |        |                                      | 142.0 - 149.9 Typical grey limestone bx.                                                                                                                                                                                                                                                                                                           | 12539    | 147.15   | 149.90 | 2.75         | 166     | 2   | 14  | 2    | 27       | 15   | 0.3  | 8   | 0.8  | 0.10  |
|                    |        |                                      | 145.37 - 145.67 narrow interbed of fine grained clast supported chert pebble conglom                                                                                                                                                                                                                                                               | 12540    | BLANK    |        |              | 51      | 2   | 1   | 21   | 63       | 6    | 0.2  | <5  | 0.3  | <0.02 |
|                    |        |                                      | 146.7 - 147.15 dark grey intensely silic'd zone with grey-white qtz flooding & veins. Minor py. Zone at 45°.                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 149.90             | 159.52 | Ei1b                                 | Typical fine to medium grained, pinkish brown Ei1b syenite dyke. Moderately magnetic, fresh, Ksp-bi phytic. Intrusive contacts with chilled margins, at 50°.                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 159.52             | 168.08 | Ep-hem-px<br>gar skarn<br>alt'd Trbs | Strongly calcareous, mottled green-grey-pinkish moderate to strongly skarn altered fine grained calcareous sediments. Locally bedding is well preserved. Locally massive pervasive ep or hem. Patchy zones of amber to pale brown massive fine grained garnet. 2-5% pyrite - dissem and patchy. Minor limestone bx interbeds (ie. 163.0 - 164.2 m) | 12541    | 159.52   | 162.00 | 2.48         | 303     | 3   | 46  | 6    | 110      | 14   | 0.9  | <5  | 0.6  | 0.03  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12542    | 162.00   | 165.00 | 3.00         | 1629    | 12  | 51  | 23   | 72       | 158  | 2.9  | 36  | 1.2  | 0.04  |
|                    |        |                                      |                                                                                                                                                                                                                                                                                                                                                    | 12543    | 165.00   | 167.60 | 2.60         | 465     | 4   | 66  | 18   | 96       | 18   | 1.1  | <5  | 0.8  | 0.04  |
|                    |        |                                      | 167.6 - 168.06 Ei1a muddy grey chilled dyke.                                                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 168.08             | EOH    |                                      |                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 2.13     | 2.13        | 100      |
| 1     | 5.18       | 8.23     | 3.05     | 3.05        | 100      |
| 1/2   | 8.23       | 11.28    | 3.05     | 3.05        | 100      |
| 2     | 11.28      | 14.32    | 3.04     | 3.04        | 100      |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3/4   | 17.37      | 20.42    | 3.05     | 3.05        | 100      |
| 4     | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4/5   | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 3.05     | 3.05        | 100      |
| 5/6   | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 6     | 32.61      | 35.66    | 3.05     | 3.05        | 100      |
| 6/7   | 35.66      | 38.70    | 3.00     | 3.04        | 99       |
| 7     | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 7/8   | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8     | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 8/9   | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9/10  | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10    | 53.94      | 56.99    | 3.05     | 3.05        | 100      |
| 10/11 | 56.99      | 60.04    | 3.05     | 3.05        | 100      |
| 11    | 60.04      | 63.09    | 3.05     | 3.05        | 100      |
| 11/12 | 63.09      | 66.13    | 3.00     | 3.04        | 99       |
| 12    | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 13    | 69.18      | 72.23    | 3.00     | 3.05        | 98       |
| 13/14 | 72.23      | 75.28    | 3.05     | 3.05        | 100      |
| 14    | 75.28      | 78.32    | 3.04     | 3.04        | 100      |
| 14/15 | 78.32      | 81.37    | 2.95     | 3.05        | 97       |
| 15    | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 15/16 | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16/17 | 87.47      | 90.51    | 3.04     | 3.04        | 100      |
| 17    | 90.51      | 93.56    | 3.05     | 3.05        | 100      |
| 17/18 | 93.56      | 96.61    | 2.90     | 3.05        | 95       |
| 18    | 96.60      | 99.65    | 3.05     | 3.05        | 100      |
| 18/19 | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 19    | 102.70     | 105.75   | 3.00     | 3.05        | 98       |
| 19/20 | 105.75     | 108.80   | 3.05     | 3.05        | 100      |
| 20/21 | 108.80     | 111.85   | 3.05     | 3.05        | 100      |
| 21    | 111.85     | 114.90   | 3.05     | 3.05        | 100      |
| 21/22 | 114.90     | 117.94   | 3.04     | 3.04        | 100      |
| 22    | 117.94     | 120.99   | 3.05     | 3.05        | 100      |
| 22/23 | 120.99     | 124.04   | 3.05     | 3.05        | 100      |
| 23    | 124.04     | 127.09   | 2.90     | 3.05        | 95       |
| 23/24 | 127.09     | 130.13   | 3.04     | 3.04        | 100      |
| 24    | 130.13     | 133.18   | 3.05     | 3.05        | 100      |
| 24/25 | 133.18     | 136.23   | 3.05     | 3.05        | 100      |
| 25/26 | 136.23     | 139.28   | 3.05     | 3.05        | 100      |
| 26    | 139.28     | 142.32   | 3.04     | 3.04        | 100      |
| 26/27 | 142.32     | 145.37   | 3.05     | 3.05        | 100      |
| 27    | 145.37     | 148.42   | 3.05     | 3.05        | 100      |
| 27/28 | 148.42     | 151.47   | 3.05     | 3.05        | 100      |
| 28    | 151.47     | 154.51   | 2.95     | 3.04        | 97       |
| 28/29 | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 29    | 157.56     | 160.61   | 3.05     | 3.05        | 100      |
| 29/30 | 160.61     | 163.66   | 3.00     | 3.05        | 98       |
| 30/31 | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 31    | 166.70     | 168.08   | 1.38     | 1.38        | 100      |
|       | 168.08     | EOH      |          |             |          |

PROPERTY: Minnie Moore

HOLE: MM 07-7

Collar UTM Easting: 387440 Nad 83

Northing: 5444095

Grid Easting:

Northing:

Purpose: To test Minnie Moore zone in same section as holes MM07-5, 6, at a shallower depth than MM 07-5

Azimuth: 90

Dip: -50

Depth: 102.7 m 337'

Elevation: 1111 m

Dip Test: none

Started: Nov 3/07

Completed: Nov 3/07

Drilled by: More Core Drilling

Logged by: Linda Caron

Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis.

Core: NQ2

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te   |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM  |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
| 3.05               | 66.18  | Ei2       | Typical fresh, medium grained, dark grey weak-mod magnetic fsp-px-bi Ei2 monzodior, as in previous holes, cut by numerous Ei1 syenite dykes, as noted.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 11.28 - 14.45 Pinkish brown Kspar-biotite syenite with intrusive contacts and with muddy-grey chilled margins. Good lower contact at 70°.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 14.90 - 19.70 Ei1 syenite dyke as above, with chilled intrusive contacts. Upper contact at 45°, lower at 75°.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 21.25 - 21.50 Fault Zone. Fault gouge, talc (or smectite?) on frags + very broken chl alt'd Ei2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 29.35 - 44.4 Medium grained pink Ei1 syenite dyke as above, with chilled intrusive contacts. Upper at 50°, lower at 70°.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 34.0 - 35.1 Bleached, soft, mod-str clay-seric?-chl alt'd zone. Saus fsp and chl alt'd mafics, but original Ei1 textures are well preserved. Cut by numerous white very soft, soapy, talc or clay (smectite?) filled fractures. Contains zone, 10 cm true width, of vuggy white-pale green clay-carb + qtz veining with minor py at 60°.                                                                                                                                                                                                                                                                     | 12544    | 34.00    | 35.10  | 1.10         | 163 | 3   | 26  | 36  | 59  | 11  | 0.6 | 6   | 0.3 | 0.04 |
|                    |        |           | @ 66.18m sharp intrusive contact at 45°, with chilled margin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
| 66.18              | 69.65  | Trbl (jb) | Pale-medium grey, v strongly siliceous, moderately calcareous, fine grained, matrix-supported chert pebble conglomerate. Variable appearance from good matrix supported chert pebble conglom with 40% <1mm - 4 mm and rarely > 4 mm, rounded-subround grey chert frags in calcareous, siliceous, pale grey-green groundmass (ie. 69.3 m) to finer grained sst, to a silicified oolitic limestone (?) that is pale grey with 40% ~ 5 mm rounded white-pale grey carbonate oolites? supported in a grey siliceous calcareous gmass. Local good banding/bedding at 60° with cm scale aphanitic grey-green beds. | 12545    | 66.18    | 68.00  | 1.82         | 74  | 2   | 8   | 2   | 10  | 48  | 1.7 | <5  | 0.6 | 0.12 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12546    | 68.00    | 69.65  | 1.65         | 165 | 2   | 35  | 2   | 12  | 29  | 1.8 | <5  | 1.0 | 0.26 |
|                    |        |           | 66.18 - 66.54 grey limestone bx with minor local patchy silic'n and ep alt'n.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 67.8 m = THIN SECTION (oolitic limestone?)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
|                    |        |           | 69.3 m = THIN SECTION (chert pebble conglom)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |     |      |
| 69.65              | 95.03  | Trbl (bx) | Typical grey coarse limestone mosaic breccia, as in previous holes, with minor narrow conglom and fine grained siltstone interbeds. Minor irregular white carb (+/- qtz) vnlts and patchy zones.                                                                                                                                                                                                                                                                                                                                                                                                             | 12547    | 69.65    | 71.50  | 1.85         | 461 | 7   | 16  | 3   | 45  | 84  | 0.8 | <5  | 1.5 | 0.33 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12548    | 71.50    | 73.30  | 1.80         | 378 | 10  | 19  | 4   | 48  | 170 | 1.8 | <5  | 1.5 | 0.26 |

| DOMINANT ROCK TYPE |        |            | DESCRIPTION                                                                                                                                                                                                                                                            | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology  |                                                                                                                                                                                                                                                                        | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |            | 71.65 - 72.1 fine grained chert pebble conglom bed at 45°                                                                                                                                                                                                              | 12549    | 73.30    | 73.50  | 0.20         | 1393    | 68  | 13  | 8    | 525      | 1072 | 4.7  | 68  | 1.2  | 0.22  |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12550    | STD SE-2 |        |              | >100000 | 171 | 464 | 9293 | >10000.0 | 4221 | 95.2 | 871 | 22.2 | 0.04  |
|                    |        |            | @ 73.35 3 cm dark grey qtz-carb-semi massive pyrite vein at 45°. 50% fine grained py in vein.                                                                                                                                                                          | 12551    | 73.50    | 76.50  | 3.00         | 70      | 3   | 8   | 3    | 37       | 27   | 0.5  | 6   | 0.6  | 0.36  |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12552    | 76.50    | 79.50  | 3.00         | 95      | 3   | 7   | 3    | 31       | 14   | 0.3  | 6   | 0.8  | 0.34  |
|                    |        |            | @ 78.5 start to see weak pinkish mottling in limestone bx (carb alt'n?), continues to dyke contact at 83.3 m.                                                                                                                                                          | 12553    | 79.50    | 81.20  | 1.70         | 30      | 1   | 3   | 1    | 10       | 2    | 0.1  | <5  | 0.4  | 0.37  |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12554    | 81.20    | 83.30  | 2.10         | 30      | 1   | 7   | 1    | 10       | 5    | 0.1  | <5  | 0.5  | 0.33  |
|                    |        |            | 81.2 - 83.3 Minor local zones of pervasive silicification                                                                                                                                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |            | 83.3 - 89.8 Typical dark grey mod magnetic E2 dyke with chilled margins and intrusive contacts. Upper contact at 30°. Lower contact has later fault gouge/bx zone along chilled contact, at 30°.                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |            | <b>89.8 - 93.56 Minnie Moore Zone???</b> Moderate pervasive silicification in limestone bx and in minor interbedded pyritic finely bedded muddy grey-green siltstone. Very hard throughout, with patchy irregular zones of grey silica flooding. Common white cc vnlt. | 12555    | 89.80    | 91.80  | 2.00         | 720     | 16  | 11  | 7    | 34       | 63   | 1.2  | 14  | 0.6  | 0.28  |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12556    | 91.80    | 93.56  | 1.76         | 90      | 3   | 7   | 3    | 25       | 11   | 0.3  | <5  | 0.7  | 0.26  |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12557    | 93.56    | 95.03  | 1.47         | 104     | 3   | 26  | 4    | 59       | 4    | 0.4  | <5  | 1.2  | 0.20  |
|                    |        |            | 93.95 - 94.40 Dark grey-green, fine grained, well bedded calcareous siltstone. Bedding at 60°.                                                                                                                                                                         |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 95.03              | 102.70 | Skarn      | Dark green and mottled pale green-purplish epidote-chlorite-hematite skarn (+ albite?) altered                                                                                                                                                                         | 12558    | 95.03    | 98.00  | 2.97         | 210     | 4   | 57  | 4    | 64       | 4    | 0.5  | 9   | 3.9  | 0.05  |
|                    |        | alt'd Trbs | calcareous siliceous fine grained, well bedded siltstone and interbedded fine grained conglom.                                                                                                                                                                         | 12559    | 98.00    | 101.00 | 3.00         | 186     | 5   | 37  | 5    | 71       | 10   | 0.5  | 9   | 1.2  | 0.08  |
|                    |        |            | Bedding at 60°. Minor py.                                                                                                                                                                                                                                              | 12560    | BLANK    |        |              | 34      | 1   | 3   | 21   | 67       | 1    | 0.2  | <5  | 0.2  | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                        | 12561    | 101.00   | 102.70 | 1.70         | 134     | 5   | 7   | 3    | 49       | 15   | 0.8  | 9   | 1.0  | 0.12  |
|                    |        |            | 98.4 - 98.5 Fault - gouge and tectonic bx.                                                                                                                                                                                                                             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |            | 99.57 - 99.79 Fault - gouge and tectonic bx.                                                                                                                                                                                                                           |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 102.70             | EOH    |            |                                                                                                                                                                                                                                                                        |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 1.15     | 2.13        | 54       |
| 1     | 5.18       | 8.23     | 3.05     | 3.05        | 100      |
| 1/2   | 8.23       | 11.28    | 3.05     | 3.05        | 100      |
| 2     | 11.28      | 14.32    | 3.04     | 3.04        | 100      |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3/4   | 17.37      | 20.42    | 3.00     | 3.05        | 98       |
| 4     | 20.42      | 23.47    | 3.00     | 3.05        | 98       |
| 4/5   | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 3.05     | 3.05        | 100      |
| 5/6   | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 6     | 32.61      | 35.66    | 3.05     | 3.05        | 100      |
| 6/7   | 35.66      | 38.70    | 3.04     | 3.04        | 100      |
| 7     | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 7/8   | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8     | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 9     | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9/10  | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10    | 53.94      | 56.99    | 3.05     | 3.05        | 100      |
| 10/11 | 56.99      | 60.04    | 3.05     | 3.05        | 100      |
| 11    | 60.04      | 63.09    | 3.05     | 3.05        | 100      |
| 11/12 | 63.09      | 66.13    | 2.95     | 3.04        | 97       |
| 12    | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 12/13 | 69.18      | 72.23    | 3.05     | 3.05        | 100      |
| 13    | 72.23      | 75.28    | 3.00     | 3.05        | 98       |
| 14    | 75.28      | 78.32    | 3.04     | 3.04        | 100      |
| 14/15 | 78.32      | 81.37    | 3.05     | 3.05        | 100      |
| 15    | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 15/16 | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16    | 87.47      | 90.51    | 2.95     | 3.04        | 97       |
| 16/17 | 90.51      | 93.56    | 3.05     | 3.05        | 100      |
| 17    | 93.56      | 96.61    | 3.00     | 3.05        | 98       |
| 17/18 | 96.60      | 99.65    | 2.90     | 3.05        | 95       |
| 18    | 99.65      | 102.70   | 3.00     | 3.05        | 98       |
| 18    | 102.70     | EOH      |          |             |          |

PROPERTY: Minnie Moore  
 HOLE: MM 07-8

Collar UTM Easting: 387414 Nad 83  
 Northing: 5444133  
 Grid Easting:  
 Northing:

Purpose: To test for Minnie Moore zone, on strike to the north of MM07-5, 6 + test rocks to east

Azimuth: 90  
 Dip: -50  
 Depth: 297.75 m 977'  
 Elevation: 1110 m  
 Dip Test: none

Started: Nov 3/07  
 Completed: Nov 6/07  
 Drilled by: More Core Drilling  
 Logged by: Linda Caron  
 Operator: Kettle River Resources

Note: All angles listed in log are with respect to core axis.

Core: NQ2

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                      | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te    |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                  | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM   |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                                  |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 3.05               | 58.00  | Ei2       | Typical fresh dark grey weak-mod magnetic Ei2 monzodior, as in previous holes.                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 16.0 - 17.5 Fault zone with str Fe ox frags, broken core. At 30°.                                                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 17.90 - 22.25 Typical pink Kspar megacrystic Ei1a syenite with chilled contacts.<br>21.0 - 21.2 Fault zone - str Fe ox frags with slickensides.                                                                                                                                                  |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 27.45 - 29.88 Typical pink Kspar megacrystic Ei1a syenite dyke with chilled margins and intrusive contacts at 65-75°.                                                                                                                                                                            |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 38.70 - 45.60 Pink medium grained fsp-biotite-px Ei1b, mod magnetic syenite with dark grey chilled contacts, cuts Ei2.                                                                                                                                                                           |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 46.0 - 46.4 Saus fsp and weak pervasive argillic alt'n in Ei2.                                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | @ 50.15 intrusive contact to Ei1a Kspar megacrystic syenite dyke with chilled margins. By 50.60 m, this dyke has become intensely bleached and argillic altered within a very large, very strong Fault Zone. Can't tell protolith from 52.0 - 58.0, except locally where see relic Ei1a texture. |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | <b>50.60 - 58.0 FAULT ZONE</b> Intense argillic alteration + gouge + tectonic bx and broken core.                                                                                                                                                                                                | 12562    | 50.60    | 51.60  | 1.00         | 38  | 2   | 6   | 10  | 54  | 2   | 0.2 | <5  | 0.2 | 0.02  |
|                    |        |           | Overall trend of fault zone is possibly at 45°.                                                                                                                                                                                                                                                  | 12563    | 51.60    | 52.60  | 1.00         | 183 | 5   | 33  | 24  | 60  | 8   | 0.6 | <5  | 0.4 | 0.02  |
|                    |        |           | 50.60 - 51.90 Pale grey, very strongly bleached and perv argillic alt'd Kspar megacrystic Ei1a syenite, with relic texture preserved and common clay-seric on frags                                                                                                                              | 12564    | 52.60    | 55.60  | 3.00         | 98  | 2   | 31  | 15  | 71  | 5   | 0.3 | <5  | 0.3 | 0.06  |
|                    |        |           | @ 51.2 m = THIN SECTION                                                                                                                                                                                                                                                                          | 12565    | 55.60    | 58.00  | 2.40         | 124 | 4   | 30  | 15  | 79  | 21  | 2.9 | <5  | 0.6 | <0.02 |
|                    |        |           | @ 51.65 4 cm qtz vein at 35°. Massive white-pale grey-green qtz with veinlets of white soapy clay                                                                                                                                                                                                |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | @ 51.90 2 cm grey-white qtz ven at 85°                                                                                                                                                                                                                                                           |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 51.90 - 53.05 Fault gouge + tectonic bx + intense argillic alt'd probable Ei1a dyke                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | @ 54.5 5 cm gouge zone at 45°                                                                                                                                                                                                                                                                    |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
|                    |        |           | 57.80 - 58.0 strong gouge zone                                                                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |     |       |
| 58.00              | 101.55 | Trbs      | Thick section of buff-pale brown/grey, aphanitic, mottled, weak-mod calcareous sediment,                                                                                                                                                                                                         | 12566    | 58.00    | 61.00  | 3.00         | 288 | 22  | 55  | 11  | 119 | 109 | 2.7 | 12  | 0.9 | 0.09  |

| DOMINANT ROCK TYPE |        |            | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |            | typically siliceous (+/- potassic? alt'd) but very locally beds are soft, argillic alt'd. Mod well developed bedding at 60°. Interbedded calcareous siltstone, non-calc sst, cherty siltstone to mudstone, and lesser pale grey limey sst. 5% py - diss and with chl in hairline vnlt's (+/- bleached alt'n selvages) + minor patches. Common chl (mica?) fracs and vnlt's +/- py. Minor clay filled fractures. Common hairline - mm scale cc vnlt's and patches. V minor qtz-cc vnlt's. | 12567    | 61.00    | 64.00  | 3.00         | 406     | 12  | 63  | 11   | 88       | 66   | 1.7  | <5  | 1.2  | 0.14  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12568    | 64.00    | 67.00  | 3.00         | 298     | 14  | 50  | 12   | 108      | 71   | 1.7  | <5  | 1.0  | 0.06  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12569    | 67.00    | 68.70  | 1.70         | 248     | 8   | 52  | 9    | 45       | 41   | 1.5  | <5  | 1.5  | 0.12  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12570    | STD SE-2 |        |              | >100000 | 165 | 448 | 9162 | >10000.0 | 4260 | 97.5 | 827 | 22.9 | 0.07  |
|                    |        |            | 58.0 - 60.5 Local beds/zones of str pervasive argillic alt'n                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |            | @ 64.7 = THIN SECTION of fine grained grey potassic/calc-silicate alt'd siltstone with network of vnlt's with bleached alt'n selvages.                                                                                                                                                                                                                                                                                                                                                   |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |            | 68.7 - 73.25 Dark grey, fng, mod magnetic fsp-px E1b or E2? dyke with fine grained muddy grey px phyrlic chilled margins and intrusive contacts. ~ parallel to bedding at 45°.                                                                                                                                                                                                                                                                                                           | 12571    | 73.25    | 76.00  | 2.75         | 519     | 4   | 47  | 5    | 33       | 69   | 1.4  | <5  | 0.9  | 0.10  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12572    | 76.00    | 79.00  | 3.00         | 225     | 3   | 70  | 6    | 33       | 84   | 1.5  | <5  | 1.4  | 0.07  |
|                    |        |            | Below 73.25 there are an increasing number of non-calc siltstone +/- cherty siltstone beds, to > 50% of unit. Good bedding continues, at 50°.                                                                                                                                                                                                                                                                                                                                            | 12573    | 79.00    | 82.00  | 3.00         | 230     | 8   | 73  | 4    | 73       | 293  | 4.8  | <5  | 1.5  | 0.09  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12574    | 82.00    | 85.00  | 3.00         | 185     | 3   | 100 | 4    | 18       | 179  | 1.2  | <5  | 1.9  | 0.07  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12575    | 85.00    | 88.00  | 3.00         | 288     | 2   | 55  | 5    | 59       | 115  | 1.6  | <5  | 1.2  | 0.06  |
|                    |        |            | 81.4 - 82.0 mottled pale pinkish-brown colour, albite alt'n? or ??                                                                                                                                                                                                                                                                                                                                                                                                                       | 12576    | 88.00    | 91.00  | 3.00         | 207     | 2   | 55  | 25   | 129      | 103  | 1.4  | 6   | 1.5  | 0.07  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12577    | 91.00    | 94.00  | 3.00         | 200     | 3   | 34  | 3    | 34       | 126  | 1.4  | <5  | 1.4  | 0.10  |
| 101.55             | 107.75 | Trbl (jb)  | Pale grey interbedded calcareous chert pebble conglomerate and oolitic limestone, as in MM07-7 66.18 - 69.65 m, but not very silicified. Conglom beds are weak-mod ep-gar skarn altered.                                                                                                                                                                                                                                                                                                 | 12578    | 94.00    | 97.00  | 3.00         | 119     | 2   | 29  | 3    | 26       | 93   | 1.4  | <5  | 1.6  | 0.08  |
|                    |        |            | 101.55 - 102.8 mod ep-pale brown/yellow garnet skarn alt'n in calc chert pebble conglom.                                                                                                                                                                                                                                                                                                                                                                                                 | 12579    | 97.00    | 100.00 | 3.00         | 99      | 1   | 26  | 3    | 51       | 22   | 1.3  | 8   | 1.2  | 0.07  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12580    | BLANK    |        |              | 37      | 1   | 3   | 22   | 69       | 12   | 0.3  | 7   | <0.1 | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12581    | 100.00   | 101.55 | 1.55         | 199     | 3   | 14  | 6    | 33       | 29   | 1.0  | 28  | 1.4  | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12582    | 101.55   | 104.00 | 2.45         | 106     | 1   | 6   | 5    | 34       | 8    | 0.5  | 7   | 0.2  | <0.02 |
| 107.75             | 111.00 | Trbs       | Well bedded interbedded grey-green fine grained siltstone and pale limey sst/limestone at contact with Trbl(bx) below. Bedding at 50°. Minor late cc +/- hem vnlt's, to 1.5 cm.                                                                                                                                                                                                                                                                                                          | 12583    | 104.00   | 106.00 | 2.00         | 77      | 1   | 7   | 3    | 17       | 7    | 0.4  | <5  | 0.4  | 0.03  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12584    | 106.00   | 107.75 | 1.75         | 196     | 3   | 19  | 2    | 25       | 5    | 0.2  | 9   | 0.9  | 0.02  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12585    | 107.75   | 111.00 | 3.25         | 118     | 3   | 21  | 4    | 75       | 9    | 0.7  | 9   | 1.9  | 0.03  |
| 111.00             | 128.75 | Trbl (bx)  | Typical pale grey, coarse lst mosaic bx as in previous holes.                                                                                                                                                                                                                                                                                                                                                                                                                            | 12586    | 111.00   | 113.50 | 2.50         | 35      | 2   | 11  | 2    | 16       | 6    | 0.2  | <5  | 0.7  | 0.05  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12587    | 113.50   | 116.00 | 2.50         | 19      | 0   | 4   | 1    | 14       | 4    | 0.2  | <5  | 0.4  | 0.05  |
|                    |        |            | <b>116.0 - 127.45 Minnie Moore Zone ??</b> Zone of weak silic'd limestone bx. Mottled pinkish-grey-green calc-silicate? carbonate? altered limestone bx with local patchy irregular grey zones of strong pervasive silic'n within lst frags and in matrix between lst frags. Moderately common narrow cc vnlt's. Lacks white qtz +/- cc vning and gash filling seen in other sections. More subtle/weaker zone than seen in other holes if this is indeed the Minnie Moore zone.         | 12588    | 116.00   | 118.00 | 2.00         | 71      | 1   | 4   | 1    | 10       | 5    | 0.1  | <5  | 0.4  | 0.03  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12589    | 118.00   | 120.00 | 2.00         | 24      | 1   | 4   | 1    | 11       | 2    | 0.1  | <5  | 0.4  | 0.04  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12590    | STD SE-2 |        |              | >100000 | 168 | 469 | 9223 | >10000.0 | 4296 | 85.6 | 755 | 22.1 | 0.04  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12591    | 120.00   | 122.00 | 2.00         | 56      | 1   | 3   | 2    | 9        | 5    | 0.1  | <5  | 0.3  | 0.06  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12592    | 122.00   | 124.00 | 2.00         | 23      | 0   | 3   | 1    | 10       | 2    | 0.1  | <5  | 0.3  | 0.03  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12593    | 124.00   | 126.00 | 2.00         | 53      | 1   | 5   | 1    | 14       | 3    | 0.1  | <5  | 0.4  | 0.04  |
| 128.75             | 135.50 | Trbs       | Weak-mod ep-chl-hem-gar skarn alt'd bedded siltstone, intermixed lst bx and dark grey-green calcareous sst. 2-5% py - diss and as semi-massive patches. Minor qtz veining (ie at 32.2 m is 6 cm zone of veining at 45°).                                                                                                                                                                                                                                                                 | 12594    | 126.00   | 127.45 | 1.45         | 43      | 1   | 2   | 2    | 17       | 11   | 0.1  | <5  | 0.4  | 0.04  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12595    | 127.45   | 128.75 | 1.30         | 161     | 9   | 25  | 3    | 26       | 6    | 0.2  | <5  | 2.1  | 0.05  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12596    | 128.75   | 131.00 | 2.25         | 225     | 12  | 26  | 8    | 53       | 29   | 0.7  | 7   | 1.0  | 0.03  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12597    | 131.00   | 133.00 | 2.00         | 379     | 4   | 63  | 10   | 53       | 15   | 1.0  | 6   | 1.9  | 0.02  |
| 135.50             | 138.20 | Ei1a       | Pinkish brown Kspar megacrystic Ei1a syenite dyke with upper chilled intrusive contact and lower faulted contact. Weak chl alt'n. Minor grey silica flood zones and hairline vnlt's.                                                                                                                                                                                                                                                                                                     | 12598    | 133.00   | 135.50 | 2.50         | 392     | 9   | 116 | 14   | 97       | 12   | 0.8  | <5  | 0.8  | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12599    | 135.50   | 138.20 | 2.70         | 229     | 7   | 5   | 22   | 67       | 13   | 0.3  | <5  | 0.2  | <0.02 |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12600    | BLANK    |        |              | 60      | 3   | 4   | 23   | 76       | 16   | 0.6  | 8   | <0.1 | <0.02 |
| 138.20             | 139.50 | FAULT ZONE | Strong fault zone with gouge and tectonic bx and intense argillic alt'n, at 45°.                                                                                                                                                                                                                                                                                                                                                                                                         | 12601    | 138.20   | 139.50 | 1.30         | 405     | 12  | 45  | 11   | 65       | 12   | 0.2  | <5  | 3.3  | 0.03  |
|                    |        |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 139.50             | 141.85 | Trbl (bx)  | Mottled green-grey-pinkish lst bx as above, with common cc vnlt's.                                                                                                                                                                                                                                                                                                                                                                                                                       | 12602    | 139.50   | 141.85 | 2.35         | 126     | 2   | 11  | 3    | 17       | 4    | 0.1  | <5  | 0.5  | 0.03  |



| DOMINANT ROCK TYPE |        |                                              | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
| 141.85             | 150.60 | Ep-hem-px/<br>chl-gar<br>skarn alt'd<br>Trbs | Mottled dark grey-green, str calcareous siltstone or volcanic siltstone with patchy strong ep-hem-px (+chl) and minor garnet skarn. Local irregular zones of patches of white-grey silica flooding. 5% py - diss and as semi-massive patches, commonly assoc with zones of str ep alt'n. Common cc vnlt.                                                                                                                                                              | 12603    | 141.85   | 144.85 | 3.00         | 184     | 4   | 17  | 15   | 69       | 11   | 0.4  | <5  | 1.2  | <0.02 |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12604    | 144.85   | 147.85 | 3.00         | 610     | 7   | 79  | 22   | 117      | 12   | 0.5  | 7   | 0.6  | <0.02 |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12605    | 147.85   | 150.60 | 2.75         | 245     | 2   | 70  | 9    | 94       | 13   | 0.6  | <5  | 0.8  | <0.02 |
|                    |        |                                              | 142.5 - 144.0 Fault Zone with tectonic bx (mixed lst bx and skarn) + fault gouge + v broken core                                                                                                                                                                                                                                                                                                                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 150.60             | 163.55 | Ei1                                          | Typical massive fresh pinkish brown mod magnetic Kspar-biotite phyrlic syenite dyke with intrusive chilled contacts. Upper at 40°, lower at 45°.                                                                                                                                                                                                                                                                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 163.55             | 167.25 | Strong ep-gar skarn                          | Very siliceous strong ep-gar skarn alt'd calcareous seds, as in 141.85 - 150.60.                                                                                                                                                                                                                                                                                                                                                                                      | 12606    | 163.55   | 165.55 | 2.00         | 285     | 1   | 7   | 4    | 39       | 17   | 1.4  | <5  | 0.2  | 0.02  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12607    | 165.55   | 167.25 | 1.70         | 77      | 1   | 14  | 6    | 63       | 19   | 0.9  | <5  | 0.3  | <0.02 |
| 167.25             | 173.37 | Zone of<br>dyking and<br>faulting            | Mixed zone of fine grained dark grey +/- magnetic aphanitic to fine px phyrlic, prob Ei1b but maybe Ei2 dykes + fault gouge and bx + narrow zones of Trbs (skarn alt'd) and lst bx between dykes. Dykes are fresh, unaltered. There is no widespread argillic alteration accompanying this zone of faulting/dyking.                                                                                                                                                   |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 173.37             | 192.20 | Trbl (bx)                                    | Coarse mosaic type lst bx as in previous holes, with minor calcareous siltstone infilling between bx frags. Mtrx may be weak-mod ep skarn alt'd. Also minor fine grained calcareous chert pebble conglomerate interbeds and fine grained calcareous siltstone interbeds (which are pref mod ep alt'd). Minor patchy irregular grey strongly silic'd zones, particularly 185.0 - 192.2 m (or possibly this is primarily chert/silica rather than replacement silic'n). | 12608    | 173.37   | 176.00 | 2.63         | 160     | 1   | 26  | 2    | 19       | 17   | 0.5  | <5  | 0.7  | 0.03  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12609    | 176.00   | 179.00 | 3.00         | 150     | 4   | 18  | 2    | 30       | 15   | 0.4  | <5  | 2.1  | 0.03  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12610    | STD SE-2 |        |              | >100000 | 163 | 470 | 9256 | >10000.0 | 4374 | 84.7 | 748 | 22.3 | 0.06  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12611    | 179.00   | 180.68 | 1.68         | 127     | 2   | 9   | 2    | 34       | 10   | 0.3  | <5  | 1.1  | 0.04  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12612    | 180.68   | 180.96 | 0.28         | 149     | 1   | 14  | 3    | 32       | 6    | 0.1  | <5  | 0.7  | 0.05  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12613    | 180.96   | 182.40 | 1.44         | 527     | 5   | 25  | 6    | 94       | 17   | 0.2  | <5  | 2.7  | 0.11  |
|                    |        |                                              | @ 180.0 strong slickensides on frac at 20°                                                                                                                                                                                                                                                                                                                                                                                                                            | 12614    | 182.40   | 185.00 | 2.60         | 302     | 2   | 21  | 22   | 59       | 14   | 0.5  | 8   | 0.9  | 0.03  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12615    | 185.00   | 188.00 | 3.00         | 112     | 2   | 18  | 3    | 15       | 5    | 0.6  | <5  | 1.0  | <0.02 |
|                    |        |                                              | 180.68 - 180.96 Zone of silic'n, bx'n and white cc vning                                                                                                                                                                                                                                                                                                                                                                                                              | 12616    | 188.00   | 191.00 | 3.00         | 39      | 2   | 7   | 2    | 6        | 3    | 0.8  | <5  | 0.4  | 0.15  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12617    | 191.00   | 194.00 | 3.00         | 69      | 2   | 7   | 2    | 19       | 3    | 0.4  | <5  | 0.5  | 0.11  |
|                    |        |                                              | 181.2 - 182.4 Fault Zone. Gouge + v broken core. 10% py throughout. Includes narrow gd? dyke + 5 cm piece of str qtz bx with white angular qtz frags in grey-green silic'd mtrx. Possible overall trend to fault is 30°.                                                                                                                                                                                                                                              | 12618    | 194.00   | 197.00 | 3.00         | 66      | 2   | 14  | 2    | 19       | 2    | 0.4  | <5  | 0.6  | 0.14  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12619    | 197.00   | 200.00 | 3.00         | 213     | 2   | 39  | 5    | 71       | 3    | 0.5  | <5  | 2.9  | 0.12  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12620    | BLANK    |        |              | 54      | 2   | 3   | 20   | 67       | 19   | 0.6  | <5  | <0.1 | <0.02 |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12621    | 200.00   | 203.00 | 3.00         | 111     | 1   | 7   | 4    | 99       | 4    | 0.5  | <5  | 2.1  | 0.06  |
| 192.20             | 251.23 | Trbl<br>+<br>interbedded<br>Trbs             | Pale grey massive bedded lst and limey sst (not lst bx as above) with common fng (+/- calcareous) siltstone, sandstone-fine conglom interbeds. Well dev bedding at 45°-60°. Minor grey cherty beds and minor lst bx.                                                                                                                                                                                                                                                  | 12622    | 203.00   | 206.00 | 3.00         | 189     | 1   | 29  | 3    | 63       | 4    | 0.3  | <5  | 2.9  | 0.16  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12623    | 206.00   | 209.00 | 3.00         | 134     | 1   | 24  | 3    | 47       | 4    | 0.5  | <5  | 2.0  | 0.11  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12624    | 209.00   | 212.00 | 3.00         | 226     | 1   | 32  | 6    | 65       | 6    | 0.7  | <5  | 4.7  | 0.11  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12625    | 212.00   | 215.00 | 3.00         | 180     | 1   | 30  | 4    | 21       | 9    | 1.2  | <5  | 5.4  | 0.13  |
|                    |        |                                              | 192.2 - 215.0 Siltstone interbeds are preferentially mod-str epidote alt'd with local wk garnet al'tn.                                                                                                                                                                                                                                                                                                                                                                | 12626    | 215.00   | 218.00 | 3.00         | 362     | 1   | 50  | 5    | 30       | 12   | 1.5  | <5  | 6.8  | 0.06  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12627    | 218.00   | 221.00 | 3.00         | 317     | 1   | 42  | 6    | 51       | 9    | 1.1  | <5  | 4.1  | 0.09  |
|                    |        |                                              | 240.8 - 243.8 Mottled grey-white-pale yellowish texture in lst. Local zones of weak to very strong pervasive silic'n. Common massive white cc (+/- qtz) vning (cm scale) +/- bx vns.                                                                                                                                                                                                                                                                                  | 12628    | 221.00   | 224.00 | 3.00         | 327     | 1   | 67  | 6    | 43       | 8    | 1.0  | <5  | 3.4  | 0.08  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12629    | 224.00   | 227.00 | 3.00         | 162     | 1   | 27  | 5    | 25       | 8    | 0.8  | <5  | 1.8  | 0.15  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12630    | STD SE-2 |        |              | >100000 | 157 | 515 | 9441 | >10000.0 | 4380 | 95.9 | 788 | 21.8 | 0.04  |
|                    |        |                                              | 243.8 - 246.6 > siliceous siltstone and cherty interbeds than above and << limestone. Well developed bedding at 65°. Pale-dark grey alternating mm-cm scale beds. Local pinkish hue - v hard, poss albite? alt'n. Contains several 3-8 cm dykes of pale pinkish grey px phyrlic siliceous intrusive (as below) as bedding parallel and x-cutting dykelets.                                                                                                            | 12631    | 227.00   | 230.00 | 3.00         | 298     | 1   | 25  | 12   | 57       | 17   | 0.6  | <5  | 4.8  | 0.09  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12632    | 230.00   | 233.00 | 3.00         | 237     | 1   | 34  | 7    | 31       | 8    | 0.5  | <5  | 2.7  | 0.19  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12633    | 233.00   | 236.00 | 3.00         | 270     | 1   | 41  | 9    | 41       | 20   | 0.8  | <5  | 3.4  | 0.10  |
|                    |        |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12634    | 236.00   | 239.00 | 3.00         | 209     | 2   | 52  | 4    | 43       | 21   | 0.6  | <5  | 3.0  | 0.12  |

| DOMINANT ROCK TYPE |        |                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SAMPLE   |          |        |              | Ag      | Au   | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|------|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB  | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |                                             | 247.3 - 251.23 Contains interbeds of grey fine grained str calcareous limey sst with 10% 2-3 mm white soft sub-anhedral possible relic fsp xtals (= volcanic sst?) that give rock an almost intrusive like appearance, but maybe these are oolitic interbeds?? (see this lower in hole where it is more clear)                                                                                                                                                                            | 12635    | 239.00   | 240.80 | 1.80         | 309     | 5    | 38  | 6    | 54       | 54   | 0.9  | <5  | 3.4  | 0.17  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12636    | 240.80   | 243.80 | 3.00         | 248     | 15   | 34  | 10   | 35       | 47   | 1.1  | <5  | 3.5  | 0.17  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12637    | 243.80   | 246.80 | 3.00         | 209     | 2    | 30  | 10   | 51       | 17   | 1.2  | <5  | 4.9  | 0.05  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12638    | 246.80   | 249.80 | 3.00         | 197     | 2    | 20  | 4    | 42       | 21   | 0.8  | <5  | 2.9  | 0.13  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12639    | 249.80   | 251.23 | 1.43         | 482     | 2    | 36  | 7    | 45       | 28   | 1.4  | <5  | 3.0  | 0.06  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12640    | BLANK    |        |              | 41      | 3    | 3   | 14   | 64       | 5    | 0.3  | <5  | <0.1 | <0.02 |
| 251.23             | 270.55 | Ei1b                                        | Massive fresh unaltered pinkish medium grained mod magnetic fsp-biotite-px syenite with irregular intrusive contacts, upper at ~30° and lower at 60°. Minor cc vnlt. Minor chl frags with slickensides.<br>261.2 = THIN SECTION                                                                                                                                                                                                                                                           |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |                                             | 267.60 - 268.15 Muddy brown chilled Kspar phyric Ei1a syenite dyke. Lower contact has narrow gouge zone. Not clear which cuts which here (but earlier observations suggests Ei2 predates Ei1a and Ei1b).                                                                                                                                                                                                                                                                                  |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 270.55             | 284.85 | Trbl                                        | Pale grey massive to weakly bedded limestone with minor oolitic interbeds (see chert nuclei with white carb rims), minor grey-pinkish grey-green siltstone, cherty siltstone, chert pebble conglomerate and calcareous siltstone interbeds, but << abundant than above (192.2 - 251.23 m). Chert pebble conglom also occurs as very irregular zones and as rare isolated chert pebbles in massive limestone. Possible weak-mod local pervasive silic'n, but likely this is primary chert. | 12641    | 270.55   | 273.50 | 2.95         | 186     | 2    | 26  | 6    | 65       | 24   | 0.6  | <5  | 3.2  | 0.10  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12642    | 273.50   | 276.50 | 3.00         | 106     | 1    | 18  | 3    | 45       | 26   | 0.5  | <5  | 3.0  | 0.14  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12643    | 276.50   | 279.50 | 3.00         | 97      | 1    | 15  | 2    | 23       | 22   | 0.5  | <5  | 2.1  | 0.15  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12644    | 279.50   | 282.50 | 3.00         | 83      | 24   | 10  | 1    | 19       | 30   | 0.4  | <5  | 1.8  | 0.15  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12645    | 282.50   | 284.85 | 2.35         | 267     | 1    | 28  | 7    | 49       | 40   | 1.2  | <5  | 2.5  | 0.12  |
|                    |        |                                             | 278.5 - 280.5 Limestone bx with pale greenish hue and patchy zones of massive talc (or clay?) as alteration of matrix between bx frags<br>279.0 = THIN SECTION                                                                                                                                                                                                                                                                                                                            |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 284.85             | 290.55 | Ei1a +/- fault zone, argillic alt and vning | Pinkish grey Kspar megacrystic syenite as dyke swarm in fault zone. Frequent chilled sections of dyke and local argillic alt'n and veining.                                                                                                                                                                                                                                                                                                                                               | 12646    | 284.85   | 287.22 | 2.37         | 93      | 1    | 7   | 13   | 43       | 13   | 0.4  | <5  | 0.7  | <0.02 |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12647    | 287.22   | 287.86 | 0.64         | 137     | 29   | 6   | 31   | 17       | 36   | 0.6  | <5  | 0.5  | 0.05  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12648    | 287.86   | 290.55 | 2.69         | 105     | 3    | 7   | 16   | 49       | 6    | 0.4  | 6   | 0.7  | <0.02 |
|                    |        |                                             | 286.8 - 287.22 weakly bleached with 2-4 mm qtz-cc vn at 0°                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |                                             | 287.22 - 287.86 Bleached, str argillic alt'd Ei1a dyke with 30% of interval as cm scale qtz-cc-clay stockwork vning and bx zones. Overall zone orientation is 50°.                                                                                                                                                                                                                                                                                                                        |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
|                    |        |                                             | 290.25 - 290.55 Strong fault zone - bx + fault gouge, at 60°.                                                                                                                                                                                                                                                                                                                                                                                                                             |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 290.55             | 294.38 | Interbedded Trbl & Trbs                     | Interbedded Trbl and siliceous Trbs, as in 192.2 - 251.23, with well developed bedding at 70°. @ 292.65 3 cm-scale pinkish fine grained intrusive dykelets parallel to bedding. Dykelets are strongly magnetic and contain up to 30% bluey-grey magnetite with pale garnet.                                                                                                                                                                                                               | 12649    | 290.55   | 292.55 | 2.00         | 81      | 1    | 11  | 13   | 50       | 35   | 0.7  | <5  | 0.9  | 0.08  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12650    | STD SE-2 |        |              | >100000 | 154  | 450 | 9401 | >10000.0 | 4167 | 91.5 | 752 | 20.8 | 0.06  |
|                    |        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13801    | 292.55   | 294.38 | 1.83         | 118     | <0.2 | 13  | 14   | 38       | 46   | 0.6  | <5  | 0.6  | 0.07  |
|                    |        |                                             | 292.65 = THIN SECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 294.38             | 297.75 | Ei1a                                        | Pinkish grey Ei1a Kspar megacrystic syenite. Irregular intrusive contact at 294.38, at 60°, with chilled margin. Hole ends in Ei1a.                                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |         |      |     |      |          |      |      |     |      |       |
| 297.75             | EOH    |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |        |              |         |      |     |      |          |      |      |     |      |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 1.45     | 2.13        | 68       |
| 1     | 5.18       | 8.23     | 3.05     | 3.05        | 100      |
| 1/2   | 8.23       | 11.28    | 3.05     | 3.05        | 100      |
| 2     | 11.28      | 14.32    | 3.04     | 3.04        | 100      |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3/4   | 17.37      | 20.42    | 2.99     | 3.05        | 98       |
| 4     | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4/5   | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 3.05     | 3.05        | 100      |
| 5/6   | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 6     | 32.61      | 35.66    | 3.05     | 3.05        | 100      |
| 6/7   | 35.66      | 38.70    | 3.04     | 3.04        | 100      |
| 7/8   | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 8     | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8/9   | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 9     | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9/10  | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10    | 53.94      | 56.99    | 3.05     | 3.05        | 100      |
| 11    | 56.99      | 60.04    | 2.95     | 3.05        | 97       |
| 11/12 | 60.04      | 63.09    | 3.05     | 3.05        | 100      |
| 12    | 63.09      | 66.13    | 3.04     | 3.04        | 100      |
| 12/13 | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 13    | 69.18      | 72.23    | 3.05     | 3.05        | 100      |
| 13/14 | 72.23      | 75.28    | 3.05     | 3.05        | 100      |
| 14/15 | 75.28      | 78.32    | 3.00     | 3.04        | 99       |
| 15    | 78.32      | 81.37    | 3.05     | 3.05        | 100      |
| 15/16 | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 16    | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16/17 | 87.47      | 90.51    | 2.88     | 3.04        | 95       |
| 17/18 | 90.51      | 93.56    | 3.05     | 3.05        | 100      |
| 18    | 93.56      | 96.61    | 3.00     | 3.05        | 98       |
| 18/19 | 96.60      | 99.65    | 3.01     | 3.05        | 99       |
| 19    | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 19/20 | 102.70     | 105.75   | 3.05     | 3.05        | 100      |
| 20/21 | 105.75     | 108.80   | 3.00     | 3.05        | 98       |
| 21    | 108.80     | 111.85   | 2.95     | 3.05        | 97       |
| 21/22 | 111.85     | 114.90   | 3.05     | 3.05        | 100      |
| 22    | 114.90     | 117.94   | 3.04     | 3.04        | 100      |
| 22/23 | 117.94     | 120.99   | 3.05     | 3.05        | 100      |
| 23    | 120.99     | 124.04   | 3.05     | 3.05        | 100      |
| 23/24 | 124.04     | 127.09   | 3.05     | 3.05        | 100      |
| 24    | 127.09     | 130.13   | 3.04     | 3.04        | 100      |
| 25    | 130.13     | 133.18   | 3.03     | 3.05        | 99       |
| 25/26 | 133.18     | 136.23   | 2.86     | 3.05        | 94       |
| 26    | 136.23     | 139.28   | 2.98     | 3.05        | 98       |
| 26/27 | 139.28     | 142.32   | 2.95     | 3.04        | 97       |
| 27    | 142.32     | 145.37   | 3.05     | 3.05        | 100      |
| 27/28 | 145.37     | 148.42   | 3.05     | 3.05        | 100      |
| 28    | 148.42     | 151.47   | 3.05     | 3.05        | 100      |
| 29    | 151.47     | 154.51   | 3.04     | 3.04        | 100      |
| 29/30 | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 30    | 157.56     | 160.61   | 3.05     | 3.05        | 100      |
| 30/31 | 160.61     | 163.66   | 3.05     | 3.05        | 100      |
| 31    | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 31/32 | 166.70     | 169.75   | 3.05     | 3.05        | 100      |
| 32    | 169.75     | 172.80   | 3.05     | 3.05        | 100      |
| 32/33 | 172.80     | 175.85   | 3.05     | 3.05        | 100      |
| 33    | 175.85     | 178.90   | 3.05     | 3.05        | 100      |
| 33/34 | 178.90     | 181.94   | 2.90     | 3.04        | 95       |
| 34/35 | 181.94     | 184.99   | 2.85     | 3.05        | 93       |
| 35    | 184.99     | 188.04   | 3.05     | 3.05        | 100      |
| 35/36 | 188.04     | 191.09   | 3.05     | 3.05        | 100      |
| 36    | 191.09     | 194.13   | 3.04     | 3.04        | 100      |
| 36/37 | 194.13     | 197.18   | 3.00     | 3.05        | 98       |
| 37/38 | 197.18     | 200.23   | 3.05     | 3.05        | 100      |
| 38    | 200.23     | 203.28   | 3.05     | 3.05        | 100      |
| 38/39 | 203.28     | 206.32   | 2.95     | 3.04        | 97       |

|       |        |        |      |      |     |
|-------|--------|--------|------|------|-----|
| 39    | 206.32 | 209.37 | 3.05 | 3.05 | 100 |
| 39/40 | 209.37 | 212.42 | 3.05 | 3.05 | 100 |
| 40    | 212.42 | 215.47 | 3.05 | 3.05 | 100 |
| 40/41 | 215.47 | 218.51 | 3.04 | 3.04 | 100 |
| 41    | 218.51 | 221.56 | 3.05 | 3.05 | 100 |
| 42    | 221.56 | 224.61 | 3.05 | 3.05 | 100 |
| 42/43 | 224.61 | 227.66 | 3.05 | 3.05 | 100 |
| 43    | 227.66 | 230.70 | 3.04 | 3.04 | 100 |
| 43/44 | 230.70 | 233.75 | 3.05 | 3.05 | 100 |
| 44    | 233.75 | 236.80 | 3.05 | 3.05 | 100 |
| 44/45 | 236.80 | 239.85 | 3.05 | 3.05 | 100 |
| 45    | 239.85 | 242.90 | 3.05 | 3.05 | 100 |
| 45/46 | 242.90 | 245.94 | 3.04 | 3.04 | 100 |
| 46    | 245.94 | 248.99 | 3.05 | 3.05 | 100 |
| 47    | 248.99 | 252.04 | 3.05 | 3.05 | 100 |
| 47/48 | 252.04 | 255.09 | 3.05 | 3.05 | 100 |
| 48    | 255.09 | 258.13 | 3.04 | 3.04 | 100 |
| 48/49 | 258.13 | 261.18 | 3.05 | 3.05 | 100 |
| 49    | 261.18 | 264.23 | 3.05 | 3.05 | 100 |
| 49/50 | 264.23 | 267.28 | 3.05 | 3.05 | 100 |
| 50/51 | 267.28 | 270.32 | 3.03 | 3.04 | 100 |
| 51    | 270.32 | 273.37 | 3.05 | 3.05 | 100 |
| 51/52 | 273.37 | 276.42 | 3.05 | 3.05 | 100 |
| 52    | 276.42 | 279.47 | 3.05 | 3.05 | 100 |
| 52/53 | 279.47 | 282.51 | 3.04 | 3.04 | 100 |
| 53    | 282.51 | 285.56 | 3.05 | 3.05 | 100 |
| 53/54 | 285.56 | 288.61 | 3.05 | 3.05 | 100 |
| 54    | 288.61 | 291.66 | 2.93 | 3.05 | 96  |
| 55    | 291.66 | 294.70 | 3.04 | 3.04 | 100 |
| 55/56 | 294.70 | 297.75 | 2.92 | 3.05 | 96  |
|       | 297.75 | EOH    |      |      |     |

PROPERTY: Minnie Moore  
 HOLE: MM 07-9

Collar UTM Easting: 387414 Nad 83  
 Northing: 5444133  
 Grid Easting:  
 Northing:

Purpose: From same set-up as MM07-8, to test Minnie Moore zone deeper in section

Azimuth: 90  
 Dip: -58  
 Depth: 188.04 m 617'  
 Elevation: 1110 m  
 Dip Test: none

Started: Nov 6/07  
 Completed: Nov 8/07  
 Drilled by: More Core Drilling  
 Logged by: Linda Caron  
 Operator: Kettle River Resources  
 Core NQ2

Note: All angles listed in log are with respect to core axis.

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                 | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                             | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
| 0.00               | 3.05   | Casing    |                                                                                                                                                                                                                                                                                             |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 3.05               | 66.53  | Ei2       | Typical fresh dark grey weakly magnetic fsp-px-biotite Ei2 monzodior, as in previous holes.                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 16.90 - 21.03 Typical fresh pink Kspar megacrystic weakly magnetic Ei1a syenite dyke with chilled margins. Upper contact at 80°, lower contact irregular at ~ 55°.                                                                                                                          |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 26.72 - 29.18 Pink Kspar megacrystic weakly magnetic Ei1a syenite dyke with chilled margins.                                                                                                                                                                                                | 13802    | 28.10    | 28.60  | 0.50         | 88  | 2   | 12  | 17  | 58  | 2   | 0.3 | 20  | 0.2  | <0.02 |
|                    |        |           | 28.60 - 28.70 grey-white mottled qtz/silica vein with 5-10% fine pyrite, possibly at 90°. Minor vugs. Weak Fe ox frags. Vn is one 6.5 cm piece + several ground frags of core in Kspar phyrlic                                                                                              | 13803    | 28.60    | 28.70  | 0.10         | 92  | 5   | 12  | 9   | 23  | 10  | 0.5 | 35  | 0.9  | 0.10  |
|                    |        |           | Ei1a dyke with no alt'n adj to vein (or very very weak argillic alt'n).                                                                                                                                                                                                                     | 13804    | 28.70    | 29.20  | 0.50         | 116 | 1   | 12  | 16  | 62  | 2   | 0.2 | 14  | 0.1  | <0.02 |
|                    |        |           | 29.5 - 33.0 minor clay-carb filled fracs in fresh Ei2.                                                                                                                                                                                                                                      |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 36.70 - 46.85 Fresh pink massive medium grained fsp-bi-px Ei1b intrusive. Mod magnetic. Chilled intrusive upper contact at 70°. Chilled lower contact with later narrow gouge zone at 70°.                                                                                                  |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | <b>48.95 - 60.70 Zone of strong faulting, dyking + local veining/stockwork, as follows:</b>                                                                                                                                                                                                 | 13805    | 48.95    | 51.00  | 2.05         | 106 | 2   | 17  | 11  | 55  | 5   | 0.2 | 10  | 0.2  | 0.02  |
|                    |        |           | 48.95 - 54.95 Kspar megacrystic Ei1a dyke, becoming increasingly pervasive argillic altered                                                                                                                                                                                                 | 13806    | 51.00    | 53.00  | 2.00         | 103 | 1   | 4   | 30  | 75  | 1   | 0.2 | 6   | 0.1  | <0.02 |
|                    |        |           | down section. Upper contact is very irregular intrusive contact with chilled margin.                                                                                                                                                                                                        | 13807    | 53.00    | 54.15  | 1.15         | 77  | 1   | 4   | 26  | 62  | 2   | 0.2 | 18  | <0.1 | <0.02 |
|                    |        |           | 48.95 - 53.0 minor clay filled fracs and very weak pervasive alt'n                                                                                                                                                                                                                          | 13808    | 54.15    | 54.95  | 0.80         | 231 | 4   | 13  | 33  | 69  | 5   | 0.3 | 8   | 0.2  | <0.02 |
|                    |        |           | 53.0 - 54.15 common str clay-carb (+/- qtz?) filled fracs and vns (+/- bx), to 1 cm, at 70° + weak bleaching and pervasive argillic alt'n.                                                                                                                                                  | 13809    | 54.95    | 56.00  | 1.05         | 230 | 3   | 28  | 17  | 55  | 7   | 0.4 | 12  | 0.2  | 0.05  |
|                    |        |           | 54.15 - 54.95 Pale grey bleached with str perv argillic alt'n. Relic Kspar megacrysts preserved.                                                                                                                                                                                            | 13810    | BLANK    |        |              | 45  | 1   | 2   | 20  | 61  | 12  | 0.3 | 9   | 0.2  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                             | 13811    | 57.50    | 59.00  | 1.50         | 158 | 11  | 41  | 7   | 70  | 66  | 0.5 | <5  | 0.5  | 0.05  |
|                    |        |           | 54.95 - 57.50 Fault gouge and tectonic bx. Protolith is Ei (1 & 2?) + possible Trbs, but all are intensely argillic alt'd and locally intensely silic'd. 20% white clay-carb stockwork veining throughout.                                                                                  | 13813    | 59.00    | 60.70  | 1.70         | 168 | 32  | 31  | 11  | 70  | 43  | 0.3 | 9   | 0.2  | 0.06  |
|                    |        |           | 57.50 - 60.70 Tan-pale grey aphanitic calcareous Trbs with relic bedding visible at 60°. Weak-mod bleached and local perv clay (+ carb) alt'n. Minor gouge zones. Interval contains 10% cc-clay vnlts and 10% massive white-pale grey zones of (aphanitic, massive) qtz bx vning, to 14 cm. |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |           | 60.70 - 66.53 Back into good massive Ei2, mostly very fresh but locally is weak-mod bleached and has massive soapy white clay vns, to 3 cm.                                                                                                                                                 | 13814    | 60.70    | 62.60  | 1.90         | 111 | 4   | 50  | 18  | 64  | 8   | 0.3 | 5   | 0.3  | 0.07  |
|                    |        |           | 61.85 - 62.60 Bleached, pale-med grey, mod perv argillic alt'n + clay vein.                                                                                                                                                                                                                 |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 66.53              | 108.06 | Trbs      | 66.53 - 89.0 Interbedded aphanitic muddy grey-brown calcareous siliceous siltstone and pale grey                                                                                                                                                                                            | 13815    | 66.53    | 69.00  | 2.47         | 210 | 7   | 35  | 6   | 47  | 48  | 1.3 | 8   | 1.4  | 0.15  |

| DOMINANT ROCK TYPE |        |                    | DESCRIPTION                                                                                                                                                                                                                                                                         | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As       | Sb   | Hg  | Se   | Te    |
|--------------------|--------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|----------|------|-----|------|-------|
| From (m)           | To (m) | Lithology          |                                                                                                                                                                                                                                                                                     | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM      | PPM  | PPB | PPM  | PPM   |
|                    |        | (+ Trbl interbeds) | lst/limey sst, as in previous holes. Siltstone is bedded at 60° and cut by network of hairline py-chl +/- cc vnlt +/- bleached alteration selvages. Minor cc veining and common chl frags. 2-5% diss py. Local bleached pinkish albite? alteration.                                 | 13816    | 69.00    | 72.00  | 3.00         | 186     | 4   | 32  | 7    | 35       | 39       | 1.3  | 8   | 0.8  | 0.11  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13817    | 72.00    | 75.00  | 3.00         | 235     | 3   | 43  | 8    | 43       | 65       | 2.4  | <5  | 1.0  | 0.11  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13818    | 75.00    | 78.00  | 3.00         | 208     | 14  | 46  | 5    | 39       | 45       | 2.0  | <5  | 1.5  | 0.06  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13819    | 78.00    | 81.00  | 3.00         | 176     | 4   | 50  | 5    | 41       | 48       | 1.6  | <5  | 1.2  | 0.04  |
|                    |        |                    | @ 87.3 slickensides on cc frac at 45°                                                                                                                                                                                                                                               | 13820    | STD SE-2 |        |              | >100000 | 159 | 435 | 8652 | >10000.0 | 3985     | 82.6 | 773 | 18.5 | 0.04  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13821    | 81.00    | 84.00  | 3.00         | 133     | 7   | 28  | 4    | 34       | 183      | 1.6  | <5  | 0.6  | <0.02 |
|                    |        |                    | 89.0 - 98.91 Pale grey-green siliceous siltstone, typically very hard and non-calcareous, with minor interbedded pale grey lst/limey sst and dark grey chert. Well dev bedding at 60°. Unit is more massive and more coarsely bedded than above and << calcareous << py than above. | 13822    | 84.00    | 87.00  | 3.00         | 119     | 7   | 18  | 7    | 65       | 223      | 2.2  | <5  | 0.5  | 0.03  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13823    | 87.00    | 90.00  | 3.00         | 129     | 5   | 34  | 6    | 46       | 700      | 9.5  | <5  | 0.9  | <0.02 |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13824    | 90.00    | 93.00  | 3.00         | 143     | 1   | 84  | 5    | 26       | 74       | 0.9  | <5  | 1.2  | 0.03  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13825    | 93.00    | 96.00  | 3.00         | 78      | 1   | 41  | 3    | 12       | 146      | 0.7  | <5  | 0.9  | <0.02 |
|                    |        |                    | 98.91 - 99.1 narrow chilled Ei dyke with intrusive contacts, at 60°.                                                                                                                                                                                                                | 25651    | 96.00    | 99.30  | 3.30         | 90      | 2   | 43  | 3    | 31       | 128      | 1.2  | <5  | 1.1  | <0.02 |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 25652    | 99.30    | 99.50  | 0.20         | 299     | 38  | 24  | 5    | 40       | 620      | 2.6  | <5  | 1.3  | 0.04  |
|                    |        |                    | 99.1 - 108.06 Similar to above but becomes >> calcareous again. Interbedded pale grey siltstone and limestone/limey sst but limestone and siltstone are >> siliceous/calc silicate alt'd & pyritic than above.                                                                      | 25653    | 99.50    | 102.50 | 3.00         | 206     | 3   | 61  | 6    | 41       | 128      | 1.6  | <5  | 1.3  | 0.04  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13826    | 102.50   | 105.50 | 3.00         | 203     | 2   | 54  | 4    | 25       | 133      | 1.8  | <5  | 1.2  | 0.07  |
|                    |        |                    | Local weak-mod ep alt'n in siltstone bands. Very minor mm scale qtz-cc vnlt. Silic'd (or cherty?) limestone has pervasive silica and very fine silica veinlets (x-cutting bedding) and 2-5% very fine dissem py.                                                                    | 13827    | 105.50   | 107.96 | 2.46         | 301     | 7   | 54  | 8    | 36       | 77       | 1.8  | <5  | 2.1  | 0.10  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13828    | 107.96   | 108.06 | 0.10         | 1502    | 45  | 27  | 56   | 105      | >10000.0 | 80.7 | 25  | 3.0  | 0.21  |
|                    |        |                    | @ 106.70 = THIN SECTION                                                                                                                                                                                                                                                             |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
|                    |        |                    | 99.3 - 99.5 Zone of cc (+ < qtz) veining at 50°. Interval is comprised of ~ 35% cm-scale vnlt, with larger vnlt parallel to trend of zone and stockwork of smaller veinlets between them.                                                                                           |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
|                    |        |                    | 107.96 - 108.06 4-5 cm white-grey banded qtz-cc vn at 45°, with narrow gouge zone on lower contact. 5% fine py.                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
| 108.06             | 119.00 | Trbl (jb)          | Dominantly a fine grained matrix supported chert pebble conglomerate to very coarse sst, with minor lst and siltstone beds.                                                                                                                                                         | 13829    | 108.06   | 111.00 | 2.94         | 324     | 4   | 47  | 7    | 33       | 61       | 3.2  | <5  | 1.8  | 0.07  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13830    | BLANK    |        |              | 93      | 6   | 5   | 31   | 62       | 53       | 0.5  | <5  | 0.2  | <0.02 |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13831    | 111.00   | 114.00 | 3.00         | 46      | 2   | 8   | 2    | 13       | 6        | 0.3  | <5  | 0.4  | <0.02 |
|                    |        |                    | 108.06 - 109.60 Mottled pale grey siliceous (cherty?) limestone. Massive, very fine grained with well developed bedding at 45° and 2-5% v fine py - diss and with chl in bands/vnlt parallel to bedding and x-cutting.                                                              | 13832    | 114.00   | 117.00 | 3.00         | 107     | 1   | 5   | 5    | 15       | 32       | 0.2  | <5  | 0.3  | <0.02 |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13833    | 117.00   | 119.00 | 2.00         | 283     | 2   | 21  | 11   | 31       | 13       | 0.4  | <5  | 1.9  | 0.04  |
|                    |        |                    | 109.60 - 110.1 Typical "jelly bean" conglomerate with 70% 2 mm- 1 cm sized subround grey to grey-green chert pebbles supported in a pale grey-green-white highly siliceous gmass. Non-calcareous.                                                                                   |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
|                    |        |                    | 110.1 - 118.25 Much finer grained than above. Massive coarse chert-grain sst to very fine chert pebble conglom. Strongly calcareous. Typically massive, homogeneous and lacks bedding but local minor siltstone interbeds at 50° and local mosaic type bx.                          |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
|                    |        |                    | 118.25 - 119.0 Siliceous calcareous siltstone. Mottled, med grey-green, aphanitic, weak ep alt'd siltstone with minor py.                                                                                                                                                           |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
| 119.00             | 124.30 | Ei1a               | Typical pink Ei1a Kspar megacrystic syenite. Non magnetic. Intrusive contacts with chilled margins. Upper contact is broken/ground. Lower contact at 70°.                                                                                                                           |          |          |        |              |         |     |     |      |          |          |      |     |      |       |
| 124.30             | 158.84 | Trbl (bx)          | Typical coarse mosaic-type limestone bx with pinkish tinge, as in previous holes but with slightly more calcareous siltstone/sst infilling between bx frags. 90% buff-grey-pinkish lst                                                                                              | 13834    | 124.30   | 127.00 | 2.70         | 251     | 5   | 71  | 4    | 22       | 6        | 0.5  | 6   | 0.9  | 0.03  |
|                    |        |                    |                                                                                                                                                                                                                                                                                     | 13835    | 127.00   | 129.00 | 2.00         | 18      | 1   | 6   | 3    | 12       | 3        | 0.2  | <5  | 0.4  | 0.05  |

| DOMINANT ROCK TYPE |        |              | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                         | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology    |                                                                                                                                                                                                                                                                                                                                                                                                     | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |              | clasts, 1 - >10 cm in size, with grey-green calc siltstone or grey carbonate or locally white silica between bx frags. Calc siltstone infilling between bx frags may be weak-mod ep alt'd or str chl alt'd. In places see grey silica as irregular patches partly replacing lst bx frags. Minor white qtz-cc vns and flooding (+/- vuggy) throughout, increasing down section to Minnie Moore zone. | 13836    | 129.00   | 131.00 | 2.00         | 7       | 1   | 5   | 1    | 11       | 2    | 0.1  | <5  | 0.3  | 0.05  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13837    | 131.00   | 133.00 | 2.00         | 48      | 2   | 6   | 1    | 8        | 1    | 0.1  | <5  | 0.5  | 0.04  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13838    | 133.00   | 135.00 | 2.00         | 27      | 1   | 4   | 1    | 13       | 2    | 0.1  | <5  | 0.3  | 0.05  |
|                    |        |              | 124.30 - 125.2 Mod-str perv ep alt'n + weak hem & pale brown garnet skarn alt'n adjacent to dyke contact                                                                                                                                                                                                                                                                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | @ 128.6 m 1 cm qtz-cc vn at 45°                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | @ 130.65 1 cm vuggy qtz-cc vn at 40°, "blows out" into 5 cm x 3 cm qtz flood zone in lst frag.                                                                                                                                                                                                                                                                                                      | 13839    | 135.00   | 136.00 | 1.00         | 7       | 1   | 2   | 1    | 9        | 2    | 0.1  | <5  | 0.2  | 0.06  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13840    | STD SE-2 |        |              | >100000 | 168 | 415 | 8525 | >10000.0 | 3831 | 90.1 | 704 | 19.5 | 0.03  |
|                    |        |              | <b>135.0 - 144.5 Minnie Moore Zone.</b> Zone of limestone bx with 10-20% irregular mm-cm scale white-grey qtz-cc vn stockwork and flooding. Minor fng py in vns. Pick top and bottom of zone at decrease in frequency of qtz-cc vning. No sharp contact to zone - veining continues above and below, but at a lesser frequency.                                                                     | 13841    | 136.00   | 137.00 | 1.00         | 43      | 2   | 15  | 2    | 17       | 5    | 0.1  | <5  | 0.4  | 0.08  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13842    | 137.00   | 138.00 | 1.00         | 26      | 2   | 11  | 1    | 15       | 6    | 0.1  | <5  | 0.5  | 0.04  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13843    | 138.00   | 139.00 | 1.00         | 48      | 4   | 10  | 2    | 14       | 11   | 0.1  | <5  | 0.7  | 0.05  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13844    | 139.00   | 140.00 | 1.00         | 60      | 2   | 48  | 2    | 15       | 5    | 0.1  | <5  | 0.3  | 0.10  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13845    | 140.00   | 141.00 | 1.00         | 25      | 1   | 7   | 1    | 15       | 6    | 0.1  | <5  | 0.4  | 0.05  |
|                    |        |              | 144.5 - 146.5 Fresh, pink, medium grained, mod magnetic Ei1b dyke. Very broken section with minor gouge, cc vning. Upper contact is broken. Lower contact is very irregular, faulted? at 0°.                                                                                                                                                                                                        | 13846    | 141.00   | 142.00 | 1.00         | 124     | 3   | 10  | 2    | 19       | 10   | 0.1  | <5  | 0.4  | 0.06  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13847    | 142.00   | 143.00 | 1.00         | 180     | 10  | 9   | 2    | 18       | 9    | 0.1  | 7   | 0.8  | 0.05  |
|                    |        |              | Dyke looks later than Minnie Moore Zone, but roughly coincides with end of zone (only minor white qtz-cc vning continues in limestone below dyke).                                                                                                                                                                                                                                                  | 13848    | 143.00   | 144.50 | 1.50         | 525     | 6   | 6   | 3    | 18       | 10   | 0.1  | 7   | 0.5  | 0.07  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13849    | 144.50   | 146.50 | 2.00         | 159     | 5   | 24  | 18   | 60       | 12   | 0.3  | <5  | 0.3  | <0.02 |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 13850    | BLANK    |        |              | 41      | 34  | 13  | 17   | 59       | 7    | 0.2  | <5  | <0.1 | <0.02 |
|                    |        |              | 146.5 - 152.5 Mottled pink-grey-green lst bx as above, with weak local silic'n and minor white qtz-cc vns and flooding.                                                                                                                                                                                                                                                                             | 25654    | 146.50   | 149.50 | 3.00         | 75      | 3   | 7   | 4    | 18       | 9    | 0.2  | <5  | 0.3  | 0.04  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25655    | 149.50   | 152.50 | 3.00         | 13      | 1   | 4   | 1    | 10       | 6    | 0.1  | <5  | 0.1  | 0.03  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25656    | 153.65   | 156.65 | 3.00         | 12      | 2   | 5   | 1    | 5        | 4    | 0.2  | <5  | 0.4  | 0.03  |
|                    |        |              | 152.5 - 153.65 Fine grained chilled muddy grey-brown Ei dyke. Strongly magnetic. Sharp intrusive contacts at 45°.                                                                                                                                                                                                                                                                                   | 25657    | 156.65   | 158.84 | 2.19         | 76      | 3   | 11  | 2    | 20       | 18   | 0.3  | <5  | 0.5  | 0.03  |
|                    |        |              | 153.65 - 158.84 Trbl (bx) as above.                                                                                                                                                                                                                                                                                                                                                                 |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 158.84             | 166.70 | Ei2          | Typical fine grained dark grey weakly magnetic Ei2 intrusive.                                                                                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 162.65 - 163.57 Pink, weakly magnetic fine grained Kspar phyrlic Ei1a syenite, cuts Ei2. Chilled margins and intrusive contacts, upper at 70°, lower at 60°.                                                                                                                                                                                                                                        |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 164.74 - 164.84 1st bx (xenolith?) or narrow wall rx remnant between two Ei2 dykes.                                                                                                                                                                                                                                                                                                                 |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 166.70             | 171.57 | Trbl         | Massive grey limestone, weak crackle breccia with hairline chl-py vnlt's and very minor weak pinkish tinge. Minor white cc vning.                                                                                                                                                                                                                                                                   | 25658    | 166.70   | 169.00 | 2.30         | 94      | 2   | 5   | 2    | 16       | 20   | 0.2  | <5  | 0.4  | 0.09  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25659    | 169.00   | 171.57 | 2.57         | 51      | 1   | 2   | 2    | 11       | 7    | 0.2  | <5  | 0.4  | 0.03  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25660    | STD SE-2 |        |              | >100000 | 155 | 424 | 8886 | >10000.0 | 4011 | 88.2 | 696 | 20.9 | 0.03  |
| 171.57             | 188.04 | Trbs         | Mottled grey-green-pale pinkish brown strong ep-gar (+ < px) siliceous skarn altered calcareous siltstone with minor unaltered limestone interbeds and with minor py.                                                                                                                                                                                                                               | 25661    | 171.57   | 173.57 | 2.00         | 2674    | 24  | 23  | 10   | 48       | 47   | 1.1  | <5  | 1.0  | 0.05  |
|                    |        | Strong skarn |                                                                                                                                                                                                                                                                                                                                                                                                     | 25662    | 173.57   | 175.57 | 2.00         | 610     | 2   | 21  | 55   | 110      | 12   | 1.0  | <5  | 1.4  | 0.02  |
|                    |        | alt'n        | 181.9 - 188.04 Zone of faulting and strong skarn alteration. Has common cc-chl frags with slickensides, minor gouge zones + tectonic bx & local silica flooding & bx'n. Common cc vning. Minor qtz-cc vning. >> skarn alt'd than above.                                                                                                                                                             | 25663    | 175.57   | 177.57 | 2.00         | 415     | 1   | 40  | 23   | 58       | 9    | 1.2  | <5  | 0.4  | <0.02 |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25664    | 177.57   | 179.57 | 2.00         | 448     | 2   | 48  | 10   | 143      | 10   | 1.4  | <5  | 0.4  | <0.02 |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25665    | 179.57   | 181.90 | 2.33         | 1185    | 8   | 82  | 7    | 88       | 28   | 0.9  | 6   | 0.8  | 0.04  |
|                    |        |              |                                                                                                                                                                                                                                                                                                                                                                                                     | 25666    | 181.90   | 183.00 | 1.10         | 675     | 5   | 25  | 45   | 84       | 16   | 0.8  | <5  | 0.7  | 0.18  |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|-----------|-------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology |             | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
|                    |        |           |             | 25667    | 183.00   | 185.00 | 2.00         | 352 | 3   | 48  | 13  | 42  | 8   | 1.1 | <5  | 0.2  | 0.07  |
|                    |        |           |             | 25668    | 185.00   | 187.00 | 2.00         | 732 | 3   | 14  | 96  | 118 | 18  | 0.8 | 5   | 1.8  | 0.14  |
|                    |        |           |             | 25669    | 187.00   | 188.04 | 1.04         | 461 | 2   | 18  | 27  | 84  | 11  | 0.6 | <5  | 0.8  | 0.16  |
|                    |        |           |             | 25670    | BLANK    |        |              | 50  | 3   | 2   | 19  | 64  | 8   | 0.2 | <5  | <0.1 | <0.02 |
| 188.04             | EOH    |           |             |          |          |        |              |     |     |     |     |     |     |     |     |      |       |



| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 3.05       | 5.18     | 1.50     | 2.13        | 70       |
| 1     | 5.18       | 8.23     | 3.00     | 3.05        | 98       |
| 1/2   | 8.23       | 11.28    | 3.05     | 3.05        | 100      |
| 2/3   | 11.28      | 14.32    | 2.95     | 3.04        | 97       |
| 3     | 14.32      | 17.37    | 3.00     | 3.05        | 98       |
| 3/4   | 17.37      | 20.42    | 3.05     | 3.05        | 100      |
| 4     | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4/5   | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 5     | 26.51      | 29.56    | 2.75     | 3.05        | 90       |
| 5/6   | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 6/7   | 32.61      | 35.66    | 3.05     | 3.05        | 100      |
| 7     | 35.66      | 38.70    | 3.04     | 3.04        | 100      |
| 7/8   | 38.70      | 41.75    | 3.05     | 3.05        | 100      |
| 8     | 41.75      | 44.80    | 3.05     | 3.05        | 100      |
| 8/9   | 44.80      | 47.85    | 3.05     | 3.05        | 100      |
| 9     | 47.85      | 50.90    | 2.90     | 3.05        | 95       |
| 9/10  | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10/11 | 53.94      | 56.99    | 2.95     | 3.05        | 97       |
| 11    | 56.99      | 60.04    | 2.97     | 3.05        | 97       |
| 11/12 | 60.04      | 63.09    | 3.05     | 3.05        | 100      |
| 12    | 63.09      | 66.13    | 3.04     | 3.04        | 100      |
| 12/13 | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 13    | 69.18      | 72.23    | 3.05     | 3.05        | 100      |
| 13/14 | 72.23      | 75.28    | 3.05     | 3.05        | 100      |
| 14/15 | 75.28      | 78.32    | 3.04     | 3.04        | 100      |
| 15    | 78.32      | 81.37    | 3.05     | 3.05        | 100      |
| 15/16 | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 16    | 84.42      | 87.47    | 3.00     | 3.05        | 98       |
| 16/17 | 87.47      | 90.51    | 2.83     | 3.04        | 93       |
| 17    | 90.51      | 93.56    | 2.90     | 3.05        | 95       |
| 17/18 | 93.56      | 96.61    | 3.05     | 3.05        | 100      |
| 18/19 | 96.60      | 99.65    | 3.05     | 3.05        | 100      |
| 19    | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 19/20 | 102.70     | 105.75   | 3.00     | 3.05        | 98       |
| 20    | 105.75     | 108.80   | 3.05     | 3.05        | 100      |
| 20/21 | 108.80     | 111.85   | 3.05     | 3.05        | 100      |
| 21    | 111.85     | 114.90   | 3.05     | 3.05        | 100      |
| 21/22 | 114.90     | 117.94   | 3.04     | 3.04        | 100      |
| 22    | 117.94     | 120.99   | 3.00     | 3.05        | 98       |
| 23    | 120.99     | 124.04   | 3.05     | 3.05        | 100      |
| 23/24 | 124.04     | 127.09   | 3.05     | 3.05        | 100      |
| 24    | 127.09     | 130.13   | 3.04     | 3.04        | 100      |
| 24/25 | 130.13     | 133.18   | 3.05     | 3.05        | 100      |
| 25    | 133.18     | 136.23   | 3.05     | 3.05        | 100      |
| 25/26 | 136.23     | 139.28   | 3.05     | 3.05        | 100      |
| 26    | 139.28     | 142.32   | 3.04     | 3.04        | 100      |
| 26/27 | 142.32     | 145.37   | 2.85     | 3.05        | 93       |
| 27    | 145.37     | 148.42   | 2.75     | 3.05        | 90       |
| 27/28 | 148.42     | 151.47   | 3.00     | 3.05        | 98       |
| 28/29 | 151.47     | 154.51   | 3.04     | 3.04        | 100      |
| 29    | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 29/30 | 157.56     | 160.61   | 3.03     | 3.05        | 99       |
| 30    | 160.61     | 163.66   | 3.05     | 3.05        | 100      |
| 30/31 | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 31    | 166.70     | 169.75   | 3.05     | 3.05        | 100      |
| 31/32 | 169.75     | 172.80   | 3.05     | 3.05        | 100      |
| 32    | 172.80     | 175.85   | 3.05     | 3.05        | 100      |
| 33    | 175.85     | 178.90   | 2.85     | 3.05        | 93       |
| 33/34 | 178.90     | 181.94   | 2.88     | 3.04        | 95       |
| 34    | 181.94     | 184.99   | 3.05     | 3.05        | 100      |
| 34/35 | 184.99     | 188.04   | 2.90     | 3.05        | 95       |
|       | 188.04     | EOH      |          |             |          |

PROPERTY: Minnie Moore  
 HOLE: MM 07-10

Collar UTM Easting: 387411 Nad 83  
 Northing: 5444198  
 Grid Easting:  
 Northing:

Purpose: To test flexure in mag low, on-strike to the N of MM 07-8.9

Azimuth: 90  
 Dip: -50  
 Depth: 181.94 m 597'  
 Elevation: 1102 m  
 Dip Test: none

Started: Nov 8/07  
 Completed: Nov 10/07  
 Drilled by: More Core Drilling  
 Logged by: Linda Caron  
 Operator: Kettle River Resources  
 Core NQ2

Note: All angles listed in log are with respect to core axis.

| DOMINANT ROCK TYPE |        |                                | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SAMPLE   |          |        |              | Ag  | Au  | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se   | Te    |
|--------------------|--------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|
| From (m)           | To (m) | Lithology                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB | PPM | PPM | PPM | PPM | PPM | PPB | PPM  | PPM   |
| 0.00               | 6.10   | Casing                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 6.10               | 38.00  | Ei2                            | Typical fresh dark grey weakly magnetic fsp-px-biotite Ei2 monzodior, as in previous holes.                                                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 6.1 - 10.5 v broken ground core, includes several pieces of fng Ei1.                                                                                                                                                                                                                                                                                                                                                                                                                     |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 21.6 - 22.35 Bleached mod-str argillic alt'd Ei2 with several cm-scale massive clay (kaol?) veins at 40-50°.                                                                                                                                                                                                                                                                                                                                                                             | 25671    | 21.60    | 23.42  | 1.82         | 105 | 2   | 28  | 19  | 73  | 7   | 0.5 | <5  | 0.3  | 0.08  |
|                    |        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25672    | 23.42    | 23.92  | 0.50         | 123 | 3   | 34  | 30  | 58  | 10  | 0.4 | 7   | 0.3  | <0.02 |
|                    |        |                                | 22.35 - 31.60 Ei1b intrusive with chilled margin from 22.35 - 24.15 m. Typical pink, med grained, weakly magnetic bi-Kspar-plag-px intrusive, except where noted. Chilled intrusive lower contact.                                                                                                                                                                                                                                                                                       | 25673    | 23.92    | 24.15  | 0.23         | 87  | 5   | 11  | 19  | 37  | 12  | 0.4 | <5  | <0.1 | 0.06  |
|                    |        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25674    | 24.15    | 24.65  | 0.50         | 99  | 1   | 26  | 22  | 70  | 5   | 0.3 | <5  | <0.1 | 0.05  |
|                    |        |                                | 23.0 - 23.47 weak bleaching and argillic alt'n                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 23.47 - 23.92 Very strong bleaching and intense argillic alt'n + clay gouge. Relic biotite phenos still visible.                                                                                                                                                                                                                                                                                                                                                                         |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 23.92 - 24.15 Grey green-white chalcedonic bx vein, weak banding. 25% mm - 3 cm sized angular alt'd wall rx frags. Vein has 20 cm true width. Upper contact is 20 cm zone of fault gouge and very intense clay alteration, possibly at 40°. Lower contact is a sharp contact at 70°.                                                                                                                                                                                                     |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 36.0 - 38.0 chilled margin to Ei2, with sharp contact at 38.0, at 45°.                                                                                                                                                                                                                                                                                                                                                                                                                   |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 38.00              | 49.88  | Str potassic silic'd intrusive | Massive fine grained, med-dark grey very siliceous (potassic-albite alt'd) intrusive with good relic fsp-hnbld phenos visible. 10-15% 1-3 mm subhedral white fsp phenos, < 5% 1-2 mm hnbld + possible biotite? in an aphanitic intensely siliceous dark grey gmass (locally white-pale buff silic'd). Not sure what protolith is - possibly Ei2, but could be older?? could be Knob Hill cherty gst?? @ 40.50 m = THIN SECTION of dark grey siliceous (qtz-albite-Kspar) gmass intrusive | 25675    | 38.00    | 41.00  | 3.00         | 59  | 10  | 14  | 5   | 37  | 14  | 0.3 | <5  | <0.1 | 0.04  |
|                    |        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25676    | 41.00    | 44.00  | 3.00         | 80  | 38  | 20  | 3   | 39  | 17  | 0.3 | <5  | <0.1 | 0.04  |
|                    |        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25677    | 44.00    | 47.00  | 3.00         | 76  | 13  | 15  | 3   | 38  | 22  | 0.3 | <5  | <0.1 | <0.02 |
|                    |        |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25678    | 47.00    | 49.88  | 2.88         | 748 | 73  | 171 | 13  | 37  | 42  | 0.2 | <5  | 0.4  | 0.30  |
|                    |        |                                | 44.5 - 47.2 Fault zone at low angle, 10°. Cracked, bx'd, silic'd intrusive. V broken core. Common chl and gougey fractures.                                                                                                                                                                                                                                                                                                                                                              |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | 48.0 - 49.5 Pale buff-white str-intensely silic'd intrusive, with relic texture. @ 48.30 m = THIN SECTION of buff potassic alt'd intrusive                                                                                                                                                                                                                                                                                                                                               |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
|                    |        |                                | @ 49.88 sharp intrusive contact to Ei1a below, at 80°. Later narrow gouge zone along contact.                                                                                                                                                                                                                                                                                                                                                                                            |          |          |        |              |     |     |     |     |     |     |     |     |      |       |
| 49.88              | 59.75  | Ei1a                           | Typical fine grained pink Kspar megacrystic, non-magnetic syenite. Interval is a series of individual dykes of similar composition - numerous narrow chilled zones, narrow gougey fault surfaces. Local weak bleaching and argillic alteration.                                                                                                                                                                                                                                          |          |          |        |              |     |     |     |     |     |     |     |     |      |       |

| DOMINANT ROCK TYPE |        |              | DESCRIPTION                                                                                             | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|--------------|---------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology    |                                                                                                         | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPM  | PPB | PPM  | PPM   |
|                    |        |              | 49.88 - 50.1 chilled margin                                                                             |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | @ 51.1 narrow gougey fracture at 45°, with chilled E1a above                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 57.1 - 57.6 weak argillic alteration                                                                    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | @ 59.75 sharp intrusive contact at 90°, with chilled margin.                                            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 59.75              | 74.12  | Silic'd      | Med grey, very hard siliceous intrusive? as in 38.0 - 49.88, with relic fsp xtalline texture. Weakly    | 25679    | 59.75    | 62.50  | 2.75         | 147     | 5   | 66  | 5    | 37       | 37   | 0.3  | <5  | 0.5  | 0.04  |
|                    |        | intrusive?   | pervasive calcareous. This unit appears to fine down section, becomes more mottled and                  | 25680    | STD SE-2 |        |              | >100000 | 173 | 484 | 9647 | >10000.0 | 4363 | 85.8 | 815 | 20.8 | 0.05  |
|                    |        | as in        | aphanitic and resembles Knob Hill siliceous greenstone. Very minor ep-hem alt'n. Cut by                 | 25681    | 62.50    | 64.50  | 2.00         | 447     | 13  | 172 | 16   | 71       | 75   | 0.4  | <5  | 0.9  | 0.06  |
|                    |        | 38.0 - 49.88 | several dykes and fault zones, as follows:                                                              | 25682    | 64.50    | 66.50  | 2.00         | 433     | 14  | 161 | 17   | 88       | 66   | 0.4  | 9   | 0.9  | 0.06  |
|                    |        |              |                                                                                                         | 25683    | 66.50    | 68.50  | 2.00         | 200     | 7   | 88  | 7    | 48       | 34   | 0.6  | 9   | 0.7  | 0.07  |
|                    |        |              | 62.5 - 66.5 Very broken core, lots of ground core, poor recovery. Includes numerous gouge &/or          | 25684    | 68.50    | 70.15  | 1.65         | 330     | 35  | 136 | 8    | 60       | 50   | 0.4  | <5  | 0.5  | 0.05  |
|                    |        |              | intense argillic zones. Poss some alt'd Ei dyke in here, but intensity of alteration makes it difficult | 25685    | 70.15    | 72.15  | 2.00         | 214     | 10  | 58  | 11   | 67       | 70   | 0.6  | 7   | 0.5  | 0.08  |
|                    |        |              | to tell protolith.                                                                                      | 25686    | 72.15    | 74.12  | 1.97         | 1142    | 35  | 113 | 59   | 431      | 60   | 0.9  | 17  | 1.1  | 0.09  |
|                    |        |              | 70.15 - 74.12 Mixed zone of finer grained pale grey-brown intrusive as above (possible original         |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | contact zone, with chilled contact and assimilation & alt'n adjacent to fault + probable alt'd          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | Ei dykes in fault). Mod-str argillic alt'd throughout with local intensely altered sections.            |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 71.40 - 73.0 very pale grey-white, mod-str argillic alt'd. Protolith uncertain, possibly Ei dyke.       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 73.0 - 74.12 Fault Zone, probably at 50°. Clay gouge + intense argillic alt'n. Local tectonic bx.       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 74.0 - 74.12 Bx zone at 50°, 10 cm true width with 50% mm-cm scale bx frags in aphanitic                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | clay-qtz mixed mtrx.                                                                                    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 74.12              | 87.55  | Trbs         | Med-dark grey-green, fine grained to aphanitic, well bedded, mod calcareous volcanic siltstone          | 25687    | 74.12    | 77.00  | 2.88         | 653     | 13  | 61  | 223  | 2132     | 25   | 0.7  | 102 | 0.8  | 0.09  |
|                    |        |              | to sandstone with local fsp xtal rich beds. Mod hard. Minor py - dissem and patches. Bedding            | 25688    | 77.00    | 79.30  | 2.30         | 179     | 4   | 40  | 7    | 44       | 35   | 0.7  | <5  | 0.5  | 0.03  |
|                    |        |              | at 60-65°.                                                                                              |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 79.3 - 84.73 Ei1b dyke cuts Trbs. Pale pink fine grained non-magnetic dyke. Chilled intrusive           |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | contacts. V weak local argillic alt'n.                                                                  |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 85.1 - 85.4 chilled Ei dyke at 50°                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              |                                                                                                         | 25689    | 85.40    | 87.55  | 2.15         | 243     | 5   | 63  | 8    | 41       | 57   | 0.9  | 7   | 0.4  | 0.05  |
|                    |        |              | 86.4 - 87.55 weak pervasive silic'n in Trbs.                                                            | 25690    | BLANK    |        |              | 61      | 12  | 4   | 24   | 69       | 6    | 0.3  | <5  | 0.2  | <0.02 |
| 87.55              | 106.38 | Ei1b         | Typical pink massive unaltered Kspar-fsp-biotite-px syenite, mod magnetic. Upper contact                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | is sharp chilled intrusive contact at 60°. Lower contact is sharp irregular chilled contact at ~ 85°.   |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 106.38             | 113.15 | Trbs         | Typical muddy grey-brown, coarsely bedded, fine grained siltstone, siliceous/cherty siltstone           |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        | (+ Ei dykes) | and calcareous siltstone, with bedding at 45°. Local 1st clasts/frags and narrow 1st beds. Cut by       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | numerous Ei dykes, as follows:                                                                          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 108.4 - 109.58 Ei1a - fine grained Kspar megacrystic syenite with chilled intrusive contacts at 80°.    |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |              | 110.35 - 111.17 Ei1a, as above at 50-70°                                                                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                                                                                                                                                                                                                                                                            | SAMPLE   |          |        |              | Ag      | Au  | Cu  | Pb   | Zn       | As   | Sb   | Hg  | Se   | Te    |
|--------------------|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|---------|-----|-----|------|----------|------|------|-----|------|-------|
| From (m)           | To (m) | Lithology |                                                                                                                                                                                                                                                                                                                                                        | Sample # | From (m) | To (m) | Interval (m) | PPB     | PPB | PPM | PPM  | PPM      | PPM  | PPB  | PPM | PPM  | PPM   |
|                    |        |           | 111.17 - 112.33 Ei1b, fine grained px phyric chilled dyke at 50°                                                                                                                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 113.15 contact to crowded fsp porphyry below is intrusive (possibly fsp porph intrudes into soft seds?) with narrow chill zone. Contact is diffuse, but rapid.                                                                                                                                                                                       |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 113.15             | 118.10 | fp        | Crowded feldspar porphyry. Massive, medium grey, medium grained, crowded fsp porph intrusive. Non-mag. Very weakly calcareous and with common hairline cc vnlt. 30-40% blocky 1 mm subhedral white fsp phenos and 10% chl alt'd 1 mm amph in fng pale-med gred siliceous gmass. 1-2% diss py (after mafics) and in narrow vnlt. @ 117.9 = THIN SECTION | 25691    | 112.33   | 113.15 | 0.82         | 169     | 4   | 65  | 18   | 74       | 52   | 0.5  | <5  | 1.1  | 0.14  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25692    | 113.15   | 116.00 | 2.85         | 190     | 3   | 32  | 25   | 99       | 30   | 1.1  | <5  | 0.4  | <0.02 |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25693    | 116.00   | 118.10 | 2.10         | 336     | 2   | 21  | 178  | 1219     | 25   | 0.9  | 29  | 0.4  | <0.02 |
|                    |        |           | 117.94 - 118.1 core is very broken and ground at contact to seds below.                                                                                                                                                                                                                                                                                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 118.10             | 141.10 | Trbs      | Pale muddy grey-green interbedded chert, cherty siltstone, calcareous siltstone and limestone/ limey sst as above, but dominantly very siliceous cherty siltstone. Calcareous beds are locally partially altered to pale brown garnet. Common hairline chl+/- py vnlt and chl frags. Common cc vnlt. Minor py - diss and in vnlt +/- chl or cc.        | 25694    | 118.10   | 121.40 | 3.30         | 1837    | 12  | 72  | 777  | 2553     | 179  | 2.2  | 51  | 1.0  | 0.09  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25695    | 122.95   | 126.00 | 3.05         | 640     | 5   | 107 | 70   | 105      | 194  | 1.4  | 6   | 0.8  | 0.05  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25696    | 126.00   | 129.00 | 3.00         | 651     | 4   | 154 | 43   | 63       | 155  | 1.4  | <5  | 1.2  | 0.10  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25697    | 129.00   | 132.00 | 3.00         | 410     | 4   | 129 | 11   | 34       | 102  | 1.5  | <5  | 1.2  | 0.07  |
|                    |        |           | 121.4 - 122.95 Dark grey fng Ei2 dyke. Massive, unaltered, weakly magnetic.                                                                                                                                                                                                                                                                            | 25698    | 132.00   | 135.10 | 3.10         | 201     | 2   | 58  | 7    | 26       | 174  | 1.3  | <5  | 1.5  | 0.18  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 25699    | 135.10   | 136.60 | 1.50         | 346     | 5   | 64  | 15   | 67       | 112  | 6.6  | 14  | 2.1  | 0.15  |
|                    |        |           | 132.5 - 135.1 pale grey limestone and limey sst interbeds >> abundant than above, to ~ 50% of interval. Bedding at 60°.                                                                                                                                                                                                                                | 25700    | STD SE-2 |        |              | >100000 | 168 | 475 | 9901 | >10000.0 | 4420 | 84.4 | 774 | 20.5 | 0.04  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 3451     | 136.60   | 139.00 | 2.40         | 257     | 5   | 60  | 6    | 30       | 90   | 2.0  | 12  | 3.0  | 0.12  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 3452     | 139.00   | 141.10 | 2.10         | 342     | 8   | 56  | 9    | 42       | 76   | 2.2  | 8   | 10.2 | 0.06  |
|                    |        |           | 135.1 - 136.6 FAULT ZONE. Zone of str argillic alt'd seds + clay gouge and tectonic bx zones with white massive cc matrix. Fault at 80°.                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | @ 139.0 Bedding at 80°.                                                                                                                                                                                                                                                                                                                                |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 141.10             | 145.37 | Trbl (jb) | Very fine chert pebble conglomerate or chert grain sandstone. Pale grey, massive, strongly calcareous. 20-40% 1-3 mm rounded grey chert grains in a pale grey limestone gmass. Weak crackle-type breccia. Weak bedding visible locally at 80°.                                                                                                         | 3453     | 141.10   | 144.00 | 2.90         | 50      | 2   | 7   | 2    | 17       | 11   | 0.2  | 14  | 1.4  | 0.20  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 3454     | 144.00   | 145.37 | 1.37         | 388     | 10  | 14  | 8    | 27       | 344  | 1.5  | 39  | 2.4  | 0.13  |
|                    |        |           | 144.0 - 145.37 brecciated, probably tectonic bx due to Ei2 below.                                                                                                                                                                                                                                                                                      |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 144.8 - 145.37 silic'd with 5-10% py, as very fine muddy py in bx matrix                                                                                                                                                                                                                                                                               |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 145.37             | 153.00 | Ei2       | Typical massive fine grained dark grey fresh, weakly magnetic Ei2 dyke with chilled margins and intrusive contacts. Upper at 45°, lower at 60°.                                                                                                                                                                                                        |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
|                    |        |           | 152.08 - 153.0 narrow muddy grey-brown Kspar megacrystic Ei1a dyke along lower Ei2 contact. Chilled intrusive contacts at 60°.                                                                                                                                                                                                                         |          |          |        |              |         |     |     |      |          |      |      |     |      |       |
| 153.00             | 158.45 | Trbl (bx) | Typical mottled pale grey-green-pink mosaic type limestone bx as in previous holes, with local patchy grey silica partly replacing 1st frags (or possibly primary chert?). Tr py - diss and with chl in vnlt.                                                                                                                                          | 3455     | 153.00   | 155.00 | 2.00         | 34      | 1   | 6   | 2    | 29       | 6    | 0.1  | <5  | 0.5  | 0.25  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 3456     | 155.00   | 157.00 | 2.00         | 39      | 1   | 12  | 5    | 15       | 3    | 0.2  | <5  | 0.7  | 0.25  |
|                    |        |           |                                                                                                                                                                                                                                                                                                                                                        | 3457     | 157.00   | 158.45 | 1.45         | 38      | 1   | 10  | 2    | 17       | 3    | 0.2  | <5  | 0.6  | 0.24  |
|                    |        |           | Minor white qtz-cc vning and irregular flood zones with minor py - may be weak expression of.                                                                                                                                                                                                                                                          |          |          |        |              |         |     |     |      |          |      |      |     |      |       |

| DOMINANT ROCK TYPE |        |           | DESCRIPTION                                                                                         | SAMPLE   |          |        |              | Ag  | Au   | Cu  | Pb  | Zn  | As  | Sb  | Hg  | Se  | Te    |
|--------------------|--------|-----------|-----------------------------------------------------------------------------------------------------|----------|----------|--------|--------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|
| From (m)           | To (m) | Lithology |                                                                                                     | Sample # | From (m) | To (m) | Interval (m) | PPB | PPB  | PPM | PPM | PPM | PPM | PPM | PPB | PPM | PPM   |
|                    |        |           | Minnie Moore zone??                                                                                 |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
| 158.45             | 163.10 | Trbv      | Dominantly dark green, fine grained massive greenstone (tuff?) or microdiorite.                     | 3458     | 158.45   | 160.45 | 2.00         | 81  | 2    | 11  | 3   | 38  | 5   | 0.9 | <5  | 1.8 | 0.02  |
|                    |        | or Trmd   | 20% very fine fsp in aphanitic gmass, weakly calcareous, non-magnetic. Interbedded with strong      | 3459     | 160.45   | 163.10 | 2.65         | 121 | 2    | 26  | 4   | 30  | 6   | 0.5 | <5  | 1.1 | 0.05  |
|                    |        |           | ep +/- hem alt'd limestone/limestone breccia and str siliceous mottled calc-silicate alt'd Trbs.    | 3460     | BLANK    |        |              | 56  | 3    | 3   | 21  | 65  | 19  | 0.4 | 6   | 0.2 | <0.02 |
|                    |        |           | Probable Brooklyn volc or microdiorite.                                                             |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
| 163.10             | 181.94 | Skarn     | Intensely siliceous, strongly calcareous, very strong epidote-garnet (+< px) skarn. Aphanitic,      | 3461     | 163.10   | 165.00 | 1.90         | 103 | 2    | 18  | 7   | 18  | 10  | 1.5 | <5  | 0.4 | 0.06  |
|                    |        |           | pale green-grey-brown mottled appearance. Relic coarse breccia or conglomerate texture with         | 3462     | 165.00   | 166.50 | 1.50         | 50  | 1    | 9   | 5   | 12  | 7   | 1.8 | <5  | 0.2 | 0.02  |
|                    |        |           | 1-10 cm limestone bx frags partly to completely replaced by pale brown massive fine grained         | 3463     | 166.50   | 168.00 | 1.50         | 60  | 1    | 9   | 4   | 38  | 10  | 1.2 | <5  | 0.4 | <0.02 |
|                    |        |           | garnet and grey-green siliceous epidote (+ px) alt'd matrix (with common fine chert grains)         | 3464     | 168.00   | 170.30 | 2.30         | 68  | 1    | 9   | 6   | 21  | 12  | 1.9 | <5  | 0.2 | 0.05  |
|                    |        |           | between bx frags. Grey silica flooding locally in matrix (may be later epithermal overprint to      | 3465     | 170.30   | 172.00 | 1.70         | 59  | <0.2 | 11  | 3   | 24  | 8   | 1.2 | <5  | 0.6 | 0.04  |
|                    |        |           | skarn?).                                                                                            | 3466     | 172.00   | 174.00 | 2.00         | 611 | 4    | 321 | 2   | 38  | 6   | 0.4 | <5  | 1.3 | 0.03  |
|                    |        |           |                                                                                                     | 3467     | 174.00   | 176.00 | 2.00         | 275 | 1    | 57  | 4   | 29  | 9   | 0.7 | <5  | 2.4 | 0.04  |
|                    |        |           | Minor py and trace very fine black sulfide, possibly sphalerite. Common chl frags +/- slickensides. | 3468     | 176.00   | 178.00 | 2.00         | 84  | 1    | 10  | 6   | 19  | 17  | 3.2 | <5  | 0.2 | <0.02 |
|                    |        |           | Protolith may be limestone breccia or may be conglomerate (Trbl (bx), (jb) or Trbbx?).              | 3469     | 178.00   | 180.00 | 2.00         | 170 | 1    | 16  | 9   | 42  | 18  | 2.1 | <5  | 0.7 | <0.02 |
|                    |        |           |                                                                                                     | 3470     | STD SE-2 |        |              | 161 | <0.2 | 11  | 25  | 50  | 13  | 1.8 | <5  | 0.5 | 0.03  |
|                    |        |           | Skarn becomes >> ep-px < gar skarn down hole.                                                       | 3471     | 180.00   | 181.94 | 1.94         | 110 | <0.2 | 8   | 26  | 53  | 11  | 1.5 | <5  | 0.3 | 0.03  |
|                    |        |           | 168.0 - 170.3 Mod-str silica flooding in skarn (poss epithermal overprint)                          |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
|                    |        |           | @ 168.0 THIN SECTION                                                                                |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
|                    |        |           | 171.3 - 173.2 Dark green fine grained greenstone/tuff or microdiorite, as in 158.45 - 163.1, with   |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
|                    |        |           | minor chert xenoliths.                                                                              |          |          |        |              |     |      |     |     |     |     |     |     |     |       |
| 181.94             | EOH    |           |                                                                                                     |          |          |        |              |     |      |     |     |     |     |     |     |     |       |

| Box   | From Block | To Block | Measured | Theoretical | Recovery |
|-------|------------|----------|----------|-------------|----------|
|       | m          | m        | m        | m           | %        |
| 1     | 6.10       | 8.23     | 0.65     | 2.13        | 31       |
| 1     | 8.23       | 11.28    | 2.90     | 3.05        | 95       |
| 1/2   | 11.28      | 14.32    | 2.75     | 3.04        | 90       |
| 2/3   | 14.32      | 17.37    | 3.05     | 3.05        | 100      |
| 3     | 17.37      | 20.42    | 3.00     | 3.05        | 98       |
| 3/4   | 20.42      | 23.47    | 3.05     | 3.05        | 100      |
| 4     | 23.47      | 26.51    | 3.04     | 3.04        | 100      |
| 4/5   | 26.51      | 29.56    | 3.05     | 3.05        | 100      |
| 5     | 29.56      | 32.61    | 3.05     | 3.05        | 100      |
| 5/6   | 32.61      | 35.66    | 3.05     | 3.05        | 100      |
| 6     | 35.66      | 38.70    | 3.00     | 3.04        | 99       |
| 6/7   | 38.70      | 41.75    | 2.95     | 3.05        | 97       |
| 7/8   | 41.75      | 44.80    | 3.00     | 3.05        | 98       |
| 8     | 44.80      | 47.85    | 3.00     | 3.05        | 98       |
| 8/9   | 47.85      | 50.90    | 3.05     | 3.05        | 100      |
| 9     | 50.90      | 53.94    | 3.04     | 3.04        | 100      |
| 10    | 53.94      | 56.99    | 3.05     | 3.05        | 100      |
| 10/11 | 56.99      | 60.04    | 3.05     | 3.05        | 100      |
| 11    | 60.04      | 63.09    | 2.60     | 3.05        | 85       |
| 11/12 | 63.09      | 66.13    | 2.58     | 3.04        | 85       |
| 12    | 66.13      | 69.18    | 3.05     | 3.05        | 100      |
| 12/13 | 69.18      | 72.23    | 3.00     | 3.05        | 98       |
| 13    | 72.23      | 75.28    | 2.75     | 3.05        | 90       |
| 13/14 | 75.28      | 78.32    | 3.04     | 3.04        | 100      |
| 14/15 | 78.32      | 81.37    | 3.05     | 3.05        | 100      |
| 15    | 81.37      | 84.42    | 3.05     | 3.05        | 100      |
| 15/16 | 84.42      | 87.47    | 3.05     | 3.05        | 100      |
| 16    | 87.47      | 90.51    | 3.04     | 3.04        | 100      |
| 16/17 | 90.51      | 93.56    | 3.05     | 3.05        | 100      |
| 17    | 93.56      | 96.61    | 3.05     | 3.05        | 100      |
| 17/18 | 96.60      | 99.65    | 3.05     | 3.05        | 100      |
| 18    | 99.65      | 102.70   | 3.05     | 3.05        | 100      |
| 19    | 102.70     | 105.75   | 3.05     | 3.05        | 100      |
| 19/20 | 105.75     | 108.80   | 3.05     | 3.05        | 100      |
| 20    | 108.80     | 111.85   | 3.05     | 3.05        | 100      |
| 20/21 | 111.85     | 114.90   | 3.05     | 3.05        | 100      |
| 21    | 114.90     | 117.94   | 3.00     | 3.04        | 99       |
| 21/22 | 117.94     | 120.99   | 2.45     | 3.05        | 80       |
| 22    | 120.99     | 124.04   | 3.05     | 3.05        | 100      |
| 22/23 | 124.04     | 127.09   | 2.75     | 3.05        | 90       |
| 23/24 | 127.09     | 130.13   | 3.04     | 3.04        | 100      |
| 24    | 130.13     | 133.18   | 3.05     | 3.05        | 100      |
| 24/25 | 133.18     | 136.23   | 3.05     | 3.05        | 100      |
| 25    | 136.23     | 139.28   | 3.00     | 3.05        | 98       |
| 25/26 | 139.28     | 142.32   | 3.04     | 3.04        | 100      |
| 26/27 | 142.32     | 145.37   | 3.05     | 3.05        | 100      |
| 27    | 145.37     | 148.42   | 2.70     | 3.05        | 89       |
| 27/28 | 148.42     | 151.47   | 2.95     | 3.05        | 97       |
| 28    | 151.47     | 154.51   | 3.00     | 3.04        | 99       |
| 28/29 | 154.51     | 157.56   | 3.05     | 3.05        | 100      |
| 29    | 157.56     | 160.61   | 3.05     | 3.05        | 100      |
| 29/30 | 160.61     | 163.66   | 2.85     | 3.05        | 93       |
| 30/31 | 163.66     | 166.70   | 3.04     | 3.04        | 100      |
| 31    | 166.70     | 169.75   | 3.05     | 3.05        | 100      |
| 31/32 | 169.75     | 172.80   | 2.85     | 3.05        | 93       |
| 32    | 172.80     | 175.85   | 3.05     | 3.05        | 100      |
| 32/33 | 175.85     | 178.90   | 3.05     | 3.05        | 100      |
| 33/34 | 178.90     | 181.94   | 3.04     | 3.04        | 100      |
|       | 181.94     | EOH      |          |             |          |

## APPENDIX 4

### Petrographic Report

## PETROGRAPHIC REPORT ON 17 SAMPLES FROM MINNIE MOORE PROPERTY

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Dec. 28, 2007.

### SUMMARY:

Described as from recent drilling at Minnie Moore epithermal quartz breccia zone (from which 8 samples were examined in October). The 17 samples, however, appear more likely to represent skarn alteration (e.g. MM07-6 79.4, 07-7 67.8/69.3, 07-8 279, 07-9 106.7, 07-10 168) or rarely hornfels (MM07-8 292.65) developed in brecciated limestone host rocks (e.g. MM07-5 105.1, 07-6 138.4) in and around hypabyssal intrusions of latite (e.g. MM07-6 33.2, MM07-8 261.2) or dacite (e.g. MM07-10, 40.5, 48.3, and 117.9) porphyry. In the limestone breccia, clasts of limestone (mainly calcite, locally with internal clasts of quartz-rich rock) are cut and cemented by a matrix of calcite-clay?-pyrite  $\pm$ rutile or locally calcite-tremolite/actinolite-quartz?-pyrite  $\pm$ sphene/rutile. In the skarny alteration, K-feldspar, albite, carbonate (which may locally include dolomite or ankerite?), quartz, sericite, or clinopyroxene, garnet, epidote (retrograded to chlorite, sericite, "hydrobiotite", tremolite/actinolite) are common. Biotite is a significant component in the skarny altered hornfels, with lesser green mica and alkali feldspar. Latite porphyry is composed of plagioclase, clinopyroxene and biotite phenocrysts in a groundmass of alkali feldspar (mainly Kspar)-minor quartz (accessory magnetite-sphene-apatite). Dacite porphyry is composed of plagioclase and amphibole phenocrysts in a groundmass of quartz and alkali feldspar (accessory magnetite altered to sphene/rutile, apatite).

Sulfides are mainly minor in these rocks and are principally pyrite, but locally include lesser chalcopyrite and sphalerite, or in places pyrrhotite with lesser sphalerite and trace chalcopyrite. In general, calcite veinlets are late in the paragenesis and do not appear to be closely associated with sulfide mineralization.

Capsule descriptions are as follows:

MM07-5 105.1: brecciated carbonate (recrystallized limestone/marble?) cemented by narrow veinlets/breccia matrix of carbonate, possible clay (?) mineral, minor pyrite and trace rutile.

MM07-6 33.2: biotite-pyroxene quartz latite with accessory magnetite, sphene, and apatite, trace pyrite-chalcopyrite; minor to moderate deuteric or propylitic alteration to calcite-chlorite-sericite.

MM07-6 79.4: carbonate-Kspar altered, carbonate-albite-quartz-sericite-minor pyrite-chalcopyrite-sphalerite (?) -rutile veined rock of uncertain origin; carbonate may include calcite and ankerite (?).

MM07-6 86.0: calc-silicate or "skarn" rock composed of vaguely layered clinopyroxene, K-feldspar, variable carbonate, and significant pyrrhotite (could also be traces of quartz?), cut by layer-parallel veins of carbonate-clinopyroxene-minor zoisite/clinozoisite, pyrrhotite-sphalerite, and later layer-oblique veinlets of carbonate or albite/scapolite (?). Carbonate may include calcite and dolomite/ankerite (?).



MM07-6 138.4: brecciated carbonate rock (recrystallized limestone or marble?) with traces of pyrite, cemented by narrow veinlets/wider breccia matrix of carbonate, amphibole (tremolite-actinolite?), possible quartz (?), minor sphene and trace rutile.

MM07-7 67.8: strongly contact metamorphosed or metasomatized carbonate rock (limestone?) now altered to glomeratic porphyroblastic aggregates of garnet (?), quartz  $\pm$ chalcedony, tremolitic amphibole, and brown Fe-carbonate, in a matrix of coarse-grained, recrystallized calcite, locally cut by narrow irregular fractures of brownish (actinolitic?) amphibole and Fe-carbonate (these are green in hand specimen, and possibly of retrograde origin).

MM07-7 69.3: highly metasomatized carbonate rock (?) containing clasts of quartz-Kspar-clinopyroxene-trace sphene/rutile, sulfides in a recrystallized calcite ( $\pm$  vein-like dolomite?) matrix with minor quartz (?), Kspar, and relict clinopyroxene altered to actinolite, trace sphene/rutile.

MM07-8 51.2: intensely potassic (Kspar-clay?/sericite-minor carbonate-possible quartz?-pyrite-sphene/rutile) altered and stockwork fractured rock that may have originally been an intermediate hypabyssal (weakly porphyritic) intrusive composed mainly of plagioclase and possible mafic minerals, minor (<10%) quartz. However, alteration is so strong that this interpretation is speculative.

MM07-8 64.7: strongly potassic/calc-silicate (Kspar-carbonate-garnet-“hydrobiotite”-minor quartz?-sphene-pyrrhotite/pyrite  $\pm$ chalcopyrite, marcasite) altered rock of uncertain derivation; garnet (and pyroxene/amphibole?) are retrograded to early (Fe-Mg?) carbonate and cut by late calcite.

MM07-8 261.2: biotite-pyroxene latite porphyry (accessory magnetite/trace ilmenite/pyrite, quartz, apatite, sphene) with interstitial, deuteric calcite, prehnite, amphibole; plagioclase phenocrysts are altered to albite-clay?/sericite-prehnite-clinozoisite, and biotite to chlorite.

MM07-8 279.0: intensely carbonate altered, possibly originally calc-silicate or skarny altered rock that contained clinopyroxene (diopside?) and possibly garnet (?), retrograded to tremolite-actinolite, “hydrobiotite” and brownish (ferromagnesian?) carbonate; late veinlets are filled with hydrobiotite.

MM07-8 292.65: biotite/green mica-Kspar-albite-magnetite  $\pm$ pyrite-chalcopyrite hornfelsed (possibly sedimentary?) rock, layer-parallel zones of skarn (garnet-clinopyroxene-alkali feldspar-minor sphene  $\pm$ rutile), retrograded to carbonate ( $\pm$ amphibole, hydrobiotite?) near late veins of clear calcite.

MM07-9 106.7: recrystallized limestone (marble) and interlayered skarny altered (clinopyroxene-Kspar) rock, both with accessory pyrrhotite and minor pyrite; veins are calcite-garnet-quartz-clinozoisite-possible calcic plagioclase-pyroxene-scapolite (?).

MM07-10 40.5: hornblende?-plagioclase phyrical, possibly dacitic, hypabyssal porphyry (accessory magnetite-apatite-sphene) altered to albite/Kspar-quartz-amphibole-epidote-sericite-calcite.

MM07-10 48.3: potassic (Kspar/albite-tremolitic amphibole-calcite-biotite/sericite-epidote-minor sphene/rutile-pyrite) altered, originally amphibole-plagioclase phyrical, dacite (?) hypabyssal porphyry.

MM07-10 117.9: plagioclase-hornblende dacite porphyry, accessory sphene/rutile-apatite, altered to Kspar-albite-epidote-pyrite-calcite-chlorite near epidote-quartz  $\pm$ pyrite-sphalerite veins.

MM07-10 168.0: strongly skarn (Kspar-garnet-epidote-clinopyroxene-carbonate-minor sphene-quartz?-trace chalcopyrite) altered rock likely after plagioclase-amphibole phyrical, dacite (?) porphyry.

Detailed petrographic descriptions and photomicrographs are appended (on CD). If you have any questions regarding the petrography, please do not hesitate to contact me.

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### MM07-5 105.1: BRECCIA OF CARBONATE (LIMESTONE/MARBLE?) CLASTS AND MINOR VEINLET MATRIX OF CARBONATE-CLAY?-PYRITE-RUTILE

Hand specimen is a breccia composed of angular clasts of variously grey, white, or pale pink-coloured carbonate rocks up to about 3 cm in maximum dimension (90% of the sample) cemented by a very minor amount of white (carbonate) to dark grey, fine-grained (weakly pyritic) matrix (10% of the sample). The rock is not magnetic, and shows no stain for K-feldspar in the etched offcut, but there is strong, vigorous reaction to cold dilute HCl throughout. Modal mineralogy in polished thin section is approximately:

|                             |      |
|-----------------------------|------|
| Carbonate (mainly calcite?) | 95%  |
| Clay (?) in matrix          | 3-4% |
| Pyrite                      | 1%   |
| Rutile                      | <1%  |

Clasts are less easily recognized in thin section than in hand specimen since colour differences are not readily seen in thin section, and both clasts and matrix are composed mainly of carbonate, likely calcite throughout to judge by the strong reaction to HCl in hand specimen.

In the clasts, carbonate generally forms interlocking subhedral to euhedral crystals mostly <0.3 mm in diameter, but locally up to 0.7 mm. The crystals are commonly twinned, and have likely been recrystallized (coarsened) by deformation and/or hydrothermal activity from the original grains of limestone. However, subsequent annealing is indicated by common triple junctions.

The matrix is locally recognizable by elongate, discontinuous patches or irregular veinlets, mostly <1.5 mm thick, of coarser-grained, somewhat clearer carbonate forming sub- to locally euhedral crystals up to about 1 mm in diameter. In places, narrow open fractures or veinlets (partly plucked out during section preparation, but commonly still partly filled with what appears to be clay?), are associated with or occur down the center of the carbonate veinlet/breccia matrix. Minor pyrite is generally associated with these veinlets. The possible clay (?) mineral forms minute, randomly oriented flakes mostly <10 (rarely to 15) microns in diameter, with low birefringence but positive relief compared to epoxy, suggestive of a kaolinite-group mineral (?). X-ray diffraction (XRD) analysis would be required to confirm this tentative identification.

Pyrite, forming mainly cubic euhedral crystals rarely over 0.1 mm in size (but locally in loose aggregates up to 0.5 mm across) is generally closely associated with the clay (?) mineral. Pyrite rarely contains inclusions <10 microns in size of rutile. Minor rutile also occurs in the clay (?) but is more abundant in adjacent carbonate crystals, as colourless sub- to euhedral crystals up to 25 microns long.

In summary, this is a brecciated carbonate (recrystallized limestone/marble?) cemented by narrow veinlets/breccia matrix of carbonate, possible clay (?) mineral, minor pyrite and trace rutile.

MM07-6 33.2: HYPABYSSAL INTRUSIVE (BIOTITE-PYROXENE QUARTZ LATITE WITH ACCESSORY MAGNETITE-SPHENE-APATITE; MINOR PROPYLITIC ALTERATION TO CALCITE-CHLORITE-SERICITE)

Hand specimen is medium-grained, greenish-grey, massive, intermediate hypabyssal porphyry composed of white plagioclase phenocrysts and lesser mafic relics, in a phaneritic groundmass that stains for K-feldspar. The rock is magnetic, and shows minor reaction to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

|                                                |      |
|------------------------------------------------|------|
| Plagioclase (sericitized, oligoclase-andesine) | 45%  |
| K-feldspar (primary)                           | 25%  |
| Quartz                                         | 7%   |
| Biotite (partly secondary)                     | 7%   |
| Clinopyroxene (relict)                         | 5%   |
| Carbonate (mainly calcite)                     | 3%   |
| Chlorite                                       | 3%   |
| Sericite                                       | 2%   |
| Magnetite, sphene                              | 2%   |
| Apatite                                        | <1%  |
| Pyrite, chalcopyrite                           | <<1% |

This high-level intrusive rock is composed of about 40% 1-3 mm plagioclase, 10% 1-3 mm altered relict clinopyroxene, and 10% biotite phenocrysts in a phaneritic groundmass of K-feldspar and quartz, with accessory Fe-Ti oxides and apatite (trace pyrite).

Plagioclase phenocrysts are mainly euhedral and although partly altered to fine-grained sericite (mainly subhedral flakes <25 microns) and lesser carbonate (probably mainly calcite, ragged irregular subhedra <0.15 mm in diameter), it retains primary magmatic zoning and twinning. Extinction on 010 between 7 and 21 degrees suggests a composition of oligoclase (An<sub>25</sub>) to andesine (An<sub>40</sub>).

Clinopyroxene phenocrysts are also mainly euhedral but are partly to largely replaced by carbonate (also probably mainly calcite to judge by the reaction in hand specimen, forming ragged subhedral crystals mainly <0.25, but locally optically continuous for up to 0.5 mm) and chlorite (sub-to euhedral flakes mostly <0.1 mm in diameter, with very pale green colour but length-slow, weakly anomalous bluish grey birefringence indicative of Fe:Fe+Mg, or F:M, ratio around 0.5-0.6).

Biotite forms sub- to euhedral pale brown flakes up to about 1 mm in diameter, but locally in loose aggregates to 3 mm. In places these primary crystals (or possibly former pyroxene) are replaced by fine-grained (<0.1 mm) secondary biotite, and both types of biotite are locally replaced by chlorite as described above.

Accessory Fe-Ti oxides and apatite are generally associated with the mafic minerals, either as small subhedra <0.15 mm included within pyroxene, or larger (0.5 mm) sub/euhedral crystals or aggregates associated with biotite or separate in the matrix. Most of the opaque oxides are magnetite, with small irregular inclusions of myrmekitic-textured ilmenite (?) <0.1 mm in size, and are associated with sphene as subhedra <0.1 mm in diameter containing inclusions of rutile (?) <20 microns in size. Apatite forms euhedral prisms up to 0.25 mm long. Traces of pyrite and lesser chalcopyrite, forming subhedra mostly <0.1 mm in size but aggregating to 0.25 mm, are rarely associated with the oxides.

In the groundmass, small sub- to euhedral crystals of alkali feldspar (mainly K-feldspar, but locally lesser plagioclase) mostly <0.25 mm in diameter are intergrown with interstitial quartz as ragged subhedra mostly <0.15 mm in maximum dimension, carbonate, chlorite and opaque oxides all mostly <0.1 mm in size.

In summary, this sample falls just within the biotite-pyroxene quartz latite field; it contains accessory magnetite, sphene, and apatite, plus traces of pyrite-chalcopyrite, and shows minor to moderate deuteric or propylitic alteration to calcite-chlorite-sericite.

MM07-6 79.4: CARBONATE-KSPAR-MINOR QUARTZ ALTERED, CARBONATE-ALBITE-QUARTZ-SERICITE-MINOR SULFIDE VEINED, ROCK OF UNCERTAIN DERIVATION

Hand specimen shows pale grey-buff to faintly greenish, fine-grained, intensely fractured to shattered and veined rock of uncertain derivation. The rock is not magnetic, but shows strong reaction to cold dilute HCl in both veins and wallrock, and significant stain for K-feldspar in the etched offcut (in the wallrock). Modal mineralogy in polished thin section is approximately:

|                                          |          |
|------------------------------------------|----------|
| Carbonate (mainly calcite?)              | 45%      |
| K-feldspar (partly to mainly secondary?) | 30%      |
| Plagioclase (secondary, albitic?)        | 15%      |
| Quartz (mainly secondary?)               | 5%       |
| Sericite                                 | 3-5%     |
| Pyrite, chalcopyrite, sphalerite         | <1% each |
| Rutile                                   | trace    |

This sample consists mainly of very fine-grained carbonate and alkali feldspar (Kspar) plus minor quartz, with a faintly layered appearance (although this may be due to closely-spaced fractures rather than bedding), cut by oblique swarms of veinlets composed of carbonate-alkali feldspar (mainly plagioclase)-minor quartz-sericite-trace sulfides.

In the wallrock, the proportion of carbonate to K-feldspar varies from about 60:40 to 30:70, serving to define the vague layering, which appears to be mainly controlled along narrow sub-planar fractures of K-spar rich material. This is supported by variations in intensity of yellow stain in the etched offcut, suggesting a secondary origin for most of the Kspar. Most of the Kspar occurs as ragged, interlocking sub/anhedral crystals <15, but locally up to 50, microns in diameter. Quartz is relatively minor, but is difficult to distinguish from Kspar where not touching Kspar (i.e. where carbonate intervenes). It forms somewhat coarser, ragged subhedra or irregular aggregates up to 0.15 mm across, generally slightly clearer than the Kspar and distinguished by positive relief against Kspar. Carbonate generally forms minute crystallites <20 microns in diameter, but commonly in aggregates up to 1 mm across, with a brownish colour suggestive of Fe-carbonate (although strong reaction to cold dilute HCl indicates it is likely mostly calcite). Locally the carbonate is overprinted by or recrystallized to relatively clear, coarser subhedra up to 0.2 mm in diameter (these may be related to the time of the vein swarms oblique to layering). In reflected light examination, the brownish carbonate also has higher reflectivity than the clear calcite, supporting the presence of Fe-carbonate such as ankerite.

In the oblique veins, carbonate forms coarse, relatively clear subhedra up to 1.5 mm across (aggregates to 2.5 mm) that are most likely calcite. Based on the general lack of yellow stain, and abundance of white etched appearance in the offcut, plus vaguely defined twinning in thin section, the bulk of the feldspar in the veins is identified as plagioclase, with negative relief compared to the minor quartz suggesting an albitic composition (supported by extinction on 010 up to 12 degrees); the crystals are mostly ragged sub- to anhedral <0.75 mm in diameter. Local K-feldspar forming ragged subhedra to 0.5 mm (with small to moderate, negative 2V) appear to be the exception. In places, sericite is common as aggregates of ragged, subhedral flakes mostly <25 microns in diameter.

Traces of sulfide also found both along the layering (and to a greater extent in the oblique veins) include pyrite, chalcopyrite, and possible sphalerite (?) all mostly <30 microns in diameter. Chalcopyrite in the oblique veins is somewhat coarser-grained, forming subhedra up to 0.25 mm long in part also associated with the relatively clear calcite. Pyrite, forming cubic crystals mostly <50 microns in diameter, is concentrated along the margins with the Fe-carbonate. The mineral tentatively identified as sphalerite is opaque (and therefore very Fe-rich if the identification is correct), forming subhedra to 0.1 mm that contain minute inclusions of chalcopyrite ("chalcopyrite disease"). However, minor rutile (with very similar reflectivity to the sphalerite, but strong birefringence in transmitted light) is also present, as sub/euhedra <25 microns in size.

In summary, this is a carbonate-Kspar altered, carbonate-albite-quartz-sericite-minor pyrite-chalcopyrite-sphalerite (?) -rutile veined rock of uncertain origin; carbonate is calcite and ankerite (?).

MM07-6 86.0: CALC-SILICATE/SKARN ROCK (CLINOPYROXENE-KSPAR-CARBONATE-PYRRHOTITE) CUT BY VEINLETS OF THE SAME MINERALS PLUS MINOR SPHALERITE

Hand specimen shows a pale grey, mostly siliceous, vaguely layered, fine-grained rock of uncertain origin cut by local layer-parallel grey or white veins with minor associated sulfides (likely mainly pyrrhotite since they are magnetic). The rock also shows minor reaction to cold dilute HCl (mainly in the veins), and pale yellow stain for K-feldspar (along the layering) in the etched offcut.

Modal mineralogy in polished thin section is approximately:

|                                        |      |
|----------------------------------------|------|
| Clinopyroxene (diopside-hedenbergite?) | 45%  |
| K-feldspar (mainly secondary?)         | 25%  |
| Carbonate (mainly calcite?)            | 15%  |
| Amphibole (secondary, after pyroxene?) | 10%  |
| Pyrrhotite                             | 3-5% |
| Quartz (secondary)                     | <1%  |
| Albite or scapolite (?)                | <1%  |
| Epidote-group mineral                  | <1%  |
| Sphalerite                             | <1%  |

The bulk of this sample consists of a very fine-grained, somewhat layered, calc-silicate assemblage (clinopyroxene partly retrograded to amphibole, and K-feldspar), minor pyrrhotite, partly altered to carbonate, particularly near major layer-parallel and thinner layer-oblique veinlets of carbonate ±clinopyroxene-minor epidote group mineral (zoisite/clinozoisite?), pyrrhotite and sphalerite.

In the wallrock, layering is vaguely defined by variations in grain size and relative proportions of the main minerals, clinopyroxene and K-feldspar (or in places, carbonate). Clinopyroxene forms ragged, irregular subhedra to anhedral that are so fine (rarely over 50 microns in diameter) and poorly crystallized they are difficult to identify, but in general the somewhat elongated, subhedral examples show extinction at around 45 degrees, indicative of clinopyroxene. They are colourless to pale greenish, suggesting a diopside to possibly hedenbergitic composition (?). In places, they appear to be pseudomorphed by a brownish-green mineral with smaller extinction angle that is likely secondary (retrograde) amphibole. K-feldspar, identified mainly by the yellow stain in the etched offcut, occurs as even finer-grained subhedral crystals mostly <35 microns in diameter, interstitial to the pyroxene. There could be minor quartz mixed with this material, but this is difficult to confirm since the crystals of possible quartz are not in contact with Kspar to compare refractive indices with. Where carbonate is present, it forms interlocking subhedra mainly <50 microns in diameter that could be calcite or dolomite/ankerite (?); in these areas clinopyroxene appears to be recrystallized, forming subhedra up to 0.2 mm long. Pyrrhotite is significant, locally making up almost 10% of the rock mass, finely disseminated throughout the wallrock as sub- to euhedral crystals mainly <50 microns (locally to 0.1 mm, or in aggregates up to 0.2 mm across). Narrow (<0.5 mm thick) veinlets oblique to layering consist of either carbonate, or a clear, colourless mineral tentatively identified as albite (or scapolite?) on the basis of white etched appearance in the offcut (lack of yellow stain) and length-fast character, precluding Kspar or quartz respectively.

Layer-parallel veins consist of carbonate (clear, likely calcite, as ragged subhedra up to 0.35 mm), clinopyroxene (elongate subhedra up to 0.35 mm long) and minor epidote-group mineral as subhedra mainly <50 microns long with anomalous blue and lime-green interference colours (could be zoisite or clinozoisite?). In the veins, pyrrhotite occurs as coarser-grained aggregates up to 0.35 mm, locally associated with lesser sphalerite as red-brown (moderate to high Fe) ragged subhedra mostly <0.15 mm across. Sphalerite is locally intergrown with pyrrhotite.

In summary, this is a calc-silicate or "skarn" rock composed of vaguely layered clinopyroxene, K-feldspar, variable carbonate, and significant pyrrhotite (could also be traces of quartz?), cut by layer-parallel veins of carbonate-clinopyroxene-minor zoisite/clinozoisite, pyrrhotite-sphalerite, and later layer-oblique veinlets of carbonate or albite/scapolite (?). Carbonate may include both calcite and dolomite/ankerite (?).

MM07-6 138.4: BRECCIA OF CARBONATE (LIMESTONE/MARBLE?) CLASTS WITH TRACE PYRITE, VEINLET MATRIX OF CARBONATE-AMPHIBOLE-QUARTZ?±SPHENE/RUTILE

This sample is similar to MM07-5 105.1, carbonate breccia or brecciated carbonate rock, composed of fine-grained grey, white or pink, angular clasts up to at least 5 cm in maximum dimension, cut and/or cemented by a veinlet network/breccia matrix of dark grey-green material with traces of sulfides. The rock is not magnetic, and shows no stain for K-feldspar in the etched offcut, but reacts strongly and vigorously to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

|                                   |      |
|-----------------------------------|------|
| Carbonate (mainly calcite?)       | 90%  |
| Amphibole (tremolite-actinolite?) | 7-8% |
| Quartz (?)                        | 1-2% |
| Pyrite                            | <1%  |
| Sphene, trace rutile              | <1%  |

Clasts are composed mainly of carbonate, likely calcite to judge by the strong reaction to HCl in hand specimen, with traces of pyrite, or coarser-grained carbonate and amphibole, minor quartz (?) where recrystallized near the matrix veinlets. The matrix consists mainly of amphibole, coarse-grained carbonate, the mineral tentatively identified as quartz (?) and traces of sphene and rutile.

In the clasts, carbonate generally forms interlocking subhedral to euhedral crystals mostly <0.3 mm in diameter, but locally up to 0.5 mm. The crystals are commonly twinned, and look to be recrystallized (coarsened) by deformation and/or hydrothermal activity from the original grains of limestone (?). However, subsequent annealing is indicated by common triple junctions. Rarely, discrete patches up to 1 mm across composed mainly of a fine-grained, granular mineral with low birefringence (first-order orange), possibly quartz (?), could represent possible siliceous clasts within the former limestone (?).

The matrix is composed of irregular, discontinuous patches locally up to 5 mm across, of coarse-grained, somewhat clearer carbonate forming sub- to locally euhedral crystals up to about 1 mm in diameter, and irregular aggregates to 3 mm across of what appears to be amphibole as ragged, fibrous subhedral crystals up to about 1 mm long, or locally irregular dark veinlets <1.5 mm thick. Relatively high birefringence for the amphibole is probably due to a rather thick section; pale green pleochroism and relatively small extinction angle around 15 degrees suggests that the amphibole is likely a member of the tremolite-actinolite series. Granular patches of a fine-grained, colourless mineral forming subhedra mostly <0.15 mm in diameter, that appear to be length-slow, are tentatively identified as quartz (?); unusually high birefringence (to first-order red) is possibly due to a very thick section. Locally, in the better-defined, narrow, dark-coloured veinlets, the amphibole is brownish-green; here it seems to be strongly replaced by carbonate, and contains Ti minerals (see below).

Pyrite, forming mainly cubic euhedral crystals rarely over 30 microns in size (but locally in loose aggregates up to 80 microns) is mostly disseminated within the clasts and occurs only rarely within the matrix. Pyrite rarely contains rutile inclusions <10 microns in size. Minor sphene occurs included in the pyroxene/amphibole matrix material as 35 micron sub/euhedra that locally contain traces of rutile as minute euhedral crystals mostly <10 microns long.

In summary, this appears to represent a brecciated carbonate rock (recrystallized limestone or marble?) with traces of pyrite, cemented by narrow veinlets/wider breccia matrix of carbonate, amphibole (tremolite-actinolite?), possible quartz (?), minor sphene and trace rutile.

MM07-7 67.8: METASOMATIZED LIMESTONE (BLASTIC CARBONATE-GARNET-QUARTZ-TREMOLITE AGGREGATES IN COARSE CALCITE MATRIX; ACTINOLITE FRACTURES)

Hand specimen shows what looks like a coarsely plagioclase phyric porphyry, composed of 40-50% 2-10 mm sized altered plagioclase glomerocrysts (mafic relics not visible) in a grey aphanitic groundmass, rarely cut by anastomosing pale green fractures. However, the thin section shows that the rock is mainly carbonate. The rock is not magnetic, and shows no stain for K-feldspar in the etched offcut, but reacts strongly to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

|                                                              |     |
|--------------------------------------------------------------|-----|
| Carbonate (mainly calcite; possible dolomite/ankerite?)      | 85% |
| Garnet (?)                                                   | 5%  |
| Amphibole (relict, carbonate altered, tremolite-actinolite?) | 5%  |
| Quartz (secondary)                                           | 5%  |

In spite of the altered igneous appearance in hand specimen, in thin section, there is no indication of an igneous origin for this rock. Instead, it is composed of glomeratic, porphyroblastic aggregates of brown carbonate (dolomite/ankerite?), anisotropic garnet (?), relict carbonate altered amphibole, and quartz, in a relatively coarse-grained matrix of clear carbonate (calcite).

In the aggregates, a crude zoning is apparent from cores of garnet (?) crystals and patches of fine-grained quartz, surrounded by relict amphibole that is strongly replaced by the surrounding brown carbonate. Garnet crystals are colourless to pale yellowish and are mainly euhedral (locally perfectly so, especially for smaller crystals <0.2 mm in diameter) and range up to 0.75 mm. They are generally anomalously anisotropic, locally displaying what may be described as sector twinning, but rarely show zoning (such anomalous garnets are typical of contact metamorphic zones). Quartz forms interlocking sub- to anhedral crystals rarely over 0.15 mm in diameter, in patches up to about 0.5 mm across that commonly contain small euhedral garnets. The quartz is weakly strained (undulose extinction), suggestive of minor strain, but is locally cored by radial fibrous aggregates of brownish material with negative relief compared to quartz, that appear to be chalcedony (?). In the surrounding area, fibrous to acicular sub/euhedral crystals up to 0.3 mm long of almost colourless amphibole (tremolite?) are generally best identified where they project into the quartz aggregates, since outside this they are strongly replaced by the surrounding brownish carbonate. This carbonate is generally very fine-grained (individual sub/euhedral crystallites mostly <25 microns in size, but commonly semi-continuous optically for up to 0.5 mm) and may be Fe-Mg rich (dolomite/ankerite?) or may be merely Fe-calcite (?). In places they display a radiating fibrous arrangement that may reflect derivation from former amphibole.

In the surrounding matrix, clear calcite forms interlocking, but annealed-looking, sub/euhedral crystals up to about 1 mm in diameter, suggestive of derivation from a carbonate rock (limestone) such as seen in the breccia clasts in samples MM07-5 105.1 and MM07-6 138.4 than from an igneous rock.

In the dark-coloured, anastomosing fractures mostly <0.5 mm thick that cross the slide, remnants of fibrous, brownish-coloured amphibole (possibly originally actinolitic?) are strongly replaced by brownish, possibly Fe-bearing, carbonate.

In summary, this appears to represent a strongly contact metamorphosed or metasomatized carbonate rock (limestone?) now altered to glomeratic porphyroblastic aggregates of garnet (?), quartz ±chalcedony, tremolitic amphibole, and brown Fe-carbonate, in a matrix of coarse-grained, recrystallized calcite, locally cut by narrow irregular fractures of brownish (actinolitic?) amphibole and Fe-carbonate (these are green in hand specimen, and possibly of retrograde origin).



MM07-7 69.3: METASOMATIZED LIMESTONE (QUARTZ±KSPAR-CLINOPYROXENE CLASTS IN CARBONATE ±QUARTZ-KSPAR-CLINOPYROXENE-ACTINOLITE MATRIX)

This sample also looks like a pseudo-igneous rock (rounded dark grey quartz phenocrysts in a fine-grained buff-white to pale greenish matrix) but texture further revealed in the etched offcut shows that the quartz-rich areas are actually mostly clasts (siltstone-like, locally with Kspar, or with Kspar micro-veinlets that are cut off at the margins of the clast). Veinlet-like aggregates are carbonate (scratched by steel, react to cold dilute HCl where scratched), in a matrix that reacts strongly to cold dilute HCl and stains slightly for K-feldspar. Late fractures cutting both clasts and matrix also stain pale yellow and are softer than steel; there is no magnetism detectable in the sample.

Modal mineralogy in polished thin section is approximately:

|                                                          |        |
|----------------------------------------------------------|--------|
| Carbonate (mainly calcite, possible dolomite in veins?)  | 55%    |
| Quartz (mainly secondary)                                | 30%    |
| K-feldspar (partly secondary)                            | 7-8%   |
| Clinopyroxene                                            | 3-5%   |
| Unidentified (nearly isotropic, matrix/veinlet material) | 1-2%   |
| Amphibole (actinolite?)                                  | 1%     |
| Sphene, trace rutile                                     | <1%    |
| Chalcopyrite, unidentified (galena?)                     | traces |

Siliceous clasts make up 25-30% of this sample, in a matrix of coarse-grained carbonate, lesser ragged (relict?) clinopyroxene, minor quartz and K-feldspar, cut by veinlets of an unidentified mineral and minor Kspar.

Clasts have mainly rounded to subrounded, or locally irregular, outlines up to about 5 mm, composed of fine-grained, granular (mainly <35 micron) sub/anhedral quartz and lesser, variable amounts of Kspar and ragged clinopyroxene. Kspar is either interstitial to the quartz (anhedra mostly <25 microns) or forms subhedra to 0.75 mm long, with Carlsbad twinning (the latter particularly where it is present in almost monomineralic, Kspar-rich clasts). Most of the Kspar, particularly the coarser-grained material, is strongly clouded by minute particles of clay?/hematite, giving it a brownish colour in thin section. Locally, narrow veinlets (<0.5 mm thick) that are cut off at the margins of the clasts, are composed of either clear, subhedral interlocking quartz crystals up to 0.1 mm in size, or rare brownish Kspar as minute (<15 µm) anhedral. Minor sphene, forming aggregates to 75 µm of rounded subhedra <25 µm in size that locally contain minute (<10 µm) euhedral rutile crystals, are locally present (also occur in the matrix). Rarely, traces of sulfide (chalcopyrite, as subhedra <0.2 mm long, intergrown with a white unidentified phase (reflectivity as for galena, but not visibly softer than chalcopyrite) as subhedra of similar size, and traces of clinopyroxene as ragged fibrous subhedra <0.15 mm in size) occur within or at the margins of siliceous clasts, in part possibly associated with quartz veinlets crossing the clasts (or with carbonate of the adjacent matrix?).

In the matrix, coarse carbonate forms sub- to euhedral crystals up to about 1.5 mm in diameter that locally have a vein-like distribution (discontinuous elongate, grey areas in etched offcut). Although most matrix carbonate is likely calcite (clear, strong reaction to HCl), carbonate in the veinlets, although also clear in thin section, only reacts to HCl where scratched and therefore could be dolomite. In places, coarse clear carbonate crystals are surrounded by finer-grained, dark brownish coloured, ragged fibrous crystals of clinopyroxene <0.5 mm in diameter, locally partly replaced at the margins by pale green, fibrous amphibole (actinolite?) and by carbonate. A mineral tentatively unidentified (quartz?, but mainly with very low to nearly zero birefringence), occurs as ragged irregular subhedra to 1.2 mm, poikilitically enclosing carbonate; this could be the mineral with pale yellow stain for Kspar (?). A 1 mm thick veinlet filled with a similar almost isotropic mineral (or mineraloid?) has virtually no relief against quartz in clasts it crosses, but the near-zero birefringence and softness in hand specimen might suggest a clay (?) like halloysite (?).

In summary, this appears to be a highly metasomatized carbonate rock (?) containing clasts of quartz-Kspar-clinopyroxene-trace sphene, sulfides in a recrystallized calcite (± vein-like dolomite?) matrix with minor quartz (?), Kspar, and relict clinopyroxene altered to actinolite, trace sphene/rutile.

MM07-8 51.2: INTENSELY POTASSIC (KSPAR-CLAY?/SERICITE-CARBONATE-MINOR QUARTZ?-PYRITE-SPHENE/RUTILE) ALTERED INTERMEDIATE HYPABYSSAL INTRUSIVE (?)

Hand specimen shows a fine-grained, relatively massive, pale greenish grey rock of uncertain derivation (but with faintly igneous-looking texture on a cut surface), cut by planar fractures coated with a white, soft mineral that shows only limited reaction to HCl. The rock is not magnetic, shows minor reaction to cold dilute HCl, and abundant stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

|                             |      |
|-----------------------------|------|
| K-feldspar                  | 65%  |
| Clay?/sericite              | 15%  |
| Quartz                      | 10%  |
| Carbonate (mainly calcite?) | 7-8% |
| Pyrite                      | 1-2% |
| Sphene/rutile               | <1%  |
| Apatite                     | <1%  |

It is not clear what the protolith for this strongly altered rock was, since the microfracture-controlled clay?/sericite and carbonate, minor pyrite, sphene alteration obscures the original texture. In places, relict K-feldspar (and possibly quartz) crystal relics (possibly representing phenocrysts?) are visible, but the matrix hosting them could represent either a phaneritic groundmass dominated by small feldspar crystals and interstitial quartz, or a more equigranular mosaic. Although all feldspar now visible appears to be Kspar, it may be secondary, after former plagioclase (?).

Feldspar “phenocrysts” (or blastic crystals grown during alteration?) have sub- to euhedral, ghost-like outlines up to 3 mm long, with an internal structure suggestive of former small lath-like feldspar crystals <0.25 mm long, much like those in the adjacent groundmass that may have been originally plagioclase, now replaced by alteration to Kspar. Quartz crystals within these ghost-like areas are similar to quartz crystals outside them, with ragged irregular but locally subhedral outlines up to 0.65 mm long and apparently mostly interstitial to former small feldspar laths (which control the shape of the quartz crystals). Thus the quartz has the appearance of a mostly primary phase rather than secondary (but some may be secondary). In addition, vaguely defined areas with fine-grained texture are suggestive of lithic clasts, with a tuffaceous (?) origin. Locally, relict euhedral crystal outlines up to 1.5 mm long replaced by the clay? mineral, carbonate (subhedra to 0.6 mm, likely calcite?) and locally sub/euhedral crystals of sphene or rutile (?) up to 0.2 mm in diameter, are suggestive of former mafic mineral crystals. Rarely, associated needle-like apatite crystals up to 0.8 mm long reinforce this hypothesis. Scattered pyrite as cubic euhedra up to 0.25 mm in diameter are also locally associated with these relict mafic (?) sites.

The overprinting fracture/microfracture network is mainly filled with fine-grained clay?/sericite as flakes respectively either mostly <10 microns in size, with low (near-zero to first-order grey) birefringence, or somewhat larger, up to 50 microns, with moderate (yellow-orange) birefringence. Areas of the former (clay?) are up to 1 mm across, but the latter (sericite) is more or less confined to narrower fractures <50 microns thick that form an extensive, anastomosing network over the entire sample, except in a major, dark-coloured fracture up to 0.75 mm thick cutting the slide. In this fracture zone, minor, extremely fine-grained sulfides mostly <10 microns in diameter are mainly pyrite (locally mixed with rutile as subhedra up to 20 microns in size).

In summary, my (tentative) opinion is that this sample represents an intensely potassic (Kspar-clay?/sericite-minor carbonate-possible quartz?-pyrite-sphene/rutile) altered and stockwork fractured rock that may have originally been an intermediate hypabyssal (weakly porphyritic) intrusive composed mainly of plagioclase and possible mafic minerals, minor (<10%) quartz. However, the alteration is so strong that this interpretation is speculative.

MM07-8 64.7: INTENSE POTASSIC (KSPAR-CARBONATE-GARNET-“HYDROBIOTITE” ± QUARTZ-SPHENE-PYRRHOTITE/PYRITE) ALTERED ROCK OF UNCERTAIN DERIVATION

Hand specimen shows a fine-grained, greenish-grey to locally pinkish-buff coloured, intensely fractured/veined altered, skarny or calc-silicate looking rock of uncertain derivation. Parts of the rock are strongly magnetic, parts shows strong reaction to cold dilute HCl, and parts show strong yellow stain for K-feldspar in the etched offcut (not the pink-buff areas, though!). Modal mineralogy in polished thin section is approximately:

|                                                    |       |
|----------------------------------------------------|-------|
| K-feldspar (mainly secondary)                      | 35%   |
| Carbonate (calcite, dolomite/ankerite?)            | 25%   |
| Garnet                                             | 15%   |
| “Hydrobiotite” (retrograde)                        | 15%   |
| Quartz                                             | 5%(?) |
| Sphene                                             | 2-3%  |
| Pyrrhotite (trace pyrite, chalcopyrite, marcasite) | 1-2%  |

This is a complicated, altered rock composed mainly of fine-grained K-feldspar, carbonate, and a greenish-brown mica (accessory quartz, sphene/rutile); these are the yellow-stained areas in etched offcut. The carbonate and greenish mica appear to locally replace garnet, which occurs as masses (the pinkish-buff areas in hand specimen) and in veins, the latter are mostly re-opened and significantly replaced by carbonate (etched white areas in the offcut).

In the wallrock, Kspar forms mainly interlocking ragged subhedra <50 microns (locally to 0.1 mm) in size, locally mixed with a little quartz as subhedra mostly <40 microns in diameter. Patchy aggregates, mainly <0.35 mm across, composed of brownish carbonate and greenish-brown mica are abundant, but are so intimately intergrown that it is not sure if the brown colour of the carbonate indicates Fe-bearing (Fe-calcite or ankerite?) composition, or if it is merely due to the mica. Grain size of these two intergrown minerals is generally <20 microns. The green mica is likely ferriferous, similar to a “hydrobiotite” or Fe-rich chlorite. It is best developed in narrow veins up to 0.35 mm thick, in which flakes are subhedral and up to 0.15 mm in diameter, locally with relict (?) structure suggestive of having replaced former amphibole (?). Although likely retrograde, these veins are cut by narrow veinlets mostly <0.1 mm thick, which are filled with relatively clear carbonate, likely calcite, probably related to the major calcite veining that overprints one end of the section. Minor garnet (sub/euhedra <0.2 mm) occur scattered in the wallrock, and there is significant sphene as irregular aggregates <0.2 mm across of rounded <25 micron subhedra, mainly associated with the carbonate/mica aggregates, which therefore may be after former pyroxene (?) in a skarny rock.

In the massive garnet replacements, which are semi-continuous optically and up to 1.5 cm across, a gradation is apparent from virtually isotropic rim areas to strongly anisotropic (grey-white interference colours), in places with zonal or sector twinning. The garnet mass is highly fractured, and strongly attacked around the margin, or in places rimmed, by brownish carbonate. A similar relation is evident in adjacent veins in which islands of remnant garnet are left in a matrix of the brownish carbonate; these are cut or re-opened by veinlets up to 0.5 mm thick of clear calcite, related to major veins up to 5 mm thick in which the clear calcite forms sub/euhedral crystals up to 2 mm in size, commonly aligned along the margins of the veins.

Sulfides appear to be mostly controlled along the early (green mica) vein set, or a variant that contains significant garnet as subhedra mostly <0.5 mm in diameter; these are also cut by the late clear calcite vein set. Sulfides are mostly pyrrhotite (subhedra to 0.1 mm, rarely aggregating to 0.25 mm where it is partly replaced by marcasite euhedra to 70 microns), locally intergrown with a little pyrite (sub/euhedra <25 microns in size) and traces of chalcopyrite <10 microns in size, and somewhat more abundant where associated with brownish carbonate and veinlets along which the aggregates of sphene are common (this indicates alteration strong enough to mobilize TiO<sub>2</sub>).

In summary, this is a strongly potassic/calc-silicate (Kspar-carbonate-garnet-“hydrobiotite”-minor quartz?-sphene-pyrrhotite/pyrite ±chalcopyrite, marcasite) altered rock of uncertain derivation; garnet (and pyroxene/amphibole?) are retrograded to early (Fe-Mg?) carbonate and cut by late calcite.

MM07-8 261.2: BIOTITE-CLINOPYROXENE LATITE PORPHYRY (ACCESSORY SERICITE-CALCITE-PREHNITE-QUARTZ-MAGNETITE-AMPHIBOLE-APATITE-SPHENE-PYRITE)

Hand specimen is medium-grained, pinkish-grey, porphyritic felsic hypabyssal intrusive composed of pale greenish (slightly sericitized) plagioclase and smaller black to dark green mafic phenocrysts in a K-spar rich groundmass. The rock is magnetic, shows trace reaction to cold dilute HCl, and major stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

|                                                   |      |
|---------------------------------------------------|------|
| K-feldspar (mainly primary, groundmass)           | 40%  |
| Plagioclase (phenocrysts; albitized, sericitized) | 25%  |
| Clinopyroxene                                     | 15%  |
| Biotite (brown, primary)                          | 10%  |
| Clay?/sericite (after feldspars)                  | 2-3% |
| Carbonate (mainly calcite?)                       | 1-2% |
| Prehnite (partly after plagioclase)               | 1-2% |
| Quartz (mainly primary)                           | 1-2% |
| Magnetite, trace ilmenite                         | 1-2% |
| Amphibole (secondary, tremolite, actinolite?)     | 1%   |
| Chlorite, green biotite (after biotite)           | <1%  |
| Epidote (clinozoisite?)                           | <1%  |
| Apatite                                           | <1%  |
| Sphene                                            | <1%  |
| Pyrite                                            | <1%  |

This sample consists of about 30% relict plagioclase, 15% clinopyroxene, and <10% biotite crystals in a phaneritic groundmass of Kspar with minor interstitial quartz, prehnite, carbonate, amphibole, chlorite, and accessory magnetite-apatite-sphene-pyrite.

Plagioclase phenocrysts are less readily visible in thin section due to strong alteration to albite (only relict twinning locally visible; relief is slightly positive compared to surrounding Kspar) and “saussuritization”, or replacement by fine-grained sericite (flakes mostly <25 µm) or locally prehnite (clusters of sub- to euhedral crystals mostly <0.15 mm long) or clinozoisite (subhedra to 50 µm).

Clinopyroxene phenocrysts have glomeratic outlines up to 2.5 mm across composed of euhedra to 1.5 mm long; the crystals are pale green but non-pleochroic, with large extinction angle around 40 degrees, suggestive of either augite or diopside. The crystals commonly contain euhedral inclusions of apatite (to 0.5 mm long), biotite to 0.65 mm, and/or opaque oxides (mainly magnetite, subhedra to 0.7 mm that rarely contain included pyrite <0.2 mm in size, or are associated with ilmenite to 0.15 mm); sphene is also associated with pyroxene as subhedra to 0.35 mm. Locally, the pyroxene crystals are partly altered to or contain interstitial crystals of carbonate (sub/euhedra to almost 1 mm in diameter, likely mainly calcite).

Biotite crystals are mainly euhedral and up to 2.5 mm in diameter, with strong greenish-brown to deep red-brown pleochroism (except where replaced by deep green chlorite with F:M likely 0.6-0.7, or green ferriiferous biotite, both mostly <0.5 mm in diameter). Minor magnetite is also associated with biotite.

K-feldspar forming the groundmass is relatively coarse, occurring as mainly euhedral, lath-shaped crystals up to 1.5 mm long (only slightly smaller than the phenocryst phases, and locally in semi-optically continuous aggregates suggestive of former even larger crystals, in part replacing plagioclase (?). Interstices are filled with minor quartz (irregular subhedra to 0.3 mm whose shape is determined by the Kspar crystals) and a variety of deuteritic minerals including prehnite (sub/euhedra to 0.2 mm), carbonate (as described above), or locally colourless amphibole (tremolite?) as sprays of acicular euhedra <0.35 mm long, or pale green actinolite (?) up to 1.5 mm long.

In summary, this is biotite-pyroxene latite porphyry (accessory magnetite/trace ilmenite/pyrite, quartz, apatite, sphene) with interstitial, deuteritic calcite, prehnite, amphibole; plagioclase phenocrysts are altered to albite-clay?/sericite-prehnite-clinozoisite, and biotite to chlorite.

MM07-8 279.0: INTENSELY CARBONATE (CALCITE±DOLOMITE/ANKERITE?)-  
AMPHIBOLE-HYDROBIOTITE RETROGRADE ALTERED SKARN/CALC-SILICATE ROCK

Hand specimen shows a massive, but intensely fractured, pale greenish-grey/white, strongly altered rock of uncertain derivation cut by anastomosing veinlet networks of pale yellow-green material that are softer than the adjacent wallrock. The rock is not magnetic, and shows no stain for K-feldspar in the etched offcut, but shows strong reaction to cold dilute HCl in both wallrock and veinlets. Modal mineralogy in polished thin section is approximately:

|                                                         |      |
|---------------------------------------------------------|------|
| Carbonate (mainly calcite, possible dolomite/ankerite?) | 65%  |
| Clinopyroxene (relict)                                  | 15%  |
| Amphibole (secondary, tremolite-actinolite?)            | 10%  |
| “Hydrobiotite”                                          | 7-8% |
| Pyrite                                                  | 1%   |
| Quartz (secondary)                                      | <1%  |
| Sphene, trace rutile                                    | <1%  |

This sample consists mainly of carbonate, with patches and veinlets of relict calc/silicate or skarn assemblages (relict clinopyroxene largely retrograded to carbonate, amphibole and “hydrobiotite”); there is very minor accessory sulfide and trace rutile.

The bulk of this sample (more than half) consists of relatively clear, coarse-grained carbonate that is likely mainly calcite, largely vein- or veinlet-controlled, and forming sub- to locally euhedral crystals up to about 1.5 mm in diameter. The intervening areas and patches (some with rounded outlines up to almost 2 cm in size, suggestive of relict clasts) are also largely carbonate, but this carbonate is finer-grained (generally <50 micron subhedra) and brownish, and is intimately mixed with (or largely after?) ferromagnesian minerals that appear to have started as clinopyroxene and been variably retrograded to amphibole and “hydrobiotite”. The finer-grained, brownish carbonate may include some dolomite or ankerite (?). Finely disseminated pyrite, forming sub- to euhedral crystals rarely over 0.1 mm in diameter, are unevenly distributed in both clear calcite and carbonate-calc/silicate areas; traces of rutile as minute euhedra <15 microns long are mostly found within calcite.

In the calc/silicate areas, remnant clinopyroxene is locally barely distinguishable as ragged (corroded), colourless subhedral prisms up to 0.5 mm long, with high birefringence and large (40-45 degree) extinction angle. It may be diopside rather than hedenbergite since there is no greenish colour visible. Locally, in a position between the relict pyroxene and the surrounding and replacing carbonate, pale greenish, fibrous to acicular subhedra <0.35 mm long with small extinction angle near 10 degrees (likely tremolite-actinolite) or brownish-green, finely flaky material (likely “hydrobiotite” or Fe-rich chlorite), appear to replace former clinopyroxene. However, in places, a vaguely preserved, possible relict zoning structure may suggest that there were also former large, sub/euhedral garnet crystals or porphyroblastic aggregates up to 1 cm across. These areas are slightly more brownish, and enriched in the “hydrobiotite” and contain small (<0.1 mm) irregular aggregates of quartz (?) as subhedra <25 microns in size, or locally sphene composed of rounded subhedra mainly <30 microns in diameter.

Narrow (<0.2 mm thick) late veinlets cutting both areas of the rock are mainly filled with brownish green, flaky “hydrobiotite” as bent (deformed) subhedral crystals <0.15 mm in diameter. As is typical of hydrobiotite, these are non-pleochroic and the veinlets are late in the hydrothermal history of the sample.

In summary, this appears to represent an intensely carbonate altered, possibly originally calc-silicate or skarny altered rock that contained clinopyroxene (diopside?) and possibly garnet (?), now strongly retrograded to tremolite-actinolite, “hydrobiotite” and brownish (ferromagnesian?) carbonate; late veinlets are filled with hydrobiotite.

MM07-8 292.65: BIOTITE/GREEN MICA-KSPAR-ALBITE?-MAGNETITE-CHALCOPYRITE-PYRITE HORNFELS, ZONES OF GARNET-PYROXENE-ALKALI FELDSPAR-SPHENE SKARN RETROGRADED TO CARBONATE NEAR CALCITE VEINS

Hand specimen shows an extremely fine-grained, dark brown (hornfelsed sedimentary rock?) with layer-parallel pink, green and black zones, cut by a sub-parallel, sub-planar white calcite vein. The rock is locally strongly magnetic (especially in the brown rock), shows minor reaction to cold dilute HCl (except strong in the white vein), and patchy stain for K-feldspar in the etched offcut.

Modal mineralogy in polished thin section is approximately:

|                                            |     |
|--------------------------------------------|-----|
| Alkali feldspar (K-feldspar)               | 20% |
| (albite?)                                  | 17% |
| Garnet                                     | 15% |
| Clinopyroxene (?)                          | 15% |
| Carbonate (calcite and dolomite/ankerite?) | 15% |
| Biotite (brown and greenish)               | 15% |
| Magnetite                                  | 1%  |
| Pyrite, chalcopyrite                       | 1%  |
| Sphene, rutile                             | 1%  |

The mineralogy of this rock is difficult to determine due to the intimate intergrowths and fine grain size (commonly <30 microns, the thickness of the section, causing minerals to be piled on top of each other and therefore difficult to separate). The dark brown rock is indeed similar to a hornfels, composed of small (mainly <50 micron) aggregates of biotite composed of medium brown subhedral flakes mostly <20 microns in diameter and cored by magnetite/lesser sphene both as sub/euhedra rarely over 20 microns in size, in a matrix of alkali feldspar (subhedral laths to 0.1 mm long, probably Kspar and albite?) and minute (10-12 micron) flakes of pale green mica (?). It is not clear if the extinction is parallel (as in mica) or slightly oblique (as in amphibole) in these minute crystals. In places, veinlets up to 0.5 mm thick consist of the same minerals (alkali feldspar, brown biotite cored by magnetite, pale green biotite) but coarser-grained. It is not clear whether these veinlets cut thin (<0.5 mm) layer-parallel veinlets that are marked by an increase in magnetite mainly <20 microns in diameter. Sulfides, including sub-equal amounts of pyrite and chalcopyrite, are scattered sub/euhedra rarely over 50 microns in size, but locally aggregating to 0.1 mm.

The pink/green zones are difficult to be sure of due to, but appear to be “spots” of reddish-brown garnet (almandine?) and very fine-grained, pale green clinopyroxene (?), commonly retrograded to carbonate and possibly “hydrobiotite” (?), especially the pyroxene, in a matrix of alkali feldspar that is likely mostly Kspar to judge by the stain in etched offcut, but grades to albite (?). Garnets are generally euhedral and <0.2 mm in diameter, but commonly occur in aggregates with rounded to subhedral outlines up to 3 mm across, suggestive of porphyroblasts (within the aggregates, garnet varies from nearly isotropic near the cores to strongly anisotropic, twinned and zoned near the rims). Pyroxene tends to rim the garnet areas, forming ragged an- to subhedral crystals rarely over 35 microns long that are difficult to identify with certainty (amphibole may be present, but extinction angles are hard to measure). Interstices are filled with a clear mineral resembling quartz but length-fast, indicative of alkali feldspar as sub/euhedra <0.1 mm long. Overprinting carbonate forming ragged aggregates to 1.5 mm of subhedra <0.5 mm in size is pale brownish at the margins (dolomite?) but clear at the cores (calcite, similar to that in the late crosscutting veins that are up to 3 mm thick, composed of bladed euhedra up to 1.5 mm long oriented sub-parallel or oblique to vein walls. There is almost no magnetite or sulfide in the garnet-pyroxene zones. Sphene occurs as crudely subhedral aggregates to 0.2 mm across of granular, 5-10 micron subhedra, commonly cored by rutile of similar size; the aggregates may be after former ilmenite (?) crystals.

In summary, this appears to represent an intensely biotite/green mica-Kspar-albite-magnetite  $\pm$ pyrite-chalcopyrite hornfelsed (possibly sedimentary?) rock, with layer-parallel zones of skarn (garnet-clinopyroxene-alkali feldspar-minor sphene  $\pm$ rutile) alteration, retrograded to carbonate ( $\pm$ amphibole, hydrobiotite?) near late veins of clear calcite.

MM07-9 106.7: MARBLE WITH SKARNY ALTERED (CLINOPYROXENE-KSPAR ±PYRITE-PYRRHOTITE) LAYERS; CALCITE-GARNET-EPIDOTE-PLAGIOCLASE-QUARTZ VEINS

Hand specimen shows pale grey, very fine-grained, massive carbonate rock cut by (layer-parallel?) zone of greenish-grey altered rock apparently related to or associated with oblique veining containing pink (garnet) and white (calcite) mineralogy. The rock is magnetic (mainly in the darker greenish grey rock, and shows major reaction to cold dilute HCl, but only minor stain for K-feldspar in the etched offcut (in the darker greenish grey layers, which are offset by the veining). Modal mineralogy in polished thin section is approximately:

|                             |      |
|-----------------------------|------|
| Carbonate (mainly calcite)  | 60%  |
| Clinopyroxene               | 10%  |
| K-feldspar                  | 10%  |
| Epidote (clinozoisite?)     | 5%   |
| Garnet                      | 5%   |
| Plagioclase (veinlets only) | 5%   |
| Pyrrhotite                  | 2%   |
| Quartz (secondary)          | 1-2% |
| Pyrite                      | 1%   |
| Sericite, clay?             | <1%  |
| Scapolite (?)               | <1%  |

The bulk of this slide is composed mainly of fine-grained carbonate (minor sulfides), except at one end where it consists mainly of alkali feldspar and clinopyroxene (?) plus minor sulfides. In this area it is cut by veinlets of carbonate, quartz, garnet and epidote-group mineral. The carbonate-rich rock (relict limestone?) is cut by narrow calcite-alkali feldspar veinlets similar in orientation to and likely related to the veins with more complex mineralogy.

In the relict limestone (?), carbonate (likely mainly calcite) forms interlocking subhedral crystals rarely over 50 microns in diameter, with local triple junctions indicative of annealing since deformation. Pyrrhotite is disseminated throughout as sub/euhedral crystals also rarely over 50 microns in size, clearly related to the calcite-alkali feldspar veins, which contain pyrrhotite up to 0.25 mm in size either within the veins or their immediate envelopes. Scattered pyrite forms euhedral cubic crystals up to 0.5 mm long. In the veins, which are mostly <1 mm thick, carbonate forms ragged subhedra up to 0.5 mm in size, and the mineral tentatively identified as feldspar (etched white in the offcut, so not Kspar) forms lath-like sub/anhedra <0.4 mm long, heavily clouded by incipient clay?/sericite as flakes mostly <15 microns in size. Lack of strong negative relief against epoxy or carbonate suggests this could in fact be calcic plagioclase (?). In a few of these veins, scattered subhedral crystals to 0.15 mm long, both with moderate birefringence, but with length-fast, parallel or length-slow, highly oblique extinction, may be respectively scapolite (?) and clinopyroxene.

In the skarny altered layers, carbonate is subordinate and the rock is composed mainly of very pale green, granular clinopyroxene (?) as an/subhedral crystals rarely over 40 microns in size (only the largest suggest a large extinction angle) and pyrrhotite of similar size in a matrix of K-feldspar (mostly <25 microns in diameter). Near the contact with the relict limestone, coarser-grained clinopyroxene, carbonate and secondary quartz form subhedra to 0.12 mm in diameter. In the veins, carbonate (calcite) forming irregular subhedra to 1.2 mm in size is intergrown with very ragged, irregular aggregates up to 1.5 mm across of fine-grained garnet (generally completely isotropic), aggregates of colourless epidote as ragged subhedra to 0.35 mm long with strongly inclined extinction (clinozoisite?), lesser feldspar (calcic plagioclase as described above) and quartz as rounded subhedra to 0.25 mm. Sulfides within these veins appear to be likely accidental inclusions.

In summary, this is recrystallized limestone (marble) and interlayered skarny altered rock (clinopyroxene-Kspar), both with accessory pyrrhotite and minor pyrite; veins are calcite-garnet-quartz-clinozoisite-possible calcic plagioclase-pyroxene-scapolite (?).

MM07-10 40.5: AMPHIBOLE-PLAGIOCLASE PHYRIC HYPABYSSAL DACITE? PORPHYRY, ALTERED TO ALBITE/KSPAR-QUARTZ-EPIDOTE-SERICITE-CALCITE-PYRITE

Hand specimen is dark grey, fine-grained, finely porphyritic hypabyssal intrusive rock, cut by a network of narrow paler-coloured fractures. The rock is weakly magnetic, shows minor reaction to cold dilute HCl, and trace yellow stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

|                                                |      |
|------------------------------------------------|------|
| Plagioclase (albitized?)                       | 55%  |
| Quartz (partly secondary)                      | 15%  |
| Amphibole (hornblende?)                        | 15%  |
| K-feldspar(mainly secondary?)                  | 5%   |
| Epidote-group minerals (zoisite, clinozoisite) | 3%   |
| Sericite                                       | 2%   |
| Carbonate (mainly calcite?)                    | 2%   |
| Magnetite                                      | 1-2% |
| Pyrite, trace chalcopyrite                     | 1%   |
| Apatite                                        | <1%  |
| Sphene                                         | <1%  |

This sample consists of about 30% feldspar phenocrysts (originally plagioclase) and 15% smaller amphibole crystals (likely secondary, possibly after former amphibole/pyroxene?), in an almost aphanitic groundmass of quartz, alkali feldspar and amphibole plus accessory magnetite, pyrite, apatite and sphene. Veins are quartz-epidote-sericite-magnetite, or late calcite.

Feldspar phenocrysts have subhedral, corroded outlines up to about 2.5 mm in size that are locally (especially near veins) partly replaced by patchy Kspar (ragged anhedral <0.35 mm in size), sericite (subhedral flakes mostly <25 microns in diameter), epidote (sub/euhedra <20 microns), and amphibole (sub/euhedra <45 microns long). Rarely, larger plagioclase crystals retain what looks to be primary twinning, with extinction  $Y^{010}$  up to 21 degrees suggesting a composition near An40 (andesine), but in general the alteration described above seems to be accompanied by albitization (refractive index generally below that of adjacent matrix quartz).

Amphibole altered relicts have euhedral lath-shaped outlines up to about 3 mm long that are mostly suggestive of amphibole. However, they have been replaced by fine-grained, fibrous secondary amphibole as euhedral needles mostly <0.2 mm long (but commonly semi-continuous optically over the entire pseudomorph), with medium to deep green pleochroism and extinction angle around 18°, suggestive of actinolitic hornblende (?). Minor carbonate locally replaces amphibole

In the groundmass, tightly interlocking crystals of quartz and alkali feldspar (mainly plagioclase, only minor Kspar) are mainly in the 20-40 microns diameter range. There is relatively little relief between the plagioclase and quartz, making it difficult to estimate the proportions of each. Small needle-like amphibole crystals are mainly <0.2 mm long. Accessory magnetite forms microphenocrysts with euhedral outlines up to 0.6 mm in diameter, apatite forms slender euhedral prisms up to 0.5 mm long, and sphene forms subhedra <0.25 mm in size that may replace former ilmenite.

In the veins and vein zones, which have only vaguely defined walls, quartz forms scattered subhedral crystals up to 0.25 mm in diameter, epidote-group mineral forms irregular aggregates of extremely fine-grained granular, weakly anisotropic material that in detail shows grey to bluish anomalous birefringence at the cores (typical of zoisite) and higher-order, lime-yellow to orange, birefringence at the margins (typical of clinozoisite). Fine-grained (mostly <40 micron) magnetite is closely associated with the epidote-group mineral aggregates, accounting for the dark colour. Sericite forms subhedral flakes mostly <50 microns in diameter that replace feldspars along the line of the veinlets. Calcite, forming elongated subhedra to 1.5 mm, occurs along these veinlets or in separate, later fractures. Minor sulfides, mainly pyrite as sub/euhedra to 0.25 mm, locally associated with minor chalcopyrite as subhedra <0.1 mm in size, are commonly associated with the veinlets.

In summary, this is hornblende?-plagioclase phyric, possibly dacitic, hypabyssal porphyry (accessory magnetite-apatite-sphene)altered to albite/Kspar-quartz-amphibole-epidote-sericite-calcite.



MM07-10 48.3: AMPHIBOLE-PLAGIOCLASE PHYRIC HYPABYSSAL DACITE? PORPHYRY, ALTERED TO KSPAR/ ALBITE-AMPHIBOLE-CALCITE-MICA-EPIDOTE-SPHENE-PYRITE

Hand specimen shows a pinkish-grey, fine-grained, siliceous-looking, strongly fractured hypabyssal porphyry with abundant small plagioclase phenocrysts and minor needle-like mafics (amphibole?) in a Kspar-rich, almost aphanitic groundmass; hairline fractures contain pyrite and calcite. The rock is not magnetic, and shows only minor reaction to cold dilute HCl, but there is significant stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

|                                                     |      |
|-----------------------------------------------------|------|
| Plagioclase (albitized, sericite-carbonate altered) | 40%  |
| K-feldspar (partly secondary)                       | 20%  |
| Quartz (mainly primary?)                            | 20%  |
| Amphibole (tremolite/actinolite?)                   | 10%  |
| Carbonate (mainly calcite?)                         | 5%   |
| Mica (sericite, muscovite, secondary biotite)       | 2-3% |
| Epidote (zoisite/clinozoisite)                      | 1-2% |
| Sphene, rutile                                      | <1%  |
| Apatite                                             | <1%  |
| Pyrite, trace chalcopyrite                          | <1%  |

This sample is similar to the previous sample, composed of relict plagioclase and possibly amphibole phenocrysts in an almost aphanitic, quartzo-feldspathic groundmass. Alteration to albite, Kspar, secondary amphibole, carbonate, mica and epidote is related to narrow calcite-pyrite-zoisite veinlets.

Plagioclase phenocrysts have mainly euhedral outlines up to about up to about 2 mm in diameter that look to be almost completely replaced by secondary alkali feldspar with relief negative compared to adjacent groundmass quartz (therefore mostly albite, but in places, staining in the etched offcut indicates some Kspar as well). Accompanying this alteration is minor flecking by fine-grained sericite (subhedral flakes to 45 microns) and lesser carbonate (subhedra to 0.1 mm long).

Relict mafic phenocrysts have generally corroded, irregular, but subhedral lath-like outlines up to about 1 mm long, suggestive of former amphibole (?). They are pseudomorphed by fine-grained, fibrous, colourless to pale green amphibole with extinction angle about 15 degrees (tremolite-actinolite?) mostly <0.25 mm long, carbonate (likely mainly calcite) as ragged sub/anhedra mainly <0.15 mm, near veinlets by pale greenish brown secondary biotite (euhedral flakes <0.1mm in size), or locally by alkali feldspar (Kspar or albite?) as interlocking subhedra <0.1 mm in diameter (the feldspar contains relics of sphene and apatite as subhedra <20 microns and <0.1 mm respectively).

In the groundmass, very fine-grained quartz (sub/anhedra mostly <25 microns in diameter) and finer-grained, interstitial alkali feldspar with negative relief compared to the quartz (probably including both Kspar and lesser albite?) contains ragged needle-like aggregates of amphibole (probably after former amphibole crystals about 0.1 mm long), plus microphenocrysts of accessory apatite (euhedra to 0.5 mm long) and aggregates of sphene up to 0.35 mm in diameter (commonly containing traces of rutile; likely after former microphenocryst of ilmene-magnetite?).

In the veinlets, which are generally <0.25 mm thick, calcite forms elongated sub/euhedral crystals up to 1 mm long, pyrite occurs as minute sub/euhedra mainly <0.1 mm in diameter (with rare chalcopyrite <15 microns), and local epidote-group mineral with variable birefringence as described for the previous sample (zoisite and clinozoisite?) occurs as granular subhedra <65 microns in size; rare pale mica (colourless muscovite to pale green biotite) forms subhedral flakes <75 microns in size. Locally, minor rutile (ragged <50 micron aggregates of 10-20 micron euhedra) are associated with the veinlets.

In summary, as in the sample from 40.5m, this also likely represents a potassic (Kspar/albite-tremolitic amphibole-calcite-biotite/sericite-epidote-minor sphene/rutile-pyrite) altered, possibly originally amphibole-plagioclase phyric, dacite (?) hypabyssal porphyry.

MM07-10 117.9: PLAGIOCLASE-HORNBLLENDE DACITE? PORPHYRY, KSPAR-ALBITE-EPIDOTE-PYRITE-CALCITE-CHLORITE ALTERED NEAR EPIDOTE-QUARTZ VEINS

Hand specimen shows fine-grained, medium to dark greenish grey, feldspar-amphibole porphyry, cut by a well-defined 0.5 cm thick yellow-green vein with slightly bleached-looking envelopes. The rock is not magnetic, but shows minor reaction to cold dilute HCl (mainly along hairline fractures), and moderate stain for K-feldspar in the etched offcut, likely as an envelope around the vein; outside the Kspar envelope, significant pyrite is present in what may be a more mafic xenolith (?). Modal mineralogy in polished thin section is approximately:

|                                       |     |
|---------------------------------------|-----|
| Plagioclase (relict, altered)         | 25% |
| K-feldspar (secondary)                | 20% |
| Quartz (partly secondary)             | 20% |
| Amphibole (actinolitic hornblende?)   | 20% |
| Epidote (mainly vein)                 | 5%  |
| Pyrite                                | 3%  |
| Carbonate (hairline calcite veinlets) | 3%  |
| Chlorite                              | 1%  |
| Sphene, minor rutile                  | 1%  |
| Sphalerite                            | <1% |
| Apatite                               | <1% |
| Sericite                              | <1% |

This sample consists of about 30-35% altered feldspar and 15% amphibole phenocrysts set in a fine-grained but phaneritic quartzo-feldspathic groundmass; it is cut by thick epidote-quartz veins, with strongly developed K-spar rich envelopes, and thin (<0.2 mm) calcite veinlets.

Plagioclase forms mainly subhedral, corroded-looking crystals up to about 2.5 mm, generally albitized except in the broad (1-2 cm wide) envelope near the epidote-quartz vein where they are extensively replaced by secondary Kspar; most are also slightly replaced by very fine-grained (10-15 micron) carbonate and lesser sericite. Albite is indicated by twinning (extinction on 010 up to 16°, relief negative compared to quartz), in subhedral sub-domains up to 1 mm in diameter. Kspar occurs as small rounded to anhedral sub-domains mostly <0.1 mm in size but generally continuous or semi-continuous optically for up to about 1.5 mm or so, replacing up to 70% of the plagioclase crystal.

Amphibole crystals are mainly euhedral, up to about 3..5 mm long (where glomeratic), and vary from about 10% of the sample to about 25% in the more mafic xenolith (rounded irregular outline about 2 cm across). Amphibole shows pale to medium sea-green pleochroism and small (mainly <12 degree) extinction angle, suggestive of actinolitic hornblende, supported by a generally secondary (fibrous, fine-grained) habit of subhedral sub-domains within the phenocrysts, mainly <0.25 mm long, that probably replace primary hornblende. Minor sphene, locally cored by rutile, forms granular aggregates of subhedra <25 µm crystals in the amphibole, or locally it is replaced by chlorite (pale green, non-pleochroic, subhedral flakes to 0.45 mm with near-zero to faintly anomalous blue, length-slow birefringence, suggestive of F:M near 0.5), or epidote as granular subhedra <0.2 mm in size. Accessory apatite (euhedra <0.15 mm) is commonly closely associated with amphibole.

In the groundmass, fine-grained quartz forms interlocking subhedra mainly <25 microns in size, with interstitial alkali feldspar mostly of finer grain size. Although the groundmass feldspar is mostly plagioclase (albite?) away from the major veins, within the Kspar altered envelopes, much of it is also converted to Kspar to judge by the pale yellow stain in etched offcut. Accessory apatite and sphene (cored by rutile), forming eu/subhedra to 0.25 and 0.5 mm respectively, are scattered in the groundmass, probably representing microphenocryst. The epidote vein is composed of interlocking sub/euhedral crystals rarely up to 1.5 mm long, and lesser quartz as ragged subhedra to 0.5 mm. Pale yellow colour in the epidote implies a moderate Fe content. Pyrite (ragged subhedra to 0.5 mm) and minor sphalerite (red-brown: moderate Fe, <0.2 mm) are associated with thinner epidote veins.

In summary, this is plagioclase-hornblende dacite porphyry, accessory sphene/rutile-apatite, altered to Kspar-albite-epidote-pyrite-calcite-chlorite near epidote-quartz ±pyrite-sphalerite veins.

MM07-10 168.0: STRONGLY SKARN (KSPAR-GARNET-EPIDOTE-CLINOPYROXENE-CARBONATE+SPHENE, QUARTZ, TRACE CHALCOPYRITE) ALTERED DACITE (?) PORPHYRY

Hand specimen shows pale green, siliceous, likely skarny altered rock with a vein or patch of coarse-grained, reddish-buff or pink garnet (surrounded by a narrow grey-green zone). The rock is not magnetic, shows moderate reaction to cold dilute HCl (mainly along hairline fractures), and major stain for K-feldspar in the etched offcut (in the area outside the garnet and flanking rim zone).

Modal mineralogy in polished thin section is approximately:

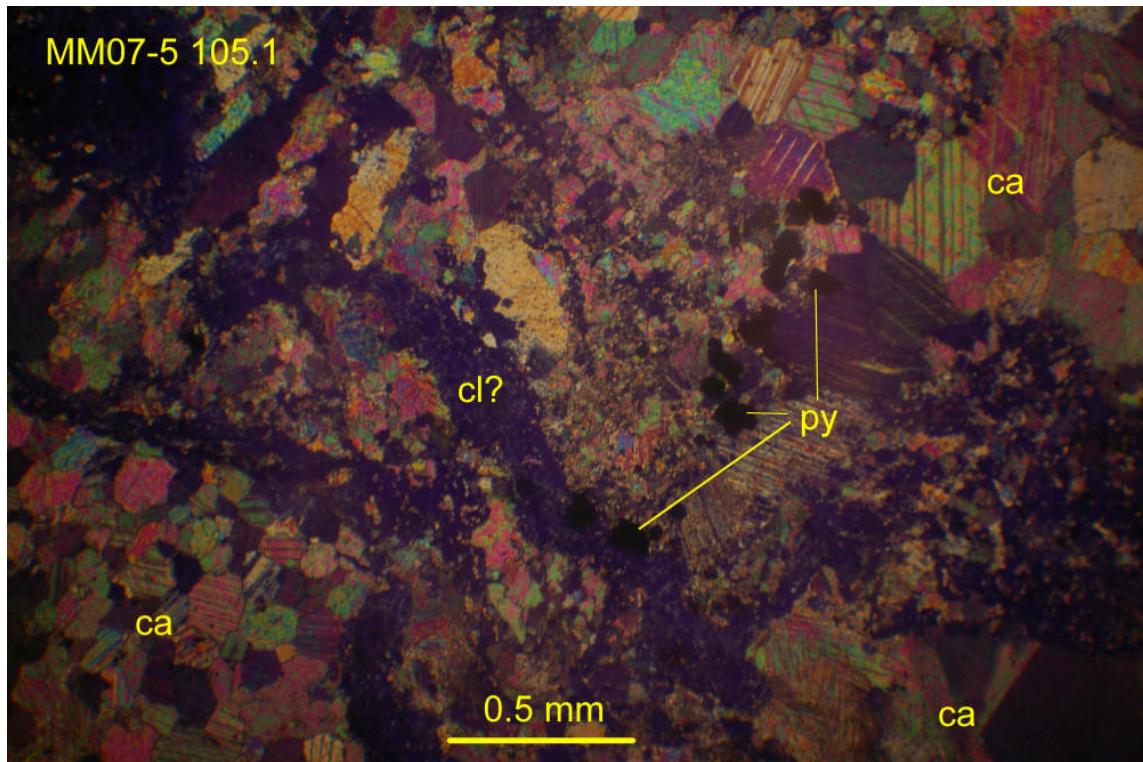
|                                              |      |
|----------------------------------------------|------|
| K-feldspar, minor albite (mainly secondary?) | 55%  |
| Garnet                                       | 20%  |
| Epidote (Fe-rich)                            | 10%  |
| Clinopyroxene (hedenbergitic?)               | 5-7% |
| Carbonate (mainly calcite?)                  | 5-7% |
| Sphene, minor rutile                         | 1%   |
| Quartz (secondary?)                          | 1%   |
| Chalcopyrite, pyrite                         | <1%  |
| Apatite                                      | <1%  |

This appears to be a very strongly skarny (Kspar-garnet-epidote-relict clinopyroxene) altered rock, possibly derived from a dacite porphyry similar to samples from 40.5, 48.3, and 117.9 m above this point in the hole. Judging by lack of relief difference in the felsic portions, quartz is rare.

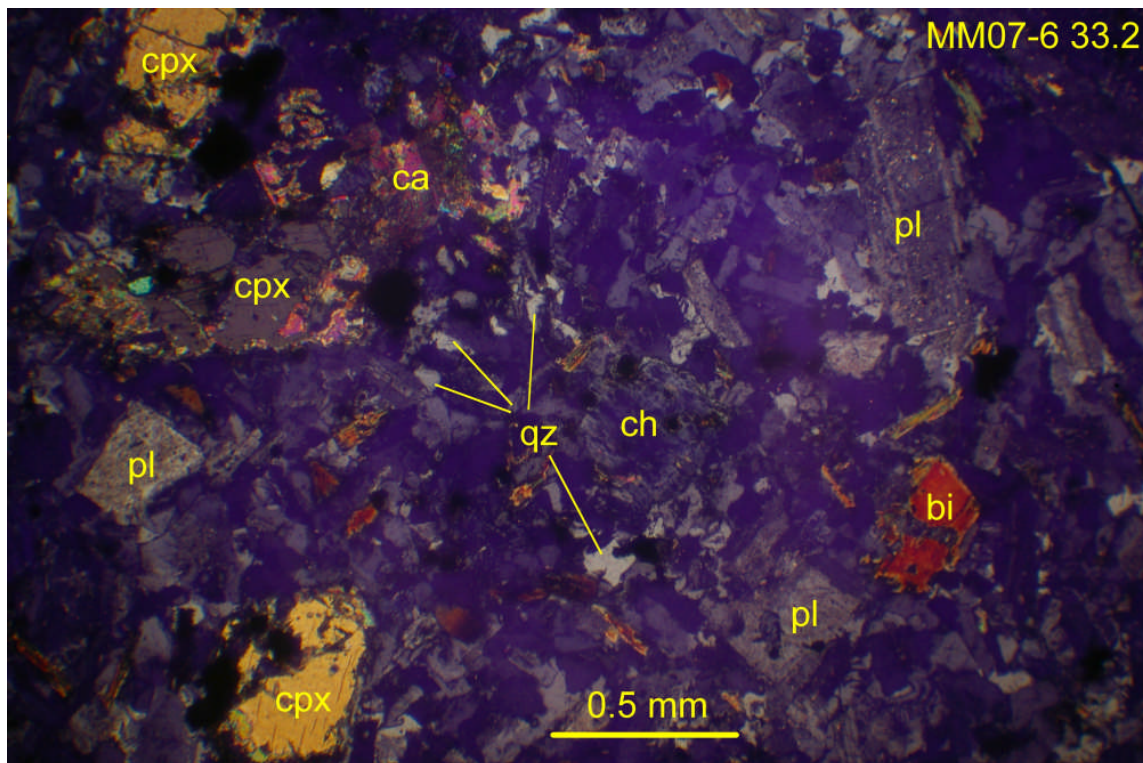
Most of the rock has been replaced by secondary Kspar, either pseudomorphing the feldspar (initially plagioclase?) phenocrysts, or apparently replacing the groundmass. In the phenocrysts, which have sub- to euhedral outlines up to 2 mm long, sub-domains with interlocking highly irregular shapes mostly <0.25 mm long are semi-continuous optically over the entire relict crystal, locally containing included relics of albite (slightly positive relief) up to 0.15 mm in size. In the groundmass, which retains its finely crystalline (25-30 micron) texture, replacement of alkali feldspar and (presumably) quartz seems to be almost complete (no relief differences reliably seen). Rarely, minor quartz as subhedra to 0.1 mm (with distinct positive relief) appears to be included in feldspar relics or to a lesser extent in the groundmass.

Former mafic crystals (somewhat reminiscent of the amphibole phenocrysts in the previous sample, from 117.9m) have highly irregular, ragged outlines up to about 3 mm across, almost completely replaced by epidote (ragged subhedra to almost 1 mm size, commonly with intense yellow-green pleochroism indicating very high Fe content), rimmed by clinopyroxene (almost colourless, granular subhedra mostly <0.2 mm long), both locally cored by garnet (similar to that described below, i.e. dark red-brown, completely isotropic, forming irregular, skeletal subhedra up to 2 mm across (paler coloured zones at the rims). Both epidote and garnet are cut and partly replaced by carbonate, likely mostly calcite as ragged subhedra (or locally euhedra) up to 2 mm across, also found along narrow veinlets (<0.2 mm thick) and in irregular patches. Scattered sphene aggregates with rounded subhedral outlines to 0.6 mm (containing minute rutile mostly <20 microns in size) likely represent former ilmeno-magnetite crystals; minor apatite forms sub/euhedra to 0.15 mm.

In the major, massive garnet patch, garnet is completely isotropic, obscuring crystal size except where demarcated by distinct colour variations from bright yellow to a reddish-brown colour, suggesting sub/euhedra up to about 3 mm across. No zoning is apparent; the crystals are altered and/or intergrown with carbonate (likely mostly calcite) as irregular sub/anhedra to 0.75 mm. Fine-grained, strongly fractured, granular clinopyroxene (subhedra rarely up to 0.5 mm long) with pale green colour forms an irregular, 1-2 mm thick rim around the garnet. The pyroxene is brownish where incipiently altered by carbonate along cleavages, rims and microfractures. Traces of chalcopyrite (subhedra <0.2 mm in size) are included in garnet (associated with calcite), or pyrite (subhedra <20 microns in size) occur in fractures in epidote. In summary, this is a strongly skarn (Kspar-garnet-epidote-clinopyroxene-carbonate-minor sphene-quartz?-trace chalcopyrite) altered rock likely derived from plagioclase-amphibole phyrlic, dacite (?) porphyry.

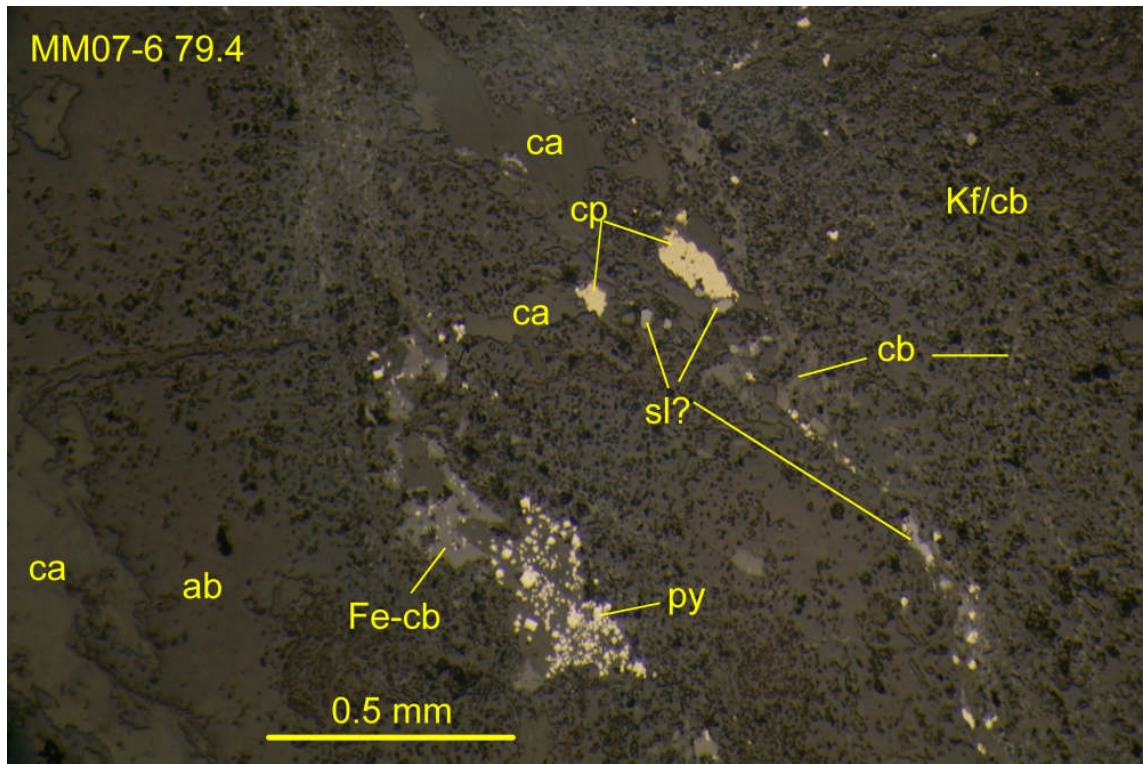


MM07-5 105.1: Breccia of carbonate rock (ca) ranging from fine-grained and even-textured to coarser-grained and more variable, cut by veinlet/matrix of carbonate, possible clay (?) mineral (dark, very fine-grained), minor pyrite (opaque, py) and trace rutile (difficult to see at this scale). Transmitted light, crossed polars, field of view 3 mm wide.

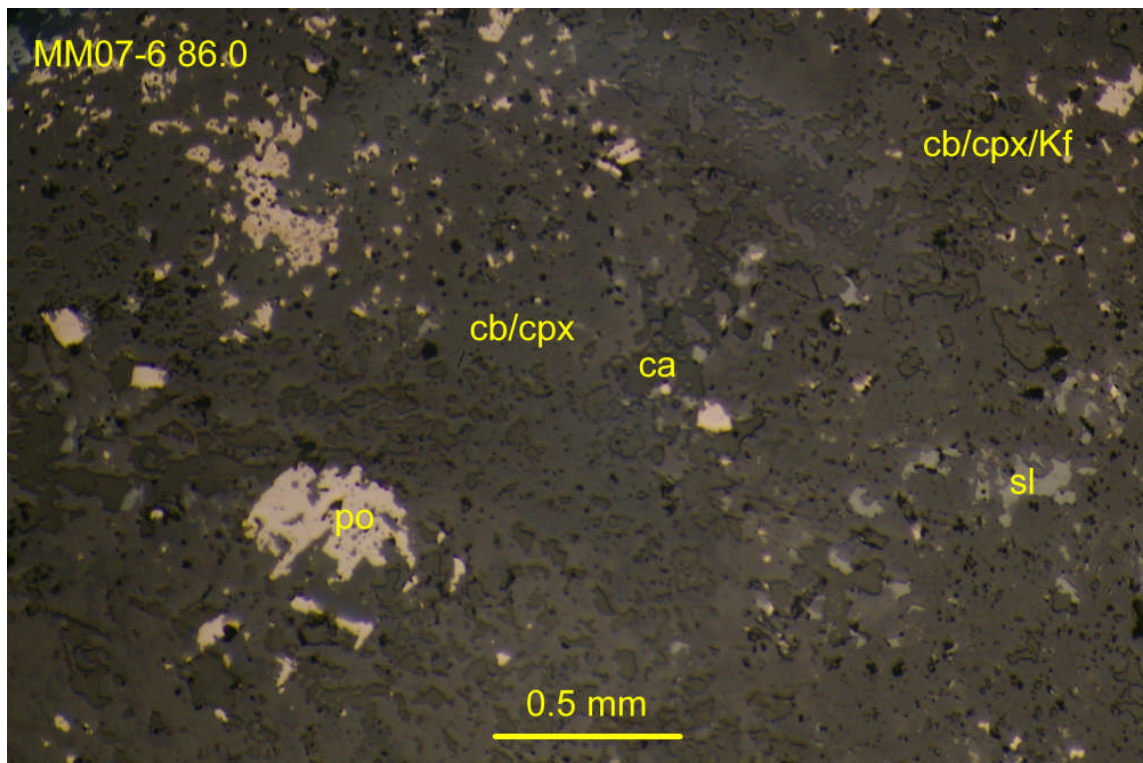


MM07-6 33.2: High-level porphyry composed of phenocrysts of plagioclase (pl), clinopyroxene (cpx) partly altered to chlorite (ch) or calcite (ca), and biotite (bi), plus accessory opaque oxides (mainly magnetite), in groundmass of Kspar and minor quartz (qz). Transmitted light, crossed polars, field of view 3 mm wide.



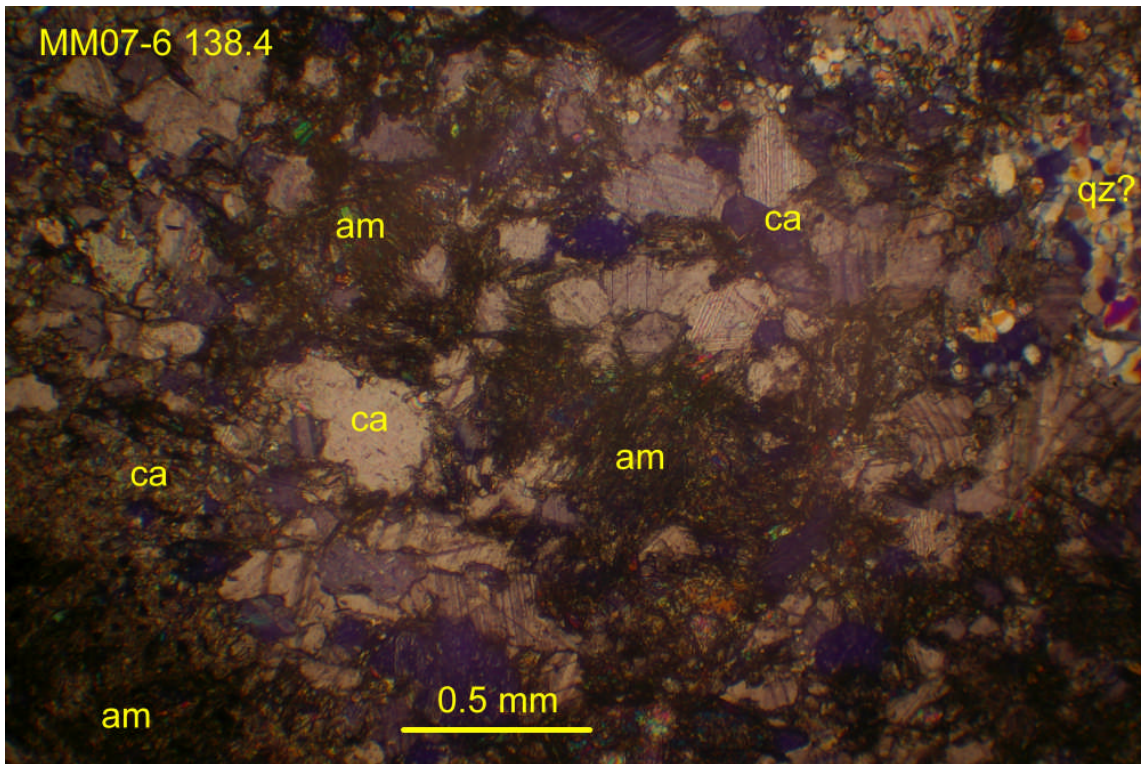


MM07-6 79.4: Sulfides, including cubic pyrite (py), subhedral chalcopyrite (cp) and possible sphalerite (sl), associated with Fe-carbonate (cb, with higher reflectivity than calcite, ca) along the borders of calcite-albite (ab) veins oblique to faintly layered, fine-grained Kspar (Kf)-carbonate altered wallrock. Reflected light, uncrossed polars, 2.25 mm wide.

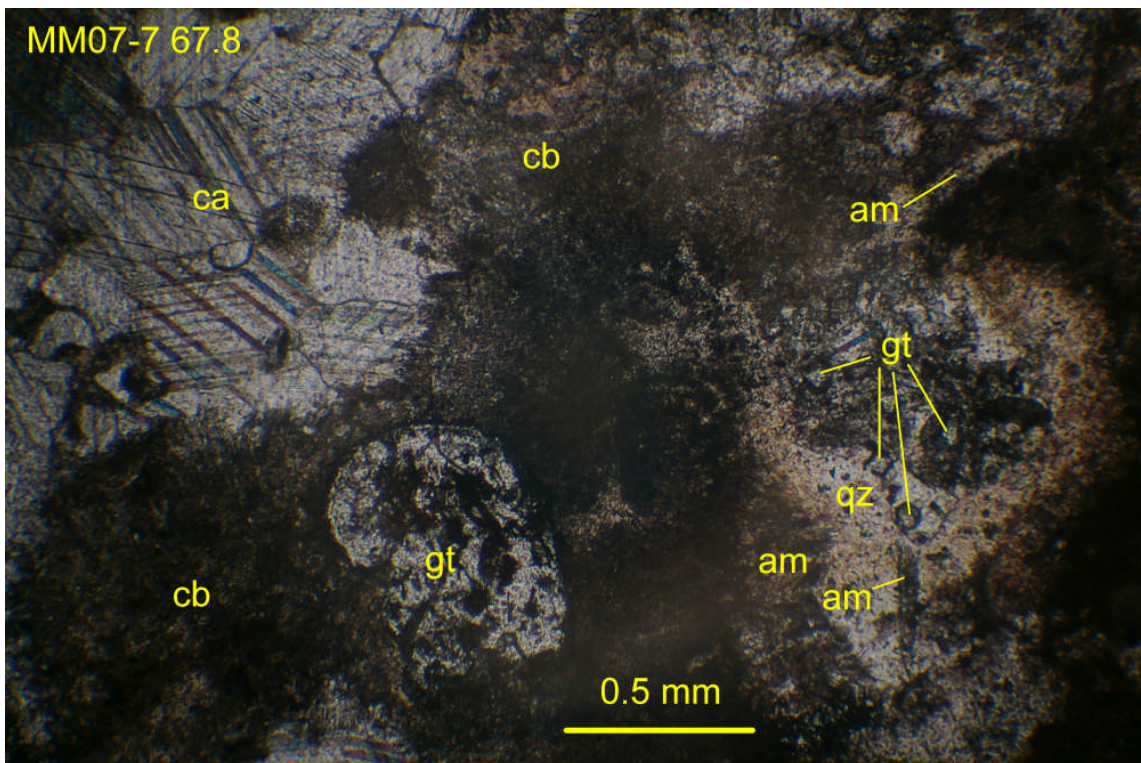


MM07-6 86.0: Aggregates of pyrrhotite (po) and sphalerite (sl) associated with carbonate (ca) veining cutting calc-silicate rock composed of fine-grained clinopyroxene (cpx), Kspar (Kf) and carbonate (cb) plus disseminated pyrrhotite. Reflected light, uncrossed polars, field of view 2.25 mm wide.



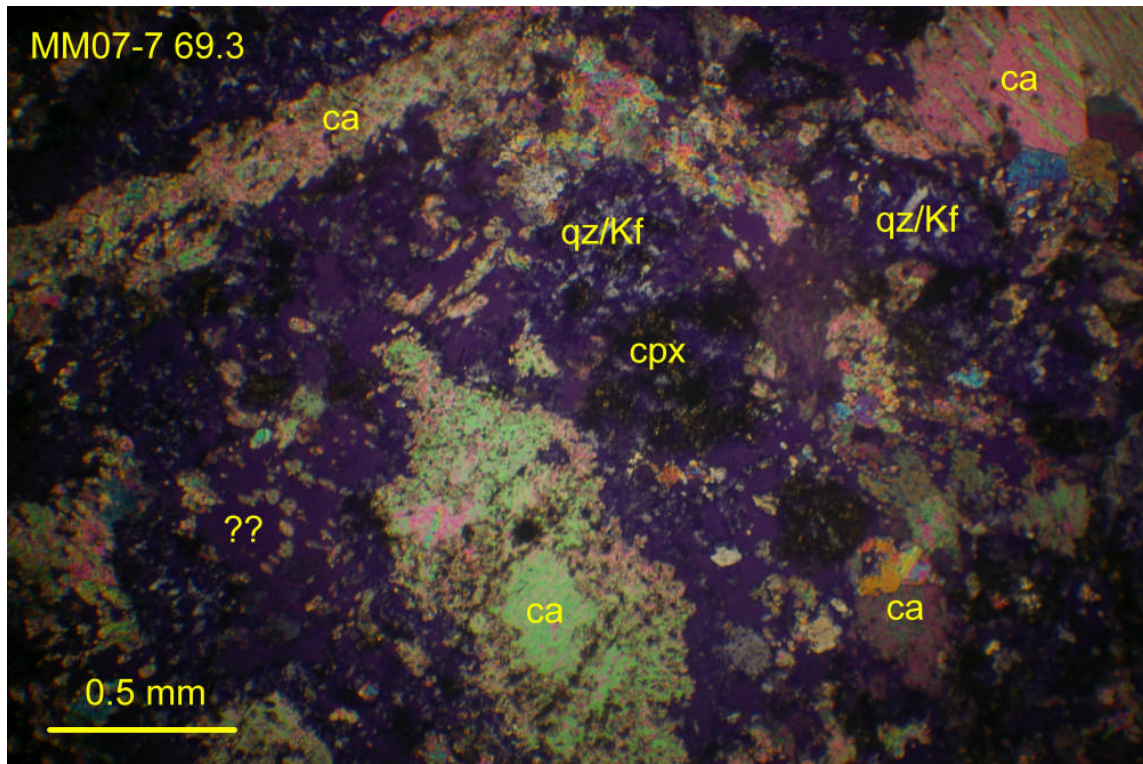


MM07-6 138.4: Area of recrystallized limestone clast or matrix, composed of coarse-grained carbonate (ca), ragged fibrous amphibole (am) and granular quartz? (qz?) with unusually high birefringence due to thick section, cut by a matrix veinlet of darker-coloured amphibole (on left). Transmitted light, crossed polars, field of view 3 mm wide.

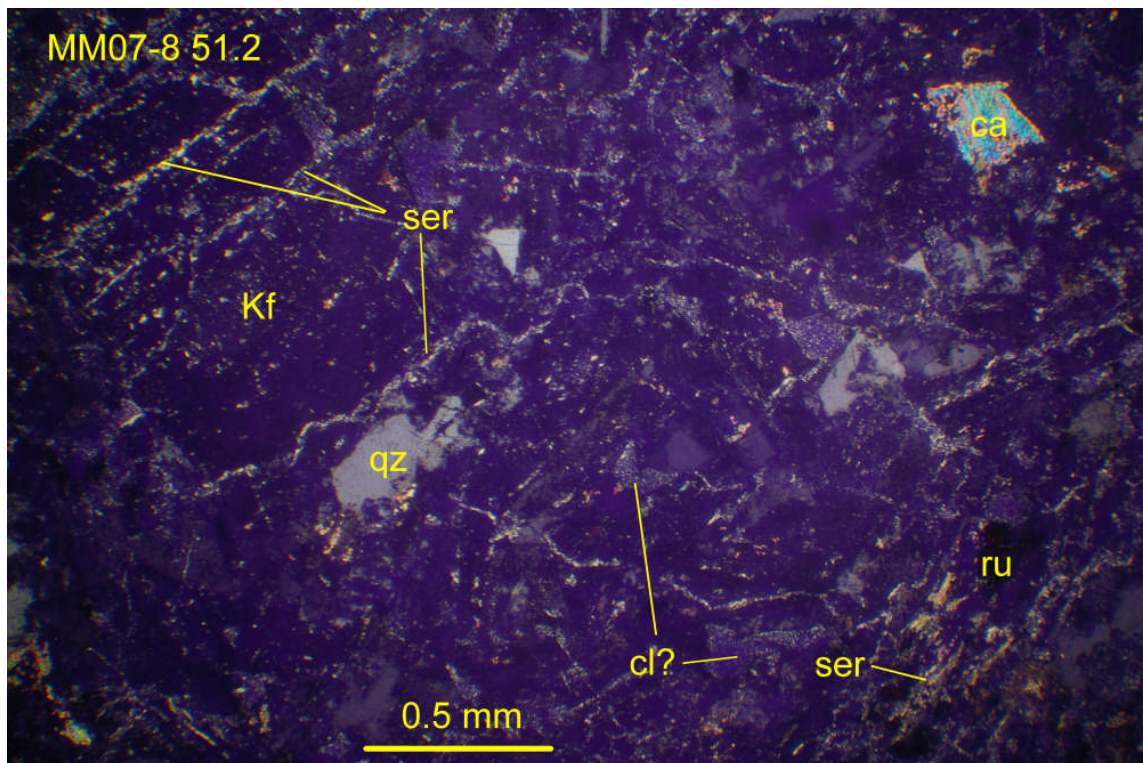


MM07-7 67.8: Metasomatized limestone (?) composed of porphyroblastic aggregates of brown (Fe<sup>2+</sup>-bearing) carbonate (cb) succeeded inward by relict amphibole (am) visible as radiating acicular crystals projecting into the central aggregates of quartz (qz) and small euhedral garnet, or large garnet (gt), in matrix of coarse clear calcite (ca). Transmitted plane light, field of view 3 mm wide.



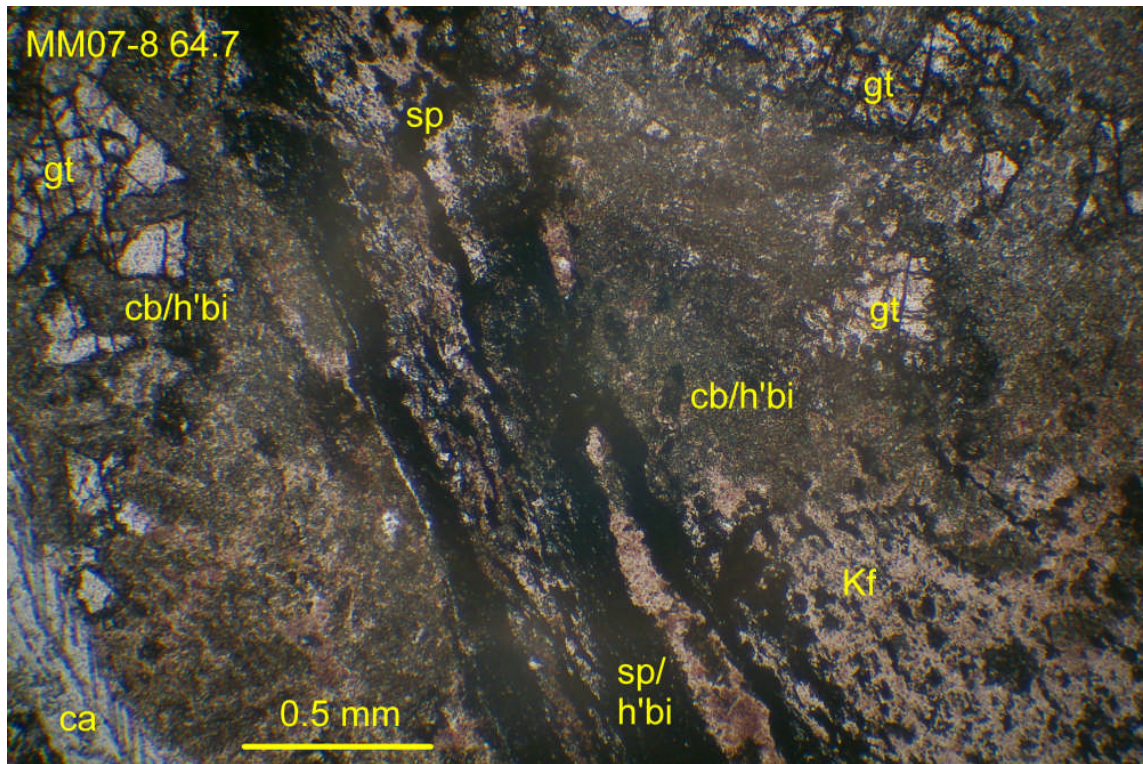


MM07-7 69.3: Clasts of fine-grained quartz-Kspars-variety clinopyroxene (qz/Kf/cpx) in matrix, locally vein-like, of coarse-grained carbonate (ca) and local isotropic phase (??) that could be quartz or halloysite (?), or possibly merely epoxy (?). Transmitted light, crossed polars, field of view 3 mm wide.

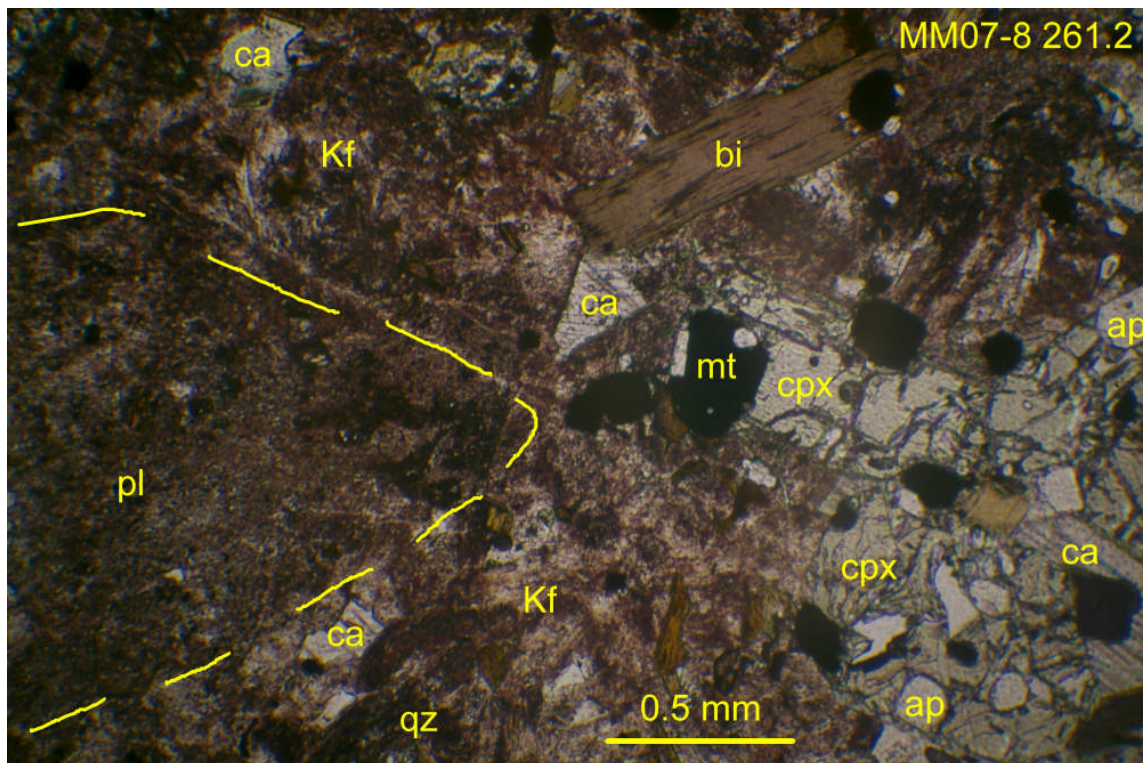


MM07-8-51.2: Intensely potassic altered, possibly originally hypabyssal intrusive rock now composed mainly of Kspars (Kf) in areas with larger, ghost-like outlines (on left) or lath-like crystals separated by interstitial quartz (qz), possible mafic relics replaced by carbonate (ca), clay?/sericite and rutile (ru), and heavily fractured/microfractured by clay (?) with low birefringence, and sericite with moderate birefringence. Transmitted light, crossed polars, field of view 3 mm wide.



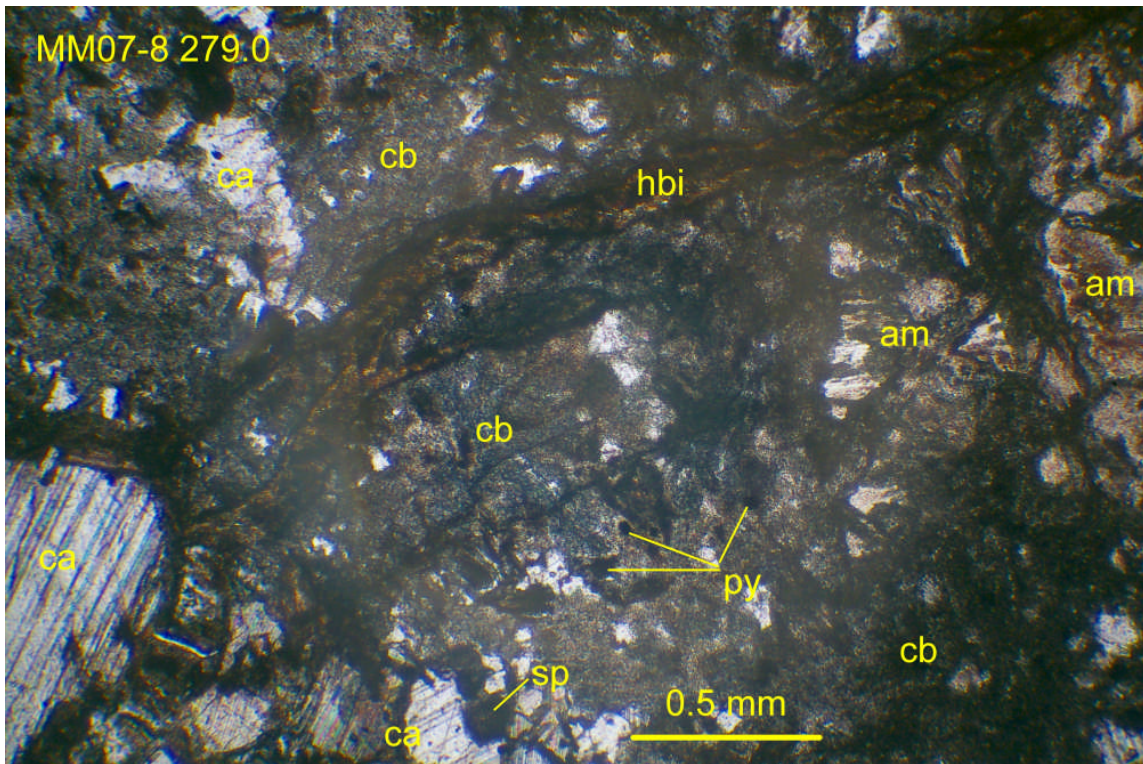


MM07-8 64.7: Remnants of massive garnet (gt) as islands in fine-grained brownish carbonate-“hydrobiotite” replacement at contact with fine-grained Kspar-rich rock; this retrograde alteration is associated with veinlets containing hydrobiotite and sphene (sp) that are re-opened by later clear calcite (ca) veinlets. Transmitted plane light, field of view 3 mm wide.

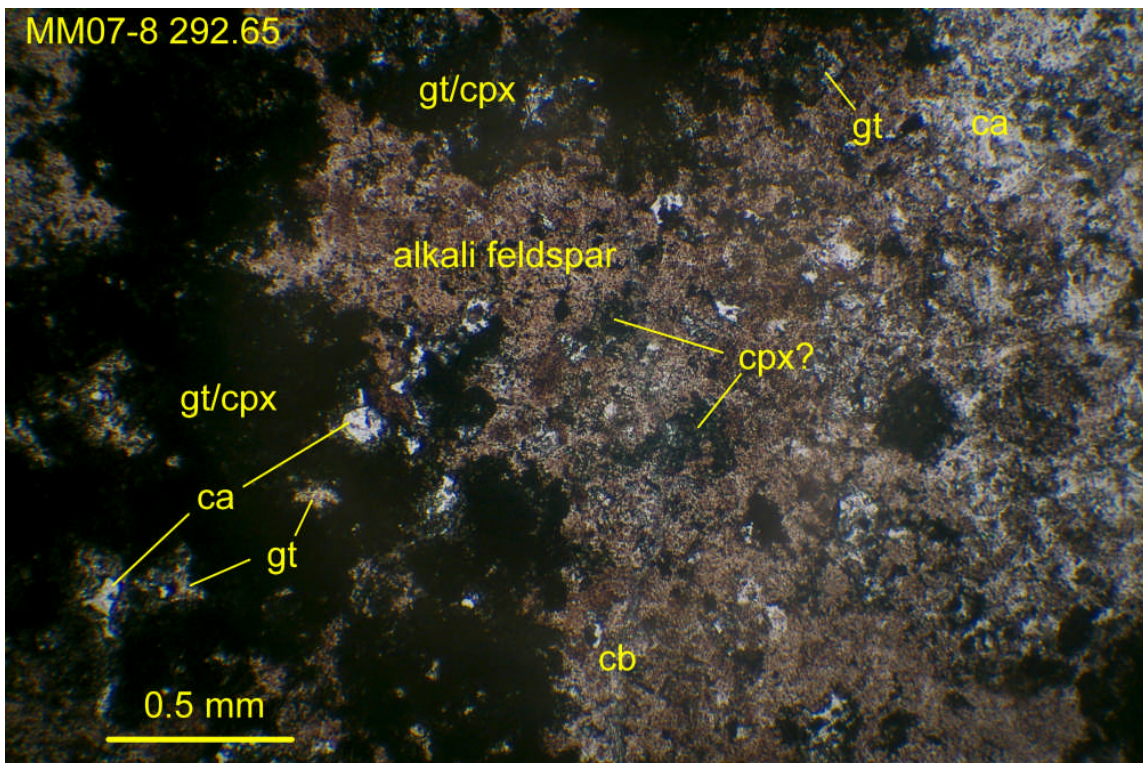


MM07-8 261.2: Latite porphyry composed of ragged relict plagioclase (pl) crystals altered to clay/sericite, prehnite, and clinzoisite (making them brownish), clinopyroxene (cpx) and biotite (bi), associated with apatite (ap) and magnetite (mt), in matrix of euhedral Kspar (Kf) laths, interstitial calcite (ca) and trace quartz (qz). Transmitted plane light, 3 mm wide.



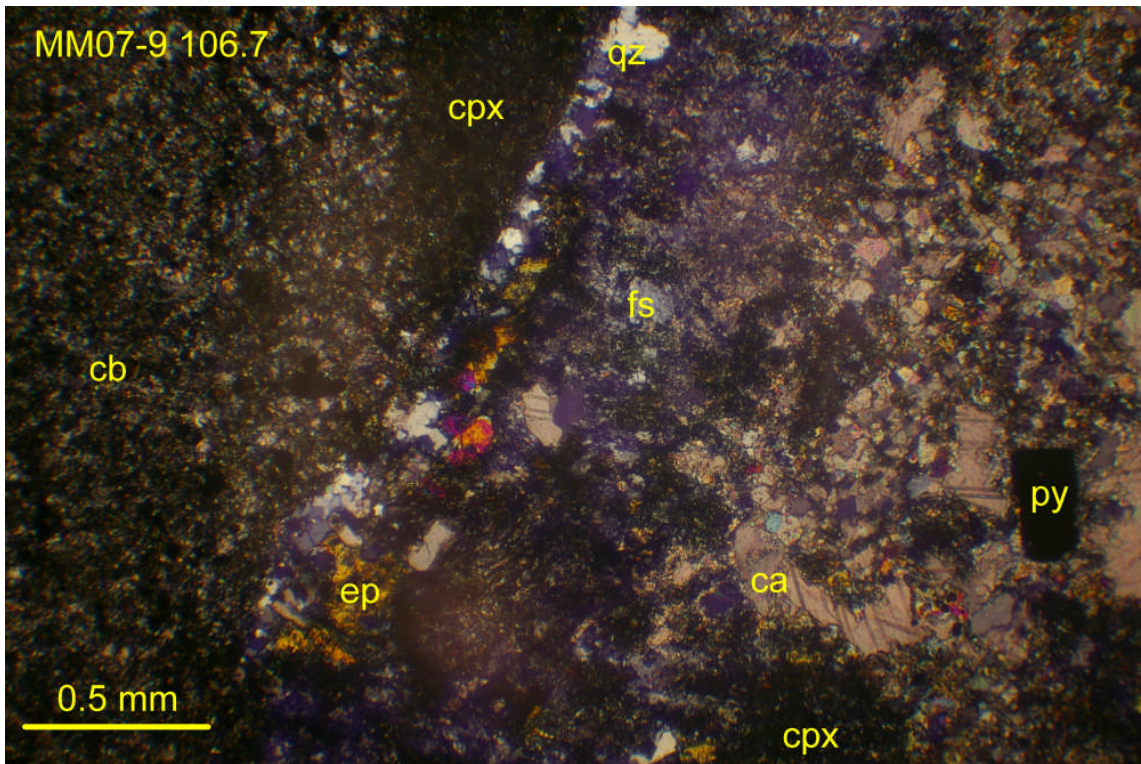


MM07-8 279.0: Margin of area of former clinopyroxene or garnet (?) retrograded to brownish, fine-grained carbonate (cb), amphibole (am) and traces of sphene (sp) and pyrite (py) near contact with coarse, clear calcite (ca); both are cut by late veinlet of brownish green “hydrobiotite” (hbi). Transmitted plane light, field of view 3 mm wide.

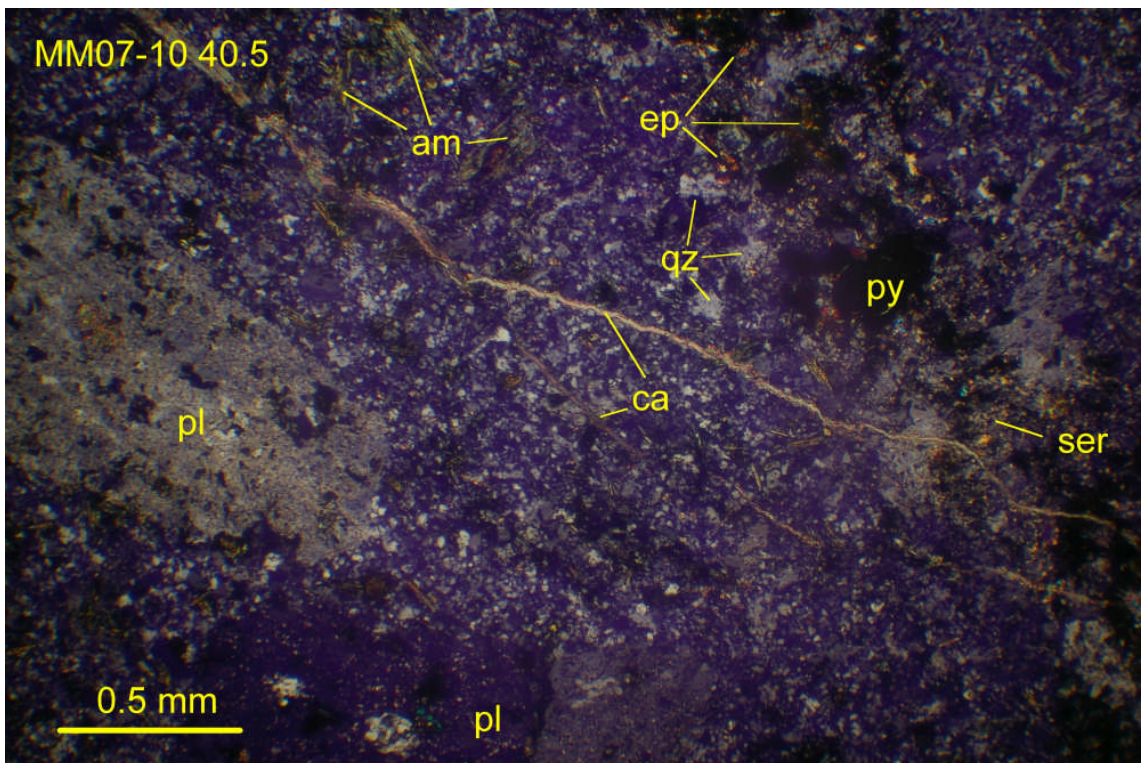


MM07-8 292.65: Clotted aggregates of garnet and relict clinopyroxene (dark, largely retrograded to carbonate and possibly amphibole/“hydrobiotite”, with interstitial clear feldspar and calcite, in matrix of cloudy alkali feldspar, overprinted by carbonate that varies from brownish (cb) to clear calcite (ca). Transmitted plane light, field of view 3 mm wide.



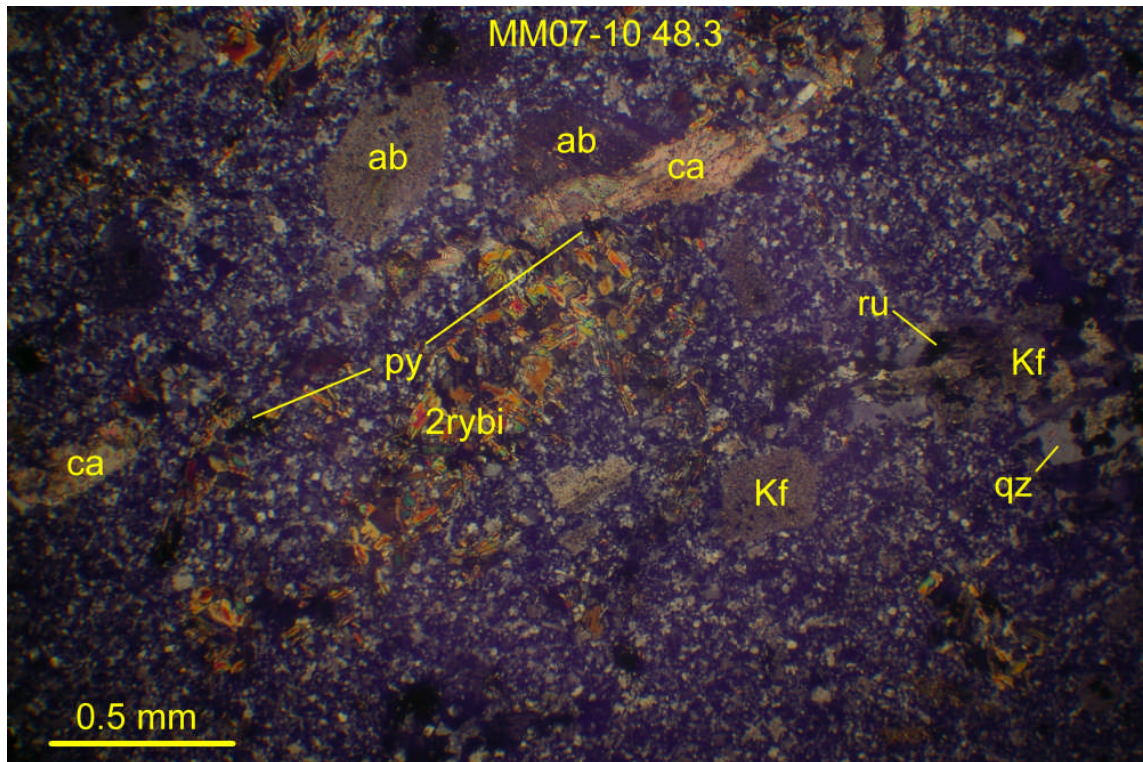


MM07-9 106.7: Layered carbonate rock, with accessory pyrrhotite (opaque) in contact with skarny altered rock composed of very fine-grained, granular clinopyroxene (dark), also with pyrrhotite, offset by vein of calcite (ca), feldspar (fs), quartz (qz), and epidote (ep); scattered pyrite (py) may be accidentally included. Transmitted light, crossed polars, 3 mm wide.

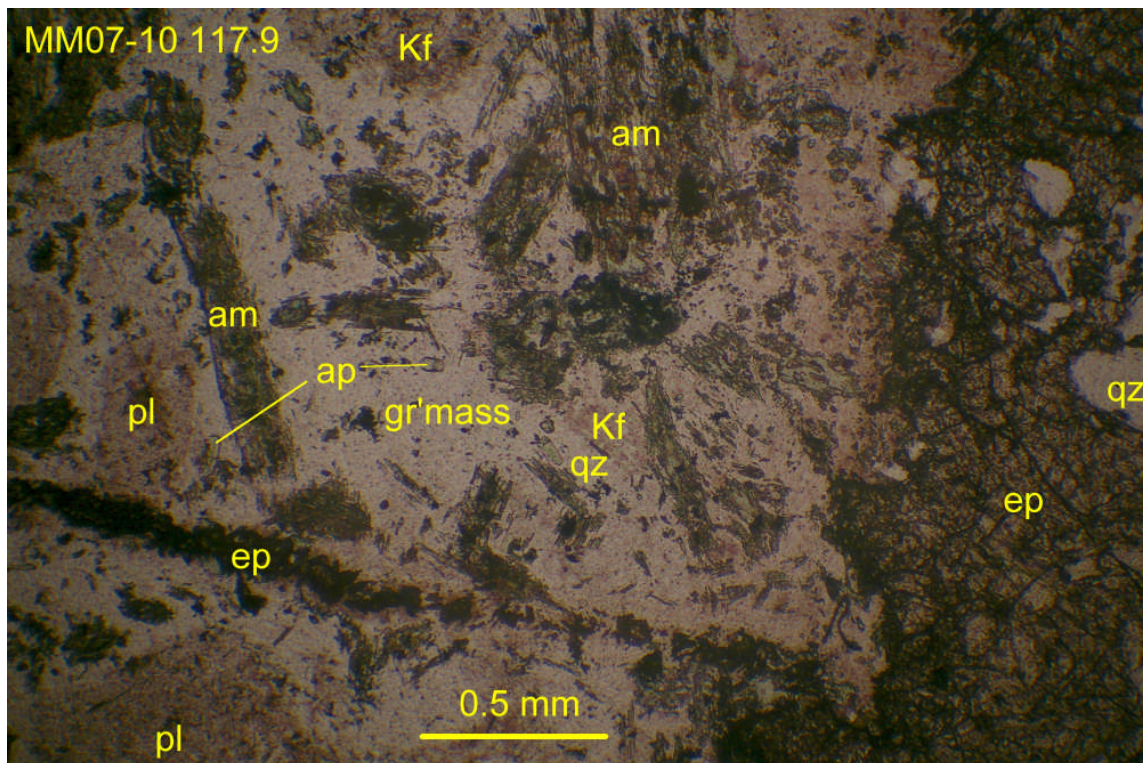


MM07-10 40.5: Relict plagioclase (pl) replaced by albite-Kspar, recrystallized amphibole (am) phyrlic dacite (?) porphyry altered near veinlets of quartz (qz)-epidote (ep)-sericite-pyrite (opaque), and later calcite (ca); groundmass is finely crystalline quartz-alkali feldspar. Transmitted light, crossed polars, field of view 3 mm wide.



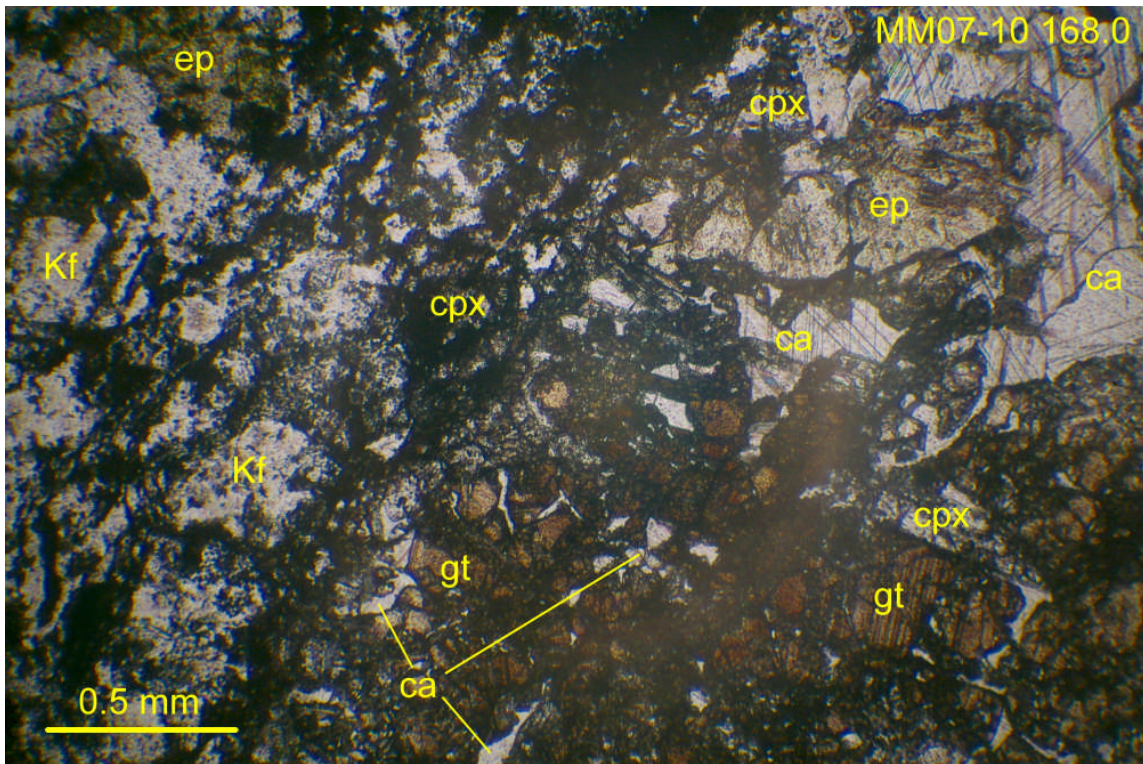


MM07-10 48.3: Hypabyssal feldspar-amphibole pyritic porphyry in which plagioclase (pl) crystals are replaced by twinned albite (ab) and irregular Kspar (Kf), amphibole is replaced by secondary biotite (2ry bi), carbonate and rutile (ru) near veinlets of calcite (ca), minor pyrite (py). Transmitted light, crossed polars, field of view 3 mm wide.



MM07-10 117.9: Narrow offshoot veinlet (elsewhere with associated pyrite-sphalerite) from major epidote (ep)-quartz (qz) vein, cutting plagioclase (pl)-amphibole (am) dacite porphyry in which feldspar is mostly replaced by secondary Kspar (Kf) ± quartz, and amphibole by fibrous actinolite, in the envelope to the vein. Transmitted plane light, 3 mm wide.



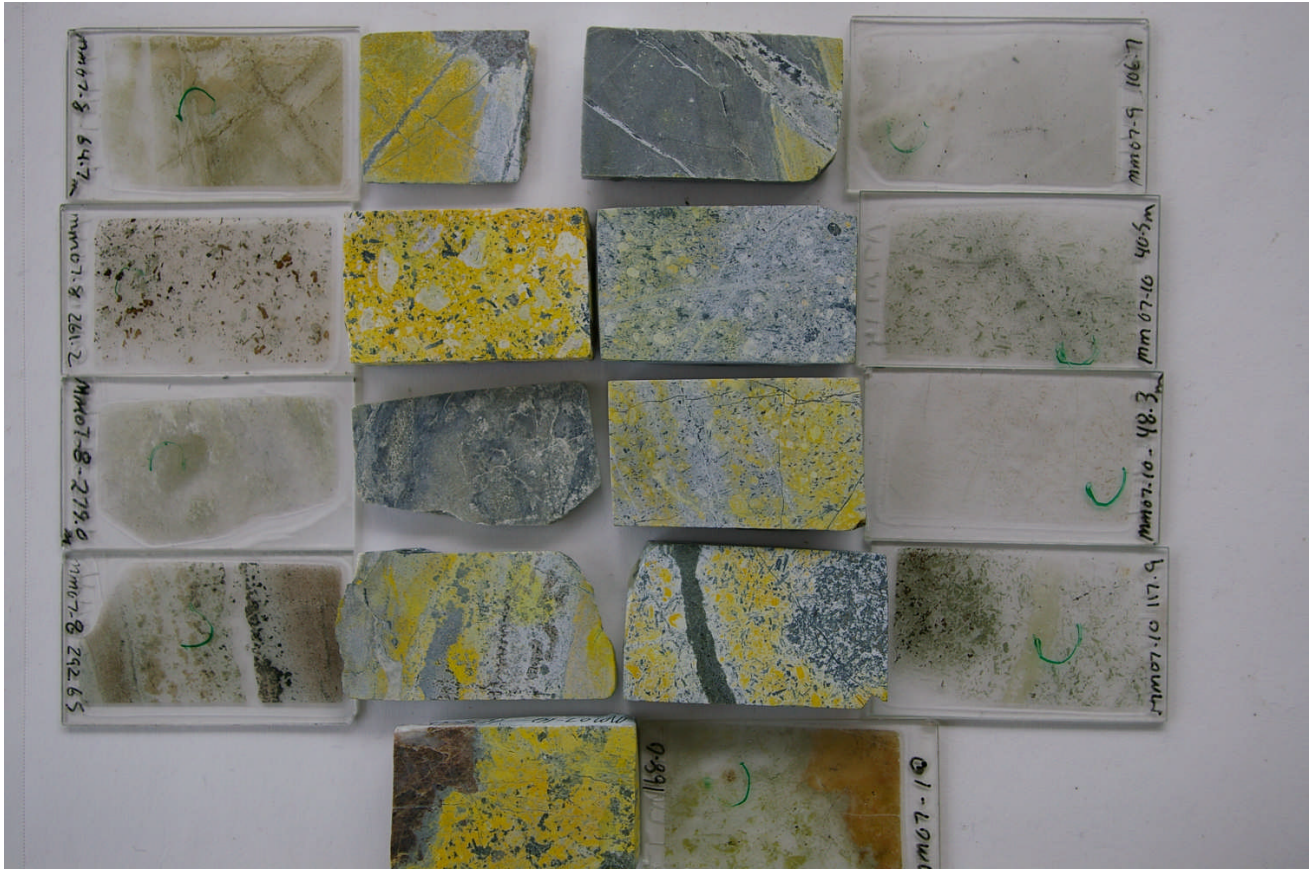


MM07-10 168.0: Strongly skarn altered dacite porphyry (?) composed of Kspar (Kf) after plagioclase and groundmass, reddish garnet (gt), yellow epidote (ep) and colourless, granular clinopyroxene (cpx) after amphibole, cut by calcite (ca) veinlets/patches. Transmitted plane light, field of view 3 mm wide.

Overviews of thin sections and offcuts (green semi-circles mark photomicrograph locations).







APPENDIX 5a

Analytical Results – Soil Samples



ACME ANALYTICAL LABORATORIES LTD.  
 852 E. Hastings St. Vancouver BC V6A 1R6 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716

[www.acmelab.com](http://www.acmelab.com)

**Client:** Kettle River Resources Ltd.

Box 130  
 Greenwood B.C. V0H 1J0 Canada

Submitted By: Ellen Clements  
 Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.  
 Received: October 15, 2007  
 Report Date: January 15, 2008  
 Page: 1 of 11

## CERTIFICATE OF ANALYSIS

VAN07002982.1

### CLIENT JOB INFORMATION

Project: 41  
 Shipment ID:  
 P.O. Number 2007-11  
 Number of Samples: 282

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
 DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

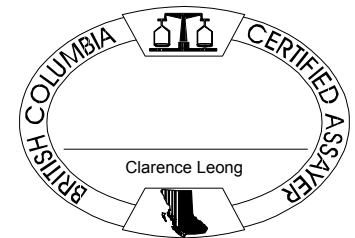
Invoice To: Kettle River Resources Ltd.  
 Box 130  
 Greenwood B.C. V0H 1J0  
 Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code  | Number of Samples | Code Description                           | Test Wgt (g) | Report Status |
|--------------|-------------------|--------------------------------------------|--------------|---------------|
| Split Reject | 282               | Reject sample split/packet                 |              |               |
| SS80         | 282               | Dry at 60C sieve 100g to -80 mesh          |              |               |
| Dry at 60C   | 282               | Dry at 60C                                 |              |               |
| 1DX          | 282               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.



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Box 130  
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Project: 41

Report Date: January 15, 2008

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4500N 7150E   | Soil  | 0.5   | 18.7  | 7.2   | 36    | <0.1  | 16.3  | 5.5   | 370   | 1.61  | 18.0  | 0.4   | 2.2   | 2.6   | 40    | <0.1  | 0.2   | 0.2   | 27    | 0.26  | 0.152 |
| L4500N 7162.5E | Soil  | 0.4   | 23.1  | 7.9   | 45    | 0.2   | 18.4  | 6.5   | 337   | 1.71  | 13.6  | 0.6   | 1.0   | 2.5   | 44    | <0.1  | 0.2   | 0.2   | 28    | 0.27  | 0.140 |
| L4500N 7175E   | Soil  | 0.4   | 17.3  | 7.6   | 35    | 0.2   | 16.4  | 5.3   | 286   | 1.61  | 17.8  | 0.3   | 1.1   | 2.4   | 32    | <0.1  | 0.3   | 0.2   | 27    | 0.20  | 0.176 |
| L4500N 7187.5E | Soil  | 0.4   | 19.5  | 8.3   | 47    | 0.1   | 22.6  | 7.8   | 362   | 1.82  | 15.0  | 0.6   | 1.5   | 2.4   | 44    | <0.1  | 0.2   | 0.2   | 31    | 0.26  | 0.230 |
| L4500N 7200E   | Soil  | 0.6   | 13.1  | 9.4   | 31    | <0.1  | 13.9  | 5.0   | 322   | 1.43  | 21.0  | 0.5   | 1.8   | 1.9   | 39    | <0.1  | 0.2   | 0.2   | 24    | 0.22  | 0.066 |
| L4500N 7212.5E | Soil  | 0.5   | 20.9  | 9.5   | 40    | 0.1   | 15.8  | 5.5   | 417   | 1.49  | 9.6   | 0.9   | 1.1   | 2.4   | 41    | 0.1   | 0.2   | 0.2   | 25    | 0.20  | 0.102 |
| L4500N 7225E   | Soil  | 0.7   | 22.0  | 10.8  | 76    | 0.1   | 19.5  | 7.7   | 586   | 1.95  | 13.2  | 0.9   | 1.5   | 3.3   | 29    | 0.1   | 0.2   | 0.2   | 40    | 0.15  | 0.203 |
| L4500N 7237.5E | Soil  | 0.5   | 21.2  | 16.4  | 70    | 0.2   | 11.8  | 6.2   | 727   | 1.78  | 16.0  | 0.7   | 1.7   | 2.8   | 67    | 0.3   | 0.3   | 0.3   | 34    | 0.35  | 0.303 |
| L4500N 7250E   | Soil  | 0.3   | 9.9   | 7.6   | 25    | 0.1   | 2.7   | 2.4   | 198   | 0.85  | 7.9   | 0.1   | <0.5  | 0.5   | 10    | 0.1   | 0.2   | 0.2   | 21    | 0.06  | 0.062 |
| L4500N 7262.5E | Soil  | 0.5   | 17.4  | 8.9   | 48    | <0.1  | 17.5  | 6.4   | 381   | 1.75  | 9.5   | 0.4   | 0.6   | 2.6   | 27    | 0.1   | 0.2   | 0.2   | 37    | 0.21  | 0.085 |
| L4500N 7275E   | Soil  | 0.4   | 19.3  | 8.8   | 51    | <0.1  | 20.5  | 6.7   | 339   | 1.86  | 11.4  | 0.4   | 1.4   | 3.1   | 28    | <0.1  | 0.2   | 0.2   | 41    | 0.26  | 0.102 |
| L4500N 7287.5E | Soil  | 0.6   | 25.2  | 10.7  | 47    | 0.1   | 15.1  | 7.1   | 448   | 1.80  | 10.3  | 1.0   | 6.6   | 3.8   | 39    | <0.1  | 0.3   | 0.2   | 39    | 0.28  | 0.097 |
| L4500N 7300E   | Soil  | 0.5   | 20.1  | 13.1  | 66    | 0.1   | 17.0  | 6.7   | 559   | 2.02  | 11.5  | 0.9   | 2.6   | 4.1   | 41    | 0.2   | 0.2   | 0.2   | 41    | 0.29  | 0.247 |
| L4500N 7312.5E | Soil  | 0.9   | 15.0  | 14.4  | 80    | 0.1   | 15.4  | 7.2   | 662   | 2.17  | 12.6  | 0.6   | 1.5   | 2.9   | 30    | <0.1  | 0.3   | 0.3   | 44    | 0.23  | 0.265 |
| L4500N 7325E   | Soil  | 0.6   | 17.3  | 22.4  | 95    | 0.1   | 12.2  | 5.7   | 772   | 1.87  | 12.7  | 0.5   | 0.8   | 2.1   | 34    | 0.2   | 0.3   | 0.3   | 36    | 0.24  | 0.180 |
| L4500N 7337.5E | Soil  | 0.7   | 21.0  | 11.3  | 44    | <0.1  | 15.3  | 6.4   | 618   | 1.81  | 11.4  | 0.7   | 1.4   | 3.7   | 39    | 0.1   | 0.2   | 0.2   | 37    | 0.30  | 0.130 |
| L4500N 7350E   | Soil  | 0.7   | 16.9  | 10.1  | 36    | 0.1   | 11.4  | 5.7   | 692   | 1.57  | 10.5  | 0.5   | 1.2   | 2.5   | 31    | <0.1  | 0.3   | 0.2   | 32    | 0.24  | 0.073 |
| L4500N 7362.5E | Soil  | 0.5   | 16.7  | 9.5   | 40    | <0.1  | 12.1  | 4.9   | 598   | 1.59  | 7.8   | 0.5   | 1.9   | 2.8   | 22    | <0.1  | 0.2   | 0.2   | 35    | 0.18  | 0.102 |
| L4500N 7375E   | Soil  | 0.5   | 16.0  | 10.8  | 101   | <0.1  | 12.2  | 5.4   | 1047  | 1.66  | 8.5   | 0.5   | 1.1   | 3.0   | 35    | 0.2   | 0.2   | 0.2   | 34    | 0.29  | 0.209 |
| L4500N 7400E   | Soil  | 0.8   | 18.9  | 13.6  | 67    | 0.1   | 15.3  | 6.4   | 620   | 1.95  | 10.5  | 0.7   | 1.6   | 3.5   | 23    | 0.2   | 0.3   | 0.2   | 40    | 0.20  | 0.155 |
| L4500N 7412.5E | Soil  | 0.4   | 16.3  | 9.9   | 47    | 0.1   | 10.4  | 4.2   | 437   | 1.47  | 8.9   | 0.5   | 1.2   | 2.3   | 32    | 0.1   | 0.3   | 0.1   | 31    | 0.28  | 0.154 |
| L4500N 7425E   | Soil  | 0.3   | 9.8   | 7.3   | 76    | <0.1  | 6.7   | 3.9   | 468   | 1.24  | 4.7   | 0.3   | 1.2   | 1.9   | 27    | <0.1  | 0.1   | 0.2   | 25    | 0.19  | 0.150 |
| L4500N 7437.5E | Soil  | 0.6   | 21.3  | 24.3  | 81    | <0.1  | 17.0  | 6.3   | 403   | 2.27  | 10.5  | 0.7   | 3.9   | 4.6   | 34    | 0.2   | 0.4   | 0.4   | 49    | 0.28  | 0.177 |
| L4500N 7450E   | Soil  | 0.5   | 12.1  | 10.8  | 67    | <0.1  | 10.0  | 4.3   | 399   | 1.50  | 6.8   | 0.4   | 2.2   | 2.6   | 22    | <0.1  | 0.2   | 0.2   | 29    | 0.16  | 0.152 |
| L4500N 7462.5E | Soil  | 0.5   | 13.6  | 10.9  | 103   | 0.1   | 13.9  | 5.0   | 401   | 1.71  | 9.0   | 0.4   | 1.6   | 3.0   | 24    | 0.2   | 0.2   | 0.2   | 36    | 0.18  | 0.142 |
| L4500N 7475E   | Soil  | 0.5   | 13.1  | 8.8   | 59    | <0.1  | 11.9  | 5.2   | 336   | 1.62  | 7.1   | 0.5   | 3.1   | 3.2   | 26    | <0.1  | 0.2   | 0.2   | 34    | 0.17  | 0.105 |
| L4500N 7487.5E | Soil  | 0.5   | 14.3  | 9.2   | 73    | <0.1  | 12.8  | 5.4   | 586   | 1.71  | 8.2   | 0.5   | 4.2   | 3.2   | 29    | 0.1   | 0.2   | 0.1   | 36    | 0.19  | 0.170 |
| L4500N 7500E   | Soil  | 0.5   | 20.9  | 10.7  | 77    | 0.1   | 15.7  | 7.0   | 434   | 2.07  | 9.6   | 0.6   | 2.1   | 4.6   | 45    | 0.2   | 0.3   | 0.2   | 46    | 0.26  | 0.192 |
| L4500N 7512.5E | Soil  | 0.4   | 20.6  | 9.4   | 53    | 0.1   | 16.2  | 6.9   | 387   | 1.95  | 10.1  | 0.6   | 1.4   | 4.2   | 35    | 0.1   | 0.3   | 0.2   | 40    | 0.23  | 0.132 |
| L4500N 7525E   | Soil  | 0.5   | 20.4  | 7.6   | 47    | <0.1  | 14.9  | 6.3   | 352   | 1.80  | 10.4  | 0.5   | 3.9   | 4.0   | 37    | <0.1  | 0.2   | 0.1   | 38    | 0.25  | 0.131 |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method<br>Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                   |      | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se   |
| MDL               |      | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
|                   |      | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.01  | 0.01  | 0.01  | 0.05  | 1     | 0.5   |      |
| L4500N 7150E      | Soil | 6     | 17    | 0.21  | 190   | 0.082 | 2     | 1.68  | 0.026 | 0.09  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7162.5E    | Soil | 10    | 17    | 0.24  | 179   | 0.084 | 4     | 1.85  | 0.027 | 0.10  | 0.1   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7175E      | Soil | 6     | 17    | 0.22  | 184   | 0.084 | 2     | 1.85  | 0.027 | 0.08  | 0.1   | 0.02  | 1.6   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7187.5E    | Soil | 8     | 23    | 0.30  | 223   | 0.093 | 2     | 2.24  | 0.028 | 0.11  | 0.1   | 0.02  | 2.2   | <0.1  | <0.05 | 6     | <0.5 |
| L4500N 7200E      | Soil | 4     | 13    | 0.18  | 87    | 0.098 | 3     | 2.10  | 0.031 | 0.08  | 0.2   | 0.01  | 1.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7212.5E    | Soil | 10    | 17    | 0.26  | 123   | 0.095 | 2     | 2.02  | 0.029 | 0.08  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7225E      | Soil | 12    | 30    | 0.41  | 136   | 0.105 | 2     | 1.94  | 0.022 | 0.09  | 0.2   | 0.01  | 2.3   | <0.1  | <0.05 | 6     | <0.5 |
| L4500N 7237.5E    | Soil | 19    | 16    | 0.31  | 181   | 0.105 | 2     | 2.14  | 0.024 | 0.08  | 0.2   | 0.03  | 2.1   | <0.1  | <0.05 | 7     | <0.5 |
| L4500N 7250E      | Soil | 4     | 5     | 0.10  | 42    | 0.039 | <1    | 0.43  | 0.023 | 0.03  | <0.1  | 0.01  | 1.1   | <0.1  | <0.05 | 2     | <0.5 |
| L4500N 7262.5E    | Soil | 7     | 26    | 0.37  | 152   | 0.102 | 3     | 1.82  | 0.019 | 0.11  | 0.2   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7275E      | Soil | 9     | 29    | 0.36  | 143   | 0.104 | 2     | 1.66  | 0.019 | 0.11  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7287.5E    | Soil | 17    | 25    | 0.36  | 177   | 0.113 | 3     | 2.16  | 0.026 | 0.12  | 0.2   | 0.03  | 3.2   | 0.1   | <0.05 | 6     | <0.5 |
| L4500N 7300E      | Soil | 15    | 27    | 0.41  | 205   | 0.117 | 2     | 2.45  | 0.023 | 0.11  | 0.2   | 0.04  | 2.7   | 0.1   | <0.05 | 7     | <0.5 |
| L4500N 7312.5E    | Soil | 9     | 27    | 0.40  | 167   | 0.118 | <1    | 2.00  | 0.018 | 0.08  | 0.3   | 0.04  | 2.1   | 0.1   | <0.05 | 8     | <0.5 |
| L4500N 7325E      | Soil | 9     | 23    | 0.32  | 185   | 0.104 | 2     | 1.40  | 0.019 | 0.07  | 0.2   | 0.02  | 1.6   | <0.1  | <0.05 | 7     | <0.5 |
| L4500N 7337.5E    | Soil | 14    | 24    | 0.34  | 217   | 0.106 | 2     | 2.27  | 0.021 | 0.08  | 0.2   | 0.03  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4500N 7350E      | Soil | 11    | 18    | 0.27  | 195   | 0.092 | 3     | 1.90  | 0.022 | 0.07  | 0.2   | 0.03  | 1.9   | 0.1   | <0.05 | 5     | <0.5 |
| L4500N 7362.5E    | Soil | 13    | 18    | 0.26  | 196   | 0.097 | 3     | 1.84  | 0.025 | 0.07  | 0.2   | 0.02  | 1.9   | 0.1   | <0.05 | 5     | <0.5 |
| L4500N 7375E      | Soil | 11    | 21    | 0.29  | 316   | 0.088 | 1     | 1.49  | 0.021 | 0.09  | 0.1   | 0.02  | 1.8   | 0.1   | <0.05 | 5     | <0.5 |
| L4500N 7400E      | Soil | 11    | 22    | 0.31  | 190   | 0.105 | 1     | 2.17  | 0.020 | 0.09  | 0.4   | 0.03  | 2.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4500N 7412.5E    | Soil | 10    | 16    | 0.24  | 150   | 0.066 | 2     | 1.24  | 0.027 | 0.09  | 0.1   | 0.02  | 1.4   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7425E      | Soil | 6     | 13    | 0.18  | 238   | 0.065 | 1     | 1.11  | 0.022 | 0.08  | <0.1  | 0.01  | 1.3   | <0.1  | <0.05 | 3     | <0.5 |
| L4500N 7437.5E    | Soil | 20    | 31    | 0.41  | 174   | 0.076 | 1     | 1.60  | 0.014 | 0.11  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 6     | <0.5 |
| L4500N 7450E      | Soil | 7     | 16    | 0.22  | 168   | 0.075 | 2     | 1.38  | 0.022 | 0.07  | 0.2   | 0.02  | 1.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7462.5E    | Soil | 10    | 22    | 0.27  | 241   | 0.071 | 3     | 1.31  | 0.019 | 0.09  | 0.2   | 0.02  | 1.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7475E      | Soil | 9     | 20    | 0.24  | 149   | 0.078 | 2     | 1.42  | 0.019 | 0.09  | 0.2   | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7487.5E    | Soil | 12    | 23    | 0.25  | 232   | 0.073 | 2     | 1.43  | 0.016 | 0.09  | 0.2   | 0.01  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7500E      | Soil | 16    | 28    | 0.35  | 204   | 0.090 | 3     | 1.72  | 0.020 | 0.10  | 0.2   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7512.5E    | Soil | 15    | 26    | 0.29  | 152   | 0.099 | 3     | 1.92  | 0.024 | 0.09  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 6     | <0.5 |
| L4500N 7525E      | Soil | 13    | 24    | 0.29  | 121   | 0.085 | 2     | 1.55  | 0.023 | 0.10  | 0.2   | 0.01  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4500N 7537.5E | Soil  | 0.5   | 24.7  | 9.0   | 47    | <0.1  | 14.5  | 5.9   | 367   | 1.75  | 9.8   | 1.1   | 1.9   | 3.9   | 42    | <0.1  | 0.3   | 0.1   | 38    | 0.26  | 0.164 |
| L4500N 7550E   | Soil  | 0.5   | 19.5  | 9.7   | 52    | <0.1  | 14.2  | 6.2   | 330   | 1.71  | 10.3  | 1.0   | 33.4  | 4.1   | 38    | <0.1  | 0.2   | 0.2   | 35    | 0.28  | 0.129 |
| L4500N 7562.5E | Soil  | 0.5   | 22.6  | 9.4   | 57    | 0.1   | 14.2  | 5.8   | 451   | 1.78  | 7.7   | 1.5   | 1.8   | 4.4   | 46    | <0.1  | 0.2   | 0.2   | 34    | 0.25  | 0.158 |
| L4500N 7575E   | Soil  | 0.6   | 21.8  | 9.2   | 64    | <0.1  | 16.0  | 6.1   | 478   | 1.79  | 8.6   | 0.9   | 1.8   | 4.3   | 27    | <0.1  | 0.2   | 0.2   | 37    | 0.16  | 0.153 |
| L4500N 7587.5E | Soil  | 0.4   | 15.3  | 7.7   | 50    | <0.1  | 17.3  | 5.9   | 302   | 1.75  | 10.2  | 0.6   | 3.2   | 3.6   | 25    | <0.1  | 0.2   | 0.2   | 36    | 0.19  | 0.142 |
| L4500N 7600E   | Soil  | 0.5   | 20.1  | 7.7   | 48    | <0.1  | 17.4  | 6.4   | 335   | 1.77  | 10.8  | 0.6   | 11.2  | 4.2   | 20    | <0.1  | 0.2   | 0.1   | 38    | 0.14  | 0.136 |
| L4500N 7612.5E | Soil  | 0.4   | 18.2  | 7.5   | 55    | <0.1  | 15.6  | 6.1   | 334   | 1.64  | 9.8   | 0.4   | 3.9   | 3.2   | 19    | 0.1   | 0.2   | 0.2   | 36    | 0.15  | 0.119 |
| L4500N 7625E   | Soil  | 0.4   | 16.3  | 8.8   | 111   | <0.1  | 15.3  | 6.3   | 369   | 1.75  | 11.9  | 0.5   | 4.8   | 3.5   | 28    | 0.5   | 0.2   | 0.2   | 39    | 0.27  | 0.173 |
| L4500N 7637.5E | Soil  | 0.5   | 21.6  | 20.3  | 214   | 0.1   | 16.0  | 6.8   | 524   | 1.89  | 11.3  | 0.7   | 5.4   | 3.8   | 23    | 1.5   | 0.3   | 0.2   | 43    | 0.22  | 0.199 |
| L4500N 7650E   | Soil  | 0.5   | 21.5  | 10.6  | 75    | <0.1  | 16.0  | 7.0   | 295   | 1.84  | 12.3  | 0.6   | 2.2   | 3.8   | 25    | 0.5   | 0.3   | 0.2   | 41    | 0.23  | 0.078 |
| L4450N 7150E   | Soil  | 0.4   | 20.7  | 8.9   | 35    | 0.2   | 19.8  | 6.2   | 253   | 1.59  | 16.1  | 0.8   | 3.2   | 3.2   | 30    | 0.1   | 0.3   | 0.2   | 33    | 0.31  | 0.076 |
| L4450N 7162.5E | Soil  | 1.1   | 59.7  | 8.9   | 57    | 0.3   | 98.6  | 9.4   | 284   | 2.05  | 26.8  | 0.7   | 8.8   | 3.6   | 37    | 0.1   | 0.4   | 0.2   | 49    | 0.40  | 0.055 |
| L4450N 7175E   | Soil  | 1.5   | 42.1  | 7.6   | 55    | 0.3   | 40.0  | 10.4  | 248   | 2.36  | 23.2  | 0.9   | 5.0   | 5.4   | 38    | 0.1   | 0.4   | 0.2   | 63    | 0.35  | 0.030 |
| L4450N 7187.5E | Soil  | 0.9   | 37.8  | 8.0   | 47    | <0.1  | 32.0  | 10.3  | 345   | 2.46  | 19.8  | 1.1   | 5.0   | 4.8   | 31    | <0.1  | 0.3   | 0.2   | 60    | 0.37  | 0.088 |
| L4450N 7200E   | Soil  | 0.3   | 30.2  | 8.6   | 67    | 0.3   | 26.3  | 7.4   | 322   | 1.82  | 18.6  | 0.8   | 2.2   | 3.5   | 31    | 0.1   | 0.2   | 0.2   | 37    | 0.22  | 0.196 |
| L4450N 7212.5E | Soil  | 0.4   | 15.4  | 6.2   | 62    | 0.2   | 15.5  | 5.3   | 543   | 1.31  | 10.3  | 0.4   | 1.3   | 2.2   | 38    | 0.1   | 0.1   | 0.2   | 27    | 0.28  | 0.173 |
| L4450N 7225E   | Soil  | 0.5   | 26.2  | 7.5   | 69    | 0.2   | 23.5  | 7.1   | 373   | 1.65  | 15.8  | 0.4   | 1.8   | 2.9   | 38    | 0.1   | 0.2   | 0.2   | 33    | 0.21  | 0.255 |
| L4450N 7250E   | Soil  | 0.9   | 23.1  | 9.4   | 70    | <0.1  | 23.0  | 8.0   | 440   | 1.95  | 12.8  | 0.7   | 3.1   | 3.6   | 32    | 0.1   | 0.2   | 0.2   | 40    | 0.20  | 0.270 |
| L4450N 7237.5E | Soil  | 0.5   | 30.7  | 8.5   | 70    | 0.2   | 22.2  | 7.6   | 494   | 1.77  | 20.5  | 0.8   | 2.6   | 2.9   | 30    | 0.2   | 0.2   | 0.2   | 34    | 0.22  | 0.231 |
| L4450N 7262.5E | Soil  | 0.8   | 24.7  | 11.0  | 59    | <0.1  | 22.8  | 8.2   | 271   | 1.98  | 11.1  | 0.9   | 3.1   | 3.4   | 41    | 0.1   | 0.2   | 0.2   | 45    | 0.29  | 0.104 |
| L4450N 7275E   | Soil  | 0.6   | 22.7  | 14.6  | 67    | 0.1   | 21.3  | 7.7   | 432   | 2.02  | 15.8  | 0.9   | 2.9   | 3.7   | 29    | 0.1   | 0.2   | 0.2   | 47    | 0.21  | 0.225 |
| L4450N 7287.5E | Soil  | 0.7   | 12.9  | 15.6  | 86    | <0.1  | 13.4  | 6.2   | 678   | 1.69  | 10.6  | 0.3   | 1.9   | 1.9   | 33    | 0.2   | 0.2   | 0.3   | 41    | 0.28  | 0.116 |
| L4450N 7300E   | Soil  | 0.6   | 19.8  | 9.1   | 49    | 0.1   | 17.6  | 6.4   | 451   | 1.65  | 11.1  | 0.6   | 3.4   | 3.0   | 25    | 0.1   | 0.2   | 0.2   | 35    | 0.15  | 0.138 |
| L4450N 7312.5E | Soil  | 0.3   | 28.8  | 7.9   | 58    | 0.1   | 22.1  | 7.4   | 299   | 1.75  | 13.2  | 0.5   | 2.7   | 3.1   | 22    | <0.1  | 0.2   | 0.2   | 41    | 0.15  | 0.116 |
| L4450N 7325E   | Soil  | 0.4   | 24.0  | 6.7   | 48    | 0.1   | 21.7  | 7.5   | 272   | 1.76  | 10.0  | 0.5   | 1.9   | 3.1   | 26    | <0.1  | 0.2   | 0.1   | 39    | 0.17  | 0.093 |
| L4450N 7337.5E | Soil  | 0.5   | 18.0  | 19.1  | 55    | <0.1  | 7.8   | 4.1   | 1150  | 1.10  | 18.3  | 0.3   | 2.9   | 0.4   | 22    | 0.4   | 0.5   | 0.4   | 27    | 0.20  | 0.075 |
| L4450N 7350E   | Soil  | 1.1   | 23.5  | 9.2   | 57    | <0.1  | 19.1  | 7.9   | 286   | 2.20  | 15.3  | 0.7   | 2.2   | 3.7   | 13    | 0.1   | 0.3   | 0.2   | 52    | 0.12  | 0.108 |
| L4450N 7362.5E | Soil  | 0.5   | 24.7  | 9.6   | 54    | <0.1  | 22.6  | 7.3   | 569   | 1.85  | 14.9  | 0.6   | 4.0   | 3.1   | 22    | 0.1   | 0.3   | 0.2   | 47    | 0.22  | 0.097 |
| L4450N 7375E   | Soil  | 0.7   | 46.5  | 8.8   | 53    | 0.1   | 38.6  | 10.4  | 300   | 2.47  | 19.7  | 1.5   | 4.3   | 5.6   | 18    | <0.1  | 0.3   | 0.1   | 66    | 0.21  | 0.097 |
| L4450N 7387.5E | Soil  | 0.5   | 27.0  | 9.2   | 84    | <0.1  | 23.9  | 8.3   | 463   | 1.88  | 15.6  | 0.6   | 2.8   | 3.7   | 34    | 0.3   | 0.2   | 0.2   | 42    | 0.31  | 0.088 |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4500N 7537.5E | Soil  | 20    | 24    | 0.30  | 137   | 0.092 | 1     | 1.79  | 0.025 | 0.10  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7550E   | Soil  | 15    | 21    | 0.28  | 138   | 0.098 | 2     | 1.90  | 0.027 | 0.10  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7562.5E | Soil  | 20    | 22    | 0.30  | 155   | 0.102 | 2     | 2.10  | 0.027 | 0.09  | 0.2   | 0.02  | 2.6   | <0.1  | <0.05 | 6     | <0.5 |
| L4500N 7575E   | Soil  | 14    | 23    | 0.33  | 153   | 0.096 | 3     | 1.83  | 0.024 | 0.10  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L4500N 7587.5E | Soil  | 10    | 23    | 0.25  | 124   | 0.089 | 1     | 1.56  | 0.023 | 0.09  | 0.2   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5 |
| L4500N 7600E   | Soil  | 11    | 25    | 0.26  | 135   | 0.081 | 2     | 1.47  | 0.020 | 0.08  | 0.1   | 0.01  | 2.1   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7612.5E | Soil  | 10    | 25    | 0.25  | 154   | 0.073 | 1     | 1.32  | 0.017 | 0.08  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7625E   | Soil  | 12    | 26    | 0.29  | 168   | 0.072 | 2     | 1.33  | 0.016 | 0.09  | 0.2   | 0.02  | 2.4   | <0.1  | <0.05 | 4     | <0.5 |
| L4500N 7637.5E | Soil  | 16    | 28    | 0.34  | 159   | 0.073 | 2     | 1.52  | 0.018 | 0.08  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 4     | <0.5 |
| L4500N 7650E   | Soil  | 13    | 25    | 0.31  | 138   | 0.078 | 2     | 1.51  | 0.019 | 0.11  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 4     | <0.5 |
| L4450N 7150E   | Soil  | 14    | 21    | 0.23  | 92    | 0.098 | 2     | 2.03  | 0.027 | 0.08  | 0.2   | 0.03  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7162.5E | Soil  | 20    | 52    | 0.56  | 105   | 0.124 | 2     | 2.04  | 0.026 | 0.13  | 0.3   | 0.03  | 4.0   | 0.2   | <0.05 | 5     | <0.5 |
| L4450N 7175E   | Soil  | 20    | 54    | 0.57  | 104   | 0.116 | 1     | 1.40  | 0.020 | 0.12  | 0.2   | 0.02  | 5.0   | 0.2   | <0.05 | 6     | <0.5 |
| L4450N 7187.5E | Soil  | 20    | 49    | 0.61  | 144   | 0.129 | <1    | 1.37  | 0.026 | 0.18  | 0.3   | 0.02  | 4.2   | 0.1   | <0.05 | 5     | <0.5 |
| L4450N 7200E   | Soil  | 14    | 26    | 0.30  | 167   | 0.116 | 2     | 2.50  | 0.025 | 0.10  | 0.2   | 0.04  | 3.0   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7212.5E | Soil  | 7     | 17    | 0.19  | 227   | 0.076 | 2     | 1.39  | 0.018 | 0.07  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7225E   | Soil  | 8     | 25    | 0.27  | 262   | 0.098 | 2     | 1.93  | 0.020 | 0.09  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7250E   | Soil  | 11    | 33    | 0.41  | 192   | 0.111 | 2     | 2.05  | 0.020 | 0.10  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7237.5E | Soil  | 11    | 27    | 0.33  | 200   | 0.109 | 3     | 2.26  | 0.025 | 0.11  | 0.1   | 0.02  | 3.0   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7262.5E | Soil  | 14    | 37    | 0.46  | 112   | 0.120 | 2     | 1.86  | 0.021 | 0.11  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7275E   | Soil  | 12    | 34    | 0.43  | 165   | 0.114 | 2     | 2.19  | 0.014 | 0.10  | 0.2   | 0.03  | 2.9   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7287.5E | Soil  | 10    | 31    | 0.40  | 162   | 0.135 | 2     | 1.19  | 0.022 | 0.08  | 0.2   | 0.03  | 1.4   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7300E   | Soil  | 10    | 23    | 0.27  | 186   | 0.105 | 2     | 2.20  | 0.021 | 0.07  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7312.5E | Soil  | 9     | 29    | 0.32  | 174   | 0.096 | 2     | 1.71  | 0.018 | 0.10  | 0.2   | 0.01  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7325E   | Soil  | 8     | 27    | 0.32  | 198   | 0.091 | 2     | 1.63  | 0.016 | 0.09  | 0.1   | 0.02  | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7337.5E | Soil  | 5     | 12    | 0.19  | 156   | 0.062 | 1     | 0.90  | 0.021 | 0.06  | 0.1   | 0.03  | 1.0   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7350E   | Soil  | 13    | 30    | 0.40  | 85    | 0.120 | 2     | 2.30  | 0.013 | 0.08  | 0.2   | 0.04  | 2.5   | <0.1  | <0.05 | 8     | <0.5 |
| L4450N 7362.5E | Soil  | 12    | 35    | 0.42  | 172   | 0.100 | 2     | 1.64  | 0.017 | 0.09  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5 |
| L4450N 7375E   | Soil  | 20    | 73    | 0.78  | 80    | 0.137 | <1    | 2.38  | 0.018 | 0.11  | 0.1   | 0.01  | 5.6   | 0.1   | <0.05 | 7     | <0.5 |
| L4450N 7387.5E | Soil  | 15    | 35    | 0.44  | 188   | 0.113 | 3     | 2.10  | 0.021 | 0.10  | 0.2   | 0.03  | 3.0   | 0.1   | <0.05 | 6     | <0.5 |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4450N 7400E            | Soil             | 0.8              | 32.2             | 10.8           | 76               | <0.1             | 25.2             | 8.8            | 415             | 2.15             | 15.1            | 0.9              | 2.7              | 5.3            | 31               | 0.2              | 0.2              | 0.2           | 49              | 0.24            | 0.115 |
| L4450N 7412.5E          | Soil             | 0.6              | 21.6             | 10.8           | 96               | <0.1             | 16.8             | 6.5            | 439             | 1.84             | 10.7            | 0.9              | 2.5              | 4.6            | 37               | 0.2              | 0.2              | 0.2           | 37              | 0.26            | 0.195 |
| L4450N 7425E            | Soil             | 0.6              | 25.6             | 11.8           | 76               | 0.1              | 17.2             | 7.0            | 344             | 1.93             | 11.4            | 1.3              | 2.4              | 5.2            | 34               | 0.2              | 0.2              | 0.2           | 42              | 0.28            | 0.152 |
| L4450N 7437.5E          | Soil             | 0.7              | 29.5             | 11.8           | 63               | 0.1              | 16.0             | 6.9            | 272             | 1.95             | 18.4            | 1.1              | 2.1              | 5.5            | 34               | <0.1             | 0.3              | 0.2           | 41              | 0.28            | 0.212 |
| L4450N 7450E            | Soil             | 0.6              | 24.4             | 10.8           | 58               | 0.1              | 16.1             | 6.3            | 328             | 1.79             | 11.4            | 1.1              | 3.5              | 5.0            | 28               | 0.1              | 0.2              | 0.2           | 38              | 0.20            | 0.169 |
| L4450N 7462.5           | Soil             | 0.5              | 29.9             | 9.0            | 51               | 0.2              | 15.9             | 6.7            | 237             | 1.84             | 10.8            | 1.0              | 2.4              | 4.9            | 39               | <0.1             | 0.2              | 0.2           | 43              | 0.29            | 0.100 |
| L4450N 7475E            | Soil             | 0.6              | 15.2             | 8.3            | 66               | 0.1              | 14.6             | 5.6            | 426             | 1.54             | 11.0            | 0.5              | 1.9              | 3.3            | 34               | <0.1             | 0.1              | 0.2           | 30              | 0.19            | 0.281 |
| L4450N 7487.5E          | Soil             | 0.5              | 22.8             | 8.8            | 57               | 0.1              | 18.0             | 6.8            | 453             | 1.87             | 9.0             | 0.7              | 1.6              | 4.4            | 37               | 0.2              | 0.2              | 0.1           | 42              | 0.25            | 0.187 |
| L4450N 7500E            | Soil             | 0.5              | 17.6             | 7.2            | 57               | <0.1             | 12.7             | 5.8            | 523             | 1.56             | 10.1            | 0.6              | 1.5              | 2.7            | 28               | 0.2              | 0.2              | 0.1           | 35              | 0.22            | 0.141 |
| L4450N 7512.5E          | Soil             | 0.5              | 21.3             | 9.2            | 49               | 0.1              | 13.5             | 5.7            | 392             | 1.66             | 13.3            | 0.8              | 2.3              | 3.6            | 24               | 0.1              | 0.1              | 0.2           | 36              | 0.17            | 0.125 |
| L4450N 7525E            | Soil             | 0.7              | 26.3             | 9.1            | 58               | <0.1             | 17.1             | 6.9            | 359             | 1.84             | 11.0            | 0.9              | 2.2              | 4.2            | 34               | 0.1              | 0.1              | 0.2           | 36              | 0.25            | 0.160 |
| L4450N 7537.5E          | Soil             | 0.4              | 22.4             | 7.9            | 52               | <0.1             | 15.0             | 6.1            | 339             | 1.61             | 10.7            | 0.7              | 1.4              | 3.3            | 27               | <0.1             | 0.2              | 0.2           | 33              | 0.21            | 0.139 |
| L4450N 7550E            | Soil             | 0.4              | 17.8             | 7.5            | 50               | <0.1             | 16.1             | 6.4            | 264             | 1.57             | 10.7            | 0.6              | 6.9              | 2.8            | 29               | 0.1              | 0.2              | 0.1           | 35              | 0.28            | 0.085 |
| L4450N 7562.5E          | Soil             | 0.3              | 12.7             | 5.8            | 46               | 0.1              | 13.3             | 5.0            | 379             | 1.43             | 7.5             | 0.4              | 1.2              | 2.3            | 24               | <0.1             | 0.1              | 0.1           | 29              | 0.19            | 0.188 |
| L4450N 7575E            | Soil             | 0.4              | 11.3             | 5.8            | 47               | 0.1              | 12.6             | 4.7            | 370             | 1.38             | 7.5             | 0.3              | 0.9              | 2.3            | 25               | <0.1             | 0.1              | 0.1           | 30              | 0.19            | 0.193 |
| L4450N 7587.5E          | Soil             | 0.4              | 16.4             | 6.2            | 49               | 0.1              | 12.3             | 5.6            | 326             | 1.48             | 7.3             | 0.4              | 3.8              | 2.3            | 22               | <0.1             | 0.1              | 0.1           | 34              | 0.18            | 0.133 |
| L4450N 7600E            | Soil             | 0.3              | 13.5             | 7.8            | 35               | <0.1             | 9.9              | 4.4            | 334             | 1.23             | 7.0             | 0.3              | 5.1              | 1.5            | 18               | <0.1             | 0.2              | 0.1           | 29              | 0.17            | 0.119 |
| L4450N 7612.5E          | Soil             | 0.3              | 21.1             | 6.1            | 55               | <0.1             | 16.1             | 6.9            | 193             | 1.76             | 6.2             | 0.5              | 6.4              | 2.8            | 27               | <0.1             | 0.1              | 0.1           | 39              | 0.27            | 0.028 |
| L4450N 7625E            | Soil             | 0.4              | 16.7             | 8.5            | 103              | 0.1              | 16.2             | 6.0            | 809             | 1.74             | 6.9             | 0.6              | 3.1              | 2.2            | 51               | 0.5              | 0.2              | 0.1           | 48              | 0.66            | 0.155 |
| L4450N 7637.5E          | Soil             | 0.4              | 25.5             | 7.7            | 58               | 0.1              | 20.2             | 7.7            | 357             | 2.09             | 11.2            | 0.5              | 1.9              | 3.5            | 23               | 0.2              | 0.2              | 0.1           | 49              | 0.24            | 0.117 |
| L4450N 7650E            | Soil             | 0.5              | 28.3             | 7.5            | 51               | 0.2              | 17.3             | 7.5            | 340             | 1.91             | 12.1            | 0.6              | 167.5            | 3.5            | 31               | 0.2              | 0.1              | 0.1           | 47              | 0.29            | 0.106 |
| L4400N 7150E            | Soil             | 0.5              | 28.8             | 6.8            | 87               | 0.1              | 32.0             | 8.5            | 588             | 1.77             | 22.1            | 0.4              | 1.9              | 1.7            | 24               | <0.1             | 0.2              | 0.2           | 39              | 0.22            | 0.145 |
| L4400N 7162.5E          | Soil             | 0.5              | 34.4             | 6.5            | 90               | 0.2              | 48.4             | 11.1           | 473             | 2.28             | 18.4            | 0.8              | 1.7              | 3.3            | 24               | <0.1             | 0.3              | 0.1           | 53              | 0.25            | 0.141 |
| L4400N 7175E            | Soil             | 0.7              | 27.3             | 6.3            | 80               | 0.1              | 49.6             | 9.9            | 476             | 2.02             | 14.1            | 0.4              | 2.2              | 2.5            | 21               | <0.1             | 0.2              | 0.1           | 45              | 0.21            | 0.116 |
| L4400N 7187.5E          | Soil             | 0.6              | 22.2             | 6.1            | 90               | <0.1             | 36.6             | 9.3            | 388             | 1.93             | 16.2            | 0.3              | 1.7              | 2.4            | 18               | <0.1             | 0.1              | 0.1           | 40              | 0.22            | 0.182 |
| L4400N 7200E            | Soil             | 0.5              | 34.5             | 6.7            | 86               | 0.2              | 30.4             | 9.3            | 477             | 1.95             | 18.3            | 0.5              | 2.1              | 2.6            | 19               | 0.2              | 0.2              | 0.1           | 47              | 0.25            | 0.164 |
| L4400N 7212.5E          | Soil             | 0.4              | 32.6             | 6.9            | 111              | <0.1             | 31.8             | 9.4            | 506             | 2.04             | 18.5            | 0.4              | 2.3              | 2.8            | 24               | 0.3              | 0.2              | 0.2           | 44              | 0.26            | 0.223 |
| L4400N 7225E            | Soil             | 0.9              | 31.3             | 8.1            | 107              | 0.2              | 37.2             | 11.3           | 391             | 2.38             | 18.4            | 0.6              | 1.7              | 3.0            | 24               | 0.2              | 0.2              | 0.3           | 54              | 0.25            | 0.178 |
| L4400N 7237.5E          | Soil             | 0.7              | 34.8             | 8.7            | 70               | 0.1              | 34.0             | 10.6           | 395             | 2.41             | 26.2            | 0.7              | 20.5             | 3.1            | 22               | 0.1              | 0.3              | 0.2           | 56              | 0.23            | 0.151 |
| L4400N 7250E            | Soil             | 0.4              | 24.5             | 7.9            | 68               | <0.1             | 23.1             | 8.8            | 535             | 2.16             | 15.1            | 0.5              | 2.1              | 2.8            | 19               | 0.2              | 0.2              | 0.2           | 50              | 0.20            | 0.101 |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4450N 7400E   | Soil  | 20    | 39    | 0.44  | 159   | 0.116 | 2     | 2.08  | 0.019 | 0.14  | 0.2   | 0.02  | 3.6   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7412.5E | Soil  | 17    | 27    | 0.32  | 227   | 0.105 | 3     | 2.00  | 0.020 | 0.12  | 0.2   | 0.02  | 3.1   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7425E   | Soil  | 25    | 26    | 0.31  | 173   | 0.115 | 3     | 2.36  | 0.022 | 0.13  | 0.2   | 0.03  | 3.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7437.5E | Soil  | 23    | 24    | 0.29  | 166   | 0.111 | 2     | 2.44  | 0.021 | 0.14  | 0.3   | 0.03  | 3.0   | 0.1   | <0.05 | 7     | <0.5 |
| L4450N 7450E   | Soil  | 20    | 23    | 0.28  | 152   | 0.102 | 3     | 1.99  | 0.021 | 0.11  | 0.2   | 0.03  | 2.9   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7462.5  | Soil  | 20    | 25    | 0.29  | 145   | 0.104 | 2     | 1.96  | 0.023 | 0.13  | 0.2   | 0.02  | 3.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7475E   | Soil  | 10    | 19    | 0.21  | 226   | 0.084 | 2     | 1.67  | 0.019 | 0.09  | 0.1   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7487.5E | Soil  | 17    | 27    | 0.29  | 218   | 0.088 | 2     | 1.65  | 0.020 | 0.10  | 0.2   | 0.02  | 2.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7500E   | Soil  | 12    | 21    | 0.24  | 182   | 0.078 | 1     | 1.34  | 0.020 | 0.08  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7512.5E | Soil  | 13    | 22    | 0.24  | 143   | 0.097 | 2     | 1.79  | 0.021 | 0.08  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7525E   | Soil  | 15    | 25    | 0.28  | 166   | 0.105 | 2     | 1.92  | 0.019 | 0.15  | 0.2   | 0.01  | 3.0   | <0.1  | <0.05 | 6     | <0.5 |
| L4450N 7537.5E | Soil  | 14    | 21    | 0.26  | 147   | 0.099 | 2     | 1.91  | 0.024 | 0.11  | 0.1   | 0.02  | 2.5   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7550E   | Soil  | 11    | 21    | 0.20  | 117   | 0.076 | 3     | 1.69  | 0.020 | 0.10  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7562.5E | Soil  | 8     | 18    | 0.15  | 167   | 0.057 | <1    | 1.34  | 0.014 | 0.08  | 0.1   | <0.01 | 1.7   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7575E   | Soil  | 8     | 18    | 0.15  | 167   | 0.061 | 2     | 1.40  | 0.016 | 0.09  | 0.1   | 0.02  | 1.7   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7587.5E | Soil  | 10    | 22    | 0.18  | 161   | 0.059 | 1     | 1.23  | 0.018 | 0.08  | 0.2   | 0.02  | 1.8   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7600E   | Soil  | 6     | 16    | 0.14  | 108   | 0.053 | 1     | 0.97  | 0.017 | 0.07  | 0.1   | 0.02  | 1.3   | <0.1  | <0.05 | 3     | <0.5 |
| L4450N 7612.5E | Soil  | 11    | 26    | 0.26  | 91    | 0.080 | 2     | 1.56  | 0.026 | 0.08  | 0.1   | 0.01  | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7625E   | Soil  | 11    | 28    | 0.34  | 227   | 0.060 | 3     | 1.34  | 0.019 | 0.09  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 4     | <0.5 |
| L4450N 7637.5E | Soil  | 13    | 34    | 0.31  | 173   | 0.081 | 2     | 1.65  | 0.018 | 0.14  | 0.2   | 0.01  | 2.6   | 0.1   | <0.05 | 5     | <0.5 |
| L4450N 7650E   | Soil  | 16    | 31    | 0.27  | 138   | 0.078 | 2     | 1.52  | 0.020 | 0.14  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7150E   | Soil  | 6     | 39    | 0.33  | 198   | 0.085 | 1     | 1.41  | 0.021 | 0.08  | 0.1   | 0.02  | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4400N 7162.5E | Soil  | 11    | 60    | 0.53  | 178   | 0.121 | 2     | 2.37  | 0.022 | 0.11  | 0.2   | 0.04  | 4.2   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7175E   | Soil  | 8     | 51    | 0.43  | 166   | 0.110 | 2     | 2.07  | 0.021 | 0.09  | 0.1   | 0.02  | 3.0   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7187.5E | Soil  | 7     | 45    | 0.35  | 172   | 0.098 | 2     | 1.84  | 0.017 | 0.10  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7200E   | Soil  | 9     | 46    | 0.37  | 176   | 0.101 | 2     | 1.95  | 0.018 | 0.10  | 0.2   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7212.5E | Soil  | 8     | 40    | 0.34  | 224   | 0.099 | 3     | 2.07  | 0.020 | 0.13  | 0.1   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7225E   | Soil  | 10    | 38    | 0.38  | 152   | 0.105 | 2     | 2.15  | 0.019 | 0.11  | 0.2   | 0.02  | 3.0   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7237.5E | Soil  | 11    | 38    | 0.38  | 131   | 0.108 | 3     | 2.45  | 0.018 | 0.10  | 0.2   | 0.03  | 3.4   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7250E   | Soil  | 9     | 33    | 0.36  | 167   | 0.100 | 2     | 2.07  | 0.014 | 0.11  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 6     | <0.5 |

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Project: 41

Report Date: January 15, 2008

Page: 5 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4400N 7262.5E          | Soil             | 0.6              | 28.1             | 8.6            | 65               | <0.1             | 23.6             | 9.0            | 418             | 2.44             | 17.2            | 0.6              | 3.0              | 3.1            | 16               | 0.1              | 0.2              | 0.2           | 59              | 0.16            | 0.146 |
| L4400N 7275E            | Soil             | 0.6              | 34.5             | 9.7            | 74               | 0.1              | 26.6             | 10.2           | 628             | 2.44             | 15.1            | 0.7              | 2.4              | 3.2            | 17               | 0.3              | 0.3              | 0.2           | 61              | 0.21            | 0.125 |
| L4400N 7287.5E          | Soil             | 0.5              | 22.7             | 9.8            | 80               | <0.1             | 19.1             | 8.6            | 711             | 2.14             | 14.1            | 0.4              | 2.2              | 2.2            | 22               | 0.2              | 0.2              | 0.2           | 50              | 0.24            | 0.144 |
| L4400N 7300E            | Soil             | 0.6              | 21.2             | 8.1            | 55               | 0.2              | 17.2             | 7.9            | 587             | 1.85             | 10.1            | 0.7              | 1.5              | 2.5            | 24               | 0.2              | 0.2              | 0.2           | 42              | 0.20            | 0.105 |
| L4400N 7312.5E          | Soil             | 0.4              | 29.1             | 7.6            | 50               | 0.1              | 21.5             | 8.1            | 361             | 1.85             | 11.8            | 0.6              | 2.4              | 2.7            | 24               | 0.1              | 0.2              | 0.2           | 43              | 0.22            | 0.080 |
| L4400N 7325E            | Soil             | 0.4              | 28.3             | 6.2            | 48               | <0.1             | 21.3             | 7.6            | 359             | 1.88             | 14.3            | 0.4              | 4.4              | 2.6            | 22               | <0.1             | 0.1              | 0.2           | 45              | 0.17            | 0.091 |
| L4400N 7337.5E          | Soil             | 0.5              | 30.7             | 6.6            | 61               | <0.1             | 22.6             | 8.5            | 534             | 1.89             | 9.9             | 0.5              | 3.0              | 2.3            | 25               | 0.2              | 0.2              | 0.1           | 49              | 0.28            | 0.098 |
| L4400N 7350E            | Soil             | 0.5              | 28.5             | 9.2            | 65               | <0.1             | 15.3             | 7.0            | 810             | 1.56             | 14.7            | 0.8              | 3.9              | 0.8            | 29               | 0.3              | 0.3              | 0.2           | 40              | 0.34            | 0.096 |
| L4400N 7362.5E          | Soil             | 0.8              | 32.3             | 10.0           | 86               | 0.2              | 25.6             | 10.4           | 771             | 2.44             | 18.6            | 1.5              | 2.6              | 2.0            | 42               | 0.2              | 0.2              | 0.2           | 59              | 0.50            | 0.109 |
| L4400N 7387.5E          | Soil             | 0.7              | 25.0             | 10.4           | 90               | <0.1             | 18.3             | 8.2            | 344             | 2.01             | 13.1            | 0.4              | 1.6              | 2.8            | 24               | 0.2              | 0.2              | 0.1           | 44              | 0.16            | 0.142 |
| L4400N 7400E            | Soil             | 0.8              | 26.7             | 11.8           | 111              | <0.1             | 23.4             | 9.0            | 458             | 2.42             | 9.7             | 0.6              | 1.9              | 3.9            | 28               | 0.2              | 0.2              | 0.2           | 53              | 0.23            | 0.087 |
| L4400N 7412.5E          | Soil             | 0.6              | 15.5             | 10.2           | 117              | <0.1             | 17.1             | 8.3            | 732             | 2.10             | 10.3            | 0.5              | 3.4              | 3.8            | 27               | 0.3              | 0.1              | 0.2           | 46              | 0.23            | 0.083 |
| L4400N 7425E            | Soil             | 0.4              | 23.6             | 12.2           | 93               | <0.1             | 21.5             | 9.8            | 472             | 2.40             | 19.1            | 0.7              | 1.9              | 4.5            | 31               | 0.3              | 0.2              | 0.2           | 56              | 0.26            | 0.082 |
| L4400N 7437.5E          | Soil             | 0.6              | 24.4             | 9.4            | 69               | <0.1             | 19.1             | 8.2            | 448             | 1.96             | 32.6            | 0.7              | 2.3              | 3.4            | 31               | 0.2              | 0.1              | 0.2           | 44              | 0.26            | 0.106 |
| L4400N 7450E            | Soil             | 0.5              | 20.4             | 6.9            | 52               | 0.1              | 17.8             | 6.4            | 358             | 1.68             | 19.5            | 0.4              | 2.4              | 2.8            | 32               | 0.1              | 0.1              | 0.1           | 38              | 0.24            | 0.198 |
| L4400N 7462.5E          | Soil             | 0.3              | 16.5             | 5.1            | 46               | 0.2              | 16.7             | 5.8            | 336             | 1.48             | 6.7             | 0.3              | 1.5              | 2.2            | 22               | 0.1              | 0.1              | 0.1           | 36              | 0.20            | 0.133 |
| L4400N 7475E            | Soil             | 0.5              | 20.5             | 7.3            | 51               | <0.1             | 15.8             | 6.5            | 520             | 1.77             | 10.1            | 0.5              | 3.1              | 2.8            | 25               | 0.2              | 0.2              | 0.1           | 42              | 0.24            | 0.155 |
| L4400N 7487.5E          | Soil             | 0.5              | 20.5             | 8.0            | 65               | <0.1             | 17.2             | 6.4            | 399             | 1.87             | 11.9            | 0.5              | 5.7              | 3.1            | 16               | 0.1              | 0.2              | 0.2           | 45              | 0.16            | 0.162 |
| L4400N 7500E            | Soil             | 0.7              | 20.0             | 9.2            | 63               | <0.1             | 12.6             | 5.1            | 554             | 1.55             | 10.1            | 0.6              | 4.2              | 3.1            | 37               | 0.2              | 0.2              | 0.2           | 32              | 0.28            | 0.126 |
| L4400N 7512.5E          | Soil             | 0.5              | 15.8             | 8.0            | 57               | <0.1             | 12.1             | 5.0            | 353             | 1.47             | 9.9             | 0.6              | 2.2              | 2.7            | 26               | 0.1              | 0.1              | 0.2           | 27              | 0.17            | 0.202 |
| L4400N 7525E            | Soil             | 0.5              | 22.2             | 8.0            | 58               | 0.2              | 14.2             | 5.9            | 320             | 1.59             | 8.6             | 0.6              | 2.5              | 2.7            | 22               | 0.2              | 0.2              | 0.2           | 30              | 0.18            | 0.112 |
| L4400N 7537.5E          | Soil             | 0.3              | 16.5             | 7.3            | 61               | 0.1              | 16.2             | 5.4            | 341             | 1.61             | 12.5            | 0.5              | 2.0              | 3.2            | 23               | 0.1              | 0.2              | 0.2           | 30              | 0.17            | 0.182 |
| L4400N 7550E            | Soil             | 0.4              | 24.3             | 7.1            | 54               | 0.2              | 17.9             | 6.2            | 279             | 1.72             | 10.8            | 0.5              | 3.8              | 3.7            | 22               | <0.1             | 0.2              | 0.2           | 32              | 0.19            | 0.154 |
| L4400N 7562.5E          | Soil             | 0.5              | 16.0             | 7.7            | 62               | 0.1              | 15.3             | 5.1            | 406             | 1.56             | 7.6             | 0.4              | 4.1              | 2.8            | 30               | 0.1              | 0.1              | 0.2           | 31              | 0.24            | 0.173 |
| L4400N 7575E            | Soil             | 0.5              | 14.0             | 7.3            | 68               | <0.1             | 15.3             | 5.4            | 600             | 1.60             | 10.4            | 0.5              | 3.4              | 3.0            | 22               | 0.1              | 0.2              | 0.2           | 32              | 0.19            | 0.188 |
| L4400N 7587.5E          | Soil             | 0.3              | 19.5             | 15.1           | 83               | 0.1              | 13.2             | 4.7            | 616             | 1.35             | 11.7            | 0.3              | 2.3              | 1.7            | 48               | 0.6              | 0.4              | 0.2           | 35              | 0.63            | 0.114 |
| L4400N 7600E            | Soil             | 0.5              | 20.2             | 9.5            | 50               | <0.1             | 15.6             | 7.0            | 323             | 2.00             | 11.2            | 0.6              | 2.0              | 4.2            | 25               | 0.2              | 0.2              | 0.1           | 42              | 0.24            | 0.108 |
| L4400N 7612.5E          | Soil             | 0.4              | 21.9             | 8.2            | 53               | <0.1             | 15.1             | 6.8            | 344             | 1.86             | 8.2             | 0.5              | 3.5              | 3.6            | 23               | 0.2              | 0.2              | 0.2           | 37              | 0.23            | 0.073 |
| L4400N 7625E            | Soil             | 0.5              | 15.8             | 7.3            | 57               | 0.1              | 17.4             | 6.4            | 538             | 1.77             | 11.5            | 0.5              | 1.9              | 2.7            | 27               | 0.2              | 0.3              | 0.2           | 36              | 0.29            | 0.112 |
| L4400N 7637.5E          | Soil             | 0.6              | 17.8             | 9.1            | 72               | <0.1             | 29.9             | 7.7            | 437             | 2.03             | 13.2            | 0.6              | 2.9              | 3.5            | 23               | 0.2              | 0.4              | 0.2           | 39              | 0.21            | 0.125 |

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Report Date: January 15, 2008

Page: 5 of 11 Part 2

CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4400N 7262.5E | Soil  | 8     | 36    | 0.38  | 151   | 0.123 | 2     | 2.52  | 0.015 | 0.11  | 0.2   | 0.03  | 2.8   | 0.1   | <0.05 | 8     | <0.5 |
| L4400N 7275E   | Soil  | 11    | 37    | 0.40  | 187   | 0.124 | 2     | 2.77  | 0.016 | 0.11  | 0.3   | 0.04  | 3.1   | 0.1   | <0.05 | 8     | <0.5 |
| L4400N 7287.5E | Soil  | 9     | 27    | 0.34  | 195   | 0.106 | 2     | 2.03  | 0.016 | 0.10  | 0.2   | 0.03  | 2.2   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7300E   | Soil  | 11    | 25    | 0.29  | 201   | 0.101 | 3     | 2.30  | 0.015 | 0.10  | 0.2   | 0.05  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7312.5E | Soil  | 14    | 28    | 0.29  | 202   | 0.107 | 2     | 2.34  | 0.017 | 0.09  | 0.2   | 0.04  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7325E   | Soil  | 10    | 30    | 0.29  | 157   | 0.093 | 2     | 1.80  | 0.017 | 0.10  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7337.5E | Soil  | 10    | 33    | 0.30  | 167   | 0.093 | 2     | 1.56  | 0.017 | 0.14  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7350E   | Soil  | 15    | 23    | 0.24  | 112   | 0.072 | 1     | 1.28  | 0.019 | 0.08  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7362.5E | Soil  | 18    | 39    | 0.43  | 141   | 0.103 | 1     | 2.20  | 0.018 | 0.14  | 0.2   | 0.02  | 3.1   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7387.5E | Soil  | 7     | 28    | 0.31  | 129   | 0.079 | 1     | 1.88  | 0.013 | 0.12  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 6     | <0.5 |
| L4400N 7400E   | Soil  | 13    | 34    | 0.35  | 204   | 0.105 | 2     | 2.38  | 0.014 | 0.17  | 0.2   | 0.01  | 2.7   | 0.1   | <0.05 | 7     | <0.5 |
| L4400N 7412.5E | Soil  | 11    | 29    | 0.27  | 233   | 0.097 | 3     | 2.03  | 0.012 | 0.19  | 0.1   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7425E   | Soil  | 17    | 34    | 0.34  | 209   | 0.113 | 2     | 2.33  | 0.014 | 0.20  | 0.2   | 0.02  | 3.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7437.5E | Soil  | 13    | 26    | 0.28  | 194   | 0.111 | 3     | 2.37  | 0.019 | 0.15  | 0.2   | 0.03  | 2.7   | 0.1   | <0.05 | 6     | <0.5 |
| L4400N 7450E   | Soil  | 10    | 21    | 0.21  | 167   | 0.095 | 3     | 2.20  | 0.021 | 0.12  | 0.3   | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L4400N 7462.5E | Soil  | 8     | 22    | 0.18  | 162   | 0.071 | 2     | 1.23  | 0.018 | 0.10  | 0.2   | 0.02  | 1.8   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7475E   | Soil  | 11    | 27    | 0.22  | 162   | 0.086 | 2     | 1.56  | 0.019 | 0.10  | 0.1   | 0.02  | 2.5   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7487.5E | Soil  | 12    | 29    | 0.24  | 146   | 0.090 | 1     | 1.67  | 0.015 | 0.08  | 0.2   | 0.01  | 2.1   | <0.1  | <0.05 | 5     | <0.5 |
| L4400N 7500E   | Soil  | 16    | 19    | 0.22  | 162   | 0.085 | 2     | 1.62  | 0.027 | 0.09  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4400N 7512.5E | Soil  | 9     | 19    | 0.20  | 160   | 0.070 | <1    | 1.46  | 0.022 | 0.08  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7525E   | Soil  | 12    | 21    | 0.24  | 183   | 0.077 | 2     | 1.47  | 0.024 | 0.10  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7537.5E | Soil  | 11    | 20    | 0.21  | 174   | 0.079 | 1     | 1.57  | 0.024 | 0.08  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 5     | <0.5 |
| L4400N 7550E   | Soil  | 13    | 23    | 0.26  | 169   | 0.078 | 1     | 1.68  | 0.025 | 0.10  | 0.2   | 0.02  | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4400N 7562.5E | Soil  | 9     | 20    | 0.24  | 182   | 0.071 | 2     | 1.29  | 0.022 | 0.10  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4400N 7575E   | Soil  | 9     | 20    | 0.25  | 187   | 0.082 | 2     | 1.58  | 0.026 | 0.09  | 0.2   | 0.02  | 2.0   | 0.2   | <0.05 | 5     | <0.5 |
| L4400N 7587.5E | Soil  | 9     | 17    | 0.29  | 167   | 0.050 | 3     | 1.06  | 0.030 | 0.11  | <0.1  | 0.05  | 2.1   | 1.2   | <0.05 | 3     | 0.5  |
| L4400N 7600E   | Soil  | 16    | 28    | 0.30  | 131   | 0.082 | 1     | 1.57  | 0.025 | 0.12  | 0.2   | 0.02  | 2.6   | 0.3   | <0.05 | 5     | <0.5 |
| L4400N 7612.5E | Soil  | 14    | 26    | 0.29  | 134   | 0.079 | 1     | 1.36  | 0.028 | 0.11  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 4     | <0.5 |
| L4400N 7625E   | Soil  | 9     | 25    | 0.29  | 176   | 0.071 | 2     | 1.28  | 0.023 | 0.12  | 0.2   | 0.02  | 2.1   | 0.3   | <0.05 | 4     | <0.5 |
| L4400N 7637.5E | Soil  | 11    | 34    | 0.41  | 181   | 0.092 | 2     | 1.93  | 0.027 | 0.12  | 0.1   | 0.02  | 2.7   | 0.3   | <0.05 | 5     | <0.5 |



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Project: 41

Report Date: January 15, 2008

Page: 6 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |  |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |       |  |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |       |  |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |       |  |
| L4400N 7650E   | Soil  | 0.5   | 30.6  | 10.3  | 71    | 0.1   | 29.5  | 8.9   | 471   | 2.25  | 15.2  | 1.1   | 3.5   | 4.4   | 30    | 0.2   | 0.3   | 0.2   | 47    | 0.26  | 0.158 |       |  |
| L4350N 7150E   | Soil  | 0.5   | 22.7  | 8.2   | 74    | <0.1  | 35.7  | 7.2   | 639   | 1.69  | 16.1  | 0.3   | 1.5   | 2.0   | 26    | 0.1   | 0.2   | 0.2   | 33    | 0.24  | 0.119 |       |  |
| L4350N 7162.5E | Soil  | 0.4   | 24.5  | 6.1   | 78    | <0.1  | 45.6  | 9.3   | 428   | 1.93  | 14.7  | 0.3   | 1.4   | 2.6   | 21    | 0.2   | 0.2   | 0.1   | 41    | 0.16  | 0.176 |       |  |
| L4350N 7175E   | Soil  | 0.4   | 25.2  | 7.3   | 76    | 0.1   | 35.3  | 8.0   | 365   | 1.91  | 14.4  | 0.5   | 3.5   | 3.0   | 22    | 0.1   | 0.2   | 0.2   | 35    | 0.20  | 0.171 |       |  |
| L4350N 7187.5E | Soil  | 0.4   | 25.7  | 6.7   | 65    | <0.1  | 28.2  | 8.1   | 406   | 1.94  | 16.6  | 0.4   | 2.2   | 2.8   | 21    | 0.1   | 0.2   | 0.1   | 40    | 0.23  | 0.179 |       |  |
| L4350N 7200E   | Soil  | 0.5   | 28.1  | 12.1  | 83    | <0.1  | 23.2  | 7.3   | 629   | 1.80  | 17.8  | 0.5   | 6.9   | 2.5   | 27    | 0.3   | 0.3   | 0.2   | 36    | 0.28  | 0.132 |       |  |
| L4350N 7212.5E | Soil  | 0.3   | 15.4  | 5.8   | 76    | <0.1  | 17.1  | 5.9   | 564   | 1.57  | 13.1  | 0.3   | 1.8   | 1.8   | 27    | 0.2   | 0.2   | 0.1   | 31    | 0.21  | 0.162 |       |  |
| L4350N 7225E   | Soil  | 0.5   | 32.1  | 9.4   | 68    | 0.1   | 25.8  | 9.8   | 476   | 2.33  | 18.1  | 0.8   | 4.3   | 3.5   | 27    | 0.2   | 0.2   | 0.2   | 52    | 0.21  | 0.203 |       |  |
| L4350N 7237.5E | Soil  | 0.5   | 23.3  | 11.1  | 94    | 0.2   | 21.7  | 10.4  | 798   | 2.53  | 14.4  | 0.9   | 2.2   | 3.4   | 28    | 0.2   | 0.4   | 0.3   | 54    | 0.25  | 0.182 |       |  |
| L4350N 7250E   | Soil  | 0.6   | 19.3  | 8.6   | 71    | 0.1   | 17.6  | 8.1   | 425   | 2.26  | 13.5  | 0.6   | 3.1   | 2.2   | 21    | 0.1   | 0.3   | 0.2   | 47    | 0.21  | 0.050 |       |  |
| L4350N 7262.5E | Soil  | 0.3   | 9.2   | 3.9   | 41    | <0.1  | 5.7   | 3.0   | 560   | 0.92  | 5.6   | 0.2   | 1.1   | 0.8   | 13    | 0.1   | 0.1   | <0.1  | 21    | 0.12  | 0.048 |       |  |
| L4350N 7275E   | Soil  | 0.4   | 14.4  | 10.6  | 111   | <0.1  | 13.7  | 6.5   | 915   | 1.74  | 17.5  | 0.4   | 1.4   | 2.1   | 19    | 0.5   | 0.3   | 0.2   | 35    | 0.19  | 0.162 |       |  |
| L4350N 7287.5E | Soil  | 0.5   | 15.0  | 12.3  | 88    | 0.2   | 13.2  | 6.4   | 833   | 1.95  | 15.7  | 0.6   | 1.5   | 2.7   | 25    | 0.2   | 0.2   | 0.2   | 35    | 0.20  | 0.269 |       |  |
| L4350N 7300E   | Soil  | 0.6   | 14.6  | 13.8  | 86    | <0.1  | 12.8  | 6.1   | 857   | 1.97  | 15.8  | 0.5   | 2.8   | 2.6   | 26    | 0.2   | 0.3   | 0.3   | 37    | 0.21  | 0.170 |       |  |
| L4350N 7312.5E | Soil  | 0.4   | 13.5  | 13.8  | 55    | <0.1  | 10.0  | 4.6   | 615   | 1.60  | 9.9   | 0.4   | 2.3   | 2.5   | 22    | 0.2   | 0.2   | 0.2   | 34    | 0.18  | 0.107 |       |  |
| L4350N 7325E   | Soil  | 0.4   | 16.9  | 15.9  | 95    | 0.1   | 11.0  | 5.7   | 825   | 1.77  | 15.0  | 0.4   | 2.1   | 2.5   | 32    | 0.3   | 0.3   | 0.3   | 33    | 0.30  | 0.147 |       |  |
| L4350N 7337.5E | Soil  | 0.6   | 26.6  | 10.4  | 56    | <0.1  | 11.3  | 6.4   | 848   | 1.58  | 15.9  | 0.5   | 7.0   | 1.5   | 29    | 0.4   | 0.3   | 0.4   | 35    | 0.27  | 0.130 |       |  |
| L4350N 7350E   | Soil  | 0.6   | 38.2  | 10.9  | 65    | <0.1  | 21.2  | 9.6   | 593   | 2.27  | 21.1  | 0.7   | 3.6   | 3.3   | 33    | 0.2   | 0.3   | 0.4   | 52    | 0.29  | 0.104 |       |  |
| L4350N 7362.5E | Soil  | 0.4   | 21.8  | 8.2   | 41    | <0.1  | 12.4  | 5.6   | 700   | 1.44  | 12.2  | 0.6   | 2.5   | 1.9   | 31    | 0.2   | 0.2   | 0.2   | 34    | 0.25  | 0.078 |       |  |
| L4350N 7375E   | Soil  | 0.5   | 27.2  | 7.4   | 62    | <0.1  | 17.3  | 7.7   | 405   | 1.81  | 11.1  | 0.7   | 5.7   | 2.6   | 32    | 0.1   | 0.2   | 0.2   | 38    | 0.27  | 0.059 |       |  |
| L4350N 7387.5E | Soil  | 0.5   | 29.7  | 11.7  | 73    | <0.1  | 19.3  | 8.0   | 550   | 2.06  | 15.2  | 1.1   | 3.2   | 3.0   | 35    | 0.2   | 0.3   | 0.2   | 46    | 0.26  | 0.100 |       |  |
| L4350N 7400E   | Soil  | 0.8   | 43.6  | 16.3  | 97    | 0.1   | 25.7  | 10.6  | 540   | 2.83  | 28.6  | 2.7   | 6.5   | 5.2   | 41    | 0.3   | 0.3   | 0.3   | 58    | 0.30  | 0.080 |       |  |
| L4350N 7412.5E | Soil  | 0.6   | 15.7  | 8.8   | 83    | <0.1  | 13.3  | 6.2   | 595   | 1.72  | 8.4   | 0.4   | 13.5  | 2.4   | 30    | 0.2   | 0.2   | 0.2   | 33    | 0.22  | 0.070 |       |  |
| L4350N 7425E   | Soil  | 0.4   | 19.8  | 8.8   | 64    | <0.1  | 15.8  | 7.2   | 461   | 1.90  | 14.0  | 0.6   | 20.2  | 2.9   | 45    | 0.2   | 0.2   | 0.2   | 34    | 0.25  | 0.142 |       |  |
| L4350N 7437.5E | Soil  | 0.5   | 17.9  | 5.7   | 54    | <0.1  | 14.2  | 6.4   | 288   | 1.72  | 10.7  | 0.3   | 9.5   | 2.6   | 22    | 0.1   | 0.2   | 0.1   | 54    | 0.20  | 0.094 |       |  |
| L4350N 7450E   | Soil  | 0.3   | 16.4  | 7.1   | 59    | 0.1   | 12.4  | 4.8   | 437   | 1.31  | 16.3  | 0.3   | 2.5   | 2.0   | 30    | 0.1   | 0.2   | 0.2   | 33    | 0.20  | 0.225 |       |  |
| L4350N 7462.5E | Soil  | 0.3   | 15.9  | 5.8   | 41    | <0.1  | 13.5  | 5.1   | 292   | 1.32  | 11.3  | 0.3   | 3.1   | 2.1   | 26    | <0.1  | 0.1   | 0.1   | 34    | 0.17  | 0.141 |       |  |
| L4350N 7475E   | Soil  | 0.3   | 17.6  | 5.2   | 47    | <0.1  | 15.0  | 5.2   | 297   | 1.46  | 12.1  | 0.4   | 2.9   | 2.7   | 22    | 0.1   | 0.1   | 0.1   | 36    | 0.19  | 0.151 |       |  |
| L4350N 7487.5E | Soil  | 0.4   | 19.4  | 6.3   | 44    | <0.1  | 14.4  | 6.0   | 313   | 1.54  | 17.3  | 0.4   | 4.0   | 2.7   | 24    | 0.2   | 0.1   | 0.2   | 37    | 0.20  | 0.095 |       |  |
| L4350N 7500E   | Soil  | 0.5   | 22.6  | 7.3   | 53    | <0.1  | 16.1  | 6.9   | 257   | 1.70  | 45.5  | 0.6   | 3.5   | 2.5   | 21    | 0.1   | 0.2   | 0.3   | 43    | 0.19  | 0.064 |       |  |

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Report Date: January 15, 2008

Page: 6 of 11 Part 2

CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L4400N 7650E   | Soil  | 18    | 40    | 0.50  | 172   | 0.099 | 2     | 2.16  | 0.030 | 0.15  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| L4350N 7150E   | Soil  | 7     | 42    | 0.44  | 192   | 0.095 | 1     | 1.58  | 0.026 | 0.11  | 0.1   | 0.03  | 2.4   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7162.5E | Soil  | 7     | 59    | 0.59  | 230   | 0.108 | 1     | 1.61  | 0.024 | 0.12  | 0.1   | 0.01  | 2.9   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7175E   | Soil  | 10    | 35    | 0.35  | 159   | 0.101 | 2     | 2.03  | 0.028 | 0.11  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 6     | <0.5  |
| L4350N 7187.5E | Soil  | 9     | 43    | 0.48  | 189   | 0.103 | 2     | 1.90  | 0.028 | 0.12  | 0.1   | 0.02  | 3.0   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7200E   | Soil  | 9     | 25    | 0.33  | 168   | 0.090 | 1     | 1.60  | 0.025 | 0.11  | 0.2   | 0.03  | 2.4   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7212.5E | Soil  | 6     | 20    | 0.27  | 193   | 0.077 | 2     | 1.37  | 0.029 | 0.10  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5  |
| L4350N 7225E   | Soil  | 13    | 35    | 0.47  | 199   | 0.104 | 2     | 2.14  | 0.019 | 0.11  | 0.2   | 0.03  | 3.3   | 0.1   | <0.05 | 6     | <0.5  |
| L4350N 7237.5E | Soil  | 19    | 33    | 0.49  | 169   | 0.120 | 3     | 2.39  | 0.019 | 0.11  | 0.2   | 0.04  | 3.4   | 0.1   | <0.05 | 8     | <0.5  |
| L4350N 7250E   | Soil  | 11    | 26    | 0.37  | 146   | 0.090 | 2     | 1.94  | 0.022 | 0.09  | 0.1   | 0.02  | 2.3   | <0.1  | <0.05 | 6     | <0.5  |
| L4350N 7262.5E | Soil  | 4     | 8     | 0.12  | 109   | 0.055 | <1    | 0.80  | 0.029 | 0.05  | <0.1  | 0.01  | 1.0   | <0.1  | <0.05 | 3     | <0.5  |
| L4350N 7275E   | Soil  | 7     | 18    | 0.26  | 244   | 0.092 | <1    | 1.67  | 0.019 | 0.10  | 0.2   | 0.03  | 2.0   | 0.1   | <0.05 | 5     | <0.5  |
| L4350N 7287.5E | Soil  | 12    | 19    | 0.29  | 215   | 0.115 | 2     | 2.23  | 0.020 | 0.11  | 0.2   | 0.03  | 2.0   | 0.1   | <0.05 | 8     | <0.5  |
| L4350N 7300E   | Soil  | 10    | 19    | 0.33  | 278   | 0.118 | 2     | 1.89  | 0.022 | 0.11  | 0.2   | 0.03  | 1.8   | <0.1  | <0.05 | 8     | <0.5  |
| L4350N 7312.5E | Soil  | 11    | 17    | 0.30  | 191   | 0.087 | 1     | 1.29  | 0.025 | 0.11  | <0.1  | 0.02  | 1.5   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7325E   | Soil  | 20    | 18    | 0.28  | 309   | 0.090 | 3     | 1.39  | 0.021 | 0.14  | 0.1   | 0.03  | 1.7   | <0.1  | <0.05 | 6     | <0.5  |
| L4350N 7337.5E | Soil  | 10    | 18    | 0.26  | 167   | 0.078 | 2     | 1.37  | 0.020 | 0.09  | 0.2   | 0.03  | 1.5   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7350E   | Soil  | 16    | 32    | 0.45  | 153   | 0.106 | 3     | 1.88  | 0.016 | 0.12  | 0.2   | 0.03  | 2.7   | 0.1   | <0.05 | 6     | <0.5  |
| L4350N 7362.5E | Soil  | 8     | 20    | 0.28  | 170   | 0.076 | 2     | 1.26  | 0.024 | 0.10  | <0.1  | 0.02  | 1.7   | <0.1  | <0.05 | 4     | <0.5  |
| L4350N 7375E   | Soil  | 10    | 28    | 0.38  | 134   | 0.097 | 2     | 1.58  | 0.026 | 0.11  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7387.5E | Soil  | 11    | 30    | 0.42  | 174   | 0.096 | 2     | 1.87  | 0.018 | 0.13  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 5     | <0.5  |
| L4350N 7400E   | Soil  | 34    | 40    | 0.60  | 239   | 0.117 | 2     | 2.65  | 0.019 | 0.22  | 0.2   | 0.02  | 5.2   | 0.2   | <0.05 | 7     | <0.5  |
| L4350N 7412.5E | Soil  | 7     | 23    | 0.34  | 174   | 0.075 | 2     | 1.75  | 0.021 | 0.17  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L4350N 7425E   | Soil  | 11    | 24    | 0.37  | 225   | 0.095 | 1     | 2.11  | 0.026 | 0.16  | <0.1  | 0.02  | 2.7   | 0.1   | <0.05 | 6     | <0.5  |
| L4350N 7437.5E | Soil  | 8     | 34    | 0.31  | 138   | 0.064 | 1     | 0.83  | 0.017 | 0.11  | 0.1   | <0.01 | 2.1   | <0.1  | <0.05 | 3     | <0.5  |
| L4350N 7450E   | Soil  | 7     | 19    | 0.18  | 200   | 0.069 | 2     | 1.25  | 0.017 | 0.07  | 0.1   | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5  |
| L4350N 7462.5E | Soil  | 7     | 19    | 0.19  | 168   | 0.061 | 1     | 1.10  | 0.017 | 0.08  | 0.1   | <0.01 | 1.7   | <0.1  | <0.05 | 3     | <0.5  |
| L4350N 7475E   | Soil  | 9     | 21    | 0.21  | 141   | 0.067 | 1     | 1.28  | 0.021 | 0.08  | 0.1   | 0.01  | 2.1   | <0.1  | <0.05 | 4     | <0.5  |
| L4350N 7487.5E | Soil  | 9     | 22    | 0.21  | 140   | 0.072 | <1    | 1.32  | 0.018 | 0.09  | 0.1   | 0.01  | 2.3   | <0.1  | <0.05 | 4     | <0.5  |
| L4350N 7500E   | Soil  | 9     | 26    | 0.28  | 108   | 0.082 | 1     | 1.60  | 0.020 | 0.09  | 0.2   | 0.01  | 2.2   | <0.1  | <0.05 | 4     | <0.5  |

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Project: 41

Report Date: January 15, 2008

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**CERTIFICATE OF ANALYSIS**

**VAN07002982.1**

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4350N 7512.5E | Soil  | 0.4   | 24.0  | 9.0   | 52    | <0.1  | 15.4  | 6.1   | 346   | 1.60  | 42.1  | 0.6   | 2.8   | 2.5   | 35    | 0.2   | 0.2   | 0.4   | 37    | 0.33  | 0.071 |
| L4350N 7525E   | Soil  | 0.5   | 24.3  | 8.0   | 55    | <0.1  | 17.2  | 6.8   | 271   | 1.60  | 48.9  | 0.6   | 3.6   | 3.0   | 25    | <0.1  | 0.2   | 0.5   | 34    | 0.19  | 0.040 |
| L4350N 7537.5E | Soil  | 0.5   | 24.5  | 8.4   | 50    | 0.1   | 16.5  | 6.9   | 271   | 1.57  | 47.9  | 0.9   | 4.9   | 2.6   | 35    | 0.2   | 0.2   | 0.5   | 34    | 0.27  | 0.040 |
| L4350N 7550E   | Soil  | 0.4   | 17.4  | 4.8   | 35    | <0.1  | 13.3  | 5.4   | 235   | 1.37  | 20.5  | 0.3   | 2.2   | 1.9   | 27    | <0.1  | 0.2   | 0.2   | 33    | 0.30  | 0.049 |
| L4350N 7562.5E | Soil  | 0.4   | 17.3  | 6.9   | 52    | <0.1  | 13.2  | 5.5   | 434   | 1.43  | 12.7  | 0.4   | 7.6   | 2.0   | 23    | 0.1   | 0.2   | 0.2   | 34    | 0.23  | 0.082 |
| L4350N 7575E   | Soil  | 0.4   | 18.4  | 7.0   | 107   | 0.1   | 18.0  | 6.4   | 509   | 1.63  | 9.1   | 0.4   | 2.3   | 2.6   | 36    | 0.6   | 0.2   | 0.2   | 46    | 0.59  | 0.143 |
| L4350N 7587.5E | Soil  | 0.4   | 16.7  | 7.7   | 83    | <0.1  | 14.3  | 5.5   | 538   | 1.55  | 14.8  | 0.6   | 2.7   | 2.4   | 23    | 0.4   | 0.2   | 0.3   | 39    | 0.22  | 0.167 |
| L4350N 7600E   | Soil  | 0.5   | 17.2  | 9.0   | 139   | <0.1  | 23.8  | 6.0   | 546   | 1.89  | 20.2  | 0.6   | 5.3   | 2.5   | 35    | 0.8   | 0.3   | 0.3   | 52    | 0.32  | 0.202 |
| L4350N 7612.5E | Soil  | 0.5   | 38.0  | 9.5   | 81    | 0.1   | 25.3  | 7.4   | 382   | 2.06  | 16.9  | 0.6   | 11.7  | 3.3   | 25    | 0.5   | 0.3   | 0.2   | 51    | 0.31  | 0.095 |
| L4350N 7625E   | Soil  | 0.5   | 25.3  | 7.7   | 56    | <0.1  | 27.9  | 6.3   | 408   | 1.76  | 13.8  | 0.5   | 4.0   | 2.5   | 29    | 0.3   | 0.2   | 0.2   | 45    | 0.33  | 0.119 |
| L4350N 7637.5E | Soil  | 0.3   | 22.0  | 7.1   | 52    | <0.1  | 18.4  | 5.8   | 482   | 1.53  | 12.1  | 0.4   | 4.2   | 2.2   | 21    | 0.2   | 0.2   | 0.2   | 39    | 0.22  | 0.096 |
| L4350N 7650E   | Soil  | 0.4   | 29.2  | 8.7   | 51    | 0.1   | 21.8  | 6.5   | 386   | 1.82  | 18.2  | 0.7   | 6.2   | 3.5   | 29    | 0.2   | 0.2   | 0.2   | 44    | 0.28  | 0.115 |
| L4300N 7150E   | Soil  | 0.5   | 24.9  | 6.2   | 56    | 0.1   | 17.7  | 6.0   | 340   | 1.51  | 21.0  | 0.4   | 2.7   | 2.2   | 14    | 0.2   | 0.2   | 0.1   | 33    | 0.14  | 0.127 |
| L4300N 7162.5E | Soil  | 0.5   | 24.6  | 6.1   | 66    | <0.1  | 16.9  | 5.8   | 463   | 1.47  | 13.4  | 0.4   | 2.4   | 2.2   | 19    | <0.1  | 0.2   | 0.1   | 32    | 0.19  | 0.158 |
| L4300N 7175E   | Soil  | 0.6   | 43.5  | 6.9   | 61    | 0.1   | 26.2  | 7.5   | 351   | 1.89  | 17.9  | 0.7   | 4.0   | 3.1   | 18    | 0.2   | 0.2   | 0.2   | 45    | 0.17  | 0.070 |
| L4300N 7187.5E | Soil  | 0.6   | 17.0  | 10.0  | 92    | <0.1  | 16.6  | 5.9   | 363   | 1.88  | 14.5  | 0.4   | 2.8   | 3.2   | 27    | 0.1   | 0.2   | 0.2   | 40    | 0.23  | 0.193 |
| L4300N 7200E   | Soil  | 0.6   | 36.5  | 9.5   | 77    | 0.1   | 26.3  | 8.6   | 369   | 2.38  | 16.6  | 0.9   | 6.5   | 3.6   | 31    | 0.2   | 0.2   | 0.2   | 53    | 0.24  | 0.200 |
| L4300N 7212.5E | Soil  | 0.7   | 15.9  | 8.8   | 87    | <0.1  | 14.8  | 5.8   | 687   | 1.67  | 9.9   | 0.5   | 3.0   | 2.7   | 27    | 0.2   | 0.2   | 0.2   | 37    | 0.21  | 0.281 |
| L4300N 7225E   | Soil  | 0.4   | 28.8  | 6.7   | 45    | <0.1  | 18.3  | 6.8   | 312   | 1.72  | 12.5  | 0.8   | 1.4   | 3.0   | 18    | <0.1  | 0.2   | 0.1   | 41    | 0.17  | 0.076 |
| L4300N 7237.5E | Soil  | 0.5   | 31.9  | 6.7   | 46    | 0.1   | 20.0  | 7.4   | 370   | 1.82  | 16.5  | 0.6   | 3.0   | 2.8   | 25    | 0.1   | 0.2   | 0.3   | 43    | 0.22  | 0.161 |
| L4300N 7250E   | Soil  | 0.5   | 24.7  | 9.0   | 90    | 0.1   | 20.0  | 7.4   | 559   | 1.90  | 12.6  | 0.5   | 8.4   | 3.2   | 20    | 0.3   | 0.2   | 1.1   | 45    | 0.19  | 0.114 |
| L4300N 7312.5E | Soil  | 0.5   | 20.8  | 13.3  | 59    | <0.1  | 10.9  | 5.3   | 856   | 1.36  | 15.9  | 0.3   | 1.9   | 0.4   | 26    | 0.5   | 0.3   | 0.4   | 34    | 0.26  | 0.073 |
| L4300N 7325E   | Soil  | 0.6   | 20.2  | 12.7  | 44    | <0.1  | 8.4   | 5.8   | 1014  | 1.31  | 17.1  | 0.4   | 2.3   | 0.5   | 28    | 0.6   | 0.4   | 0.4   | 35    | 0.32  | 0.116 |
| L4300N 7262.5E | Soil  | 0.5   | 31.1  | 9.9   | 99    | 0.1   | 18.1  | 11.6  | 538   | 1.74  | 14.7  | 0.5   | 17.6  | 2.2   | 17    | 0.4   | 0.2   | 3.3   | 44    | 0.18  | 0.092 |
| L4300N 7275E   | Soil  | 0.7   | 20.1  | 66.9  | 198   | 0.9   | 12.8  | 27.4  | 1095  | 2.18  | 28.3  | 0.4   | 30.3  | 1.4   | 18    | 0.5   | 0.3   | 9.3   | 59    | 0.20  | 0.095 |
| L4300N 7287.5E | Soil  | 0.7   | 36.5  | 46.9  | 136   | 0.4   | 11.4  | 10.8  | 668   | 1.92  | 21.3  | 0.5   | 15.4  | 0.8   | 12    | 0.8   | 0.5   | 4.6   | 49    | 0.12  | 0.084 |
| L4300N 7300E   | Soil  | 0.4   | 22.6  | 11.7  | 51    | <0.1  | 16.3  | 7.0   | 435   | 1.65  | 23.2  | 0.5   | 4.9   | 2.2   | 16    | 0.3   | 0.5   | 0.9   | 45    | 0.18  | 0.063 |
| L4300N 7337.5E | Soil  | 0.7   | 26.0  | 12.8  | 78    | <0.1  | 15.9  | 10.6  | 811   | 2.47  | 22.3  | 0.7   | 3.2   | 3.0   | 24    | 0.2   | 0.3   | 0.4   | 56    | 0.18  | 0.208 |
| L4300N 7350E   | Soil  | 0.5   | 33.8  | 9.5   | 56    | <0.1  | 22.1  | 7.9   | 287   | 2.27  | 18.3  | 0.7   | 10.6  | 4.1   | 29    | 0.1   | 0.3   | 0.3   | 53    | 0.27  | 0.180 |
| L4300N 7362.5E | Soil  | 0.4   | 28.3  | 6.3   | 76    | <0.1  | 18.0  | 6.7   | 260   | 1.62  | 13.1  | 0.3   | 2.8   | 3.1   | 23    | 0.2   | 0.2   | 0.1   | 37    | 0.18  | 0.151 |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4350N 7512.5E | Soil  | 12    | 23    | 0.26  | 131   | 0.082 | 2     | 1.53  | 0.025 | 0.09  | 0.1   | 0.02  | 2.3   | <0.1  | <0.05 | 4     | <0.5 |
| L4350N 7525E   | Soil  | 10    | 22    | 0.27  | 127   | 0.094 | 2     | 1.87  | 0.022 | 0.08  | 0.1   | <0.01 | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L4350N 7537.5E | Soil  | 13    | 22    | 0.27  | 126   | 0.094 | 1     | 1.82  | 0.027 | 0.09  | 0.1   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4350N 7550E   | Soil  | 6     | 19    | 0.21  | 116   | 0.074 | 2     | 1.25  | 0.019 | 0.06  | 0.1   | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5 |
| L4350N 7562.5E | Soil  | 7     | 20    | 0.21  | 166   | 0.070 | 2     | 1.20  | 0.022 | 0.08  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 4     | <0.5 |
| L4350N 7575E   | Soil  | 10    | 24    | 0.41  | 198   | 0.069 | 3     | 1.44  | 0.022 | 0.10  | 0.1   | 0.02  | 2.8   | 0.1   | <0.05 | 4     | <0.5 |
| L4350N 7587.5E | Soil  | 8     | 20    | 0.27  | 154   | 0.082 | <1    | 1.73  | 0.020 | 0.08  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L4350N 7600E   | Soil  | 9     | 25    | 0.45  | 188   | 0.074 | 2     | 1.84  | 0.018 | 0.09  | 0.1   | 0.02  | 2.4   | 0.2   | <0.05 | 5     | <0.5 |
| L4350N 7612.5E | Soil  | 13    | 29    | 0.44  | 157   | 0.077 | 2     | 1.89  | 0.022 | 0.10  | 0.2   | 0.02  | 3.2   | 0.2   | <0.05 | 6     | 0.6  |
| L4350N 7625E   | Soil  | 10    | 30    | 0.43  | 131   | 0.076 | 1     | 1.64  | 0.025 | 0.09  | 0.1   | <0.01 | 2.6   | 0.1   | <0.05 | 4     | <0.5 |
| L4350N 7637.5E | Soil  | 9     | 23    | 0.30  | 121   | 0.072 | 1     | 1.33  | 0.026 | 0.09  | 0.1   | <0.01 | 2.3   | <0.1  | <0.05 | 4     | <0.5 |
| L4350N 7650E   | Soil  | 16    | 27    | 0.36  | 133   | 0.088 | 1     | 1.93  | 0.025 | 0.11  | 0.1   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L4300N 7150E   | Soil  | 7     | 18    | 0.22  | 165   | 0.080 | 2     | 1.73  | 0.021 | 0.07  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7162.5E | Soil  | 9     | 18    | 0.23  | 182   | 0.077 | 2     | 1.60  | 0.022 | 0.08  | 0.2   | 0.01  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7175E   | Soil  | 10    | 26    | 0.32  | 179   | 0.103 | 1     | 2.08  | 0.024 | 0.11  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4300N 7187.5E | Soil  | 9     | 25    | 0.34  | 235   | 0.106 | 1     | 1.65  | 0.021 | 0.12  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 6     | <0.5 |
| L4300N 7200E   | Soil  | 13    | 33    | 0.45  | 202   | 0.125 | 2     | 2.77  | 0.020 | 0.11  | 0.2   | 0.03  | 2.8   | 0.1   | <0.05 | 8     | 0.5  |
| L4300N 7212.5E | Soil  | 8     | 18    | 0.25  | 297   | 0.100 | 2     | 2.11  | 0.020 | 0.08  | 0.1   | 0.02  | 2.1   | <0.1  | <0.05 | 6     | <0.5 |
| L4300N 7225E   | Soil  | 11    | 25    | 0.29  | 160   | 0.090 | <1    | 1.77  | 0.022 | 0.08  | 0.1   | 0.01  | 2.6   | <0.1  | <0.05 | 5     | 0.6  |
| L4300N 7237.5E | Soil  | 9     | 27    | 0.33  | 187   | 0.097 | 2     | 1.87  | 0.022 | 0.12  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 6     | <0.5 |
| L4300N 7250E   | Soil  | 10    | 26    | 0.37  | 266   | 0.089 | 1     | 1.65  | 0.020 | 0.13  | 0.1   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7312.5E | Soil  | 6     | 14    | 0.21  | 163   | 0.054 | 1     | 1.16  | 0.016 | 0.07  | <0.1  | 0.02  | 1.1   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7325E   | Soil  | 8     | 12    | 0.22  | 151   | 0.055 | 2     | 1.20  | 0.018 | 0.08  | 0.1   | 0.02  | 1.7   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7262.5E | Soil  | 9     | 24    | 0.31  | 186   | 0.084 | 2     | 1.57  | 0.019 | 0.08  | 0.1   | 0.02  | 2.3   | 0.1   | <0.05 | 5     | <0.5 |
| L4300N 7275E   | Soil  | 6     | 18    | 0.42  | 146   | 0.081 | 2     | 1.52  | 0.018 | 0.08  | 0.2   | 0.03  | 3.0   | <0.1  | <0.05 | 8     | <0.5 |
| L4300N 7287.5E | Soil  | 6     | 17    | 0.29  | 96    | 0.079 | <1    | 1.40  | 0.014 | 0.06  | 0.1   | 0.05  | 1.8   | <0.1  | <0.05 | 7     | <0.5 |
| L4300N 7300E   | Soil  | 8     | 21    | 0.28  | 164   | 0.083 | 1     | 1.55  | 0.018 | 0.06  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L4300N 7337.5E | Soil  | 13    | 22    | 0.43  | 232   | 0.091 | 1     | 2.11  | 0.018 | 0.09  | 0.2   | 0.02  | 3.9   | <0.1  | <0.05 | 8     | <0.5 |
| L4300N 7350E   | Soil  | 12    | 30    | 0.44  | 204   | 0.096 | 2     | 2.09  | 0.018 | 0.12  | 0.2   | 0.01  | 3.6   | <0.1  | <0.05 | 6     | <0.5 |
| L4300N 7362.5E | Soil  | 11    | 24    | 0.29  | 221   | 0.074 | 2     | 1.40  | 0.018 | 0.08  | 0.1   | 0.01  | 2.5   | <0.1  | <0.05 | 4     | <0.5 |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15 Mo ppm | 1DX15 Cu ppm | 1DX15 Pb ppm | 1DX15 Zn ppm | 1DX15 Ag ppm | 1DX15 Ni ppm | 1DX15 Co ppm | 1DX15 Mn ppm | 1DX15 Fe % | 1DX15 As ppm | 1DX15 U ppm | 1DX15 Au ppb | 1DX15 Th ppm | 1DX15 Sr ppm | 1DX15 Cd ppm | 1DX15 Sb ppm | 1DX15 Bi ppm | 1DX15 V ppm | 1DX15 Ca % | 1DX15 P % |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|-----------|
|                         | 0.1          | 0.1          | 0.1          | 1            | 0.1          | 0.1          | 0.1          | 1            | 0.01       | 0.5          | 0.1         | 0.5          | 0.1          | 1            | 0.1          | 0.1          | 0.1          | 2           | 0.01       | 0.001     |
| L4300N 7375E Soil       | 0.4          | 32.9         | 6.4          | 51           | 0.1          | 20.3         | 6.9          | 243          | 1.68       | 20.5         | 0.5         | 4.3          | 3.1          | 20           | 0.2          | 0.2          | 0.2          | 37          | 0.18       | 0.166     |
| L4300N 7387.5E Soil     | 0.5          | 23.4         | 5.8          | 57           | 0.1          | 19.7         | 6.9          | 393          | 1.66       | 12.5         | 0.3         | 9.1          | 2.1          | 22           | 0.1          | 0.1          | 0.1          | 34          | 0.17       | 0.132     |
| L4300N 7400E Soil       | 0.4          | 21.9         | 5.3          | 54           | 0.2          | 17.4         | 5.7          | 273          | 1.41       | 10.7         | 0.3         | 1.2          | 2.3          | 20           | 0.1          | 0.1          | 0.1          | 30          | 0.16       | 0.175     |
| L4300N 7412.5E Soil     | 0.4          | 19.1         | 5.4          | 47           | 0.2          | 16.3         | 5.5          | 394          | 1.35       | 11.7         | 0.4         | 1.6          | 2.0          | 23           | <0.1         | 0.1          | 0.1          | 27          | 0.15       | 0.174     |
| L4300N 7425E Soil       | 0.6          | 34.5         | 5.8          | 49           | 0.2          | 19.8         | 7.2          | 202          | 1.79       | 16.1         | 0.6         | 3.2          | 2.9          | 22           | 0.1          | 0.1          | 0.1          | 41          | 0.18       | 0.092     |
| L4300N 7437.5E Soil     | 0.5          | 27.0         | 6.1          | 56           | 0.2          | 19.3         | 7.0          | 309          | 1.72       | 19.0         | 0.6         | 2.7          | 2.7          | 26           | 0.2          | 0.2          | 0.2          | 35          | 0.17       | 0.207     |
| L4300N 7450E Soil       | 0.4          | 24.6         | 6.3          | 87           | 0.1          | 17.5         | 6.6          | 318          | 1.74       | 18.9         | 0.6         | 2.0          | 2.6          | 24           | 0.3          | 0.2          | 0.2          | 34          | 0.16       | 0.122     |
| L4300N 7462.5E Soil     | 0.6          | 17.4         | 6.4          | 191          | <0.1         | 13.0         | 6.4          | 882          | 1.48       | 13.4         | 0.3         | <0.5         | 1.2          | 25           | 0.8          | 0.1          | 0.2          | 28          | 0.13       | 0.199     |
| L4300N 7475E Soil       | 0.4          | 22.8         | 3.5          | 42           | <0.1         | 15.4         | 6.7          | 186          | 1.67       | 11.5         | 0.3         | 3.8          | 2.3          | 17           | 0.1          | 0.2          | <0.1         | 42          | 0.17       | 0.045     |
| L4300N 7487.5E Soil     | 0.4          | 21.3         | 5.3          | 73           | 0.1          | 17.6         | 6.4          | 327          | 1.62       | 15.1         | 0.4         | 1.4          | 2.6          | 25           | 0.3          | 0.1          | 0.1          | 32          | 0.22       | 0.134     |
| L4300N 7500E Soil       | 0.4          | 52.9         | 5.9          | 64           | 0.2          | 20.7         | 7.5          | 249          | 1.85       | 33.2         | 0.9         | 5.2          | 2.9          | 35           | 0.3          | 0.2          | 0.2          | 40          | 0.27       | 0.045     |
| L4300N 7512.5E Soil     | 0.6          | 45.4         | 6.6          | 54           | <0.1         | 26.1         | 9.9          | 267          | 2.21       | 29.0         | 0.8         | 6.0          | 3.8          | 33           | 0.1          | 0.2          | 0.1          | 54          | 0.28       | 0.036     |
| L4300N 7525E Soil       | 0.3          | 25.5         | 4.1          | 28           | <0.1         | 12.4         | 5.2          | 159          | 1.53       | 9.4          | 0.4         | 2.8          | 2.2          | 18           | <0.1         | 0.2          | <0.1         | 39          | 0.18       | 0.035     |
| L4300N 7537.5E Soil     | 0.3          | 17.2         | 5.3          | 83           | 0.1          | 17.0         | 5.6          | 376          | 1.45       | 11.8         | 0.3         | 42.6         | 2.1          | 26           | <0.1         | 0.1          | 0.1          | 28          | 0.20       | 0.250     |
| L4300N 7575E Soil       | 0.5          | 28.2         | 7.2          | 55           | <0.1         | 16.7         | 6.9          | 369          | 1.69       | 13.2         | 0.5         | 3.3          | 2.7          | 25           | 0.2          | 0.2          | 0.1          | 42          | 0.25       | 0.099     |
| L4300N 7587.5E Soil     | 0.4          | 20.8         | 5.9          | 63           | <0.1         | 20.1         | 6.7          | 365          | 1.83       | 11.0         | 0.3         | 1.7          | 2.9          | 21           | 0.2          | 0.1          | 0.2          | 40          | 0.20       | 0.150     |
| L4300N 7612.5E Soil     | 0.6          | 22.3         | 7.3          | 105          | 0.1          | 19.1         | 6.5          | 497          | 1.94       | 10.1         | 0.5         | 3.4          | 3.2          | 20           | 0.5          | 0.2          | 0.2          | 40          | 0.20       | 0.146     |
| L4300N 7625E Soil       | 0.5          | 20.6         | 7.7          | 99           | 0.1          | 20.5         | 6.5          | 361          | 1.90       | 11.7         | 0.5         | 1.9          | 3.2          | 25           | 0.2          | 0.2          | 0.2          | 38          | 0.22       | 0.216     |
| L4300N 7637.5E Soil     | 0.5          | 25.0         | 8.4          | 55           | 0.1          | 13.8         | 5.8          | 438          | 1.66       | 10.4         | 0.7         | 2.0          | 2.8          | 24           | 0.2          | 0.2          | 0.1          | 35          | 0.21       | 0.145     |
| L4300N 7650E Soil       | 0.3          | 17.7         | 15.5         | 60           | <0.1         | 11.4         | 5.1          | 617          | 1.35       | 8.9          | 0.3         | 4.7          | 2.5          | 32           | 0.3          | 0.2          | 0.2          | 28          | 0.32       | 0.107     |
| L4250N 7150E Soil       | 0.4          | 19.6         | 5.4          | 75           | 0.1          | 16.1         | 5.1          | 515          | 1.35       | 17.3         | 0.4         | 0.9          | 1.6          | 20           | 0.1          | 0.2          | 0.1          | 26          | 0.20       | 0.225     |
| L4250N 7162.5E Soil     | 0.5          | 20.7         | 6.0          | 52           | 0.1          | 16.9         | 5.3          | 366          | 1.40       | 11.9         | 0.4         | 4.4          | 1.9          | 16           | <0.1         | 0.2          | 0.1          | 29          | 0.13       | 0.156     |
| L4250N 7175E Soil       | 0.3          | 8.7          | 8.3          | 54           | <0.1         | 6.1          | 3.5          | 594          | 0.98       | 5.5          | 0.3         | 0.6          | 1.1          | 20           | 0.1          | 0.1          | 0.2          | 23          | 0.16       | 0.103     |
| L4250N 7187.5E Soil     | 0.4          | 10.3         | 9.8          | 64           | <0.1         | 6.9          | 3.1          | 490          | 1.05       | 15.7         | 0.4         | 0.5          | 1.6          | 19           | 0.2          | 0.2          | 0.2          | 16          | 0.15       | 0.311     |
| L4250N 7200E Soil       | 0.5          | 12.3         | 8.2          | 69           | 0.1          | 11.1         | 4.7          | 383          | 1.37       | 10.8         | 0.4         | 0.9          | 1.9          | 21           | 0.2          | 0.2          | 0.2          | 22          | 0.16       | 0.338     |
| L4250N 7212.5E Soil     | 0.4          | 24.6         | 6.2          | 57           | <0.1         | 18.7         | 6.6          | 347          | 1.61       | 10.4         | 0.7         | 2.3          | 2.6          | 21           | 0.1          | 0.2          | 0.1          | 36          | 0.23       | 0.113     |
| L4250N 7225E Soil       | 0.3          | 22.9         | 5.6          | 56           | 0.1          | 19.4         | 6.2          | 349          | 1.57       | 9.4          | 0.3         | 0.6          | 1.3          | 21           | <0.1         | 0.2          | 0.1          | 32          | 0.17       | 0.075     |
| L4250N 7237.5E Soil     | 0.4          | 21.7         | 6.4          | 47           | <0.1         | 13.7         | 5.5          | 331          | 1.27       | 13.4         | 0.3         | 1.8          | 1.6          | 16           | <0.1         | 0.1          | 0.2          | 28          | 0.15       | 0.104     |
| L4250N 7250E Soil       | 0.3          | 9.2          | 6.8          | 61           | <0.1         | 4.5          | 3.7          | 671          | 0.90       | 7.8          | 0.1         | 1.9          | 0.6          | 15           | 0.4          | 0.2          | 0.2          | 22          | 0.19       | 0.148     |
| L4250N 7262.5E Soil     | 0.5          | 17.5         | 9.3          | 53           | <0.1         | 9.8          | 6.7          | 930          | 1.43       | 12.3         | 0.3         | 3.4          | 0.4          | 15           | 0.2          | 0.3          | 0.3          | 39          | 0.14       | 0.098     |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15  | 1DX15  | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15  | 1DX15  | 1DX15 | 1DX15  | 1DX15  |      |
|-------------------------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|--------|------|
|                         | La ppm | Cr ppm | Mg %  | Ba ppm | Ti %  | B ppm | Al %  | Na %  | K %   | W ppm | Hg ppm | Sc ppm | Tl ppm | S %   | Ga ppm | Se ppm |      |
| L4300N 7375E            | Soil   | 10     | 22    | 0.28   | 166   | 0.082 | 4     | 1.78  | 0.025 | 0.10  | 0.2    | 0.01   | 2.5    | <0.1  | 0.07   | 5      | <0.5 |
| L4300N 7387.5E          | Soil   | 8      | 23    | 0.26   | 179   | 0.068 | 2     | 1.33  | 0.018 | 0.10  | 0.2    | 0.02   | 2.1    | <0.1  | 0.06   | 4      | <0.5 |
| L4300N 7400E            | Soil   | 9      | 18    | 0.22   | 180   | 0.065 | 2     | 1.32  | 0.017 | 0.10  | 0.2    | <0.01  | 2.0    | <0.1  | 0.06   | 4      | <0.5 |
| L4300N 7412.5E          | Soil   | 7      | 17    | 0.20   | 213   | 0.066 | 2     | 1.44  | 0.017 | 0.09  | 0.1    | 0.01   | 1.8    | <0.1  | <0.05  | 4      | <0.5 |
| L4300N 7425E            | Soil   | 13     | 25    | 0.27   | 118   | 0.075 | 2     | 1.45  | 0.020 | 0.12  | 0.2    | <0.01  | 2.7    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7437.5E          | Soil   | 9      | 22    | 0.25   | 160   | 0.077 | 1     | 1.65  | 0.019 | 0.11  | 0.2    | 0.02   | 2.5    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7450E            | Soil   | 9      | 21    | 0.26   | 154   | 0.087 | 2     | 1.98  | 0.019 | 0.09  | 0.2    | 0.01   | 2.3    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7462.5E          | Soil   | 5      | 20    | 0.21   | 253   | 0.061 | 1     | 1.24  | 0.015 | 0.07  | 0.1    | 0.01   | 1.5    | <0.1  | <0.05  | 4      | <0.5 |
| L4300N 7475E            | Soil   | 7      | 27    | 0.28   | 108   | 0.064 | <1    | 0.87  | 0.013 | 0.13  | 0.1    | <0.01  | 1.9    | <0.1  | <0.05  | 3      | <0.5 |
| L4300N 7487.5E          | Soil   | 9      | 21    | 0.24   | 120   | 0.076 | 2     | 1.64  | 0.021 | 0.11  | 0.1    | <0.01  | 2.2    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7500E            | Soil   | 14     | 23    | 0.29   | 132   | 0.093 | 1     | 1.86  | 0.024 | 0.11  | 0.1    | 0.03   | 2.8    | 0.1   | <0.05  | 5      | <0.5 |
| L4300N 7512.5E          | Soil   | 14     | 42    | 0.46   | 156   | 0.097 | 1     | 1.63  | 0.021 | 0.19  | 0.2    | 0.01   | 3.6    | 0.2   | <0.05  | 6      | <0.5 |
| L4300N 7525E            | Soil   | 12     | 23    | 0.24   | 80    | 0.063 | <1    | 0.67  | 0.016 | 0.12  | 0.2    | <0.01  | 2.0    | <0.1  | <0.05  | 3      | <0.5 |
| L4300N 7537.5E          | Soil   | 6      | 18    | 0.21   | 194   | 0.072 | 2     | 1.55  | 0.017 | 0.10  | 0.1    | <0.01  | 1.8    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7575E            | Soil   | 11     | 24    | 0.29   | 152   | 0.076 | 1     | 1.40  | 0.017 | 0.13  | 0.1    | 0.01   | 2.4    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7587.5E          | Soil   | 7      | 26    | 0.29   | 185   | 0.078 | 1     | 1.59  | 0.017 | 0.11  | 0.2    | <0.01  | 2.2    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7612.5E          | Soil   | 11     | 24    | 0.29   | 251   | 0.077 | 3     | 1.61  | 0.015 | 0.14  | 0.2    | <0.01  | 2.5    | 0.1   | <0.05  | 5      | <0.5 |
| L4300N 7625E            | Soil   | 12     | 27    | 0.29   | 274   | 0.070 | 2     | 1.33  | 0.012 | 0.12  | 0.2    | 0.02   | 2.0    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7637.5E          | Soil   | 13     | 21    | 0.25   | 163   | 0.076 | 2     | 1.66  | 0.017 | 0.09  | 0.2    | <0.01  | 2.1    | <0.1  | <0.05  | 5      | <0.5 |
| L4300N 7650E            | Soil   | 8      | 17    | 0.22   | 140   | 0.064 | 2     | 1.22  | 0.021 | 0.08  | 0.1    | 0.02   | 1.5    | <0.1  | <0.05  | 4      | <0.5 |
| L4250N 7150E            | Soil   | 7      | 14    | 0.18   | 220   | 0.068 | 1     | 1.58  | 0.017 | 0.10  | 0.1    | 0.03   | 1.8    | <0.1  | <0.05  | 4      | <0.5 |
| L4250N 7162.5E          | Soil   | 7      | 15    | 0.21   | 155   | 0.076 | 1     | 1.65  | 0.018 | 0.08  | 0.2    | <0.01  | 1.7    | <0.1  | <0.05  | 5      | <0.5 |
| L4250N 7175E            | Soil   | 5      | 9     | 0.14   | 170   | 0.063 | 1     | 0.85  | 0.019 | 0.08  | <0.1   | 0.02   | 0.8    | <0.1  | <0.05  | 3      | <0.5 |
| L4250N 7187.5E          | Soil   | 4      | 7     | 0.11   | 183   | 0.086 | 1     | 1.91  | 0.017 | 0.05  | 0.2    | 0.04   | 1.4    | <0.1  | <0.05  | 5      | <0.5 |
| L4250N 7200E            | Soil   | 5      | 13    | 0.17   | 211   | 0.081 | 2     | 1.88  | 0.016 | 0.08  | 0.2    | 0.02   | 1.6    | <0.1  | <0.05  | 5      | <0.5 |
| L4250N 7212.5E          | Soil   | 10     | 22    | 0.28   | 171   | 0.083 | 1     | 1.68  | 0.019 | 0.10  | 0.2    | 0.01   | 2.3    | <0.1  | <0.05  | 5      | <0.5 |
| L4250N 7225E            | Soil   | 7      | 20    | 0.27   | 193   | 0.067 | 1     | 1.35  | 0.016 | 0.12  | 0.1    | 0.01   | 1.7    | <0.1  | <0.05  | 5      | <0.5 |
| L4250N 7237.5E          | Soil   | 5      | 17    | 0.22   | 160   | 0.066 | 1     | 1.24  | 0.018 | 0.08  | 0.1    | <0.01  | 1.6    | <0.1  | <0.05  | 4      | <0.5 |
| L4250N 7250E            | Soil   | 2      | 8     | 0.12   | 148   | 0.048 | 1     | 0.68  | 0.017 | 0.06  | 0.2    | 0.01   | 0.8    | <0.1  | <0.05  | 3      | <0.5 |
| L4250N 7262.5E          | Soil   | 5      | 14    | 0.23   | 111   | 0.062 | 1     | 1.46  | 0.012 | 0.06  | 0.1    | 0.01   | 1.2    | <0.1  | <0.05  | 5      | <0.5 |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4250N 7275E            | Soil             | 0.9              | 17.4             | 7.4            | 48               | <0.1             | 9.1              | 6.1            | 613             | 1.51             | 12.6            | 0.4              | 1.2              | 0.2            | 10               | 0.2              | 0.4              | 0.2           | 39              | 0.10            | 0.108 |
| L4250N 7287.5E          | Soil             | 0.6              | 21.2             | 9.2            | 61               | <0.1             | 10.6             | 7.1            | 1202            | 1.54             | 14.8            | 0.4              | 1.9              | 0.9            | 25               | 0.5              | 0.3              | 0.2           | 37              | 0.30            | 0.112 |
| L4250N 7300E            | Soil             | 0.5              | 34.3             | 13.0           | 54               | 0.2              | 12.9             | 9.7            | 1111            | 2.07             | 20.2            | 0.6              | 1.8              | 1.4            | 25               | 0.4              | 0.3              | 0.3           | 50              | 0.28            | 0.131 |
| L4250N 7312.5E          | Soil             | 0.7              | 43.4             | 23.2           | 114              | 0.1              | 16.2             | 12.4           | 1336            | 2.42             | 34.1            | 0.4              | 9.1              | 2.3            | 37               | 1.4              | 0.5              | 0.4           | 52              | 0.39            | 0.126 |
| L4250N 7325E            | Soil             | 0.5              | 42.8             | 243.1          | 404              | 0.2              | 17.0             | 12.0           | 553             | 2.11             | 18.8            | 0.6              | 5.6              | 3.2            | 20               | 1.2              | 0.4              | 0.5           | 54              | 0.26            | 0.095 |
| L4250N 7337.5E          | Soil             | 0.5              | 31.2             | 15.7           | 107              | <0.1             | 22.8             | 8.1            | 266             | 2.20             | 10.0            | 0.3              | 1.6              | 3.0            | 20               | 0.2              | 0.2              | 0.2           | 53              | 0.19            | 0.037 |
| L4250N 7350E            | Soil             | 0.4              | 29.1             | 10.3           | 82               | <0.1             | 23.7             | 7.8            | 339             | 1.83             | 16.4            | 0.3              | 3.0              | 2.6            | 25               | 0.2              | 0.2              | 0.2           | 38              | 0.18            | 0.132 |
| L4250N 7362.5E          | Soil             | 0.4              | 48.1             | 8.4            | 75               | 0.1              | 25.3             | 9.4            | 376             | 2.03             | 17.0            | 0.6              | 2.1              | 2.6            | 24               | 0.2              | 0.2              | 0.2           | 44              | 0.21            | 0.134 |
| L4250N 7375             | Soil             | 0.5              | 35.1             | 8.1            | 74               | 0.1              | 25.0             | 9.8            | 390             | 1.99             | 12.6            | 0.4              | 3.5              | 2.9            | 26               | 0.2              | 0.2              | 0.2           | 43              | 0.22            | 0.067 |
| L4250N 7387.5E          | Soil             | 0.4              | 29.7             | 6.6            | 56               | <0.1             | 21.9             | 7.6            | 421             | 1.73             | 13.3            | 0.3              | 2.8              | 2.3            | 26               | 0.1              | 0.2              | 0.1           | 36              | 0.19            | 0.138 |
| L4250N 7400E            | Soil             | 0.4              | 19.2             | 5.8            | 63               | <0.1             | 16.5             | 5.9            | 452             | 1.42             | 12.6            | 0.3              | 3.1              | 1.7            | 34               | 0.2              | 0.2              | 0.1           | 28              | 0.31            | 0.228 |
| L4250N 7412.5E          | Soil             | 0.3              | 22.2             | 6.2            | 56               | <0.1             | 17.0             | 6.2            | 394             | 1.45             | 11.2            | 0.3              | 3.0              | 2.0            | 27               | 0.1              | 0.2              | 0.1           | 30              | 0.28            | 0.079 |
| L4250N 7425E            | Soil             | 0.4              | 32.6             | 6.8            | 52               | 0.1              | 22.2             | 8.0            | 260             | 1.78             | 10.1            | 0.4              | 3.4              | 2.2            | 29               | 0.1              | 0.2              | 0.2           | 38              | 0.33            | 0.024 |
| L4250N 7437.5E          | Soil             | 0.4              | 24.3             | 5.6            | 45               | <0.1             | 17.1             | 6.4            | 388             | 1.55             | 9.3             | 0.4              | 2.7              | 1.9            | 31               | 0.2              | 0.1              | 0.2           | 34              | 0.34            | 0.062 |
| L4250N 7450E            | Soil             | 0.3              | 29.6             | 5.8            | 57               | 0.2              | 18.0             | 6.6            | 299             | 1.65             | 9.8             | 0.5              | 2.6              | 2.2            | 30               | <0.1             | 0.2              | 0.2           | 33              | 0.31            | 0.031 |
| L4250N 7462.5E          | Soil             | 0.4              | 30.2             | 6.6            | 68               | <0.1             | 19.7             | 7.8            | 335             | 1.85             | 16.6            | 0.5              | 2.5              | 2.6            | 25               | 0.3              | 0.2              | 0.2           | 41              | 0.23            | 0.058 |
| L4250N 7475E            | Soil             | 0.6              | 18.9             | 9.6            | 145              | <0.1             | 15.3             | 6.3            | 528             | 1.58             | 17.1            | 0.3              | 2.3              | 1.9            | 29               | 0.6              | 0.2              | 0.2           | 31              | 0.22            | 0.152 |
| L4250N 7487.5E          | Soil             | 0.5              | 21.9             | 12.6           | 112              | <0.1             | 14.6             | 6.3            | 717             | 1.36             | 9.8             | 0.2              | 2.9              | 0.8            | 30               | 0.4              | 0.3              | 0.2           | 30              | 0.25            | 0.079 |
| L4250N 7500E            | Soil             | 0.4              | 15.4             | 7.4            | 199              | 0.2              | 14.5             | 6.4            | 522             | 1.53             | 14.9            | 0.3              | 2.2              | 1.8            | 31               | 1.0              | 0.1              | 0.2           | 27              | 0.22            | 0.332 |
| L4250N 7512.5E          | Soil             | 0.4              | 18.5             | 6.0            | 151              | <0.1             | 15.5             | 5.8            | 413             | 1.41             | 11.5            | 0.3              | 2.6              | 1.6            | 31               | 0.7              | 0.2              | 0.2           | 27              | 0.21            | 0.205 |
| L4250N 7525E            | Soil             | 0.5              | 28.4             | 8.7            | 125              | 0.1              | 16.7             | 6.7            | 442             | 1.53             | 14.9            | 0.4              | 2.4              | 1.8            | 36               | 0.6              | 0.2              | 0.2           | 31              | 0.35            | 0.112 |
| L4250N 7537.5E          | Soil             | 0.7              | 46.1             | 7.5            | 90               | 0.2              | 22.1             | 9.0            | 375             | 2.02             | 15.5            | 0.7              | 4.0              | 2.9            | 29               | 0.4              | 0.2              | 0.2           | 42              | 0.23            | 0.101 |
| L4250N 7550E            | Soil             | 0.7              | 39.1             | 6.9            | 95               | 0.1              | 22.2             | 8.0            | 423             | 1.90             | 13.1            | 0.5              | 2.1              | 2.3            | 25               | 0.4              | 0.2              | 0.2           | 35              | 0.23            | 0.156 |
| L4250N 7562.5E          | Soil             | 0.8              | 33.9             | 6.6            | 85               | 0.2              | 21.3             | 8.1            | 381             | 1.91             | 14.5            | 0.5              | 3.6              | 2.6            | 25               | 0.4              | 0.2              | 0.2           | 35              | 0.19            | 0.105 |
| L4250N 7575E            | Soil             | 0.6              | 28.3             | 6.5            | 84               | <0.1             | 20.3             | 7.5            | 301             | 1.86             | 11.8            | 0.4              | 5.3              | 2.8            | 22               | 0.4              | 0.2              | 0.2           | 36              | 0.18            | 0.053 |
| L4250N 7587.5E          | Soil             | 2.0              | 105.7            | 6.2            | 73               | 0.2              | 27.0             | 7.1            | 551             | 1.82             | 14.9            | 0.3              | 4.7              | 2.8            | 33               | 2.0              | 0.3              | 0.1           | 32              | 0.36            | 0.018 |
| L4250N 7600E            | Soil             | 1.0              | 53.1             | 6.9            | 61               | 0.2              | 25.1             | 8.9            | 307             | 2.04             | 12.5            | 0.3              | 3.2              | 3.1            | 36               | 1.1              | 0.3              | 0.2           | 34              | 0.45            | 0.016 |
| L4250N 7625E            | Soil             | 0.6              | 29.5             | 5.5            | 58               | 0.1              | 18.8             | 7.4            | 356             | 1.80             | 15.1            | 0.5              | 3.7              | 2.5            | 29               | 0.2              | 0.1              | 0.1           | 35              | 0.28            | 0.083 |
| L4250N 7637.5E          | Soil             | 0.7              | 29.3             | 6.9            | 86               | 0.1              | 17.3             | 7.8            | 730             | 1.72             | 19.0            | 0.6              | 2.5              | 2.0            | 31               | 0.2              | 0.1              | 0.2           | 29              | 0.24            | 0.362 |
| L4250N 7650E            | Soil             | 0.5              | 22.1             | 9.7            | 69               | <0.1             | 14.8             | 6.0            | 537             | 1.48             | 26.1            | 0.4              | 2.6              | 1.6            | 31               | 0.2              | 0.2              | 0.2           | 26              | 0.31            | 0.196 |



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Project: 41

Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            |      |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |      |
| L4250N 7275E                     | Soil           | 4              | 13              | 0.19           | 76               | 0.054         | <1              | 1.38             | 0.012          | 0.05            | 0.1               | 0.04             | 1.1              | <0.1           | 0.06           | 6                | <0.5 |
| L4250N 7287.5E                   | Soil           | 6              | 15              | 0.24           | 188              | 0.072         | 2               | 1.31             | 0.014          | 0.08            | <0.1              | 0.03             | 1.5              | <0.1           | <0.05          | 6                | <0.5 |
| L4250N 7300E                     | Soil           | 10             | 18              | 0.33           | 123              | 0.087         | 1               | 2.15             | 0.013          | 0.06            | 0.1               | 0.02             | 3.6              | <0.1           | <0.05          | 7                | 0.6  |
| L4250N 7312.5E                   | Soil           | 14             | 20              | 0.42           | 275              | 0.080         | 3               | 1.71             | 0.014          | 0.11            | 0.2               | 0.03             | 3.9              | 0.1            | <0.05          | 7                | 0.6  |
| L4250N 7325E                     | Soil           | 13             | 30              | 0.36           | 124              | 0.078         | <1              | 1.66             | 0.012          | 0.12            | 0.2               | <0.01            | 2.9              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7337.5E                   | Soil           | 8              | 36              | 0.39           | 154              | 0.092         | 1               | 1.67             | 0.014          | 0.14            | 0.2               | <0.01            | 2.3              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7350E                     | Soil           | 7              | 28              | 0.34           | 167              | 0.078         | 1               | 1.61             | 0.017          | 0.12            | 0.2               | 0.02             | 2.3              | 0.1            | <0.05          | 5                | <0.5 |
| L4250N 7362.5E                   | Soil           | 13             | 32              | 0.39           | 165              | 0.087         | 2               | 1.87             | 0.020          | 0.14            | 0.1               | 0.01             | 3.2              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7375                      | Soil           | 11             | 34              | 0.36           | 145              | 0.096         | 2               | 1.92             | 0.021          | 0.14            | 0.2               | 0.02             | 3.1              | 0.1            | <0.05          | 5                | <0.5 |
| L4250N 7387.5E                   | Soil           | 9              | 29              | 0.31           | 193              | 0.076         | 1               | 1.58             | 0.021          | 0.12            | 0.2               | 0.02             | 2.4              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7400E                     | Soil           | 6              | 21              | 0.22           | 197              | 0.065         | 1               | 1.36             | 0.026          | 0.10            | 0.2               | 0.02             | 1.9              | <0.1           | <0.05          | 4                | <0.5 |
| L4250N 7412.5E                   | Soil           | 7              | 22              | 0.25           | 129              | 0.084         | <1              | 1.58             | 0.023          | 0.09            | 0.1               | 0.02             | 2.0              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7425E                     | Soil           | 10             | 29              | 0.35           | 104              | 0.089         | 1               | 1.73             | 0.029          | 0.07            | 0.1               | 0.03             | 2.4              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7437.5E                   | Soil           | 8              | 24              | 0.30           | 96               | 0.082         | 2               | 1.64             | 0.027          | 0.08            | 0.1               | 0.01             | 1.9              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7450E                     | Soil           | 11             | 22              | 0.28           | 101              | 0.083         | <1              | 1.61             | 0.028          | 0.08            | <0.1              | 0.02             | 2.2              | <0.1           | <0.05          | 4                | <0.5 |
| L4250N 7462.5E                   | Soil           | 9              | 28              | 0.33           | 117              | 0.089         | 1               | 1.65             | 0.022          | 0.09            | 0.2               | 0.02             | 2.4              | 0.1            | <0.05          | 5                | <0.5 |
| L4250N 7475E                     | Soil           | 5              | 20              | 0.23           | 148              | 0.073         | 1               | 1.58             | 0.016          | 0.10            | 0.1               | 0.03             | 1.7              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7487.5E                   | Soil           | 4              | 24              | 0.25           | 161              | 0.056         | <1              | 0.86             | 0.018          | 0.07            | <0.1              | 0.02             | 1.3              | <0.1           | <0.05          | 3                | <0.5 |
| L4250N 7500E                     | Soil           | 5              | 20              | 0.21           | 237              | 0.077         | <1              | 1.76             | 0.017          | 0.08            | <0.1              | 0.02             | 1.7              | <0.1           | <0.05          | 5                | <0.5 |
| L4250N 7512.5E                   | Soil           | 4              | 20              | 0.23           | 206              | 0.070         | <1              | 1.43             | 0.019          | 0.09            | <0.1              | 0.01             | 1.7              | <0.1           | <0.05          | 4                | <0.5 |
| L4250N 7525E                     | Soil           | 8              | 23              | 0.28           | 146              | 0.074         | <1              | 1.38             | 0.020          | 0.12            | 0.1               | 0.02             | 2.0              | <0.1           | <0.05          | 4                | <0.5 |
| L4250N 7537.5E                   | Soil           | 12             | 31              | 0.40           | 158              | 0.101         | 2               | 2.07             | 0.022          | 0.16            | 0.2               | 0.03             | 3.0              | 0.1            | <0.05          | 6                | 0.5  |
| L4250N 7550E                     | Soil           | 9              | 28              | 0.33           | 154              | 0.095         | 3               | 2.19             | 0.025          | 0.14            | 0.2               | 0.03             | 2.9              | 0.1            | <0.05          | 6                | <0.5 |
| L4250N 7562.5E                   | Soil           | 8              | 24              | 0.30           | 141              | 0.099         | 2               | 2.10             | 0.023          | 0.14            | 0.1               | 0.02             | 2.7              | 0.1            | <0.05          | 6                | <0.5 |
| L4250N 7575E                     | Soil           | 8              | 26              | 0.28           | 106              | 0.096         | 1               | 1.92             | 0.022          | 0.13            | 0.1               | 0.01             | 2.4              | 0.1            | <0.05          | 6                | <0.5 |
| L4250N 7587.5E                   | Soil           | 20             | 24              | 0.29           | 75               | 0.085         | <1              | 1.71             | 0.031          | 0.09            | 0.1               | 0.02             | 2.9              | 0.2            | <0.05          | 4                | <0.5 |
| L4250N 7600E                     | Soil           | 12             | 31              | 0.36           | 84               | 0.098         | 2               | 1.74             | 0.029          | 0.10            | 0.1               | 0.02             | 3.2              | 0.1            | <0.05          | 5                | <0.5 |
| L4250N 7625E                     | Soil           | 10             | 26              | 0.29           | 111              | 0.089         | 2               | 1.80             | 0.026          | 0.11            | 0.1               | 0.03             | 2.6              | 0.1            | <0.05          | 5                | <0.5 |
| L4250N 7637.5E                   | Soil           | 8              | 21              | 0.26           | 193              | 0.089         | 2               | 2.10             | 0.024          | 0.10            | 0.1               | 0.03             | 2.7              | <0.1           | <0.05          | 6                | 0.7  |
| L4250N 7650E                     | Soil           | 6              | 16              | 0.21           | 129              | 0.081         | 1               | 1.78             | 0.025          | 0.08            | <0.1              | 0.03             | 1.7              | <0.1           | <0.05          | 5                | <0.5 |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4200N 7150E            | Soil             | 0.3              | 20.7             | 7.5            | 73               | 0.1              | 17.9             | 6.0            | 473             | 1.54             | 17.9            | 0.5              | 2.2              | 1.9            | 23               | 0.2              | 0.2              | 0.2           | 28              | 0.18            | 0.212 |
| L4200N 7162.5E          | Soil             | 0.4              | 16.9             | 5.4            | 63               | <0.1             | 12.8             | 5.3            | 441             | 1.34             | 12.5            | 0.4              | 1.5              | 1.6            | 23               | 0.1              | 0.2              | 0.1           | 27              | 0.19            | 0.138 |
| L4200N 7175E            | Soil             | 0.4              | 20.2             | 6.2            | 58               | <0.1             | 14.4             | 5.6            | 414             | 1.44             | 24.4            | 0.3              | 2.2              | 1.7            | 20               | 0.1              | 0.2              | 0.1           | 28              | 0.20            | 0.182 |
| L4200N 7187.5E          | Soil             | 0.5              | 28.7             | 8.2            | 163              | 0.1              | 15.3             | 7.3            | 638             | 1.70             | 17.4            | 0.5              | 3.4              | 2.0            | 26               | 0.7              | 0.2              | 0.2           | 33              | 0.22            | 0.157 |
| L4200N 7200E            | Soil             | 0.4              | 21.3             | 10.0           | 93               | 0.1              | 12.2             | 6.6            | 769             | 1.53             | 17.7            | 0.6              | 3.5              | 2.0            | 22               | 0.6              | 0.3              | 0.2           | 32              | 0.23            | 0.228 |
| L4200N 7212.5E          | Soil             | 0.5              | 20.0             | 12.9           | 86               | 0.2              | 14.7             | 7.6            | 700             | 1.96             | 24.5            | 0.7              | 4.4              | 2.2            | 23               | 0.5              | 0.3              | 0.4           | 45              | 0.25            | 0.226 |
| L4200N 7225E            | Soil             | 0.4              | 23.4             | 7.6            | 52               | <0.1             | 16.9             | 7.1            | 409             | 1.72             | 11.3            | 0.5              | 2.8              | 2.3            | 24               | 0.1              | 0.2              | 0.1           | 35              | 0.21            | 0.134 |
| L4200N 7237.5E          | Soil             | 0.4              | 19.7             | 9.0            | 59               | 0.1              | 16.5             | 7.1            | 636             | 1.78             | 10.9            | 0.6              | 3.9              | 2.3            | 19               | 0.2              | 0.2              | 0.2           | 34              | 0.17            | 0.111 |
| L4200N 7250E            | Soil             | 0.4              | 17.4             | 6.0            | 59               | <0.1             | 16.0             | 7.0            | 550             | 1.60             | 9.3             | 0.4              | 6.2              | 2.3            | 20               | 0.2              | 0.1              | 0.1           | 33              | 0.15            | 0.109 |
| L4200N 7262.5E          | Soil             | 0.6              | 23.7             | 8.6            | 81               | 0.2              | 19.6             | 8.6            | 620             | 2.11             | 14.1            | 0.6              | 4.4              | 2.1            | 21               | 0.3              | 0.3              | 0.2           | 47              | 0.23            | 0.118 |
| L4200N 7275E            | Soil             | 0.5              | 25.5             | 10.0           | 81               | <0.1             | 18.6             | 7.8            | 495             | 2.02             | 17.9            | 0.4              | 10.1             | 1.9            | 16               | 0.2              | 0.4              | 0.2           | 45              | 0.16            | 0.106 |
| L4200N 7287.5E          | Soil             | 0.7              | 18.9             | 23.2           | 208              | 0.2              | 11.7             | 12.8           | 1574            | 2.22             | 32.6            | 0.4              | 1.9              | 1.0            | 36               | 1.0              | 0.3              | 0.3           | 40              | 0.39            | 0.174 |
| L4200N 7300E            | Soil             | 0.7              | 27.4             | 16.6           | 101              | 0.2              | 22.5             | 9.2            | 432             | 2.37             | 16.0            | 0.8              | 56.5             | 3.4            | 18               | 0.4              | 0.3              | 0.2           | 56              | 0.22            | 0.083 |
| L4200N 7312.5E          | Soil             | 0.5              | 22.6             | 16.9           | 91               | 0.1              | 16.7             | 7.2            | 579             | 1.84             | 18.6            | 0.5              | 0.8              | 2.6            | 19               | 0.5              | 0.4              | 0.3           | 41              | 0.15            | 0.088 |
| L4200N 7325E            | Soil             | 0.5              | 27.5             | 12.1           | 62               | <0.1             | 20.7             | 8.7            | 522             | 2.09             | 20.5            | 0.5              | 4.5              | 2.9            | 25               | 0.2              | 0.4              | 0.2           | 52              | 0.22            | 0.082 |
| L4200N 7325AE           | Soil             | 0.3              | 22.3             | 7.2            | 75               | 0.1              | 19.1             | 6.4            | 430             | 1.57             | 15.8            | 0.4              | 2.7              | 2.9            | 30               | 0.2              | 0.2              | 0.2           | 30              | 0.18            | 0.218 |
| L4200N 7337.5E          | Soil             | 0.5              | 49.1             | 10.7           | 75               | <0.1             | 28.1             | 10.7           | 319             | 2.25             | 19.5            | 0.4              | 2.8              | 3.3            | 24               | 0.2              | 0.3              | 0.2           | 59              | 0.23            | 0.051 |
| L4200N 7350E            | Soil             | 0.4              | 34.1             | 9.2            | 76               | <0.1             | 20.6             | 8.0            | 400             | 1.84             | 12.1            | 0.5              | 1.3              | 3.4            | 36               | 0.2              | 0.2              | 0.2           | 40              | 0.27            | 0.112 |
| L4200N 7362.5E          | Soil             | 0.5              | 28.0             | 7.1            | 70               | <0.1             | 21.0             | 7.4            | 334             | 1.60             | 13.9            | 0.4              | 8.5              | 2.6            | 28               | 0.2              | 0.3              | 0.2           | 34              | 0.22            | 0.102 |
| L4200N 7387.5E          | Soil             | 0.3              | 28.5             | 7.2            | 63               | 0.2              | 20.3             | 7.6            | 240             | 1.83             | 16.8            | 0.7              | 4.3              | 3.6            | 30               | 0.2              | 0.2              | 0.1           | 41              | 0.20            | 0.077 |
| L4200N 7400E            | Soil             | 0.5              | 30.3             | 7.1            | 53               | 0.1              | 22.2             | 7.2            | 242             | 1.74             | 15.7            | 0.4              | 4.1              | 3.3            | 28               | 0.2              | 0.3              | 0.1           | 39              | 0.20            | 0.097 |
| L4200N 7412.5E          | Soil             | 0.4              | 19.4             | 6.2            | 74               | 0.2              | 20.6             | 6.0            | 458             | 1.51             | 12.0            | 0.4              | 1.0              | 2.5            | 29               | 0.1              | 0.2              | 0.1           | 31              | 0.21            | 0.151 |
| L4200N 7425E            | Soil             | 0.4              | 22.4             | 6.1            | 38               | <0.1             | 17.8             | 7.3            | 236             | 1.74             | 11.0            | 0.4              | 1.6              | 3.5            | 26               | <0.1             | 0.2              | 0.1           | 42              | 0.21            | 0.022 |
| L4200N 7437.5E          | Soil             | 0.4              | 29.6             | 8.3            | 30               | 0.2              | 23.3             | 7.2            | 226             | 1.84             | 16.0            | 0.5              | 3.4              | 3.2            | 49               | <0.1             | 0.2              | 0.2           | 33              | 0.41            | 0.030 |
| L4200N 7450E            | Soil             | 0.6              | 25.3             | 7.8            | 34               | 0.1              | 21.6             | 7.4            | 230             | 1.86             | 14.2            | 0.9              | 3.4              | 3.3            | 45               | 0.1              | 0.3              | 0.2           | 39              | 0.39            | 0.015 |
| L4200N 7462.5E          | Soil             | 0.6              | 24.0             | 9.6            | 49               | 0.1              | 22.9             | 8.0            | 322             | 1.99             | 13.4            | 0.8              | 3.3              | 4.0            | 52               | 0.2              | 0.3              | 0.2           | 39              | 0.44            | 0.021 |
| L4200N 7475E            | Soil             | 0.4              | 23.4             | 7.5            | 53               | <0.1             | 19.3             | 6.4            | 299             | 1.65             | 16.7            | 0.9              | 2.0              | 2.9            | 27               | 0.2              | 0.2              | 0.2           | 38              | 0.23            | 0.099 |
| L4200N 7487E            | Soil             | 0.6              | 30.3             | 8.0            | 60               | 0.1              | 18.1             | 7.5            | 365             | 1.91             | 16.0            | 1.6              | 19.8             | 3.8            | 32               | 0.1              | 0.2              | 0.2           | 43              | 0.24            | 0.123 |
| L4200N 7500E            | Soil             | 0.6              | 27.9             | 10.3           | 103              | 0.3              | 19.1             | 7.2            | 412             | 2.08             | 17.0            | 1.4              | 2.9              | 4.7            | 29               | 0.3              | 0.2              | 0.2           | 43              | 0.21            | 0.176 |
| L4200N 7512.5E          | Soil             | 2.1              | 122.1            | 26.7           | 122              | 0.7              | 27.1             | 12.2           | 522             | 2.32             | 23.1            | 1.9              | 9.3              | 4.9            | 40               | 0.5              | 0.4              | 0.6           | 58              | 0.34            | 0.119 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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 Greenwood B.C. V0H 1J0 Canada

Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            |      |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |      |
| L4200N 7150E                     | Soil           | 7              | 16              | 0.22           | 168              | 0.080         | <1              | 1.80             | 0.020          | 0.09            | 0.2               | 0.02             | 1.9              | <0.1           | <0.05          | 5                | <0.5 |
| L4200N 7162.5E                   | Soil           | 6              | 16              | 0.21           | 173              | 0.070         | <1              | 1.34             | 0.020          | 0.11            | 0.1               | 0.01             | 1.6              | 0.1            | <0.05          | 4                | <0.5 |
| L4200N 7175E                     | Soil           | 6              | 17              | 0.25           | 132              | 0.075         | <1              | 1.56             | 0.019          | 0.09            | <0.1              | 0.03             | 1.8              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7187.5E                   | Soil           | 7              | 20              | 0.32           | 157              | 0.087         | <1              | 1.64             | 0.021          | 0.10            | 0.2               | 0.03             | 2.1              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7200E                     | Soil           | 7              | 17              | 0.28           | 193              | 0.089         | 1               | 1.95             | 0.020          | 0.08            | 0.1               | 0.03             | 2.1              | 0.1            | <0.05          | 6                | 0.7  |
| L4200N 7212.5E                   | Soil           | 8              | 20              | 0.35           | 154              | 0.101         | 1               | 2.26             | 0.017          | 0.09            | 0.2               | 0.04             | 3.6              | 0.1            | <0.05          | 7                | <0.5 |
| L4200N 7225E                     | Soil           | 9              | 22              | 0.32           | 182              | 0.087         | <1              | 1.86             | 0.018          | 0.07            | 0.2               | 0.02             | 2.3              | 0.1            | <0.05          | 6                | <0.5 |
| L4200N 7237.5E                   | Soil           | 7              | 22              | 0.33           | 179              | 0.084         | <1              | 1.67             | 0.018          | 0.07            | 0.2               | 0.03             | 2.1              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7250E                     | Soil           | 7              | 22              | 0.32           | 183              | 0.078         | <1              | 1.41             | 0.017          | 0.07            | <0.1              | 0.02             | 1.9              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7262.5E                   | Soil           | 9              | 26              | 0.37           | 146              | 0.094         | <1              | 1.81             | 0.012          | 0.11            | 0.2               | 0.03             | 2.2              | 0.1            | <0.05          | 7                | 0.6  |
| L4200N 7275E                     | Soil           | 7              | 25              | 0.36           | 148              | 0.093         | <1              | 1.69             | 0.011          | 0.09            | 0.2               | 0.02             | 1.9              | 0.1            | <0.05          | 6                | <0.5 |
| L4200N 7287.5E                   | Soil           | 7              | 18              | 0.29           | 277              | 0.072         | 1               | 1.47             | 0.014          | 0.10            | <0.1              | 0.05             | 2.3              | 0.1            | <0.05          | 7                | 0.5  |
| L4200N 7300E                     | Soil           | 11             | 32              | 0.43           | 129              | 0.133         | 1               | 2.14             | 0.016          | 0.07            | 0.2               | 0.02             | 2.9              | 0.1            | <0.05          | 7                | <0.5 |
| L4200N 7312.5E                   | Soil           | 8              | 23              | 0.36           | 179              | 0.099         | 1               | 1.47             | 0.021          | 0.08            | 0.2               | 0.02             | 2.4              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7325E                     | Soil           | 9              | 27              | 0.42           | 148              | 0.111         | 3               | 1.58             | 0.021          | 0.11            | 0.2               | 0.01             | 2.8              | 0.2            | <0.05          | 5                | <0.5 |
| L4200N 7325AE                    | Soil           | 8              | 19              | 0.27           | 210              | 0.098         | 3               | 1.84             | 0.030          | 0.09            | 0.2               | <0.01            | 2.1              | <0.1           | <0.05          | 5                | <0.5 |
| L4200N 7337.5E                   | Soil           | 11             | 39              | 0.52           | 143              | 0.121         | 3               | 1.61             | 0.023          | 0.14            | 0.2               | 0.02             | 3.3              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7350E                     | Soil           | 11             | 29              | 0.41           | 198              | 0.107         | 2               | 1.79             | 0.033          | 0.14            | 0.2               | 0.01             | 3.0              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7362.5E                   | Soil           | 9              | 23              | 0.34           | 165              | 0.104         | 2               | 1.75             | 0.031          | 0.11            | 0.1               | 0.01             | 2.4              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7387.5E                   | Soil           | 11             | 22              | 0.31           | 205              | 0.110         | 2               | 1.92             | 0.030          | 0.10            | 0.2               | 0.01             | 2.5              | 0.1            | <0.05          | 6                | <0.5 |
| L4200N 7400E                     | Soil           | 9              | 24              | 0.30           | 177              | 0.086         | 2               | 1.45             | 0.024          | 0.11            | 0.2               | 0.01             | 2.2              | <0.1           | <0.05          | 4                | <0.5 |
| L4200N 7412.5E                   | Soil           | 7              | 17              | 0.23           | 204              | 0.095         | 3               | 1.68             | 0.027          | 0.10            | 0.1               | 0.01             | 1.8              | <0.1           | <0.05          | 4                | 0.6  |
| L4200N 7425E                     | Soil           | 9              | 25              | 0.32           | 162              | 0.114         | 1               | 1.45             | 0.032          | 0.13            | <0.1              | <0.01            | 2.5              | 0.1            | <0.05          | 4                | <0.5 |
| L4200N 7437.5E                   | Soil           | 22             | 21              | 0.28           | 136              | 0.116         | 1               | 2.00             | 0.041          | 0.08            | 0.1               | 0.01             | 2.8              | 0.1            | <0.05          | 5                | 1.0  |
| L4200N 7450E                     | Soil           | 14             | 26              | 0.35           | 161              | 0.116         | 2               | 1.84             | 0.036          | 0.09            | 0.1               | 0.01             | 3.0              | 0.1            | <0.05          | 5                | 0.9  |
| L4200N 7462.5E                   | Soil           | 19             | 27              | 0.38           | 136              | 0.132         | 2               | 2.22             | 0.045          | 0.09            | 0.1               | 0.01             | 2.9              | 0.1            | <0.05          | 5                | <0.5 |
| L4200N 7475E                     | Soil           | 10             | 21              | 0.28           | 132              | 0.112         | 3               | 1.79             | 0.033          | 0.09            | 0.1               | <0.01            | 2.1              | <0.1           | <0.05          | 5                | <0.5 |
| L4200N 7487E                     | Soil           | 15             | 26              | 0.39           | 150              | 0.112         | 2               | 2.11             | 0.029          | 0.13            | 0.2               | 0.02             | 3.0              | 0.1            | <0.05          | 6                | <0.5 |
| L4200N 7500E                     | Soil           | 17             | 24              | 0.39           | 147              | 0.137         | 2               | 2.53             | 0.031          | 0.10            | 0.2               | 0.02             | 2.6              | 0.1            | <0.05          | 7                | <0.5 |
| L4200N 7512.5E                   | Soil           | 25             | 31              | 0.64           | 237              | 0.139         | 4               | 2.78             | 0.034          | 0.13            | 0.2               | 0.02             | 4.3              | 0.2            | <0.05          | 8                | 0.6  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte         | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit            | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL             | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4200N 7525E    | Soil  | 1.4   | 35.7  | 42.9  | 459   | 0.4   | 21.5  | 9.1   | 841   | 2.01  | 13.9  | 0.6   | 12.6  | 2.9   | 30    | 1.9   | 0.3   | 0.4   | 43    | 0.27  | 0.155 |
| L4200N 7537.5E  | Soil  | 0.9   | 32.6  | 15.6  | 163   | <0.1  | 20.5  | 7.9   | 479   | 1.85  | 21.6  | 0.6   | 2.8   | 3.4   | 34    | 0.7   | 0.3   | 0.3   | 44    | 0.28  | 0.177 |
| L4200N 7550E    | Soil  | 0.9   | 42.0  | 9.9   | 81    | 0.2   | 22.9  | 9.7   | 242   | 2.21  | 10.9  | 0.8   | 4.8   | 4.9   | 40    | 0.3   | 0.2   | 0.2   | 51    | 0.27  | 0.018 |
| L4200N 7562.5E  | Soil  | 1.0   | 33.7  | 15.0  | 136   | 0.2   | 31.6  | 9.9   | 364   | 2.16  | 23.2  | 1.0   | 6.0   | 3.9   | 29    | 0.5   | 0.3   | 0.3   | 49    | 0.24  | 0.096 |
| L4200N 7575E    | Soil  | 0.5   | 27.5  | 8.7   | 108   | 0.1   | 23.4  | 7.9   | 494   | 1.82  | 20.2  | 0.5   | 1.6   | 3.1   | 32    | 0.4   | 0.2   | 0.2   | 39    | 0.30  | 0.203 |
| L4200N 7587.5E  | Soil  | 0.6   | 26.8  | 8.5   | 117   | <0.1  | 23.3  | 7.7   | 474   | 1.89  | 21.8  | 0.5   | 1.6   | 3.0   | 28    | 0.5   | 0.2   | 0.2   | 38    | 0.25  | 0.168 |
| L4200N 7600E    | Soil  | 0.4   | 18.7  | 7.9   | 78    | <0.1  | 17.5  | 6.4   | 302   | 1.67  | 11.6  | 0.6   | 2.6   | 3.1   | 25    | 0.3   | 0.2   | 0.2   | 36    | 0.27  | 0.174 |
| L4200N 7612.5E  | Soil  | 0.4   | 25.0  | 7.3   | 53    | 0.1   | 19.7  | 7.0   | 276   | 1.87  | 15.9  | 0.5   | 3.3   | 3.5   | 30    | 0.2   | 0.2   | 0.2   | 42    | 0.33  | 0.102 |
| L4200N 7612.5AE | Soil  | 0.6   | 23.6  | 6.3   | 42    | <0.1  | 18.7  | 7.3   | 216   | 1.89  | 11.5  | 0.4   | 1.7   | 3.3   | 41    | 0.3   | 0.2   | 0.2   | 35    | 0.42  | 0.025 |
| L4200N 7625E    | Soil  | 0.4   | 13.4  | 7.6   | 55    | <0.1  | 10.9  | 4.7   | 493   | 1.23  | 9.5   | 0.3   | 2.2   | 1.9   | 35    | 0.2   | 0.2   | 0.1   | 28    | 0.28  | 0.130 |
| L4200N 7637.5E  | Soil  | 0.5   | 28.9  | 10.0  | 68    | 0.1   | 20.8  | 7.4   | 250   | 2.26  | 15.9  | 0.8   | 3.2   | 5.9   | 27    | 0.2   | 0.3   | 0.2   | 48    | 0.22  | 0.119 |
| L4200N 7650E    | Soil  | 0.7   | 28.7  | 8.2   | 58    | <0.1  | 21.7  | 6.2   | 332   | 1.70  | 14.6  | 0.5   | 1.8   | 3.2   | 38    | 0.3   | 0.3   | 0.2   | 33    | 0.42  | 0.044 |



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## CERTIFICATE OF ANALYSIS

VAN07002982.1

| Method          | Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|-----------------|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                 |         |      | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se   |
|                 |         | MDL  | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
|                 |         |      | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   |      |
| L4200N 7525E    | Soil    |      | 9     | 28    | 0.45  | 234   | 0.118 | 3     | 1.91  | 0.028 | 0.10  | 0.1   | 0.01  | 2.5   | 0.2   | <0.05 | 7     | <0.5 |
| L4200N 7537.5E  | Soil    |      | 8     | 26    | 0.41  | 160   | 0.115 | 2     | 2.12  | 0.029 | 0.10  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 6     | <0.5 |
| L4200N 7550E    | Soil    |      | 19    | 33    | 0.46  | 117   | 0.141 | 2     | 2.04  | 0.038 | 0.14  | 0.2   | 0.02  | 4.3   | 0.1   | <0.05 | 6     | <0.5 |
| L4200N 7562.5E  | Soil    |      | 11    | 34    | 0.45  | 137   | 0.126 | 2     | 2.25  | 0.032 | 0.12  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | <0.5 |
| L4200N 7575E    | Soil    |      | 8     | 32    | 0.42  | 173   | 0.114 | 2     | 1.83  | 0.030 | 0.10  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L4200N 7587.5E  | Soil    |      | 9     | 26    | 0.39  | 180   | 0.109 | 2     | 1.93  | 0.031 | 0.08  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4200N 7600E    | Soil    |      | 11    | 23    | 0.35  | 137   | 0.088 | 2     | 1.57  | 0.032 | 0.08  | 0.2   | <0.01 | 2.6   | 0.1   | <0.05 | 5     | <0.5 |
| L4200N 7612.5E  | Soil    |      | 12    | 28    | 0.38  | 107   | 0.094 | 4     | 1.55  | 0.025 | 0.12  | 0.1   | 0.01  | 2.7   | 0.1   | <0.05 | 5     | <0.5 |
| L4200N 7612.5AE | Soil    |      | 10    | 26    | 0.35  | 89    | 0.113 | 3     | 1.90  | 0.042 | 0.08  | 0.1   | 0.02  | 2.8   | 0.1   | <0.05 | 5     | <0.5 |
| L4200N 7625E    | Soil    |      | 7     | 16    | 0.23  | 135   | 0.073 | 2     | 1.09  | 0.032 | 0.08  | 0.1   | 0.01  | 1.6   | <0.1  | <0.05 | 3     | <0.5 |
| L4200N 7637.5E  | Soil    |      | 17    | 34    | 0.40  | 133   | 0.101 | 2     | 1.73  | 0.025 | 0.12  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | 0.7  |
| L4200N 7650E    | Soil    |      | 18    | 24    | 0.33  | 86    | 0.096 | 2     | 1.44  | 0.044 | 0.08  | 0.1   | 0.01  | 2.6   | 0.1   | <0.05 | 4     | <0.5 |

**QUALITY CONTROL REPORT**

**VAN07002982.1**

| Method<br>Analyte<br>Unit<br>MDL | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15           | 1DX15            | 1DX15           | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15         | 1DX15           | 1DX15           |       |
|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
|                                  | Mo<br>ppm<br>0.1 | Cu<br>ppm<br>0.1 | Pb<br>ppm<br>0.1 | Zn<br>ppm<br>1 | Ag<br>ppm<br>0.1 | Ni<br>ppm<br>0.1 | Co<br>ppm<br>0.1 | Mn<br>ppm<br>1 | Fe<br>%<br>0.01 | As<br>ppm<br>0.5 | U<br>ppm<br>0.1 | Au<br>ppb<br>0.5 | Th<br>ppm<br>0.1 | Sr<br>ppm<br>1 | Cd<br>ppm<br>0.1 | Sb<br>ppm<br>0.1 | Bi<br>ppm<br>0.1 | V<br>ppm<br>2 | Ca<br>%<br>0.01 | P<br>%<br>0.001 |       |
| Pulp Duplicates                  |                  |                  |                  |                |                  |                  |                  |                |                 |                  |                 |                  |                  |                |                  |                  |                  |               |                 |                 |       |
| L4500N 7337.5E                   | Soil             | 0.7              | 21.0             | 11.3           | 44               | <0.1             | 15.3             | 6.4            | 618             | 1.81             | 11.4            | 0.7              | 1.4              | 3.7            | 39               | 0.1              | 0.2              | 0.2           | 37              | 0.30            | 0.130 |
| REP L4500N 7337.5E               | QC               | 0.6              | 20.5             | 11.1           | 45               | <0.1             | 14.8             | 6.6            | 589             | 1.83             | 10.4            | 0.7              | 1.7              | 3.6            | 37               | <0.1             | 0.2              | 0.2           | 42              | 0.30            | 0.127 |
| L4500N 7525E                     | Soil             | 0.5              | 20.4             | 7.6            | 47               | <0.1             | 14.9             | 6.3            | 352             | 1.80             | 10.4            | 0.5              | 3.9              | 4.0            | 37               | <0.1             | 0.2              | 0.1           | 38              | 0.25            | 0.131 |
| REP L4500N 7525E                 | QC               | 0.5              | 20.3             | 8.1            | 49               | <0.1             | 14.8             | 6.0            | 350             | 1.78             | 10.2            | 0.5              | 2.0              | 4.1            | 36               | 0.1              | 0.2              | 0.2           | 40              | 0.23            | 0.122 |
| L4450N 7237.5E                   | Soil             | 0.5              | 30.7             | 8.5            | 70               | 0.2              | 22.2             | 7.6            | 494             | 1.77             | 20.5            | 0.8              | 2.6              | 2.9            | 30               | 0.2              | 0.2              | 0.2           | 34              | 0.22            | 0.231 |
| REP L4450N 7237.5E               | QC               | 0.4              | 31.0             | 9.0            | 72               | 0.2              | 23.2             | 8.1            | 510             | 1.82             | 20.3            | 0.8              | 2.3              | 3.0            | 32               | 0.2              | 0.2              | 0.2           | 34              | 0.21            | 0.236 |
| L4450N 7337.5E                   | Soil             | 0.5              | 18.0             | 19.1           | 55               | <0.1             | 7.8              | 4.1            | 1150            | 1.10             | 18.3            | 0.3              | 2.9              | 0.4            | 22               | 0.4              | 0.5              | 0.4           | 27              | 0.20            | 0.075 |
| REP L4450N 7337.5E               | QC               | 0.6              | 16.9             | 19.1           | 53               | <0.1             | 7.8              | 4.3            | 1175            | 1.11             | 17.6            | 0.3              | 3.0              | 0.4            | 21               | 0.2              | 0.4              | 0.4           | 28              | 0.19            | 0.077 |
| L4450N 7625E                     | Soil             | 0.4              | 16.7             | 8.5            | 103              | 0.1              | 16.2             | 6.0            | 809             | 1.74             | 6.9             | 0.6              | 3.1              | 2.2            | 51               | 0.5              | 0.2              | 0.1           | 48              | 0.66            | 0.155 |
| REP L4450N 7625E                 | QC               | 0.4              | 17.7             | 8.4            | 107              | 0.1              | 17.2             | 6.4            | 835             | 1.84             | 7.2             | 0.5              | 3.2              | 2.2            | 52               | 0.4              | 0.2              | 0.1           | 49              | 0.67            | 0.153 |
| L4400N 7450E                     | Soil             | 0.5              | 20.4             | 6.9            | 52               | 0.1              | 17.8             | 6.4            | 358             | 1.68             | 19.5            | 0.4              | 2.4              | 2.8            | 32               | 0.1              | 0.1              | 0.1           | 38              | 0.24            | 0.198 |
| REP L4400N 7450E                 | QC               | 0.5              | 21.7             | 7.1            | 54               | 0.1              | 18.1             | 6.6            | 348             | 1.63             | 20.0            | 0.4              | 2.0              | 2.8            | 33               | 0.1              | 0.2              | 0.1           | 36              | 0.24            | 0.194 |
| L4350N 7200E                     | Soil             | 0.5              | 28.1             | 12.1           | 83               | <0.1             | 23.2             | 7.3            | 629             | 1.80             | 17.8            | 0.5              | 6.9              | 2.5            | 27               | 0.3              | 0.3              | 0.2           | 36              | 0.28            | 0.132 |
| REP L4350N 7200E                 | QC               | 0.5              | 27.8             | 12.1           | 88               | <0.1             | 22.4             | 7.3            | 647             | 1.81             | 18.9            | 0.5              | 3.1              | 2.6            | 28               | 0.3              | 0.3              | 0.2           | 37              | 0.26            | 0.129 |
| L4350N 7412.5E                   | Soil             | 0.6              | 15.7             | 8.8            | 83               | <0.1             | 13.3             | 6.2            | 595             | 1.72             | 8.4             | 0.4              | 13.5             | 2.4            | 30               | 0.2              | 0.2              | 0.2           | 33              | 0.22            | 0.070 |
| REP L4350N 7412.5E               | QC               | 0.6              | 15.4             | 8.6            | 80               | <0.1             | 13.4             | 6.2            | 617             | 1.75             | 8.9             | 0.4              | 1.4              | 2.3            | 32               | 0.2              | 0.2              | 0.2           | 37              | 0.22            | 0.073 |
| L4350N 7650E                     | Soil             | 0.4              | 29.2             | 8.7            | 51               | 0.1              | 21.8             | 6.5            | 386             | 1.82             | 18.2            | 0.7              | 6.2              | 3.5            | 29               | 0.2              | 0.2              | 0.2           | 44              | 0.28            | 0.115 |
| REP L4350N 7650E                 | QC               | 0.4              | 29.5             | 8.3            | 53               | 0.1              | 22.2             | 6.7            | 366             | 1.76             | 17.9            | 0.7              | 4.4              | 3.4            | 28               | 0.1              | 0.2              | 0.2           | 42              | 0.28            | 0.106 |
| L4300N 7237.5E                   | Soil             | 0.5              | 31.9             | 6.7            | 46               | 0.1              | 20.0             | 7.4            | 370             | 1.82             | 16.5            | 0.6              | 3.0              | 2.8            | 25               | 0.1              | 0.2              | 0.3           | 43              | 0.22            | 0.161 |
| REP L4300N 7237.5E               | QC               | 0.5              | 31.9             | 7.2            | 49               | 0.1              | 21.6             | 7.6            | 366             | 1.84             | 16.9            | 0.5              | 2.7              | 2.8            | 24               | 0.1              | 0.2              | 0.3           | 45              | 0.23            | 0.164 |
| L4300N 7537.5E                   | Soil             | 0.3              | 17.2             | 5.3            | 83               | 0.1              | 17.0             | 5.6            | 376             | 1.45             | 11.8            | 0.3              | 42.6             | 2.1            | 26               | <0.1             | 0.1              | 0.1           | 28              | 0.20            | 0.250 |
| REP L4300N 7537.5E               | QC               | 0.4              | 15.8             | 5.1            | 77               | 0.1              | 16.4             | 5.5            | 364             | 1.45             | 11.7            | 0.3              | 0.8              | 2.1            | 25               | 0.1              | 0.1              | 0.1           | 26              | 0.19            | 0.241 |
| L4250N 7262.5E                   | Soil             | 0.5              | 17.5             | 9.3            | 53               | <0.1             | 9.8              | 6.7            | 930             | 1.43             | 12.3            | 0.3              | 3.4              | 0.4            | 15               | 0.2              | 0.3              | 0.3           | 39              | 0.14            | 0.098 |
| REP L4250N 7262.5E               | QC               | 0.6              | 20.0             | 9.4            | 53               | <0.1             | 9.7              | 6.9            | 957             | 1.59             | 12.5            | 0.4              | 0.6              | 0.4            | 15               | 0.3              | 0.3              | 0.3           | 39              | 0.14            | 0.102 |
| L4250N 7362.5E                   | Soil             | 0.4              | 48.1             | 8.4            | 75               | 0.1              | 25.3             | 9.4            | 376             | 2.03             | 17.0            | 0.6              | 2.1              | 2.6            | 24               | 0.2              | 0.2              | 0.2           | 44              | 0.21            | 0.134 |
| REP L4250N 7362.5E               | QC               | 0.4              | 46.5             | 8.8            | 70               | 0.1              | 24.1             | 9.3            | 374             | 1.94             | 16.7            | 0.6              | 3.7              | 2.6            | 24               | 0.2              | 0.2              | 0.2           | 41              | 0.21            | 0.131 |
| L4200N 7175E                     | Soil             | 0.4              | 20.2             | 6.2            | 58               | <0.1             | 14.4             | 5.6            | 414             | 1.44             | 24.4            | 0.3              | 2.2              | 1.7            | 20               | 0.1              | 0.2              | 0.1           | 28              | 0.20            | 0.182 |
| REP L4200N 7175E                 | QC               | 0.3              | 20.6             | 6.4            | 56               | 0.1              | 12.5             | 5.7            | 405             | 1.47             | 24.0            | 0.3              | 2.7              | 1.7            | 20               | 0.2              | 0.2              | 0.2           | 30              | 0.18            | 0.180 |

**QUALITY CONTROL REPORT**

**VAN07002982.1**

| Method             | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte            | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit               | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL                | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| Pulp Duplicates    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| L4500N 7337.5E     | Soil  | 14    | 24    | 0.34  | 217   | 0.106 | 2     | 2.27  | 0.021 | 0.08  | 0.2   | 0.03  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| REP L4500N 7337.5E | QC    | 13    | 25    | 0.34  | 211   | 0.109 | 2     | 2.28  | 0.024 | 0.08  | 0.3   | 0.03  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L4500N 7525E       | Soil  | 13    | 24    | 0.29  | 121   | 0.085 | 2     | 1.55  | 0.023 | 0.10  | 0.2   | 0.01  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4500N 7525E   | QC    | 14    | 25    | 0.28  | 118   | 0.086 | 2     | 1.51  | 0.023 | 0.09  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4450N 7237.5E     | Soil  | 11    | 27    | 0.33  | 200   | 0.109 | 3     | 2.26  | 0.025 | 0.11  | 0.1   | 0.02  | 3.0   | <0.1  | <0.05 | 6     | <0.5 |
| REP L4450N 7237.5E | QC    | 12    | 27    | 0.33  | 195   | 0.107 | 2     | 2.31  | 0.026 | 0.11  | 0.2   | 0.03  | 2.9   | 0.1   | <0.05 | 6     | <0.5 |
| L4450N 7337.5E     | Soil  | 5     | 12    | 0.19  | 156   | 0.062 | 1     | 0.90  | 0.021 | 0.06  | 0.1   | 0.03  | 1.0   | <0.1  | <0.05 | 4     | <0.5 |
| REP L4450N 7337.5E | QC    | 5     | 13    | 0.19  | 150   | 0.064 | 2     | 0.92  | 0.021 | 0.06  | <0.1  | 0.03  | 1.0   | <0.1  | <0.05 | 4     | <0.5 |
| L4450N 7625E       | Soil  | 11    | 28    | 0.34  | 227   | 0.060 | 3     | 1.34  | 0.019 | 0.09  | 0.2   | 0.03  | 2.3   | 0.1   | <0.05 | 4     | <0.5 |
| REP L4450N 7625E   | QC    | 12    | 30    | 0.34  | 230   | 0.061 | 2     | 1.34  | 0.017 | 0.10  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 4     | <0.5 |
| L4400N 7450E       | Soil  | 10    | 21    | 0.21  | 167   | 0.095 | 3     | 2.20  | 0.021 | 0.12  | 0.3   | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4400N 7450E   | QC    | 10    | 20    | 0.21  | 176   | 0.096 | 3     | 2.23  | 0.020 | 0.12  | 0.2   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4350N 7200E       | Soil  | 9     | 25    | 0.33  | 168   | 0.090 | 1     | 1.60  | 0.025 | 0.11  | 0.2   | 0.03  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4350N 7200E   | QC    | 9     | 26    | 0.32  | 173   | 0.091 | 2     | 1.62  | 0.024 | 0.11  | 0.2   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | <0.5 |
| L4350N 7412.5E     | Soil  | 7     | 23    | 0.34  | 174   | 0.075 | 2     | 1.75  | 0.021 | 0.17  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4350N 7412.5E | QC    | 8     | 23    | 0.34  | 186   | 0.081 | 1     | 1.76  | 0.020 | 0.18  | <0.1  | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L4350N 7650E       | Soil  | 16    | 27    | 0.36  | 133   | 0.088 | 1     | 1.93  | 0.025 | 0.11  | 0.1   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4350N 7650E   | QC    | 16    | 24    | 0.36  | 128   | 0.087 | 2     | 1.75  | 0.023 | 0.11  | 0.2   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L4300N 7237.5E     | Soil  | 9     | 27    | 0.33  | 187   | 0.097 | 2     | 1.87  | 0.022 | 0.12  | 0.2   | 0.02  | 2.8   | <0.1  | <0.05 | 6     | <0.5 |
| REP L4300N 7237.5E | QC    | 10    | 28    | 0.33  | 186   | 0.100 | 2     | 1.96  | 0.023 | 0.12  | 0.2   | 0.02  | 2.9   | <0.1  | <0.05 | 6     | <0.5 |
| L4300N 7537.5E     | Soil  | 6     | 18    | 0.21  | 194   | 0.072 | 2     | 1.55  | 0.017 | 0.10  | 0.1   | <0.01 | 1.8   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4300N 7537.5E | QC    | 6     | 17    | 0.20  | 194   | 0.070 | 2     | 1.42  | 0.016 | 0.09  | 0.2   | 0.01  | 1.8   | <0.1  | <0.05 | 5     | <0.5 |
| L4250N 7262.5E     | Soil  | 5     | 14    | 0.23  | 111   | 0.062 | 1     | 1.46  | 0.012 | 0.06  | 0.1   | 0.01  | 1.2   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4250N 7262.5E | QC    | 5     | 16    | 0.23  | 118   | 0.064 | <1    | 1.48  | 0.014 | 0.06  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 6     | <0.5 |
| L4250N 7362.5E     | Soil  | 13    | 32    | 0.39  | 165   | 0.087 | 2     | 1.87  | 0.020 | 0.14  | 0.1   | 0.01  | 3.2   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4250N 7362.5E | QC    | 13    | 34    | 0.39  | 160   | 0.082 | <1    | 1.87  | 0.019 | 0.14  | 0.2   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L4200N 7175E       | Soil  | 6     | 17    | 0.25  | 132   | 0.075 | <1    | 1.56  | 0.019 | 0.09  | <0.1  | 0.03  | 1.8   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4200N 7175E   | QC    | 5     | 17    | 0.24  | 134   | 0.074 | <1    | 1.55  | 0.017 | 0.08  | 0.1   | 0.02  | 1.6   | <0.1  | <0.05 | 5     | <0.5 |

**QUALITY CONTROL REPORT**

**VAN07002982.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                     |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P      |
|                     |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %      |
|                     |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001  |
| L4200N 7437.5E      | Soil     | 0.4   | 29.6  | 8.3   | 30    | 0.2   | 23.3  | 7.2   | 226   | 1.84  | 16.0  | 0.5   | 3.4   | 3.2   | 49    | <0.1  | 0.2   | 0.2   | 33    | 0.41  | 0.030  |
| REP L4200N 7437.5E  | QC       | 0.5   | 29.0  | 8.5   | 31    | 0.2   | 22.0  | 6.7   | 225   | 1.83  | 16.2  | 0.5   | 1.9   | 3.2   | 50    | 0.1   | 0.2   | 0.2   | 35    | 0.40  | 0.031  |
| L4200N 7575E        | Soil     | 0.5   | 27.5  | 8.7   | 108   | 0.1   | 23.4  | 7.9   | 494   | 1.82  | 20.2  | 0.5   | 1.6   | 3.1   | 32    | 0.4   | 0.2   | 0.2   | 39    | 0.30  | 0.203  |
| REP L4200N 7575E    | QC       | 0.4   | 27.2  | 8.4   | 112   | 0.1   | 24.3  | 7.9   | 480   | 1.76  | 19.6  | 0.5   | 2.1   | 2.8   | 31    | 0.4   | 0.2   | 0.2   | 39    | 0.29  | 0.197  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 19.5  | 102.8 | 68.8  | 414   | 0.8   | 57.8  | 9.7   | 609   | 2.38  | 52.9  | 4.9   | 71.2  | 4.3   | 70    | 6.6   | 6.4   | 4.7   | 83    | 0.90  | 0.080  |
| STD DS7             | Standard | 20.9  | 102.0 | 69.5  | 405   | 0.8   | 56.4  | 9.4   | 591   | 2.23  | 52.4  | 5.0   | 65.3  | 4.3   | 69    | 6.3   | 6.0   | 4.5   | 82    | 0.86  | 0.080  |
| STD DS7             | Standard | 20.8  | 98.8  | 77.7  | 390   | 0.9   | 55.2  | 8.9   | 608   | 2.28  | 49.1  | 5.7   | 73.2  | 5.5   | 85    | 6.6   | 7.1   | 5.3   | 88    | 0.97  | 0.077  |
| STD DS7             | Standard | 20.5  | 106.8 | 76.1  | 406   | 0.8   | 56.1  | 9.4   | 648   | 2.49  | 51.3  | 5.4   | 60.0  | 5.1   | 82    | 5.9   | 6.4   | 5.0   | 84    | 0.98  | 0.077  |
| STD DS7             | Standard | 21.4  | 105.6 | 78.1  | 393   | 0.8   | 56.3  | 9.9   | 617   | 2.35  | 50.9  | 5.8   | 66.3  | 5.4   | 78    | 6.7   | 6.9   | 5.1   | 89    | 0.94  | 0.076  |
| STD DS7             | Standard | 20.7  | 104.7 | 83.6  | 412   | 0.8   | 55.8  | 9.3   | 630   | 2.41  | 50.6  | 5.7   | 72.2  | 5.4   | 88    | 6.2   | 7.4   | 5.7   | 89    | 1.00  | 0.079  |
| STD DS7             | Standard | 21.4  | 104.4 | 68.7  | 404   | 0.8   | 58.8  | 10.0  | 619   | 2.41  | 47.9  | 4.8   | 64.4  | 4.5   | 67    | 5.8   | 5.6   | 4.1   | 96    | 1.02  | 0.074  |
| STD DS7             | Standard | 18.0  | 93.3  | 65.7  | 385   | 0.8   | 54.7  | 8.4   | 559   | 2.28  | 47.5  | 4.4   | 60.4  | 4.2   | 69    | 5.8   | 5.7   | 4.2   | 90    | 0.89  | 0.070  |
| STD DS7 Expected    |          | 20.92 | 109   | 70.6  | 411   | 0.89  | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 68.7  | 6.38  | 5.86  | 4.51  | 86    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |

**QUALITY CONTROL REPORT**

**VAN07002982.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |          | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se   |
|                     |          | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm  |
|                     |          | 1     | 1     | 0.01  | 1     | 0.001  | 1     | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.01  | 0.05  | 1     | 0.5  |
| L4200N 7437.5E      | Soil     | 22    | 21    | 0.28  | 136   | 0.116  | 1     | 2.00  | 0.041  | 0.08  | 0.1   | 0.01  | 2.8   | 0.1   | <0.05 | 5     | 1.0  |
| REP L4200N 7437.5E  | QC       | 21    | 23    | 0.28  | 134   | 0.115  | 3     | 2.03  | 0.042  | 0.08  | 0.1   | <0.01 | 2.6   | 0.1   | <0.05 | 5     | <0.5 |
| L4200N 7575E        | Soil     | 8     | 32    | 0.42  | 173   | 0.114  | 2     | 1.83  | 0.030  | 0.10  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| REP L4200N 7575E    | QC       | 8     | 30    | 0.42  | 169   | 0.113  | 3     | 1.75  | 0.030  | 0.10  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |      |
| STD DS7             | Standard | 11    | 175   | 0.99  | 378   | 0.100  | 37    | 0.91  | 0.084  | 0.43  | 4.0   | 0.22  | 2.2   | 4.4   | 0.14  | 5     | 4.0  |
| STD DS7             | Standard | 11    | 182   | 0.96  | 367   | 0.106  | 41    | 0.92  | 0.084  | 0.42  | 3.9   | 0.21  | 2.0   | 4.2   | 0.22  | 5     | 3.1  |
| STD DS7             | Standard | 14    | 200   | 1.02  | 350   | 0.138  | 39    | 0.99  | 0.091  | 0.43  | 3.8   | 0.19  | 2.5   | 4.4   | 0.20  | 5     | 4.1  |
| STD DS7             | Standard | 14    | 207   | 1.02  | 377   | 0.125  | 37    | 1.01  | 0.097  | 0.47  | 3.8   | 0.20  | 2.7   | 4.0   | 0.21  | 5     | 3.5  |
| STD DS7             | Standard | 15    | 201   | 1.03  | 378   | 0.132  | 42    | 1.03  | 0.093  | 0.44  | 3.7   | 0.20  | 2.8   | 4.3   | 0.20  | 5     | 3.6  |
| STD DS7             | Standard | 13    | 205   | 1.07  | 381   | 0.125  | 47    | 1.04  | 0.101  | 0.45  | 4.1   | 0.19  | 2.6   | 4.4   | 0.20  | 5     | 3.7  |
| STD DS7             | Standard | 13    | 220   | 1.04  | 390   | 0.122  | 40    | 1.06  | 0.090  | 0.45  | 4.2   | 0.21  | 2.6   | 4.4   | 0.20  | 5     | 4.0  |
| STD DS7             | Standard | 13    | 188   | 0.93  | 363   | 0.114  | 36    | 0.89  | 0.087  | 0.40  | 3.4   | 0.19  | 2.3   | 3.6   | 0.18  | 5     | 3.6  |
| STD DS7 Expected    |          | 12.7  | 163   | 1.05  | 370.3 | 0.124  | 38.6  | 0.959 | 0.073  | 0.44  | 3.8   | 0.2   | 2.5   | 4.19  | 0.21  | 4.6   | 3.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |



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Submitted By: Ellen Clements

Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.

Received: October 15, 2007

Report Date: January 15, 2008

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## CERTIFICATE OF ANALYSIS

VAN07002983.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number: 2007-11  
Number of Samples: 276

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

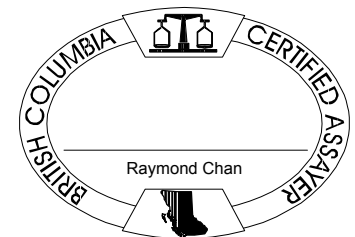
Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code  | Number of Samples | Code Description                           | Test Wgt (g) | Report Status |
|--------------|-------------------|--------------------------------------------|--------------|---------------|
| Split Reject | 276               | Reject sample split/packet                 |              |               |
| SS80         | 276               | Dry at 60C sieve 100g to -80 mesh          |              |               |
| Dry at 60C   | 276               | Dry at 60C                                 |              |               |
| 1DX          | 276               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.





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Project: 41

Report Date: January 15, 2008

Page: 2 of 11 Part 1

# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4150N 7150E            | Soil             | 0.4              | 21.5             | 7.0            | 61               | <0.1             | 15.1             | 5.9            | 517             | 1.47             | 20.7            | 0.4              | 1.1              | 2.1            | 28               | 0.2              | 0.2              | 0.2           | 31              | 0.20            | 0.188 |
| L4150N 7162.5E          | Soil             | 0.5              | 23.6             | 7.2            | 56               | <0.1             | 15.9             | 6.7            | 457             | 1.63             | 16.3            | 0.5              | 1.9              | 2.3            | 16               | 0.2              | 0.1              | 0.2           | 37              | 0.11            | 0.136 |
| L4150N 7175E            | Soil             | 0.3              | 11.5             | 11.4           | 66               | <0.1             | 7.6              | 4.1            | 1003            | 1.07             | 10.3            | 0.3              | 1.5              | 1.0            | 29               | 0.4              | 0.2              | 0.2           | 22              | 0.24            | 0.168 |
| L4150N 7187.5E          | Soil             | 0.4              | 18.8             | 7.5            | 66               | <0.1             | 14.8             | 6.8            | 797             | 1.52             | 12.7            | 0.5              | 7.8              | 1.9            | 25               | 0.3              | 0.2              | 0.1           | 32              | 0.17            | 0.168 |
| L4150N 7200E            | Soil             | 0.4              | 14.0             | 7.5            | 87               | 0.1              | 9.5              | 6.0            | 1297            | 1.51             | 18.0            | 0.4              | 0.8              | 1.4            | 24               | 0.3              | 0.2              | 0.2           | 30              | 0.19            | 0.258 |
| L4150N 7212.5E          | Soil             | 0.5              | 14.7             | 7.6            | 57               | <0.1             | 9.6              | 5.6            | 755             | 1.50             | 10.3            | 0.3              | 1.3              | 0.9            | 18               | 0.2              | 0.3              | 0.2           | 36              | 0.18            | 0.092 |
| L4150N 7225E            | Soil             | 0.6              | 19.4             | 10.1           | 49               | <0.1             | 9.6              | 6.1            | 963             | 1.34             | 8.8             | 0.4              | 1.5              | 0.3            | 16               | 0.5              | 0.3              | 0.2           | 33              | 0.16            | 0.077 |
| L4150N 7237.5E          | Soil             | 0.3              | 15.5             | 6.7            | 55               | <0.1             | 12.9             | 5.7            | 573             | 1.50             | 12.2            | 0.3              | <0.5             | 1.6            | 22               | 0.2              | 0.2              | 0.2           | 34              | 0.21            | 0.119 |
| L4150N 7250E            | Soil             | 0.4              | 14.2             | 6.0            | 56               | <0.1             | 10.5             | 5.0            | 764             | 1.35             | 6.6             | 0.3              | 3.3              | 1.4            | 23               | 0.4              | 0.2              | 0.1           | 32              | 0.20            | 0.098 |
| L4150N 7262.5E          | Soil             | 0.6              | 17.2             | 36.4           | 88               | 0.1              | 8.4              | 9.3            | 907             | 1.50             | 9.7             | 0.3              | 1.7              | 1.0            | 23               | 0.6              | 0.3              | 0.3           | 37              | 0.22            | 0.080 |
| L4150N 7275E            | Soil             | 0.4              | 14.5             | 7.0            | 45               | <0.1             | 10.8             | 4.9            | 306             | 1.36             | 8.8             | 0.3              | 1.3              | 1.4            | 15               | 0.2              | 0.2              | 0.1           | 35              | 0.13            | 0.067 |
| L4150N 7287.5E          | Soil             | 0.4              | 26.0             | 7.3            | 45               | <0.1             | 19.5             | 7.5            | 354             | 1.89             | 12.7            | 0.7              | 2.0              | 2.7            | 23               | 0.2              | 0.3              | 0.1           | 46              | 0.22            | 0.057 |
| L4150N 7300E            | Soil             | 0.5              | 26.7             | 10.5           | 56               | <0.1             | 18.6             | 8.0            | 586             | 1.95             | 13.3            | 0.7              | 6.0              | 2.1            | 27               | 0.3              | 0.3              | 0.2           | 48              | 0.31            | 0.070 |
| L4150N 7312.5E          | Soil             | 0.8              | 25.8             | 12.0           | 58               | 0.1              | 14.6             | 6.7            | 987             | 1.69             | 11.7            | 0.7              | 3.0              | 0.3            | 36               | 0.4              | 0.3              | 0.2           | 39              | 0.31            | 0.165 |
| L4150N 7325E            | Soil             | 1.1              | 32.7             | 61.1           | 100              | 0.2              | 16.6             | 11.5           | 735             | 2.26             | 21.2            | 0.9              | 2.7              | 1.4            | 20               | 0.7              | 0.4              | 0.3           | 53              | 0.18            | 0.221 |
| L4150N 7337.5E          | Soil             | 0.4              | 23.3             | 12.3           | 104              | <0.1             | 18.8             | 7.6            | 335             | 1.91             | 12.4            | 0.3              | 1.1              | 2.5            | 36               | 0.3              | 0.2              | 0.2           | 41              | 0.24            | 0.179 |
| L4150N 7350E            | Soil             | 0.4              | 25.8             | 7.9            | 66               | <0.1             | 24.2             | 7.1            | 403             | 1.70             | 9.9             | 0.3              | 14.7             | 2.6            | 23               | 0.2              | 0.2              | 0.2           | 37              | 0.19            | 0.092 |
| L4150N 7362.5E          | Soil             | 0.5              | 25.6             | 10.6           | 69               | 0.1              | 18.6             | 6.5            | 465             | 1.60             | 12.4            | 0.4              | 7.3              | 2.4            | 32               | 0.2              | 0.2              | 0.2           | 35              | 0.26            | 0.154 |
| L4150N 7375E            | Soil             | 0.3              | 19.3             | 7.2            | 70               | <0.1             | 19.0             | 6.1            | 472             | 1.51             | 13.2            | 0.3              | 1.0              | 2.1            | 33               | 0.1              | 0.2              | 0.2           | 31              | 0.21            | 0.207 |
| L4150N 7387.5E          | Soil             | 0.4              | 20.3             | 6.7            | 56               | 0.1              | 17.0             | 6.4            | 339             | 1.50             | 10.4            | 0.6              | 6.0              | 2.1            | 24               | <0.1             | 0.1              | 0.1           | 31              | 0.19            | 0.091 |
| L4150N 7400E            | Soil             | 0.4              | 22.0             | 7.5            | 70               | <0.1             | 20.7             | 6.5            | 417             | 1.59             | 12.1            | 0.7              | 2.0              | 2.6            | 20               | <0.1             | 0.2              | 0.1           | 31              | 0.17            | 0.120 |
| L4150N 7412.5E          | Soil             | 0.5              | 15.6             | 7.7            | 54               | 0.1              | 16.3             | 5.6            | 436             | 1.47             | 6.3             | 0.5              | 1.2              | 2.0            | 37               | <0.1             | 0.2              | 0.2           | 28              | 0.37            | 0.028 |
| L4150N 7425E            | Soil             | 0.3              | 10.6             | 9.4            | 73               | <0.1             | 7.0              | 3.9            | 727             | 1.15             | 7.2             | 0.4              | 1.0              | 1.1            | 22               | 0.1              | 0.2              | 0.2           | 23              | 0.19            | 0.179 |
| L4150N 7437.5E          | Soil             | 0.4              | 18.5             | 7.0            | 59               | <0.1             | 17.4             | 6.3            | 382             | 1.67             | 12.9            | 0.4              | 4.3              | 2.7            | 34               | 0.2              | 0.2              | 0.2           | 33              | 0.26            | 0.255 |
| L4150N 7450E            | Soil             | 0.5              | 18.0             | 6.5            | 64               | <0.1             | 15.7             | 5.9            | 527             | 1.59             | 10.9            | 0.4              | 1.4              | 2.3            | 25               | 0.1              | 0.1              | 0.2           | 31              | 0.15            | 0.274 |
| L4150N 7462.5E          | Soil             | 0.6              | 25.3             | 8.2            | 69               | 0.2              | 20.8             | 7.8            | 331             | 1.96             | 17.6            | 0.6              | 5.0              | 2.9            | 25               | 0.1              | 0.2              | 0.2           | 41              | 0.21            | 0.134 |
| L4150N 7475E            | Soil             | 0.5              | 22.6             | 9.9            | 77               | 0.1              | 17.1             | 6.2            | 545             | 1.53             | 13.6            | 0.5              | 1.2              | 2.4            | 32               | 0.2              | 0.2              | 0.2           | 30              | 0.27            | 0.170 |
| L4150N 7487.5E          | Soil             | 0.7              | 21.2             | 8.4            | 75               | 0.1              | 17.2             | 6.6            | 514             | 1.77             | 15.2            | 0.5              | 0.8              | 3.1            | 28               | 0.2              | 0.2              | 0.2           | 37              | 0.24            | 0.161 |
| L4150N 7500E            | Soil             | 0.7              | 18.6             | 9.2            | 47               | <0.1             | 15.4             | 6.2            | 421             | 1.79             | 20.0            | 0.6              | 6.0              | 2.3            | 27               | 0.2              | 0.3              | 0.2           | 37              | 0.31            | 0.146 |
| L4150N 7512.5E          | Soil             | 1.2              | 38.4             | 10.5           | 87               | <0.1             | 45.0             | 10.1           | 568             | 2.31             | 26.6            | 0.6              | 1.7              | 2.9            | 33               | 0.3              | 0.4              | 0.2           | 48              | 0.39            | 0.046 |



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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4150N 7150E   | Soil  | 7     | 18    | 0.25  | 183   | 0.074 | 2     | 1.62  | 0.020 | 0.09  | 0.2   | 0.01  | 1.9   | <0.1  | 0.08  | 4     | <0.5 |
| L4150N 7162.5E | Soil  | 7     | 20    | 0.29  | 151   | 0.081 | <1    | 1.69  | 0.017 | 0.08  | 0.2   | 0.01  | 2.0   | 0.1   | 0.07  | 4     | <0.5 |
| L4150N 7175E   | Soil  | 4     | 10    | 0.16  | 198   | 0.062 | 2     | 1.15  | 0.019 | 0.07  | 0.2   | 0.03  | 1.3   | <0.1  | 0.08  | 3     | <0.5 |
| L4150N 7187.5E | Soil  | 7     | 19    | 0.29  | 211   | 0.079 | <1    | 1.58  | 0.018 | 0.09  | 0.1   | 0.02  | 2.1   | 0.1   | 0.05  | 5     | <0.5 |
| L4150N 7200E   | Soil  | 5     | 13    | 0.24  | 266   | 0.075 | 1     | 1.38  | 0.017 | 0.08  | 0.2   | 0.03  | 1.7   | <0.1  | 0.06  | 5     | <0.5 |
| L4150N 7212.5E | Soil  | 5     | 14    | 0.24  | 113   | 0.070 | <1    | 0.96  | 0.016 | 0.06  | 0.2   | 0.03  | 1.3   | <0.1  | 0.07  | 5     | <0.5 |
| L4150N 7225E   | Soil  | 6     | 13    | 0.20  | 108   | 0.046 | 1     | 1.03  | 0.014 | 0.05  | 0.1   | 0.04  | 0.9   | <0.1  | 0.08  | 4     | <0.5 |
| L4150N 7237.5E | Soil  | 5     | 19    | 0.28  | 178   | 0.067 | 2     | 1.27  | 0.016 | 0.06  | 0.1   | 0.02  | 1.6   | <0.1  | 0.06  | 4     | <0.5 |
| L4150N 7250E   | Soil  | 5     | 15    | 0.23  | 170   | 0.067 | 2     | 1.20  | 0.017 | 0.07  | 0.1   | 0.02  | 1.4   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7262.5E | Soil  | 5     | 13    | 0.25  | 134   | 0.073 | 1     | 1.02  | 0.020 | 0.06  | 0.2   | 0.03  | 1.7   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7275E   | Soil  | 5     | 16    | 0.25  | 88    | 0.070 | <1    | 1.04  | 0.019 | 0.05  | 0.1   | 0.02  | 1.2   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7287.5E | Soil  | 10    | 28    | 0.38  | 132   | 0.093 | <1    | 1.72  | 0.017 | 0.08  | 0.2   | 0.02  | 2.3   | 0.1   | <0.05 | 5     | <0.5 |
| L4150N 7300E   | Soil  | 13    | 29    | 0.39  | 143   | 0.088 | 1     | 1.86  | 0.017 | 0.12  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4150N 7312.5E | Soil  | 11    | 32    | 0.31  | 127   | 0.047 | 1     | 1.82  | 0.015 | 0.07  | 0.2   | 0.02  | 1.1   | <0.1  | 0.06  | 6     | <0.5 |
| L4150N 7325E   | Soil  | 11    | 31    | 0.38  | 70    | 0.086 | 1     | 2.45  | 0.011 | 0.07  | 0.2   | 0.04  | 2.6   | <0.1  | <0.05 | 8     | <0.5 |
| L4150N 7337.5E | Soil  | 8     | 26    | 0.40  | 208   | 0.091 | 3     | 1.72  | 0.019 | 0.13  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7350E   | Soil  | 9     | 23    | 0.29  | 172   | 0.080 | 2     | 1.62  | 0.021 | 0.12  | 0.2   | 0.01  | 2.1   | 0.1   | <0.05 | 4     | <0.5 |
| L4150N 7362.5E | Soil  | 9     | 21    | 0.27  | 190   | 0.071 | 2     | 1.36  | 0.019 | 0.12  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7375E   | Soil  | 6     | 19    | 0.24  | 195   | 0.075 | 2     | 1.49  | 0.020 | 0.11  | 0.2   | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7387.5E | Soil  | 8     | 17    | 0.22  | 142   | 0.087 | 2     | 1.77  | 0.030 | 0.08  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7400E   | Soil  | 9     | 19    | 0.24  | 132   | 0.097 | 1     | 2.00  | 0.025 | 0.10  | 0.1   | 0.03  | 1.9   | 0.1   | <0.05 | 5     | <0.5 |
| L4150N 7412.5E | Soil  | 10    | 17    | 0.24  | 114   | 0.090 | 2     | 1.67  | 0.033 | 0.07  | 0.1   | 0.02  | 1.7   | 0.1   | <0.05 | 3     | <0.5 |
| L4150N 7425E   | Soil  | 6     | 13    | 0.16  | 162   | 0.072 | 1     | 1.13  | 0.021 | 0.05  | 0.1   | 0.02  | 1.2   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7437.5E | Soil  | 8     | 21    | 0.28  | 225   | 0.084 | 2     | 1.92  | 0.019 | 0.09  | 0.2   | 0.02  | 2.1   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7450E   | Soil  | 8     | 20    | 0.24  | 219   | 0.078 | 2     | 1.82  | 0.021 | 0.09  | 0.2   | 0.01  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7462.5E | Soil  | 11    | 26    | 0.35  | 175   | 0.099 | 2     | 2.25  | 0.024 | 0.11  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L4150N 7475E   | Soil  | 9     | 19    | 0.24  | 221   | 0.080 | 3     | 1.63  | 0.023 | 0.12  | 0.2   | 0.01  | 2.1   | <0.1  | <0.05 | 4     | <0.5 |
| L4150N 7487.5E | Soil  | 11    | 22    | 0.30  | 207   | 0.090 | 3     | 1.95  | 0.022 | 0.10  | 0.2   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5 |
| L4150N 7500E   | Soil  | 10    | 21    | 0.30  | 129   | 0.102 | 2     | 2.17  | 0.027 | 0.09  | 0.1   | 0.03  | 2.0   | <0.1  | <0.05 | 6     | <0.5 |
| L4150N 7512.5E | Soil  | 15    | 35    | 0.49  | 131   | 0.117 | 3     | 2.15  | 0.027 | 0.13  | 0.1   | 0.02  | 2.8   | 0.2   | <0.05 | 6     | <0.5 |

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Project: 41

Report Date: January 15, 2008

Page: 3 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4150N 7525E            | Soil             | 1.0              | 28.0             | 11.0           | 79               | <0.1             | 33.3             | 9.8            | 447             | 2.25             | 26.5            | 0.4              | 2.5              | 2.3            | 26               | 0.2              | 0.3              | 0.2           | 49              | 0.27            | 0.116 |
| L4150N 7537.5E          | Soil             | 0.8              | 16.5             | 8.0            | 40               | <0.1             | 19.7             | 5.9            | 338             | 1.60             | 21.7            | 0.4              | 0.5              | 2.3            | 25               | <0.1             | 0.2              | 0.2           | 31              | 0.28            | 0.066 |
| L4150N 7550E            | Soil             | 0.9              | 31.7             | 9.2            | 47               | 0.1              | 20.7             | 8.3            | 361             | 2.49             | 16.2            | 0.9              | 6.5              | 6.0            | 32               | 0.1              | 0.4              | 0.1           | 64              | 0.43            | 0.099 |
| L4150N 7562.5E          | Soil             | 0.8              | 23.8             | 10.6           | 65               | 0.1              | 18.6             | 6.9            | 506             | 1.96             | 21.6            | 0.7              | 1.8              | 3.3            | 35               | 0.2              | 0.3              | 0.2           | 41              | 0.40            | 0.119 |
| L4150N 7587.5E          | Soil             | 0.8              | 26.3             | 13.9           | 54               | 0.1              | 18.4             | 6.3            | 280             | 1.99             | 22.1            | 0.7              | 4.6              | 4.7            | 33               | 0.2              | 0.4              | 0.2           | 43              | 0.35            | 0.070 |
| L4150N 7600E            | Soil             | 0.5              | 19.8             | 10.6           | 60               | <0.1             | 15.6             | 6.4            | 393             | 1.90             | 12.1            | 1.0              | 3.2              | 4.5            | 34               | 0.1              | 0.2              | 0.2           | 39              | 0.32            | 0.134 |
| L4150N 7612.5E          | Soil             | 0.5              | 27.8             | 10.0           | 84               | 0.1              | 19.1             | 7.0            | 333             | 2.01             | 7.5             | 0.7              | 2.1              | 4.3            | 37               | 0.2              | 0.2              | 0.2           | 43              | 0.46            | 0.031 |
| L4150N 7625E            | Soil             | 0.5              | 26.4             | 9.3            | 80               | <0.1             | 21.9             | 8.5            | 359             | 1.88             | 15.6            | 0.4              | 1.9              | 2.8            | 31               | 0.2              | 0.2              | 0.2           | 40              | 0.38            | 0.149 |
| L4150N 7637.5E          | Soil             | 0.6              | 10.7             | 7.8            | 61               | <0.1             | 9.0              | 4.7            | 427             | 1.19             | 8.6             | 0.3              | 1.2              | 1.3            | 22               | 0.1              | 0.2              | 0.2           | 27              | 0.23            | 0.080 |
| L4150N 7650E            | Soil             | 0.3              | 21.8             | 10.2           | 75               | <0.1             | 12.8             | 5.9            | 476             | 1.50             | 15.2            | 0.3              | 2.0              | 2.1            | 36               | 0.2              | 0.2              | 0.2           | 32              | 0.28            | 0.247 |
| L4100 7150E             | Soil             | 0.6              | 29.0             | 13.0           | 89               | 0.1              | 24.5             | 10.0           | 659             | 2.19             | 42.8            | 0.8              | 3.7              | 3.0            | 22               | 0.4              | 0.6              | 0.2           | 48              | 0.22            | 0.112 |
| L4100N 7162.5E          | Soil             | 0.7              | 37.8             | 14.1           | 74               | 0.1              | 34.0             | 11.8           | 427             | 2.41             | 16.0            | 0.8              | 7.7              | 3.6            | 19               | 0.1              | 0.3              | 0.2           | 56              | 0.18            | 0.072 |
| L4100N 7175E            | Soil             | 0.6              | 27.0             | 11.4           | 51               | <0.1             | 19.8             | 8.2            | 333             | 1.82             | 10.8            | 0.7              | 21.7             | 3.0            | 24               | 0.2              | 0.3              | 0.2           | 41              | 0.20            | 0.071 |
| L4100N 7187.5E          | Soil             | 0.6              | 20.4             | 13.8           | 52               | <0.1             | 16.3             | 7.0            | 590             | 1.58             | 10.8            | 0.6              | 2.5              | 2.2            | 27               | 0.2              | 0.3              | 0.2           | 39              | 0.24            | 0.078 |
| L4100N 7200E            | Soil             | 0.3              | 18.4             | 5.8            | 104              | 0.1              | 5.6              | 4.2            | 1692            | 0.99             | 6.5             | 0.2              | 1.5              | 0.7            | 38               | 0.7              | 0.2              | 0.1           | 23              | 0.32            | 0.122 |
| L4100N 7212.5E          | Soil             | 0.6              | 23.8             | 13.6           | 134              | 0.1              | 15.1             | 9.9            | 819             | 2.23             | 32.0            | 0.5              | 2.7              | 1.6            | 30               | 0.8              | 0.7              | 0.3           | 49              | 0.31            | 0.157 |
| L4100N 7225E            | Soil             | 0.4              | 24.3             | 8.6            | 66               | <0.1             | 17.0             | 7.3            | 413             | 1.58             | 7.3             | 1.0              | 2.5              | 2.4            | 29               | 0.3              | 0.2              | 0.2           | 39              | 0.32            | 0.035 |
| L4100N 7237.5E          | Soil             | 0.5              | 55.7             | 20.3           | 150              | 0.7              | 17.0             | 11.9           | 1231            | 1.89             | 9.4             | 1.1              | 4.3              | 2.3            | 52               | 1.3              | 0.4              | 0.3           | 45              | 0.69            | 0.054 |
| L4100N 7250E            | Soil             | 0.5              | 23.4             | 9.5            | 71               | 0.1              | 7.5              | 5.5            | 985             | 1.22             | 8.0             | 0.4              | 1.3              | 0.4            | 30               | 0.8              | 0.2              | 0.2           | 31              | 0.39            | 0.098 |
| L4100N 7262.5E          | Soil             | 0.4              | 25.8             | 8.0            | 59               | 0.2              | 6.5              | 6.6            | 980             | 1.41             | 12.3            | 0.5              | 2.4              | 0.8            | 46               | 0.6              | 0.3              | 0.2           | 34              | 0.48            | 0.189 |
| L4100N 7275E            | Soil             | 0.5              | 39.4             | 14.2           | 82               | 0.2              | 16.1             | 9.4            | 981             | 1.92             | 13.2            | 1.2              | 3.7              | 0.8            | 55               | 1.1              | 0.3              | 0.2           | 47              | 0.75            | 0.104 |
| L4100N 7287.5E          | Soil             | 0.5              | 27.4             | 16.3           | 68               | <0.1             | 13.9             | 7.8            | 985             | 1.67             | 11.8            | 0.6              | 4.1              | 0.6            | 41               | 0.7              | 0.5              | 0.2           | 39              | 0.47            | 0.094 |
| L4100N 7300E            | Soil             | 0.4              | 26.3             | 13.8           | 62               | <0.1             | 9.3              | 6.9            | 1379            | 1.45             | 17.0            | 0.5              | 14.6             | 0.7            | 50               | 0.6              | 0.4              | 0.3           | 32              | 0.41            | 0.173 |
| L4100N 7312.5E          | Soil             | 0.5              | 33.1             | 11.4           | 64               | 0.1              | 13.5             | 11.5           | 1245            | 2.23             | 16.0            | 0.7              | 4.2              | 2.0            | 57               | 0.4              | 0.4              | 0.2           | 46              | 0.52            | 0.219 |
| L4100N 7325E            | Soil             | 0.6              | 20.2             | 6.7            | 71               | <0.1             | 7.8              | 5.5            | 1359            | 1.17             | 7.4             | 0.2              | 1.1              | 1.2            | 48               | 0.3              | 0.2              | 0.1           | 25              | 0.29            | 0.136 |
| L4100N 7337.5E          | Soil             | 0.3              | 27.8             | 9.2            | 82               | <0.1             | 20.5             | 8.3            | 558             | 1.79             | 12.5            | 0.6              | 1.9              | 2.8            | 42               | 0.2              | 0.2              | 0.2           | 37              | 0.32            | 0.232 |
| L4100N 7350E            | Soil             | 0.3              | 25.8             | 7.8            | 78               | <0.1             | 17.3             | 6.5            | 589             | 1.54             | 13.9            | 0.8              | 1.2              | 2.4            | 37               | 0.2              | 0.3              | 0.2           | 28              | 0.37            | 0.196 |
| L4100N 7362.5E          | Soil             | 0.3              | 24.4             | 7.9            | 86               | <0.1             | 17.8             | 7.1            | 611             | 1.58             | 9.4             | 0.6              | 1.7              | 2.2            | 27               | 0.2              | 0.2              | 0.2           | 29              | 0.20            | 0.117 |
| L4100N 7375E            | Soil             | 0.6              | 33.2             | 10.3           | 69               | 0.2              | 27.1             | 9.6            | 312             | 2.11             | 18.8            | 1.2              | 2.5              | 3.2            | 34               | 0.2              | 0.2              | 0.2           | 46              | 0.29            | 0.027 |
| L4100N 7387.5E          | Soil             | 0.6              | 36.4             | 9.8            | 54               | 0.2              | 25.5             | 8.4            | 351             | 1.99             | 14.2            | 1.8              | 3.2              | 3.6            | 40               | 0.2              | 0.2              | 0.2           | 41              | 0.40            | 0.022 |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L4150N 7525E   | Soil  | 7     | 34    | 0.48  | 139   | 0.114 | 3     | 2.11  | 0.021 | 0.15  | 0.1   | 0.01  | 2.1   | 0.1   | <0.05 | 6     | <0.5  |
| L4150N 7537.5E | Soil  | 9     | 20    | 0.29  | 99    | 0.093 | 3     | 1.97  | 0.028 | 0.10  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5  |
| L4150N 7550E   | Soil  | 32    | 42    | 0.48  | 111   | 0.092 | 2     | 1.23  | 0.022 | 0.21  | 0.2   | <0.01 | 3.5   | <0.1  | 0.06  | 5     | <0.5  |
| L4150N 7562.5E | Soil  | 16    | 25    | 0.35  | 129   | 0.109 | 4     | 2.32  | 0.027 | 0.11  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5  |
| L4150N 7587.5E | Soil  | 29    | 28    | 0.31  | 103   | 0.085 | 3     | 1.73  | 0.020 | 0.08  | 0.2   | 0.02  | 2.7   | <0.1  | <0.05 | 5     | <0.5  |
| L4150N 7600E   | Soil  | 17    | 25    | 0.32  | 136   | 0.087 | 3     | 1.85  | 0.022 | 0.12  | 0.2   | 0.02  | 2.3   | <0.1  | <0.05 | 5     | <0.5  |
| L4150N 7612.5E | Soil  | 28    | 33    | 0.40  | 101   | 0.096 | 3     | 1.90  | 0.026 | 0.09  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 4     | <0.5  |
| L4150N 7625E   | Soil  | 7     | 31    | 0.41  | 120   | 0.102 | 3     | 1.80  | 0.024 | 0.11  | 0.1   | 0.01  | 2.1   | <0.1  | <0.05 | 5     | <0.5  |
| L4150N 7637.5E | Soil  | 4     | 15    | 0.18  | 83    | 0.064 | <1    | 1.01  | 0.021 | 0.05  | 0.1   | 0.01  | 1.0   | <0.1  | <0.05 | 3     | <0.5  |
| L4150N 7650E   | Soil  | 6     | 21    | 0.25  | 191   | 0.070 | 1     | 1.40  | 0.019 | 0.08  | 0.2   | 0.02  | 1.6   | <0.1  | <0.05 | 4     | <0.5  |
| L4100 7150E    | Soil  | 10    | 32    | 0.47  | 138   | 0.119 | 2     | 2.31  | 0.020 | 0.09  | 0.1   | 0.04  | 2.4   | 0.2   | <0.05 | 7     | <0.5  |
| L4100N 7162.5E | Soil  | 12    | 39    | 0.53  | 157   | 0.135 | 1     | 2.67  | 0.019 | 0.10  | 0.2   | 0.02  | 2.8   | 0.2   | <0.05 | 7     | <0.5  |
| L4100N 7175E   | Soil  | 10    | 25    | 0.35  | 148   | 0.116 | 2     | 2.41  | 0.025 | 0.07  | 0.2   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | <0.5  |
| L4100N 7187.5E | Soil  | 8     | 23    | 0.33  | 151   | 0.098 | 1     | 1.87  | 0.023 | 0.07  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7200E   | Soil  | 4     | 8     | 0.15  | 284   | 0.053 | 1     | 0.83  | 0.027 | 0.06  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 3     | <0.5  |
| L4100N 7212.5E | Soil  | 7     | 20    | 0.40  | 192   | 0.095 | 2     | 1.67  | 0.017 | 0.09  | 0.1   | 0.04  | 2.2   | 0.1   | <0.05 | 7     | 0.6   |
| L4100N 7225E   | Soil  | 10    | 23    | 0.36  | 94    | 0.098 | 1     | 1.64  | 0.027 | 0.07  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7237.5E | Soil  | 24    | 24    | 0.40  | 125   | 0.089 | 3     | 1.67  | 0.031 | 0.08  | 0.1   | 0.05  | 4.5   | 0.1   | <0.05 | 5     | 0.9   |
| L4100N 7250E   | Soil  | 6     | 12    | 0.21  | 94    | 0.059 | <1    | 1.23  | 0.029 | 0.05  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7262.5E | Soil  | 8     | 8     | 0.25  | 102   | 0.069 | 2     | 1.64  | 0.026 | 0.06  | 0.1   | 0.03  | 2.2   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7275E   | Soil  | 15    | 23    | 0.41  | 120   | 0.076 | 2     | 2.20  | 0.025 | 0.10  | <0.1  | 0.03  | 2.7   | 0.1   | 0.06  | 6     | 0.7   |
| L4100N 7287.5E | Soil  | 9     | 18    | 0.34  | 139   | 0.076 | 2     | 1.94  | 0.020 | 0.10  | <0.1  | 0.03  | 1.7   | <0.1  | <0.05 | 6     | <0.5  |
| L4100N 7300E   | Soil  | 6     | 11    | 0.24  | 178   | 0.067 | 3     | 1.57  | 0.020 | 0.09  | <0.1  | 0.05  | 1.7   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7312.5E | Soil  | 10    | 20    | 0.38  | 176   | 0.096 | 2     | 1.96  | 0.016 | 0.11  | 0.1   | 0.04  | 3.3   | 0.1   | <0.05 | 6     | <0.5  |
| L4100N 7325E   | Soil  | 5     | 12    | 0.18  | 293   | 0.061 | 3     | 1.00  | 0.025 | 0.11  | <0.1  | 0.02  | 1.6   | <0.1  | <0.05 | 3     | <0.5  |
| L4100N 7337.5E | Soil  | 11    | 22    | 0.30  | 183   | 0.098 | 3     | 2.01  | 0.027 | 0.14  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| L4100N 7350E   | Soil  | 11    | 17    | 0.25  | 174   | 0.098 | 2     | 2.13  | 0.032 | 0.10  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L4100N 7362.5E | Soil  | 11    | 18    | 0.26  | 210   | 0.095 | 2     | 2.09  | 0.034 | 0.09  | 0.1   | 0.03  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L4100N 7375E   | Soil  | 13    | 28    | 0.35  | 185   | 0.127 | 2     | 2.44  | 0.032 | 0.10  | 0.2   | 0.04  | 2.8   | 0.1   | <0.05 | 7     | <0.5  |
| L4100N 7387.5E | Soil  | 19    | 25    | 0.32  | 150   | 0.129 | 2     | 2.57  | 0.037 | 0.07  | 0.1   | 0.03  | 2.9   | 0.1   | <0.05 | 6     | <0.5  |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L4100N 7400E            | Soil             | 0.7              | 44.2             | 9.4            | 65               | 0.2              | 25.4             | 8.2            | 422             | 1.86             | 14.8            | 1.4              | 4.2              | 3.5            | 39               | 0.2              | 0.2              | 0.2           | 35              | 0.39            | 0.019 |
| L4100N 7412.5E          | Soil             | 0.8              | 62.8             | 7.9            | 52               | 0.2              | 28.7             | 6.3            | 291             | 1.51             | 20.3            | 0.9              | 3.7              | 2.5            | 36               | 0.2              | 0.3              | 0.2           | 30              | 0.43            | 0.018 |
| L4100N 7425E            | Soil             | 1.0              | 88.7             | 9.3            | 94               | 0.2              | 56.4             | 7.1            | 399             | 1.55             | 25.5            | 0.4              | 4.9              | 2.3            | 46               | 0.6              | 0.5              | 0.2           | 31              | 0.61            | 0.033 |
| L4100N 7437.5E          | Soil             | 0.7              | 36.1             | 10.9           | 197              | 0.1              | 38.5             | 8.6            | 332             | 1.98             | 18.8            | 0.6              | 2.2              | 2.3            | 34               | 0.3              | 0.3              | 0.3           | 39              | 0.42            | 0.101 |
| L4100N 7450E            | Soil             | 0.7              | 18.8             | 8.7            | 69               | <0.1             | 23.0             | 6.5            | 210             | 1.71             | 14.3            | 0.5              | 1.2              | 2.3            | 25               | <0.1             | 0.2              | 0.2           | 38              | 0.32            | 0.040 |
| L4100N 7462.5           | Soil             | 0.7              | 22.8             | 7.7            | 89               | <0.1             | 22.6             | 6.7            | 490             | 1.71             | 14.9            | 0.4              | 1.7              | 3.0            | 23               | 0.2              | 0.2              | 0.2           | 36              | 0.24            | 0.164 |
| L4100N 7475E            | Soil             | 1.4              | 87.5             | 11.2           | 80               | 0.2              | 83.5             | 7.8            | 420             | 1.91             | 26.2            | 0.6              | 4.1              | 2.8            | 50               | 0.7              | 0.7              | 0.2           | 39              | 0.83            | 0.046 |
| L4100N 7487.5E          | Soil             | 0.8              | 19.1             | 9.7            | 75               | 0.1              | 20.3             | 7.5            | 814             | 1.86             | 20.7            | 0.5              | 2.0              | 2.5            | 29               | 0.2              | 0.2              | 0.2           | 39              | 0.31            | 0.160 |
| L4100N 7500E            | Soil             | 0.6              | 18.1             | 7.4            | 73               | <0.1             | 16.2             | 5.9            | 703             | 1.53             | 14.0            | 0.4              | 1.3              | 2.0            | 25               | 0.2              | 0.2              | 0.2           | 34              | 0.23            | 0.141 |
| L4100N 7512.5E          | Soil             | 0.7              | 17.0             | 7.5            | 68               | <0.1             | 16.6             | 6.1            | 557             | 1.53             | 18.6            | 0.4              | 3.2              | 2.1            | 23               | 0.1              | 0.2              | 0.2           | 34              | 0.23            | 0.155 |
| L4100N 7525E            | Soil             | 0.9              | 20.4             | 8.2            | 84               | 0.1              | 20.1             | 7.1            | 480             | 1.76             | 18.5            | 0.5              | 3.9              | 2.5            | 17               | 0.1              | 0.2              | 0.2           | 38              | 0.19            | 0.189 |
| L4100N 7537.5E          | Soil             | 0.8              | 14.9             | 6.8            | 46               | <0.1             | 16.7             | 5.9            | 379             | 1.67             | 15.0            | 0.3              | 1.3              | 2.1            | 24               | <0.1             | 0.2              | 0.2           | 36              | 0.29            | 0.156 |
| L4100N 7550E            | Soil             | 0.6              | 31.7             | 6.9            | 47               | <0.1             | 18.9             | 7.4            | 256             | 2.06             | 16.0            | 0.8              | 3.1              | 4.1            | 23               | 0.1              | 0.3              | 0.1           | 53              | 0.28            | 0.073 |
| L4100N 7562.5E          | Soil             | 0.5              | 21.9             | 7.2            | 49               | 0.1              | 13.3             | 5.9            | 333             | 1.81             | 15.4            | 0.6              | 2.3              | 3.2            | 25               | 0.1              | 0.2              | 0.2           | 44              | 0.21            | 0.095 |
| L4100N 7575E            | Soil             | 0.6              | 16.1             | 11.0           | 69               | <0.1             | 12.7             | 4.9            | 567             | 1.50             | 11.5            | 0.4              | 1.8              | 2.3            | 51               | 0.2              | 0.2              | 0.2           | 34              | 0.60            | 0.134 |
| L4100N 7587.5E          | Soil             | 0.7              | 22.8             | 7.9            | 58               | 0.2              | 13.5             | 5.7            | 384             | 1.60             | 5.6             | 0.5              | 1.7              | 3.1            | 38               | 0.2              | 0.2              | 0.2           | 35              | 0.51            | 0.027 |
| L4100N 7600E            | Soil             | 0.4              | 19.4             | 20.3           | 122              | 0.2              | 18.6             | 8.0            | 488             | 2.17             | 12.9            | 1.5              | 3.6              | 4.3            | 53               | 0.3              | 0.2              | 0.2           | 45              | 0.53            | 0.293 |
| L4100N 7612.5E          | Soil             | 0.3              | 18.5             | 6.8            | 77               | <0.1             | 7.5              | 5.1            | 1040            | 1.14             | 7.8             | 0.4              | 1.8              | 1.4            | 22               | 0.4              | 0.1              | 0.2           | 27              | 0.20            | 0.243 |
| L4100N 7625E            | Soil             | 0.4              | 10.7             | 7.3            | 63               | <0.1             | 9.4              | 4.5            | 529             | 1.41             | 7.9             | 0.4              | 1.6              | 2.2            | 30               | 0.2              | 0.2              | 0.2           | 29              | 0.23            | 0.201 |
| L4100N 7637.5E          | Soil             | 0.5              | 14.8             | 13.8           | 56               | <0.1             | 10.8             | 5.4            | 602             | 1.55             | 10.4            | 0.7              | 2.5              | 2.5            | 31               | 0.3              | 0.3              | 0.2           | 34              | 0.30            | 0.128 |
| L4100N 7650E            | Soil             | 0.5              | 12.9             | 8.7            | 54               | <0.1             | 11.1             | 4.6            | 390             | 1.45             | 10.4            | 0.4              | <0.5             | 2.5            | 32               | 0.2              | 0.2              | 0.2           | 29              | 0.26            | 0.195 |
| L4050N 7150E            | Soil             | 0.4              | 16.6             | 10.0           | 64               | <0.1             | 14.9             | 6.2            | 668             | 1.65             | 9.3             | 0.6              | 1.6              | 2.8            | 29               | 0.3              | 0.2              | 0.2           | 36              | 0.20            | 0.134 |
| L4050N 7162.5E          | Soil             | 0.6              | 14.3             | 9.3            | 72               | <0.1             | 12.4             | 5.3            | 1017            | 1.48             | 13.9            | 0.5              | 1.2              | 1.6            | 40               | 0.4              | 0.3              | 0.2           | 30              | 0.29            | 0.280 |
| L4050N 7175E            | Soil             | 0.7              | 24.3             | 27.8           | 136              | <0.1             | 18.9             | 7.5            | 1050            | 1.92             | 45.3            | 0.5              | 3.5              | 2.3            | 30               | 1.5              | 1.0              | 0.4           | 43              | 0.24            | 0.133 |
| L4050N 7187.5E          | Soil             | 0.5              | 32.1             | 11.6           | 171              | 0.2              | 17.8             | 8.8            | 522             | 1.91             | 19.0            | 0.5              | 6.1              | 2.4            | 23               | 1.4              | 0.3              | 0.2           | 42              | 0.20            | 0.089 |
| L4050N 7200E            | Soil             | 0.3              | 22.9             | 9.8            | 60               | <0.1             | 17.8             | 7.1            | 463             | 1.69             | 10.8            | 0.6              | 0.7              | 2.6            | 22               | 0.3              | 0.3              | 0.2           | 35              | 0.21            | 0.047 |
| L4050N 7212.5E          | Soil             | 0.2              | 10.7             | 8.1            | 69               | <0.1             | 9.2              | 4.2            | 416             | 1.05             | 5.8             | 0.2              | 1.3              | 1.2            | 30               | 0.2              | 0.2              | 0.1           | 22              | 0.27            | 0.067 |
| L4050N 7225E            | Soil             | 0.3              | 12.8             | 8.3            | 70               | <0.1             | 8.2              | 4.4            | 679             | 1.20             | 7.9             | 0.3              | 0.6              | 1.4            | 38               | 0.4              | 0.2              | 0.2           | 25              | 0.32            | 0.178 |
| L4050N 7237.5E          | Soil             | 0.3              | 16.9             | 7.7            | 57               | <0.1             | 11.9             | 5.9            | 541             | 1.50             | 6.6             | 0.8              | 1.6              | 2.0            | 29               | 0.3              | 0.2              | 0.1           | 32              | 0.33            | 0.095 |
| L4050N 7250E            | Soil             | 0.5              | 22.8             | 10.7           | 71               | <0.1             | 19.9             | 8.9            | 768             | 1.82             | 12.7            | 0.5              | 1.9              | 2.3            | 36               | 0.4              | 0.4              | 0.2           | 42              | 0.34            | 0.085 |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L4100N 7400E   | Soil  | 19    | 24    | 0.30  | 123   | 0.120 | 1     | 2.28  | 0.037 | 0.08  | 0.1   | 0.02  | 2.9   | 0.1   | <0.05 | 6     | <0.5  |
| L4100N 7412.5E | Soil  | 17    | 21    | 0.25  | 89    | 0.099 | 1     | 1.96  | 0.040 | 0.06  | 0.1   | 0.02  | 2.4   | 0.1   | <0.05 | 4     | 0.6   |
| L4100N 7425E   | Soil  | 15    | 23    | 0.27  | 88    | 0.094 | 3     | 1.57  | 0.043 | 0.08  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 4     | <0.5  |
| L4100N 7437.5E | Soil  | 14    | 28    | 0.35  | 111   | 0.106 | 3     | 2.03  | 0.031 | 0.08  | <0.1  | 0.02  | 2.7   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7450E   | Soil  | 9     | 25    | 0.29  | 99    | 0.103 | 3     | 1.95  | 0.030 | 0.08  | <0.1  | 0.01  | 2.1   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7462.5  | Soil  | 11    | 27    | 0.29  | 152   | 0.104 | 3     | 1.97  | 0.026 | 0.12  | 0.1   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L4100N 7475E   | Soil  | 21    | 35    | 0.38  | 88    | 0.099 | 4     | 1.64  | 0.032 | 0.11  | 0.2   | 0.03  | 3.6   | 0.2   | <0.05 | 4     | 1.3   |
| L4100N 7487.5E | Soil  | 9     | 27    | 0.32  | 249   | 0.099 | 3     | 1.83  | 0.019 | 0.11  | 0.1   | 0.03  | 2.2   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7500E   | Soil  | 7     | 20    | 0.25  | 177   | 0.083 | 1     | 1.57  | 0.025 | 0.10  | 0.1   | 0.01  | 1.9   | <0.1  | <0.05 | 4     | <0.5  |
| L4100N 7512.5E | Soil  | 6     | 19    | 0.25  | 161   | 0.095 | 2     | 1.73  | 0.027 | 0.08  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7525E   | Soil  | 8     | 23    | 0.31  | 196   | 0.089 | 2     | 2.11  | 0.020 | 0.10  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 6     | <0.5  |
| L4100N 7537.5E | Soil  | 6     | 21    | 0.28  | 163   | 0.080 | 3     | 1.76  | 0.021 | 0.10  | 0.1   | 0.01  | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7550E   | Soil  | 20    | 36    | 0.42  | 114   | 0.084 | <1    | 1.32  | 0.019 | 0.16  | 0.2   | <0.01 | 3.0   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7562.5E | Soil  | 12    | 27    | 0.32  | 173   | 0.091 | 1     | 1.73  | 0.025 | 0.13  | 0.2   | <0.01 | 2.8   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7575E   | Soil  | 9     | 20    | 0.23  | 180   | 0.072 | 4     | 1.44  | 0.031 | 0.12  | 0.1   | 0.01  | 1.9   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7587.5E | Soil  | 23    | 23    | 0.27  | 92    | 0.082 | 2     | 1.44  | 0.031 | 0.08  | 0.1   | 0.02  | 2.6   | <0.1  | <0.05 | 4     | <0.5  |
| L4100N 7600E   | Soil  | 24    | 37    | 0.47  | 217   | 0.124 | 2     | 2.31  | 0.026 | 0.09  | 0.2   | 0.03  | 3.9   | 0.1   | <0.05 | 6     | 0.8   |
| L4100N 7612.5E | Soil  | 5     | 15    | 0.17  | 222   | 0.064 | 1     | 1.00  | 0.030 | 0.07  | <0.1  | 0.01  | 1.6   | <0.1  | <0.05 | 4     | <0.5  |
| L4100N 7625E   | Soil  | 7     | 17    | 0.23  | 210   | 0.069 | 2     | 1.24  | 0.019 | 0.07  | 0.1   | 0.01  | 1.5   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7637.5E | Soil  | 10    | 19    | 0.26  | 172   | 0.081 | 2     | 1.60  | 0.020 | 0.08  | 0.1   | 0.03  | 1.9   | <0.1  | <0.05 | 5     | <0.5  |
| L4100N 7650E   | Soil  | 7     | 16    | 0.25  | 210   | 0.092 | 1     | 1.78  | 0.020 | 0.08  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 6     | <0.5  |
| L4050N 7150E   | Soil  | 10    | 20    | 0.30  | 175   | 0.106 | 1     | 2.32  | 0.021 | 0.07  | 0.1   | 0.03  | 1.9   | 0.1   | <0.05 | 6     | <0.5  |
| L4050N 7162.5E | Soil  | 8     | 24    | 0.27  | 248   | 0.097 | 2     | 1.95  | 0.022 | 0.07  | <0.1  | 0.02  | 1.8   | <0.1  | <0.05 | 6     | <0.5  |
| L4050N 7175E   | Soil  | 11    | 25    | 0.39  | 206   | 0.098 | 2     | 1.81  | 0.019 | 0.09  | 0.2   | 0.05  | 2.1   | 0.2   | <0.05 | 7     | 0.6   |
| L4050N 7187.5E | Soil  | 11    | 24    | 0.39  | 186   | 0.084 | 2     | 1.62  | 0.019 | 0.09  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| L4050N 7200E   | Soil  | 10    | 22    | 0.34  | 145   | 0.110 | 2     | 2.13  | 0.030 | 0.10  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5  |
| L4050N 7212.5E | Soil  | 6     | 12    | 0.20  | 162   | 0.062 | 1     | 1.00  | 0.028 | 0.08  | <0.1  | 0.01  | 1.3   | <0.1  | <0.05 | 3     | <0.5  |
| L4050N 7225E   | Soil  | 7     | 12    | 0.22  | 259   | 0.063 | 2     | 1.07  | 0.029 | 0.09  | <0.1  | 0.02  | 2.0   | <0.1  | <0.05 | 3     | <0.5  |
| L4050N 7237.5E | Soil  | 11    | 19    | 0.29  | 156   | 0.085 | 2     | 1.52  | 0.029 | 0.09  | 0.1   | 0.03  | 2.4   | <0.1  | <0.05 | 4     | <0.5  |
| L4050N 7250E   | Soil  | 8     | 29    | 0.48  | 240   | 0.097 | 1     | 1.62  | 0.030 | 0.13  | 0.1   | 0.02  | 2.8   | 0.1   | <0.05 | 5     | <0.5  |

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Report Date: January 15, 2008

Page: 5 of 11 Part 1

# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4050N 7262.5E | Soil  | 0.4   | 23.6  | 6.9   | 63    | 0.1   | 10.2  | 5.8   | 851   | 1.37  | 10.8  | 0.9   | 1.6   | 1.1   | 44    | 0.6   | 0.3   | 0.2   | 30    | 0.49  | 0.074 |
| L4050N 7275E   | Soil  | 0.3   | 21.1  | 9.7   | 67    | <0.1  | 18.9  | 9.0   | 634   | 2.08  | 12.4  | 0.6   | 3.1   | 2.7   | 34    | 0.3   | 0.2   | 0.2   | 45    | 0.34  | 0.159 |
| L4050N 7287.5E | Soil  | 0.3   | 29.5  | 7.9   | 63    | <0.1  | 9.8   | 5.7   | 1211  | 1.32  | 9.0   | 0.8   | 1.8   | 1.2   | 49    | 0.6   | 0.3   | 0.2   | 31    | 0.56  | 0.129 |
| L4050N 7312.5E | Soil  | 0.4   | 26.8  | 9.7   | 60    | <0.1  | 16.8  | 8.3   | 707   | 2.01  | 14.3  | 0.6   | 0.9   | 2.9   | 63    | 0.3   | 0.3   | 0.2   | 42    | 0.38  | 0.224 |
| L4050N 7325E   | Soil  | 0.4   | 21.3  | 10.1  | 82    | <0.1  | 18.4  | 7.4   | 594   | 1.74  | 12.2  | 0.4   | 1.0   | 2.3   | 32    | 0.2   | 0.3   | 0.2   | 34    | 0.26  | 0.157 |
| L4050N 7337.5E | Soil  | 0.4   | 31.4  | 9.3   | 93    | 0.2   | 20.2  | 8.1   | 570   | 1.88  | 9.8   | 1.4   | 4.2   | 2.9   | 28    | 0.3   | 0.2   | 0.2   | 39    | 0.27  | 0.145 |
| L4050N 7350E   | Soil  | 0.4   | 16.6  | 7.8   | 76    | <0.1  | 12.7  | 5.2   | 637   | 1.23  | 9.7   | 0.3   | 1.0   | 1.4   | 31    | 0.3   | 0.2   | 0.2   | 26    | 0.27  | 0.142 |
| L4050N 7362.5E | Soil  | 0.4   | 30.4  | 8.7   | 72    | 0.2   | 22.5  | 8.4   | 360   | 1.86  | 12.3  | 1.0   | 1.7   | 3.0   | 31    | 0.3   | 0.2   | 0.2   | 39    | 0.26  | 0.050 |
| L4050N 7375E   | Soil  | 0.6   | 29.4  | 11.1  | 55    | 0.1   | 24.1  | 8.2   | 418   | 1.85  | 18.9  | 0.9   | 1.5   | 2.8   | 36    | 0.2   | 0.3   | 0.2   | 42    | 0.35  | 0.046 |
| L4050N 7387.5E | Soil  | 0.7   | 37.9  | 7.8   | 58    | 0.2   | 23.9  | 7.2   | 411   | 1.71  | 17.2  | 0.9   | 0.9   | 2.8   | 35    | 0.3   | 0.3   | 0.1   | 36    | 0.43  | 0.023 |
| L4050N 7400E   | Soil  | 0.9   | 68.7  | 4.8   | 42    | 0.1   | 14.7  | 4.2   | 530   | 1.06  | 13.4  | 0.5   | 1.2   | 1.2   | 30    | 0.4   | 0.4   | <0.1  | 27    | 0.49  | 0.033 |
| L4050N 7412.5E | Soil  | 2.4   | 218.3 | 17.2  | 153   | 0.2   | 92.0  | 7.5   | 755   | 1.55  | 44.5  | 0.7   | 3.0   | 1.9   | 54    | 1.4   | 0.9   | 0.4   | 35    | 0.96  | 0.055 |
| L4050N 7425E   | Soil  | 1.6   | 30.3  | 11.7  | 128   | 0.2   | 26.4  | 9.5   | 743   | 1.87  | 48.5  | 0.5   | 2.3   | 2.1   | 38    | 0.4   | 0.6   | 0.3   | 42    | 0.54  | 0.177 |
| L4050N 7462.5E | Soil  | 1.1   | 37.5  | 19.5  | 116   | 2.9   | 21.7  | 8.8   | 731   | 2.07  | 26.1  | 0.8   | 8.1   | 2.9   | 47    | 0.7   | 0.9   | 0.3   | 53    | 0.78  | 0.113 |
| L4050N 7475E   | Soil  | 1.0   | 41.1  | 13.9  | 97    | 0.8   | 23.3  | 10.2  | 608   | 2.28  | 22.2  | 0.8   | 3.6   | 3.6   | 34    | 0.6   | 0.5   | 0.3   | 60    | 0.44  | 0.114 |
| L4050N 7487.5E | Soil  | 0.9   | 46.8  | 15.1  | 104   | 0.6   | 25.6  | 10.7  | 621   | 2.43  | 22.8  | 0.8   | 2.9   | 3.8   | 34    | 0.6   | 0.4   | 0.4   | 63    | 0.36  | 0.118 |
| L4050N 7500E   | Soil  | 1.2   | 18.5  | 8.9   | 60    | 0.2   | 15.7  | 5.4   | 459   | 1.58  | 16.6  | 0.6   | 1.8   | 2.5   | 22    | 0.2   | 0.2   | 0.2   | 35    | 0.19  | 0.124 |
| L4050N 7512.5E | Soil  | 0.4   | 6.2   | 3.8   | 50    | <0.1  | 4.8   | 2.7   | 297   | 0.69  | 5.2   | 0.1   | <0.5  | 0.5   | 12    | 0.2   | 0.1   | 0.1   | 21    | 0.13  | 0.052 |
| L4050N 7525E   | Soil  | 0.3   | 6.2   | 3.1   | 27    | <0.1  | 2.7   | 1.7   | 276   | 0.53  | 8.6   | <0.1  | <0.5  | 0.3   | 19    | 0.2   | 0.1   | <0.1  | 15    | 0.20  | 0.047 |
| L4050N 7537.5E | Soil  | 0.9   | 26.3  | 9.1   | 41    | 0.2   | 18.3  | 8.9   | 352   | 2.55  | 21.1  | 0.8   | 8.9   | 6.3   | 33    | <0.1  | 0.5   | 0.2   | 70    | 0.45  | 0.112 |
| L4050N 7550E   | Soil  | 0.9   | 31.1  | 9.0   | 74    | <0.1  | 23.1  | 8.1   | 375   | 1.90  | 12.5  | 0.5   | 1.0   | 3.7   | 31    | 0.2   | 0.2   | 0.2   | 42    | 0.31  | 0.061 |
| L4050N 7562.5E | Soil  | 0.7   | 19.6  | 7.5   | 69    | <0.1  | 18.9  | 6.9   | 571   | 1.54  | 12.8  | 0.4   | <0.5  | 2.2   | 30    | 0.1   | 0.2   | 0.2   | 28    | 0.30  | 0.162 |
| L4050N 7575E   | Soil  | 1.6   | 46.1  | 12.8  | 83    | 0.7   | 31.5  | 10.9  | 617   | 2.30  | 43.7  | 0.8   | 5.5   | 3.0   | 34    | 0.4   | 0.8   | 0.3   | 51    | 0.42  | 0.104 |
| L4050N 7587.5E | Soil  | 0.7   | 34.8  | 13.8  | 72    | 0.2   | 21.3  | 8.3   | 482   | 1.79  | 16.4  | 0.7   | 3.7   | 3.1   | 37    | 0.4   | 0.4   | 0.3   | 42    | 0.47  | 0.084 |
| L4050N 7600E   | Soil  | 0.5   | 31.1  | 10.8  | 61    | 0.1   | 20.2  | 8.3   | 435   | 1.78  | 21.1  | 0.6   | 2.7   | 3.0   | 27    | 0.2   | 0.3   | 0.2   | 41    | 0.32  | 0.086 |
| L4050N 7612.5E | Soil  | 0.5   | 33.4  | 7.9   | 59    | 0.1   | 23.3  | 9.0   | 307   | 2.11  | 15.0  | 0.5   | 2.2   | 3.1   | 25    | 0.1   | 0.2   | 0.2   | 52    | 0.30  | 0.086 |
| L4050N 7625E   | Soil  | 0.3   | 19.7  | 6.6   | 41    | <0.1  | 15.6  | 6.8   | 291   | 1.60  | 12.0  | 0.4   | 0.8   | 2.2   | 17    | <0.1  | 0.2   | 0.1   | 36    | 0.21  | 0.068 |
| L4050N 7637.5E | Soil  | 0.2   | 15.3  | 7.7   | 113   | <0.1  | 8.9   | 4.4   | 700   | 1.19  | 7.3   | 0.5   | 2.3   | 1.7   | 43    | 0.3   | 0.2   | 0.2   | 25    | 0.47  | 0.149 |
| L4050N 7650E   | Soil  | 0.4   | 22.8  | 12.7  | 77    | 0.1   | 13.0  | 7.1   | 805   | 1.75  | 12.5  | 1.4   | 0.5   | 1.6   | 44    | 0.4   | 0.3   | 0.2   | 39    | 0.68  | 0.107 |
| L4000N 7150E   | Soil  | 0.4   | 17.3  | 7.6   | 50    | <0.1  | 16.6  | 6.9   | 480   | 1.57  | 9.7   | 0.3   | 1.3   | 1.7   | 15    | 0.2   | 0.3   | 0.2   | 38    | 0.19  | 0.072 |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4050N 7262.5E | Soil  | 11    | 16    | 0.27  | 132   | 0.060 | 1     | 1.22  | 0.026 | 0.07  | <0.1  | 0.03  | 2.1   | <0.1  | <0.05 | 4     | <0.5 |
| L4050N 7275E   | Soil  | 8     | 29    | 0.46  | 171   | 0.106 | 2     | 2.04  | 0.022 | 0.15  | 0.1   | 0.01  | 2.9   | 0.1   | <0.05 | 6     | <0.5 |
| L4050N 7287.5E | Soil  | 11    | 14    | 0.25  | 179   | 0.068 | 3     | 1.25  | 0.029 | 0.08  | <0.1  | 0.03  | 2.4   | 0.1   | <0.05 | 4     | 0.6  |
| L4050N 7312.5E | Soil  | 11    | 26    | 0.39  | 236   | 0.103 | 3     | 2.09  | 0.027 | 0.18  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 6     | <0.5 |
| L4050N 7325E   | Soil  | 8     | 24    | 0.36  | 215   | 0.092 | 3     | 1.74  | 0.026 | 0.14  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7337.5E | Soil  | 15    | 25    | 0.37  | 166   | 0.112 | 1     | 2.42  | 0.029 | 0.13  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | 0.7  |
| L4050N 7350E   | Soil  | 6     | 15    | 0.22  | 225   | 0.070 | 1     | 1.38  | 0.029 | 0.09  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 4     | <0.5 |
| L4050N 7362.5E | Soil  | 14    | 25    | 0.33  | 164   | 0.110 | 2     | 2.25  | 0.036 | 0.15  | 0.1   | 0.03  | 3.2   | 0.2   | <0.05 | 6     | <0.5 |
| L4050N 7375E   | Soil  | 14    | 28    | 0.33  | 155   | 0.105 | 2     | 1.90  | 0.039 | 0.10  | <0.1  | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5 |
| L4050N 7387.5E | Soil  | 16    | 26    | 0.31  | 120   | 0.107 | 2     | 2.06  | 0.039 | 0.07  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | 0.6  |
| L4050N 7400E   | Soil  | 22    | 17    | 0.18  | 67    | 0.063 | 3     | 0.92  | 0.048 | 0.06  | <0.1  | 0.01  | 2.4   | <0.1  | <0.05 | 2     | 0.7  |
| L4050N 7412.5E | Soil  | 27    | 25    | 0.31  | 89    | 0.080 | 5     | 1.52  | 0.037 | 0.09  | 0.2   | 0.03  | 4.4   | 0.2   | <0.05 | 4     | 0.6  |
| L4050N 7425E   | Soil  | 9     | 29    | 0.39  | 171   | 0.089 | 3     | 1.81  | 0.027 | 0.12  | 0.2   | 0.02  | 2.9   | 0.2   | <0.05 | 5     | 0.6  |
| L4050N 7462.5E | Soil  | 15    | 34    | 0.51  | 198   | 0.096 | 2     | 1.86  | 0.024 | 0.17  | 0.3   | 0.04  | 3.3   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7475E   | Soil  | 16    | 40    | 0.53  | 194   | 0.112 | 2     | 1.97  | 0.038 | 0.21  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 6     | 0.5  |
| L4050N 7487.5E | Soil  | 17    | 42    | 0.59  | 189   | 0.119 | 2     | 1.98  | 0.031 | 0.22  | 0.2   | <0.01 | 4.2   | 0.2   | <0.05 | 6     | <0.5 |
| L4050N 7500E   | Soil  | 13    | 18    | 0.26  | 168   | 0.090 | 2     | 1.98  | 0.021 | 0.08  | 0.2   | 0.03  | 2.2   | <0.1  | <0.05 | 5     | <0.5 |
| L4050N 7512.5E | Soil  | 3     | 7     | 0.10  | 63    | 0.045 | <1    | 0.53  | 0.021 | 0.07  | <0.1  | 0.01  | 0.7   | <0.1  | <0.05 | 2     | <0.5 |
| L4050N 7525E   | Soil  | 2     | 5     | 0.07  | 82    | 0.033 | 1     | 0.37  | 0.023 | 0.05  | <0.1  | 0.02  | 0.5   | <0.1  | <0.05 | 1     | <0.5 |
| L4050N 7537.5E | Soil  | 35    | 52    | 0.54  | 115   | 0.084 | 1     | 0.99  | 0.023 | 0.17  | 0.2   | 0.01  | 3.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4050N 7550E   | Soil  | 14    | 32    | 0.41  | 110   | 0.094 | 3     | 1.86  | 0.028 | 0.11  | 0.2   | 0.01  | 2.8   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7562.5E | Soil  | 8     | 25    | 0.30  | 155   | 0.079 | 2     | 1.75  | 0.024 | 0.10  | 0.2   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4050N 7575E   | Soil  | 16    | 37    | 0.52  | 143   | 0.087 | 2     | 1.56  | 0.024 | 0.19  | 0.2   | 0.03  | 3.4   | 0.2   | <0.05 | 5     | 0.5  |
| L4050N 7587.5E | Soil  | 14    | 30    | 0.40  | 146   | 0.083 | 2     | 1.46  | 0.023 | 0.13  | 0.2   | 0.03  | 2.8   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7600E   | Soil  | 10    | 28    | 0.38  | 153   | 0.091 | 3     | 1.78  | 0.025 | 0.12  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7612.5E | Soil  | 11    | 36    | 0.50  | 129   | 0.101 | 2     | 1.78  | 0.028 | 0.12  | 0.2   | 0.01  | 2.8   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7625E   | Soil  | 9     | 25    | 0.31  | 89    | 0.078 | 2     | 1.32  | 0.028 | 0.08  | 0.1   | 0.01  | 2.2   | <0.1  | <0.05 | 4     | <0.5 |
| L4050N 7637.5E | Soil  | 9     | 18    | 0.23  | 168   | 0.063 | 3     | 0.98  | 0.024 | 0.10  | <0.1  | 0.02  | 2.0   | <0.1  | <0.05 | 3     | <0.5 |
| L4050N 7650E   | Soil  | 16    | 28    | 0.40  | 132   | 0.083 | 3     | 1.66  | 0.024 | 0.10  | 0.1   | 0.03  | 2.8   | 0.1   | <0.05 | 5     | 0.7  |
| L4000N 7150E   | Soil  | 6     | 25    | 0.39  | 152   | 0.087 | 1     | 1.33  | 0.021 | 0.09  | 0.1   | <0.01 | 1.9   | <0.1  | <0.05 | 5     | <0.5 |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L4000N 7162.5E | Soil  | 0.5   | 31.0  | 9.6   | 98    | 0.1   | 20.4  | 9.9   | 683   | 2.17  | 6.7   | 0.9   | 2.1   | 2.7   | 28    | 0.6   | 0.3   | 0.2   | 46    | 0.39  | 0.062 |
| L4000N 7175E   | Soil  | 0.6   | 19.4  | 11.1  | 90    | <0.1  | 10.3  | 6.9   | 1490  | 1.70  | 12.7  | 0.4   | 1.1   | 0.9   | 23    | 1.0   | 0.4   | 0.3   | 34    | 0.29  | 0.169 |
| L4000N 7187.5E | Soil  | 0.6   | 19.5  | 9.5   | 52    | 0.1   | 11.1  | 6.0   | 756   | 1.50  | 8.8   | 0.5   | 1.8   | 0.2   | 17    | 0.5   | 0.3   | 0.2   | 35    | 0.19  | 0.069 |
| L4000N 7200E   | Soil  | 0.5   | 20.1  | 15.2  | 69    | 0.1   | 10.7  | 6.3   | 862   | 1.55  | 11.2  | 0.6   | 0.9   | 0.3   | 29    | 0.8   | 0.4   | 0.2   | 35    | 0.32  | 0.087 |
| L4000N 7212.5E | Soil  | 0.5   | 18.0  | 9.0   | 61    | <0.1  | 9.0   | 5.8   | 847   | 1.41  | 8.2   | 0.4   | 1.0   | 0.2   | 32    | 0.7   | 0.3   | 0.2   | 34    | 0.35  | 0.077 |
| L4000N 7225E   | Soil  | 0.4   | 22.2  | 17.0  | 77    | 0.1   | 13.0  | 6.8   | 758   | 1.68  | 11.9  | 1.1   | 11.5  | 0.9   | 44    | 1.1   | 0.4   | 0.2   | 40    | 0.64  | 0.085 |
| L4000N 7237.5E | Soil  | 0.5   | 24.4  | 13.0  | 110   | <0.1  | 14.3  | 7.8   | 1009  | 1.94  | 9.5   | 0.8   | 1.3   | 1.8   | 35    | 1.2   | 0.3   | 0.2   | 46    | 0.36  | 0.088 |
| L4000N 7250E   | Soil  | 0.5   | 24.4  | 12.5  | 70    | <0.1  | 16.1  | 7.3   | 531   | 1.90  | 10.7  | 0.7   | 1.7   | 2.8   | 34    | 0.5   | 0.4   | 0.2   | 44    | 0.30  | 0.040 |
| L4000N 7262.5E | Soil  | 0.4   | 26.9  | 9.6   | 70    | 0.1   | 11.8  | 6.4   | 861   | 1.46  | 9.1   | 0.6   | 0.9   | 0.7   | 36    | 0.9   | 0.3   | 0.2   | 34    | 0.39  | 0.081 |
| L4000N 7275E   | Soil  | 0.5   | 26.7  | 11.0  | 75    | <0.1  | 14.7  | 7.4   | 1121  | 1.78  | 12.9  | 0.7   | 2.7   | 1.6   | 38    | 0.7   | 0.4   | 0.2   | 43    | 0.40  | 0.093 |
| L4000N 7287.5E | Soil  | 0.6   | 34.5  | 25.9  | 104   | <0.1  | 19.1  | 9.8   | 1318  | 2.24  | 14.1  | 0.7   | 1.2   | 3.0   | 40    | 0.9   | 0.4   | 0.3   | 49    | 0.36  | 0.129 |
| L4000N 7300E   | Soil  | 0.5   | 25.8  | 15.1  | 91    | <0.1  | 16.5  | 7.9   | 749   | 1.97  | 10.2  | 0.6   | 1.9   | 2.7   | 31    | 0.4   | 0.3   | 0.2   | 38    | 0.25  | 0.094 |
| L4000N 7312.5E | Soil  | 0.3   | 21.2  | 10.1  | 57    | <0.1  | 14.2  | 5.7   | 479   | 1.55  | 10.5  | 0.6   | 1.1   | 2.2   | 32    | 0.2   | 0.2   | 0.2   | 27    | 0.31  | 0.131 |
| L4000N 7325E   | Soil  | 0.3   | 19.8  | 9.0   | 96    | 0.1   | 16.8  | 6.2   | 748   | 1.58  | 10.8  | 0.5   | 0.7   | 2.0   | 32    | 0.3   | 0.2   | 0.2   | 29    | 0.30  | 0.193 |
| L4000N 7337.5E | Soil  | 0.3   | 18.6  | 9.7   | 79    | <0.1  | 13.5  | 5.2   | 494   | 1.24  | 13.5  | 0.4   | 0.7   | 1.6   | 38    | 0.3   | 0.3   | 0.2   | 22    | 0.39  | 0.122 |
| L4000N 7350E   | Soil  | 0.9   | 36.1  | 8.2   | 67    | 0.1   | 30.1  | 10.3  | 423   | 2.43  | 20.7  | 0.8   | 2.4   | 3.5   | 30    | 0.2   | 0.4   | 0.2   | 60    | 0.43  | 0.060 |
| L4000N 7362.5E | Soil  | 0.5   | 25.8  | 5.2   | 59    | 0.2   | 15.7  | 5.0   | 425   | 1.25  | 11.2  | 0.7   | 0.8   | 1.7   | 29    | 0.2   | 0.2   | 0.1   | 25    | 0.42  | 0.036 |
| L4000N 7375E   | Soil  | 1.0   | 79.3  | 8.0   | 206   | 0.2   | 35.1  | 6.3   | 531   | 1.63  | 22.5  | 0.4   | 2.8   | 2.5   | 39    | 1.1   | 0.5   | 0.2   | 30    | 0.50  | 0.032 |
| L4000N 7387.5E | Soil  | 1.9   | 23.3  | 14.5  | 152   | 0.1   | 40.2  | 8.5   | 725   | 1.63  | 56.3  | 0.5   | 2.7   | 1.1   | 34    | 0.8   | 0.6   | 0.4   | 33    | 0.42  | 0.151 |
| L4000N 7400E   | Soil  | 1.2   | 31.7  | 11.5  | 127   | 0.1   | 38.7  | 9.1   | 695   | 1.42  | 31.3  | 0.3   | 3.3   | 0.6   | 62    | 0.9   | 0.5   | 0.4   | 26    | 0.79  | 0.110 |
| L4000N 7412.5E | Soil  | 1.6   | 18.9  | 7.9   | 97    | 0.1   | 12.3  | 6.3   | 688   | 1.60  | 33.1  | 0.5   | 1.4   | 1.8   | 36    | 0.4   | 0.4   | 0.2   | 30    | 0.44  | 0.154 |
| L4000N 7437.5E | Soil  | 1.0   | 41.1  | 207.1 | 175   | 39.8  | 17.9  | 6.3   | 323   | 2.17  | 56.0  | 0.6   | 98.1  | 2.7   | 41    | 0.6   | 4.8   | 0.2   | 36    | 0.48  | 0.162 |
| L4000N 7475E   | Soil  | 0.5   | 40.3  | 17.6  | 151   | 0.3   | 12.5  | 7.9   | 437   | 1.83  | 11.8  | 0.4   | 1.9   | 1.9   | 26    | 0.9   | 0.3   | 0.3   | 45    | 0.33  | 0.147 |
| L4000N 7487.5E | Soil  | 0.8   | 103.2 | 24.0  | 150   | 0.5   | 15.1  | 7.6   | 788   | 1.77  | 11.1  | 0.7   | 2.9   | 2.1   | 23    | 0.7   | 0.2   | 0.3   | 38    | 0.31  | 0.138 |
| L4000N 7512.5E | Soil  | 1.7   | 39.9  | 16.5  | 84    | 0.2   | 65.7  | 8.2   | 624   | 1.65  | 10.0  | 0.8   | 1.3   | 1.9   | 26    | 0.5   | 0.2   | 0.2   | 32    | 0.24  | 0.090 |
| L4000N 7525E   | Soil  | 0.9   | 27.9  | 9.5   | 59    | <0.1  | 33.2  | 6.9   | 381   | 1.45  | 13.1  | 0.5   | 2.5   | 1.6   | 25    | 0.4   | 0.2   | 0.2   | 28    | 0.36  | 0.045 |
| L4000N 7537.5E | Soil  | 0.8   | 35.0  | 11.1  | 71    | 0.1   | 23.1  | 7.8   | 416   | 1.85  | 14.2  | 0.6   | 2.8   | 2.6   | 24    | 0.2   | 0.3   | 0.2   | 40    | 0.24  | 0.072 |
| L4000N 7550E   | Soil  | 0.9   | 30.5  | 10.8  | 129   | <0.1  | 20.4  | 9.6   | 736   | 1.68  | 16.1  | 0.3   | 1.9   | 2.0   | 24    | 0.3   | 0.3   | 0.2   | 29    | 0.28  | 0.174 |
| L4000N 7562.5E | Soil  | 0.8   | 22.7  | 10.0  | 79    | <0.1  | 15.7  | 8.2   | 670   | 1.51  | 14.6  | 0.4   | 2.1   | 2.0   | 22    | 0.3   | 0.2   | 0.2   | 28    | 0.29  | 0.193 |
| L4000N 7575E   | Soil  | 1.1   | 44.6  | 16.4  | 110   | 0.2   | 28.2  | 11.9  | 597   | 2.54  | 69.4  | 0.6   | 3.6   | 3.3   | 26    | 0.5   | 0.6   | 0.3   | 42    | 0.40  | 0.106 |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            | 1DX15 |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|-------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |       |
| L4000N 7162.5E                   | Soil           | 17             | 32              | 0.52           | 164              | 0.120         | 2               | 2.11             | 0.025          | 0.09            | 0.2               | 0.02             | 3.5              | 0.1            | <0.05          | 6                | <0.5  |
| L4000N 7175E                     | Soil           | 5              | 15              | 0.25           | 256              | 0.074         | 1               | 1.30             | 0.018          | 0.08            | 0.1               | 0.02             | 1.7              | <0.1           | <0.05          | 6                | <0.5  |
| L4000N 7187.5E                   | Soil           | 7              | 16              | 0.27           | 100              | 0.045         | 2               | 1.29             | 0.015          | 0.07            | <0.1              | 0.03             | 1.0              | <0.1           | <0.05          | 6                | 0.6   |
| L4000N 7200E                     | Soil           | 10             | 16              | 0.29           | 110              | 0.050         | 3               | 1.61             | 0.015          | 0.08            | 0.1               | 0.02             | 1.3              | <0.1           | <0.05          | 5                | 0.7   |
| L4000N 7212.5E                   | Soil           | 7              | 13              | 0.27           | 100              | 0.045         | 3               | 1.33             | 0.018          | 0.08            | <0.1              | 0.01             | 1.0              | <0.1           | <0.05          | 5                | <0.5  |
| L4000N 7225E                     | Soil           | 10             | 17              | 0.38           | 100              | 0.071         | 3               | 1.96             | 0.022          | 0.09            | 0.1               | 0.02             | 2.5              | 0.1            | <0.05          | 6                | 0.6   |
| L4000N 7237.5E                   | Soil           | 10             | 20              | 0.43           | 126              | 0.092         | 3               | 1.81             | 0.022          | 0.13            | 0.1               | 0.02             | 2.8              | 0.1            | <0.05          | 6                | <0.5  |
| L4000N 7250E                     | Soil           | 10             | 22              | 0.39           | 137              | 0.109         | 2               | 1.98             | 0.023          | 0.10            | 0.2               | 0.03             | 2.7              | 0.2            | <0.05          | 6                | <0.5  |
| L4000N 7262.5E                   | Soil           | 9              | 17              | 0.29           | 132              | 0.063         | 1               | 1.41             | 0.024          | 0.08            | 0.1               | 0.02             | 1.8              | <0.1           | <0.05          | 5                | <0.5  |
| L4000N 7275E                     | Soil           | 11             | 19              | 0.37           | 137              | 0.084         | 2               | 1.69             | 0.022          | 0.10            | 0.1               | 0.02             | 2.7              | 0.1            | <0.05          | 5                | <0.5  |
| L4000N 7287.5E                   | Soil           | 11             | 23              | 0.46           | 284              | 0.108         | 3               | 2.04             | 0.019          | 0.14            | 0.1               | 0.02             | 3.5              | 0.2            | <0.05          | 6                | <0.5  |
| L4000N 7300E                     | Soil           | 9              | 21              | 0.40           | 287              | 0.088         | 3               | 2.09             | 0.023          | 0.14            | 0.1               | 0.01             | 2.9              | 0.1            | <0.05          | 6                | <0.5  |
| L4000N 7312.5E                   | Soil           | 8              | 17              | 0.27           | 186              | 0.097         | 3               | 2.01             | 0.027          | 0.12            | 0.2               | 0.02             | 2.7              | 0.1            | <0.05          | 5                | <0.5  |
| L4000N 7325E                     | Soil           | 7              | 19              | 0.28           | 240              | 0.082         | 3               | 1.77             | 0.024          | 0.11            | 0.1               | 0.02             | 2.3              | 0.1            | <0.05          | 4                | <0.5  |
| L4000N 7337.5E                   | Soil           | 7              | 13              | 0.20           | 215              | 0.067         | 4               | 1.40             | 0.027          | 0.11            | <0.1              | 0.02             | 1.9              | <0.1           | <0.05          | 4                | <0.5  |
| L4000N 7350E                     | Soil           | 14             | 39              | 0.61           | 173              | 0.108         | 2               | 1.67             | 0.034          | 0.17            | 0.2               | 0.01             | 3.7              | 0.2            | <0.05          | 6                | <0.5  |
| L4000N 7362.5E                   | Soil           | 14             | 15              | 0.19           | 86               | 0.078         | 2               | 1.50             | 0.037          | 0.06            | <0.1              | 0.01             | 2.0              | <0.1           | <0.05          | 3                | <0.5  |
| L4000N 7375E                     | Soil           | 14             | 22              | 0.29           | 92               | 0.094         | 5               | 1.92             | 0.034          | 0.08            | 0.1               | 0.02             | 3.3              | 0.1            | <0.05          | 4                | 0.9   |
| L4000N 7387.5E                   | Soil           | 6              | 20              | 0.30           | 124              | 0.082         | 4               | 1.76             | 0.022          | 0.09            | 0.1               | 0.04             | 2.1              | 0.1            | <0.05          | 5                | <0.5  |
| L4000N 7400E                     | Soil           | 4              | 15              | 0.27           | 118              | 0.041         | 3               | 1.24             | 0.056          | 0.06            | 0.1               | 0.03             | 1.8              | <0.1           | <0.05          | 4                | 1.0   |
| L4000N 7412.5E                   | Soil           | 6              | 13              | 0.34           | 146              | 0.085         | 6               | 2.14             | 0.029          | 0.09            | 0.1               | 0.02             | 2.5              | 0.1            | <0.05          | 5                | <0.5  |
| L4000N 7437.5E                   | Soil           | 10             | 19              | 0.51           | 154              | 0.085         | 5               | 2.62             | 0.027          | 0.10            | 0.3               | 0.07             | 3.8              | 0.1            | <0.05          | 6                | 1.0   |
| L4000N 7475E                     | Soil           | 6              | 16              | 0.44           | 122              | 0.079         | 3               | 1.67             | 0.021          | 0.07            | 0.3               | <0.01            | 2.8              | <0.1           | <0.05          | 5                | 0.8   |
| L4000N 7487.5E                   | Soil           | 8              | 18              | 0.32           | 161              | 0.093         | 3               | 2.06             | 0.019          | 0.08            | 0.4               | <0.01            | 3.1              | 0.1            | <0.05          | 6                | <0.5  |
| L4000N 7512.5E                   | Soil           | 7              | 58              | 0.57           | 125              | 0.092         | 3               | 2.29             | 0.021          | 0.06            | 0.2               | 0.02             | 2.1              | 0.1            | <0.05          | 6                | <0.5  |
| L4000N 7525E                     | Soil           | 5              | 37              | 0.42           | 88               | 0.086         | 1               | 1.75             | 0.023          | 0.06            | 0.2               | 0.01             | 1.6              | <0.1           | <0.05          | 5                | <0.5  |
| L4000N 7537.5E                   | Soil           | 12             | 32              | 0.39           | 144              | 0.089         | 2               | 1.73             | 0.020          | 0.11            | 0.3               | 0.02             | 2.3              | <0.1           | <0.05          | 5                | <0.5  |
| L4000N 7550E                     | Soil           | 6              | 23              | 0.33           | 190              | 0.080         | 2               | 1.69             | 0.018          | 0.09            | 0.2               | <0.01            | 2.4              | 0.1            | <0.05          | 5                | 0.6   |
| L4000N 7562.5E                   | Soil           | 7              | 17              | 0.27           | 151              | 0.074         | 2               | 1.60             | 0.023          | 0.08            | 0.2               | 0.02             | 2.3              | 0.1            | <0.05          | 5                | <0.5  |
| L4000N 7575E                     | Soil           | 15             | 32              | 0.55           | 197              | 0.086         | 5               | 2.24             | 0.027          | 0.12            | 0.4               | 0.01             | 3.7              | 0.9            | <0.05          | 6                | <0.5  |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |  |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |       |  |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |       |  |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |       |  |
| L4000N 7600E   | Soil  | 0.6   | 22.3  | 10.4  | 98    | 0.2   | 23.2  | 8.1   | 548   | 1.94  | 45.7  | 0.4   | 1.6   | 2.2   | 20    | 0.3   | 0.3   | 0.3   | 39    | 0.25  | 0.081 |       |  |
| L4000N 7612.5E | Soil  | 0.7   | 40.9  | 12.9  | 113   | 0.2   | 32.7  | 12.7  | 614   | 2.65  | 27.3  | 0.5   | 3.3   | 3.2   | 35    | 0.4   | 0.3   | 0.3   | 53    | 0.46  | 0.106 |       |  |
| L4000N 7625E   | Soil  | 0.5   | 30.8  | 11.6  | 94    | 0.1   | 30.0  | 11.8  | 634   | 2.62  | 16.8  | 0.5   | 2.0   | 3.1   | 35    | 0.3   | 0.2   | 0.3   | 51    | 0.38  | 0.091 |       |  |
| L4000N 7637.5E | Soil  | 0.6   | 26.0  | 10.7  | 81    | 0.1   | 25.3  | 10.0  | 700   | 2.11  | 14.2  | 0.6   | 2.1   | 3.1   | 41    | 0.3   | 0.2   | 0.3   | 44    | 0.48  | 0.131 |       |  |
| L4000N 7650E   | Soil  | 0.5   | 29.5  | 11.4  | 82    | <0.1  | 27.3  | 11.1  | 553   | 2.47  | 15.7  | 0.8   | 4.2   | 3.6   | 35    | 0.3   | 0.2   | 0.3   | 52    | 0.37  | 0.118 |       |  |
| L3950N 7150E   | Soil  | 0.9   | 30.0  | 11.4  | 65    | <0.1  | 22.5  | 10.5  | 405   | 2.42  | 15.4  | 0.8   | 3.3   | 3.3   | 22    | 0.3   | 0.4   | 0.2   | 57    | 0.33  | 0.127 |       |  |
| L3950N 7162.5E | Soil  | 0.6   | 22.7  | 24.9  | 73    | <0.1  | 13.4  | 6.1   | 1069  | 1.50  | 12.1  | 0.4   | 3.1   | 0.6   | 29    | 0.7   | 0.6   | 0.3   | 33    | 0.36  | 0.087 |       |  |
| L3950N 7175E   | Soil  | 1.1   | 24.5  | 16.6  | 67    | 0.1   | 18.5  | 7.7   | 676   | 1.93  | 14.1  | 0.5   | 3.9   | 0.9   | 20    | 0.3   | 0.5   | 0.2   | 46    | 0.23  | 0.072 |       |  |
| L3950N 7187.5E | Soil  | 1.0   | 28.0  | 14.3  | 58    | 0.2   | 17.6  | 7.6   | 695   | 1.96  | 12.5  | 0.7   | 2.9   | 0.4   | 20    | 0.3   | 0.4   | 0.2   | 48    | 0.21  | 0.102 |       |  |
| L3950N 7200E   | Soil  | 1.0   | 26.5  | 14.8  | 57    | 0.2   | 12.7  | 7.1   | 1194  | 1.80  | 10.6  | 0.6   | 2.9   | 0.2   | 34    | 0.6   | 0.4   | 0.2   | 39    | 0.27  | 0.085 |       |  |
| L3950N 7212.5E | Soil  | 0.9   | 27.5  | 15.4  | 66    | 0.1   | 17.9  | 8.2   | 1215  | 2.01  | 13.2  | 0.8   | 7.2   | 1.0   | 37    | 0.4   | 0.4   | 0.2   | 45    | 0.38  | 0.086 |       |  |
| L3950N 7225E   | Soil  | 0.7   | 28.2  | 11.1  | 66    | <0.1  | 16.4  | 8.3   | 1083  | 1.98  | 10.9  | 0.7   | 3.0   | 1.9   | 34    | 0.4   | 0.4   | 0.2   | 45    | 0.34  | 0.101 |       |  |
| L3950N 7237.5E | Soil  | 0.7   | 24.5  | 10.9  | 75    | 0.1   | 16.8  | 7.9   | 1276  | 2.04  | 12.0  | 0.6   | 3.0   | 2.4   | 44    | 0.4   | 0.3   | 0.2   | 46    | 0.39  | 0.113 |       |  |
| L3950N 7250E   | Soil  | 0.7   | 22.9  | 10.9  | 65    | <0.1  | 17.8  | 8.2   | 532   | 1.93  | 8.2   | 0.5   | 1.4   | 2.5   | 32    | 0.2   | 0.2   | 0.2   | 46    | 0.31  | 0.073 |       |  |
| L3950N 7262.5E | Soil  | 0.7   | 31.8  | 12.7  | 73    | 0.2   | 15.4  | 7.7   | 1075  | 1.75  | 11.2  | 0.8   | 3.8   | 0.6   | 44    | 0.8   | 0.2   | 0.2   | 42    | 0.54  | 0.066 |       |  |
| L3950N 7275E   | Soil  | 0.7   | 31.0  | 12.1  | 86    | 0.1   | 17.8  | 11.2  | 1209  | 2.28  | 16.9  | 0.6   | 1.9   | 2.1   | 31    | 0.6   | 0.4   | 0.2   | 51    | 0.32  | 0.106 |       |  |
| L3950N 7287.5E | Soil  | 0.5   | 26.5  | 12.8  | 85    | <0.1  | 23.2  | 10.1  | 830   | 2.38  | 11.8  | 0.5   | 0.5   | 2.7   | 30    | 0.4   | 0.3   | 0.2   | 52    | 0.27  | 0.115 |       |  |
| L3950N 7300E   | Soil  | 0.6   | 79.6  | 11.9  | 87    | <0.1  | 47.4  | 15.2  | 477   | 2.97  | 26.2  | 0.7   | 1.6   | 4.1   | 30    | 0.2   | 0.3   | 0.2   | 72    | 0.37  | 0.108 |       |  |
| L3950N 7312.5E | Soil  | 0.5   | 17.6  | 8.5   | 112   | <0.1  | 14.7  | 5.3   | 718   | 1.36  | 12.2  | 0.4   | 5.8   | 1.6   | 27    | 0.3   | 0.1   | 0.2   | 27    | 0.29  | 0.217 |       |  |
| L3950N 7325E   | Soil  | 0.4   | 28.1  | 7.9   | 91    | 0.2   | 19.1  | 7.1   | 423   | 1.65  | 15.3  | 1.0   | 0.9   | 1.6   | 28    | 0.3   | 0.2   | 0.1   | 32    | 0.27  | 0.128 |       |  |
| L3950N 7337.5E | Soil  | 0.7   | 20.3  | 9.5   | 78    | 0.2   | 16.6  | 5.6   | 334   | 1.38  | 25.4  | 0.4   | 1.4   | 1.8   | 27    | 0.2   | 0.2   | 0.2   | 30    | 0.38  | 0.084 |       |  |
| L3950N 7350E   | Soil  | 0.9   | 24.6  | 7.9   | 79    | 0.1   | 20.4  | 6.0   | 544   | 1.41  | 18.9  | 0.3   | 1.1   | 1.8   | 31    | 0.5   | 0.4   | 0.2   | 32    | 0.53  | 0.025 |       |  |
| L3950N 7362.5E | Soil  | 1.1   | 31.0  | 10.4  | 94    | <0.1  | 26.7  | 10.0  | 355   | 2.10  | 21.6  | 0.5   | 3.5   | 2.8   | 26    | 0.2   | 0.3   | 0.2   | 49    | 0.40  | 0.038 |       |  |
| L3950N 7375E   | Soil  | 1.5   | 48.1  | 8.6   | 91    | 0.2   | 24.6  | 9.0   | 264   | 2.12  | 16.3  | 0.6   | 2.0   | 3.8   | 34    | 0.3   | 0.2   | 0.1   | 47    | 0.48  | 0.035 |       |  |
| L3950N 7387.5E | Soil  | 1.8   | 27.9  | 9.1   | 72    | <0.1  | 19.8  | 8.2   | 243   | 1.82  | 12.4  | 0.4   | 1.4   | 1.9   | 26    | 0.2   | 0.2   | 0.2   | 47    | 0.38  | 0.032 |       |  |
| L3950N 7400E   | Soil  | 0.8   | 43.5  | 11.7  | 148   | 0.1   | 25.4  | 9.8   | 789   | 2.24  | 15.6  | 0.7   | 1.5   | 3.0   | 30    | 0.7   | 0.2   | 0.2   | 53    | 0.38  | 0.131 |       |  |
| L3950N 7412.5E | Soil  | 0.6   | 30.2  | 9.7   | 105   | 0.1   | 22.4  | 8.0   | 654   | 1.91  | 14.7  | 0.6   | 0.8   | 2.4   | 22    | 0.3   | 0.2   | 0.2   | 44    | 0.27  | 0.118 |       |  |
| L3950N 7425E   | Soil  | 0.7   | 23.1  | 10.4  | 92    | 0.1   | 22.0  | 7.9   | 673   | 1.76  | 15.0  | 0.3   | <0.5  | 2.1   | 29    | 0.5   | 0.2   | 0.2   | 45    | 0.42  | 0.083 |       |  |
| L3950N 7437.5E | Soil  | 0.6   | 19.1  | 7.9   | 61    | <0.1  | 16.2  | 6.4   | 323   | 1.48  | 16.0  | 0.3   | 1.9   | 1.6   | 19    | 0.2   | 0.2   | 0.2   | 30    | 0.28  | 0.064 |       |  |
| L3950N 7450E   | Soil  | 0.7   | 24.3  | 8.1   | 109   | 0.1   | 19.5  | 7.4   | 569   | 1.59  | 17.2  | 0.3   | 2.7   | 1.8   | 22    | 0.3   | 0.2   | 0.2   | 31    | 0.28  | 0.117 |       |  |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L4000N 7600E   | Soil  | 8     | 28    | 0.44  | 150   | 0.089 | 1     | 1.68  | 0.023 | 0.12  | 0.2   | 0.01  | 2.3   | 1.0   | <0.05 | 5     | 0.5  |
| L4000N 7612.5E | Soil  | 15    | 45    | 0.64  | 166   | 0.122 | 1     | 1.76  | 0.026 | 0.19  | 0.3   | 0.02  | 3.7   | 0.4   | <0.05 | 6     | 0.9  |
| L4000N 7625E   | Soil  | 13    | 41    | 0.65  | 155   | 0.116 | 4     | 1.85  | 0.026 | 0.18  | 0.2   | <0.01 | 3.5   | 0.3   | <0.05 | 6     | <0.5 |
| L4000N 7637.5E | Soil  | 15    | 36    | 0.55  | 149   | 0.111 | 3     | 1.84  | 0.025 | 0.15  | 0.2   | 0.02  | 3.5   | 0.2   | <0.05 | 6     | 0.6  |
| L4000N 7650E   | Soil  | 16    | 39    | 0.60  | 135   | 0.123 | 2     | 2.06  | 0.026 | 0.14  | 0.1   | 0.02  | 3.8   | 0.2   | <0.05 | 6     | <0.5 |
| L3950N 7150E   | Soil  | 13    | 32    | 0.47  | 83    | 0.113 | 3     | 2.73  | 0.012 | 0.09  | 0.2   | 0.02  | 3.4   | 0.1   | <0.05 | 7     | 0.5  |
| L3950N 7162.5E | Soil  | 7     | 18    | 0.28  | 159   | 0.067 | 2     | 1.20  | 0.016 | 0.08  | 0.2   | 0.03  | 1.4   | 0.1   | <0.05 | 5     | 0.8  |
| L3950N 7175E   | Soil  | 9     | 25    | 0.40  | 90    | 0.088 | 2     | 1.70  | 0.014 | 0.08  | 0.2   | 0.03  | 1.9   | <0.1  | <0.05 | 7     | 0.7  |
| L3950N 7187.5E | Soil  | 13    | 26    | 0.40  | 98    | 0.065 | 2     | 2.13  | 0.013 | 0.09  | 0.1   | 0.04  | 1.8   | <0.1  | <0.05 | 7     | 0.6  |
| L3950N 7200E   | Soil  | 13    | 19    | 0.33  | 101   | 0.054 | <1    | 1.83  | 0.012 | 0.09  | 0.1   | 0.02  | 1.6   | <0.1  | <0.05 | 7     | 1.0  |
| L3950N 7212.5E | Soil  | 14    | 25    | 0.42  | 119   | 0.088 | <1    | 2.02  | 0.014 | 0.09  | 0.2   | 0.02  | 2.5   | <0.1  | <0.05 | 8     | <0.5 |
| L3950N 7225E   | Soil  | 13    | 23    | 0.40  | 124   | 0.098 | <1    | 1.86  | 0.018 | 0.09  | 0.2   | 0.02  | 3.1   | <0.1  | <0.05 | 7     | 0.6  |
| L3950N 7237.5E | Soil  | 10    | 24    | 0.43  | 198   | 0.111 | <1    | 2.10  | 0.017 | 0.11  | 0.2   | 0.01  | 3.1   | 0.1   | <0.05 | 7     | <0.5 |
| L3950N 7250E   | Soil  | 9     | 25    | 0.43  | 104   | 0.105 | <1    | 1.75  | 0.017 | 0.09  | 0.2   | <0.01 | 2.8   | <0.1  | <0.05 | 6     | <0.5 |
| L3950N 7262.5E | Soil  | 13    | 23    | 0.38  | 116   | 0.063 | <1    | 1.43  | 0.019 | 0.10  | <0.1  | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L3950N 7275E   | Soil  | 10    | 25    | 0.48  | 134   | 0.107 | <1    | 1.76  | 0.017 | 0.12  | 0.2   | 0.02  | 3.5   | 0.1   | <0.05 | 6     | 0.9  |
| L3950N 7287.5E | Soil  | 9     | 29    | 0.58  | 192   | 0.121 | <1    | 2.08  | 0.020 | 0.13  | 0.2   | <0.01 | 3.8   | 0.1   | <0.05 | 7     | <0.5 |
| L3950N 7300E   | Soil  | 11    | 59    | 0.81  | 168   | 0.127 | <1    | 1.63  | 0.020 | 0.21  | 0.2   | <0.01 | 4.0   | 0.2   | <0.05 | 5     | <0.5 |
| L3950N 7312.5E | Soil  | 6     | 14    | 0.21  | 236   | 0.090 | <1    | 1.65  | 0.022 | 0.10  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L3950N 7325E   | Soil  | 13    | 19    | 0.29  | 153   | 0.100 | <1    | 2.41  | 0.029 | 0.09  | <0.1  | 0.02  | 2.9   | 0.1   | <0.05 | 6     | <0.5 |
| L3950N 7337.5E | Soil  | 10    | 15    | 0.20  | 80    | 0.099 | <1    | 1.98  | 0.029 | 0.06  | <0.1  | 0.03  | 2.1   | 0.1   | <0.05 | 5     | 0.6  |
| L3950N 7350E   | Soil  | 10    | 20    | 0.25  | 62    | 0.087 | <1    | 1.49  | 0.032 | 0.06  | <0.1  | 0.02  | 2.3   | 0.1   | <0.05 | 3     | <0.5 |
| L3950N 7362.5E | Soil  | 9     | 34    | 0.47  | 91    | 0.116 | <1    | 1.77  | 0.022 | 0.10  | 0.1   | <0.01 | 2.8   | 0.1   | <0.05 | 5     | <0.5 |
| L3950N 7375E   | Soil  | 16    | 32    | 0.43  | 132   | 0.120 | <1    | 2.35  | 0.026 | 0.10  | 0.2   | 0.03  | 3.5   | 0.1   | <0.05 | 6     | <0.5 |
| L3950N 7387.5E | Soil  | 6     | 27    | 0.41  | 90    | 0.106 | <1    | 1.67  | 0.024 | 0.06  | 0.1   | 0.02  | 2.4   | <0.1  | <0.05 | 5     | 0.6  |
| L3950N 7400E   | Soil  | 13    | 32    | 0.54  | 172   | 0.118 | <1    | 2.28  | 0.019 | 0.10  | 0.2   | 0.03  | 4.1   | 0.2   | <0.05 | 7     | <0.5 |
| L3950N 7412.5E | Soil  | 9     | 25    | 0.38  | 177   | 0.108 | <1    | 2.05  | 0.016 | 0.09  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 6     | <0.5 |
| L3950N 7425E   | Soil  | 7     | 23    | 0.33  | 208   | 0.097 | <1    | 1.64  | 0.015 | 0.10  | <0.1  | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L3950N 7437.5E | Soil  | 4     | 18    | 0.26  | 134   | 0.082 | 2     | 1.45  | 0.021 | 0.09  | 0.2   | 0.02  | 1.5   | <0.1  | <0.05 | 5     | <0.5 |
| L3950N 7450E   | Soil  | 5     | 19    | 0.26  | 188   | 0.081 | 3     | 1.54  | 0.020 | 0.09  | 0.2   | 0.02  | 1.6   | <0.1  | <0.05 | 5     | <0.5 |



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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method<br>Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |  |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                   |      | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |  |
| MDL               |      | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |       |  |
|                   |      | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |  |
| L3950N 7462.5E    | Soil | 1.5   | 18.6  | 9.8   | 92    | 0.1   | 10.8  | 4.6   | 863   | 1.29  | 8.2   | 0.7   | 3.4   | 1.7   | 43    | 0.4   | 0.2   | 0.6   | 27    | 0.72  | 0.060 |       |  |
| L3950N 7475E      | Soil | 1.9   | 20.6  | 9.9   | 56    | 0.1   | 13.9  | 6.1   | 474   | 1.76  | 10.9  | 0.7   | 2.0   | 2.7   | 26    | 0.1   | 0.3   | 0.8   | 36    | 0.31  | 0.061 |       |  |
| L3950N 7487.5E    | Soil | 1.3   | 18.0  | 13.9  | 68    | 0.2   | 12.5  | 4.5   | 513   | 1.52  | 17.6  | 0.5   | 3.1   | 2.3   | 37    | 0.3   | 0.2   | 0.7   | 33    | 0.45  | 0.074 |       |  |
| L3950N 7500E      | Soil | 1.2   | 21.3  | 11.2  | 78    | <0.1  | 26.4  | 7.0   | 458   | 1.77  | 11.3  | 0.7   | 1.8   | 2.3   | 17    | 0.3   | 0.2   | 0.3   | 36    | 0.16  | 0.070 |       |  |
| L3950N 7512.5E    | Soil | 0.7   | 13.7  | 5.9   | 60    | <0.1  | 33.6  | 4.4   | 340   | 0.89  | 5.7   | 0.2   | 2.7   | 0.5   | 22    | 0.1   | 0.1   | 0.2   | 22    | 0.24  | 0.054 |       |  |
| L3950N 7537.5E    | Soil | 1.1   | 20.5  | 12.5  | 103   | <0.1  | 15.9  | 5.6   | 450   | 1.69  | 31.0  | 0.8   | 2.6   | 3.1   | 23    | 0.4   | 0.3   | 0.2   | 28    | 0.26  | 0.236 |       |  |
| L3950N 7550E      | Soil | 0.5   | 11.8  | 13.2  | 70    | <0.1  | 7.2   | 3.3   | 536   | 0.82  | 13.9  | 0.2   | 1.8   | 0.6   | 19    | 0.3   | 0.2   | 0.2   | 20    | 0.36  | 0.069 |       |  |
| L3950N 7562.5E    | Soil | 1.1   | 22.4  | 47.4  | 165   | 0.2   | 19.6  | 7.2   | 546   | 2.06  | 49.6  | 0.5   | 2.9   | 3.3   | 30    | 0.8   | 0.5   | 0.3   | 37    | 0.66  | 0.138 |       |  |
| L3950N 7575E      | Soil | 0.4   | 10.1  | 11.9  | 137   | <0.1  | 10.3  | 3.5   | 529   | 0.98  | 20.1  | 0.2   | 1.2   | 1.2   | 20    | 0.6   | 0.2   | 0.2   | 20    | 0.32  | 0.109 |       |  |
| L3950N 7587.5E    | Soil | 0.7   | 39.7  | 18.6  | 143   | 0.3   | 23.6  | 7.3   | 414   | 1.91  | 43.8  | 0.5   | 6.9   | 3.3   | 28    | 0.8   | 0.3   | 1.3   | 37    | 0.53  | 0.108 |       |  |
| L3950N 7600E      | Soil | 0.6   | 30.8  | 9.9   | 104   | 0.2   | 18.6  | 6.4   | 366   | 1.57  | 19.0  | 0.6   | 2.7   | 2.9   | 25    | 0.5   | 0.2   | 0.2   | 29    | 0.45  | 0.162 |       |  |
| L3950N 7612.5E    | Soil | 0.7   | 22.9  | 10.2  | 112   | 0.1   | 23.5  | 7.5   | 429   | 1.75  | 17.2  | 0.4   | 3.2   | 2.7   | 19    | 0.4   | 0.3   | 0.3   | 36    | 0.22  | 0.111 |       |  |
| L3950N 7625E      | Soil | 0.5   | 32.7  | 11.3  | 123   | <0.1  | 25.3  | 9.0   | 636   | 2.04  | 20.2  | 0.4   | 2.0   | 3.1   | 29    | 0.6   | 0.3   | 0.3   | 41    | 0.40  | 0.166 |       |  |
| L3950N 7637.5E    | Soil | 0.5   | 55.6  | 11.9  | 115   | 0.3   | 22.9  | 8.8   | 523   | 1.98  | 17.5  | 0.6   | 4.8   | 2.8   | 27    | 0.7   | 0.3   | 0.3   | 43    | 0.43  | 0.078 |       |  |
| L3950N 7650E      | Soil | 0.6   | 81.3  | 15.1  | 175   | 0.5   | 23.3  | 9.4   | 466   | 2.05  | 18.5  | 0.5   | 4.6   | 3.3   | 26    | 1.1   | 0.4   | 0.3   | 45    | 0.51  | 0.061 |       |  |
| L3900N 7150E      | Soil | 0.8   | 21.8  | 12.7  | 70    | <0.1  | 14.4  | 7.5   | 754   | 1.74  | 9.0   | 0.6   | 1.7   | 0.8   | 12    | 0.4   | 0.4   | 0.2   | 41    | 0.12  | 0.085 |       |  |
| L3900N 7162.5E    | Soil | 0.8   | 17.8  | 10.7  | 52    | <0.1  | 9.9   | 6.8   | 1133  | 1.60  | 11.4  | 0.5   | 2.0   | 0.5   | 17    | 0.3   | 0.4   | 0.2   | 36    | 0.15  | 0.073 |       |  |
| L3900N 7175E      | Soil | 0.8   | 24.3  | 13.3  | 59    | 0.1   | 11.2  | 7.1   | 923   | 1.70  | 16.0  | 0.7   | 1.9   | 0.6   | 22    | 0.5   | 0.6   | 0.2   | 39    | 0.25  | 0.100 |       |  |
| L3900N 7187.5E    | Soil | 0.7   | 24.6  | 19.2  | 68    | 0.1   | 10.5  | 6.9   | 997   | 1.57  | 19.4  | 0.4   | 1.8   | 0.2   | 25    | 0.5   | 0.6   | 0.2   | 35    | 0.31  | 0.098 |       |  |
| L3900N 7200E      | Soil | 0.5   | 21.8  | 12.6  | 56    | 0.1   | 10.2  | 6.7   | 917   | 1.50  | 14.0  | 0.7   | 4.1   | 0.2   | 31    | 0.5   | 0.4   | 0.2   | 37    | 0.37  | 0.112 |       |  |
| L3900N 7225E      | Soil | 0.7   | 26.9  | 24.4  | 199   | 0.2   | 29.3  | 13.0  | 1766  | 1.91  | 16.3  | 0.5   | 2.8   | 1.6   | 21    | 1.8   | 0.5   | 0.2   | 42    | 0.39  | 0.052 |       |  |
| L3900N 7237.5E    | Soil | 0.6   | 33.1  | 37.6  | 377   | 0.2   | 28.1  | 10.6  | 1339  | 1.74  | 16.9  | 0.4   | 3.3   | 1.8   | 49    | 2.8   | 0.4   | 0.3   | 34    | 0.54  | 0.154 |       |  |
| L3900N 7250E      | Soil | 0.8   | 26.7  | 30.2  | 333   | <0.1  | 26.4  | 11.2  | 867   | 2.28  | 18.5  | 0.5   | 1.7   | 2.6   | 35    | 1.0   | 0.4   | 0.3   | 41    | 0.36  | 0.223 |       |  |
| L3900N 7262.5E    | Soil | 0.7   | 37.6  | 20.2  | 191   | 0.2   | 37.9  | 11.7  | 489   | 2.61  | 29.4  | 0.7   | 2.5   | 3.6   | 23    | 0.5   | 0.4   | 0.2   | 56    | 0.26  | 0.194 |       |  |
| L3900N 7275E      | Soil | 0.6   | 26.1  | 14.1  | 153   | <0.1  | 36.0  | 9.0   | 332   | 2.28  | 17.4  | 0.6   | 3.3   | 3.6   | 30    | 0.2   | 0.3   | 0.2   | 46    | 0.30  | 0.067 |       |  |
| L3900N 7287.5E    | Soil | 0.5   | 23.5  | 10.2  | 136   | <0.1  | 28.9  | 7.6   | 412   | 1.85  | 17.1  | 0.5   | 2.6   | 3.1   | 27    | 0.4   | 0.2   | 0.2   | 33    | 0.22  | 0.322 |       |  |
| L3900N 7300E      | Soil | 0.4   | 25.8  | 8.6   | 99    | <0.1  | 21.6  | 7.0   | 334   | 1.58  | 18.9  | 0.6   | 2.9   | 2.8   | 24    | 0.4   | 0.1   | 0.1   | 28    | 0.23  | 0.218 |       |  |
| L3900N 7312.5E    | Soil | 0.4   | 20.0  | 9.2   | 81    | 0.1   | 18.0  | 6.0   | 324   | 1.39  | 17.7  | 0.5   | 1.5   | 2.2   | 23    | 0.4   | 0.1   | 0.1   | 25    | 0.17  | 0.192 |       |  |
| L3900N 7325E      | Soil | 0.5   | 17.6  | 8.3   | 125   | 0.1   | 19.7  | 7.1   | 470   | 1.58  | 16.6  | 0.4   | 3.2   | 2.3   | 27    | 0.2   | 0.2   | 0.1   | 29    | 0.28  | 0.262 |       |  |
| L3900N 7337.5E    | Soil | 0.6   | 28.5  | 10.0  | 96    | 0.2   | 22.8  | 8.8   | 317   | 1.84  | 14.5  | 0.6   | 5.7   | 2.9   | 18    | 0.2   | 0.2   | 0.2   | 42    | 0.16  | 0.111 |       |  |



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Project: 41

Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3950N 7462.5E | Soil  | 14    | 14    | 0.21  | 104   | 0.075 | 3     | 1.72  | 0.028 | 0.06  | 0.4   | 0.05  | 2.0   | 0.1   | <0.05 | 4     | 0.9   |
| L3950N 7475E   | Soil  | 12    | 18    | 0.29  | 93    | 0.113 | 3     | 2.41  | 0.023 | 0.07  | 0.3   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | 0.5   |
| L3950N 7487.5E | Soil  | 19    | 13    | 0.25  | 120   | 0.080 | 6     | 1.66  | 0.023 | 0.12  | 0.5   | 0.04  | 1.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3950N 7500E   | Soil  | 7     | 28    | 0.33  | 128   | 0.106 | 2     | 2.23  | 0.024 | 0.08  | 0.3   | 0.02  | 1.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3950N 7512.5E | Soil  | 3     | 32    | 0.33  | 86    | 0.053 | 2     | 0.97  | 0.024 | 0.06  | 0.1   | 0.01  | 0.8   | <0.1  | <0.05 | 4     | <0.5  |
| L3950N 7537.5E | Soil  | 12    | 16    | 0.25  | 156   | 0.084 | 2     | 2.19  | 0.024 | 0.09  | 0.3   | 0.02  | 2.4   | 0.2   | <0.05 | 5     | <0.5  |
| L3950N 7550E   | Soil  | 3     | 10    | 0.13  | 97    | 0.044 | 2     | 0.66  | 0.024 | 0.06  | 0.2   | 0.02  | 0.7   | <0.1  | <0.05 | 2     | <0.5  |
| L3950N 7562.5E | Soil  | 15    | 23    | 0.40  | 166   | 0.083 | 3     | 2.12  | 0.024 | 0.11  | 0.3   | 0.03  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| L3950N 7575E   | Soil  | 5     | 12    | 0.24  | 137   | 0.054 | 3     | 1.05  | 0.025 | 0.06  | 0.1   | 0.02  | 1.3   | 0.1   | <0.05 | 3     | <0.5  |
| L3950N 7587.5E | Soil  | 15    | 29    | 0.51  | 129   | 0.088 | 4     | 1.95  | 0.030 | 0.12  | 0.6   | 0.04  | 3.1   | 0.2   | <0.05 | 5     | <0.5  |
| L3950N 7600E   | Soil  | 13    | 20    | 0.32  | 95    | 0.093 | 2     | 2.10  | 0.029 | 0.09  | 0.3   | 0.03  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3950N 7612.5E | Soil  | 8     | 25    | 0.38  | 133   | 0.086 | 2     | 1.67  | 0.024 | 0.12  | 0.3   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3950N 7625E   | Soil  | 13    | 32    | 0.46  | 181   | 0.093 | 3     | 1.78  | 0.024 | 0.13  | 0.3   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5  |
| L3950N 7637.5E | Soil  | 14    | 31    | 0.42  | 118   | 0.091 | 3     | 1.66  | 0.025 | 0.13  | 0.3   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3950N 7650E   | Soil  | 15    | 31    | 0.44  | 108   | 0.096 | 3     | 1.72  | 0.025 | 0.13  | 0.4   | 0.03  | 3.0   | 0.1   | <0.05 | 5     | <0.5  |
| L3900N 7150E   | Soil  | 9     | 20    | 0.30  | 85    | 0.073 | <1    | 1.70  | 0.013 | 0.08  | 0.1   | 0.02  | 1.7   | 0.1   | <0.05 | 6     | <0.5  |
| L3900N 7162.5E | Soil  | 8     | 13    | 0.26  | 88    | 0.064 | 1     | 1.83  | 0.014 | 0.07  | 0.2   | 0.03  | 1.7   | <0.1  | <0.05 | 6     | <0.5  |
| L3900N 7175E   | Soil  | 10    | 16    | 0.29  | 77    | 0.064 | 1     | 1.88  | 0.019 | 0.08  | 0.2   | 0.03  | 1.8   | <0.1  | <0.05 | 6     | <0.5  |
| L3900N 7187.5E | Soil  | 7     | 15    | 0.27  | 94    | 0.037 | 2     | 1.17  | 0.011 | 0.09  | 0.2   | 0.06  | 1.0   | <0.1  | <0.05 | 5     | <0.5  |
| L3900N 7200E   | Soil  | 12    | 15    | 0.25  | 67    | 0.035 | 2     | 1.95  | 0.013 | 0.07  | 0.2   | 0.02  | 1.1   | <0.1  | 0.05  | 5     | 0.5   |
| L3900N 7225E   | Soil  | 9     | 26    | 0.52  | 62    | 0.086 | 2     | 1.54  | 0.023 | 0.07  | 0.1   | 0.04  | 3.3   | <0.1  | <0.05 | 5     | <0.5  |
| L3900N 7237.5E | Soil  | 8     | 21    | 0.41  | 118   | 0.072 | 3     | 1.49  | 0.023 | 0.11  | 0.2   | 0.04  | 3.6   | 0.2   | <0.05 | 5     | <0.5  |
| L3900N 7250E   | Soil  | 9     | 31    | 0.48  | 234   | 0.098 | 2     | 1.90  | 0.015 | 0.16  | 0.2   | 0.03  | 2.9   | 0.1   | <0.05 | 7     | <0.5  |
| L3900N 7262.5E | Soil  | 11    | 41    | 0.62  | 162   | 0.121 | 1     | 2.43  | 0.021 | 0.18  | 0.2   | 0.03  | 3.4   | 0.1   | <0.05 | 7     | <0.5  |
| L3900N 7275E   | Soil  | 9     | 36    | 0.53  | 184   | 0.112 | 3     | 2.30  | 0.021 | 0.21  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 7     | <0.5  |
| L3900N 7287.5E | Soil  | 8     | 25    | 0.36  | 249   | 0.097 | 3     | 2.05  | 0.021 | 0.14  | 0.2   | 0.01  | 2.7   | 0.1   | <0.05 | 6     | <0.5  |
| L3900N 7300E   | Soil  | 9     | 19    | 0.25  | 194   | 0.096 | 2     | 2.12  | 0.027 | 0.09  | 0.2   | 0.03  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3900N 7312.5E | Soil  | 6     | 16    | 0.22  | 149   | 0.088 | 2     | 2.06  | 0.023 | 0.07  | 0.2   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5  |
| L3900N 7325E   | Soil  | 5     | 19    | 0.24  | 242   | 0.092 | 2     | 2.02  | 0.021 | 0.09  | 0.1   | 0.02  | 1.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3900N 7337.5E | Soil  | 9     | 26    | 0.32  | 219   | 0.096 | 1     | 1.79  | 0.020 | 0.09  | 0.1   | 0.03  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |



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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L3900N 7350E            | Soil             | 0.4              | 18.1             | 7.4            | 117              | 0.2              | 20.6             | 6.6            | 396             | 1.41             | 13.1            | 0.4              | 2.6              | 2.1            | 23               | 0.3              | 0.1              | 0.1           | 28              | 0.15            | 0.284 |
| L3900N 7362.5E          | Soil             | 0.5              | 29.7             | 6.7            | 60               | 0.1              | 22.0             | 6.9            | 205             | 1.59             | 14.1            | 0.4              | 2.5              | 2.5            | 14               | 0.2              | 0.1              | <0.1          | 38              | 0.15            | 0.079 |
| L3900N 7375             | Soil             | 1.5              | 40.3             | 7.5            | 132              | <0.1             | 19.1             | 7.3            | 230             | 1.65             | 13.8            | 0.3              | 4.7              | 2.8            | 17               | 0.4              | 0.1              | 0.3           | 37              | 0.19            | 0.040 |
| L3900N 7387.5E          | Soil             | 2.2              | 30.2             | 23.1           | 102              | 0.1              | 21.7             | 7.2            | 226             | 1.71             | 19.6            | 0.5              | 1.7              | 2.6            | 24               | 0.3              | 0.3              | 0.1           | 37              | 0.26            | 0.160 |
| L3900N 7400E            | Soil             | 0.5              | 18.9             | 9.7            | 112              | 0.2              | 21.6             | 7.4            | 498             | 1.59             | 19.4            | 0.4              | 0.6              | 2.4            | 22               | 0.4              | 0.2              | 0.2           | 30              | 0.23            | 0.325 |
| L3900N 7412.5E          | Soil             | 0.8              | 32.2             | 11.1           | 110              | 0.3              | 28.4             | 9.8            | 331             | 2.45             | 29.4            | 0.8              | 7.5              | 3.6            | 27               | 0.4              | 0.2              | 0.2           | 48              | 0.23            | 0.125 |
| L3900N 7425E            | Soil             | 0.8              | 29.8             | 11.8           | 111              | 0.1              | 26.5             | 9.7            | 474             | 2.38             | 24.8            | 0.7              | 1.2              | 2.9            | 18               | 0.4              | 0.3              | 0.2           | 49              | 0.23            | 0.120 |
| L3900N 7437.5E          | Soil             | 0.7              | 24.8             | 11.5           | 169              | 0.2              | 30.5             | 9.1            | 561             | 2.30             | 10.3            | 0.9              | 2.2              | 3.1            | 26               | 1.6              | 0.2              | 0.2           | 83              | 0.40            | 0.124 |
| L3900N 7450E            | Soil             | 1.0              | 33.2             | 11.8           | 189              | 0.3              | 29.4             | 12.4           | 453             | 2.94             | 5.8             | 0.8              | 1.2              | 1.8            | 31               | 1.3              | 0.4              | 0.3           | 135             | 0.63            | 0.060 |
| L3900N 7462.5E          | Soil             | 1.3              | 25.7             | 10.6           | 169              | 0.1              | 23.3             | 8.1            | 1302            | 2.24             | 24.2            | 0.7              | 2.1              | 2.2            | 25               | 0.7              | 0.3              | 3.6           | 54              | 0.32            | 0.238 |
| L3900N 7475E            | Soil             | 1.7              | 54.8             | 13.4           | 88               | 0.5              | 33.3             | 8.6            | 871             | 2.51             | 47.7            | 0.7              | 4.5              | 2.0            | 25               | 0.3              | 0.6              | 9.9           | 52              | 0.44            | 0.129 |
| L3900N 7487.5E          | Soil             | 1.0              | 107.7            | 9.7            | 86               | 0.2              | 22.2             | 12.4           | 285             | 2.18             | 19.0            | 0.8              | 2.5              | 2.6            | 24               | 0.6              | 0.3              | 1.0           | 39              | 0.31            | 0.036 |
| L3900N 7500E            | Soil             | 0.6              | 31.3             | 13.2           | 136              | 0.2              | 19.1             | 7.1            | 476             | 1.99             | 26.0            | 0.4              | 1.0              | 2.8            | 53               | 1.3              | 0.3              | 0.2           | 34              | 0.54            | 0.115 |
| L3900N 7512.5E          | Soil             | 2.4              | 29.1             | 14.9           | 170              | 0.3              | 31.8             | 11.1           | 1078            | 2.70             | 28.8            | 1.5              | 1.1              | 2.6            | 45               | 1.0              | 0.5              | 0.2           | 127             | 1.08            | 0.214 |
| L3900N 7525E            | Soil             | 4.3              | 26.2             | 14.2           | 91               | <0.1             | 30.2             | 9.4            | 852             | 2.91             | 21.5            | 1.1              | 1.4              | 2.7            | 37               | 0.8              | 0.6              | 0.2           | 61              | 1.10            | 0.112 |
| L3900N 7537.5E          | Soil             | 0.8              | 21.1             | 11.9           | 80               | <0.1             | 26.3             | 9.3            | 539             | 2.39             | 17.1            | 0.7              | 1.9              | 3.6            | 22               | 0.4              | 0.4              | 0.2           | 54              | 0.45            | 0.088 |
| L3900N 7550E            | Soil             | 0.7              | 24.6             | 11.7           | 66               | <0.1             | 21.9             | 8.9            | 213             | 2.12             | 20.7            | 0.7              | 2.8              | 3.1            | 13               | 0.1              | 0.3              | 0.2           | 44              | 0.15            | 0.088 |
| L3900N 7562.5E          | Soil             | 0.7              | 21.0             | 18.1           | 139              | 0.1              | 28.4             | 9.4            | 719             | 2.32             | 58.2            | 0.6              | 1.4              | 2.9            | 23               | 0.7              | 0.7              | 0.2           | 47              | 0.38            | 0.159 |
| L3900N 7575E            | Soil             | 0.7              | 18.6             | 19.8           | 134              | 0.1              | 37.1             | 9.5            | 718             | 2.28             | 48.9            | 0.7              | 1.4              | 3.1            | 17               | 0.6              | 0.4              | 0.2           | 50              | 0.31            | 0.162 |
| L3900N 7587.5E          | Soil             | 1.8              | 20.2             | 35.7           | 294              | 0.4              | 31.5             | 8.6            | 937             | 2.39             | 69.2            | 0.8              | 4.8              | 2.8            | 49               | 1.8              | 0.9              | 0.2           | 51              | 1.22            | 0.441 |
| L3900N 7600E            | Soil             | 1.0              | 36.2             | 15.8           | 141              | <0.1             | 33.2             | 9.9            | 438             | 2.52             | 42.2            | 0.6              | 1.6              | 3.2            | 27               | 0.6              | 0.5              | 0.4           | 49              | 0.45            | 0.195 |
| L3900N 7612.5E          | Soil             | 4.5              | 29.8             | 20.7           | 122              | 0.3              | 25.9             | 9.6            | 1247            | 2.77             | 29.8            | 0.9              | 5.2              | 2.6            | 28               | 0.9              | 0.8              | 0.5           | 62              | 0.77            | 0.084 |
| L3900N 7625E            | Soil             | 0.8              | 32.1             | 17.4           | 114              | 0.2              | 25.8             | 8.7            | 483             | 2.24             | 24.2            | 0.5              | 2.8              | 2.9            | 42               | 0.6              | 0.5              | 0.5           | 57              | 0.88            | 0.165 |
| L3900N 7637.5E          | Soil             | 0.3              | 17.3             | 10.9           | 126              | 0.1              | 13.3             | 5.0            | 555             | 1.12             | 13.6            | 0.6              | 2.1              | 2.1            | 65               | 0.5              | 0.1              | 0.2           | 22              | 1.08            | 0.501 |
| L3900N 7650E            | Soil             | 0.6              | 32.7             | 9.3            | 93               | 0.2              | 23.4             | 9.7            | 420             | 2.13             | 21.5            | 0.7              | 1.6              | 3.3            | 29               | 0.3              | 0.2              | 0.2           | 40              | 0.35            | 0.147 |
| L3850N 7150E            | Soil             | 0.7              | 23.6             | 19.3           | 78               | <0.1             | 14.2             | 7.3            | 955             | 1.58             | 23.0            | 0.7              | 7.2              | 0.6            | 32               | 0.8              | 0.4              | 0.2           | 38              | 0.46            | 0.104 |
| L3850N 7162.5E          | Soil             | 0.6              | 21.9             | 18.6           | 79               | 0.1              | 12.6             | 7.2            | 982             | 1.61             | 19.6            | 0.6              | 1.5              | 0.4            | 25               | 0.7              | 0.5              | 0.2           | 38              | 0.28            | 0.095 |
| L3850N 7175E            | Soil             | 0.6              | 20.2             | 19.0           | 71               | 0.1              | 7.5              | 5.3            | 917             | 1.11             | 14.6            | 0.4              | 2.3              | 0.2            | 28               | 1.0              | 0.4              | 0.3           | 33              | 0.39            | 0.112 |
| L3850N 7187.5E          | Soil             | 1.0              | 23.3             | 19.2           | 88               | <0.1             | 14.8             | 8.0            | 1064            | 1.91             | 17.2            | 0.6              | 1.8              | 0.5            | 29               | 0.9              | 0.4              | 0.2           | 43              | 0.38            | 0.113 |
| L3850N 7200E            | Soil             | 0.4              | 18.4             | 8.2            | 64               | <0.1             | 12.8             | 6.7            | 674             | 1.28             | 9.4             | 0.5              | 2.4              | 1.5            | 24               | 0.5              | 0.2              | 0.1           | 36              | 0.33            | 0.070 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3900N 7350E   | Soil  | 6     | 19    | 0.20  | 214   | 0.083 | 2     | 1.74  | 0.020 | 0.07  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 5     | <0.5  |
| L3900N 7362.5E | Soil  | 7     | 24    | 0.27  | 113   | 0.066 | <1    | 1.25  | 0.015 | 0.08  | 0.2   | <0.01 | 1.6   | <0.1  | <0.05 | 4     | <0.5  |
| L3900N 7375    | Soil  | 7     | 23    | 0.26  | 100   | 0.084 | 2     | 1.58  | 0.022 | 0.08  | 0.2   | 0.01  | 2.0   | <0.1  | <0.05 | 4     | <0.5  |
| L3900N 7387.5E | Soil  | 6     | 21    | 0.27  | 128   | 0.090 | 3     | 1.91  | 0.021 | 0.08  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| L3900N 7400E   | Soil  | 5     | 19    | 0.21  | 219   | 0.090 | 2     | 2.37  | 0.016 | 0.09  | 0.1   | 0.02  | 2.0   | 0.1   | 0.05  | 6     | <0.5  |
| L3900N 7412.5E | Soil  | 11    | 30    | 0.42  | 195   | 0.121 | 2     | 2.84  | 0.022 | 0.12  | 0.2   | 0.03  | 3.5   | 0.2   | <0.05 | 7     | <0.5  |
| L3900N 7425E   | Soil  | 8     | 30    | 0.41  | 191   | 0.119 | 3     | 2.90  | 0.018 | 0.13  | 0.2   | 0.03  | 3.1   | 0.2   | <0.05 | 7     | 0.6   |
| L3900N 7437.5E | Soil  | 14    | 34    | 0.97  | 227   | 0.096 | 3     | 2.54  | 0.018 | 0.09  | 0.1   | 0.04  | 3.9   | 0.1   | <0.05 | 7     | 0.7   |
| L3900N 7450E   | Soil  | 10    | 40    | 1.89  | 98    | 0.077 | 4     | 2.57  | 0.014 | 0.04  | 0.2   | 0.03  | 6.8   | <0.1  | <0.05 | 7     | 0.7   |
| L3900N 7462.5E | Soil  | 8     | 29    | 0.88  | 227   | 0.081 | 2     | 2.23  | 0.013 | 0.08  | 0.3   | 0.02  | 2.4   | 0.2   | <0.05 | 7     | <0.5  |
| L3900N 7475E   | Soil  | 10    | 29    | 0.53  | 131   | 0.082 | 2     | 2.38  | 0.015 | 0.08  | 0.9   | 0.03  | 3.1   | 0.2   | <0.05 | 7     | 0.7   |
| L3900N 7487.5E | Soil  | 9     | 23    | 0.29  | 98    | 0.112 | 2     | 2.38  | 0.023 | 0.08  | 0.4   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | <0.5  |
| L3900N 7500E   | Soil  | 11    | 20    | 0.27  | 168   | 0.101 | 4     | 2.61  | 0.026 | 0.10  | 0.4   | 0.03  | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3900N 7512.5E | Soil  | 11    | 44    | 1.15  | 178   | 0.088 | 5     | 2.79  | 0.022 | 0.06  | 0.3   | 0.05  | 3.8   | 0.2   | <0.05 | 7     | 0.9   |
| L3900N 7525E   | Soil  | 12    | 37    | 1.02  | 154   | 0.074 | 4     | 2.94  | 0.023 | 0.08  | 0.2   | 0.03  | 6.1   | 0.2   | <0.05 | 7     | 0.6   |
| L3900N 7537.5E | Soil  | 12    | 33    | 0.50  | 174   | 0.117 | 3     | 2.64  | 0.022 | 0.10  | 0.3   | 0.02  | 3.7   | 0.2   | <0.05 | 7     | <0.5  |
| L3900N 7550E   | Soil  | 8     | 27    | 0.36  | 131   | 0.117 | 2     | 2.79  | 0.022 | 0.06  | 0.2   | 0.02  | 2.8   | 0.2   | <0.05 | 7     | <0.5  |
| L3900N 7562.5E | Soil  | 8     | 31    | 0.37  | 247   | 0.123 | 3     | 2.78  | 0.019 | 0.08  | 0.2   | 0.03  | 2.4   | 0.3   | <0.05 | 7     | <0.5  |
| L3900N 7575E   | Soil  | 10    | 31    | 0.46  | 155   | 0.120 | 2     | 2.89  | 0.023 | 0.06  | 0.2   | 0.03  | 3.1   | 0.3   | <0.05 | 7     | 0.6   |
| L3900N 7587.5E | Soil  | 10    | 32    | 0.94  | 230   | 0.091 | 5     | 2.70  | 0.018 | 0.08  | 0.2   | 0.05  | 3.6   | 0.3   | <0.05 | 6     | 0.9   |
| L3900N 7600E   | Soil  | 11    | 36    | 0.60  | 157   | 0.096 | 3     | 2.51  | 0.022 | 0.11  | 0.3   | 0.02  | 3.8   | 0.2   | <0.05 | 6     | <0.5  |
| L3900N 7612.5E | Soil  | 10    | 31    | 0.79  | 152   | 0.098 | 3     | 2.48  | 0.022 | 0.07  | 0.3   | 0.04  | 3.4   | 0.2   | <0.05 | 6     | 0.6   |
| L3900N 7625E   | Soil  | 14    | 29    | 0.62  | 138   | 0.097 | 6     | 2.16  | 0.023 | 0.12  | 0.2   | 0.03  | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3900N 7637.5E | Soil  | 9     | 11    | 0.18  | 149   | 0.094 | 3     | 2.61  | 0.026 | 0.08  | 0.2   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L3900N 7650E   | Soil  | 13    | 28    | 0.31  | 131   | 0.127 | 4     | 3.01  | 0.028 | 0.12  | 0.2   | 0.02  | 2.9   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7150E   | Soil  | 9     | 17    | 0.29  | 110   | 0.065 | 3     | 1.84  | 0.013 | 0.11  | 0.2   | 0.02  | 1.6   | <0.1  | <0.05 | 6     | <0.5  |
| L3850N 7162.5E | Soil  | 11    | 17    | 0.27  | 96    | 0.057 | 2     | 1.78  | 0.013 | 0.09  | 0.1   | 0.04  | 1.4   | <0.1  | <0.05 | 5     | <0.5  |
| L3850N 7175E   | Soil  | 6     | 10    | 0.20  | 90    | 0.047 | 3     | 1.28  | 0.016 | 0.09  | <0.1  | 0.03  | 1.0   | <0.1  | <0.05 | 5     | <0.5  |
| L3850N 7187.5E | Soil  | 10    | 18    | 0.33  | 136   | 0.069 | 2     | 1.95  | 0.015 | 0.10  | 0.1   | 0.04  | 1.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7200E   | Soil  | 8     | 17    | 0.27  | 81    | 0.080 | 2     | 1.53  | 0.024 | 0.10  | <0.1  | 0.02  | 2.1   | <0.1  | <0.05 | 4     | <0.5  |





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Project: 41

Report Date: January 15, 2008

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**CERTIFICATE OF ANALYSIS**

**VAN07002983.1**

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L3850N 7212.5E          | Soil             | 0.9              | 32.6             | 43.1           | 873              | 0.2              | 37.2             | 11.8           | 1047            | 2.47             | 33.5            | 0.4              | 3.2              | 3.3            | 43               | 7.6              | 0.4              | 0.2           | 51              | 0.47            | 0.122 |
| L3850N 7225E            | Soil             | 1.4              | 28.3             | 30.4           | 768              | 0.1              | 80.3             | 14.1           | 690             | 2.57             | 44.3            | 0.3              | 2.1              | 2.3            | 40               | 3.7              | 0.5              | 0.4           | 47              | 0.41            | 0.123 |
| L3850N 7237.5E          | Soil             | 0.9              | 48.2             | 32.8           | 262              | 0.2              | 44.9             | 13.7           | 459             | 2.57             | 23.3            | 0.9              | 2.1              | 3.7            | 30               | 1.6              | 0.5              | 0.2           | 53              | 0.33            | 0.080 |
| L3850N 7250E            | Soil             | 1.0              | 43.2             | 45.3           | 396              | 0.3              | 43.1             | 12.4           | 400             | 2.51             | 27.5            | 0.8              | 1.3              | 3.5            | 38               | 2.0              | 0.4              | 0.2           | 52              | 0.34            | 0.079 |
| L3850N 7262.5E          | Soil             | 0.5              | 21.7             | 20.7           | 316              | <0.1             | 20.9             | 6.4            | 720             | 1.18             | 19.3            | 0.4              | 1.4              | 2.0            | 40               | 2.6              | 0.2              | 0.1           | 24              | 0.41            | 0.248 |
| L3850N 7275E            | Soil             | 0.8              | 35.1             | 14.2           | 151              | 0.3              | 23.6             | 8.2            | 258             | 1.61             | 20.2            | 0.7              | 1.8              | 3.0            | 25               | 1.0              | 0.3              | 0.1           | 38              | 0.36            | 0.078 |
| L3850N 7287.5E          | Soil             | 1.2              | 32.5             | 13.8           | 154              | 0.2              | 26.3             | 8.3            | 465             | 1.96             | 34.9            | 1.0              | 2.7              | 2.6            | 26               | 0.9              | 0.4              | 0.2           | 43              | 0.30            | 0.131 |
| L3850N 7300E            | Soil             | 0.8              | 30.1             | 9.5            | 140              | 0.1              | 26.7             | 9.0            | 573             | 1.96             | 29.6            | 0.8              | 1.8              | 2.3            | 22               | 0.6              | 0.2              | 0.1           | 41              | 0.24            | 0.173 |
| L3850N 7312.5E          | Soil             | 0.6              | 18.4             | 9.3            | 121              | <0.1             | 17.3             | 6.2            | 776             | 1.24             | 18.0            | 0.3              | 0.9              | 1.5            | 27               | 0.6              | 0.2              | 0.2           | 31              | 0.31            | 0.291 |
| L3850N 7325E            | Soil             | 0.6              | 21.5             | 9.3            | 136              | 0.1              | 25.4             | 8.6            | 694             | 1.86             | 21.3            | 0.4              | 0.9              | 2.4            | 26               | 0.4              | 0.2              | 0.1           | 36              | 0.31            | 0.292 |
| L3850N 7337.5E          | Soil             | 0.7              | 37.5             | 14.5           | 170              | 0.2              | 23.8             | 8.1            | 570             | 1.71             | 28.8            | 0.8              | 2.5              | 3.1            | 32               | 0.9              | 0.4              | 0.2           | 34              | 0.36            | 0.234 |
| L3850N 7350E            | Soil             | 1.3              | 49.0             | 11.6           | 242              | 0.3              | 27.5             | 10.3           | 300             | 2.31             | 20.6            | 0.9              | 4.7              | 5.8            | 26               | 1.0              | 0.3              | 0.2           | 54              | 0.27            | 0.047 |
| L3850N 7350AE           | Soil             | 0.6              | 35.5             | 12.0           | 135              | 0.2              | 25.4             | 10.0           | 337             | 2.20             | 27.4            | 1.1              | 2.9              | 3.6            | 21               | 0.4              | 0.2              | 0.3           | 44              | 0.23            | 0.286 |
| L3850N 7362.5E          | Soil             | 1.1              | 87.8             | 14.5           | 170              | 0.3              | 22.5             | 9.5            | 512             | 2.07             | 21.1            | 0.8              | 5.3              | 3.3            | 31               | 1.0              | 0.3              | 0.8           | 47              | 0.39            | 0.101 |
| L3850N 7375E            | Soil             | 0.8              | 30.2             | 18.8           | 123              | 0.1              | 19.8             | 8.4            | 715             | 1.80             | 18.0            | 0.4              | 1.6              | 2.3            | 45               | 0.7              | 0.4              | 0.4           | 42              | 0.49            | 0.097 |
| L3850N 7400E            | Soil             | 0.8              | 36.9             | 13.4           | 121              | <0.1             | 28.2             | 11.5           | 390             | 2.41             | 27.1            | 0.5              | 3.9              | 3.7            | 23               | 0.4              | 0.4              | 0.2           | 53              | 0.21            | 0.086 |
| L3850N 7412.5E          | Soil             | 0.6              | 18.7             | 10.4           | 147              | 0.1              | 23.6             | 6.7            | 584             | 1.79             | 44.8            | 0.6              | 2.5              | 2.5            | 26               | 0.7              | 0.3              | 0.2           | 42              | 0.23            | 0.219 |
| L3850N 7425E            | Soil             | 1.6              | 24.2             | 19.3           | 290              | 0.8              | 52.8             | 9.6            | 405             | 2.82             | 110.0           | 1.4              | 3.3              | 2.3            | 40               | 2.3              | 0.9              | 0.3           | 148             | 0.63            | 0.069 |
| L3850N 7437.5E          | Soil             | 0.6              | 28.4             | 31.9           | 214              | 0.3              | 12.5             | 5.3            | 1153            | 1.29             | 23.3            | 0.3              | 2.1              | 1.4            | 96               | 2.5              | 0.9              | 0.4           | 35              | 1.68            | 0.187 |
| L3850N 7450E            | Soil             | 0.6              | 25.6             | 12.4           | 278              | 0.1              | 20.6             | 6.9            | 431             | 1.82             | 19.4            | 0.9              | 2.1              | 3.0            | 27               | 1.9              | 0.2              | 0.2           | 40              | 0.28            | 0.118 |
| L3850N 7462.5E          | Soil             | 0.6              | 25.5             | 11.4           | 130              | 0.1              | 39.4             | 9.7            | 365             | 2.19             | 19.3            | 0.5              | 3.9              | 3.7            | 24               | 0.6              | 0.2              | 0.2           | 50              | 0.21            | 0.116 |
| L3850N 7475E            | Soil             | 0.5              | 30.0             | 11.5           | 73               | 0.2              | 32.2             | 8.4            | 297             | 2.05             | 18.2            | 1.2              | 2.3              | 3.7            | 24               | 0.3              | 0.3              | 0.2           | 46              | 0.19            | 0.103 |
| L3850N 7487.5E          | Soil             | 0.6              | 45.2             | 12.4           | 102              | 0.2              | 29.7             | 9.8            | 370             | 2.23             | 15.5            | 1.4              | 1.9              | 3.8            | 27               | 1.1              | 0.3              | 0.5           | 53              | 0.23            | 0.085 |
| L3850N 7500E            | Soil             | 0.4              | 18.9             | 10.0           | 129              | 0.1              | 21.8             | 7.7            | 707             | 1.70             | 11.7            | 0.3              | 2.2              | 1.8            | 21               | 0.6              | 0.2              | 0.9           | 40              | 0.22            | 0.081 |
| L3850N 7512.5E          | Soil             | 0.5              | 19.4             | 8.0            | 75               | 0.1              | 19.7             | 7.6            | 506             | 1.76             | 10.9            | 0.3              | 1.8              | 2.2            | 17               | 0.3              | 0.3              | 0.2           | 43              | 0.19            | 0.074 |
| L3850N 7525E            | Soil             | 0.8              | 26.1             | 10.1           | 102              | <0.1             | 31.0             | 11.5           | 537             | 2.54             | 13.9            | 0.7              | 5.0              | 3.4            | 22               | 0.3              | 0.3              | 0.2           | 64              | 0.27            | 0.113 |
| L3850N 7537.5E          | Soil             | 0.7              | 29.4             | 12.7           | 94               | 0.1              | 32.8             | 10.1           | 578             | 2.39             | 11.1            | 0.5              | 2.2              | 3.9            | 29               | 0.6              | 0.5              | 0.2           | 57              | 0.49            | 0.090 |
| L3850N 7550E            | Soil             | 0.5              | 24.5             | 10.0           | 123              | <0.1             | 25.3             | 7.7            | 519             | 1.84             | 14.4            | 0.4              | 1.0              | 2.7            | 26               | 0.5              | 0.2              | 0.2           | 38              | 0.23            | 0.143 |
| L3850N 7562.5E          | Soil             | 0.5              | 13.8             | 9.0            | 72               | <0.1             | 15.4             | 5.8            | 461             | 1.43             | 11.9            | 0.3              | 2.4              | 2.3            | 18               | 0.3              | 0.2              | 0.2           | 31              | 0.15            | 0.109 |
| L3850N 7575E            | Soil             | 0.4              | 17.7             | 9.9            | 106              | <0.1             | 21.5             | 7.6            | 758             | 1.81             | 22.9            | 0.4              | 6.3              | 2.5            | 25               | 0.3              | 0.4              | 0.2           | 42              | 0.23            | 0.158 |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method<br>Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   |      | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
| MDL               |      | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
|                   |      | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   |       |
| L3850N 7212.5E    | Soil | 11    | 29    | 0.44  | 170   | 0.124 | 6     | 2.58  | 0.017 | 0.18  | 0.2   | 0.03  | 3.7   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7225E      | Soil | 7     | 28    | 0.39  | 116   | 0.100 | 5     | 2.07  | 0.041 | 0.12  | 0.3   | 0.02  | 3.0   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7237.5E    | Soil | 14    | 29    | 0.43  | 86    | 0.135 | 4     | 2.76  | 0.031 | 0.18  | 0.2   | 0.02  | 4.9   | 0.2   | <0.05 | 8     | <0.5  |
| L3850N 7250E      | Soil | 13    | 30    | 0.42  | 114   | 0.119 | 3     | 2.48  | 0.034 | 0.17  | 0.1   | 0.03  | 4.7   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7262.5E    | Soil | 8     | 14    | 0.19  | 182   | 0.090 | 5     | 1.96  | 0.026 | 0.09  | 0.1   | 0.02  | 2.3   | 0.1   | <0.05 | 5     | <0.5  |
| L3850N 7275E      | Soil | 11    | 23    | 0.31  | 97    | 0.104 | 2     | 2.27  | 0.035 | 0.10  | 0.2   | 0.02  | 3.4   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7287.5E    | Soil | 12    | 24    | 0.33  | 121   | 0.102 | 2     | 2.38  | 0.033 | 0.12  | 0.1   | 0.02  | 3.6   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7300E      | Soil | 10    | 26    | 0.32  | 164   | 0.101 | 3     | 2.38  | 0.029 | 0.12  | 0.1   | 0.01  | 3.0   | 0.2   | <0.05 | 6     | <0.5  |
| L3850N 7312.5E    | Soil | 5     | 18    | 0.22  | 274   | 0.087 | 2     | 1.68  | 0.025 | 0.11  | 0.1   | 0.02  | 1.9   | <0.1  | <0.05 | 5     | <0.5  |
| L3850N 7325E      | Soil | 6     | 24    | 0.30  | 317   | 0.102 | 4     | 2.25  | 0.024 | 0.13  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7337.5E    | Soil | 11    | 24    | 0.36  | 193   | 0.107 | 4     | 2.49  | 0.034 | 0.12  | 0.3   | 0.03  | 3.3   | 0.2   | <0.05 | 6     | <0.5  |
| L3850N 7350E      | Soil | 23    | 35    | 0.45  | 155   | 0.110 | 3     | 2.01  | 0.031 | 0.16  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 6     | <0.5  |
| L3850N 7350AE     | Soil | 9     | 28    | 0.38  | 193   | 0.108 | 2     | 2.65  | 0.025 | 0.12  | 0.2   | 0.03  | 3.0   | 0.1   | <0.05 | 7     | <0.5  |
| L3850N 7362.5E    | Soil | 12    | 29    | 0.41  | 168   | 0.092 | 3     | 1.75  | 0.025 | 0.15  | 0.2   | 0.03  | 3.2   | 0.2   | <0.05 | 6     | <0.5  |
| L3850N 7375E      | Soil | 7     | 25    | 0.34  | 260   | 0.094 | 3     | 1.62  | 0.040 | 0.15  | 0.2   | <0.01 | 2.4   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7400E      | Soil | 8     | 37    | 0.51  | 226   | 0.120 | 2     | 2.33  | 0.031 | 0.15  | 0.2   | 0.03  | 3.1   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7412.5E    | Soil | 6     | 22    | 0.38  | 227   | 0.093 | 3     | 2.24  | 0.029 | 0.10  | 0.2   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7425E      | Soil | 19    | 59    | 1.76  | 136   | 0.064 | 4     | 2.22  | 0.025 | 0.06  | 0.3   | 0.07  | 4.8   | 0.2   | <0.05 | 7     | 1.8   |
| L3850N 7437.5E    | Soil | 5     | 16    | 0.31  | 270   | 0.065 | 10    | 1.14  | 0.054 | 0.14  | <0.1  | 0.01  | 1.7   | 0.1   | <0.05 | 4     | 0.6   |
| L3850N 7450E      | Soil | 10    | 21    | 0.49  | 144   | 0.115 | 2     | 2.76  | 0.036 | 0.08  | 0.2   | 0.03  | 3.1   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7462.5E    | Soil | 8     | 32    | 0.46  | 185   | 0.104 | 2     | 2.20  | 0.026 | 0.11  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7475E      | Soil | 12    | 31    | 0.42  | 148   | 0.124 | 2     | 2.88  | 0.032 | 0.10  | 0.1   | 0.03  | 3.5   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7487.5E    | Soil | 17    | 34    | 0.47  | 179   | 0.123 | 2     | 2.48  | 0.035 | 0.11  | 0.2   | 0.03  | 3.5   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7500E      | Soil | 5     | 27    | 0.35  | 217   | 0.082 | 2     | 1.37  | 0.016 | 0.11  | 0.2   | 0.01  | 1.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3850N 7512.5E    | Soil | 6     | 27    | 0.33  | 198   | 0.093 | 1     | 1.56  | 0.024 | 0.09  | 0.1   | 0.01  | 1.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3850N 7525E      | Soil | 8     | 40    | 0.61  | 156   | 0.124 | 2     | 2.27  | 0.033 | 0.09  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7537.5E    | Soil | 14    | 39    | 0.64  | 206   | 0.112 | 3     | 2.31  | 0.029 | 0.12  | 0.2   | 0.02  | 4.4   | 0.2   | <0.05 | 6     | <0.5  |
| L3850N 7550E      | Soil | 7     | 26    | 0.35  | 215   | 0.090 | 2     | 1.85  | 0.023 | 0.11  | 0.2   | 0.02  | 2.1   | 0.1   | <0.05 | 5     | <0.5  |
| L3850N 7562.5E    | Soil | 5     | 19    | 0.24  | 182   | 0.070 | 1     | 1.28  | 0.018 | 0.08  | 0.2   | 0.01  | 1.5   | 0.1   | <0.05 | 4     | <0.5  |
| L3850N 7575E      | Soil | 7     | 26    | 0.49  | 254   | 0.091 | 2     | 1.83  | 0.024 | 0.10  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |



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Report Date: January 15, 2008

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## CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |         | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |
| Unit           |         | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |
| MDL            |         | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |
| L3850N 7587E   | Soil    | 0.7   | 25.1  | 14.1  | 147   | <0.1  | 26.1  | 9.3   | 1010  | 2.36  | 20.2  | 0.6   | 2.4   | 3.8   | 38    | 0.9   | 0.4   | 0.2   | 60    | 0.65  | 0.205 |
| L3850N 7600E   | Soil    | 0.6   | 25.6  | 12.1  | 82    | <0.1  | 26.1  | 9.6   | 529   | 2.45  | 11.0  | 0.8   | 1.8   | 4.4   | 20    | 0.2   | 0.2   | 0.2   | 56    | 0.28  | 0.128 |
| L3850N 7612.5E | Soil    | 0.4   | 17.2  | 10.2  | 93    | <0.1  | 19.3  | 7.1   | 719   | 1.87  | 10.2  | 0.4   | 1.4   | 3.1   | 23    | 0.3   | 0.2   | 0.2   | 43    | 0.27  | 0.089 |
| L3850N 7625E   | Soil    | 0.7   | 30.5  | 16.6  | 73    | <0.1  | 25.9  | 10.3  | 334   | 2.53  | 22.8  | 1.1   | 2.8   | 5.0   | 25    | 0.2   | 0.4   | 0.8   | 60    | 0.34  | 0.118 |
| L3850N 7637.5E | Soil    | 0.5   | 13.4  | 15.2  | 149   | <0.1  | 18.6  | 6.6   | 632   | 1.70  | 12.3  | 0.4   | 1.2   | 2.9   | 31    | 0.7   | 0.2   | 0.2   | 36    | 0.42  | 0.244 |
| L3850N 7650E   | Soil    | 0.8   | 27.4  | 15.0  | 104   | 0.2   | 25.5  | 9.1   | 621   | 2.24  | 17.2  | 0.6   | 1.6   | 4.3   | 27    | 0.8   | 0.4   | 0.3   | 49    | 0.49  | 0.139 |



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Report Date:

January 15, 2008

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Part 2

## CERTIFICATE OF ANALYSIS

VAN07002983.1

| Method         | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |         | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
| Unit           |         | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            |         | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   |       |
| L3850N 7587E   | Soil    | 13    | 42    | 0.74  | 269   | 0.105 | 4     | 2.46  | 0.030 | 0.12  | 0.2   | 0.02  | 3.8   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7600E   | Soil    | 14    | 36    | 0.53  | 169   | 0.116 | 2     | 2.41  | 0.026 | 0.09  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 7     | <0.5  |
| L3850N 7612.5E | Soil    | 10    | 27    | 0.36  | 206   | 0.091 | 2     | 1.70  | 0.026 | 0.09  | 0.2   | 0.01  | 2.3   | 0.1   | <0.05 | 6     | <0.5  |
| L3850N 7625E   | Soil    | 27    | 39    | 0.53  | 141   | 0.104 | 2     | 2.35  | 0.025 | 0.11  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 7     | <0.5  |
| L3850N 7637.5E | Soil    | 9     | 25    | 0.35  | 171   | 0.088 | 3     | 1.67  | 0.029 | 0.12  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3850N 7650E   | Soil    | 16    | 33    | 0.52  | 132   | 0.100 | 4     | 2.15  | 0.031 | 0.12  | 0.2   | 0.01  | 3.5   | 0.2   | <0.05 | 6     | <0.5  |

**QUALITY CONTROL REPORT**

**VAN07002983.1**

| Method<br>Analyte<br>Unit<br>MDL | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15          | 1DX15           | 1DX15            | 1DX15           | 1DX15            | 1DX15            | 1DX15          | 1DX15            | 1DX15            | 1DX15            | 1DX15         | 1DX15           | 1DX15           |       |
|----------------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
|                                  | Mo<br>ppm<br>0.1 | Cu<br>ppm<br>0.1 | Pb<br>ppm<br>0.1 | Zn<br>ppm<br>1 | Ag<br>ppm<br>0.1 | Ni<br>ppm<br>0.1 | Co<br>ppm<br>0.1 | Mn<br>ppm<br>1 | Fe<br>%<br>0.01 | As<br>ppm<br>0.5 | U<br>ppm<br>0.1 | Au<br>ppb<br>0.5 | Th<br>ppm<br>0.1 | Sr<br>ppm<br>1 | Cd<br>ppm<br>0.1 | Sb<br>ppm<br>0.1 | Bi<br>ppm<br>0.1 | V<br>ppm<br>2 | Ca<br>%<br>0.01 | P<br>%<br>0.001 |       |
| Pulp Duplicates                  |                  |                  |                  |                |                  |                  |                  |                |                 |                  |                 |                  |                  |                |                  |                  |                  |               |                 |                 |       |
| L4150N 7212.5E                   | Soil             | 0.5              | 14.7             | 7.6            | 57               | <0.1             | 9.6              | 5.6            | 755             | 1.50             | 10.3            | 0.3              | 1.3              | 0.9            | 18               | 0.2              | 0.3              | 0.2           | 36              | 0.18            | 0.092 |
| REP L4150N 7212.5E               | QC               | 0.4              | 14.9             | 7.5            | 58               | <0.1             | 9.6              | 5.6            | 758             | 1.51             | 10.1            | 0.3              | <0.5             | 0.9            | 18               | 0.2              | 0.2              | 0.2           | 36              | 0.17            | 0.090 |
| L4150N 7450E                     | Soil             | 0.5              | 18.0             | 6.5            | 64               | <0.1             | 15.7             | 5.9            | 527             | 1.59             | 10.9            | 0.4              | 1.4              | 2.3            | 25               | 0.1              | 0.1              | 0.2           | 31              | 0.15            | 0.274 |
| REP L4150N 7450E                 | QC               | 0.5              | 16.6             | 7.1            | 66               | <0.1             | 15.1             | 5.8            | 538             | 1.59             | 10.7            | 0.4              | <0.5             | 2.3            | 25               | 0.1              | 0.1              | 0.2           | 31              | 0.14            | 0.272 |
| L4150N 7587.5E                   | Soil             | 0.8              | 26.3             | 13.9           | 54               | 0.1              | 18.4             | 6.3            | 280             | 1.99             | 22.1            | 0.7              | 4.6              | 4.7            | 33               | 0.2              | 0.4              | 0.2           | 43              | 0.35            | 0.070 |
| REP L4150N 7587.5E               | QC               | 0.8              | 25.0             | 13.7           | 54               | 0.1              | 18.2             | 6.1            | 269             | 1.95             | 22.4            | 0.6              | 3.9              | 4.5            | 33               | 0.2              | 0.4              | 0.2           | 40              | 0.36            | 0.072 |
| L4100N 7362.5E                   | Soil             | 0.3              | 24.4             | 7.9            | 86               | <0.1             | 17.8             | 7.1            | 611             | 1.58             | 9.4             | 0.6              | 1.7              | 2.2            | 27               | 0.2              | 0.2              | 0.2           | 29              | 0.20            | 0.117 |
| REP L4100N 7362.5E               | QC               | 0.4              | 24.5             | 8.0            | 87               | <0.1             | 18.4             | 7.1            | 616             | 1.58             | 9.6             | 0.6              | 1.3              | 2.3            | 29               | 0.2              | 0.2              | 0.2           | 29              | 0.21            | 0.120 |
| L4050N 7200E                     | Soil             | 0.3              | 22.9             | 9.8            | 60               | <0.1             | 17.8             | 7.1            | 463             | 1.69             | 10.8            | 0.6              | 0.7              | 2.6            | 22               | 0.3              | 0.3              | 0.2           | 35              | 0.21            | 0.047 |
| REP L4050N 7200E                 | QC               | 0.3              | 22.9             | 10.1           | 65               | <0.1             | 17.9             | 7.2            | 454             | 1.66             | 11.1            | 0.7              | 1.0              | 2.7            | 22               | 0.3              | 0.2              | 0.2           | 36              | 0.21            | 0.047 |
| L4050N 7312.5E                   | Soil             | 0.4              | 26.8             | 9.7            | 60               | <0.1             | 16.8             | 8.3            | 707             | 2.01             | 14.3            | 0.6              | 0.9              | 2.9            | 63               | 0.3              | 0.3              | 0.2           | 42              | 0.38            | 0.224 |
| REP L4050N 7312.5E               | QC               | 0.3              | 26.9             | 9.3            | 64               | <0.1             | 17.4             | 8.5            | 708             | 2.00             | 14.2            | 0.5              | 2.2              | 3.1            | 61               | 0.3              | 0.2              | 0.2           | 43              | 0.38            | 0.229 |
| L4050N 7525E                     | Soil             | 0.3              | 6.2              | 3.1            | 27               | <0.1             | 2.7              | 1.7            | 276             | 0.53             | 8.6             | <0.1             | <0.5             | 0.3            | 19               | 0.2              | 0.1              | <0.1          | 15              | 0.20            | 0.047 |
| REP L4050N 7525E                 | QC               | 0.3              | 6.6              | 3.4            | 27               | <0.1             | 3.0              | 2.0            | 284             | 0.54             | 9.0             | <0.1             | <0.5             | 0.3            | 20               | 0.2              | 0.1              | 0.1           | 15              | 0.21            | 0.050 |
| L4000N 7312.5E                   | Soil             | 0.3              | 21.2             | 10.1           | 57               | <0.1             | 14.2             | 5.7            | 479             | 1.55             | 10.5            | 0.6              | 1.1              | 2.2            | 32               | 0.2              | 0.2              | 0.2           | 27              | 0.31            | 0.131 |
| REP L4000N 7312.5E               | QC               | 0.3              | 23.0             | 10.2           | 61               | <0.1             | 14.9             | 5.6            | 471             | 1.57             | 11.4            | 0.6              | 1.0              | 2.6            | 34               | 0.2              | 0.2              | 0.2           | 27              | 0.29            | 0.136 |
| L4000N 7650E                     | Soil             | 0.5              | 29.5             | 11.4           | 82               | <0.1             | 27.3             | 11.1           | 553             | 2.47             | 15.7            | 0.8              | 4.2              | 3.6            | 35               | 0.3              | 0.2              | 0.3           | 52              | 0.37            | 0.118 |
| REP L4000N 7650E                 | QC               | 0.5              | 29.3             | 12.3           | 85               | 0.1              | 25.9             | 11.6           | 556             | 2.63             | 15.5            | 0.8              | 3.0              | 3.6            | 35               | 0.2              | 0.2              | 0.3           | 53              | 0.37            | 0.126 |
| L3950N 7262.5E                   | Soil             | 0.7              | 31.8             | 12.7           | 73               | 0.2              | 15.4             | 7.7            | 1075            | 1.75             | 11.2            | 0.8              | 3.8              | 0.6            | 44               | 0.8              | 0.2              | 0.2           | 42              | 0.54            | 0.066 |
| REP L3950N 7262.5E               | QC               | 0.5              | 29.1             | 12.9           | 75               | 0.2              | 15.5             | 8.2            | 1090            | 1.79             | 11.3            | 0.8              | 2.5              | 0.6            | 43               | 0.7              | 0.3              | 0.2           | 45              | 0.56            | 0.073 |
| L3950N 7437.5E                   | Soil             | 0.6              | 19.1             | 7.9            | 61               | <0.1             | 16.2             | 6.4            | 323             | 1.48             | 16.0            | 0.3              | 1.9              | 1.6            | 19               | 0.2              | 0.2              | 0.2           | 30              | 0.28            | 0.064 |
| REP L3950N 7437.5E               | QC               | 0.7              | 18.8             | 8.2            | 62               | <0.1             | 16.7             | 6.1            | 315             | 1.47             | 15.8            | 0.2              | 1.6              | 1.7            | 19               | 0.2              | 0.2              | 0.2           | 32              | 0.28            | 0.062 |
| L3900N 7387.5E                   | Soil             | 2.2              | 30.2             | 23.1           | 102              | 0.1              | 21.7             | 7.2            | 226             | 1.71             | 19.6            | 0.5              | 1.7              | 2.6            | 24               | 0.3              | 0.3              | 0.1           | 37              | 0.26            | 0.160 |
| REP L3900N 7387.5E               | QC               | 2.1              | 29.7             | 22.3           | 103              | 0.1              | 20.3             | 7.4            | 230             | 1.73             | 19.2            | 0.5              | 3.4              | 2.6            | 24               | 0.2              | 0.3              | 0.1           | 37              | 0.25            | 0.158 |
| L3900N 7550E                     | Soil             | 0.7              | 24.6             | 11.7           | 66               | <0.1             | 21.9             | 8.9            | 213             | 2.12             | 20.7            | 0.7              | 2.8              | 3.1            | 13               | 0.1              | 0.3              | 0.2           | 44              | 0.15            | 0.088 |
| REP L3900N 7550E                 | QC               | 0.6              | 24.9             | 11.9           | 67               | <0.1             | 22.9             | 8.4            | 204             | 2.08             | 19.9            | 0.7              | 1.7              | 3.2            | 13               | 0.2              | 0.2              | 0.2           | 43              | 0.14            | 0.087 |
| L3850N 7225E                     | Soil             | 1.4              | 28.3             | 30.4           | 768              | 0.1              | 80.3             | 14.1           | 690             | 2.57             | 44.3            | 0.3              | 2.1              | 2.3            | 40               | 3.7              | 0.5              | 0.4           | 47              | 0.41            | 0.123 |
| REP L3850N 7225E                 | QC               | 1.3              | 25.6             | 29.1           | 734              | 0.1              | 77.6             | 12.6           | 634             | 2.41             | 43.0            | 0.3              | 3.1              | 2.4            | 40               | 3.4              | 0.5              | 0.4           | 47              | 0.41            | 0.122 |

**QUALITY CONTROL REPORT**

**VAN07002983.1**

| Method             | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte            | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit               | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL                | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| Pulp Duplicates    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| L4150N 7212.5E     | Soil  | 5     | 14    | 0.24  | 113   | 0.070 | <1    | 0.96  | 0.016 | 0.06  | 0.2   | 0.03  | 1.3   | <0.1  | 0.07  | 5     | <0.5 |
| REP L4150N 7212.5E | QC    | 5     | 15    | 0.23  | 114   | 0.069 | 1     | 0.95  | 0.017 | 0.06  | 0.2   | 0.03  | 1.3   | <0.1  | 0.07  | 5     | <0.5 |
| L4150N 7450E       | Soil  | 8     | 20    | 0.24  | 219   | 0.078 | 2     | 1.82  | 0.021 | 0.09  | 0.2   | 0.01  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4150N 7450E   | QC    | 8     | 19    | 0.25  | 223   | 0.078 | 2     | 1.80  | 0.020 | 0.09  | 0.2   | 0.01  | 1.9   | <0.1  | <0.05 | 5     | <0.5 |
| L4150N 7587.5E     | Soil  | 29    | 28    | 0.31  | 103   | 0.085 | 3     | 1.73  | 0.020 | 0.08  | 0.2   | 0.02  | 2.7   | <0.1  | <0.05 | 5     | <0.5 |
| REP L4150N 7587.5E | QC    | 29    | 27    | 0.31  | 101   | 0.087 | 3     | 1.77  | 0.020 | 0.08  | 0.2   | 0.02  | 2.7   | <0.1  | <0.05 | 5     | <0.5 |
| L4100N 7362.5E     | Soil  | 11    | 18    | 0.26  | 210   | 0.095 | 2     | 2.09  | 0.034 | 0.09  | 0.1   | 0.03  | 2.2   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4100N 7362.5E | QC    | 11    | 19    | 0.27  | 208   | 0.097 | 2     | 2.14  | 0.037 | 0.09  | 0.1   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L4050N 7200E       | Soil  | 10    | 22    | 0.34  | 145   | 0.110 | 2     | 2.13  | 0.030 | 0.10  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| REP L4050N 7200E   | QC    | 10    | 23    | 0.35  | 149   | 0.109 | 2     | 2.19  | 0.030 | 0.09  | 0.2   | 0.01  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L4050N 7312.5E     | Soil  | 11    | 26    | 0.39  | 236   | 0.103 | 3     | 2.09  | 0.027 | 0.18  | 0.2   | 0.02  | 3.8   | 0.1   | <0.05 | 6     | <0.5 |
| REP L4050N 7312.5E | QC    | 11    | 25    | 0.41  | 219   | 0.100 | 3     | 2.14  | 0.027 | 0.18  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 6     | <0.5 |
| L4050N 7525E       | Soil  | 2     | 5     | 0.07  | 82    | 0.033 | 1     | 0.37  | 0.023 | 0.05  | <0.1  | 0.02  | 0.5   | <0.1  | <0.05 | 1     | <0.5 |
| REP L4050N 7525E   | QC    | 2     | 6     | 0.07  | 84    | 0.034 | 1     | 0.37  | 0.024 | 0.05  | <0.1  | 0.01  | 0.5   | <0.1  | <0.05 | 2     | 0.5  |
| L4000N 7312.5E     | Soil  | 8     | 17    | 0.27  | 186   | 0.097 | 3     | 2.01  | 0.027 | 0.12  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5 |
| REP L4000N 7312.5E | QC    | 9     | 16    | 0.27  | 179   | 0.099 | 4     | 1.97  | 0.027 | 0.11  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | 0.7  |
| L4000N 7650E       | Soil  | 16    | 39    | 0.60  | 135   | 0.123 | 2     | 2.06  | 0.026 | 0.14  | 0.1   | 0.02  | 3.8   | 0.2   | <0.05 | 6     | <0.5 |
| REP L4000N 7650E   | QC    | 17    | 41    | 0.62  | 138   | 0.122 | 3     | 2.16  | 0.027 | 0.15  | 0.1   | 0.01  | 3.9   | 0.2   | <0.05 | 7     | <0.5 |
| L3950N 7262.5E     | Soil  | 13    | 23    | 0.38  | 116   | 0.063 | <1    | 1.43  | 0.019 | 0.10  | <0.1  | 0.03  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| REP L3950N 7262.5E | QC    | 13    | 23    | 0.40  | 118   | 0.068 | <1    | 1.50  | 0.020 | 0.11  | <0.1  | 0.01  | 2.1   | 0.1   | <0.05 | 5     | <0.5 |
| L3950N 7437.5E     | Soil  | 4     | 18    | 0.26  | 134   | 0.082 | 2     | 1.45  | 0.021 | 0.09  | 0.2   | 0.02  | 1.5   | <0.1  | <0.05 | 5     | <0.5 |
| REP L3950N 7437.5E | QC    | 4     | 19    | 0.26  | 139   | 0.083 | 2     | 1.45  | 0.021 | 0.09  | 0.1   | 0.02  | 1.4   | <0.1  | <0.05 | 5     | <0.5 |
| L3900N 7387.5E     | Soil  | 6     | 21    | 0.27  | 128   | 0.090 | 3     | 1.91  | 0.021 | 0.08  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| REP L3900N 7387.5E | QC    | 6     | 21    | 0.27  | 128   | 0.090 | 2     | 1.92  | 0.022 | 0.08  | 0.2   | 0.03  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L3900N 7550E       | Soil  | 8     | 27    | 0.36  | 131   | 0.117 | 2     | 2.79  | 0.022 | 0.06  | 0.2   | 0.02  | 2.8   | 0.2   | <0.05 | 7     | <0.5 |
| REP L3900N 7550E   | QC    | 8     | 27    | 0.36  | 129   | 0.117 | 2     | 2.72  | 0.022 | 0.06  | 0.2   | 0.01  | 2.9   | 0.2   | <0.05 | 7     | <0.5 |
| L3850N 7225E       | Soil  | 7     | 28    | 0.39  | 116   | 0.100 | 5     | 2.07  | 0.041 | 0.12  | 0.3   | 0.02  | 3.0   | 0.1   | <0.05 | 6     | <0.5 |
| REP L3850N 7225E   | QC    | 7     | 26    | 0.38  | 116   | 0.104 | 4     | 2.15  | 0.044 | 0.12  | 0.1   | 0.02  | 2.9   | 0.1   | <0.05 | 6     | <0.5 |

**QUALITY CONTROL REPORT**

**VAN07002983.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                     |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P      |
|                     |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %      |
|                     |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001  |
| L3850N 7350E        | Soil     | 1.3   | 49.0  | 11.6  | 242   | 0.3   | 27.5  | 10.3  | 300   | 2.31  | 20.6  | 0.9   | 4.7   | 5.8   | 26    | 1.0   | 0.3   | 0.2   | 54    | 0.27  | 0.047  |
| REP L3850N 7350E    | QC       | 1.3   | 49.5  | 11.9  | 246   | 0.3   | 29.2  | 10.7  | 299   | 2.38  | 20.5  | 0.9   | 45.9  | 5.5   | 26    | 1.1   | 0.3   | 0.2   | 55    | 0.27  | 0.047  |
| L3850N 7637.5E      | Soil     | 0.5   | 13.4  | 15.2  | 149   | <0.1  | 18.6  | 6.6   | 632   | 1.70  | 12.3  | 0.4   | 1.2   | 2.9   | 31    | 0.7   | 0.2   | 0.2   | 36    | 0.42  | 0.244  |
| REP L3850N 7637.5E  | QC       | 0.5   | 14.6  | 15.1  | 158   | <0.1  | 20.3  | 6.9   | 665   | 1.83  | 12.8  | 0.4   | 1.9   | 2.9   | 31    | 0.7   | 0.3   | 0.3   | 37    | 0.42  | 0.254  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 20.2  | 101.1 | 68.9  | 403   | 0.8   | 58.2  | 9.9   | 617   | 2.41  | 50.1  | 4.8   | 68.2  | 4.5   | 68    | 6.2   | 5.6   | 4.2   | 85    | 0.93  | 0.082  |
| STD DS7             | Standard | 20.0  | 104.1 | 71.9  | 416   | 0.8   | 58.7  | 9.6   | 654   | 2.47  | 52.7  | 5.1   | 65.4  | 4.8   | 80    | 6.5   | 6.4   | 4.6   | 91    | 0.97  | 0.081  |
| STD DS7             | Standard | 20.6  | 100.0 | 72.8  | 398   | 0.8   | 57.3  | 9.4   | 632   | 2.34  | 50.0  | 5.3   | 123.2 | 5.0   | 79    | 6.0   | 6.4   | 4.8   | 86    | 0.96  | 0.075  |
| STD DS7             | Standard | 18.9  | 99.5  | 61.9  | 367   | 0.8   | 49.1  | 8.4   | 585   | 2.20  | 49.6  | 4.8   | 57.8  | 4.3   | 72    | 6.8   | 6.2   | 4.8   | 82    | 0.88  | 0.077  |
| STD DS7             | Standard | 20.3  | 104.0 | 70.4  | 394   | 0.8   | 56.1  | 9.4   | 575   | 2.27  | 47.4  | 5.0   | 65.0  | 4.5   | 68    | 5.8   | 5.6   | 4.3   | 84    | 0.89  | 0.074  |
| STD DS7             | Standard | 20.2  | 107.3 | 63.4  | 379   | 0.8   | 53.3  | 9.2   | 583   | 2.23  | 50.9  | 5.0   | 56.7  | 4.4   | 74    | 6.5   | 6.3   | 4.8   | 86    | 0.94  | 0.076  |
| STD DS7             | Standard | 21.7  | 106.0 | 69.9  | 405   | 0.8   | 56.6  | 9.4   | 624   | 2.58  | 48.4  | 5.3   | 73.6  | 4.6   | 75    | 5.7   | 5.9   | 4.5   | 92    | 0.96  | 0.068  |
| STD DS7             | Standard | 22.8  | 111.8 | 84.2  | 420   | 0.9   | 61.4  | 10.2  | 657   | 2.54  | 57.4  | 6.1   | 72.8  | 5.7   | 80    | 7.4   | 7.4   | 5.7   | 93    | 1.00  | 0.085  |
| STD DS7 Expected    |          | 20.92 | 109   | 70.6  | 411   | 0.89  | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 68.7  | 6.38  | 5.86  | 4.51  | 86    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |

**QUALITY CONTROL REPORT**

**VAN07002983.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |          | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se   |
|                     |          | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm  |
|                     |          | 1     | 1     | 0.01  | 1     | 0.001  | 1     | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5  |
| L3850N 7350E        | Soil     | 23    | 35    | 0.45  | 155   | 0.110  | 3     | 2.01  | 0.031  | 0.16  | 0.2   | 0.02  | 4.7   | 0.2   | <0.05 | 6     | <0.5 |
| REP L3850N 7350E    | QC       | 24    | 36    | 0.47  | 159   | 0.111  | 3     | 2.04  | 0.034  | 0.16  | 0.2   | 0.02  | 4.6   | 0.2   | <0.05 | 6     | <0.5 |
| L3850N 7637.5E      | Soil     | 9     | 25    | 0.35  | 171   | 0.088  | 3     | 1.67  | 0.029  | 0.12  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| REP L3850N 7637.5E  | QC       | 10    | 26    | 0.35  | 177   | 0.087  | 4     | 1.74  | 0.030  | 0.12  | 0.2   | 0.02  | 2.3   | 0.2   | <0.05 | 5     | <0.5 |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |      |
| STD DS7             | Standard | 12    | 206   | 1.08  | 392   | 0.120  | 44    | 1.04  | 0.071  | 0.44  | 4.1   | 0.19  | 2.3   | 4.4   | 0.19  | 5     | 3.9  |
| STD DS7             | Standard | 13    | 214   | 1.05  | 402   | 0.124  | 43    | 1.06  | 0.092  | 0.46  | 3.9   | 0.22  | 2.3   | 4.2   | 0.30  | 5     | 3.7  |
| STD DS7             | Standard | 13    | 205   | 1.02  | 377   | 0.125  | 35    | 1.04  | 0.092  | 0.44  | 3.7   | 0.20  | 2.4   | 4.0   | 0.20  | 5     | 3.8  |
| STD DS7             | Standard | 12    | 186   | 0.97  | 404   | 0.114  | 36    | 1.01  | 0.092  | 0.40  | 3.6   | 0.17  | 2.4   | 4.0   | 0.17  | 5     | 4.0  |
| STD DS7             | Standard | 12    | 193   | 1.00  | 361   | 0.113  | 41    | 0.95  | 0.087  | 0.40  | 3.9   | 0.21  | 2.2   | 4.2   | 0.20  | 5     | 3.3  |
| STD DS7             | Standard | 12    | 188   | 0.98  | 376   | 0.112  | 40    | 0.95  | 0.092  | 0.43  | 3.8   | 0.19  | 2.3   | 3.9   | 0.16  | 5     | 4.7  |
| STD DS7             | Standard | 13    | 207   | 0.97  | 370   | 0.126  | 21    | 0.99  | 0.073  | 0.42  | 3.4   | 0.20  | 2.6   | 4.2   | 0.09  | 5     | 3.6  |
| STD DS7             | Standard | 14    | 209   | 1.08  | 421   | 0.128  | 43    | 1.03  | 0.096  | 0.46  | 3.9   | 0.22  | 2.7   | 4.8   | 0.22  | 5     | 3.9  |
| STD DS7 Expected    |          | 12.7  | 163   | 1.05  | 370.3 | 0.124  | 38.6  | 0.959 | 0.073  | 0.44  | 3.8   | 0.2   | 2.5   | 4.19  | 0.21  | 4.6   | 3.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |





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Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

October 15, 2007

Report Date:

January 15, 2008

Page:

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## CERTIFICATE OF ANALYSIS

VAN07002985.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number 2007-11  
Number of Samples: 280

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

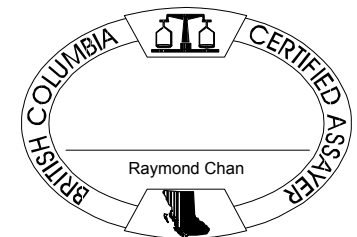
Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code  | Number of Samples | Code Description                           | Test Wgt (g) | Report Status |
|--------------|-------------------|--------------------------------------------|--------------|---------------|
| Split Reject | 280               | Reject sample split/packet                 |              |               |
| SS80         | 280               | Dry at 60C sieve 100g to -80 mesh          |              |               |
| Dry at 60C   | 280               | Dry at 60C                                 |              |               |
| 1DX          | 279               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.



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Project: 41

Report Date: January 15, 2008

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3800N 7150E   | Soil  | 0.7   | 22.8  | 14.8  | 79    | <0.1  | 18.5  | 9.7   | 1090  | 2.18  | 14.2  | 0.8   | 2.0   | 1.0   | 24    | 0.4   | 0.4   | 0.3   | 55    | 0.25  | 0.123 |
| L3800N 7162.5E | Soil  | 0.7   | 30.4  | 15.4  | 100   | 0.1   | 14.4  | 10.5  | 1344  | 2.37  | 18.5  | 1.0   | 1.7   | 0.6   | 39    | 1.0   | 0.5   | 0.3   | 59    | 0.52  | 0.154 |
| L3800N 7175E   | Soil  | 1.2   | 35.5  | 50.8  | 564   | 0.2   | 16.1  | 11.7  | 1532  | 2.68  | 22.0  | 1.4   | 3.4   | 2.6   | 39    | 6.4   | 0.6   | 0.3   | 63    | 0.45  | 0.123 |
| L3800N 7200E   | Soil  | 1.5   | 40.7  | 160.4 | 1088  | 0.4   | 59.0  | 13.5  | 837   | 2.82  | 82.3  | 0.9   | 3.8   | 4.1   | 36    | 4.5   | 0.8   | 0.6   | 69    | 0.41  | 0.090 |
| L3800N 7212.5E | Soil  | 2.4   | 48.6  | 78.3  | 584   | 0.4   | 78.6  | 16.3  | 659   | 3.47  | 148.9 | 0.7   | 209.3 | 3.6   | 48    | 4.9   | 1.6   | 0.7   | 107   | 0.72  | 0.076 |
| L3800N 7225E   | Soil  | 8.5   | 38.1  | 28.4  | 253   | 0.2   | 46.3  | 11.3  | 656   | 2.63  | 105.4 | 0.9   | 3.2   | 2.8   | 54    | 3.5   | 1.4   | 0.3   | 67    | 1.24  | 0.219 |
| L3800N 7237.5E | Soil  | 2.7   | 27.0  | 18.0  | 180   | <0.1  | 39.4  | 13.4  | 440   | 2.32  | 54.0  | 0.7   | 1.2   | 2.1   | 39    | 1.4   | 1.0   | 0.2   | 60    | 0.54  | 0.142 |
| L3800N 7250E   | Soil  | 0.9   | 17.9  | 10.9  | 153   | <0.1  | 18.4  | 6.6   | 656   | 1.56  | 22.6  | 0.6   | <0.5  | 2.0   | 34    | 0.7   | 0.4   | 0.2   | 35    | 0.32  | 0.253 |
| L3800N 7262.5E | Soil  | 1.5   | 22.6  | 15.2  | 150   | <0.1  | 26.7  | 10.1  | 666   | 2.19  | 27.7  | 0.6   | 2.1   | 2.6   | 39    | 0.8   | 0.6   | 0.3   | 50    | 0.55  | 0.185 |
| L3800N 7275E   | Soil  | 0.7   | 22.0  | 16.4  | 149   | <0.1  | 19.9  | 7.5   | 724   | 1.72  | 27.0  | 0.5   | 1.4   | 2.4   | 26    | 0.5   | 0.3   | 0.2   | 38    | 0.26  | 0.186 |
| L3800N 7287.5E | Soil  | 0.7   | 22.3  | 17.0  | 169   | <0.1  | 21.9  | 7.8   | 607   | 1.84  | 39.5  | 0.5   | 1.6   | 2.4   | 20    | 0.5   | 0.2   | 0.2   | 36    | 0.23  | 0.266 |
| L3800N 7300E   | Soil  | 0.9   | 16.8  | 9.5   | 136   | 0.1   | 15.5  | 6.4   | 551   | 1.58  | 18.9  | 0.4   | 0.6   | 1.6   | 18    | 0.4   | 0.2   | 0.2   | 31    | 0.18  | 0.301 |
| L3800N 7312.5E | Soil  | 0.9   | 18.7  | 10.7  | 169   | 0.1   | 18.5  | 7.2   | 474   | 1.73  | 16.4  | 0.4   | 1.0   | 2.1   | 19    | 0.6   | 0.3   | 0.2   | 35    | 0.25  | 0.156 |
| L3800N 7325E   | Soil  | 1.0   | 20.6  | 10.9  | 240   | 0.1   | 21.5  | 7.6   | 724   | 1.76  | 16.2  | 0.5   | 10.2  | 2.3   | 39    | 0.9   | 0.2   | 0.2   | 32    | 0.52  | 0.405 |
| L3800N 7337.5E | Soil  | 3.3   | 77.8  | 9.4   | 110   | 0.2   | 21.5  | 7.4   | 196   | 1.68  | 14.2  | 0.6   | 3.5   | 2.2   | 44    | 0.7   | 0.3   | 0.2   | 32    | 0.66  | 0.025 |
| L3800N 7350E   | Soil  | 1.2   | 33.5  | 8.6   | 125   | 0.2   | 17.6  | 7.9   | 292   | 1.67  | 11.1  | 0.4   | 4.9   | 2.0   | 43    | 0.9   | 0.2   | 0.2   | 32    | 0.57  | 0.020 |
| L3800N 7362.5E | Soil  | 0.7   | 13.8  | 10.8  | 201   | 0.1   | 14.2  | 6.2   | 688   | 1.42  | 12.4  | 0.3   | <0.5  | 1.4   | 28    | 1.1   | 0.2   | 0.2   | 27    | 0.28  | 0.221 |
| L3800N 7375E   | Soil  | 0.6   | 28.2  | 13.7  | 190   | 0.2   | 25.6  | 8.6   | 392   | 1.95  | 16.6  | 1.0   | 2.5   | 3.1   | 24    | 1.0   | 0.2   | 0.2   | 40    | 0.23  | 0.191 |
| L3800N 7387.5E | Soil  | 0.5   | 19.0  | 11.5  | 126   | 0.1   | 18.8  | 6.9   | 489   | 1.60  | 16.0  | 0.4   | 1.5   | 2.1   | 31    | 0.5   | 0.3   | 0.2   | 32    | 0.39  | 0.173 |
| L3800N 7400E   | Soil  | 0.6   | 20.6  | 10.0  | 143   | 0.1   | 22.7  | 7.8   | 521   | 1.83  | 14.5  | 0.5   | 0.5   | 2.3   | 31    | 0.6   | 0.3   | 0.2   | 46    | 0.39  | 0.209 |
| L3800N 7412.5E | Soil  | 0.8   | 29.4  | 16.4  | 343   | 0.3   | 31.9  | 12.9  | 936   | 2.95  | 20.1  | 0.8   | 0.7   | 2.3   | 41    | 2.4   | 0.4   | 0.4   | 89    | 0.54  | 0.185 |
| L3800N 7425E   | Soil  | 1.0   | 29.4  | 15.2  | 454   | 0.4   | 23.9  | 7.5   | 763   | 2.01  | 10.9  | 1.0   | 4.5   | 1.1   | 101   | 2.8   | 0.4   | 0.7   | 78    | 1.46  | 0.085 |
| L3800N 7437.5E | Soil  | 0.5   | 12.8  | 11.1  | 139   | <0.1  | 16.2  | 6.2   | 907   | 1.69  | 8.7   | 1.2   | 0.6   | 1.1   | 89    | 2.3   | 0.3   | 0.2   | 55    | 2.73  | 0.121 |
| L3800N 7450E   | Soil  | 0.6   | 16.7  | 9.9   | 93    | <0.1  | 19.5  | 8.2   | 612   | 2.01  | 11.7  | 0.4   | <0.5  | 2.1   | 21    | 0.3   | 0.2   | 0.1   | 49    | 0.23  | 0.056 |
| L3800N 7462.5E | Soil  | 0.8   | 17.3  | 9.0   | 125   | 0.1   | 31.7  | 7.6   | 451   | 1.87  | 9.1   | 0.8   | <0.5  | 2.1   | 75    | 1.2   | 0.3   | 0.2   | 101   | 1.34  | 0.094 |
| L3800N 7475E   | Soil  | 0.6   | 18.9  | 9.0   | 102   | <0.1  | 24.1  | 6.9   | 248   | 1.66  | 14.9  | 0.4   | 1.5   | 2.0   | 23    | 0.6   | 0.2   | 0.2   | 46    | 0.30  | 0.115 |
| L3800N 7487.5E | Soil  | 0.4   | 22.7  | 8.0   | 110   | <0.1  | 22.3  | 7.5   | 454   | 1.79  | 14.0  | 0.4   | 4.2   | 2.2   | 21    | 0.3   | 0.2   | 0.1   | 40    | 0.26  | 0.107 |
| L3800N 7500E   | Soil  | 0.2   | 14.4  | 6.2   | 121   | <0.1  | 18.2  | 5.8   | 365   | 1.50  | 10.9  | 0.3   | 4.3   | 1.8   | 14    | 0.5   | 0.2   | 0.1   | 33    | 0.16  | 0.156 |
| L3800N 7512.5E | Soil  | 0.3   | 12.9  | 5.8   | 141   | <0.1  | 15.4  | 5.4   | 498   | 1.32  | 8.7   | 0.2   | 0.5   | 1.2   | 25    | 0.6   | 0.1   | 0.1   | 29    | 0.26  | 0.128 |
| L3800N 7537.5E | Soil  | 0.6   | 62.4  | 10.1  | 210   | 0.1   | 56.5  | 8.8   | 474   | 1.88  | 14.1  | 0.7   | 3.1   | 2.4   | 29    | 1.3   | 0.3   | 0.2   | 40    | 0.38  | 0.054 |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3800N 7150E   | Soil  | 11    | 25    | 0.49  | 124   | 0.079 | 2     | 2.32  | 0.016 | 0.12  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 7     | <0.5  |
| L3800N 7162.5E | Soil  | 10    | 18    | 0.53  | 130   | 0.068 | 4     | 2.70  | 0.019 | 0.12  | <0.1  | 0.03  | 2.2   | <0.1  | 0.07  | 9     | <0.5  |
| L3800N 7175E   | Soil  | 13    | 21    | 0.61  | 140   | 0.137 | 2     | 3.23  | 0.026 | 0.10  | 0.2   | 0.04  | 4.9   | 0.2   | <0.05 | 10    | <0.5  |
| L3800N 7200E   | Soil  | 13    | 41    | 0.73  | 125   | 0.133 | 8     | 2.88  | 0.036 | 0.12  | 0.3   | 0.03  | 5.9   | 0.2   | <0.05 | 8     | <0.5  |
| L3800N 7212.5E | Soil  | 16    | 48    | 0.91  | 85    | 0.104 | 6     | 2.31  | 0.048 | 0.12  | 0.2   | 0.02  | 6.8   | 0.2   | <0.05 | 7     | 0.6   |
| L3800N 7225E   | Soil  | 13    | 36    | 0.54  | 123   | 0.061 | 6     | 1.82  | 0.028 | 0.13  | 0.1   | 0.02  | 5.9   | 0.3   | <0.05 | 5     | <0.5  |
| L3800N 7237.5E | Soil  | 7     | 56    | 0.80  | 106   | 0.079 | 3     | 1.88  | 0.051 | 0.10  | 0.2   | 0.01  | 4.7   | 0.2   | <0.05 | 6     | <0.5  |
| L3800N 7250E   | Soil  | 7     | 19    | 0.31  | 156   | 0.079 | 3     | 1.60  | 0.037 | 0.12  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7262.5E | Soil  | 9     | 30    | 0.56  | 181   | 0.089 | 4     | 1.98  | 0.032 | 0.16  | 0.1   | 0.02  | 3.7   | 0.2   | <0.05 | 6     | <0.5  |
| L3800N 7275E   | Soil  | 7     | 22    | 0.32  | 199   | 0.083 | 2     | 1.63  | 0.034 | 0.10  | 0.1   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7287.5E | Soil  | 7     | 22    | 0.33  | 183   | 0.092 | 2     | 2.20  | 0.027 | 0.11  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7300E   | Soil  | 5     | 18    | 0.27  | 184   | 0.080 | 2     | 1.67  | 0.027 | 0.08  | 0.1   | 0.01  | 1.8   | 0.1   | <0.05 | 4     | <0.5  |
| L3800N 7312.5E | Soil  | 6     | 22    | 0.30  | 168   | 0.085 | 2     | 1.84  | 0.028 | 0.10  | 0.1   | 0.03  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7325E   | Soil  | 8     | 22    | 0.30  | 391   | 0.084 | 3     | 2.03  | 0.032 | 0.12  | 0.1   | 0.01  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7337.5E | Soil  | 20    | 23    | 0.30  | 150   | 0.085 | 2     | 1.86  | 0.051 | 0.10  | 0.1   | 0.02  | 3.2   | 0.2   | <0.05 | 4     | <0.5  |
| L3800N 7350E   | Soil  | 11    | 22    | 0.28  | 121   | 0.076 | 2     | 1.55  | 0.035 | 0.08  | <0.1  | 0.02  | 2.4   | 0.1   | <0.05 | 4     | <0.5  |
| L3800N 7362.5E | Soil  | 5     | 15    | 0.20  | 227   | 0.075 | 2     | 1.57  | 0.026 | 0.09  | <0.1  | 0.02  | 1.4   | <0.1  | <0.05 | 4     | <0.5  |
| L3800N 7375E   | Soil  | 11    | 23    | 0.33  | 176   | 0.106 | 2     | 2.57  | 0.031 | 0.12  | 0.2   | 0.03  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3800N 7387.5E | Soil  | 7     | 20    | 0.29  | 250   | 0.089 | 3     | 1.78  | 0.028 | 0.11  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| L3800N 7400E   | Soil  | 8     | 24    | 0.50  | 219   | 0.091 | 2     | 2.07  | 0.031 | 0.13  | 0.1   | 0.01  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7412.5E | Soil  | 11    | 38    | 1.32  | 172   | 0.084 | 2     | 2.35  | 0.023 | 0.09  | 0.2   | 0.03  | 4.9   | 0.1   | <0.05 | 7     | 0.9   |
| L3800N 7425E   | Soil  | 7     | 32    | 1.08  | 117   | 0.072 | 2     | 1.91  | 0.071 | 0.06  | 0.3   | 0.05  | 4.6   | 0.1   | <0.05 | 6     | 0.7   |
| L3800N 7437.5E | Soil  | 8     | 26    | 1.65  | 127   | 0.070 | 2     | 1.75  | 0.025 | 0.07  | <0.1  | 0.04  | 2.8   | 0.1   | <0.05 | 5     | 0.5   |
| L3800N 7450E   | Soil  | 8     | 29    | 0.44  | 173   | 0.091 | 1     | 1.82  | 0.019 | 0.13  | 0.1   | 0.01  | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7462.5E | Soil  | 11    | 45    | 0.99  | 118   | 0.079 | 2     | 1.79  | 0.030 | 0.09  | 0.1   | 0.03  | 3.3   | 0.2   | <0.05 | 5     | 0.9   |
| L3800N 7475E   | Soil  | 7     | 24    | 0.75  | 144   | 0.093 | 2     | 2.35  | 0.031 | 0.10  | 0.1   | 0.01  | 2.3   | 0.1   | <0.05 | 6     | <0.5  |
| L3800N 7487.5E | Soil  | 7     | 26    | 0.46  | 190   | 0.088 | 2     | 1.71  | 0.026 | 0.15  | 0.1   | 0.01  | 2.1   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7500E   | Soil  | 5     | 20    | 0.25  | 189   | 0.064 | 1     | 1.20  | 0.020 | 0.09  | 0.1   | 0.01  | 1.6   | <0.1  | <0.05 | 4     | <0.5  |
| L3800N 7512.5E | Soil  | 4     | 16    | 0.20  | 178   | 0.065 | 1     | 1.17  | 0.026 | 0.08  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 3     | <0.5  |
| L3800N 7537.5E | Soil  | 9     | 29    | 0.42  | 69    | 0.119 | 2     | 2.20  | 0.045 | 0.10  | 0.1   | 0.02  | 2.8   | 0.2   | <0.05 | 5     | <0.5  |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3800N 7550E   | Soil  | 0.3   | 11.5  | 6.6   | 138   | <0.1  | 40.7  | 10.9  | 570   | 1.98  | 11.4  | 0.1   | 0.7   | 1.0   | 29    | 0.4   | 0.2   | 0.2   | 41    | 0.30  | 0.090 |
| L3800N 7562.5E | Soil  | 0.3   | 17.6  | 8.8   | 119   | <0.1  | 24.8  | 9.2   | 519   | 1.89  | 11.4  | 0.3   | 1.6   | 1.9   | 25    | 0.4   | 0.3   | 0.2   | 42    | 0.27  | 0.081 |
| L3800N 7575E   | Soil  | 0.4   | 35.9  | 9.9   | 121   | <0.1  | 32.7  | 10.2  | 440   | 2.16  | 16.3  | 0.4   | 2.3   | 2.7   | 34    | 0.9   | 0.3   | 0.1   | 44    | 0.35  | 0.067 |
| L3800N 7587.5E | Soil  | 0.4   | 24.7  | 9.6   | 159   | 0.2   | 26.8  | 9.0   | 427   | 2.03  | 16.0  | 0.5   | 1.0   | 2.8   | 31    | 0.8   | 0.2   | 0.2   | 42    | 0.28  | 0.121 |
| L3800N 7600E   | Soil  | 0.5   | 18.4  | 9.1   | 173   | <0.1  | 23.4  | 7.6   | 369   | 1.68  | 13.0  | 0.2   | 1.1   | 1.5   | 21    | 0.6   | 0.2   | 0.1   | 35    | 0.20  | 0.115 |
| L3800N 7612.5E | Soil  | 0.5   | 22.1  | 9.2   | 141   | <0.1  | 21.7  | 7.6   | 552   | 1.73  | 17.8  | 0.4   | 2.0   | 2.4   | 24    | 0.6   | 0.2   | 0.2   | 37    | 0.26  | 0.158 |
| L3800N 7625E   | Soil  | 0.4   | 10.2  | 12.5  | 61    | <0.1  | 7.6   | 3.0   | 1041  | 0.97  | 8.0   | 0.3   | 1.9   | 0.9   | 23    | 0.4   | 0.4   | 0.2   | 22    | 0.49  | 0.107 |
| L3800N 7637.5E | Soil  | 0.8   | 24.6  | 7.2   | 148   | 0.1   | 13.8  | 3.9   | 835   | 1.34  | 9.8   | 0.6   | 1.1   | 1.1   | 88    | 1.4   | 0.4   | 0.1   | 31    | 3.21  | 0.326 |
| L3800N 7650E   | Soil  | 0.9   | 41.7  | 15.2  | 164   | 0.3   | 31.0  | 13.1  | 843   | 2.48  | 14.4  | 0.4   | 65.0  | 3.4   | 32    | 2.1   | 0.4   | 0.2   | 54    | 0.77  | 0.104 |
| L3750N 7150E   | Soil  | 1.0   | 69.6  | 26.4  | 416   | 0.3   | 61.3  | 19.5  | 1457  | 2.80  | 31.9  | 0.5   | 2.3   | 2.4   | 33    | 2.0   | 0.7   | 0.4   | 57    | 0.41  | 0.067 |
| L3750N 7162.5E | Soil  | 1.2   | 50.9  | 25.9  | 678   | 0.2   | 34.3  | 10.9  | 1061  | 1.81  | 26.3  | 0.4   | 4.3   | 1.5   | 15    | 3.2   | 0.4   | 0.3   | 40    | 0.19  | 0.035 |
| L3750N 7175E   | Soil  | 1.7   | 61.9  | 25.8  | 833   | 0.1   | 57.4  | 15.5  | 841   | 2.94  | 63.7  | 0.7   | 5.2   | 3.3   | 30    | 3.3   | 0.7   | 0.3   | 67    | 0.32  | 0.057 |
| L3750N 7187.5E | Soil  | 2.2   | 50.0  | 22.4  | 527   | 0.2   | 66.3  | 18.1  | 900   | 3.13  | 70.9  | 1.0   | 63.6  | 3.0   | 46    | 3.6   | 1.9   | 0.3   | 82    | 0.42  | 0.078 |
| L3750N 7200E   | Soil  | 3.3   | 43.3  | 21.5  | 313   | 0.3   | 64.8  | 22.6  | 1088  | 3.85  | 66.2  | 0.9   | 7.2   | 2.5   | 56    | 3.3   | 1.5   | 0.4   | 114   | 0.78  | 0.081 |
| L3750N 7212.5E | Soil  | 2.1   | 28.7  | 17.1  | 157   | 0.2   | 24.4  | 10.5  | 1397  | 1.96  | 60.3  | 0.6   | 3.5   | 0.6   | 115   | 2.5   | 1.3   | 0.3   | 49    | 4.72  | 0.155 |
| L3750N 7225E   | Soil  | 3.0   | 51.1  | 41.0  | 373   | 0.2   | 52.0  | 18.7  | 1126  | 3.76  | 108.0 | 1.0   | 2.6   | 2.7   | 44    | 2.7   | 1.4   | 0.4   | 98    | 0.55  | 0.115 |
| L3750N 7237.5E | Soil  | 1.0   | 18.9  | 10.1  | 173   | <0.1  | 18.0  | 5.5   | 544   | 1.16  | 32.5  | 0.4   | 2.3   | 1.6   | 23    | 0.7   | 0.3   | 0.2   | 29    | 0.27  | 0.125 |
| L3750N 7250E   | Soil  | 0.6   | 22.2  | 8.4   | 148   | 0.1   | 28.6  | 7.4   | 264   | 1.70  | 35.9  | 0.2   | 48.3  | 1.7   | 15    | 0.3   | 0.2   | 0.1   | 36    | 0.18  | 0.063 |
| L3750N 7232.5E | Soil  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  |
| L3750N 7275E   | Soil  | 2.2   | 18.9  | 9.6   | 92    | 0.2   | 11.8  | 4.6   | 1210  | 1.43  | 13.8  | 0.5   | 3.5   | 0.6   | 45    | 1.1   | 0.3   | 0.2   | 18    | 1.63  | 0.108 |
| L3750N 7287.5E | Soil  | 15.1  | 308.0 | 28.7  | 1730  | 0.9   | 17.2  | 10.4  | 1642  | 2.29  | 19.6  | 0.8   | 18.5  | 1.2   | 27    | 10.2  | 0.4   | 1.3   | 28    | 0.52  | 0.134 |
| L3750N 7300E   | Soil  | 4.4   | 57.2  | 10.6  | 671   | 0.2   | 17.0  | 7.4   | 657   | 1.74  | 11.7  | 0.4   | 1.6   | 1.8   | 15    | 1.9   | 0.2   | 0.4   | 35    | 0.23  | 0.099 |
| L3750N 7312.5E | Soil  | 2.3   | 23.3  | 10.3  | 281   | <0.1  | 7.2   | 3.9   | 650   | 0.79  | 6.4   | 0.2   | 1.6   | 0.8   | 15    | 1.1   | 0.1   | 0.4   | 22    | 0.23  | 0.086 |
| L3750N 7325E   | Soil  | 1.5   | 27.6  | 8.2   | 297   | 0.1   | 14.6  | 5.7   | 651   | 1.13  | 11.6  | 0.3   | 1.1   | 1.7   | 32    | 1.0   | 0.2   | 0.2   | 26    | 0.31  | 0.245 |
| L3750N 7337.5E | Soil  | 2.1   | 18.8  | 9.9   | 143   | 0.1   | 10.8  | 5.1   | 283   | 1.01  | 20.4  | 0.2   | 2.0   | 1.1   | 21    | 0.9   | 0.3   | 0.2   | 25    | 0.32  | 0.058 |
| L3750N 7350E   | Soil  | 0.9   | 47.6  | 8.1   | 401   | 0.2   | 19.3  | 6.2   | 329   | 1.17  | 14.3  | 0.3   | 3.0   | 1.9   | 44    | 3.2   | 0.3   | 0.1   | 28    | 0.66  | 0.026 |
| L3750N 7362E   | Soil  | 0.8   | 24.8  | 11.3  | 272   | 0.2   | 17.3  | 7.0   | 421   | 1.31  | 15.3  | 0.6   | 1.8   | 2.3   | 24    | 1.2   | 0.2   | 0.2   | 36    | 0.41  | 0.058 |
| L3750N 7375E   | Soil  | 0.7   | 16.3  | 14.0  | 214   | 0.1   | 17.1  | 6.3   | 495   | 1.30  | 15.7  | 0.5   | 2.0   | 2.2   | 17    | 0.7   | 0.1   | 0.2   | 30    | 0.18  | 0.214 |
| L3750N 7387E   | Soil  | 0.7   | 16.0  | 8.5   | 123   | <0.1  | 16.8  | 6.0   | 431   | 1.37  | 17.4  | 0.4   | 2.4   | 2.2   | 18    | 0.4   | 0.1   | 0.2   | 31    | 0.20  | 0.132 |
| L3750N 7400E   | Soil  | 0.5   | 22.7  | 8.6   | 157   | 0.1   | 19.4  | 6.5   | 540   | 1.53  | 15.2  | 0.5   | 1.5   | 2.0   | 29    | 0.8   | 0.2   | 0.1   | 40    | 0.33  | 0.161 |

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Project: 41

Report Date: January 15, 2008

Page: 3 of 11 Part 2

# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3800N 7550E   | Soil  | 3     | 43    | 0.76  | 112   | 0.156 | <1    | 1.61  | 0.061 | 0.09  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 6     | <0.5  |
| L3800N 7562.5E | Soil  | 5     | 30    | 0.49  | 112   | 0.108 | 2     | 1.77  | 0.036 | 0.11  | <0.1  | 0.02  | 2.1   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7575E   | Soil  | 12    | 35    | 0.56  | 132   | 0.131 | 2     | 2.47  | 0.050 | 0.14  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3800N 7587.5E | Soil  | 9     | 30    | 0.42  | 142   | 0.114 | 2     | 2.27  | 0.033 | 0.13  | 0.1   | 0.02  | 2.5   | 0.2   | <0.05 | 6     | <0.5  |
| L3800N 7600E   | Soil  | 5     | 24    | 0.35  | 160   | 0.094 | 2     | 1.87  | 0.031 | 0.12  | <0.1  | 0.02  | 1.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7612.5E | Soil  | 8     | 23    | 0.36  | 183   | 0.095 | 2     | 2.00  | 0.033 | 0.09  | 0.1   | 0.01  | 2.1   | 0.1   | <0.05 | 5     | <0.5  |
| L3800N 7625E   | Soil  | 4     | 12    | 0.28  | 105   | 0.048 | 2     | 0.94  | 0.023 | 0.06  | <0.1  | 0.02  | 1.4   | <0.1  | <0.05 | 2     | <0.5  |
| L3800N 7637.5E | Soil  | 6     | 20    | 0.49  | 139   | 0.049 | 6     | 1.12  | 0.022 | 0.07  | 0.1   | 0.03  | 2.0   | 0.1   | <0.05 | 3     | 0.5   |
| L3800N 7650E   | Soil  | 13    | 36    | 0.63  | 129   | 0.116 | 3     | 2.54  | 0.032 | 0.14  | 0.2   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3750N 7150E   | Soil  | 8     | 43    | 0.74  | 155   | 0.133 | 3     | 2.70  | 0.031 | 0.10  | 0.4   | 0.02  | 5.0   | 0.2   | <0.05 | 7     | <0.5  |
| L3750N 7162.5E | Soil  | 6     | 23    | 0.38  | 83    | 0.094 | 1     | 1.67  | 0.025 | 0.07  | 0.1   | 0.03  | 2.3   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7175E   | Soil  | 11    | 40    | 0.62  | 114   | 0.119 | 1     | 2.35  | 0.033 | 0.09  | 0.3   | 0.02  | 4.0   | 0.1   | <0.05 | 7     | <0.5  |
| L3750N 7187.5E | Soil  | 13    | 38    | 0.65  | 96    | 0.106 | 1     | 2.56  | 0.056 | 0.08  | 0.3   | 0.03  | 4.5   | 0.2   | <0.05 | 7     | 0.6   |
| L3750N 7200E   | Soil  | 11    | 55    | 1.35  | 117   | 0.145 | 2     | 2.59  | 0.055 | 0.12  | 0.3   | 0.02  | 5.9   | 0.2   | <0.05 | 8     | 0.5   |
| L3750N 7212.5E | Soil  | 7     | 23    | 0.53  | 102   | 0.051 | 4     | 1.25  | 0.029 | 0.12  | 0.2   | 0.03  | 2.7   | 0.2   | <0.05 | 4     | 0.5   |
| L3750N 7225E   | Soil  | 15    | 45    | 1.01  | 133   | 0.093 | 2     | 2.43  | 0.034 | 0.13  | 0.6   | 0.03  | 7.0   | 0.2   | <0.05 | 7     | 0.7   |
| L3750N 7237.5E | Soil  | 5     | 15    | 0.27  | 118   | 0.067 | 4     | 1.55  | 0.022 | 0.10  | 0.1   | 0.01  | 2.2   | 0.1   | <0.05 | 4     | <0.5  |
| L3750N 7250E   | Soil  | 5     | 23    | 0.33  | 202   | 0.080 | 3     | 1.62  | 0.017 | 0.13  | 0.2   | 0.01  | 2.0   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7232.5E | Soil  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  | I.S.  |
| L3750N 7275E   | Soil  | 4     | 8     | 0.27  | 70    | 0.032 | 3     | 0.70  | 0.017 | 0.04  | <0.1  | 0.02  | 1.2   | <0.1  | 0.10  | 2     | 0.6   |
| L3750N 7287.5E | Soil  | 6     | 13    | 0.36  | 97    | 0.053 | 3     | 1.32  | 0.022 | 0.05  | 0.2   | 0.04  | 2.3   | <0.1  | 0.06  | 3     | 0.8   |
| L3750N 7300E   | Soil  | 6     | 22    | 0.35  | 125   | 0.075 | 2     | 1.30  | 0.017 | 0.12  | 0.2   | <0.01 | 2.3   | 0.1   | <0.05 | 4     | <0.5  |
| L3750N 7312.5E | Soil  | 3     | 11    | 0.17  | 148   | 0.047 | 1     | 0.70  | 0.019 | 0.08  | 0.2   | 0.02  | 1.2   | <0.1  | <0.05 | 2     | <0.5  |
| L3750N 7325E   | Soil  | 6     | 17    | 0.26  | 263   | 0.069 | 4     | 1.40  | 0.021 | 0.14  | <0.1  | 0.01  | 2.2   | <0.1  | <0.05 | 4     | <0.5  |
| L3750N 7337.5E | Soil  | 5     | 14    | 0.19  | 117   | 0.059 | 2     | 1.22  | 0.027 | 0.05  | <0.1  | 0.01  | 1.5   | <0.1  | <0.05 | 4     | <0.5  |
| L3750N 7350E   | Soil  | 14    | 19    | 0.23  | 91    | 0.073 | 2     | 1.50  | 0.026 | 0.05  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 3     | 0.8   |
| L3750N 7362E   | Soil  | 10    | 21    | 0.28  | 135   | 0.087 | 4     | 1.93  | 0.022 | 0.10  | 0.1   | 0.03  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7375E   | Soil  | 6     | 17    | 0.23  | 169   | 0.085 | 4     | 2.04  | 0.023 | 0.09  | 0.2   | 0.01  | 1.9   | <0.1  | <0.05 | 6     | <0.5  |
| L3750N 7387E   | Soil  | 6     | 18    | 0.26  | 181   | 0.094 | 4     | 2.32  | 0.023 | 0.09  | 0.1   | 0.02  | 2.0   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7400E   | Soil  | 7     | 22    | 0.45  | 196   | 0.087 | 3     | 1.92  | 0.023 | 0.13  | 0.1   | <0.01 | 2.6   | 0.1   | <0.05 | 5     | <0.5  |



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Report Date: January 15, 2008

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**CERTIFICATE OF ANALYSIS**

**VAN07002985.1**

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L3750N 7412.5E          | Soil             | 0.5              | 22.9             | 12.1           | 148              | 0.5              | 23.8             | 7.6            | 636             | 1.78             | 11.0            | 0.7              | 1.1              | 1.7            | 64               | 1.7              | 0.2              | 0.2           | 56              | 1.08            | 0.099 |
| L3750N 7425E            | Soil             | 0.7              | 25.8             | 9.7            | 149              | 0.5              | 37.9             | 11.0           | 740             | 2.47             | 24.2            | 1.1              | 2.1              | 2.1            | 80               | 3.0              | 0.2              | 0.1           | 80              | 2.55            | 0.161 |
| L3750N 7437.5E          | Soil             | 0.9              | 14.2             | 7.2            | 82               | 0.3              | 17.1             | 4.1            | 451             | 1.01             | 15.9            | 0.8              | 2.0              | 1.1            | 91               | 1.0              | 0.3              | 0.1           | 61              | 1.78            | 0.068 |
| L3750N 7450E            | Soil             | 0.6              | 17.1             | 9.4            | 90               | <0.1             | 17.0             | 6.9            | 639             | 1.88             | 13.6            | 0.7              | 1.8              | 2.0            | 23               | 0.4              | 0.2              | 0.1           | 51              | 0.30            | 0.067 |
| L3750N 7462.5E          | Soil             | 1.1              | 16.8             | 7.4            | 132              | 0.2              | 32.6             | 5.1            | 741             | 1.24             | 17.6            | 1.1              | 1.4              | 1.1            | 151              | 3.8              | 0.3              | 0.1           | 106             | 4.42            | 0.143 |
| L3750N 7475E            | Soil             | 0.7              | 12.6             | 7.6            | 66               | <0.1             | 11.2             | 3.7            | 877             | 0.93             | 9.9             | 0.4              | 2.8              | 0.9            | 32               | 1.3              | 0.2              | 0.1           | 36              | 0.71            | 0.072 |
| L3750N 7487.5E          | Soil             | 0.5              | 11.7             | 9.2            | 97               | <0.1             | 11.7             | 4.8            | 460             | 1.06             | 15.8            | 0.2              | 1.1              | 1.0            | 11               | 0.3              | 0.2              | 0.2           | 33              | 0.14            | 0.070 |
| L3750N 7500E            | Soil             | 0.7              | 14.9             | 11.1           | 125              | <0.1             | 18.2             | 7.3            | 445             | 1.22             | 15.0            | 0.3              | 1.6              | 1.5            | 16               | 0.4              | 0.2              | 0.1           | 31              | 0.18            | 0.059 |
| L3750N 7512.5E          | Soil             | 0.3              | 15.6             | 9.5            | 149              | 0.1              | 14.2             | 5.6            | 650             | 1.07             | 10.4            | 0.3              | 1.3              | 1.4            | 23               | 0.5              | 0.2              | 0.1           | 27              | 0.24            | 0.177 |
| L3750N 7525E            | Soil             | 0.4              | 16.2             | 17.3           | 128              | <0.1             | 9.5              | 4.2            | 2126            | 0.72             | 11.6            | 0.2              | 1.9              | 0.4            | 23               | 1.1              | 0.3              | 0.2           | 23              | 0.33            | 0.105 |
| L3750N 7537.5E          | Soil             | 0.2              | 12.9             | 8.2            | 98               | <0.1             | 12.7             | 5.4            | 933             | 0.98             | 11.9            | 0.4              | 1.0              | 1.0            | 61               | 0.8              | 0.2              | 0.1           | 31              | 0.74            | 0.105 |
| L3750N 7550E            | Soil             | 0.4              | 74.2             | 14.0           | 120              | <0.1             | 45.6             | 11.5           | 482             | 2.39             | 27.0            | 0.4              | 4.6              | 2.7            | 23               | 0.4              | 0.3              | 0.3           | 55              | 0.25            | 0.085 |
| L3750N 7562.5E          | Soil             | 0.3              | 28.2             | 12.2           | 145              | <0.1             | 24.3             | 8.0            | 486             | 1.64             | 20.3            | 0.3              | 1.6              | 2.1            | 24               | 0.8              | 0.2              | 0.2           | 39              | 0.24            | 0.113 |
| L3750N 7575E            | Soil             | 0.4              | 17.3             | 12.4           | 134              | <0.1             | 25.5             | 8.6            | 629             | 1.74             | 17.5            | 0.3              | 3.4              | 1.8            | 19               | 0.6              | 0.3              | 0.3           | 41              | 0.24            | 0.151 |
| L3750N 7587.5E          | Soil             | 0.4              | 30.7             | 13.0           | 117              | 0.1              | 53.4             | 13.9           | 698             | 2.93             | 22.1            | 0.5              | 1.7              | 2.5            | 24               | 0.3              | 0.4              | 0.2           | 65              | 0.30            | 0.113 |
| L3750N 7600E            | Soil             | 0.4              | 22.9             | 10.4           | 95               | <0.1             | 42.8             | 11.4           | 712             | 2.13             | 22.7            | 0.3              | 2.3              | 1.7            | 34               | 0.5              | 0.3              | 0.2           | 49              | 0.37            | 0.129 |
| L3750N 7612.5E          | Soil             | 0.5              | 20.6             | 9.8            | 99               | <0.1             | 22.3             | 8.0            | 458             | 1.85             | 20.1            | 0.5              | 1.6              | 2.2            | 18               | 0.3              | 0.2              | 0.2           | 38              | 0.19            | 0.167 |
| L3750N 7625E            | Soil             | 0.3              | 16.2             | 9.3            | 96               | <0.1             | 16.2             | 5.6            | 309             | 1.21             | 12.5            | 0.3              | 2.2              | 2.1            | 23               | 0.2              | 0.2              | 0.2           | 32              | 0.28            | 0.154 |
| L3750N 7637.5E          | Soil             | 0.5              | 26.2             | 9.2            | 85               | 0.1              | 17.9             | 7.0            | 278             | 1.67             | 15.5            | 0.4              | 2.3              | 2.5            | 15               | 0.3              | 0.3              | 0.2           | 40              | 0.23            | 0.066 |
| L3700N 7150E            | Soil             | 1.1              | 69.1             | 41.2           | 465              | 0.3              | 33.3             | 14.1           | 1826            | 2.52             | 35.0            | 0.9              | 1.8              | 2.5            | 36               | 4.2              | 0.5              | 0.3           | 50              | 0.61            | 0.141 |
| L3700N 7162.5E          | Soil             | 1.5              | 82.8             | 77.6           | 849              | 0.4              | 44.1             | 19.0           | 1838            | 2.65             | 33.4            | 0.7              | 4.5              | 1.7            | 26               | 6.7              | 0.7              | 0.4           | 54              | 0.45            | 0.098 |
| L3700N 7175E            | Soil             | 1.9              | 69.9             | 97.9           | 924              | 0.4              | 67.4             | 18.7           | 848             | 2.92             | 66.6            | 0.6              | 47.2             | 2.8            | 46               | 8.5              | 0.9              | 0.3           | 81              | 0.65            | 0.118 |
| L3700N 7187E            | Soil             | 1.8              | 48.5             | 20.0           | 174              | 0.1              | 57.1             | 16.1           | 688             | 2.46             | 38.0            | 0.6              | 1.5              | 1.4            | 55               | 2.8              | 0.8              | 0.4           | 62              | 0.68            | 0.105 |
| L3700N 7200E            | Soil             | 2.8              | 43.0             | 18.6           | 200              | 0.2              | 57.3             | 19.2           | 1139            | 2.83             | 42.9            | 1.1              | 1.3              | 1.7            | 53               | 2.9              | 1.3              | 0.4           | 82              | 0.67            | 0.136 |
| L3700N 7212.5E          | Soil             | 2.5              | 36.5             | 18.5           | 159              | 0.2              | 32.1             | 13.6           | 868             | 2.30             | 49.0            | 0.9              | 2.8              | 1.8            | 33               | 1.6              | 0.8              | 0.3           | 61              | 0.46            | 0.078 |
| L3700N 7225E            | Soil             | 5.2              | 76.7             | 52.1           | 361              | 7.2              | 17.9             | 9.8            | 2609            | 2.47             | 124.3           | 0.7              | 20.9             | 0.8            | 43               | 3.0              | 7.1              | 0.6           | 60              | 0.92            | 0.129 |
| L3700N 7237.5E          | Soil             | 4.4              | 23.4             | 17.3           | 117              | 0.2              | 14.6             | 5.5            | 1457            | 1.92             | 21.4            | 0.8              | 3.4              | 0.3            | 90               | 1.4              | 0.9              | 0.3           | 26              | 3.09            | 0.152 |
| L3700N 7250E            | Soil             | 3.4              | 33.5             | 31.5           | 1210             | 0.3              | 18.5             | 11.5           | 1507            | 2.60             | 38.8            | 0.8              | 1.4              | 1.9            | 31               | 6.4              | 0.9              | 1.7           | 45              | 0.50            | 0.079 |
| L3700N 7262.5E          | Soil             | 8.1              | 60.5             | 35.4           | 1785             | 0.5              | 20.6             | 13.7           | 1130            | 3.10             | 30.4            | 0.9              | 2.3              | 2.6            | 30               | 5.5              | 0.7              | 1.9           | 55              | 0.50            | 0.070 |
| L3700N 7275E            | Soil             | 3.9              | 33.5             | 12.8           | 787              | 0.2              | 20.5             | 8.2            | 476             | 2.00             | 16.2            | 0.5              | 1.9              | 2.6            | 22               | 1.7              | 0.3              | 0.7           | 40              | 0.25            | 0.080 |

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Project: 41

Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3750N 7412.5E | Soil  | 9     | 29    | 0.64  | 127   | 0.071 | 4     | 1.61  | 0.018 | 0.06  | 0.1   | 0.03  | 3.0   | 0.1   | <0.05 | 4     | 1.3   |
| L3750N 7425E   | Soil  | 10    | 57    | 2.23  | 138   | 0.129 | 20    | 2.41  | 0.023 | 0.05  | 0.2   | 0.03  | 4.9   | 0.2   | <0.05 | 7     | 1.8   |
| L3750N 7437.5E | Soil  | 8     | 29    | 0.61  | 80    | 0.054 | 2     | 1.36  | 0.025 | 0.05  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 4     | 1.0   |
| L3750N 7450E   | Soil  | 9     | 25    | 0.52  | 144   | 0.088 | 2     | 2.13  | 0.020 | 0.12  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | 0.6   |
| L3750N 7462.5E | Soil  | 9     | 43    | 1.41  | 90    | 0.046 | 3     | 1.44  | 0.018 | 0.05  | 0.2   | 0.01  | 3.3   | <0.1  | 0.06  | 5     | 1.5   |
| L3750N 7475E   | Soil  | 5     | 15    | 0.72  | 116   | 0.048 | 3     | 1.28  | 0.020 | 0.04  | <0.1  | 0.02  | 1.6   | <0.1  | <0.05 | 3     | 0.7   |
| L3750N 7487.5E | Soil  | 3     | 15    | 0.32  | 113   | 0.062 | 2     | 1.29  | 0.016 | 0.05  | 0.1   | <0.01 | 1.2   | <0.1  | <0.05 | 4     | <0.5  |
| L3750N 7500E   | Soil  | 4     | 21    | 0.27  | 108   | 0.081 | 4     | 1.58  | 0.019 | 0.10  | 0.2   | 0.02  | 1.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7512.5E | Soil  | 4     | 18    | 0.26  | 192   | 0.069 | 2     | 1.33  | 0.019 | 0.09  | 0.1   | 0.02  | 1.7   | <0.1  | <0.05 | 4     | <0.5  |
| L3750N 7525E   | Soil  | 2     | 11    | 0.15  | 182   | 0.042 | 2     | 0.66  | 0.020 | 0.04  | <0.1  | 0.03  | 0.9   | 0.1   | <0.05 | 3     | <0.5  |
| L3750N 7537.5E | Soil  | 5     | 17    | 0.27  | 121   | 0.058 | 1     | 1.10  | 0.022 | 0.04  | 0.1   | 0.02  | 1.6   | <0.1  | <0.05 | 3     | 0.6   |
| L3750N 7550E   | Soil  | 6     | 39    | 0.52  | 102   | 0.109 | 2     | 1.95  | 0.018 | 0.13  | 0.2   | 0.01  | 2.5   | 0.2   | <0.05 | 6     | <0.5  |
| L3750N 7562.5E | Soil  | 6     | 24    | 0.38  | 128   | 0.085 | 2     | 1.69  | 0.019 | 0.11  | 0.1   | 0.01  | 1.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7575E   | Soil  | 5     | 28    | 0.46  | 143   | 0.090 | 2     | 1.63  | 0.019 | 0.11  | 0.2   | 0.01  | 2.1   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7587.5E | Soil  | 8     | 55    | 0.87  | 142   | 0.143 | 2     | 2.52  | 0.023 | 0.17  | 0.2   | 0.02  | 3.1   | 0.3   | <0.05 | 8     | <0.5  |
| L3750N 7600E   | Soil  | 5     | 43    | 0.53  | 168   | 0.103 | 2     | 1.79  | 0.019 | 0.10  | 0.1   | 0.02  | 2.3   | 0.2   | <0.05 | 6     | 0.9   |
| L3750N 7612.5E | Soil  | 6     | 26    | 0.36  | 165   | 0.089 | 3     | 1.91  | 0.019 | 0.11  | 0.2   | 0.01  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3750N 7625E   | Soil  | 7     | 19    | 0.28  | 154   | 0.072 | 2     | 1.34  | 0.017 | 0.12  | 0.1   | <0.01 | 1.8   | 0.1   | <0.05 | 4     | <0.5  |
| L3750N 7637.5E | Soil  | 8     | 23    | 0.33  | 110   | 0.078 | 4     | 1.41  | 0.016 | 0.12  | 0.3   | 0.01  | 2.1   | 0.2   | <0.05 | 4     | <0.5  |
| L3700N 7150E   | Soil  | 16    | 28    | 0.43  | 233   | 0.087 | 4     | 2.16  | 0.015 | 0.23  | 0.2   | 0.02  | 4.2   | <0.1  | <0.05 | 7     | <0.5  |
| L3700N 7162.5E | Soil  | 13    | 33    | 0.50  | 172   | 0.086 | 4     | 2.24  | 0.017 | 0.17  | 0.2   | 0.02  | 4.3   | 0.1   | <0.05 | 7     | 0.5   |
| L3700N 7175E   | Soil  | 13    | 45    | 0.72  | 113   | 0.097 | 5     | 2.32  | 0.037 | 0.25  | 0.2   | 0.02  | 5.8   | 0.2   | <0.05 | 7     | 0.7   |
| L3700N 7187E   | Soil  | 10    | 32    | 0.63  | 93    | 0.060 | 3     | 1.74  | 0.058 | 0.23  | 0.2   | 0.02  | 3.4   | 0.1   | <0.05 | 5     | 0.6   |
| L3700N 7200E   | Soil  | 9     | 38    | 0.80  | 110   | 0.075 | 4     | 1.98  | 0.053 | 0.13  | 0.2   | 0.02  | 4.3   | 0.2   | <0.05 | 6     | 0.8   |
| L3700N 7212.5E | Soil  | 11    | 26    | 0.57  | 111   | 0.069 | 3     | 1.68  | 0.032 | 0.21  | 0.2   | 0.02  | 3.7   | 0.1   | <0.05 | 5     | 0.6   |
| L3700N 7225E   | Soil  | 11    | 25    | 0.92  | 123   | 0.039 | 6     | 1.68  | 0.026 | 0.10  | 2.5   | 0.07  | 4.3   | 0.1   | <0.05 | 4     | 0.9   |
| L3700N 7237.5E | Soil  | 5     | 13    | 0.62  | 93    | 0.030 | 9     | 0.98  | 0.027 | 0.06  | 0.2   | 0.05  | 1.3   | 0.1   | 0.07  | 3     | <0.5  |
| L3700N 7250E   | Soil  | 8     | 19    | 0.64  | 121   | 0.079 | 4     | 1.97  | 0.033 | 0.09  | 0.2   | 0.03  | 3.5   | 0.1   | <0.05 | 5     | 0.5   |
| L3700N 7262.5E | Soil  | 11    | 23    | 0.84  | 127   | 0.092 | 2     | 2.47  | 0.027 | 0.12  | 0.3   | 0.03  | 6.2   | 0.2   | <0.05 | 7     | 0.7   |
| L3700N 7275E   | Soil  | 9     | 25    | 0.42  | 157   | 0.086 | 2     | 1.67  | 0.022 | 0.19  | 0.2   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | <0.5  |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3700N 7287.5E | Soil  | 2.1   | 21.8  | 8.8   | 499   | <0.1  | 22.3  | 7.8   | 630   | 1.76  | 12.9  | 0.4   | 12.7  | 2.3   | 20    | 1.4   | 0.3   | 0.4   | 35    | 0.25  | 0.155 |
| L3700N 7300E   | Soil  | 1.8   | 29.1  | 9.5   | 342   | 0.2   | 20.1  | 7.9   | 500   | 1.81  | 14.3  | 0.7   | 4.9   | 2.9   | 20    | 0.9   | 0.2   | 0.5   | 36    | 0.19  | 0.219 |
| L3700N 7312.5E | Soil  | 1.3   | 29.0  | 12.8  | 159   | 0.2   | 20.9  | 8.1   | 636   | 1.76  | 16.8  | 0.5   | 3.2   | 2.1   | 32    | 0.7   | 0.2   | 0.2   | 39    | 0.41  | 0.156 |
| L3700N 7325E   | Soil  | 1.5   | 32.7  | 12.0  | 151   | 0.2   | 20.9  | 8.5   | 556   | 1.83  | 18.2  | 0.5   | 1.1   | 2.2   | 27    | 0.7   | 0.3   | 0.2   | 44    | 0.35  | 0.136 |
| L3700N 7337.5E | Soil  | 1.3   | 27.9  | 8.7   | 114   | 0.1   | 19.2  | 7.8   | 411   | 1.83  | 17.2  | 0.8   | 2.6   | 2.4   | 19    | 0.4   | 0.2   | 0.2   | 38    | 0.20  | 0.174 |
| L3700N 7350E   | Soil  | 1.4   | 20.1  | 11.4  | 142   | <0.1  | 17.8  | 6.7   | 511   | 1.70  | 16.2  | 0.9   | 2.1   | 2.5   | 29    | 0.7   | 0.3   | 0.2   | 35    | 0.33  | 0.181 |
| L3700N 7362.5E | Soil  | 1.0   | 38.3  | 11.4  | 127   | 0.1   | 21.2  | 8.7   | 390   | 2.06  | 14.4  | 0.6   | 47.7  | 3.5   | 31    | 0.8   | 0.3   | 0.2   | 48    | 0.37  | 0.063 |
| L3700N 7375E   | Soil  | 1.0   | 31.5  | 10.4  | 149   | 0.1   | 18.7  | 7.6   | 445   | 1.80  | 33.3  | 0.8   | 2.6   | 3.0   | 29    | 1.1   | 0.2   | 0.2   | 40    | 0.36  | 0.129 |
| L3700N 7387.5E | Soil  | 0.8   | 39.0  | 10.3  | 134   | 0.1   | 23.5  | 8.2   | 470   | 1.98  | 49.0  | 0.8   | 0.7   | 2.9   | 34    | 0.7   | 0.2   | 0.2   | 48    | 0.36  | 0.136 |
| L3700N 7400E   | Soil  | 0.7   | 19.7  | 13.1  | 159   | <0.1  | 22.5  | 8.3   | 725   | 1.96  | 35.9  | 0.6   | 0.7   | 2.1   | 42    | 0.7   | 0.3   | 0.2   | 52    | 0.42  | 0.145 |
| L3700N 7412.5E | Soil  | 0.7   | 24.7  | 14.1  | 147   | 0.1   | 22.5  | 8.0   | 493   | 1.91  | 36.6  | 0.5   | 1.3   | 2.5   | 29    | 0.5   | 0.3   | 0.2   | 45    | 0.32  | 0.127 |
| L3700N 7425E   | Soil  | 0.8   | 21.3  | 10.6  | 106   | <0.1  | 21.4  | 8.2   | 570   | 1.94  | 20.3  | 0.7   | <0.5  | 2.6   | 28    | 0.6   | 0.3   | 0.2   | 55    | 0.31  | 0.074 |
| L3700N 7437.5E | Soil  | 0.8   | 22.1  | 15.1  | 130   | <0.1  | 23.5  | 8.8   | 874   | 2.11  | 26.7  | 0.9   | 1.5   | 2.2   | 30    | 0.9   | 0.4   | 0.2   | 64    | 0.38  | 0.096 |
| L3700N 7450E   | Soil  | 0.8   | 21.0  | 16.0  | 131   | <0.1  | 21.4  | 7.2   | 780   | 1.79  | 18.5  | 0.9   | 1.1   | 1.7   | 35    | 1.3   | 0.4   | 0.3   | 55    | 0.49  | 0.129 |
| L3700N 7462.5E | Soil  | 0.8   | 18.6  | 13.8  | 112   | <0.1  | 19.1  | 8.4   | 793   | 1.90  | 12.9  | 0.8   | 1.1   | 2.4   | 29    | 0.6   | 0.3   | 0.3   | 49    | 0.52  | 0.078 |
| L3700N 7475E   | Soil  | 1.0   | 23.6  | 15.3  | 143   | <0.1  | 26.6  | 9.6   | 579   | 2.27  | 21.7  | 1.0   | 1.4   | 2.6   | 30    | 0.3   | 0.9   | 0.7   | 57    | 0.32  | 0.119 |
| L3700N 7487.5E | Soil  | 0.6   | 25.6  | 10.7  | 123   | <0.1  | 23.7  | 8.4   | 527   | 1.96  | 15.0  | 0.5   | 2.9   | 2.8   | 21    | 0.4   | 0.2   | 0.2   | 47    | 0.20  | 0.113 |
| L3700N 7500E   | Soil  | 0.8   | 30.5  | 10.7  | 122   | 0.1   | 24.9  | 9.6   | 502   | 2.23  | 15.9  | 0.6   | <0.5  | 3.1   | 25    | 0.4   | 0.3   | 0.2   | 52    | 0.26  | 0.122 |
| L3700N 7512.5E | Soil  | 0.6   | 17.5  | 6.8   | 246   | 0.1   | 55.6  | 15.7  | 1123  | 2.97  | 14.0  | 0.4   | 0.6   | 1.6   | 26    | 0.6   | 0.3   | 0.2   | 61    | 0.26  | 0.086 |
| L3700N 7525E   | Soil  | 0.6   | 16.5  | 9.1   | 119   | <0.1  | 24.8  | 8.6   | 515   | 1.94  | 12.9  | 0.3   | 3.1   | 2.3   | 18    | 0.3   | 0.2   | 0.2   | 43    | 0.16  | 0.093 |
| L3700N 7537.5E | Soil  | 0.5   | 22.5  | 18.7  | 186   | <0.1  | 22.7  | 8.4   | 1182  | 1.94  | 16.9  | 0.5   | 1.6   | 2.5   | 39    | 0.9   | 0.4   | 1.1   | 48    | 0.43  | 0.202 |
| L3700N 7550E   | Soil  | 0.2   | 24.8  | 13.0  | 126   | <0.1  | 9.8   | 4.7   | 1326  | 1.16  | 12.9  | 0.6   | 1.1   | 0.8   | 67    | 1.2   | 0.3   | 0.3   | 38    | 0.91  | 0.223 |
| L3700N 7562.5E | Soil  | 0.7   | 28.9  | 17.5  | 116   | <0.1  | 26.6  | 10.5  | 780   | 2.39  | 12.9  | 0.8   | 0.7   | 2.9   | 26    | 0.5   | 0.4   | 0.3   | 70    | 0.34  | 0.096 |
| L3700N 7575E   | Soil  | 0.6   | 24.9  | 12.4  | 104   | <0.1  | 26.2  | 9.9   | 617   | 2.29  | 13.8  | 0.6   | 1.3   | 3.3   | 46    | 0.6   | 0.3   | 0.2   | 65    | 0.61  | 0.099 |
| L3700N 7587.5E | Soil  | 0.6   | 26.9  | 12.9  | 96    | <0.1  | 29.1  | 11.0  | 706   | 2.51  | 27.8  | 0.7   | 0.9   | 3.2   | 36    | 0.6   | 0.4   | 0.2   | 73    | 0.63  | 0.114 |
| L3700N 7600E   | Soil  | 0.6   | 33.9  | 12.4  | 97    | 0.1   | 36.7  | 12.5  | 408   | 2.68  | 18.1  | 0.6   | 1.3   | 3.9   | 45    | 0.3   | 0.3   | 0.2   | 71    | 0.53  | 0.096 |
| L3700N 7612.5E | Soil  | 0.4   | 22.6  | 9.1   | 94    | <0.1  | 23.9  | 8.5   | 404   | 1.93  | 14.1  | 0.3   | 0.8   | 2.5   | 26    | 0.3   | 0.2   | 0.2   | 45    | 0.29  | 0.150 |
| L3700N 7625E   | Soil  | 0.4   | 27.3  | 9.8   | 90    | <0.1  | 23.3  | 9.1   | 276   | 2.18  | 14.9  | 0.5   | 1.6   | 3.1   | 17    | 0.1   | 0.3   | 0.2   | 58    | 0.23  | 0.095 |
| L3650N 7150E   | Soil  | 1.4   | 46.3  | 18.2  | 288   | 0.1   | 57.4  | 16.2  | 932   | 2.85  | 27.7  | 0.7   | 17.5  | 2.4   | 62    | 2.4   | 0.5   | 0.3   | 69    | 0.59  | 0.117 |
| L3650N 7162.5E | Soil  | 1.1   | 46.8  | 25.1  | 226   | 0.1   | 62.5  | 20.1  | 1361  | 3.12  | 34.4  | 0.6   | 22.4  | 2.7   | 84    | 2.4   | 0.6   | 0.4   | 82    | 0.81  | 0.129 |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            | 1DX15 |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|-------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |       |
| L3700N 7287.5E                   | Soil           | 9              | 24              | 0.34           | 231              | 0.074         | 2               | 1.43             | 0.022          | 0.15            | 0.2               | 0.01             | 2.5              | 0.1            | <0.05          | 4                | <0.5  |
| L3700N 7300E                     | Soil           | 11             | 22              | 0.35           | 175              | 0.085         | 2               | 1.84             | 0.025          | 0.13            | 0.2               | 0.01             | 2.7              | 0.1            | <0.05          | 5                | <0.5  |
| L3700N 7312.5E                   | Soil           | 10             | 23              | 0.34           | 211              | 0.081         | 4               | 1.69             | 0.022          | 0.16            | 0.1               | 0.04             | 2.4              | 0.1            | <0.05          | 5                | <0.5  |
| L3700N 7325E                     | Soil           | 11             | 24              | 0.37           | 180              | 0.078         | 3               | 1.50             | 0.022          | 0.16            | 0.2               | 0.02             | 2.5              | 0.1            | <0.05          | 4                | <0.5  |
| L3700N 7337.5E                   | Soil           | 9              | 22              | 0.32           | 134              | 0.093         | 2               | 2.09             | 0.023          | 0.12            | 0.2               | 0.02             | 2.4              | 0.1            | <0.05          | 5                | <0.5  |
| L3700N 7350E                     | Soil           | 8              | 19              | 0.30           | 177              | 0.094         | 4               | 1.97             | 0.026          | 0.12            | 0.2               | 0.02             | 2.2              | 0.1            | <0.05          | 5                | <0.5  |
| L3700N 7362.5E                   | Soil           | 13             | 26              | 0.45           | 122              | 0.109         | 3               | 2.09             | 0.033          | 0.21            | 0.3               | 0.01             | 3.3              | 0.2            | <0.05          | 6                | <0.5  |
| L3700N 7375E                     | Soil           | 11             | 22              | 0.38           | 122              | 0.106         | 2               | 2.35             | 0.031          | 0.10            | 0.2               | 0.03             | 2.8              | 0.2            | <0.05          | 6                | 0.5   |
| L3700N 7387.5E                   | Soil           | 11             | 26              | 0.55           | 131              | 0.103         | 3               | 2.40             | 0.032          | 0.10            | 0.2               | 0.02             | 2.9              | 0.3            | <0.05          | 6                | 0.8   |
| L3700N 7400E                     | Soil           | 8              | 28              | 0.61           | 201              | 0.091         | 4               | 2.14             | 0.029          | 0.12            | 0.2               | 0.02             | 2.5              | 0.2            | <0.05          | 6                | 0.5   |
| L3700N 7412.5E                   | Soil           | 8              | 26              | 0.47           | 162              | 0.090         | 2               | 1.94             | 0.025          | 0.11            | 0.2               | 0.02             | 2.5              | 0.2            | <0.05          | 6                | <0.5  |
| L3700N 7425E                     | Soil           | 10             | 27              | 0.58           | 166              | 0.096         | 2               | 2.27             | 0.029          | 0.11            | 0.2               | 0.01             | 2.6              | 0.1            | <0.05          | 6                | 0.6   |
| L3700N 7437.5E                   | Soil           | 10             | 30              | 0.79           | 171              | 0.105         | 3               | 2.44             | 0.028          | 0.10            | 0.2               | 0.02             | 2.6              | 0.2            | <0.05          | 7                | 0.6   |
| L3700N 7450E                     | Soil           | 9              | 25              | 0.75           | 163              | 0.088         | 3               | 2.02             | 0.032          | 0.10            | 0.2               | 0.02             | 2.3              | 0.2            | <0.05          | 6                | 0.8   |
| L3700N 7462.5E                   | Soil           | 11             | 26              | 1.12           | 159              | 0.102         | 3               | 2.41             | 0.025          | 0.10            | 0.2               | 0.03             | 2.7              | 0.2            | <0.05          | 6                | <0.5  |
| L3700N 7475E                     | Soil           | 8              | 33              | 0.62           | 119              | 0.113         | 4               | 2.31             | 0.024          | 0.10            | 0.3               | 0.01             | 2.6              | 0.1            | <0.05          | 7                | 0.5   |
| L3700N 7487.5E                   | Soil           | 8              | 27              | 0.41           | 153              | 0.104         | 2               | 2.01             | 0.022          | 0.10            | 0.2               | 0.01             | 2.4              | 0.1            | <0.05          | 5                | <0.5  |
| L3700N 7500E                     | Soil           | 10             | 31              | 0.46           | 178              | 0.119         | 3               | 2.28             | 0.026          | 0.12            | 0.2               | 0.02             | 2.6              | 0.1            | <0.05          | 7                | <0.5  |
| L3700N 7512.5E                   | Soil           | 4              | 65              | 1.04           | 152              | 0.163         | 2               | 2.28             | 0.051          | 0.08            | 0.1               | <0.01            | 3.2              | 0.2            | <0.05          | 8                | <0.5  |
| L3700N 7525E                     | Soil           | 6              | 31              | 0.46           | 185              | 0.102         | 2               | 1.96             | 0.022          | 0.10            | 0.2               | <0.01            | 1.9              | 0.1            | <0.05          | 6                | <0.5  |
| L3700N 7537.5E                   | Soil           | 9              | 30              | 0.47           | 268              | 0.097         | 4               | 2.03             | 0.026          | 0.14            | 0.3               | 0.02             | 2.4              | 0.2            | <0.05          | 6                | <0.5  |
| L3700N 7550E                     | Soil           | 5              | 21              | 0.36           | 156              | 0.062         | 3               | 1.17             | 0.042          | 0.05            | 0.1               | 0.02             | 1.3              | 0.2            | <0.05          | 3                | <0.5  |
| L3700N 7562.5E                   | Soil           | 13             | 41              | 0.77           | 140              | 0.129         | 2               | 2.45             | 0.032          | 0.11            | 0.2               | 0.01             | 3.2              | 0.2            | <0.05          | 7                | <0.5  |
| L3700N 7575E                     | Soil           | 12             | 44              | 0.79           | 127              | 0.117         | 4               | 2.28             | 0.035          | 0.11            | 0.2               | 0.02             | 3.3              | 0.2            | <0.05          | 6                | 0.5   |
| L3700N 7587.5E                   | Soil           | 13             | 54              | 1.20           | 125              | 0.114         | 4               | 2.27             | 0.033          | 0.12            | 0.2               | 0.03             | 3.6              | 0.2            | <0.05          | 6                | 0.7   |
| L3700N 7600E                     | Soil           | 16             | 55              | 0.93           | 135              | 0.127         | 3               | 2.42             | 0.036          | 0.19            | 0.2               | 0.01             | 4.4              | 0.2            | <0.05          | 7                | <0.5  |
| L3700N 7612.5E                   | Soil           | 8              | 33              | 0.49           | 173              | 0.104         | 2               | 1.86             | 0.032          | 0.15            | 0.2               | 0.01             | 2.4              | 0.1            | <0.05          | 6                | <0.5  |
| L3700N 7625E                     | Soil           | 9              | 35              | 0.49           | 118              | 0.100         | 2               | 1.66             | 0.019          | 0.09            | 0.2               | 0.02             | 2.3              | 0.1            | <0.05          | 6                | <0.5  |
| L3650N 7150E                     | Soil           | 11             | 35              | 0.54           | 137              | 0.087         | 3               | 2.26             | 0.051          | 0.20            | 0.2               | 0.02             | 4.6              | 0.1            | 0.06           | 7                | 0.6   |
| L3650N 7162.5E                   | Soil           | 11             | 53              | 0.68           | 205              | 0.106         | 3               | 2.34             | 0.053          | 0.29            | 0.2               | 0.02             | 5.4              | 0.2            | <0.05          | 7                | 0.8   |



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Project: 41

Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L3650N 7175E            | Soil             | 1.5              | 48.3             | 24.0           | 333              | 0.1              | 68.4             | 17.2           | 936             | 2.95             | 44.8            | 0.8              | <0.5             | 2.4            | 57               | 3.4              | 0.8              | 0.4           | 78              | 0.52            | 0.138 |
| L3650N 7187.5E          | Soil             | 2.3              | 56.9             | 36.4           | 522              | 0.2              | 60.7             | 19.0           | 920             | 3.00             | 43.9            | 0.9              | 2.4              | 3.0            | 47               | 4.0              | 0.8              | 0.3           | 82              | 0.51            | 0.083 |
| L3650N 7200E            | Soil             | 3.3              | 47.1             | 19.1           | 201              | 0.6              | 36.7             | 17.6           | 1352            | 3.12             | 61.2            | 1.0              | 3.0              | 1.3            | 40               | 2.5              | 1.1              | 0.3           | 78              | 0.64            | 0.114 |
| L3650N 7212.5E          | Soil             | 3.6              | 45.7             | 18.0           | 178              | 0.5              | 23.2             | 14.1           | 1289            | 2.74             | 46.2            | 0.8              | 4.1              | 1.9            | 30               | 1.4              | 1.1              | 0.3           | 64              | 0.76            | 0.103 |
| L3650N 7225E            | Soil             | 5.5              | 113.7            | 16.6           | 1354             | 0.4              | 12.1             | 9.5            | 1506            | 1.46             | 20.0            | 0.8              | 3.0              | 0.2            | 145              | 8.7              | 0.7              | 0.4           | 24              | 7.65            | 0.146 |
| L3650N 7237.5E          | Soil             | 12.8             | 69.1             | 30.3           | 4813             | 0.7              | 18.8             | 19.5           | 2256            | 2.47             | 30.4            | 0.8              | 1.5              | 1.1            | 32               | 17.8             | 0.8              | 1.6           | 44              | 0.61            | 0.158 |
| L3650N 7250E            | Soil             | 4.5              | 65.2             | 19.2           | 3301             | 0.5              | 11.0             | 10.9           | 1130            | 1.42             | 14.1            | 0.3              | 2.6              | 1.4            | 23               | 10.8             | 0.3              | 1.0           | 29              | 0.35            | 0.137 |
| L3650N 7262.5E          | Soil             | 2.8              | 52.0             | 15.9           | 1631             | 0.3              | 13.4             | 9.2            | 1376            | 1.37             | 9.5             | 0.3              | 3.3              | 1.5            | 21               | 5.0              | 0.2              | 0.6           | 32              | 0.34            | 0.096 |
| L3650N 7275E            | Soil             | 2.2              | 39.2             | 12.7           | 661              | 0.2              | 16.1             | 6.5            | 598             | 1.33             | 12.6            | 0.5              | 1.1              | 2.1            | 27               | 1.7              | 0.3              | 0.3           | 30              | 0.33            | 0.111 |
| L3650N 7287.5E          | Soil             | 1.1              | 26.5             | 12.0           | 180              | 0.2              | 16.8             | 7.4            | 675             | 1.39             | 19.2            | 0.5              | 2.7              | 2.0            | 31               | 1.0              | 0.2              | 0.2           | 34              | 0.41            | 0.172 |
| L3650N 7300E            | Soil             | 1.3              | 29.9             | 11.8           | 155              | 0.2              | 19.2             | 7.6            | 521             | 1.52             | 17.0            | 0.5              | 4.0              | 2.0            | 21               | 0.7              | 0.2              | 0.2           | 37              | 0.27            | 0.150 |
| L3650N 7312.5E          | Soil             | 1.4              | 32.3             | 13.4           | 150              | 0.1              | 22.2             | 8.4            | 419             | 1.61             | 15.3            | 0.6              | 3.2              | 2.4            | 18               | 0.6              | 0.2              | 0.2           | 43              | 0.27            | 0.101 |
| L3650N 7325E            | Soil             | 1.4              | 30.2             | 10.0           | 153              | 0.2              | 25.9             | 9.0            | 234             | 2.19             | 12.9            | 0.8              | 2.0              | 3.5            | 17               | 0.4              | 0.2              | 0.2           | 48              | 0.21            | 0.050 |
| L3650N 7337.5E          | Soil             | 0.8              | 24.2             | 8.7            | 133              | 0.1              | 21.6             | 6.8            | 407             | 1.39             | 12.2            | 0.7              | 2.2              | 2.2            | 20               | 0.4              | 0.2              | 0.1           | 33              | 0.23            | 0.133 |
| L3650N 7350E            | Soil             | 0.7              | 22.6             | 9.6            | 122              | 0.1              | 22.2             | 7.1            | 550             | 1.68             | 14.8            | 0.6              | 1.3              | 2.5            | 26               | 0.4              | 0.2              | 0.2           | 33              | 0.27            | 0.230 |
| L3650N 7362.5E          | Soil             | 0.4              | 15.6             | 10.1           | 169              | 0.1              | 19.1             | 6.4            | 755             | 1.33             | 12.4            | 0.5              | 1.7              | 1.5            | 29               | 0.7              | 0.2              | 0.2           | 37              | 0.45            | 0.108 |
| L3650N 7375E            | Soil             | 0.8              | 26.9             | 8.1            | 120              | <0.1             | 25.4             | 9.1            | 195             | 2.25             | 12.1            | 0.6              | 3.1              | 3.1            | 17               | 0.3              | 0.2              | 0.1           | 54              | 0.20            | 0.055 |
| L3650N 7387.5E          | Soil             | 0.8              | 21.1             | 8.7            | 127              | <0.1             | 21.4             | 6.7            | 376             | 1.42             | 12.5            | 0.6              | 1.9              | 2.4            | 22               | 0.3              | 0.2              | 0.2           | 33              | 0.24            | 0.098 |
| L3650N 7400E            | Soil             | 0.8              | 18.1             | 7.9            | 160              | <0.1             | 18.4             | 6.5            | 427             | 1.33             | 11.9            | 0.5              | 0.7              | 2.1            | 21               | 0.5              | 0.2              | 0.2           | 29              | 0.25            | 0.122 |
| L3650N 7412.5E          | Soil             | 0.9              | 25.9             | 11.9           | 187              | 0.1              | 26.3             | 9.6            | 639             | 2.26             | 11.7            | 0.9              | 4.8              | 2.5            | 28               | 0.8              | 0.3              | 0.3           | 56              | 0.38            | 0.070 |
| L3650N 7425E            | Soil             | 1.2              | 19.9             | 12.1           | 146              | <0.1             | 22.9             | 8.4            | 702             | 2.20             | 15.4            | 0.5              | 0.7              | 2.0            | 23               | 0.5              | 0.4              | 0.2           | 51              | 0.34            | 0.042 |
| L3650N 7437.5E          | Soil             | 0.7              | 18.8             | 9.5            | 149              | <0.1             | 17.9             | 6.5            | 495             | 1.47             | 15.8            | 0.4              | 7.5              | 1.7            | 23               | 0.4              | 0.3              | 0.2           | 36              | 0.22            | 0.042 |
| L3650N 7450E            | Soil             | 0.4              | 14.5             | 7.6            | 196              | <0.1             | 14.6             | 5.7            | 579             | 1.17             | 16.7            | 0.3              | 1.7              | 1.6            | 23               | 0.8              | 0.2              | 0.2           | 24              | 0.21            | 0.168 |
| L3650N 7462.5E          | Soil             | 0.5              | 13.6             | 9.2            | 179              | <0.1             | 15.5             | 6.1            | 640             | 1.29             | 16.3            | 0.3              | 0.9              | 1.3            | 19               | 0.5              | 0.2              | 0.2           | 31              | 0.20            | 0.119 |
| L3650N 7475E            | Soil             | 0.5              | 12.6             | 8.7            | 167              | <0.1             | 13.9             | 5.8            | 587             | 1.21             | 14.6            | 0.2              | 0.5              | 1.1            | 17               | 0.4              | 0.2              | 0.1           | 29              | 0.17            | 0.106 |
| L3650N 7487E            | Soil             | 0.3              | 16.5             | 7.1            | 126              | <0.1             | 16.4             | 5.9            | 779             | 1.24             | 14.4            | 0.3              | 5.0              | 1.7            | 23               | 0.4              | 0.3              | 0.1           | 28              | 0.22            | 0.102 |
| L3650N 7500E            | Soil             | 0.5              | 17.8             | 13.1           | 233              | <0.1             | 15.0             | 6.1            | 1119            | 1.18             | 15.7            | 0.3              | 1.5              | 1.4            | 24               | 1.0              | 0.3              | 0.2           | 29              | 0.27            | 0.133 |
| L3650N 7512.5E          | Soil             | 0.2              | 27.8             | 32.5           | 384              | 0.3              | 26.3             | 8.8            | 1433            | 1.41             | 14.9            | 0.4              | 1.5              | 1.3            | 75               | 1.9              | 0.6              | 1.1           | 44              | 0.96            | 0.246 |
| L3650N 7525E            | Soil             | 0.4              | 28.5             | 15.0           | 244              | 0.1              | 27.2             | 11.3           | 1267            | 1.96             | 24.3            | 0.6              | 2.5              | 1.7            | 61               | 1.4              | 0.5              | 0.6           | 51              | 0.88            | 0.157 |
| L3650N 7537.5E          | Soil             | 0.6              | 21.9             | 11.7           | 117              | <0.1             | 22.9             | 9.2            | 714             | 2.12             | 12.2            | 0.6              | 1.9              | 2.2            | 29               | 0.6              | 0.4              | 0.2           | 65              | 0.35            | 0.054 |



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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L3650N 7175E   | Soil  | 10    | 37    | 0.52  | 110   | 0.083 | 2     | 2.14  | 0.042 | 0.17  | 0.1   | 0.02  | 4.4   | 0.2   | <0.05 | 6     | 0.6  |
| L3650N 7187.5E | Soil  | 12    | 38    | 0.57  | 120   | 0.104 | 2     | 2.45  | 0.036 | 0.16  | 0.2   | 0.02  | 5.7   | 0.2   | <0.05 | 8     | 0.7  |
| L3650N 7200E   | Soil  | 15    | 29    | 0.55  | 197   | 0.062 | 2     | 2.05  | 0.021 | 0.30  | 0.3   | 0.03  | 6.9   | 0.1   | 0.05  | 7     | 1.0  |
| L3650N 7212.5E | Soil  | 13    | 24    | 0.50  | 162   | 0.062 | 3     | 2.08  | 0.022 | 0.23  | 0.2   | 0.03  | 6.5   | 0.2   | 0.06  | 6     | 0.8  |
| L3650N 7225E   | Soil  | 4     | 12    | 0.35  | 70    | 0.021 | 10    | 0.82  | 0.021 | 0.04  | 0.1   | 0.03  | 1.4   | <0.1  | 0.15  | 3     | 0.5  |
| L3650N 7237.5E | Soil  | 7     | 17    | 0.63  | 143   | 0.064 | 3     | 1.96  | 0.031 | 0.09  | 0.2   | 0.06  | 3.3   | 0.1   | 0.06  | 6     | 1.0  |
| L3650N 7250E   | Soil  | 6     | 12    | 0.32  | 159   | 0.072 | 2     | 1.49  | 0.019 | 0.06  | 0.2   | 0.03  | 2.3   | <0.1  | <0.05 | 5     | 0.5  |
| L3650N 7262.5E | Soil  | 5     | 16    | 0.30  | 147   | 0.077 | 2     | 1.46  | 0.019 | 0.09  | 0.1   | 0.02  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L3650N 7275E   | Soil  | 9     | 16    | 0.26  | 185   | 0.082 | 3     | 1.71  | 0.019 | 0.12  | 0.1   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7287.5E | Soil  | 9     | 19    | 0.25  | 207   | 0.075 | 4     | 1.63  | 0.026 | 0.16  | 0.1   | 0.02  | 2.2   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7300E   | Soil  | 10    | 21    | 0.28  | 198   | 0.077 | 1     | 1.67  | 0.018 | 0.13  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7312.5E | Soil  | 11    | 25    | 0.32  | 161   | 0.082 | 1     | 1.68  | 0.016 | 0.17  | 0.2   | 0.02  | 2.6   | <0.1  | <0.05 | 5     | <0.5 |
| L3650N 7325E   | Soil  | 13    | 28    | 0.35  | 116   | 0.091 | <1    | 1.54  | 0.015 | 0.15  | 0.2   | 0.02  | 3.3   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7337.5E | Soil  | 9     | 20    | 0.24  | 190   | 0.091 | 2     | 1.86  | 0.022 | 0.11  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7350E   | Soil  | 7     | 20    | 0.31  | 230   | 0.096 | 3     | 2.17  | 0.022 | 0.13  | 0.2   | 0.01  | 2.4   | 0.1   | <0.05 | 6     | <0.5 |
| L3650N 7362.5E | Soil  | 5     | 21    | 0.63  | 224   | 0.081 | 3     | 1.79  | 0.021 | 0.09  | 0.2   | 0.02  | 2.0   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7375E   | Soil  | 10    | 32    | 0.43  | 124   | 0.093 | <1    | 1.91  | 0.013 | 0.10  | 0.2   | 0.01  | 2.7   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7387.5E | Soil  | 7     | 20    | 0.30  | 160   | 0.097 | 2     | 2.10  | 0.022 | 0.11  | <0.1  | 0.02  | 2.2   | 0.1   | <0.05 | 6     | <0.5 |
| L3650N 7400E   | Soil  | 6     | 19    | 0.28  | 182   | 0.090 | <1    | 1.89  | 0.020 | 0.10  | 0.1   | 0.01  | 2.1   | 0.2   | <0.05 | 5     | <0.5 |
| L3650N 7412.5E | Soil  | 9     | 30    | 0.64  | 150   | 0.106 | 2     | 2.27  | 0.016 | 0.11  | 0.2   | 0.02  | 3.0   | 0.3   | <0.05 | 7     | 0.6  |
| L3650N 7425E   | Soil  | 7     | 27    | 0.69  | 128   | 0.098 | 2     | 2.13  | 0.018 | 0.13  | 0.2   | 0.02  | 2.5   | 0.3   | <0.05 | 6     | 0.5  |
| L3650N 7437.5E | Soil  | 5     | 19    | 0.30  | 177   | 0.092 | 2     | 1.96  | 0.022 | 0.11  | 0.1   | 0.02  | 1.8   | 0.4   | <0.05 | 6     | <0.5 |
| L3650N 7450E   | Soil  | 4     | 15    | 0.21  | 204   | 0.077 | <1    | 1.58  | 0.019 | 0.10  | <0.1  | <0.01 | 1.4   | 0.2   | <0.05 | 5     | <0.5 |
| L3650N 7462.5E | Soil  | 5     | 19    | 0.24  | 158   | 0.077 | 1     | 1.40  | 0.017 | 0.09  | 0.2   | 0.03  | 1.5   | 0.1   | <0.05 | 5     | 0.5  |
| L3650N 7475E   | Soil  | 4     | 16    | 0.22  | 139   | 0.071 | 1     | 1.24  | 0.019 | 0.08  | 0.2   | 0.01  | 1.4   | 0.1   | <0.05 | 4     | <0.5 |
| L3650N 7487E   | Soil  | 5     | 18    | 0.24  | 185   | 0.080 | <1    | 1.64  | 0.020 | 0.10  | 0.1   | 0.03  | 1.6   | 0.1   | <0.05 | 4     | <0.5 |
| L3650N 7500E   | Soil  | 5     | 18    | 0.26  | 227   | 0.077 | 1     | 1.62  | 0.019 | 0.10  | 0.1   | 0.02  | 1.7   | 0.1   | <0.05 | 4     | <0.5 |
| L3650N 7512.5E | Soil  | 6     | 40    | 0.45  | 238   | 0.078 | 3     | 1.44  | 0.023 | 0.06  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 4     | <0.5 |
| L3650N 7525E   | Soil  | 7     | 33    | 0.46  | 171   | 0.094 | 1     | 1.75  | 0.025 | 0.06  | 0.2   | 0.02  | 2.7   | 0.2   | <0.05 | 5     | <0.5 |
| L3650N 7537.5E | Soil  | 9     | 33    | 0.49  | 130   | 0.111 | 1     | 2.42  | 0.021 | 0.09  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 7     | <0.5 |



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**CERTIFICATE OF ANALYSIS**

**VAN07002985.1**

| Method         | Analyte | Unit | MDL | 1DX15 Mo | 1DX15 Cu | 1DX15 Pb | 1DX15 Zn | 1DX15 Ag | 1DX15 Ni | 1DX15 Co | 1DX15 Mn | 1DX15 Fe | 1DX15 As | 1DX15 U | 1DX15 Au | 1DX15 Th | 1DX15 Sr | 1DX15 Cd | 1DX15 Sb | 1DX15 Bi | 1DX15 V | 1DX15 Ca | 1DX15 P |
|----------------|---------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|---------|----------|---------|
|                |         |      |     | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm     | ppb      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm     | %        | %       |
|                |         |      |     | 0.1      | 0.1      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 1        | 0.01     | 0.5      | 0.1     | 0.5      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 2       | 0.01     | 0.001   |
| L3650N 7550E   | Soil    |      |     | 0.2      | 26.9     | 16.5     | 100      | <0.1     | 17.7     | 7.2      | 881      | 1.18     | 10.0     | 0.4     | 1.8      | 1.4      | 44       | 0.7      | 0.5      | 0.3      | 55      | 0.67     | 0.127   |
| L3650N 7562.5E | Soil    |      |     | 0.8      | 27.8     | 12.9     | 110      | <0.1     | 31.7     | 11.7     | 554      | 2.26     | 24.2     | 0.6     | 2.4      | 2.5      | 28       | 0.4      | 0.5      | 0.3      | 55      | 0.41     | 0.058   |
| L3650N 7575E   | Soil    |      |     | 1.2      | 26.5     | 12.1     | 137      | 0.2      | 20.8     | 6.6      | 1459     | 1.82     | 21.1     | 0.8     | 1.8      | 1.5      | 74       | 1.3      | 0.7      | 0.2      | 81      | 2.54     | 0.232   |
| L3650N 7587.5E | Soil    |      |     | 1.1      | 37.2     | 13.4     | 97       | 0.2      | 17.2     | 6.8      | 1109     | 1.19     | 24.5     | 0.9     | 1.9      | 0.2      | 119      | 1.1      | 0.5      | 0.2      | 42      | 6.60     | 0.245   |
| L3650N 7600E   | Soil    |      |     | 1.8      | 29.6     | 14.0     | 145      | 0.2      | 33.9     | 11.7     | 1379     | 2.53     | 34.9     | 1.3     | 6.7      | 2.2      | 67       | 1.2      | 0.7      | 0.5      | 78      | 3.17     | 0.248   |
| L3650N 7612.5E | Soil    |      |     | 0.8      | 30.3     | 15.7     | 126      | <0.1     | 31.7     | 11.8     | 996      | 2.52     | 19.0     | 0.8     | 2.2      | 3.2      | 36       | 0.8      | 0.5      | 0.3      | 66      | 0.85     | 0.100   |
| L3650N 7625E   | Soil    |      |     | 0.5      | 21.3     | 15.5     | 75       | <0.1     | 21.0     | 8.1      | 780      | 1.82     | 13.5     | 0.6     | 2.7      | 2.3      | 30       | 0.5      | 0.4      | 0.2      | 47      | 0.63     | 0.084   |
| L3650N 7637.5E | Soil    |      |     | 0.6      | 30.8     | 13.4     | 88       | <0.1     | 28.5     | 11.4     | 721      | 2.45     | 13.8     | 0.7     | 10.4     | 4.1      | 28       | 0.5      | 0.4      | 0.2      | 59      | 0.50     | 0.072   |
| L3600N 7150E   | Soil    |      |     | 2.2      | 64.3     | 18.1     | 408      | 0.6      | 87.4     | 20.2     | 655      | 2.81     | 46.4     | 1.2     | 4.4      | 2.3      | 79       | 3.1      | 0.9      | 0.4      | 65      | 0.63     | 0.091   |
| L3600N 7162.5E | Soil    |      |     | 2.0      | 59.9     | 11.3     | 356      | 0.2      | 53.9     | 17.9     | 851      | 2.60     | 42.0     | 0.9     | 2.1      | 2.2      | 48       | 2.9      | 0.7      | 0.4      | 71      | 0.76     | 0.115   |
| L3600N 7175E   | Soil    |      |     | 3.9      | 52.9     | 11.7     | 302      | 0.2      | 45.3     | 15.7     | 827      | 2.93     | 37.1     | 0.9     | 2.1      | 2.4      | 39       | 1.8      | 0.9      | 0.4      | 84      | 0.50     | 0.088   |
| L3600N 7187.5E | Soil    |      |     | 3.7      | 29.1     | 10.9     | 182      | <0.1     | 28.2     | 12.4     | 995      | 2.58     | 26.6     | 0.7     | 1.3      | 1.7      | 31       | 1.2      | 0.8      | 0.2      | 64      | 0.42     | 0.102   |
| L3600N 7200E   | Soil    |      |     | 4.0      | 47.4     | 20.9     | 387      | 0.1      | 39.3     | 13.7     | 765      | 3.05     | 30.1     | 0.9     | 5.3      | 3.5      | 35       | 1.4      | 0.8      | 0.4      | 80      | 0.44     | 0.057   |
| L3600N 7212.5E | Soil    |      |     | 5.6      | 78.5     | 53.5     | 1010     | 0.3      | 16.7     | 7.6      | 1458     | 1.71     | 14.7     | 0.3     | 1.1      | 1.4      | 27       | 3.5      | 0.6      | 0.8      | 42      | 0.57     | 0.075   |
| L3600N 7225E   | Soil    |      |     | 3.3      | 30.3     | 12.1     | 630      | <0.1     | 14.7     | 6.0      | 564      | 1.60     | 10.0     | 0.3     | 1.1      | 1.8      | 19       | 1.2      | 0.3      | 0.3      | 41      | 0.27     | 0.044   |
| L3600N 7237.5E | Soil    |      |     | 3.0      | 26.2     | 9.6      | 788      | 0.1      | 16.9     | 6.8      | 749      | 1.46     | 10.6     | 0.3     | <0.5     | 2.0      | 31       | 2.1      | 0.2      | 0.3      | 32      | 0.29     | 0.151   |
| L3600N 7250E   | Soil    |      |     | 2.3      | 29.3     | 8.5      | 256      | <0.1     | 29.4     | 10.2     | 415      | 2.02     | 15.0     | 0.5     | 2.6      | 3.2      | 18       | 0.7      | 0.3      | 0.2      | 51      | 0.22     | 0.061   |
| L3600N 7262.5E | Soil    |      |     | 1.4      | 16.2     | 7.6      | 373      | <0.1     | 19.4     | 6.8      | 607      | 1.40     | 15.4     | 0.3     | 2.7      | 1.7      | 14       | 1.6      | 0.2      | 0.2      | 31      | 0.17     | 0.098   |
| L3600N 7275E   | Soil    |      |     | 1.7      | 23.4     | 9.7      | 283      | <0.1     | 20.7     | 7.2      | 480      | 1.59     | 15.6     | 0.5     | <0.5     | 2.5      | 16       | 0.6      | 0.2      | 0.2      | 37      | 0.22     | 0.061   |
| L3600N 7287.5E | Soil    |      |     | 1.6      | 34.0     | 9.8      | 258      | 0.1      | 24.2     | 8.1      | 379      | 1.73     | 16.4     | 0.8     | 1.4      | 3.1      | 17       | 0.8      | 0.2      | 0.2      | 39      | 0.23     | 0.092   |
| L3600N 7300E   | Soil    |      |     | 1.2      | 25.6     | 9.5      | 230      | 0.1      | 24.7     | 7.6      | 511      | 1.79     | 17.6     | 0.8     | 0.7      | 3.2      | 22       | 0.6      | 0.2      | 0.2      | 36      | 0.29     | 0.196   |
| L3600N 7312.5E | Soil    |      |     | 1.0      | 25.3     | 8.2      | 144      | <0.1     | 22.1     | 8.2      | 287      | 1.77     | 14.0     | 0.5     | 2.9      | 3.0      | 19       | 0.2      | 0.2      | 0.1      | 48      | 0.26     | 0.045   |
| L3600N 7325E   | Soil    |      |     | 0.9      | 21.8     | 7.7      | 160      | <0.1     | 23.9     | 7.4      | 479      | 1.55     | 10.3     | 0.5     | 0.8      | 2.4      | 21       | 0.5      | 0.1      | 0.2      | 37      | 0.22     | 0.112   |
| L3600N 7337.5E | Soil    |      |     | 1.0      | 26.4     | 9.2      | 146      | 0.1      | 29.0     | 8.9      | 483      | 1.91     | 9.8      | 0.6     | 0.8      | 2.8      | 21       | 0.3      | 0.2      | 0.2      | 47      | 0.24     | 0.109   |
| L3600N 7350E   | Soil    |      |     | 0.9      | 24.9     | 10.5     | 184      | 0.1      | 36.8     | 10.5     | 543      | 2.27     | 9.0      | 0.7     | 6.5      | 3.0      | 28       | 0.6      | 0.3      | 0.2      | 65      | 0.38     | 0.061   |
| L3600N 7362.5E | Soil    |      |     | 0.6      | 21.9     | 11.0     | 190      | <0.1     | 34.4     | 9.1      | 792      | 2.02     | 11.3     | 1.0     | 1.3      | 2.6      | 54       | 1.7      | 0.3      | 0.2      | 74      | 0.58     | 0.122   |
| L3600N 7375E   | Soil    |      |     | 1.1      | 27.2     | 11.6     | 151      | <0.1     | 31.0     | 10.1     | 465      | 2.17     | 12.1     | 0.9     | 0.9      | 2.6      | 25       | 0.6      | 0.4      | 0.2      | 70      | 0.35     | 0.048   |
| L3600N 7387.5E | Soil    |      |     | 0.8      | 25.4     | 17.2     | 131      | <0.1     | 27.8     | 9.2      | 817      | 1.99     | 12.3     | 0.9     | 1.2      | 2.5      | 30       | 1.2      | 0.4      | 0.3      | 66      | 0.50     | 0.044   |
| L3600N 7400E   | Soil    |      |     | 0.8      | 27.9     | 17.9     | 118      | <0.1     | 26.5     | 9.7      | 694      | 1.99     | 13.2     | 1.0     | 4.2      | 2.5      | 27       | 0.9      | 0.4      | 0.3      | 64      | 0.56     | 0.052   |
| L3600N 7412.5E | Soil    |      |     | 0.8      | 26.2     | 19.0     | 130      | <0.1     | 25.5     | 9.2      | 869      | 1.94     | 14.3     | 1.0     | 1.0      | 2.5      | 27       | 1.1      | 0.4      | 0.3      | 67      | 0.55     | 0.050   |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3650N 7550E   | Soil  | 6     | 21    | 0.35  | 121   | 0.071 | 4     | 1.26  | 0.027 | 0.08  | <0.1  | <0.01 | 1.9   | 0.2   | <0.05 | 3     | <0.5  |
| L3650N 7562.5E | Soil  | 10    | 32    | 0.60  | 116   | 0.100 | 3     | 1.97  | 0.023 | 0.15  | 0.2   | 0.02  | 3.0   | 0.2   | <0.05 | 5     | <0.5  |
| L3650N 7575E   | Soil  | 8     | 48    | 1.22  | 192   | 0.071 | 5     | 1.87  | 0.025 | 0.10  | 0.1   | 0.03  | 2.7   | 0.4   | <0.05 | 5     | 2.0   |
| L3650N 7587.5E | Soil  | 5     | 22    | 0.59  | 119   | 0.026 | 11    | 1.28  | 0.022 | 0.08  | <0.1  | 0.03  | 1.2   | 0.2   | 0.09  | 4     | 1.3   |
| L3650N 7600E   | Soil  | 12    | 45    | 1.28  | 150   | 0.096 | 6     | 2.49  | 0.027 | 0.13  | 0.2   | 0.03  | 4.3   | 0.4   | <0.05 | 6     | 2.2   |
| L3650N 7612.5E | Soil  | 14    | 44    | 0.88  | 138   | 0.118 | 4     | 2.05  | 0.036 | 0.28  | 0.2   | 0.02  | 4.3   | 0.4   | <0.05 | 6     | 0.9   |
| L3650N 7625E   | Soil  | 11    | 30    | 0.59  | 103   | 0.088 | 4     | 1.57  | 0.031 | 0.19  | 0.1   | 0.01  | 2.8   | 0.3   | <0.05 | 4     | 0.6   |
| L3650N 7637.5E | Soil  | 17    | 40    | 0.61  | 136   | 0.119 | 3     | 1.95  | 0.030 | 0.26  | 0.2   | 0.02  | 3.6   | 0.3   | <0.05 | 6     | <0.5  |
| L3600N 7150E   | Soil  | 10    | 25    | 0.46  | 81    | 0.087 | 2     | 2.16  | 0.075 | 0.09  | 0.3   | 0.01  | 3.1   | 0.2   | <0.05 | 6     | 0.9   |
| L3600N 7162.5E | Soil  | 9     | 26    | 0.51  | 115   | 0.080 | 3     | 1.88  | 0.042 | 0.20  | 0.2   | 0.02  | 4.9   | 0.2   | <0.05 | 5     | 0.7   |
| L3600N 7175E   | Soil  | 11    | 31    | 0.53  | 94    | 0.078 | 2     | 1.98  | 0.039 | 0.18  | 0.3   | 0.02  | 6.3   | 0.2   | <0.05 | 6     | 0.8   |
| L3600N 7187.5E | Soil  | 8     | 23    | 0.48  | 102   | 0.061 | 1     | 1.80  | 0.041 | 0.14  | 0.2   | 0.01  | 4.6   | 0.2   | <0.05 | 5     | 0.6   |
| L3600N 7200E   | Soil  | 13    | 37    | 0.64  | 124   | 0.098 | 3     | 2.18  | 0.033 | 0.23  | 0.2   | 0.02  | 6.0   | 0.2   | <0.05 | 7     | 0.6   |
| L3600N 7212.5E | Soil  | 6     | 18    | 0.38  | 155   | 0.054 | 3     | 1.26  | 0.021 | 0.10  | 0.2   | 0.04  | 3.5   | 0.1   | <0.05 | 4     | <0.5  |
| L3600N 7225E   | Soil  | 6     | 18    | 0.36  | 114   | 0.082 | 2     | 1.38  | 0.023 | 0.12  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 4     | <0.5  |
| L3600N 7237.5E | Soil  | 6     | 17    | 0.29  | 196   | 0.077 | 1     | 1.45  | 0.023 | 0.11  | 0.1   | 0.02  | 2.2   | <0.1  | <0.05 | 4     | <0.5  |
| L3600N 7250E   | Soil  | 10    | 29    | 0.41  | 144   | 0.097 | 2     | 1.52  | 0.026 | 0.15  | 0.2   | <0.01 | 2.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3600N 7262.5E | Soil  | 5     | 18    | 0.23  | 137   | 0.074 | 1     | 1.16  | 0.022 | 0.10  | 0.1   | 0.02  | 1.6   | <0.1  | <0.05 | 4     | <0.5  |
| L3600N 7275E   | Soil  | 7     | 20    | 0.26  | 122   | 0.090 | 2     | 1.45  | 0.025 | 0.11  | 0.1   | 0.03  | 2.1   | 0.1   | <0.05 | 4     | <0.5  |
| L3600N 7287.5E | Soil  | 10    | 22    | 0.30  | 122   | 0.096 | 2     | 1.78  | 0.022 | 0.11  | 0.2   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3600N 7300E   | Soil  | 12    | 21    | 0.29  | 200   | 0.107 | 2     | 2.28  | 0.021 | 0.12  | 0.2   | 0.02  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3600N 7312.5E | Soil  | 11    | 27    | 0.37  | 110   | 0.098 | <1    | 1.30  | 0.020 | 0.15  | 0.2   | <0.01 | 2.6   | 0.1   | <0.05 | 4     | <0.5  |
| L3600N 7325E   | Soil  | 8     | 21    | 0.33  | 157   | 0.093 | 2     | 1.64  | 0.021 | 0.12  | 0.1   | 0.01  | 2.3   | 0.1   | <0.05 | 5     | <0.5  |
| L3600N 7337.5E | Soil  | 9     | 28    | 0.45  | 178   | 0.112 | 1     | 2.13  | 0.019 | 0.14  | 0.2   | 0.02  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3600N 7350E   | Soil  | 10    | 39    | 0.65  | 146   | 0.116 | 2     | 2.22  | 0.016 | 0.10  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 7     | <0.5  |
| L3600N 7362.5E | Soil  | 11    | 43    | 0.85  | 129   | 0.095 | 3     | 2.10  | 0.019 | 0.10  | 0.1   | 0.03  | 3.3   | 0.2   | <0.05 | 6     | 0.7   |
| L3600N 7375E   | Soil  | 11    | 37    | 0.90  | 96    | 0.113 | 2     | 2.34  | 0.016 | 0.10  | 0.1   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | 0.8   |
| L3600N 7387.5E | Soil  | 11    | 34    | 0.99  | 132   | 0.104 | 2     | 2.17  | 0.020 | 0.11  | 0.2   | 0.03  | 3.0   | 0.2   | <0.05 | 6     | 0.8   |
| L3600N 7400E   | Soil  | 12    | 33    | 0.90  | 122   | 0.108 | 2     | 2.23  | 0.020 | 0.12  | 0.1   | 0.03  | 3.2   | 0.2   | <0.05 | 6     | 0.7   |
| L3600N 7412.5E | Soil  | 12    | 33    | 0.92  | 134   | 0.104 | 2     | 2.02  | 0.023 | 0.15  | 0.2   | 0.02  | 3.4   | 0.3   | <0.05 | 6     | 0.8   |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3600N 7425E   | Soil  | 0.5   | 26.2  | 9.5   | 119   | <0.1  | 16.2  | 6.2   | 688   | 1.34  | 18.4  | 0.6   | 0.9   | 1.5   | 26    | 1.3   | 0.3   | 0.2   | 39    | 0.41  | 0.103 |
| L3600N 7437.5E | Soil  | 0.8   | 25.3  | 17.5  | 133   | <0.1  | 25.7  | 9.5   | 720   | 1.98  | 20.4  | 0.9   | 1.6   | 2.9   | 74    | 1.6   | 0.6   | 0.3   | 55    | 0.68  | 0.068 |
| L3600N 7450E   | Soil  | 1.1   | 23.7  | 22.1  | 100   | 0.1   | 16.9  | 5.4   | 883   | 1.51  | 35.2  | 1.1   | 3.3   | 0.5   | 73    | 1.6   | 0.5   | 0.3   | 47    | 0.87  | 0.138 |
| L3600N 7462.5E | Soil  | 0.5   | 15.2  | 16.7  | 105   | <0.1  | 22.4  | 6.9   | 633   | 1.54  | 15.6  | 1.2   | 0.8   | 1.9   | 70    | 1.3   | 0.7   | 0.2   | 48    | 0.38  | 0.036 |
| L3600N 7475E   | Soil  | 1.0   | 27.6  | 11.8  | 104   | <0.1  | 28.4  | 9.0   | 325   | 1.90  | 26.9  | 0.6   | 15.6  | 2.5   | 27    | 0.3   | 0.6   | 0.4   | 47    | 0.28  | 0.057 |
| L3600N 7487.5E | Soil  | 0.6   | 19.6  | 8.5   | 233   | <0.1  | 24.5  | 8.2   | 552   | 1.79  | 11.0  | 0.4   | 0.5   | 2.5   | 19    | 0.8   | 0.2   | 0.2   | 43    | 0.22  | 0.096 |
| L3600N 7500E   | Soil  | 0.7   | 24.7  | 9.5   | 202   | 0.1   | 24.9  | 8.9   | 792   | 1.83  | 12.2  | 0.5   | 0.9   | 2.7   | 27    | 0.9   | 0.2   | 0.2   | 43    | 0.26  | 0.170 |
| L3600N 7512E   | Soil  | 0.8   | 44.9  | 12.1  | 201   | 0.1   | 35.0  | 13.1  | 1709  | 2.25  | 27.6  | 0.9   | 1.3   | 2.8   | 88    | 0.9   | 0.8   | 0.5   | 78    | 0.83  | 0.304 |
| L3600N 7525E   | Soil  | 0.7   | 27.8  | 10.1  | 115   | <0.1  | 30.8  | 12.1  | 432   | 2.13  | 15.9  | 0.5   | 1.0   | 3.0   | 20    | 0.2   | 0.3   | 0.2   | 57    | 0.25  | 0.059 |
| L3600N 7537.5E | Soil  | 0.6   | 48.3  | 34.0  | 139   | <0.1  | 31.4  | 12.1  | 952   | 1.67  | 30.0  | 0.4   | 4.0   | 1.9   | 25    | 1.2   | 0.8   | 1.1   | 52    | 0.56  | 0.064 |
| L3600N 7550E   | Soil  | 0.8   | 37.9  | 12.6  | 173   | <0.1  | 49.7  | 15.8  | 571   | 2.41  | 30.7  | 0.6   | 2.3   | 2.6   | 29    | 0.5   | 0.6   | 1.0   | 71    | 0.51  | 0.056 |
| L3550N 7150E   | Soil  | 3.0   | 41.5  | 16.5  | 484   | <0.1  | 42.6  | 13.3  | 1137  | 2.58  | 35.5  | 0.6   | 2.2   | 2.1   | 39    | 2.7   | 0.7   | 0.9   | 55    | 0.47  | 0.119 |
| L3550N 7162.5E | Soil  | 0.4   | 18.6  | 5.1   | 76    | 0.1   | 3.4   | 4.8   | 681   | 0.91  | 5.0   | 0.1   | 1.8   | 0.2   | 25    | 1.0   | 0.2   | 0.2   | 22    | 0.30  | 0.101 |
| L3550N 7175E   | Soil  | 2.1   | 28.8  | 19.4  | 431   | <0.1  | 26.0  | 7.7   | 735   | 2.03  | 17.3  | 0.4   | 3.3   | 1.6   | 41    | 1.5   | 0.4   | 0.4   | 42    | 0.42  | 0.067 |
| L3550N 7187.5E | Soil  | 2.4   | 27.5  | 16.2  | 293   | <0.1  | 27.2  | 9.0   | 518   | 2.23  | 16.4  | 0.5   | 1.5   | 2.0   | 35    | 0.6   | 0.5   | 0.3   | 46    | 0.28  | 0.053 |
| L3550N 7200E   | Soil  | 2.1   | 62.7  | 12.7  | 943   | 0.1   | 19.6  | 7.4   | 510   | 1.84  | 15.3  | 0.5   | 1.3   | 2.7   | 29    | 2.1   | 0.4   | 0.3   | 36    | 0.29  | 0.138 |
| L3550N 7212.5E | Soil  | 3.3   | 19.6  | 9.1   | 348   | <0.1  | 12.1  | 4.9   | 640   | 1.22  | 10.4  | 0.4   | 0.9   | 1.7   | 26    | 1.3   | 0.4   | 0.3   | 27    | 0.28  | 0.082 |
| L3550N 7225E   | Soil  | 1.5   | 21.1  | 12.0  | 341   | 0.1   | 17.6  | 6.3   | 521   | 1.50  | 13.0  | 0.3   | 1.2   | 2.0   | 32    | 1.4   | 0.3   | 0.3   | 28    | 0.27  | 0.076 |
| L3550N 7237.5E | Soil  | 1.0   | 17.3  | 9.0   | 277   | <0.1  | 14.4  | 5.8   | 623   | 1.33  | 12.4  | 0.3   | 3.4   | 1.9   | 22    | 1.4   | 0.2   | 0.2   | 28    | 0.19  | 0.089 |
| L3550N 7250E   | Soil  | 1.3   | 22.5  | 8.5   | 325   | <0.1  | 20.2  | 7.5   | 558   | 1.74  | 12.5  | 0.4   | 0.9   | 2.5   | 25    | 1.2   | 0.2   | 0.2   | 36    | 0.27  | 0.102 |
| L3550N 7262.5E | Soil  | 0.8   | 21.5  | 8.2   | 212   | <0.1  | 17.0  | 6.9   | 421   | 1.66  | 13.0  | 0.3   | 1.1   | 2.3   | 21    | 0.6   | 0.2   | 0.2   | 36    | 0.22  | 0.125 |
| L3550N 7275E   | Soil  | 0.9   | 17.4  | 9.3   | 228   | <0.1  | 18.7  | 7.2   | 485   | 1.81  | 9.6   | 0.4   | 2.1   | 2.8   | 25    | 0.8   | 0.3   | 0.2   | 37    | 0.29  | 0.099 |
| L3550N 7287.5E | Soil  | 0.8   | 16.3  | 8.7   | 217   | <0.1  | 16.2  | 6.5   | 515   | 1.66  | 10.5  | 0.4   | 0.6   | 2.5   | 28    | 0.7   | 0.2   | 0.2   | 36    | 0.31  | 0.121 |
| L3550N 7300E   | Soil  | 1.0   | 22.6  | 11.5  | 207   | <0.1  | 22.8  | 8.8   | 548   | 2.04  | 12.8  | 0.4   | 4.2   | 3.1   | 28    | 0.6   | 0.3   | 0.2   | 41    | 0.32  | 0.110 |
| L3550N 7312.5E | Soil  | 0.9   | 24.1  | 10.8  | 214   | <0.1  | 21.9  | 7.8   | 461   | 1.88  | 14.2  | 0.5   | 6.2   | 2.8   | 26    | 0.6   | 0.2   | 0.2   | 40    | 0.30  | 0.121 |
| L3550N 7325E   | Soil  | 0.9   | 26.4  | 13.2  | 234   | <0.1  | 20.8  | 7.7   | 471   | 1.82  | 17.7  | 0.5   | 0.9   | 2.6   | 32    | 1.1   | 0.3   | 0.2   | 39    | 0.37  | 0.152 |
| L3550N 7337E   | Soil  | 1.1   | 23.0  | 10.2  | 227   | <0.1  | 23.4  | 8.0   | 336   | 1.91  | 10.9  | 0.5   | 0.9   | 3.0   | 27    | 0.6   | 0.2   | 0.2   | 39    | 0.24  | 0.195 |
| L3550N 7350E   | Soil  | 0.9   | 19.7  | 8.3   | 173   | <0.1  | 20.3  | 6.4   | 415   | 1.85  | 9.3   | 0.5   | 0.5   | 2.5   | 24    | 0.4   | 0.3   | 0.2   | 48    | 0.29  | 0.045 |
| L3550N 7362.5E | Soil  | 0.8   | 23.4  | 11.8  | 140   | <0.1  | 24.3  | 8.1   | 713   | 2.00  | 17.1  | 0.9   | 9.0   | 2.8   | 38    | 0.9   | 0.4   | 0.2   | 61    | 0.60  | 0.077 |
| L3550N 7375E   | Soil  | 0.8   | 29.2  | 12.2  | 114   | <0.1  | 24.0  | 8.8   | 676   | 2.32  | 12.6  | 0.7   | 3.1   | 3.7   | 24    | 0.6   | 0.3   | 0.2   | 57    | 0.34  | 0.089 |

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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| L3600N 7425E   | Soil  | 6     | 19    | 0.78  | 92    | 0.078 | 3     | 1.34  | 0.028 | 0.09  | <0.1  | <0.01 | 1.8   | 0.2   | <0.05 | 4     | 0.7  |
| L3600N 7437.5E | Soil  | 13    | 29    | 0.43  | 115   | 0.114 | 3     | 2.15  | 0.026 | 0.15  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 6     | 1.0  |
| L3600N 7450E   | Soil  | 10    | 20    | 0.35  | 98    | 0.039 | 2     | 1.45  | 0.024 | 0.08  | <0.1  | 0.04  | 2.0   | 0.4   | 0.07  | 4     | 1.2  |
| L3600N 7462.5E | Soil  | 8     | 21    | 0.33  | 88    | 0.104 | 2     | 1.62  | 0.034 | 0.07  | 0.2   | 0.02  | 2.1   | 0.2   | <0.05 | 4     | 0.6  |
| L3600N 7475E   | Soil  | 7     | 26    | 0.37  | 134   | 0.126 | 2     | 2.28  | 0.023 | 0.07  | 0.2   | 0.03  | 2.4   | 0.2   | <0.05 | 6     | <0.5 |
| L3600N 7487.5E | Soil  | 7     | 27    | 0.35  | 185   | 0.102 | 1     | 1.68  | 0.019 | 0.11  | 0.2   | 0.01  | 2.2   | 0.1   | <0.05 | 5     | <0.5 |
| L3600N 7500E   | Soil  | 9     | 28    | 0.35  | 262   | 0.102 | 2     | 1.78  | 0.018 | 0.14  | 0.2   | 0.02  | 2.4   | 0.2   | <0.05 | 5     | <0.5 |
| L3600N 7512E   | Soil  | 11    | 53    | 0.62  | 285   | 0.098 | 4     | 2.10  | 0.021 | 0.10  | 0.2   | 0.04  | 3.7   | 0.2   | <0.05 | 5     | 1.0  |
| L3600N 7525E   | Soil  | 9     | 38    | 0.53  | 132   | 0.118 | 1     | 1.85  | 0.015 | 0.13  | 0.2   | <0.01 | 2.8   | 0.1   | <0.05 | 6     | <0.5 |
| L3600N 7537.5E | Soil  | 7     | 30    | 0.65  | 136   | 0.098 | 2     | 1.60  | 0.021 | 0.11  | 0.2   | 0.03  | 2.1   | 0.3   | <0.05 | 5     | <0.5 |
| L3600N 7550E   | Soil  | 9     | 42    | 1.03  | 123   | 0.105 | 3     | 2.13  | 0.021 | 0.23  | 0.2   | 0.02  | 3.2   | 0.2   | <0.05 | 6     | 0.7  |
| L3550N 7150E   | Soil  | 9     | 24    | 0.46  | 129   | 0.077 | 2     | 2.07  | 0.023 | 0.13  | 0.3   | 0.02  | 3.9   | 0.2   | <0.05 | 6     | 0.7  |
| L3550N 7162.5E | Soil  | 3     | 4     | 0.12  | 105   | 0.040 | 1     | 0.53  | 0.030 | 0.05  | <0.1  | 0.02  | 1.3   | <0.1  | <0.05 | 2     | 0.6  |
| L3550N 7175E   | Soil  | 5     | 18    | 0.40  | 173   | 0.065 | 2     | 1.45  | 0.035 | 0.20  | 0.1   | 0.02  | 3.0   | 0.1   | <0.05 | 5     | <0.5 |
| L3550N 7187.5E | Soil  | 7     | 20    | 0.40  | 151   | 0.072 | 3     | 1.77  | 0.031 | 0.19  | 0.1   | 0.01  | 3.2   | 0.1   | <0.05 | 6     | <0.5 |
| L3550N 7200E   | Soil  | 9     | 19    | 0.33  | 116   | 0.086 | 2     | 2.01  | 0.025 | 0.13  | 0.2   | 0.01  | 2.4   | 0.1   | <0.05 | 5     | <0.5 |
| L3550N 7212.5E | Soil  | 6     | 12    | 0.23  | 118   | 0.064 | 3     | 1.25  | 0.021 | 0.09  | 0.3   | 0.01  | 1.6   | <0.1  | <0.05 | 4     | <0.5 |
| L3550N 7225E   | Soil  | 6     | 17    | 0.28  | 210   | 0.067 | 3     | 1.41  | 0.020 | 0.11  | 0.3   | 0.02  | 2.1   | <0.1  | <0.05 | 4     | <0.5 |
| L3550N 7237.5E | Soil  | 6     | 17    | 0.25  | 196   | 0.069 | 3     | 1.14  | 0.019 | 0.12  | 0.2   | 0.01  | 1.6   | <0.1  | <0.05 | 4     | <0.5 |
| L3550N 7250E   | Soil  | 7     | 23    | 0.33  | 168   | 0.080 | 3     | 1.43  | 0.023 | 0.16  | 0.1   | <0.01 | 2.0   | 0.1   | <0.05 | 5     | <0.5 |
| L3550N 7262.5E | Soil  | 6     | 20    | 0.28  | 157   | 0.077 | 1     | 1.35  | 0.025 | 0.13  | 0.2   | <0.01 | 1.8   | <0.1  | <0.05 | 4     | <0.5 |
| L3550N 7275E   | Soil  | 8     | 24    | 0.32  | 177   | 0.079 | 3     | 1.41  | 0.021 | 0.15  | 0.2   | <0.01 | 2.3   | <0.1  | <0.05 | 5     | <0.5 |
| L3550N 7287.5E | Soil  | 9     | 22    | 0.30  | 163   | 0.076 | 2     | 1.39  | 0.021 | 0.13  | 0.2   | 0.01  | 2.0   | <0.1  | <0.05 | 5     | <0.5 |
| L3550N 7300E   | Soil  | 9     | 26    | 0.41  | 187   | 0.094 | 2     | 1.80  | 0.021 | 0.18  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L3550N 7312.5E | Soil  | 9     | 26    | 0.38  | 139   | 0.083 | 1     | 1.60  | 0.020 | 0.15  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L3550N 7325E   | Soil  | 10    | 25    | 0.39  | 180   | 0.087 | 2     | 1.77  | 0.021 | 0.16  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5 |
| L3550N 7337E   | Soil  | 9     | 26    | 0.38  | 177   | 0.092 | <1    | 1.85  | 0.019 | 0.12  | 0.2   | 0.01  | 2.6   | 0.1   | <0.05 | 6     | <0.5 |
| L3550N 7350E   | Soil  | 9     | 29    | 0.48  | 139   | 0.092 | 2     | 1.45  | 0.018 | 0.22  | 0.2   | <0.01 | 2.5   | 0.2   | <0.05 | 5     | 0.5  |
| L3550N 7362.5E | Soil  | 14    | 33    | 0.68  | 154   | 0.081 | 2     | 2.04  | 0.026 | 0.14  | 0.1   | 0.02  | 3.3   | 0.1   | <0.05 | 6     | 1.2  |
| L3550N 7375E   | Soil  | 18    | 35    | 0.55  | 132   | 0.102 | 1     | 2.20  | 0.018 | 0.15  | 0.2   | 0.01  | 3.2   | 0.2   | <0.05 | 7     | <0.5 |

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Report Date: January 15, 2008

Page: 9 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method Analyte | Unit | MDL | 1DX15 Mo | 1DX15 Cu | 1DX15 Pb | 1DX15 Zn | 1DX15 Ag | 1DX15 Ni | 1DX15 Co | 1DX15 Mn | 1DX15 Fe | 1DX15 As | 1DX15 U | 1DX15 Au | 1DX15 Th | 1DX15 Sr | 1DX15 Cd | 1DX15 Sb | 1DX15 Bi | 1DX15 V | 1DX15 Ca | 1DX15 P |
|----------------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|---------|----------|---------|
|                |      |     | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm     | ppb      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm     | %        | %       |
|                |      |     | 0.1      | 0.1      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 1        | 0.01     | 0.5      | 0.1     | 0.5      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 2       | 0.01     | 0.001   |
| L3550N 7387.5E | Soil |     | 1.1      | 26.0     | 15.4     | 148      | <0.1     | 27.7     | 9.8      | 736      | 2.53     | 17.7     | 0.8     | 13.3     | 3.6      | 28       | 0.5      | 0.3      | 0.3      | 55      | 0.32     | 0.146   |
| L3550N 7400E   | Soil |     | 1.1      | 21.5     | 10.5     | 127      | 0.1      | 21.3     | 8.0      | 769      | 2.00     | 14.6     | 0.5     | 4.7      | 2.3      | 24       | 0.5      | 0.3      | 0.2      | 43      | 0.24     | 0.152   |
| L3550N 7412.5E | Soil |     | 1.5      | 25.3     | 18.2     | 163      | <0.1     | 31.6     | 9.2      | 712      | 2.33     | 26.2     | 1.5     | 3.2      | 3.2      | 54       | 1.0      | 0.7      | 0.5      | 56      | 0.44     | 0.133   |
| L3550N 7425E   | Soil |     | 0.9      | 25.3     | 16.8     | 158      | 0.2      | 33.4     | 9.5      | 982      | 2.22     | 33.5     | 2.6     | 10.5     | 2.3      | 182      | 2.2      | 2.4      | 0.3      | 58      | 1.13     | 0.234   |
| L3550N 7437.5E | Soil |     | 0.9      | 25.2     | 21.0     | 144      | 0.3      | 24.1     | 7.2      | 1031     | 2.00     | 28.1     | 1.3     | 3.0      | 1.4      | 169      | 2.2      | 1.0      | 0.3      | 52      | 1.07     | 0.211   |
| L3550N 7450E   | Soil |     | 0.8      | 20.6     | 26.3     | 141      | 0.3      | 18.0     | 5.2      | 943      | 1.43     | 16.7     | 1.2     | 2.4      | 0.8      | 430      | 3.2      | 1.3      | 0.4      | 46      | 4.51     | 0.209   |
| L3550N 7462.5E | Soil |     | 0.8      | 29.9     | 64.5     | 272      | 0.3      | 29.1     | 10.4     | 1214     | 1.86     | 34.1     | 1.1     | 2.0      | 1.8      | 49       | 2.5      | 1.7      | 1.7      | 47      | 0.52     | 0.084   |
| L3550N 7475E   | Soil |     | 0.8      | 27.3     | 17.2     | 118      | <0.1     | 24.4     | 9.3      | 620      | 1.94     | 14.7     | 0.6     | 1.6      | 2.7      | 31       | 0.7      | 0.4      | 0.3      | 47      | 0.30     | 0.068   |
| L3550N 7487.5E | Soil |     | 0.7      | 21.7     | 13.6     | 114      | <0.1     | 22.1     | 8.5      | 601      | 1.90     | 18.8     | 0.4     | 2.6      | 2.4      | 22       | 0.4      | 0.4      | 0.3      | 44      | 0.25     | 0.114   |
| L3550N 7500E   | Soil |     | 1.1      | 25.5     | 13.2     | 126      | <0.1     | 29.2     | 10.2     | 660      | 1.99     | 24.7     | 0.6     | 1.9      | 2.7      | 31       | 0.6      | 0.4      | 0.3      | 44      | 0.35     | 0.094   |
| L3550N 7512.5E | Soil |     | 1.1      | 33.0     | 17.6     | 105      | <0.1     | 36.6     | 12.7     | 811      | 2.22     | 26.1     | 0.6     | 1.7      | 2.8      | 31       | 0.5      | 0.7      | 0.4      | 51      | 0.48     | 0.059   |
| L3550N 7525E   | Soil |     | 1.0      | 17.9     | 10.4     | 108      | <0.1     | 20.4     | 6.8      | 1470     | 1.50     | 20.4     | 1.0     | 1.2      | 1.2      | 44       | 1.0      | 0.6      | 0.2      | 40      | 1.23     | 0.160   |
| L3550N 7537.5E | Soil |     | 0.8      | 26.2     | 26.0     | 92       | 0.1      | 9.3      | 4.0      | 1164     | 1.15     | 16.2     | 0.8     | 3.1      | 0.4      | 44       | 1.1      | 1.1      | 0.4      | 30      | 1.55     | 0.342   |
| L3500N 7150E   | Soil |     | 1.9      | 25.3     | 10.2     | 188      | 0.1      | 18.6     | 8.9      | 726      | 2.04     | 16.6     | 0.5     | 225.0    | 1.9      | 25       | 0.9      | 0.4      | 0.3      | 47      | 0.29     | 0.055   |
| L3500N 7162.5E | Soil |     | 2.6      | 45.2     | 12.2     | 236      | 0.2      | 34.9     | 11.8     | 566      | 2.81     | 21.9     | 0.8     | 3.0      | 3.6      | 29       | 0.8      | 0.4      | 0.3      | 66      | 0.35     | 0.056   |
| L3500N 7175E   | Soil |     | 1.9      | 27.7     | 14.5     | 235      | <0.1     | 23.0     | 7.8      | 632      | 1.93     | 14.1     | 0.5     | 1.3      | 2.9      | 34       | 0.7      | 0.3      | 0.3      | 39      | 0.33     | 0.100   |
| L3500N 7187.5E | Soil |     | 1.8      | 126.0    | 9.2      | 3593     | <0.1     | 17.3     | 7.2      | 604      | 1.63     | 11.1     | 0.7     | 7.7      | 2.7      | 35       | 6.9      | 0.2      | 0.3      | 33      | 0.31     | 0.190   |
| L3500N 7200E   | Soil |     | 1.6      | 61.0     | 11.1     | 3081     | 0.1      | 16.3     | 6.3      | 558      | 1.53     | 11.1     | 0.7     | 3.6      | 2.5      | 29       | 5.0      | 0.3      | 0.3      | 32      | 0.31     | 0.105   |
| L3500N 7212.5E | Soil |     | 1.5      | 44.4     | 14.2     | 554      | 0.1      | 23.7     | 7.9      | 369      | 1.75     | 16.5     | 0.5     | 2.1      | 2.5      | 31       | 1.8      | 0.3      | 0.2      | 35      | 0.29     | 0.064   |
| L3500N 7225E   | Soil |     | 0.9      | 20.1     | 8.0      | 184      | <0.1     | 16.7     | 6.6      | 395      | 1.56     | 14.7     | 0.4     | 2.5      | 2.3      | 21       | 0.9      | 0.2      | 0.2      | 34      | 0.21     | 0.055   |
| L3500N 7237E   | Soil |     | 1.1      | 26.2     | 8.5      | 161      | <0.1     | 20.9     | 7.5      | 384      | 1.88     | 21.9     | 0.5     | 2.4      | 3.2      | 30       | 0.7      | 0.3      | 0.2      | 39      | 0.29     | 0.058   |
| L3500N 7250E   | Soil |     | 0.9      | 45.0     | 9.2      | 121      | <0.1     | 23.9     | 8.2      | 324      | 2.17     | 25.6     | 0.6     | 3.0      | 4.0      | 36       | 0.4      | 0.5      | 0.3      | 51      | 0.36     | 0.033   |
| L3500N 7262.5E | Soil |     | 1.0      | 20.9     | 8.8      | 174      | <0.1     | 18.1     | 7.7      | 709      | 1.81     | 14.0     | 0.5     | 3.6      | 2.6      | 31       | 0.7      | 0.3      | 0.3      | 33      | 0.30     | 0.104   |
| L3500N 7275E   | Soil |     | 0.9      | 20.6     | 7.7      | 152      | <0.1     | 16.4     | 6.5      | 455      | 1.52     | 14.2     | 0.4     | 2.2      | 2.4      | 21       | 0.5      | 0.3      | 0.2      | 31      | 0.20     | 0.094   |
| L3500N 7287.5E | Soil |     | 0.9      | 20.8     | 8.9      | 162      | 0.1      | 18.5     | 6.6      | 363      | 1.64     | 13.9     | 0.5     | 2.3      | 2.9      | 40       | 0.6      | 0.3      | 0.2      | 34      | 0.39     | 0.190   |
| L3500N 7300E   | Soil |     | 0.5      | 15.2     | 7.4      | 153      | <0.1     | 13.6     | 5.2      | 620      | 1.35     | 17.3     | 0.2     | 2.2      | 1.9      | 22       | 0.5      | 0.2      | 0.2      | 28      | 0.23     | 0.110   |
| L3500N 7312.5E | Soil |     | 0.6      | 20.0     | 8.9      | 202      | <0.1     | 19.6     | 6.4      | 331      | 1.70     | 11.1     | 0.5     | 1.8      | 2.9      | 22       | 0.6      | 0.2      | 0.2      | 35      | 0.24     | 0.113   |
| L3500N 7325E   | Soil |     | 0.9      | 23.5     | 9.7      | 213      | <0.1     | 20.7     | 7.7      | 461      | 1.87     | 14.9     | 0.5     | 2.0      | 3.2      | 24       | 0.7      | 0.4      | 0.2      | 36      | 0.26     | 0.117   |
| L3500N 7337.5E | Soil |     | 0.7      | 25.2     | 23.0     | 159      | <0.1     | 17.4     | 6.8      | 653      | 1.65     | 12.7     | 0.6     | 3.5      | 2.5      | 34       | 1.1      | 0.4      | 0.5      | 35      | 0.35     | 0.095   |
| L3500N 7350E   | Soil |     | 0.9      | 16.0     | 6.8      | 109      | <0.1     | 12.0     | 5.0      | 489      | 1.34     | 20.3     | 0.3     | 1.5      | 1.7      | 21       | 0.6      | 0.3      | 0.3      | 29      | 0.26     | 0.084   |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3550N 7387.5E | Soil  | 16    | 31    | 0.46  | 159   | 0.116 | 2     | 2.71  | 0.014 | 0.15  | 0.1   | 0.01  | 2.8   | 0.2   | <0.05 | 8     | <0.5  |
| L3550N 7400E   | Soil  | 10    | 24    | 0.35  | 163   | 0.095 | 2     | 2.11  | 0.019 | 0.11  | 0.2   | 0.02  | 2.0   | 0.1   | <0.05 | 7     | <0.5  |
| L3550N 7412.5E | Soil  | 16    | 32    | 0.66  | 139   | 0.103 | 4     | 2.62  | 0.021 | 0.12  | 0.3   | 0.02  | 2.9   | 0.2   | <0.05 | 7     | 1.2   |
| L3550N 7425E   | Soil  | 18    | 33    | 0.71  | 170   | 0.080 | 6     | 2.47  | 0.036 | 0.13  | 0.2   | 0.02  | 3.9   | 0.2   | <0.05 | 6     | 2.4   |
| L3550N 7437.5E | Soil  | 14    | 26    | 0.59  | 142   | 0.065 | 5     | 2.17  | 0.035 | 0.12  | 0.1   | 0.02  | 3.0   | 0.2   | 0.06  | 6     | 1.6   |
| L3550N 7450E   | Soil  | 12    | 21    | 0.43  | 143   | 0.045 | 8     | 1.56  | 0.022 | 0.11  | <0.1  | 0.02  | 2.2   | 0.2   | 0.07  | 4     | 0.7   |
| L3550N 7462.5E | Soil  | 8     | 26    | 0.48  | 122   | 0.083 | 4     | 1.69  | 0.022 | 0.10  | 0.5   | 0.02  | 2.6   | 0.2   | <0.05 | 5     | 1.2   |
| L3550N 7475E   | Soil  | 9     | 31    | 0.43  | 137   | 0.100 | 2     | 1.76  | 0.017 | 0.13  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 6     | <0.5  |
| L3550N 7487.5E | Soil  | 7     | 26    | 0.37  | 158   | 0.092 | 1     | 1.66  | 0.019 | 0.12  | 0.1   | 0.01  | 2.0   | 0.1   | <0.05 | 5     | <0.5  |
| L3550N 7500E   | Soil  | 9     | 28    | 0.48  | 171   | 0.098 | 2     | 1.91  | 0.019 | 0.13  | 0.2   | 0.02  | 2.4   | 0.2   | <0.05 | 6     | <0.5  |
| L3550N 7512.5E | Soil  | 10    | 33    | 0.72  | 165   | 0.107 | 2     | 2.12  | 0.021 | 0.17  | 0.2   | 0.02  | 2.9   | 0.2   | <0.05 | 6     | 0.6   |
| L3550N 7525E   | Soil  | 7     | 24    | 0.84  | 176   | 0.069 | 2     | 1.76  | 0.039 | 0.07  | 0.1   | 0.01  | 2.0   | 0.2   | 0.06  | 4     | 0.8   |
| L3550N 7537.5E | Soil  | 6     | 14    | 0.39  | 132   | 0.043 | 7     | 1.35  | 0.036 | 0.07  | 0.1   | 0.04  | 1.2   | 0.2   | 0.09  | 3     | 0.6   |
| L3500N 7150E   | Soil  | 7     | 19    | 0.45  | 114   | 0.077 | 1     | 1.81  | 0.029 | 0.13  | 0.1   | 0.01  | 3.4   | 0.1   | <0.05 | 6     | <0.5  |
| L3500N 7162.5E | Soil  | 13    | 33    | 0.59  | 129   | 0.104 | 1     | 2.40  | 0.016 | 0.16  | 0.2   | 0.02  | 4.6   | 0.2   | <0.05 | 7     | <0.5  |
| L3500N 7175E   | Soil  | 10    | 21    | 0.34  | 197   | 0.089 | 3     | 2.05  | 0.024 | 0.13  | 0.1   | 0.01  | 2.8   | 0.1   | <0.05 | 6     | <0.5  |
| L3500N 7187.5E | Soil  | 14    | 18    | 0.27  | 164   | 0.058 | 2     | 1.26  | 0.025 | 0.09  | 0.2   | 0.02  | 2.2   | <0.1  | <0.05 | 4     | <0.5  |
| L3500N 7200E   | Soil  | 11    | 17    | 0.26  | 126   | 0.066 | 3     | 1.33  | 0.022 | 0.11  | 0.2   | 0.01  | 2.3   | <0.1  | <0.05 | 4     | <0.5  |
| L3500N 7212.5E | Soil  | 8     | 19    | 0.33  | 124   | 0.078 | 3     | 1.76  | 0.032 | 0.14  | 0.1   | 0.01  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7225E   | Soil  | 8     | 18    | 0.26  | 135   | 0.071 | 3     | 1.36  | 0.023 | 0.10  | 0.2   | 0.02  | 2.3   | <0.1  | <0.05 | 4     | <0.5  |
| L3500N 7237E   | Soil  | 10    | 23    | 0.34  | 130   | 0.090 | 3     | 1.84  | 0.026 | 0.14  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7250E   | Soil  | 15    | 29    | 0.43  | 151   | 0.101 | 3     | 1.79  | 0.027 | 0.21  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 6     | <0.5  |
| L3500N 7262.5E | Soil  | 10    | 20    | 0.31  | 182   | 0.071 | 2     | 1.52  | 0.025 | 0.16  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7275E   | Soil  | 8     | 18    | 0.29  | 124   | 0.072 | 2     | 1.39  | 0.025 | 0.12  | 0.1   | 0.01  | 2.2   | 0.1   | <0.05 | 4     | <0.5  |
| L3500N 7287.5E | Soil  | 11    | 20    | 0.31  | 151   | 0.075 | 3     | 1.54  | 0.023 | 0.15  | 0.2   | 0.01  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7300E   | Soil  | 7     | 15    | 0.19  | 153   | 0.059 | 2     | 1.07  | 0.028 | 0.11  | 0.1   | 0.02  | 1.7   | <0.1  | <0.05 | 3     | <0.5  |
| L3500N 7312.5E | Soil  | 10    | 22    | 0.31  | 184   | 0.071 | 2     | 1.45  | 0.024 | 0.13  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7325E   | Soil  | 11    | 24    | 0.33  | 210   | 0.077 | 3     | 1.56  | 0.022 | 0.15  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7337.5E | Soil  | 10    | 21    | 0.34  | 205   | 0.077 | 3     | 1.54  | 0.025 | 0.15  | 0.1   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7350E   | Soil  | 6     | 16    | 0.28  | 147   | 0.063 | 3     | 1.15  | 0.024 | 0.15  | 0.1   | 0.01  | 1.9   | 0.1   | <0.05 | 4     | <0.5  |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3500N 7362.5E | Soil  | 0.8   | 22.0  | 10.3  | 174   | <0.1  | 25.0  | 8.3   | 656   | 2.03  | 12.9  | 0.9   | 2.0   | 2.7   | 32    | 1.3   | 0.5   | 0.4   | 50    | 0.36  | 0.092 |
| L3500N 7375E   | Soil  | 0.4   | 19.4  | 10.5  | 141   | <0.1  | 13.2  | 4.9   | 998   | 1.21  | 7.3   | 0.5   | 2.6   | 1.7   | 39    | 2.6   | 0.4   | 0.4   | 28    | 0.48  | 0.114 |
| L3500N 7387.5E | Soil  | 0.3   | 17.5  | 12.9  | 118   | <0.1  | 15.3  | 6.0   | 750   | 1.44  | 12.9  | 0.8   | 2.2   | 2.0   | 35    | 1.0   | 0.6   | 2.0   | 35    | 0.50  | 0.071 |
| L3500N 7400E   | Soil  | 0.9   | 23.3  | 20.9  | 117   | 0.1   | 20.6  | 6.8   | 716   | 1.55  | 26.4  | 1.3   | 4.1   | 1.7   | 105   | 1.5   | 1.8   | 3.0   | 36    | 0.81  | 0.108 |
| L3500N 7412.5E | Soil  | 0.6   | 22.0  | 26.7  | 128   | 0.1   | 17.2  | 6.2   | 833   | 1.45  | 23.1  | 1.2   | 3.1   | 1.6   | 139   | 2.0   | 1.5   | 1.0   | 31    | 0.82  | 0.130 |
| L3500N 7425E   | Soil  | 0.6   | 27.6  | 28.6  | 140   | 0.2   | 16.9  | 5.8   | 1149  | 1.66  | 32.4  | 0.9   | 3.2   | 2.3   | 135   | 1.8   | 1.1   | 1.5   | 34    | 1.08  | 0.188 |
| L3500N 7437.5E | Soil  | 0.8   | 27.4  | 20.7  | 160   | <0.1  | 17.0  | 8.1   | 796   | 1.83  | 25.9  | 0.5   | 2.8   | 2.6   | 39    | 1.3   | 0.7   | 0.4   | 41    | 0.37  | 0.092 |
| L3500N 7450E   | Soil  | 0.7   | 24.3  | 15.5  | 154   | 0.1   | 17.2  | 8.5   | 1083  | 1.59  | 22.6  | 0.4   | 1.6   | 1.4   | 37    | 1.1   | 0.4   | 0.3   | 35    | 0.37  | 0.111 |
| L3500N 7462.5E | Soil  | 0.7   | 39.8  | 12.3  | 222   | <0.1  | 35.9  | 12.8  | 641   | 2.51  | 17.9  | 0.7   | 2.2   | 3.5   | 37    | 0.9   | 0.4   | 0.2   | 61    | 0.38  | 0.098 |
| L3500N 7475E   | Soil  | 0.8   | 48.6  | 11.7  | 122   | 0.1   | 37.8  | 10.6  | 474   | 2.38  | 25.6  | 0.9   | 3.5   | 3.9   | 36    | 0.6   | 0.5   | 0.2   | 58    | 0.41  | 0.086 |
| L3500N 7487.5E | Soil  | 0.7   | 32.5  | 38.3  | 152   | 0.1   | 10.2  | 3.9   | 1408  | 0.97  | 11.3  | 0.5   | 2.4   | 0.5   | 58    | 2.4   | 0.8   | 0.5   | 24    | 1.25  | 0.161 |
| L3500N 7500E   | Soil  | 0.8   | 21.0  | 7.2   | 62    | <0.1  | 15.2  | 5.8   | 784   | 1.37  | 14.7  | 0.6   | 1.5   | 0.4   | 40    | 0.6   | 0.5   | 0.2   | 31    | 0.74  | 0.119 |
| L3500N 7512.5E | Soil  | 1.5   | 21.9  | 13.4  | 85    | 0.2   | 18.0  | 6.2   | 842   | 1.58  | 48.2  | 0.9   | 2.2   | 0.5   | 111   | 0.8   | 1.5   | 0.2   | 32    | 2.74  | 0.447 |
| L3450N 7162.5E | Soil  | 2.7   | 766.0 | 11.9  | 2479  | 0.3   | 17.3  | 9.6   | 655   | 2.20  | 18.0  | 1.1   | 7.7   | 2.9   | 33    | 5.4   | 0.6   | 1.0   | 41    | 0.45  | 0.123 |
| L3450N 7175E   | Soil  | 0.9   | 28.8  | 10.7  | 316   | <0.1  | 19.4  | 7.4   | 336   | 1.79  | 17.7  | 0.3   | 2.5   | 2.5   | 26    | 0.7   | 0.3   | 0.2   | 39    | 0.25  | 0.037 |
| L3450N 7187.5E | Soil  | 0.7   | 21.3  | 11.6  | 210   | <0.1  | 19.5  | 7.7   | 276   | 1.78  | 15.9  | 0.4   | 0.8   | 2.7   | 26    | 0.5   | 0.2   | 0.2   | 39    | 0.24  | 0.025 |
| L3450N 7200E   | Soil  | 0.6   | 30.2  | 10.4  | 191   | <0.1  | 18.6  | 6.6   | 250   | 1.53  | 15.5  | 0.4   | 0.9   | 2.6   | 31    | 0.7   | 0.3   | 0.2   | 35    | 0.31  | 0.018 |
| L3450N 7212.5E | Soil  | 0.6   | 36.6  | 11.8  | 201   | 0.2   | 23.2  | 8.8   | 350   | 2.02  | 16.1  | 0.5   | 1.8   | 4.0   | 44    | 1.2   | 0.4   | 0.3   | 44    | 0.45  | 0.035 |
| L3450N 7225E   | Soil  | 0.8   | 25.9  | 11.9  | 173   | 0.1   | 22.2  | 8.1   | 442   | 1.93  | 12.4  | 0.9   | 1.8   | 3.7   | 42    | 1.0   | 0.5   | 0.4   | 40    | 0.37  | 0.078 |
| L3450N 7237.5E | Soil  | 0.6   | 19.6  | 11.5  | 154   | <0.1  | 18.9  | 7.3   | 515   | 1.93  | 10.8  | 1.0   | 2.2   | 3.2   | 35    | 1.0   | 0.5   | 0.4   | 42    | 0.34  | 0.082 |
| L3450N 7250E   | Soil  | 0.4   | 15.0  | 12.0  | 170   | 0.3   | 22.8  | 7.7   | 476   | 1.70  | 9.1   | 1.5   | 1.3   | 3.1   | 72    | 1.7   | 0.6   | 0.3   | 38    | 0.65  | 0.062 |
| L3450N 7262.5E | Soil  | 0.7   | 19.2  | 11.4  | 182   | 0.1   | 21.2  | 7.8   | 392   | 1.91  | 9.4   | 1.1   | 1.3   | 3.7   | 52    | 1.4   | 0.4   | 0.3   | 46    | 0.43  | 0.108 |
| L3450N 7275E   | Soil  | 0.9   | 19.7  | 11.2  | 144   | 0.2   | 19.9  | 8.1   | 420   | 2.07  | 12.3  | 0.8   | 1.8   | 3.6   | 34    | 0.5   | 0.4   | 0.2   | 46    | 0.31  | 0.091 |
| L3450N 7287.5E | Soil  | 0.8   | 23.3  | 11.3  | 133   | <0.1  | 20.7  | 8.6   | 432   | 2.07  | 14.2  | 0.7   | 1.7   | 3.9   | 31    | 0.4   | 0.3   | 0.3   | 46    | 0.28  | 0.084 |
| L3450N 7300E   | Soil  | 0.9   | 24.3  | 11.0  | 142   | 0.2   | 21.4  | 8.8   | 435   | 2.07  | 13.3  | 0.7   | 321.2 | 3.6   | 32    | 0.6   | 0.3   | 0.2   | 45    | 0.29  | 0.092 |
| L3450N 7337.5E | Soil  | 0.7   | 20.2  | 11.6  | 161   | <0.1  | 20.5  | 8.3   | 548   | 1.99  | 12.8  | 0.4   | 1.6   | 3.3   | 30    | 0.5   | 0.3   | 0.2   | 44    | 0.30  | 0.052 |
| L3450N 7350E   | Soil  | 0.7   | 32.4  | 13.9  | 229   | 0.2   | 25.3  | 10.1  | 548   | 2.25  | 20.0  | 0.7   | 6.1   | 3.8   | 30    | 1.1   | 0.4   | 0.3   | 48    | 0.28  | 0.146 |
| L3450N 7362.5E | Soil  | 0.9   | 25.2  | 13.0  | 157   | 0.1   | 21.6  | 8.9   | 529   | 2.10  | 16.7  | 0.6   | 2.7   | 3.2   | 43    | 0.6   | 0.4   | 0.3   | 46    | 0.38  | 0.073 |
| L3450N 7375E   | Soil  | 0.5   | 25.9  | 10.6  | 119   | <0.1  | 21.0  | 8.8   | 430   | 2.17  | 12.5  | 0.6   | 1.5   | 3.6   | 57    | 0.6   | 0.3   | 0.2   | 46    | 0.41  | 0.049 |
| L3450N 7387.5E | Soil  | 0.7   | 30.5  | 13.2  | 110   | <0.1  | 26.9  | 10.2  | 645   | 2.59  | 18.7  | 1.0   | 4.3   | 4.2   | 82    | 0.5   | 0.4   | 0.3   | 60    | 0.48  | 0.088 |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3500N 7362.5E | Soil  | 13    | 27    | 0.77  | 162   | 0.093 | 4     | 2.27  | 0.023 | 0.19  | 0.1   | 0.01  | 3.3   | 0.2   | <0.05 | 7     | 0.5   |
| L3500N 7375E   | Soil  | 7     | 14    | 0.45  | 191   | 0.061 | 4     | 1.16  | 0.022 | 0.13  | 0.1   | 0.02  | 1.9   | 0.2   | <0.05 | 4     | 0.5   |
| L3500N 7387.5E | Soil  | 9     | 18    | 1.04  | 124   | 0.080 | 5     | 1.71  | 0.026 | 0.13  | 0.2   | 0.01  | 2.2   | 0.2   | <0.05 | 5     | <0.5  |
| L3500N 7400E   | Soil  | 11    | 17    | 0.45  | 128   | 0.070 | 7     | 1.67  | 0.029 | 0.12  | 0.2   | 0.02  | 2.3   | 0.2   | <0.05 | 4     | 1.4   |
| L3500N 7412.5E | Soil  | 13    | 15    | 0.33  | 134   | 0.061 | 7     | 1.50  | 0.028 | 0.14  | 0.1   | 0.03  | 2.2   | 0.2   | <0.05 | 4     | 1.1   |
| L3500N 7425E   | Soil  | 18    | 17    | 0.39  | 153   | 0.062 | 5     | 1.51  | 0.024 | 0.17  | 0.1   | 0.04  | 2.8   | 0.2   | <0.05 | 4     | 1.2   |
| L3500N 7437.5E | Soil  | 12    | 25    | 0.40  | 142   | 0.080 | 1     | 1.56  | 0.015 | 0.14  | 0.2   | 0.02  | 2.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7450E   | Soil  | 7     | 22    | 0.32  | 157   | 0.073 | 2     | 1.38  | 0.018 | 0.11  | 0.1   | 0.02  | 1.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3500N 7462.5E | Soil  | 15    | 48    | 0.67  | 147   | 0.119 | 2     | 2.12  | 0.014 | 0.18  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 7     | <0.5  |
| L3500N 7475E   | Soil  | 16    | 38    | 0.52  | 145   | 0.113 | 2     | 2.11  | 0.015 | 0.20  | 0.2   | 0.01  | 3.9   | 0.2   | <0.05 | 7     | 0.5   |
| L3500N 7487.5E | Soil  | 5     | 14    | 0.32  | 182   | 0.038 | 4     | 0.85  | 0.018 | 0.08  | <0.1  | 0.05  | 1.3   | 0.2   | <0.05 | 2     | <0.5  |
| L3500N 7500E   | Soil  | 8     | 22    | 0.30  | 103   | 0.045 | 2     | 1.19  | 0.019 | 0.07  | 0.1   | 0.03  | 1.4   | 0.1   | <0.05 | 4     | <0.5  |
| L3500N 7512.5E | Soil  | 7     | 19    | 0.56  | 126   | 0.034 | 8     | 1.41  | 0.023 | 0.11  | 0.1   | 0.03  | 1.4   | 0.3   | 0.08  | 4     | 1.3   |
| L3450N 7162.5E | Soil  | 15    | 21    | 0.35  | 159   | 0.067 | 2     | 1.80  | 0.016 | 0.10  | 0.2   | 0.02  | 3.1   | <0.1  | <0.05 | 5     | 0.6   |
| L3450N 7175E   | Soil  | 7     | 22    | 0.32  | 126   | 0.081 | 2     | 1.55  | 0.028 | 0.12  | 0.2   | <0.01 | 2.2   | <0.1  | <0.05 | 5     | <0.5  |
| L3450N 7187.5E | Soil  | 9     | 23    | 0.32  | 150   | 0.097 | 3     | 1.64  | 0.031 | 0.13  | 0.1   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7200E   | Soil  | 10    | 19    | 0.27  | 103   | 0.093 | 4     | 1.54  | 0.036 | 0.08  | 0.1   | 0.01  | 2.6   | <0.1  | <0.05 | 4     | <0.5  |
| L3450N 7212.5E | Soil  | 15    | 25    | 0.38  | 149   | 0.111 | 4     | 1.96  | 0.041 | 0.15  | 0.2   | 0.02  | 3.6   | 0.2   | <0.05 | 6     | 0.6   |
| L3450N 7225E   | Soil  | 13    | 24    | 0.38  | 180   | 0.104 | 6     | 2.12  | 0.041 | 0.17  | 0.2   | 0.02  | 3.5   | 0.2   | <0.05 | 6     | <0.5  |
| L3450N 7237.5E | Soil  | 13    | 22    | 0.37  | 229   | 0.103 | 5     | 2.03  | 0.034 | 0.17  | 0.2   | <0.01 | 3.7   | 0.1   | <0.05 | 6     | <0.5  |
| L3450N 7250E   | Soil  | 13    | 21    | 0.34  | 257   | 0.095 | 8     | 1.93  | 0.031 | 0.12  | 0.1   | 0.02  | 3.1   | 0.1   | <0.05 | 5     | 1.2   |
| L3450N 7262.5E | Soil  | 14    | 25    | 0.44  | 192   | 0.106 | 5     | 2.28  | 0.036 | 0.13  | 0.2   | 0.02  | 4.0   | 0.2   | <0.05 | 6     | 0.6   |
| L3450N 7275E   | Soil  | 12    | 24    | 0.42  | 179   | 0.102 | 3     | 1.96  | 0.027 | 0.16  | 0.2   | 0.01  | 3.2   | 0.1   | <0.05 | 6     | 0.8   |
| L3450N 7287.5E | Soil  | 11    | 26    | 0.45  | 174   | 0.100 | 2     | 1.83  | 0.034 | 0.17  | 0.2   | 0.01  | 3.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7300E   | Soil  | 14    | 25    | 0.36  | 159   | 0.101 | 3     | 1.75  | 0.036 | 0.16  | 0.2   | 0.02  | 3.4   | 0.1   | <0.05 | 5     | 0.5   |
| L3450N 7337.5E | Soil  | 9     | 29    | 0.39  | 198   | 0.100 | 2     | 1.57  | 0.032 | 0.26  | 0.2   | 0.01  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7350E   | Soil  | 15    | 31    | 0.43  | 208   | 0.107 | 2     | 1.93  | 0.035 | 0.18  | 0.2   | 0.02  | 4.4   | 0.1   | <0.05 | 6     | <0.5  |
| L3450N 7362.5E | Soil  | 13    | 29    | 0.41  | 175   | 0.099 | 2     | 1.76  | 0.030 | 0.25  | 0.2   | 0.01  | 3.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7375E   | Soil  | 14    | 28    | 0.46  | 158   | 0.106 | 3     | 1.79  | 0.034 | 0.23  | 0.2   | <0.01 | 3.6   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7387.5E | Soil  | 21    | 33    | 0.55  | 194   | 0.118 | 2     | 2.14  | 0.027 | 0.23  | 0.2   | 0.01  | 4.3   | 0.2   | <0.05 | 6     | 0.8   |



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3450N 7400E   | Soil  | 0.5   | 33.6  | 14.7  | 121   | 0.2   | 26.4  | 10.2  | 711   | 2.35  | 25.6  | 0.9   | 2.7   | 3.5   | 154   | 1.5   | 0.6   | 0.3   | 57    | 0.83  | 0.148 |
| L3450N 7412E   | Soil  | 0.4   | 26.7  | 15.2  | 155   | 0.2   | 22.6  | 7.8   | 752   | 1.96  | 20.1  | 0.9   | 3.1   | 2.5   | 156   | 2.0   | 0.6   | 0.3   | 46    | 0.95  | 0.115 |
| L3450N 7425E   | Soil  | 0.8   | 34.3  | 18.6  | 137   | 0.2   | 19.9  | 9.4   | 814   | 2.11  | 26.5  | 0.7   | 2.6   | 3.9   | 46    | 1.7   | 0.6   | 0.5   | 48    | 0.38  | 0.152 |
| L3450N 7437.5E | Soil  | 1.0   | 38.5  | 14.4  | 129   | 0.1   | 25.5  | 10.5  | 694   | 2.25  | 16.5  | 0.8   | 5.2   | 3.2   | 48    | 1.1   | 0.4   | 0.3   | 55    | 0.46  | 0.106 |
| L3450N 7450E   | Soil  | 1.0   | 32.9  | 12.0  | 101   | <0.1  | 23.4  | 10.4  | 643   | 2.11  | 17.3  | 0.5   | 2.2   | 2.1   | 30    | 0.6   | 0.4   | 0.2   | 53    | 0.32  | 0.076 |
| L3450N 7462.5E | Soil  | 1.4   | 35.2  | 13.4  | 110   | 0.1   | 27.3  | 12.0  | 734   | 2.29  | 19.2  | 0.7   | 2.4   | 2.8   | 35    | 0.7   | 0.6   | 0.3   | 55    | 0.36  | 0.091 |
| L3450N 7475E   | Soil  | 0.9   | 32.0  | 17.8  | 130   | <0.1  | 28.8  | 12.8  | 794   | 2.57  | 22.7  | 0.8   | 2.2   | 3.2   | 32    | 0.8   | 0.8   | 0.5   | 66    | 0.37  | 0.082 |
| L3450N 7487.5E | Soil  | 1.2   | 59.0  | 20.7  | 120   | 0.1   | 50.1  | 23.6  | 969   | 2.54  | 30.9  | 0.9   | 2.6   | 1.3   | 31    | 0.8   | 1.3   | 2.5   | 61    | 0.35  | 0.107 |
| L3450N 7500E   | Soil  | 1.5   | 21.3  | 12.4  | 88    | 0.1   | 16.0  | 6.6   | 997   | 1.65  | 44.1  | 1.1   | 1.9   | 0.6   | 183   | 0.8   | 1.3   | 0.3   | 40    | 2.46  | 0.410 |
| L3450N 7512.5E | Soil  | 0.6   | 38.3  | 11.8  | 116   | <0.1  | 30.5  | 11.6  | 755   | 2.40  | 19.9  | 0.9   | 5.5   | 3.3   | 66    | 0.6   | 0.6   | 0.3   | 55    | 0.77  | 0.125 |



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Report Date: January 15, 2008

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## CERTIFICATE OF ANALYSIS

VAN07002985.1

| Method         | Analyte | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |         | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |
| Unit           |         | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            |         | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.05  | 1     | 0.5   |       |
| L3450N 7400E   | Soil    | 18    | 30    | 0.59  | 201   | 0.101 | 4     | 2.03  | 0.032 | 0.24  | 0.2   | 0.03  | 3.9   | 0.2   | <0.05 | 6     | 1.0   |
| L3450N 7412E   | Soil    | 15    | 24    | 0.42  | 165   | 0.084 | 3     | 1.72  | 0.035 | 0.17  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 5     | 1.7   |
| L3450N 7425E   | Soil    | 14    | 28    | 0.42  | 191   | 0.098 | 3     | 1.74  | 0.024 | 0.24  | 0.2   | 0.01  | 3.3   | 0.1   | <0.05 | 5     | <0.5  |
| L3450N 7437.5E | Soil    | 19    | 38    | 0.54  | 175   | 0.106 | 2     | 1.99  | 0.022 | 0.23  | 0.2   | 0.02  | 3.5   | 0.1   | <0.05 | 6     | <0.5  |
| L3450N 7450E   | Soil    | 13    | 36    | 0.48  | 147   | 0.095 | 1     | 1.62  | 0.022 | 0.22  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | <0.5  |
| L3450N 7462.5E | Soil    | 15    | 38    | 0.51  | 196   | 0.108 | 2     | 1.97  | 0.022 | 0.29  | 0.2   | 0.01  | 3.8   | 0.2   | <0.05 | 6     | <0.5  |
| L3450N 7475E   | Soil    | 17    | 39    | 0.57  | 197   | 0.117 | 2     | 2.20  | 0.019 | 0.24  | 0.2   | 0.01  | 4.2   | 0.2   | <0.05 | 7     | <0.5  |
| L3450N 7487.5E | Soil    | 14    | 35    | 0.69  | 150   | 0.081 | 2     | 2.32  | 0.018 | 0.17  | 0.2   | 0.02  | 2.7   | 0.2   | <0.05 | 7     | 0.9   |
| L3450N 7500E   | Soil    | 8     | 22    | 0.65  | 165   | 0.046 | 5     | 1.71  | 0.038 | 0.09  | 0.1   | 0.02  | 2.0   | 0.5   | 0.06  | 4     | 1.6   |
| L3450N 7512.5E | Soil    | 16    | 33    | 0.56  | 186   | 0.102 | 3     | 1.96  | 0.035 | 0.14  | 0.3   | 0.01  | 3.9   | 0.3   | <0.05 | 5     | 0.6   |

**QUALITY CONTROL REPORT**

**VAN07002985.1**

| Method             | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte            | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit               | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL                | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| Pulp Duplicates    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| L3800N 7475E       | Soil  | 0.6   | 18.9  | 9.0   | 102   | <0.1  | 24.1  | 6.9   | 248   | 1.66  | 14.9  | 0.4   | 1.5   | 2.0   | 23    | 0.6   | 0.2   | 0.2   | 46    | 0.30  | 0.115 |
| REP L3800N 7475E   | QC    | 0.6   | 18.7  | 9.2   | 101   | <0.1  | 24.8  | 6.9   | 255   | 1.65  | 15.0  | 0.4   | <0.5  | 2.0   | 23    | 0.7   | 0.2   | 0.2   | 45    | 0.29  | 0.115 |
| L3800N 7587.5E     | Soil  | 0.4   | 24.7  | 9.6   | 159   | 0.2   | 26.8  | 9.0   | 427   | 2.03  | 16.0  | 0.5   | 1.0   | 2.8   | 31    | 0.8   | 0.2   | 0.2   | 42    | 0.28  | 0.121 |
| REP L3800N 7587.5E | QC    | 0.5   | 24.9  | 9.9   | 160   | 0.1   | 27.9  | 9.0   | 440   | 2.08  | 16.0  | 0.5   | 1.5   | 2.8   | 31    | 0.9   | 0.2   | 0.2   | 43    | 0.27  | 0.122 |
| L3750N 7350E       | Soil  | 0.9   | 47.6  | 8.1   | 401   | 0.2   | 19.3  | 6.2   | 329   | 1.17  | 14.3  | 0.3   | 3.0   | 1.9   | 44    | 3.2   | 0.3   | 0.1   | 28    | 0.66  | 0.026 |
| REP L3750N 7350E   | QC    | 0.9   | 47.5  | 7.7   | 410   | 0.2   | 19.1  | 6.5   | 365   | 1.21  | 14.9  | 0.3   | 15.6  | 2.0   | 44    | 3.1   | 0.3   | 0.1   | 29    | 0.73  | 0.027 |
| L3750N 7487.5E     | Soil  | 0.5   | 11.7  | 9.2   | 97    | <0.1  | 11.7  | 4.8   | 460   | 1.06  | 15.8  | 0.2   | 1.1   | 1.0   | 11    | 0.3   | 0.2   | 0.2   | 33    | 0.14  | 0.070 |
| REP L3750N 7487.5E | QC    | 0.5   | 11.9  | 9.0   | 100   | <0.1  | 12.1  | 4.6   | 449   | 1.03  | 16.1  | 0.2   | 1.9   | 1.0   | 12    | 0.4   | 0.2   | 0.2   | 32    | 0.14  | 0.069 |
| L3700N 7262.5E     | Soil  | 8.1   | 60.5  | 35.4  | 1785  | 0.5   | 20.6  | 13.7  | 1130  | 3.10  | 30.4  | 0.9   | 2.3   | 2.6   | 30    | 5.5   | 0.7   | 1.9   | 55    | 0.50  | 0.070 |
| REP L3700N 7262.5E | QC    | 8.0   | 60.4  | 35.9  | 1795  | 0.5   | 20.8  | 14.4  | 1140  | 3.15  | 31.4  | 0.9   | 3.4   | 2.7   | 30    | 5.5   | 0.8   | 1.9   | 54    | 0.49  | 0.072 |
| L3700N 7450E       | Soil  | 0.8   | 21.0  | 16.0  | 131   | <0.1  | 21.4  | 7.2   | 780   | 1.79  | 18.5  | 0.9   | 1.1   | 1.7   | 35    | 1.3   | 0.4   | 0.3   | 55    | 0.49  | 0.129 |
| REP L3700N 7450E   | QC    | 0.9   | 21.0  | 15.7  | 125   | <0.1  | 20.8  | 7.3   | 783   | 1.78  | 18.4  | 0.9   | 2.2   | 1.7   | 34    | 1.4   | 0.4   | 0.3   | 55    | 0.47  | 0.125 |
| L3650N 7362.5E     | Soil  | 0.4   | 15.6  | 10.1  | 169   | 0.1   | 19.1  | 6.4   | 755   | 1.33  | 12.4  | 0.5   | 1.7   | 1.5   | 29    | 0.7   | 0.2   | 0.2   | 37    | 0.45  | 0.108 |
| REP L3650N 7362.5E | QC    | 0.5   | 16.0  | 9.9   | 166   | <0.1  | 18.2  | 6.3   | 758   | 1.29  | 12.8  | 0.4   | 0.9   | 1.4   | 29    | 0.5   | 0.2   | 0.2   | 36    | 0.47  | 0.110 |
| L3650N 7575E       | Soil  | 1.2   | 26.5  | 12.1  | 137   | 0.2   | 20.8  | 6.6   | 1459  | 1.82  | 21.1  | 0.8   | 1.8   | 1.5   | 74    | 1.3   | 0.7   | 0.2   | 81    | 2.54  | 0.232 |
| REP L3650N 7575E   | QC    | 1.3   | 25.9  | 12.5  | 137   | 0.2   | 22.1  | 7.1   | 1502  | 1.85  | 22.5  | 0.7   | 2.7   | 1.5   | 75    | 1.3   | 0.6   | 0.2   | 81    | 2.37  | 0.225 |
| L3600N 7187.5E     | Soil  | 3.7   | 29.1  | 10.9  | 182   | <0.1  | 28.2  | 12.4  | 995   | 2.58  | 26.6  | 0.7   | 1.3   | 1.7   | 31    | 1.2   | 0.8   | 0.2   | 64    | 0.42  | 0.102 |
| REP L3600N 7187.5E | QC    | 3.7   | 30.0  | 10.6  | 186   | <0.1  | 29.3  | 12.1  | 1020  | 2.58  | 26.1  | 0.7   | 1.7   | 1.6   | 29    | 1.3   | 0.8   | 0.2   | 63    | 0.41  | 0.101 |
| L3600N 7437.5E     | Soil  | 0.8   | 25.3  | 17.5  | 133   | <0.1  | 25.7  | 9.5   | 720   | 1.98  | 20.4  | 0.9   | 1.6   | 2.9   | 74    | 1.6   | 0.6   | 0.3   | 55    | 0.68  | 0.068 |
| REP L3600N 7437.5E | QC    | 0.8   | 23.7  | 16.4  | 129   | <0.1  | 24.1  | 9.5   | 703   | 1.99  | 19.7  | 0.9   | 1.4   | 2.9   | 75    | 1.4   | 0.6   | 0.2   | 56    | 0.69  | 0.069 |
| L3600N 7550E       | Soil  | 0.8   | 37.9  | 12.6  | 173   | <0.1  | 49.7  | 15.8  | 571   | 2.41  | 30.7  | 0.6   | 2.3   | 2.6   | 29    | 0.5   | 0.6   | 1.0   | 71    | 0.51  | 0.056 |
| REP L3600N 7550E   | QC    | 0.8   | 39.1  | 12.8  | 174   | <0.1  | 48.5  | 15.5  | 559   | 2.36  | 31.5  | 0.7   | 1.3   | 2.7   | 30    | 0.5   | 0.6   | 0.9   | 74    | 0.50  | 0.054 |
| L3550N 7437.5E     | Soil  | 0.9   | 25.2  | 21.0  | 144   | 0.3   | 24.1  | 7.2   | 1031  | 2.00  | 28.1  | 1.3   | 3.0   | 1.4   | 169   | 2.2   | 1.0   | 0.3   | 52    | 1.07  | 0.211 |
| REP L3550N 7437.5E | QC    | 0.9   | 24.5  | 21.7  | 148   | 0.3   | 22.0  | 7.0   | 1035  | 1.99  | 28.5  | 1.4   | 2.2   | 1.4   | 170   | 2.2   | 0.9   | 0.3   | 52    | 1.08  | 0.210 |
| L3500N 7450E       | Soil  | 0.7   | 24.3  | 15.5  | 154   | 0.1   | 17.2  | 8.5   | 1083  | 1.59  | 22.6  | 0.4   | 1.6   | 1.4   | 37    | 1.1   | 0.4   | 0.3   | 35    | 0.37  | 0.111 |
| REP L3500N 7450E   | QC    | 0.7   | 24.2  | 15.4  | 145   | 0.1   | 16.3  | 8.2   | 1061  | 1.61  | 22.3  | 0.4   | 2.4   | 1.4   | 38    | 1.2   | 0.4   | 0.3   | 35    | 0.38  | 0.112 |
| L3450N 7412E       | Soil  | 0.4   | 26.7  | 15.2  | 155   | 0.2   | 22.6  | 7.8   | 752   | 1.96  | 20.1  | 0.9   | 3.1   | 2.5   | 156   | 2.0   | 0.6   | 0.3   | 46    | 0.95  | 0.115 |
| REP L3450N 7412E   | QC    | 0.5   | 27.0  | 15.1  | 155   | 0.2   | 21.9  | 8.4   | 767   | 1.99  | 19.5  | 0.9   | 2.2   | 2.5   | 158   | 2.0   | 0.7   | 0.3   | 46    | 0.98  | 0.120 |

**QUALITY CONTROL REPORT**

**VAN07002985.1**

| Method             | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Analyte            | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |      |
| Unit               | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |      |
| MDL                | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |      |
| Pulp Duplicates    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| L3800N 7475E       | Soil  | 7     | 24    | 0.75  | 144   | 0.093 | 2     | 2.35  | 0.031 | 0.10  | 0.1   | 0.01  | 2.3   | 0.1   | <0.05 | 6     | <0.5 |
| REP L3800N 7475E   | QC    | 7     | 25    | 0.74  | 144   | 0.095 | 2     | 2.32  | 0.031 | 0.10  | 0.1   | 0.02  | 2.4   | 0.1   | <0.05 | 6     | <0.5 |
| L3800N 7587.5E     | Soil  | 9     | 30    | 0.42  | 142   | 0.114 | 2     | 2.27  | 0.033 | 0.13  | 0.1   | 0.02  | 2.5   | 0.2   | <0.05 | 6     | <0.5 |
| REP L3800N 7587.5E | QC    | 10    | 30    | 0.43  | 147   | 0.112 | 2     | 2.40  | 0.033 | 0.14  | 0.2   | 0.02  | 2.6   | 0.2   | <0.05 | 6     | <0.5 |
| L3750N 7350E       | Soil  | 14    | 19    | 0.23  | 91    | 0.073 | 2     | 1.50  | 0.026 | 0.05  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 3     | 0.8  |
| REP L3750N 7350E   | QC    | 15    | 20    | 0.24  | 94    | 0.076 | 4     | 1.52  | 0.029 | 0.06  | 0.2   | 0.03  | 2.6   | 0.1   | <0.05 | 4     | 0.7  |
| L3750N 7487.5E     | Soil  | 3     | 15    | 0.32  | 113   | 0.062 | 2     | 1.29  | 0.016 | 0.05  | 0.1   | <0.01 | 1.2   | <0.1  | <0.05 | 4     | <0.5 |
| REP L3750N 7487.5E | QC    | 3     | 15    | 0.33  | 110   | 0.063 | 3     | 1.26  | 0.016 | 0.05  | 0.1   | <0.01 | 1.1   | 0.1   | <0.05 | 5     | <0.5 |
| L3700N 7262.5E     | Soil  | 11    | 23    | 0.84  | 127   | 0.092 | 2     | 2.47  | 0.027 | 0.12  | 0.3   | 0.03  | 6.2   | 0.2   | <0.05 | 7     | 0.7  |
| REP L3700N 7262.5E | QC    | 11    | 23    | 0.87  | 125   | 0.093 | 5     | 2.57  | 0.025 | 0.12  | 0.4   | 0.03  | 6.2   | 0.2   | <0.05 | 7     | 0.8  |
| L3700N 7450E       | Soil  | 9     | 25    | 0.75  | 163   | 0.088 | 3     | 2.02  | 0.032 | 0.10  | 0.2   | 0.02  | 2.3   | 0.2   | <0.05 | 6     | 0.8  |
| REP L3700N 7450E   | QC    | 9     | 25    | 0.73  | 166   | 0.085 | 3     | 2.05  | 0.028 | 0.09  | 0.1   | 0.03  | 2.3   | 0.2   | <0.05 | 5     | 0.9  |
| L3650N 7362.5E     | Soil  | 5     | 21    | 0.63  | 224   | 0.081 | 3     | 1.79  | 0.021 | 0.09  | 0.2   | 0.02  | 2.0   | 0.1   | <0.05 | 5     | <0.5 |
| REP L3650N 7362.5E | QC    | 5     | 20    | 0.61  | 234   | 0.077 | 2     | 1.70  | 0.020 | 0.09  | <0.1  | 0.02  | 1.9   | 0.1   | <0.05 | 5     | <0.5 |
| L3650N 7575E       | Soil  | 8     | 48    | 1.22  | 192   | 0.071 | 5     | 1.87  | 0.025 | 0.10  | 0.1   | 0.03  | 2.7   | 0.4   | <0.05 | 5     | 2.0  |
| REP L3650N 7575E   | QC    | 8     | 50    | 1.19  | 191   | 0.069 | 6     | 1.83  | 0.025 | 0.09  | 0.2   | 0.03  | 2.6   | 0.4   | <0.05 | 5     | 1.6  |
| L3600N 7187.5E     | Soil  | 8     | 23    | 0.48  | 102   | 0.061 | 1     | 1.80  | 0.041 | 0.14  | 0.2   | 0.01  | 4.6   | 0.2   | <0.05 | 5     | 0.6  |
| REP L3600N 7187.5E | QC    | 8     | 23    | 0.47  | 100   | 0.060 | 1     | 1.73  | 0.041 | 0.14  | 0.2   | 0.01  | 4.7   | 0.2   | <0.05 | 5     | <0.5 |
| L3600N 7437.5E     | Soil  | 13    | 29    | 0.43  | 115   | 0.114 | 3     | 2.15  | 0.026 | 0.15  | 0.2   | 0.02  | 3.4   | 0.2   | <0.05 | 6     | 1.0  |
| REP L3600N 7437.5E | QC    | 14    | 29    | 0.45  | 115   | 0.115 | 2     | 2.15  | 0.026 | 0.15  | 0.2   | 0.02  | 3.3   | 0.2   | <0.05 | 6     | 0.9  |
| L3600N 7550E       | Soil  | 9     | 42    | 1.03  | 123   | 0.105 | 3     | 2.13  | 0.021 | 0.23  | 0.2   | 0.02  | 3.2   | 0.2   | <0.05 | 6     | 0.7  |
| REP L3600N 7550E   | QC    | 9     | 43    | 1.03  | 121   | 0.107 | 3     | 2.05  | 0.021 | 0.23  | 0.2   | 0.01  | 3.2   | 0.3   | <0.05 | 6     | 0.6  |
| L3550N 7437.5E     | Soil  | 14    | 26    | 0.59  | 142   | 0.065 | 5     | 2.17  | 0.035 | 0.12  | 0.1   | 0.02  | 3.0   | 0.2   | 0.06  | 6     | 1.6  |
| REP L3550N 7437.5E | QC    | 15    | 26    | 0.60  | 145   | 0.067 | 5     | 2.15  | 0.034 | 0.13  | 0.1   | 0.02  | 3.1   | 0.2   | 0.06  | 6     | 1.7  |
| L3500N 7450E       | Soil  | 7     | 22    | 0.32  | 157   | 0.073 | 2     | 1.38  | 0.018 | 0.11  | 0.1   | 0.02  | 1.8   | 0.1   | <0.05 | 5     | <0.5 |
| REP L3500N 7450E   | QC    | 7     | 21    | 0.32  | 158   | 0.073 | 1     | 1.34  | 0.016 | 0.11  | <0.1  | 0.03  | 1.8   | 0.1   | <0.05 | 5     | 0.5  |
| L3450N 7412E       | Soil  | 15    | 24    | 0.42  | 165   | 0.084 | 3     | 1.72  | 0.035 | 0.17  | 0.2   | 0.02  | 3.1   | 0.2   | <0.05 | 5     | 1.7  |
| REP L3450N 7412E   | QC    | 15    | 23    | 0.42  | 166   | 0.087 | 3     | 1.71  | 0.036 | 0.16  | 0.1   | 0.02  | 3.3   | 0.1   | <0.05 | 5     | 0.9  |

**QUALITY CONTROL REPORT**

**VAN07002985.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                     |          | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P      |
|                     |          | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %      |
|                     |          | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 21.9  | 104.1 | 69.1  | 401   | 0.8   | 56.2  | 9.6   | 615   | 2.37  | 49.8  | 4.7   | 65.7  | 4.5   | 72    | 6.1   | 6.1   | 4.6   | 94    | 0.99  | 0.081  |
| STD DS7             | Standard | 21.9  | 108.5 | 73.1  | 420   | 0.9   | 58.9  | 9.9   | 642   | 2.50  | 54.7  | 5.3   | 58.3  | 4.9   | 77    | 6.8   | 6.1   | 5.0   | 90    | 0.99  | 0.082  |
| STD DS7             | Standard | 24.7  | 111.5 | 78.7  | 414   | 0.9   | 66.0  | 10.9  | 654   | 2.59  | 48.5  | 5.5   | 76.3  | 5.1   | 69    | 5.9   | 5.7   | 4.9   | 99    | 1.00  | 0.076  |
| STD DS7             | Standard | 22.8  | 105.5 | 77.6  | 394   | 0.8   | 61.3  | 9.9   | 661   | 2.51  | 50.0  | 5.2   | 63.8  | 4.9   | 73    | 6.4   | 6.2   | 4.6   | 94    | 0.95  | 0.082  |
| STD DS7             | Standard | 18.2  | 97.3  | 67.1  | 380   | 0.8   | 51.2  | 8.6   | 574   | 2.28  | 48.0  | 4.6   | 60.8  | 4.1   | 62    | 6.0   | 5.1   | 4.1   | 77    | 0.90  | 0.082  |
| STD DS7             | Standard | 20.1  | 95.2  | 66.6  | 387   | 0.8   | 51.6  | 8.8   | 591   | 2.28  | 51.2  | 4.4   | 82.3  | 4.1   | 62    | 6.2   | 5.1   | 3.9   | 83    | 0.88  | 0.079  |
| STD DS7             | Standard | 21.7  | 112.7 | 69.7  | 407   | 0.8   | 60.0  | 9.7   | 648   | 2.50  | 52.4  | 5.2   | 72.6  | 4.8   | 81    | 7.3   | 7.0   | 4.9   | 94    | 0.98  | 0.077  |
| STD DS7             | Standard | 20.7  | 100.1 | 65.8  | 380   | 0.8   | 53.3  | 9.0   | 592   | 2.28  | 49.9  | 4.7   | 71.0  | 4.5   | 73    | 6.3   | 6.0   | 4.6   | 83    | 0.93  | 0.076  |
| STD DS7             | Standard | 22.8  | 111.8 | 84.2  | 420   | 0.9   | 61.4  | 10.2  | 657   | 2.54  | 57.4  | 6.1   | 72.8  | 5.7   | 80    | 7.4   | 7.4   | 5.7   | 93    | 1.00  | 0.085  |
| STD DS7             | Standard | 21.7  | 105.0 | 73.7  | 390   | 0.8   | 61.4  | 10.2  | 609   | 2.37  | 47.9  | 5.4   | 67.7  | 5.0   | 69    | 6.3   | 6.0   | 4.7   | 92    | 0.95  | 0.075  |
| STD DS7 Expected    |          | 20.92 | 109   | 70.6  | 411   | 0.89  | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 68.7  | 6.38  | 5.86  | 4.51  | 86    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |



**QUALITY CONTROL REPORT**

**VAN07002985.1**

|                     |          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |      |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
|                     |          | La    | Cr    | Mg    | Ba    | Ti     | B     | Al    | Na     | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se   |
|                     |          | ppm   | ppm   | %     | ppm   | %      | ppm   | %     | %      | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm  |
|                     |          | 1     | 1     | 0.01  | 1     | 0.001  | 1     | 0.01  | 0.001  | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5  |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |      |
| STD DS7             | Standard | 13    | 209   | 1.05  | 374   | 0.127  | 42    | 1.00  | 0.096  | 0.44  | 3.9   | 0.19  | 2.4   | 3.9   | 0.18  | 5     | 3.6  |
| STD DS7             | Standard | 14    | 209   | 1.05  | 423   | 0.118  | 40    | 1.02  | 0.097  | 0.47  | 4.2   | 0.22  | 2.5   | 4.3   | 0.18  | 5     | 3.5  |
| STD DS7             | Standard | 14    | 243   | 1.11  | 352   | 0.140  | 41    | 1.07  | 0.093  | 0.42  | 4.3   | 0.22  | 2.5   | 4.7   | 0.25  | 5     | 3.9  |
| STD DS7             | Standard | 14    | 220   | 1.07  | 369   | 0.125  | 42    | 1.04  | 0.092  | 0.42  | 3.9   | 0.20  | 2.4   | 4.4   | 0.21  | 5     | 4.3  |
| STD DS7             | Standard | 11    | 177   | 1.00  | 358   | 0.107  | 42    | 0.95  | 0.067  | 0.42  | 3.6   | 0.20  | 2.2   | 4.2   | 0.24  | 5     | 3.6  |
| STD DS7             | Standard | 11    | 189   | 1.08  | 370   | 0.111  | 39    | 0.97  | 0.067  | 0.44  | 3.9   | 0.17  | 2.2   | 4.2   | 0.23  | 4     | 3.6  |
| STD DS7             | Standard | 14    | 213   | 1.04  | 411   | 0.130  | 38    | 1.00  | 0.095  | 0.45  | 3.7   | 0.19  | 2.5   | 4.2   | 0.18  | 5     | 3.4  |
| STD DS7             | Standard | 13    | 193   | 0.99  | 382   | 0.111  | 41    | 0.97  | 0.088  | 0.42  | 3.9   | 0.20  | 2.4   | 4.2   | 0.20  | 5     | 3.7  |
| STD DS7             | Standard | 14    | 209   | 1.08  | 421   | 0.128  | 43    | 1.03  | 0.096  | 0.46  | 3.9   | 0.22  | 2.7   | 4.8   | 0.22  | 5     | 3.9  |
| STD DS7             | Standard | 13    | 215   | 1.02  | 360   | 0.125  | 39    | 0.99  | 0.085  | 0.41  | 3.9   | 0.19  | 2.3   | 4.3   | 0.20  | 5     | 3.6  |
| STD DS7 Expected    |          | 12.7  | 163   | 1.05  | 370.3 | 0.124  | 38.6  | 0.959 | 0.073  | 0.44  | 3.8   | 0.2   | 2.5   | 4.19  | 0.21  | 4.6   | 3.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5 |



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**Client:** Kettle River Resources Ltd.

Box 130  
 Greenwood B.C. V0H 1J0 Canada

Submitted By: Ellen Clements  
 Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.  
 Received: October 15, 2007  
 Report Date: January 15, 2008  
 Page: 1 of 6

## CERTIFICATE OF ANALYSIS

VAN07002986.1

### CLIENT JOB INFORMATION

Project: 41  
 Shipment ID:  
 P.O. Number 2007-11  
 Number of Samples: 146

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
 DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

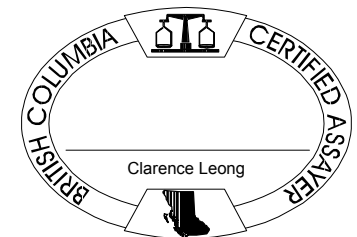
Invoice To: Kettle River Resources Ltd.  
 Box 130  
 Greenwood B.C. V0H 1J0  
 Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code  | Number of Samples | Code Description                           | Test Wgt (g) | Report Status |
|--------------|-------------------|--------------------------------------------|--------------|---------------|
| SS80         | 146               | Dry at 60C sieve 100g to -80 mesh          |              |               |
| Dry at 60C   | 146               | Dry at 60C                                 |              |               |
| Split Reject | 146               | Reject sample split/packet                 |              |               |
| 1DX          | 146               | 1:1:1 Aqua Regia digestion ICP-MS analysis | 15           | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.



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Project: 41

Report Date: January 15, 2008

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method Analyte | Unit | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |  |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                |      | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |  |
| MDL            |      | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |       |  |
|                |      | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |  |
| L3400N 7162.5E | Soil | 0.8   | 34.5  | 8.6   | 551   | <0.1  | 14.4  | 6.2   | 354   | 1.52  | 11.9  | 0.4   | 1.6   | 2.0   | 24    | 1.1   | 0.2   | 0.2   | 32    | 0.24  | 0.028 |       |  |
| L3400N 7175E   | Soil | 0.7   | 26.1  | 9.9   | 172   | 0.1   | 18.8  | 7.0   | 310   | 1.61  | 16.7  | 0.6   | 5.7   | 2.5   | 27    | 0.7   | 0.2   | 0.2   | 34    | 0.28  | 0.095 |       |  |
| L3400N 7187.5E | Soil | 0.9   | 39.9  | 10.1  | 147   | <0.1  | 22.0  | 8.5   | 399   | 1.80  | 22.8  | 1.1   | 2.0   | 3.1   | 25    | 0.4   | 0.3   | 0.2   | 40    | 0.21  | 0.094 |       |  |
| L3400N 7200E   | Soil | 0.7   | 25.2  | 9.2   | 156   | 0.1   | 23.7  | 7.9   | 435   | 1.70  | 14.8  | 0.5   | 0.9   | 2.7   | 26    | 0.5   | 0.2   | 0.2   | 35    | 0.25  | 0.123 |       |  |
| L3400N 7212.5E | Soil | 0.8   | 26.6  | 9.3   | 128   | 0.1   | 22.5  | 8.2   | 516   | 1.82  | 17.3  | 0.8   | 2.0   | 2.8   | 33    | 0.5   | 0.2   | 0.2   | 38    | 0.29  | 0.114 |       |  |
| L3400N 7225E   | Soil | 0.7   | 23.5  | 8.6   | 89    | <0.1  | 19.6  | 7.3   | 371   | 1.72  | 11.5  | 0.6   | 2.1   | 2.8   | 26    | 0.3   | 0.2   | 0.2   | 38    | 0.21  | 0.085 |       |  |
| L3400N 7237.5E | Soil | 0.6   | 18.3  | 8.5   | 112   | <0.1  | 17.5  | 6.6   | 432   | 1.67  | 7.3   | 0.6   | 2.3   | 2.8   | 33    | 0.6   | 0.1   | 0.1   | 39    | 0.28  | 0.130 |       |  |
| L3400N 7250E   | Soil | 0.5   | 22.3  | 10.8  | 95    | <0.1  | 22.4  | 8.5   | 339   | 2.22  | 6.8   | 0.9   | 16.1  | 3.8   | 30    | 0.5   | 0.2   | 0.2   | 56    | 0.30  | 0.042 |       |  |
| L3400N 7232.5E | Soil | 0.5   | 17.6  | 11.2  | 127   | <0.1  | 22.6  | 8.1   | 821   | 1.98  | 6.1   | 1.0   | 1.7   | 2.8   | 39    | 1.2   | 0.3   | 0.2   | 63    | 0.76  | 0.052 |       |  |
| L3400N 7275E   | Soil | 0.4   | 27.6  | 36.3  | 163   | <0.1  | 28.5  | 8.7   | 588   | 2.17  | 14.6  | 1.2   | 2.0   | 3.3   | 51    | 1.6   | 0.7   | 0.2   | 63    | 0.99  | 0.106 |       |  |
| L3400N 7287.5E | Soil | 0.3   | 14.1  | 13.4  | 112   | <0.1  | 13.4  | 4.2   | 622   | 0.93  | 10.9  | 0.5   | 3.9   | 1.1   | 30    | 0.8   | 0.2   | 0.2   | 26    | 0.30  | 0.108 |       |  |
| L3400N 7300E   | Soil | 0.6   | 11.5  | 7.0   | 71    | <0.1  | 11.9  | 5.5   | 457   | 1.41  | 6.3   | 0.3   | 1.2   | 2.0   | 29    | 0.4   | 0.2   | 0.1   | 33    | 0.29  | 0.048 |       |  |
| L3400N 7312.5E | Soil | 0.7   | 20.8  | 11.3  | 80    | <0.1  | 17.5  | 7.1   | 492   | 1.74  | 27.0  | 0.6   | 2.3   | 2.7   | 44    | 0.6   | 0.3   | 0.3   | 41    | 0.39  | 0.086 |       |  |
| L3400N 7325E   | Soil | 0.5   | 15.8  | 6.8   | 96    | <0.1  | 18.6  | 6.3   | 754   | 1.60  | 9.1   | 0.8   | 1.1   | 1.9   | 62    | 0.9   | 0.3   | 0.1   | 48    | 0.48  | 0.093 |       |  |
| L3400N 7337.5E | Soil | 0.5   | 22.8  | 20.3  | 126   | <0.1  | 13.3  | 4.4   | 879   | 1.22  | 9.3   | 0.8   | 1.6   | 0.5   | 103   | 2.0   | 0.3   | 0.3   | 33    | 0.74  | 0.142 |       |  |
| L3400N 7350E   | Soil | 0.7   | 19.3  | 10.3  | 109   | <0.1  | 18.7  | 8.3   | 520   | 2.01  | 12.4  | 0.8   | 1.4   | 2.7   | 44    | 0.4   | 0.3   | 0.2   | 52    | 0.36  | 0.096 |       |  |
| L3400N 7362.5E | Soil | 0.6   | 26.3  | 11.0  | 120   | <0.1  | 17.5  | 7.7   | 480   | 1.72  | 16.6  | 0.6   | 2.8   | 2.7   | 57    | 0.8   | 0.3   | 0.2   | 39    | 0.42  | 0.135 |       |  |
| L3400N 7375E   | Soil | 0.5   | 25.3  | 6.6   | 126   | 0.2   | 15.7  | 4.1   | 698   | 1.12  | 13.0  | 0.9   | 1.0   | 0.9   | 244   | 1.6   | 0.4   | 0.1   | 27    | 1.66  | 0.237 |       |  |
| L3400N 7387.5E | Soil | 1.1   | 26.2  | 17.6  | 164   | 0.3   | 27.7  | 7.4   | 1054  | 2.02  | 30.7  | 0.9   | 2.2   | 1.2   | 251   | 2.3   | 0.8   | 0.3   | 43    | 1.42  | 0.187 |       |  |
| L3400N 7400E   | Soil | 1.4   | 26.3  | 15.7  | 143   | 0.3   | 24.7  | 6.6   | 824   | 1.84  | 22.0  | 0.8   | 2.1   | 1.4   | 201   | 2.1   | 0.7   | 0.2   | 47    | 1.79  | 0.149 |       |  |
| L3400N 7412.5E | Soil | 0.7   | 34.6  | 15.2  | 170   | 0.1   | 30.0  | 11.3  | 694   | 2.66  | 15.1  | 0.7   | 3.2   | 4.2   | 113   | 0.9   | 0.4   | 0.4   | 56    | 0.95  | 0.059 |       |  |
| L3400N 7425E   | Soil | 1.0   | 21.3  | 10.9  | 106   | <0.1  | 23.0  | 9.4   | 625   | 2.18  | 12.3  | 0.7   | 3.8   | 3.7   | 34    | 0.3   | 0.4   | 0.3   | 52    | 0.37  | 0.048 |       |  |
| L3400N 7437.5E | Soil | 0.6   | 25.2  | 15.2  | 161   | 0.1   | 24.7  | 9.1   | 1110  | 2.13  | 17.5  | 0.6   | 3.7   | 3.0   | 51    | 0.8   | 0.3   | 5.2   | 45    | 0.50  | 0.122 |       |  |
| L3400N 7450E   | Soil | 0.7   | 20.5  | 11.0  | 90    | <0.1  | 17.4  | 7.7   | 697   | 1.82  | 11.0  | 0.5   | 1.9   | 2.6   | 30    | 0.5   | 0.3   | 0.3   | 44    | 0.34  | 0.070 |       |  |
| L3400N 7462.5E | Soil | 0.9   | 25.4  | 10.8  | 97    | <0.1  | 23.3  | 9.4   | 428   | 2.33  | 13.0  | 0.8   | 2.6   | 3.5   | 22    | 0.3   | 0.3   | 0.3   | 56    | 0.25  | 0.058 |       |  |
| L3400N 7475E   | Soil | 0.8   | 20.9  | 13.8  | 120   | <0.1  | 20.0  | 8.3   | 798   | 2.03  | 12.4  | 0.7   | 1.8   | 2.6   | 35    | 0.4   | 0.5   | 0.4   | 44    | 0.35  | 0.084 |       |  |
| L3400N 7487.5E | Soil | 0.7   | 19.7  | 9.8   | 84    | <0.1  | 18.8  | 8.9   | 528   | 2.15  | 9.3   | 0.6   | 1.6   | 3.1   | 26    | 0.3   | 0.4   | 0.2   | 49    | 0.32  | 0.063 |       |  |
| L3400N 7500E   | Soil | 0.8   | 24.7  | 12.9  | 95    | <0.1  | 21.7  | 9.4   | 601   | 2.26  | 11.5  | 0.7   | 2.6   | 3.2   | 31    | 0.3   | 0.3   | 0.3   | 51    | 0.38  | 0.081 |       |  |
| L3400N 7512.5E | Soil | 0.6   | 25.2  | 22.1  | 113   | <0.1  | 17.4  | 8.0   | 1431  | 2.13  | 21.0  | 0.7   | 2.7   | 3.4   | 39    | 0.7   | 0.5   | 0.4   | 46    | 0.57  | 0.099 |       |  |
| L3350N 7150E   | Soil | 0.8   | 65.9  | 23.2  | 486   | 0.1   | 23.4  | 10.1  | 434   | 1.73  | 17.1  | 0.7   | 2.8   | 2.2   | 53    | 2.9   | 0.6   | 0.5   | 30    | 0.69  | 0.150 |       |  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: January 15, 2008

Page: 2 of 6 Part 2

# CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3400N 7162.5E | Soil  | 7     | 17    | 0.27  | 66    | 0.064 | 2     | 1.29  | 0.033 | 0.08  | 0.1   | <0.01 | 2.0   | 0.1   | <0.05 | 4     | <0.5  |
| L3400N 7175E   | Soil  | 8     | 18    | 0.26  | 105   | 0.085 | 3     | 1.78  | 0.024 | 0.09  | 0.2   | 0.01  | 2.1   | 0.1   | <0.05 | 5     | 0.5   |
| L3400N 7187.5E | Soil  | 10    | 24    | 0.31  | 190   | 0.093 | 2     | 1.84  | 0.024 | 0.12  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7200E   | Soil  | 8     | 23    | 0.32  | 186   | 0.089 | 3     | 1.75  | 0.025 | 0.13  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7212.5E | Soil  | 10    | 23    | 0.33  | 180   | 0.092 | 2     | 1.93  | 0.024 | 0.14  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7225E   | Soil  | 9     | 22    | 0.33  | 163   | 0.082 | 2     | 1.64  | 0.023 | 0.13  | 0.2   | <0.01 | 2.2   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7237.5E | Soil  | 9     | 21    | 0.32  | 168   | 0.074 | 1     | 1.52  | 0.020 | 0.11  | 0.2   | 0.02  | 2.3   | <0.1  | <0.05 | 5     | <0.5  |
| L3400N 7250E   | Soil  | 13    | 31    | 0.69  | 138   | 0.102 | 1     | 2.04  | 0.018 | 0.17  | 0.1   | <0.01 | 3.3   | 0.2   | <0.05 | 6     | 0.6   |
| L3400N 7232.5E | Soil  | 13    | 32    | 1.46  | 155   | 0.090 | 2     | 2.30  | 0.028 | 0.11  | 0.1   | 0.02  | 3.6   | 0.2   | <0.05 | 7     | 0.9   |
| L3400N 7275E   | Soil  | 16    | 36    | 1.49  | 177   | 0.101 | 5     | 2.45  | 0.021 | 0.11  | 0.1   | 0.02  | 3.6   | 0.2   | <0.05 | 7     | 1.1   |
| L3400N 7287.5E | Soil  | 5     | 11    | 0.21  | 107   | 0.049 | 1     | 0.86  | 0.028 | 0.06  | <0.1  | 0.01  | 1.0   | <0.1  | <0.05 | 3     | 0.6   |
| L3400N 7300E   | Soil  | 6     | 18    | 0.28  | 126   | 0.069 | 1     | 1.25  | 0.018 | 0.14  | 0.1   | 0.01  | 1.6   | 0.1   | <0.05 | 4     | <0.5  |
| L3400N 7312.5E | Soil  | 10    | 22    | 0.38  | 148   | 0.085 | 3     | 2.03  | 0.022 | 0.14  | 0.1   | 0.02  | 2.3   | 0.1   | <0.05 | 6     | 0.9   |
| L3400N 7325E   | Soil  | 10    | 22    | 0.47  | 161   | 0.070 | 2     | 1.63  | 0.029 | 0.11  | 0.1   | 0.02  | 2.6   | <0.1  | <0.05 | 5     | 1.2   |
| L3400N 7337.5E | Soil  | 8     | 16    | 0.37  | 130   | 0.048 | 3     | 1.30  | 0.027 | 0.08  | 0.1   | 0.03  | 1.3   | 0.1   | <0.05 | 4     | 0.9   |
| L3400N 7350E   | Soil  | 13    | 24    | 0.43  | 115   | 0.092 | <1    | 2.19  | 0.020 | 0.12  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 7     | <0.5  |
| L3400N 7362.5E | Soil  | 10    | 22    | 0.37  | 139   | 0.082 | 2     | 1.74  | 0.021 | 0.14  | 0.1   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7375E   | Soil  | 9     | 13    | 0.36  | 98    | 0.043 | 4     | 1.03  | 0.026 | 0.08  | <0.1  | 0.02  | 1.8   | 0.1   | 0.05  | 3     | 1.3   |
| L3400N 7387.5E | Soil  | 17    | 24    | 0.53  | 151   | 0.060 | 7     | 1.92  | 0.029 | 0.15  | 0.2   | 0.03  | 2.6   | 0.3   | 0.08  | 6     | 1.5   |
| L3400N 7400E   | Soil  | 15    | 26    | 0.51  | 126   | 0.059 | 4     | 1.71  | 0.025 | 0.12  | 0.1   | 0.03  | 2.7   | 0.2   | <0.05 | 5     | 1.0   |
| L3400N 7412.5E | Soil  | 18    | 40    | 0.55  | 154   | 0.111 | 3     | 2.05  | 0.024 | 0.20  | 0.3   | 0.02  | 4.1   | 0.2   | <0.05 | 6     | 0.6   |
| L3400N 7425E   | Soil  | 18    | 32    | 0.43  | 113   | 0.105 | 2     | 1.95  | 0.016 | 0.16  | 0.2   | <0.01 | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3400N 7437.5E | Soil  | 19    | 29    | 0.41  | 244   | 0.095 | 3     | 2.11  | 0.018 | 0.17  | 0.1   | 0.03  | 2.8   | 0.2   | <0.05 | 6     | <0.5  |
| L3400N 7450E   | Soil  | 14    | 25    | 0.33  | 160   | 0.079 | 2     | 1.38  | 0.015 | 0.17  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3400N 7462.5E | Soil  | 15    | 34    | 0.48  | 140   | 0.103 | 2     | 1.91  | 0.015 | 0.22  | 0.2   | <0.01 | 3.1   | 0.2   | <0.05 | 6     | <0.5  |
| L3400N 7475E   | Soil  | 14    | 27    | 0.39  | 166   | 0.090 | 2     | 2.05  | 0.017 | 0.13  | 0.2   | 0.02  | 2.7   | 0.2   | <0.05 | 6     | <0.5  |
| L3400N 7487.5E | Soil  | 11    | 28    | 0.41  | 131   | 0.092 | 1     | 1.85  | 0.016 | 0.13  | 0.2   | <0.01 | 2.7   | 0.3   | <0.05 | 6     | <0.5  |
| L3400N 7500E   | Soil  | 16    | 30    | 0.43  | 167   | 0.092 | 1     | 1.88  | 0.016 | 0.21  | 0.2   | <0.01 | 3.1   | 0.3   | <0.05 | 6     | <0.5  |
| L3400N 7512.5E | Soil  | 56    | 23    | 0.41  | 143   | 0.086 | 2     | 2.21  | 0.018 | 0.09  | 0.2   | 0.02  | 2.5   | 0.2   | <0.05 | 7     | 0.6   |
| L3350N 7150E   | Soil  | 15    | 16    | 0.26  | 118   | 0.064 | 9     | 1.42  | 0.018 | 0.07  | 0.2   | 0.02  | 2.1   | 0.1   | <0.05 | 4     | 0.6   |



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Project: 41

Report Date: January 15, 2008

Page: 3 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method          | Analyte | Unit | MDL | 1DX15 Mo | 1DX15 Cu | 1DX15 Pb | 1DX15 Zn | 1DX15 Ag | 1DX15 Ni | 1DX15 Co | 1DX15 Mn | 1DX15 Fe | 1DX15 As | 1DX15 U | 1DX15 Au | 1DX15 Th | 1DX15 Sr | 1DX15 Cd | 1DX15 Sb | 1DX15 Bi | 1DX15 V | 1DX15 Ca | 1DX15 P |
|-----------------|---------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|---------|----------|---------|
|                 |         |      |     | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm     | ppb      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm     | %        | %       |
|                 |         |      |     | 0.1      | 0.1      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 1        | 0.01     | 0.5      | 0.1     | 0.5      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 2       | 0.01     | 0.001   |
| L3350N 7162.5E  | Soil    |      |     | 0.6      | 14.8     | 11.5     | 135      | <0.1     | 21.6     | 7.5      | 446      | 1.79     | 11.5     | 0.6     | 2.1      | 2.0      | 37       | 1.0      | 0.4      | 0.2      | 37      | 0.39     | 0.154   |
| L3350N 7175E    | Soil    |      |     | 0.5      | 11.0     | 7.7      | 112      | <0.1     | 11.3     | 5.9      | 378      | 1.17     | 7.4      | 0.4     | 1.2      | 0.9      | 41       | 0.9      | 0.3      | 0.1      | 22      | 0.40     | 0.137   |
| L3350N 7187.5E  | Soil    |      |     | 0.4      | 16.1     | 8.2      | 61       | <0.1     | 14.0     | 6.2      | 271      | 1.65     | 6.9      | 0.4     | 1.1      | 2.7      | 34       | 0.2      | 0.2      | 0.2      | 33      | 0.33     | 0.046   |
| L3350N 7200E    | Soil    |      |     | 0.7      | 25.7     | 7.8      | 84       | <0.1     | 16.1     | 6.4      | 264      | 1.46     | 23.4     | 0.4     | 1.8      | 2.1      | 25       | 0.4      | 0.2      | 0.2      | 31      | 0.24     | 0.113   |
| L3350N 7212.5E  | Soil    |      |     | 0.8      | 38.4     | 9.6      | 86       | <0.1     | 22.3     | 8.0      | 286      | 1.91     | 17.1     | 0.7     | 2.6      | 3.3      | 32       | 0.5      | 0.3      | 0.2      | 42      | 0.30     | 0.082   |
| L3350N 7225E    | Soil    |      |     | 0.7      | 16.8     | 13.1     | 122      | <0.1     | 16.5     | 7.1      | 599      | 1.66     | 8.5      | 0.5     | 4.4      | 2.5      | 30       | 0.5      | 0.2      | 0.2      | 37      | 0.27     | 0.073   |
| L3350N 7237.5E  | Soil    |      |     | 0.4      | 16.0     | 20.7     | 93       | <0.1     | 14.5     | 5.9      | 902      | 1.59     | 7.3      | 0.7     | 1.8      | 1.7      | 30       | 1.0      | 0.3      | 0.3      | 37      | 0.44     | 0.056   |
| L3350N 7237.5AE | Soil    |      |     | 0.4      | 32.1     | 13.2     | 71       | 0.2      | 22.9     | 7.6      | 284      | 2.09     | 11.4     | 1.3     | 2.5      | 4.7      | 56       | 0.4      | 0.3      | 0.2      | 53      | 0.36     | 0.102   |
| L3350N 7250E    | Soil    |      |     | 0.4      | 16.0     | 9.3      | 58       | <0.1     | 13.8     | 5.4      | 548      | 1.44     | 6.4      | 0.6     | 1.2      | 2.5      | 29       | 0.5      | 0.2      | 0.2      | 32      | 0.25     | 0.050   |
| L3350N 7262.5E  | Soil    |      |     | 0.5      | 22.8     | 14.0     | 169      | <0.1     | 30.1     | 8.4      | 972      | 1.96     | 9.0      | 1.2     | 1.3      | 2.7      | 65       | 1.4      | 0.4      | 0.3      | 66      | 0.98     | 0.120   |
| L3350N 7275E    | Soil    |      |     | 0.3      | 22.0     | 8.4      | 200      | <0.1     | 11.3     | 4.5      | 933      | 1.03     | 5.6      | 0.7     | 0.8      | 1.0      | 45       | 1.9      | 0.7      | 0.3      | 27      | 0.56     | 0.132   |
| L3350N 7287.5E  | Soil    |      |     | 0.6      | 25.1     | 12.8     | 85       | <0.1     | 24.8     | 9.0      | 409      | 2.36     | 7.9      | 1.3     | 2.1      | 3.8      | 44       | 0.3      | 0.3      | 0.2      | 58      | 0.33     | 0.079   |
| L3350N 7300E    | Soil    |      |     | 1.4      | 24.9     | 14.3     | 130      | 0.1      | 29.6     | 8.6      | 737      | 2.50     | 14.9     | 1.3     | 2.1      | 3.3      | 149      | 1.6      | 0.4      | 0.2      | 66      | 1.33     | 0.157   |
| L3350N 7312.5E  | Soil    |      |     | 0.9      | 25.4     | 12.2     | 125      | 0.2      | 30.7     | 7.2      | 812      | 1.92     | 16.2     | 1.1     | 2.1      | 2.4      | 132      | 2.1      | 0.6      | 0.2      | 75      | 1.51     | 0.087   |
| L3350N 7325E    | Soil    |      |     | 0.7      | 22.3     | 8.8      | 148      | 0.2      | 21.4     | 5.2      | 649      | 1.61     | 11.7     | 0.8     | 2.9      | 2.1      | 131      | 2.1      | 0.4      | 0.2      | 43      | 1.04     | 0.120   |
| L3350N 7337.5E  | Soil    |      |     | 0.9      | 19.0     | 10.2     | 83       | <0.1     | 22.9     | 8.4      | 284      | 2.19     | 9.0      | 0.6     | 1.4      | 3.4      | 40       | 0.3      | 0.3      | 0.2      | 49      | 0.26     | 0.026   |
| L3350N 7350E    | Soil    |      |     | 0.7      | 22.6     | 10.1     | 84       | <0.1     | 19.8     | 7.8      | 309      | 1.77     | 9.2      | 0.7     | 1.3      | 3.2      | 42       | 0.4      | 0.3      | 0.2      | 38      | 0.28     | 0.056   |
| L3350N 7362.5E  | Soil    |      |     | 0.9      | 20.4     | 10.6     | 129      | <0.1     | 22.4     | 7.4      | 521      | 1.88     | 10.8     | 0.8     | 2.5      | 3.0      | 52       | 1.0      | 0.4      | 0.3      | 45      | 0.34     | 0.060   |
| L3350N 7375E    | Soil    |      |     | 0.9      | 17.3     | 9.8      | 122      | <0.1     | 20.9     | 6.4      | 496      | 1.51     | 11.1     | 0.8     | 2.2      | 1.9      | 44       | 0.9      | 0.4      | 0.3      | 45      | 0.32     | 0.091   |
| L3350N 7387.5E  | Soil    |      |     | 1.4      | 24.0     | 13.1     | 170      | <0.1     | 30.4     | 10.0     | 665      | 2.41     | 19.5     | 1.1     | 8.4      | 3.9      | 42       | 0.4      | 0.7      | 0.6      | 63      | 0.42     | 0.047   |
| L3350N 7400E    | Soil    |      |     | 0.7      | 18.4     | 9.6      | 111      | 0.2      | 21.9     | 7.7      | 328      | 2.00     | 9.9      | 0.5     | 2.0      | 3.4      | 33       | 0.6      | 0.3      | 0.2      | 45      | 0.37     | 0.028   |
| L3350N 7412.5E  | Soil    |      |     | 0.8      | 24.2     | 11.3     | 153      | <0.1     | 19.8     | 7.5      | 563      | 1.80     | 10.9     | 0.5     | 1.3      | 3.1      | 36       | 0.9      | 0.3      | 0.2      | 37      | 0.35     | 0.114   |
| L3350N 7425E    | Soil    |      |     | 0.5      | 20.1     | 17.0     | 147      | 0.1      | 8.3      | 3.2      | 1254     | 1.01     | 10.5     | 0.4     | 1.8      | 0.7      | 55       | 1.7      | 0.7      | 0.2      | 23      | 1.15     | 0.147   |
| L3350N 7437.5E  | Soil    |      |     | 0.7      | 24.9     | 19.9     | 123      | 0.2      | 16.3     | 6.4      | 1151     | 1.53     | 15.8     | 0.8     | 2.0      | 1.1      | 71       | 1.4      | 1.0      | 0.4      | 37      | 1.04     | 0.190   |
| L3350N 7450E    | Soil    |      |     | 0.7      | 19.5     | 16.7     | 69       | 0.1      | 25.8     | 6.3      | 973      | 1.45     | 20.4     | 1.0     | 2.7      | 0.9      | 78       | 0.6      | 0.7      | 0.3      | 37      | 1.07     | 0.191   |
| L3350N 7500E    | Soil    |      |     | 0.8      | 27.0     | 15.8     | 87       | 0.1      | 31.1     | 8.8      | 1094     | 1.92     | 42.0     | 0.9     | 2.3      | 2.0      | 57       | 0.6      | 1.1      | 0.5      | 42      | 1.16     | 0.169   |
| L3350N 7562.5E  | Soil    |      |     | 0.6      | 32.5     | 46.9     | 102      | 0.1      | 16.6     | 5.8      | 783      | 1.44     | 15.8     | 0.6     | 4.1      | 1.4      | 66       | 1.0      | 0.7      | 1.0      | 28      | 2.42     | 0.107   |
| L3350N 7537.5E  | Soil    |      |     | 0.4      | 12.2     | 8.0      | 32       | <0.1     | 9.1      | 3.0      | 340      | 0.69     | 11.8     | 0.5     | 2.3      | 0.1      | 132      | 0.4      | 0.5      | 0.3      | 16      | 10.61    | 0.100   |
| L3350N 7550E    | Soil    |      |     | 0.4      | 18.7     | 14.4     | 50       | <0.1     | 12.6     | 4.4      | 514      | 1.05     | 11.8     | 0.4     | 8.6      | 1.0      | 88       | 0.6      | 0.5      | 0.5      | 20      | 3.73     | 0.109   |
| L3350N 7575E    | Soil    |      |     | 0.5      | 18.4     | 20.8     | 73       | 0.1      | 18.6     | 6.2      | 780      | 1.40     | 15.2     | 0.6     | 294.1    | 1.7      | 59       | 0.5      | 0.6      | 0.7      | 28      | 2.31     | 0.110   |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method          | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte         | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit            | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL             | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3350N 7162.5E  | Soil  | 7     | 17    | 0.31  | 132   | 0.068 | 2     | 1.47  | 0.018 | 0.06  | 0.2   | 0.01  | 1.7   | <0.1  | <0.05 | 4     | <0.5  |
| L3350N 7175E    | Soil  | 4     | 8     | 0.13  | 115   | 0.048 | 3     | 0.78  | 0.022 | 0.06  | <0.1  | 0.02  | 1.0   | <0.1  | <0.05 | 3     | 0.5   |
| L3350N 7187.5E  | Soil  | 9     | 19    | 0.24  | 115   | 0.069 | 3     | 1.37  | 0.020 | 0.10  | 0.2   | 0.02  | 2.0   | <0.1  | <0.05 | 4     | <0.5  |
| L3350N 7200E    | Soil  | 7     | 19    | 0.26  | 121   | 0.075 | 2     | 1.42  | 0.021 | 0.10  | 0.2   | 0.01  | 1.9   | <0.1  | <0.05 | 4     | <0.5  |
| L3350N 7212.5E  | Soil  | 12    | 27    | 0.39  | 126   | 0.090 | 3     | 1.78  | 0.025 | 0.13  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3350N 7225E    | Soil  | 9     | 22    | 0.34  | 141   | 0.075 | 2     | 1.46  | 0.020 | 0.12  | 0.2   | <0.01 | 2.0   | <0.1  | <0.05 | 5     | <0.5  |
| L3350N 7237.5E  | Soil  | 10    | 18    | 0.60  | 184   | 0.081 | 3     | 1.76  | 0.026 | 0.13  | 0.1   | 0.02  | 1.8   | 0.1   | <0.05 | 4     | <0.5  |
| L3350N 7237.5AE | Soil  | 21    | 29    | 0.46  | 150   | 0.096 | 2     | 1.83  | 0.020 | 0.15  | 0.2   | 0.01  | 3.3   | 0.1   | <0.05 | 5     | <0.5  |
| L3350N 7250E    | Soil  | 9     | 17    | 0.36  | 134   | 0.080 | 3     | 1.52  | 0.023 | 0.17  | <0.1  | 0.01  | 1.9   | 0.1   | <0.05 | 4     | <0.5  |
| L3350N 7262.5E  | Soil  | 13    | 39    | 1.65  | 192   | 0.094 | 6     | 2.18  | 0.024 | 0.15  | 0.1   | 0.03  | 3.6   | 0.2   | <0.05 | 6     | <0.5  |
| L3350N 7275E    | Soil  | 5     | 13    | 0.67  | 159   | 0.052 | 4     | 1.09  | 0.024 | 0.07  | <0.1  | 0.02  | 1.7   | 0.1   | <0.05 | 3     | <0.5  |
| L3350N 7287.5E  | Soil  | 16    | 32    | 0.52  | 139   | 0.115 | 2     | 2.27  | 0.019 | 0.16  | 0.2   | 0.01  | 3.6   | 0.2   | <0.05 | 6     | 0.6   |
| L3350N 7300E    | Soil  | 17    | 34    | 0.87  | 148   | 0.098 | 4     | 2.36  | 0.023 | 0.11  | 0.1   | 0.02  | 4.3   | 0.2   | <0.05 | 6     | 2.8   |
| L3350N 7312.5E  | Soil  | 15    | 33    | 0.79  | 109   | 0.066 | 3     | 1.81  | 0.028 | 0.09  | 0.2   | 0.02  | 3.7   | 0.2   | <0.05 | 5     | 1.5   |
| L3350N 7325E    | Soil  | 11    | 25    | 0.56  | 134   | 0.067 | 4     | 1.48  | 0.026 | 0.08  | 0.2   | 0.03  | 2.8   | 0.2   | <0.05 | 4     | <0.5  |
| L3350N 7337.5E  | Soil  | 10    | 30    | 0.44  | 85    | 0.106 | 2     | 1.94  | 0.017 | 0.13  | 0.2   | 0.02  | 2.5   | 0.2   | <0.05 | 5     | 0.5   |
| L3350N 7350E    | Soil  | 10    | 23    | 0.34  | 100   | 0.098 | 2     | 2.08  | 0.026 | 0.11  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| L3350N 7362.5E  | Soil  | 12    | 25    | 0.37  | 130   | 0.095 | 3     | 1.86  | 0.021 | 0.18  | 0.2   | 0.01  | 2.8   | 0.1   | <0.05 | 5     | <0.5  |
| L3350N 7375E    | Soil  | 9     | 21    | 0.33  | 90    | 0.071 | 2     | 1.47  | 0.022 | 0.08  | 0.1   | 0.01  | 2.1   | <0.1  | <0.05 | 4     | <0.5  |
| L3350N 7387.5E  | Soil  | 16    | 37    | 0.49  | 128   | 0.116 | 4     | 2.04  | 0.018 | 0.20  | 0.2   | 0.01  | 3.7   | 0.2   | <0.05 | 6     | <0.5  |
| L3350N 7400E    | Soil  | 13    | 28    | 0.37  | 126   | 0.106 | 4     | 1.68  | 0.022 | 0.24  | 0.2   | 0.01  | 3.1   | 0.2   | <0.05 | 5     | <0.5  |
| L3350N 7412.5E  | Soil  | 12    | 23    | 0.34  | 154   | 0.099 | 4     | 2.02  | 0.032 | 0.16  | 0.2   | 0.02  | 2.9   | 0.1   | <0.05 | 5     | <0.5  |
| L3350N 7425E    | Soil  | 5     | 11    | 0.22  | 114   | 0.052 | 5     | 1.01  | 0.028 | 0.07  | <0.1  | 0.03  | 1.1   | 0.1   | <0.05 | 2     | 0.5   |
| L3350N 7437.5E  | Soil  | 9     | 19    | 0.40  | 144   | 0.066 | 5     | 1.62  | 0.031 | 0.11  | 0.1   | 0.02  | 2.1   | 0.2   | <0.05 | 4     | 0.8   |
| L3350N 7450E    | Soil  | 8     | 33    | 0.63  | 126   | 0.052 | 5     | 1.72  | 0.031 | 0.10  | 0.1   | 0.03  | 2.7   | 0.2   | 0.05  | 4     | 0.9   |
| L3350N 7500E    | Soil  | 14    | 33    | 0.76  | 154   | 0.077 | 5     | 2.13  | 0.034 | 0.13  | 0.2   | 0.02  | 3.3   | 0.3   | <0.05 | 6     | 0.7   |
| L3350N 7562.5E  | Soil  | 8     | 16    | 0.40  | 203   | 0.063 | 7     | 1.16  | 0.023 | 0.14  | 0.1   | 0.04  | 1.8   | 0.3   | <0.05 | 3     | <0.5  |
| L3350N 7537.5E  | Soil  | 5     | 8     | 0.21  | 96    | 0.028 | 7     | 0.57  | 0.021 | 0.07  | <0.1  | 0.02  | 0.5   | 0.2   | 0.07  | 2     | 0.9   |
| L3350N 7550E    | Soil  | 7     | 12    | 0.29  | 127   | 0.045 | 9     | 0.79  | 0.018 | 0.17  | <0.1  | 0.03  | 1.3   | 0.2   | <0.05 | 2     | <0.5  |
| L3350N 7575E    | Soil  | 10    | 17    | 0.49  | 144   | 0.072 | 5     | 1.46  | 0.025 | 0.14  | <0.1  | 0.02  | 1.9   | 0.3   | <0.05 | 4     | <0.5  |

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Project: 41

Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method Analyte Unit MDL | 1DX15 Mo ppm 0.1 | 1DX15 Cu ppm 0.1 | 1DX15 Pb ppm 0.1 | 1DX15 Zn ppm 1 | 1DX15 Ag ppm 0.1 | 1DX15 Ni ppm 0.1 | 1DX15 Co ppm 0.1 | 1DX15 Mn ppm 1 | 1DX15 Fe % 0.01 | 1DX15 As ppm 0.5 | 1DX15 U ppm 0.1 | 1DX15 Au ppb 0.5 | 1DX15 Th ppm 0.1 | 1DX15 Sr ppm 1 | 1DX15 Cd ppm 0.1 | 1DX15 Sb ppm 0.1 | 1DX15 Bi ppm 0.1 | 1DX15 V ppm 2 | 1DX15 Ca % 0.01 | 1DX15 P % 0.001 |       |
|-------------------------|------------------|------------------|------------------|----------------|------------------|------------------|------------------|----------------|-----------------|------------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|---------------|-----------------|-----------------|-------|
| L3350N 7587.5E          | Soil             | 0.5              | 26.7             | 12.6           | 84               | 0.1              | 24.7             | 6.9            | 621             | 1.51             | 19.5            | 0.6              | 3.0              | 1.6            | 123              | 0.8              | 0.8              | 0.8           | 26              | 5.92            | 0.129 |
| L3350N 7600E            | Soil             | 0.6              | 22.9             | 11.6           | 89               | 0.1              | 27.4             | 8.6            | 608             | 1.75             | 15.7            | 0.6              | 3.0              | 2.2            | 75               | 0.7              | 0.5              | 0.9           | 33              | 4.20            | 0.085 |
| L3350N 7612.5E          | Soil             | 0.3              | 13.3             | 4.6            | 68               | <0.1             | 7.5              | 2.6            | 263             | 0.68             | 8.0             | 0.3              | <0.5             | 0.7            | 28               | 0.3              | 0.3              | 0.3           | 17              | 0.53            | 0.056 |
| L3350N 7625E            | Soil             | 0.8              | 74.6             | 19.9           | 254              | 0.1              | 51.8             | 13.6           | 535             | 2.06             | 30.1            | 0.9              | 8.0              | 3.6            | 86               | 1.2              | 0.8              | 1.4           | 34              | 3.25            | 0.170 |
| L3350N 7637.5E          | Soil             | 0.2              | 12.4             | 6.6            | 89               | <0.1             | 4.1              | 1.8            | 270             | 0.60             | 2.6             | 0.3              | <0.5             | 0.3            | 32               | 0.3              | 0.2              | 0.2           | 18              | 0.63            | 0.137 |
| L3350N 7650E            | Soil             | 0.7              | 32.8             | 16.5           | 372              | 0.2              | 26.4             | 6.6            | 987             | 1.40             | 17.4            | 1.2              | 1.8              | 1.5            | 125              | 1.3              | 0.6              | 1.1           | 24              | 3.37            | 0.278 |
| L3300N 7150E            | Soil             | 0.4              | 49.2             | 9.0            | 203              | <0.1             | 20.8             | 5.2            | 504             | 1.39             | 10.1            | 0.6              | 1.2              | 1.9            | 32               | 0.9              | 0.3              | 0.3           | 28              | 0.25            | 0.127 |
| L3300N 7162.5E          | Soil             | 0.4              | 13.8             | 8.1            | 215              | <0.1             | 17.7             | 5.3            | 522             | 1.26             | 11.3            | 0.7              | <0.5             | 1.6            | 48               | 1.6              | 0.6              | 0.2           | 25              | 0.68            | 0.130 |
| L3300N 7175E            | Soil             | 0.7              | 26.6             | 8.6            | 76               | <0.1             | 16.5             | 6.3            | 291             | 1.60             | 12.8            | 0.6              | 2.6              | 2.9            | 34               | 0.3              | 0.2              | 0.2           | 34              | 0.25            | 0.063 |
| L3300N 7187.5E          | Soil             | 0.6              | 32.1             | 11.5           | 90               | <0.1             | 20.4             | 7.6            | 604             | 1.78             | 11.7            | 0.7              | 2.1              | 3.4            | 43               | 0.5              | 0.3              | 0.2           | 43              | 0.33            | 0.100 |
| L3300N 7200E            | Soil             | 0.7              | 19.7             | 11.7           | 83               | <0.1             | 14.9             | 6.3            | 556             | 1.50             | 11.9            | 0.5              | 2.6              | 1.9            | 30               | 0.6              | 0.3              | 0.3           | 39              | 0.32            | 0.067 |
| L3300N 7212.5E          | Soil             | 0.4              | 19.1             | 10.7           | 131              | <0.1             | 21.2             | 7.8            | 634             | 1.75             | 14.5            | 1.0              | 1.9              | 2.5            | 45               | 1.1              | 0.5              | 0.2           | 54              | 0.48            | 0.103 |
| L3300N 7225E            | Soil             | 0.5              | 27.6             | 32.9           | 141              | 0.2              | 21.2             | 8.1            | 589             | 1.95             | 11.1            | 1.0              | 3.4              | 3.0            | 39               | 0.8              | 0.4              | 0.8           | 52              | 0.41            | 0.050 |
| L3300N 7237.5E          | Soil             | 0.3              | 18.8             | 17.9           | 124              | <0.1             | 17.2             | 6.5            | 439             | 1.28             | 11.9            | 1.2              | 0.9              | 1.3            | 40               | 0.8              | 2.0              | 1.2           | 32              | 0.68            | 0.066 |
| L3300N 7250E            | Soil             | 0.5              | 13.7             | 10.5           | 73               | <0.1             | 15.2             | 6.4            | 451             | 1.72             | 7.1             | 0.6              | 1.1              | 3.0            | 30               | 0.2              | 0.3              | 0.2           | 41              | 0.27            | 0.045 |
| L3300N 7262.5E          | Soil             | 1.0              | 18.6             | 26.2           | 116              | <0.1             | 20.1             | 8.0            | 605             | 2.14             | 9.9             | 1.1              | 1.6              | 3.7            | 43               | 0.4              | 0.4              | 0.3           | 49              | 0.36            | 0.046 |
| L3300N 7275E            | Soil             | 0.5              | 23.3             | 12.4           | 80               | <0.1             | 16.8             | 6.0            | 506             | 1.61             | 11.1            | 0.6              | 1.6              | 2.7            | 45               | 0.7              | 0.3              | 0.3           | 36              | 0.33            | 0.068 |
| L3300N 7287.5E          | Soil             | 0.6              | 21.3             | 11.8           | 82               | <0.1             | 18.4             | 6.3            | 521             | 1.76             | 8.6             | 0.7              | 1.5              | 2.9            | 55               | 0.5              | 0.3              | 0.2           | 39              | 0.37            | 0.050 |
| L3300N 7300E            | Soil             | 0.4              | 19.7             | 14.2           | 141              | <0.1             | 22.0             | 7.2            | 595             | 1.96             | 13.7            | 0.8              | 14.3             | 3.7            | 87               | 1.5              | 0.3              | 0.2           | 42              | 0.55            | 0.110 |
| L3300N 7312.5E          | Soil             | 0.4              | 21.6             | 23.9           | 102              | <0.1             | 18.9             | 6.4            | 905             | 1.76             | 6.2             | 0.6              | 2.6              | 2.7            | 131              | 1.3              | 0.3              | 0.4           | 39              | 1.05            | 0.052 |
| L3300N 7325E            | Soil             | 0.8              | 27.4             | 17.9           | 161              | 0.3              | 33.9             | 7.9            | 351             | 2.43             | 16.6            | 1.4              | 2.2              | 4.1            | 183              | 1.5              | 0.4              | 0.2           | 66              | 1.44            | 0.203 |
| L3300N 7337.5E          | Soil             | 0.4              | 13.5             | 5.2            | 103              | <0.1             | 12.1             | 2.8            | 399             | 0.82             | 5.2             | 0.6              | 1.4              | 0.8            | 102              | 1.7              | 0.2              | <0.1          | 38              | 0.53            | 0.137 |
| L3300N 7350E            | Soil             | 0.6              | 33.2             | 13.1           | 177              | 0.2              | 34.2             | 6.6            | 579             | 1.71             | 11.6            | 1.5              | 0.9              | 1.9            | 304              | 3.8              | 0.4              | 0.2           | 66              | 2.26            | 0.218 |
| L3300N 7362.5E          | Soil             | 0.4              | 27.0             | 11.8           | 181              | <0.1             | 23.3             | 6.6            | 657             | 1.49             | 10.4            | 0.8              | 1.9              | 2.2            | 63               | 1.0              | 0.5              | 4.3           | 37              | 0.62            | 0.085 |
| L3300N 7375E            | Soil             | 0.5              | 30.9             | 45.4           | 205              | 0.1              | 19.0             | 7.0            | 1946            | 1.57             | 9.1             | 0.5              | 3.6              | 1.8            | 41               | 1.8              | 0.5              | 0.7           | 49              | 1.01            | 0.106 |
| L3300N 7387.5E          | Soil             | 0.9              | 29.3             | 25.4           | 147              | 0.6              | 15.3             | 6.2            | 1643            | 1.75             | 19.4            | 0.6              | 7.0              | 1.7            | 67               | 1.4              | 1.0              | 0.3           | 39              | 1.24            | 0.172 |
| L3300N 7400E            | Soil             | 0.8              | 32.2             | 23.6           | 97               | 0.5              | 22.0             | 6.9            | 1198            | 1.73             | 19.7            | 0.8              | 2.5              | 1.3            | 57               | 0.9              | 2.5              | 0.3           | 42              | 0.90            | 0.159 |
| L3300N 7412E            | Soil             | 0.9              | 22.4             | 20.9           | 86               | 0.2              | 21.9             | 6.7            | 1021            | 1.77             | 26.5            | 0.8              | 2.3              | 1.0            | 99               | 0.7              | 0.6              | 0.3           | 42              | 1.06            | 0.173 |
| L3300N 7425E            | Soil             | 1.1              | 24.8             | 18.4           | 100              | 0.2              | 25.0             | 8.8            | 1474            | 2.00             | 21.7            | 0.9              | 2.4              | 1.4            | 66               | 0.8              | 0.7              | 0.3           | 48              | 1.21            | 0.225 |
| L3300N 7437.5E          | Soil             | 0.9              | 36.2             | 52.1           | 116              | 0.3              | 23.0             | 8.0            | 1455            | 2.00             | 24.0            | 0.8              | 3.8              | 1.5            | 54               | 1.4              | 1.1              | 0.8           | 44              | 1.47            | 0.230 |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            |      |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |      |
| L3350N 7587.5E                   | Soil           | 12             | 20              | 0.52           | 165              | 0.064         | 12              | 1.43             | 0.020          | 0.17            | 0.1               | 0.03             | 2.1              | 0.3            | <0.05          | 4                | 0.6  |
| L3350N 7600E                     | Soil           | 12             | 24              | 0.61           | 145              | 0.075         | 10              | 1.44             | 0.025          | 0.19            | 0.2               | 0.02             | 2.4              | 0.4            | <0.05          | 4                | <0.5 |
| L3350N 7612.5E                   | Soil           | 4              | 7               | 0.17           | 81               | 0.042         | 2               | 0.55             | 0.027          | 0.05            | <0.1              | 0.02             | 0.9              | 0.1            | <0.05          | 2                | <0.5 |
| L3350N 7625E                     | Soil           | 16             | 30              | 0.67           | 186              | 0.097         | 14              | 1.95             | 0.022          | 0.21            | 0.3               | 0.04             | 2.9              | 0.4            | <0.05          | 5                | 0.7  |
| L3350N 7637.5E                   | Soil           | 2              | 5               | 0.10           | 86               | 0.039         | 2               | 0.37             | 0.027          | 0.06            | <0.1              | 0.01             | 0.5              | <0.1           | <0.05          | <1               | <0.5 |
| L3350N 7650E                     | Soil           | 9              | 19              | 0.71           | 245              | 0.051         | 8               | 1.36             | 0.023          | 0.10            | 0.2               | 0.03             | 1.9              | 0.2            | <0.05          | 3                | <0.5 |
| L3300N 7150E                     | Soil           | 8              | 13              | 0.25           | 153              | 0.073         | 3               | 1.58             | 0.029          | 0.08            | 0.1               | <0.01            | 1.8              | 0.1            | <0.05          | 4                | <0.5 |
| L3300N 7162.5E                   | Soil           | 8              | 11              | 0.16           | 143              | 0.061         | 5               | 0.94             | 0.026          | 0.08            | <0.1              | 0.02             | 1.3              | <0.1           | <0.05          | 3                | <0.5 |
| L3300N 7175E                     | Soil           | 12             | 20              | 0.33           | 103              | 0.087         | 2               | 1.65             | 0.028          | 0.11            | 0.1               | 0.01             | 2.2              | 0.1            | <0.05          | 4                | <0.5 |
| L3300N 7187.5E                   | Soil           | 13             | 23              | 0.44           | 173              | 0.098         | 2               | 1.90             | 0.031          | 0.15            | 0.1               | 0.02             | 2.5              | 0.1            | <0.05          | 5                | <0.5 |
| L3300N 7200E                     | Soil           | 7              | 20              | 0.43           | 107              | 0.080         | 3               | 1.45             | 0.024          | 0.12            | 0.1               | 0.02             | 1.7              | 0.1            | <0.05          | 4                | <0.5 |
| L3300N 7212.5E                   | Soil           | 11             | 28              | 1.06           | 172              | 0.087         | 6               | 1.95             | 0.024          | 0.19            | 0.1               | 0.02             | 2.6              | 0.2            | <0.05          | 5                | <0.5 |
| L3300N 7225E                     | Soil           | 12             | 28              | 0.85           | 143              | 0.085         | 4               | 2.05             | 0.019          | 0.14            | 0.1               | 0.02             | 3.1              | 0.2            | <0.05          | 6                | 0.6  |
| L3300N 7237.5E                   | Soil           | 6              | 19              | 1.23           | 93               | 0.064         | 12              | 1.45             | 0.023          | 0.06            | 0.2               | 0.01             | 2.2              | 0.2            | <0.05          | 4                | 1.1  |
| L3300N 7250E                     | Soil           | 9              | 22              | 0.34           | 117              | 0.083         | 2               | 1.69             | 0.017          | 0.11            | 0.2               | 0.01             | 2.0              | 0.1            | <0.05          | 5                | <0.5 |
| L3300N 7262.5E                   | Soil           | 16             | 28              | 0.48           | 149              | 0.099         | 3               | 2.22             | 0.016          | 0.19            | 0.3               | <0.01            | 3.0              | 0.2            | <0.05          | 6                | <0.5 |
| L3300N 7275E                     | Soil           | 10             | 19              | 0.34           | 135              | 0.088         | 3               | 1.93             | 0.024          | 0.13            | 0.1               | 0.01             | 2.4              | 0.1            | <0.05          | 5                | <0.5 |
| L3300N 7287.5E                   | Soil           | 12             | 21              | 0.39           | 130              | 0.082         | 3               | 1.87             | 0.023          | 0.14            | <0.1              | 0.02             | 2.6              | 0.1            | <0.05          | 5                | <0.5 |
| L3300N 7300E                     | Soil           | 16             | 24              | 0.47           | 171              | 0.084         | 5               | 2.32             | 0.022          | 0.19            | 0.1               | 0.03             | 3.2              | 0.2            | <0.05          | 6                | <0.5 |
| L3300N 7312.5E                   | Soil           | 15             | 24              | 0.44           | 146              | 0.066         | 5               | 1.70             | 0.023          | 0.20            | <0.1              | 0.03             | 3.1              | 0.1            | <0.05          | 5                | 0.6  |
| L3300N 7325E                     | Soil           | 22             | 35              | 0.79           | 153              | 0.068         | 7               | 2.65             | 0.021          | 0.28            | 0.2               | 0.04             | 4.7              | 0.2            | <0.05          | 7                | 0.8  |
| L3300N 7337.5E                   | Soil           | 4              | 12              | 0.24           | 76               | 0.047         | 2               | 0.79             | 0.025          | 0.07            | <0.1              | 0.01             | 1.2              | <0.1           | <0.05          | 2                | <0.5 |
| L3300N 7350E                     | Soil           | 13             | 31              | 0.56           | 120              | 0.054         | 4               | 1.52             | 0.021          | 0.12            | <0.1              | 0.03             | 3.4              | 0.1            | <0.05          | 4                | 2.0  |
| L3300N 7362.5E                   | Soil           | 10             | 23              | 0.37           | 91               | 0.079         | 5               | 1.54             | 0.023          | 0.13            | 0.2               | 0.02             | 2.3              | 0.1            | <0.05          | 4                | <0.5 |
| L3300N 7375E                     | Soil           | 9              | 31              | 0.57           | 194              | 0.066         | 4               | 1.45             | 0.023          | 0.12            | 1.1               | 0.03             | 2.7              | 0.2            | <0.05          | 4                | <0.5 |
| L3300N 7387.5E                   | Soil           | 11             | 21              | 0.42           | 172              | 0.065         | 6               | 1.75             | 0.025          | 0.10            | 4.3               | 0.04             | 2.2              | 0.2            | <0.05          | 5                | 0.6  |
| L3300N 7400E                     | Soil           | 9              | 30              | 0.59           | 150              | 0.061         | 4               | 1.78             | 0.026          | 0.10            | 0.6               | 0.04             | 2.6              | 0.2            | <0.05          | 5                | 1.5  |
| L3300N 7412E                     | Soil           | 9              | 33              | 0.68           | 179              | 0.058         | 5               | 1.86             | 0.027          | 0.14            | 0.1               | 0.03             | 2.4              | 0.2            | <0.05          | 5                | 1.5  |
| L3300N 7425E                     | Soil           | 11             | 32              | 0.69           | 203              | 0.067         | 7               | 2.09             | 0.029          | 0.14            | 0.3               | 0.02             | 2.9              | 0.2            | <0.05          | 5                | 1.0  |
| L3300N 7437.5E                   | Soil           | 12             | 30              | 0.66           | 194              | 0.071         | 11              | 2.11             | 0.025          | 0.17            | 0.3               | 0.03             | 2.6              | 0.2            | 0.05           | 5                | 0.9  |





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Report Date: January 15, 2008

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CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method         | Analyte | Unit | MDL | 1DX15 Mo | 1DX15 Cu | 1DX15 Pb | 1DX15 Zn | 1DX15 Ag | 1DX15 Ni | 1DX15 Co | 1DX15 Mn | 1DX15 Fe | 1DX15 As | 1DX15 U | 1DX15 Au | 1DX15 Th | 1DX15 Sr | 1DX15 Cd | 1DX15 Sb | 1DX15 Bi | 1DX15 V | 1DX15 Ca | 1DX15 P |
|----------------|---------|------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|---------|----------|---------|
|                |         |      |     | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm     | ppb      | ppm      | ppm      | ppm      | ppm      | ppm      | ppm     | %        | %       |
|                |         |      |     | 0.1      | 0.1      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 1        | 0.01     | 0.5      | 0.1     | 0.5      | 0.1      | 1        | 0.1      | 0.1      | 0.1      | 2       | 0.01     | 0.001   |
| L3300N 7450E   | Soil    |      |     | 0.8      | 32.6     | 20.1     | 102      | 0.2      | 34.7     | 10.0     | 1326     | 2.21     | 26.7     | 0.9     | 3.8      | 1.6      | 49       | 0.9      | 0.8      | 0.4      | 51      | 1.15     | 0.190   |
| L3300N 7462.5E | Soil    |      |     | 0.8      | 28.5     | 19.6     | 106      | 0.2      | 31.0     | 10.2     | 1090     | 2.26     | 24.9     | 0.9     | 4.3      | 2.5      | 45       | 0.7      | 0.7      | 0.4      | 50      | 0.87     | 0.174   |
| L3300N 7475E   | Soil    |      |     | 0.7      | 26.8     | 18.9     | 87       | 0.2      | 19.9     | 7.0      | 970      | 1.69     | 19.0     | 0.7     | 1.9      | 1.0      | 61       | 0.7      | 0.7      | 0.4      | 37      | 1.34     | 0.194   |
| L3300N 7487.5E | Soil    |      |     | 0.7      | 25.5     | 25.4     | 98       | 0.1      | 24.9     | 7.9      | 982      | 1.83     | 20.4     | 0.9     | 1.9      | 1.4      | 64       | 0.7      | 0.7      | 0.6      | 41      | 1.46     | 0.199   |
| L3300N 7500E   | Soil    |      |     | 1.0      | 32.0     | 27.6     | 85       | 0.2      | 23.8     | 7.3      | 980      | 1.56     | 22.4     | 0.8     | 3.4      | 0.9      | 62       | 0.6      | 0.9      | 25.0     | 35      | 1.78     | 0.184   |
| L3300N 7512E   | Soil    |      |     | 1.1      | 24.3     | 28.7     | 86       | 0.1      | 26.5     | 8.1      | 809      | 1.79     | 25.3     | 0.9     | 7.0      | 2.3      | 57       | 0.7      | 1.5      | 41.1     | 37      | 1.45     | 0.137   |
| L3300N 7525E   | Soil    |      |     | 1.7      | 22.5     | 35.3     | 184      | 0.2      | 31.1     | 10.7     | 827      | 2.11     | 32.1     | 1.0     | 15.7     | 3.1      | 58       | 0.9      | 2.1      | 48.8     | 41      | 1.18     | 0.137   |
| L3300N 7537.5E | Soil    |      |     | 0.6      | 16.1     | 21.9     | 261      | <0.1     | 16.3     | 5.4      | 717      | 1.36     | 8.8      | 0.5     | 10.7     | 1.7      | 40       | 1.1      | 0.6      | 15.0     | 27      | 0.79     | 0.069   |
| L3300N 7550E   | Soil    |      |     | 0.6      | 25.6     | 29.9     | 272      | <0.1     | 25.3     | 8.3      | 851      | 1.95     | 9.5      | 0.6     | 5.1      | 3.0      | 39       | 1.2      | 0.5      | 7.1      | 36      | 0.67     | 0.052   |
| L3300N 7562.5E | Soil    |      |     | 0.5      | 28.5     | 21.6     | 264      | <0.1     | 25.7     | 9.9      | 900      | 2.04     | 12.7     | 0.6     | 1.9      | 3.4      | 36       | 1.2      | 0.4      | 6.7      | 37      | 0.81     | 0.082   |
| L3300N 7575E   | Soil    |      |     | 0.6      | 30.1     | 22.9     | 172      | <0.1     | 23.4     | 9.0      | 798      | 1.97     | 13.4     | 0.6     | 4.3      | 2.9      | 31       | 1.0      | 0.5      | 4.9      | 38      | 0.56     | 0.096   |
| L3300N 7587.5E | Soil    |      |     | 0.5      | 32.0     | 16.2     | 127      | <0.1     | 21.5     | 7.9      | 670      | 1.89     | 9.7      | 0.4     | 3.9      | 2.4      | 42       | 0.7      | 0.3      | 3.2      | 37      | 1.05     | 0.062   |
| L3300N 7600E   | Soil    |      |     | 0.6      | 31.0     | 17.6     | 183      | <0.1     | 28.3     | 11.9     | 811      | 1.95     | 12.5     | 0.6     | 2.8      | 2.6      | 33       | 0.7      | 0.5      | 2.5      | 37      | 0.70     | 0.086   |
| L3300N 7612.5E | Soil    |      |     | 0.4      | 25.8     | 22.5     | 216      | <0.1     | 16.3     | 6.8      | 925      | 1.36     | 8.4      | 0.4     | 8.4      | 1.6      | 24       | 0.7      | 0.3      | 1.3      | 27      | 0.43     | 0.058   |
| L3300N 7625E   | Soil    |      |     | 0.2      | 27.6     | 7.0      | 183      | <0.1     | 8.3      | 3.6      | 548      | 0.75     | 6.2      | 0.2     | 2.1      | 0.7      | 23       | 0.7      | 0.2      | 0.7      | 19      | 0.46     | 0.081   |
| L3300N 7625AE  | Soil    |      |     | 0.6      | 116.3    | 12.3     | 123      | 0.2      | 6.8      | 16.0     | 431      | 3.11     | 17.2     | 0.5     | 5.4      | 1.0      | 20       | 0.7      | 0.4      | 2.9      | 23      | 0.29     | 0.103   |
| L3300N 7637.5E | Soil    |      |     | 0.4      | 48.1     | 32.9     | 348      | <0.1     | 13.7     | 5.9      | 1170     | 1.16     | 10.1     | 0.4     | 7.4      | 1.1      | 35       | 2.8      | 0.4      | 1.1      | 24      | 0.77     | 0.095   |
| L3300N 7650E   | Soil    |      |     | 0.3      | 19.9     | 7.0      | 227      | <0.1     | 11.8     | 3.8      | 373      | 0.75     | 7.8      | 0.4     | 1.2      | 0.7      | 28       | 0.8      | 0.2      | 0.5      | 18      | 0.65     | 0.102   |
| L3250N 7150E   | Soil    |      |     | 0.9      | 22.5     | 10.8     | 143      | <0.1     | 16.6     | 6.4      | 379      | 1.81     | 11.0     | 0.6     | 1.7      | 3.1      | 39       | 0.6      | 0.2      | 0.3      | 32      | 0.28     | 0.235   |
| L3250N 7162.5E | Soil    |      |     | 0.5      | 21.0     | 6.6      | 53       | <0.1     | 12.8     | 4.7      | 180      | 1.37     | 6.1      | 0.3     | 0.5      | 2.3      | 72       | 0.3      | 0.2      | 0.2      | 24      | 0.72     | 0.054   |
| L3250N 7175E   | Soil    |      |     | 0.5      | 18.1     | 7.5      | 49       | <0.1     | 12.4     | 4.6      | 192      | 1.35     | 11.0     | 0.5     | 0.8      | 2.4      | 32       | 0.2      | 0.2      | 0.2      | 23      | 0.26     | 0.106   |
| L3250N 7187.5E | Soil    |      |     | 0.7      | 31.2     | 9.7      | 74       | 0.1      | 17.0     | 5.6      | 246      | 1.66     | 8.1      | 0.6     | 2.3      | 3.4      | 38       | 0.5      | 0.2      | 0.2      | 33      | 0.31     | 0.061   |
| L3250N 7200E   | Soil    |      |     | 0.5      | 34.3     | 11.4     | 97       | <0.1     | 21.8     | 7.5      | 343      | 1.93     | 12.5     | 0.8     | 0.7      | 3.3      | 44       | 0.5      | 0.2      | 0.2      | 39      | 0.35     | 0.146   |
| L3250N 7212.5E | Soil    |      |     | 0.3      | 20.6     | 10.5     | 211      | 0.1      | 12.2     | 4.1      | 972      | 1.06     | 5.2      | 0.8     | 1.7      | 1.3      | 75       | 1.4      | 0.2      | 0.2      | 30      | 1.58     | 0.135   |
| L3250N 7225E   | Soil    |      |     | 0.6      | 25.5     | 10.7     | 93       | <0.1     | 21.4     | 7.1      | 501      | 2.01     | 14.2     | 0.9     | 1.8      | 3.2      | 70       | 0.8      | 0.3      | 0.2      | 45      | 0.46     | 0.093   |
| L3250N 7237.5E | Soil    |      |     | 0.7      | 22.7     | 10.4     | 110      | <0.1     | 24.3     | 8.4      | 530      | 2.24     | 14.3     | 1.2     | 2.1      | 2.9      | 73       | 0.9      | 0.3      | 0.2      | 59      | 0.44     | 0.056   |
| L3250N 7250E   | Soil    |      |     | 0.7      | 21.5     | 9.8      | 134      | <0.1     | 15.3     | 4.8      | 796      | 1.52     | 8.7      | 0.8     | 0.9      | 1.5      | 110      | 2.1      | 0.3      | 0.3      | 40      | 0.94     | 0.128   |
| L3250N 7262.5E | Soil    |      |     | 0.5      | 18.1     | 9.4      | 132      | 0.1      | 18.0     | 5.2      | 467      | 1.68     | 12.5     | 1.0     | 3.0      | 2.2      | 92       | 1.3      | 0.2      | 0.2      | 49      | 0.64     | 0.147   |
| L3250N 7275E   | Soil    |      |     | 0.4      | 17.9     | 7.5      | 88       | 0.1      | 12.4     | 4.1      | 390      | 1.23     | 16.4     | 0.5     | 0.6      | 1.5      | 123      | 1.1      | 0.4      | 0.2      | 32      | 1.02     | 0.099   |
| L3250N 7287.5E | Soil    |      |     | 0.3      | 22.2     | 11.2     | 119      | 0.2      | 12.4     | 3.9      | 640      | 1.20     | 9.2      | 0.6     | 1.1      | 1.2      | 123      | 1.3      | 0.3      | 0.3      | 27      | 0.98     | 0.136   |

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Report Date: January 15, 2008

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# CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | La    | Cr    | Mg    | Ba    | Ti    | B     | Al    | Na    | K     | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit           | ppm   | ppm   | %     | ppm   | %     | ppm   | %     | %     | %     | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL            | 1     | 1     | 0.01  | 1     | 0.001 | 1     | 0.01  | 0.001 | 0.01  | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| L3300N 7450E   | Soil  | 16    | 55    | 0.83  | 177   | 0.075 | 6     | 2.40  | 0.033 | 0.15  | 0.2   | 0.02  | 3.7   | 0.3   | <0.05 | 6     | <0.5  |
| L3300N 7462.5E | Soil  | 15    | 42    | 0.71  | 189   | 0.089 | 5     | 2.29  | 0.026 | 0.21  | 0.3   | 0.02  | 3.6   | 0.3   | <0.05 | 6     | <0.5  |
| L3300N 7475E   | Soil  | 12    | 26    | 0.59  | 151   | 0.059 | 6     | 1.82  | 0.028 | 0.16  | 0.1   | 0.02  | 2.1   | 0.2   | <0.05 | 5     | 0.7   |
| L3300N 7487.5E | Soil  | 12    | 32    | 0.84  | 147   | 0.067 | 8     | 1.96  | 0.025 | 0.18  | 0.1   | 0.02  | 2.6   | 0.3   | <0.05 | 5     | 0.6   |
| L3300N 7500E   | Soil  | 14    | 28    | 0.68  | 108   | 0.048 | 7     | 1.48  | 0.024 | 0.14  | 0.2   | 0.03  | 1.8   | 0.2   | <0.05 | 4     | <0.5  |
| L3300N 7512E   | Soil  | 13    | 28    | 0.69  | 114   | 0.075 | 7     | 1.65  | 0.026 | 0.15  | 0.3   | 0.04  | 2.6   | 0.3   | <0.05 | 5     | 0.6   |
| L3300N 7525E   | Soil  | 15    | 33    | 0.78  | 126   | 0.085 | 7     | 1.96  | 0.026 | 0.23  | 0.4   | 0.02  | 3.3   | 0.4   | <0.05 | 5     | 0.7   |
| L3300N 7537.5E | Soil  | 8     | 18    | 0.40  | 90    | 0.064 | 5     | 1.16  | 0.022 | 0.18  | 0.2   | 0.02  | 1.8   | 0.2   | <0.05 | 3     | <0.5  |
| L3300N 7550E   | Soil  | 13    | 27    | 0.50  | 138   | 0.081 | 4     | 1.49  | 0.024 | 0.28  | 0.2   | 0.02  | 2.8   | 0.3   | <0.05 | 5     | <0.5  |
| L3300N 7562.5E | Soil  | 15    | 29    | 0.53  | 333   | 0.086 | 3     | 1.79  | 0.023 | 0.28  | 0.2   | 0.02  | 3.0   | 0.3   | <0.05 | 5     | <0.5  |
| L3300N 7575E   | Soil  | 13    | 25    | 0.56  | 260   | 0.082 | 4     | 1.69  | 0.021 | 0.24  | 0.2   | 0.02  | 2.8   | 0.3   | <0.05 | 5     | <0.5  |
| L3300N 7587.5E | Soil  | 11    | 25    | 0.50  | 203   | 0.078 | 6     | 1.40  | 0.024 | 0.24  | 0.2   | 0.03  | 2.5   | 0.2   | <0.05 | 4     | <0.5  |
| L3300N 7600E   | Soil  | 11    | 22    | 0.47  | 223   | 0.077 | 6     | 1.38  | 0.022 | 0.19  | 0.6   | 0.02  | 2.4   | 0.2   | <0.05 | 4     | 0.6   |
| L3300N 7612.5E | Soil  | 7     | 14    | 0.25  | 206   | 0.062 | 6     | 1.05  | 0.020 | 0.14  | 0.5   | 0.01  | 1.6   | 0.1   | <0.05 | 3     | <0.5  |
| L3300N 7625E   | Soil  | 3     | 8     | 0.19  | 130   | 0.040 | 3     | 0.53  | 0.021 | 0.09  | 0.2   | 0.02  | 0.9   | <0.1  | <0.05 | 2     | <0.5  |
| L3300N 7625AE  | Soil  | 4     | 9     | 0.15  | 117   | 0.048 | 2     | 0.51  | 0.024 | 0.09  | 0.3   | 0.01  | 1.0   | <0.1  | 0.58  | 2     | 0.5   |
| L3300N 7637.5E | Soil  | 5     | 13    | 0.27  | 287   | 0.052 | 4     | 0.69  | 0.022 | 0.09  | 0.3   | 0.04  | 1.3   | 0.1   | <0.05 | 2     | <0.5  |
| L3300N 7650E   | Soil  | 4     | 9     | 0.19  | 144   | 0.046 | 4     | 0.68  | 0.025 | 0.06  | 0.2   | 0.02  | 1.0   | <0.1  | <0.05 | 2     | <0.5  |
| L3250N 7150E   | Soil  | 10    | 21    | 0.31  | 163   | 0.073 | 3     | 1.52  | 0.020 | 0.10  | 0.2   | 0.02  | 2.1   | 0.1   | <0.05 | 5     | 0.6   |
| L3250N 7162.5E | Soil  | 11    | 15    | 0.24  | 84    | 0.062 | 2     | 1.16  | 0.031 | 0.10  | 0.1   | 0.01  | 1.8   | <0.1  | <0.05 | 3     | 0.8   |
| L3250N 7175E   | Soil  | 9     | 15    | 0.24  | 85    | 0.060 | 3     | 1.40  | 0.024 | 0.07  | 0.1   | 0.02  | 1.8   | <0.1  | <0.05 | 3     | <0.5  |
| L3250N 7187.5E | Soil  | 13    | 19    | 0.34  | 97    | 0.082 | 2     | 1.62  | 0.030 | 0.09  | 0.2   | 0.02  | 2.4   | 0.1   | <0.05 | 4     | 0.7   |
| L3250N 7200E   | Soil  | 12    | 24    | 0.59  | 131   | 0.099 | 3     | 2.21  | 0.026 | 0.11  | 0.2   | 0.02  | 2.7   | 0.2   | <0.05 | 6     | 0.9   |
| L3250N 7212.5E | Soil  | 7     | 17    | 1.59  | 159   | 0.069 | 5     | 1.69  | 0.028 | 0.07  | <0.1  | 0.02  | 1.4   | 0.1   | <0.05 | 4     | 0.5   |
| L3250N 7225E   | Soil  | 15    | 26    | 0.52  | 119   | 0.083 | 4     | 1.97  | 0.026 | 0.15  | 0.1   | 0.02  | 3.1   | 0.2   | <0.05 | 6     | 1.1   |
| L3250N 7237.5E | Soil  | 16    | 30    | 0.60  | 100   | 0.084 | 2     | 2.12  | 0.031 | 0.08  | 0.2   | 0.02  | 3.4   | 0.1   | <0.05 | 6     | 1.1   |
| L3250N 7250E   | Soil  | 12    | 18    | 0.37  | 114   | 0.039 | 3     | 1.32  | 0.027 | 0.13  | <0.1  | 0.02  | 3.1   | 0.1   | <0.05 | 4     | 0.8   |
| L3250N 7262.5E | Soil  | 12    | 21    | 0.46  | 102   | 0.069 | 2     | 1.66  | 0.027 | 0.08  | 0.1   | 0.02  | 2.7   | 0.1   | <0.05 | 4     | 1.1   |
| L3250N 7275E   | Soil  | 9     | 16    | 0.31  | 76    | 0.049 | 5     | 1.26  | 0.037 | 0.10  | <0.1  | 0.03  | 2.1   | <0.1  | <0.05 | 4     | 1.0   |
| L3250N 7287.5E | Soil  | 8     | 15    | 0.32  | 107   | 0.048 | 3     | 1.08  | 0.030 | 0.07  | <0.1  | 0.02  | 1.9   | <0.1  | <0.05 | 3     | 0.6   |



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Report Date: January 15, 2008

Page: 6 of 6 Part 1

# CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method         | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |       |
| Unit           | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |       |
| MDL            | 0.1   | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |       |
| L3250N 7300E   | Soil  | 0.3   | 22.2  | 20.2  | 158   | 0.1   | 22.0  | 7.1   | 610   | 1.91  | 23.0  | 1.2   | 1.7   | 2.4   | 217   | 1.7   | 0.6   | 0.3   | 36    | 1.14  | 0.241 |
| L3250N 7312.5E | Soil  | 0.3   | 17.2  | 13.4  | 101   | <0.1  | 19.3  | 7.2   | 440   | 2.06  | 10.9  | 1.4   | 2.2   | 3.4   | 93    | 0.6   | 0.6   | 0.3   | 37    | 0.55  | 0.078 |
| L3250N 7325E   | Soil  | 0.4   | 32.1  | 12.9  | 119   | 0.2   | 20.6  | 7.5   | 625   | 2.04  | 14.0  | 1.0   | 2.7   | 3.3   | 186   | 1.7   | 0.6   | 0.3   | 40    | 1.27  | 0.132 |
| L3250N 7337.5E | Soil  | 0.5   | 48.8  | 13.2  | 170   | 0.1   | 24.8  | 6.9   | 643   | 2.02  | 9.6   | 0.8   | 1.7   | 3.1   | 180   | 3.3   | 0.5   | 0.2   | 45    | 1.04  | 0.192 |
| L3250N 7350E   | Soil  | 0.5   | 35.9  | 26.2  | 323   | 0.2   | 29.4  | 8.9   | 961   | 2.09  | 21.7  | 2.1   | 1.8   | 3.5   | 354   | 5.7   | 1.7   | 0.4   | 50    | 2.13  | 0.240 |
| L3250N 7375E   | Soil  | 0.5   | 34.7  | 28.3  | 115   | 0.7   | 42.1  | 13.6  | 773   | 2.73  | 16.1  | 0.7   | 5.5   | 3.9   | 48    | 0.7   | 0.7   | 1.2   | 58    | 0.63  | 0.051 |
| L3250N 7387.5E | Soil  | 0.7   | 50.1  | 10.5  | 100   | 0.3   | 14.3  | 5.7   | 1326  | 1.41  | 12.7  | 0.6   | 1.9   | 1.2   | 112   | 1.3   | 0.7   | 0.2   | 36    | 3.97  | 0.204 |
| L3250N 7400E   | Soil  | 0.8   | 42.1  | 24.1  | 99    | 0.3   | 18.3  | 6.5   | 1205  | 1.58  | 19.4  | 0.6   | 3.7   | 1.0   | 94    | 1.1   | 1.7   | 0.5   | 39    | 2.47  | 0.156 |
| L3250N 7412.5E | Soil  | 1.2   | 37.0  | 23.1  | 105   | 0.2   | 24.9  | 8.1   | 1486  | 1.98  | 21.5  | 0.8   | 2.9   | 1.1   | 88    | 1.0   | 0.8   | 0.4   | 49    | 1.78  | 0.251 |
| L3250N 7425E   | Soil  | 1.0   | 29.2  | 16.9  | 76    | 0.2   | 20.4  | 8.3   | 1036  | 2.14  | 16.9  | 0.8   | 2.7   | 1.8   | 47    | 0.6   | 0.7   | 0.4   | 49    | 0.99  | 0.139 |
| L3250N 7437.5E | Soil  | 0.5   | 29.9  | 15.5  | 89    | 0.1   | 24.0  | 9.8   | 968   | 2.45  | 16.9  | 0.7   | 2.2   | 2.6   | 47    | 0.7   | 0.6   | 0.4   | 55    | 0.83  | 0.145 |
| L3250N 7475E   | Soil  | 0.9   | 68.2  | 23.2  | 146   | 0.2   | 30.0  | 10.0  | 1202  | 1.96  | 19.3  | 0.9   | 11.9  | 1.5   | 70    | 1.2   | 1.1   | 0.8   | 36    | 1.53  | 0.148 |
| L3250N 7487.5E | Soil  | 0.9   | 39.4  | 20.9  | 107   | 0.1   | 23.8  | 8.5   | 838   | 1.95  | 19.3  | 0.8   | 29.6  | 1.2   | 47    | 0.9   | 0.8   | 0.5   | 47    | 1.11  | 0.154 |
| L3250N 7500E   | Soil  | 0.7   | 39.1  | 17.5  | 100   | 0.2   | 25.0  | 8.6   | 944   | 2.15  | 20.9  | 0.7   | 2.6   | 1.5   | 50    | 0.9   | 0.8   | 0.5   | 50    | 1.11  | 0.176 |
| L3250N 7512.5E | Soil  | 0.9   | 35.3  | 21.8  | 110   | 0.1   | 24.7  | 9.0   | 859   | 2.14  | 24.1  | 0.8   | 9.4   | 1.8   | 54    | 1.1   | 0.8   | 0.5   | 47    | 1.41  | 0.162 |
| L3250N 7525E   | Soil  | 0.9   | 36.5  | 25.9  | 127   | 0.1   | 23.2  | 8.1   | 866   | 2.10  | 27.0  | 0.8   | 2.8   | 1.8   | 52    | 1.0   | 0.9   | 0.6   | 49    | 1.16  | 0.150 |
| L3250N 7537.5E | Soil  | 0.8   | 44.8  | 19.6  | 128   | <0.1  | 28.3  | 11.6  | 785   | 2.55  | 16.6  | 0.8   | 3.4   | 3.7   | 40    | 0.8   | 0.7   | 0.6   | 57    | 0.63  | 0.084 |
| L3250N 7550E   | Soil  | 0.9   | 37.5  | 18.3  | 132   | <0.1  | 28.5  | 11.0  | 772   | 2.39  | 14.0  | 0.9   | 4.7   | 3.7   | 42    | 0.9   | 0.6   | 0.6   | 57    | 0.70  | 0.085 |
| L3250N 7562.5E | Soil  | 1.6   | 71.7  | 29.6  | 164   | 0.1   | 22.6  | 18.0  | 861   | 3.06  | 32.9  | 0.8   | 13.6  | 2.8   | 37    | 1.3   | 1.1   | 2.8   | 45    | 0.53  | 0.099 |
| L3250N 7575E   | Soil  | 1.1   | 135.2 | 36.9  | 332   | 0.2   | 20.2  | 11.6  | 1283  | 2.38  | 42.9  | 0.7   | 12.9  | 2.2   | 53    | 2.9   | 1.7   | 2.9   | 40    | 0.83  | 0.133 |
| L3250N 7587.5E | Soil  | 1.4   | 130.3 | 35.6  | 231   | 0.2   | 21.1  | 12.6  | 1179  | 2.79  | 27.7  | 1.1   | 15.3  | 2.6   | 40    | 1.6   | 1.4   | 3.1   | 47    | 0.62  | 0.105 |
| L3250N 7600E   | Soil  | 1.3   | 159.3 | 31.3  | 322   | 0.4   | 16.7  | 13.0  | 882   | 4.99  | 28.8  | 0.9   | 26.0  | 2.9   | 30    | 0.6   | 1.2   | 3.2   | 44    | 0.36  | 0.188 |
| L3250N 7612.5E | Soil  | 2.1   | 549.1 | 26.3  | 329   | 0.3   | 8.3   | 25.5  | 757   | 9.86  | 42.6  | 1.4   | 11.4  | 1.2   | 38    | 1.9   | 1.4   | 5.3   | 25    | 0.46  | 0.164 |
| 41+15N 462E    | Soil  | 0.6   | 35.2  | 7.7   | 59    | 0.1   | 23.8  | 8.0   | 309   | 2.07  | 18.2  | 0.6   | 2.4   | 3.2   | 25    | 0.1   | 0.2   | 0.2   | 45    | 0.23  | 0.123 |
| 41+08N 470E    | Soil  | 0.6   | 36.6  | 8.1   | 70    | 0.2   | 26.1  | 8.4   | 362   | 2.05  | 14.1  | 0.6   | 3.9   | 3.7   | 27    | 0.2   | 0.2   | 0.2   | 50    | 0.24  | 0.098 |
| 41+98N 478E    | Soil  | 1.0   | 35.4  | 8.3   | 58    | 0.3   | 38.4  | 8.4   | 249   | 2.19  | 22.3  | 0.4   | 2.6   | 4.2   | 42    | 0.3   | 0.3   | 0.2   | 47    | 0.53  | 0.033 |



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Report Date: January 15, 2008

Page: 6 of 6 Part 2

# CERTIFICATE OF ANALYSIS

VAN07002986.1

| Method<br>Analyte<br>Unit<br>MDL | 1DX15          | 1DX15          | 1DX15           | 1DX15          | 1DX15            | 1DX15         | 1DX15           | 1DX15            | 1DX15          | 1DX15           | 1DX15             | 1DX15            | 1DX15            | 1DX15          | 1DX15          | 1DX15            |      |
|----------------------------------|----------------|----------------|-----------------|----------------|------------------|---------------|-----------------|------------------|----------------|-----------------|-------------------|------------------|------------------|----------------|----------------|------------------|------|
|                                  | La<br>ppm<br>1 | Cr<br>ppm<br>1 | Mg<br>%<br>0.01 | Ba<br>ppm<br>1 | Ti<br>%<br>0.001 | B<br>ppm<br>1 | Al<br>%<br>0.01 | Na<br>%<br>0.001 | K<br>%<br>0.01 | W<br>ppm<br>0.1 | Hg<br>ppm<br>0.01 | Sc<br>ppm<br>0.1 | Tl<br>ppm<br>0.1 | S<br>%<br>0.05 | Ga<br>ppm<br>1 | Se<br>ppm<br>0.5 |      |
| L3250N 7300E                     | Soil           | 12             | 26              | 0.45           | 134              | 0.081         | 5               | 1.95             | 0.026          | 0.11            | 0.2               | 0.03             | 3.1              | 0.1            | <0.05          | 5                | 1.0  |
| L3250N 7312.5E                   | Soil           | 17             | 24              | 0.41           | 133              | 0.095         | 7               | 2.23             | 0.031          | 0.12            | 0.2               | 0.02             | 3.3              | 0.1            | <0.05          | 6                | 1.1  |
| L3250N 7325E                     | Soil           | 18             | 23              | 0.43           | 114              | 0.082         | 7               | 1.95             | 0.039          | 0.14            | 0.2               | 0.03             | 3.3              | 0.1            | <0.05          | 5                | 1.1  |
| L3250N 7337.5E                   | Soil           | 19             | 26              | 0.42           | 116              | 0.085         | 6               | 1.77             | 0.029          | 0.12            | 0.1               | 0.02             | 3.1              | 0.1            | <0.05          | 5                | 0.9  |
| L3250N 7350E                     | Soil           | 21             | 31              | 0.46           | 175              | 0.086         | 11              | 1.98             | 0.027          | 0.14            | 0.2               | 0.04             | 3.5              | 0.2            | <0.05          | 5                | 2.2  |
| L3250N 7375E                     | Soil           | 16             | 52              | 0.80           | 167              | 0.154         | 4               | 2.46             | 0.040          | 0.40            | 1.6               | 0.02             | 4.7              | 0.3            | <0.05          | 8                | 0.9  |
| L3250N 7387.5E                   | Soil           | 11             | 34              | 0.46           | 142              | 0.053         | 7               | 1.27             | 0.025          | 0.09            | 0.6               | 0.03             | 1.9              | 0.2            | <0.05          | 4                | 2.5  |
| L3250N 7400E                     | Soil           | 7              | 27              | 0.51           | 166              | 0.055         | 6               | 1.40             | 0.030          | 0.11            | 1.5               | 0.04             | 2.3              | 0.1            | <0.05          | 4                | 1.8  |
| L3250N 7412.5E                   | Soil           | 14             | 35              | 0.69           | 174              | 0.057         | 8               | 1.78             | 0.024          | 0.15            | 0.6               | 0.03             | 2.5              | 0.1            | <0.05          | 5                | 2.1  |
| L3250N 7425E                     | Soil           | 21             | 36              | 0.58           | 163              | 0.077         | 3               | 2.17             | 0.031          | 0.16            | 0.2               | 0.03             | 3.1              | 0.2            | <0.05          | 6                | 1.2  |
| L3250N 7437.5E                   | Soil           | 19             | 37              | 0.66           | 185              | 0.092         | 5               | 2.26             | 0.029          | 0.19            | 0.2               | 0.02             | 3.4              | 0.2            | <0.05          | 7                | 1.1  |
| L3250N 7475E                     | Soil           | 15             | 33              | 0.54           | 164              | 0.077         | 5               | 1.99             | 0.026          | 0.14            | 0.2               | 0.03             | 2.8              | 0.2            | <0.05          | 5                | 0.9  |
| L3250N 7487.5E                   | Soil           | 13             | 34              | 0.68           | 146              | 0.070         | 6               | 1.76             | 0.029          | 0.21            | 0.1               | 0.03             | 2.7              | 0.2            | <0.05          | 5                | 0.6  |
| L3250N 7500E                     | Soil           | 14             | 36              | 0.75           | 161              | 0.077         | 5               | 1.95             | 0.032          | 0.18            | 0.2               | 0.03             | 3.1              | 0.2            | <0.05          | 5                | 1.0  |
| L3250N 7512.5E                   | Soil           | 14             | 34              | 0.79           | 176              | 0.081         | 6               | 2.07             | 0.029          | 0.23            | 0.2               | 0.02             | 3.3              | 0.3            | <0.05          | 6                | 0.8  |
| L3250N 7525E                     | Soil           | 13             | 32              | 0.82           | 170              | 0.082         | 6               | 2.02             | 0.032          | 0.23            | 0.3               | 0.03             | 3.0              | 0.3            | <0.05          | 5                | 1.3  |
| L3250N 7537.5E                   | Soil           | 19             | 36              | 0.74           | 185              | 0.119         | 2               | 2.27             | 0.032          | 0.28            | 0.2               | 0.02             | 4.3              | 0.2            | <0.05          | 7                | 0.8  |
| L3250N 7550E                     | Soil           | 17             | 34              | 0.80           | 197              | 0.122         | 4               | 2.32             | 0.034          | 0.30            | 0.2               | 0.02             | 4.1              | 0.3            | <0.05          | 7                | 0.9  |
| L3250N 7562.5E                   | Soil           | 14             | 27              | 0.56           | 191              | 0.097         | 3               | 1.87             | 0.032          | 0.20            | 0.3               | 0.05             | 3.1              | 0.2            | 0.38           | 5                | 0.9  |
| L3250N 7575E                     | Soil           | 10             | 19              | 0.49           | 209              | 0.086         | 5               | 1.75             | 0.026          | 0.16            | 0.4               | 0.07             | 2.4              | 0.2            | <0.05          | 5                | 1.0  |
| L3250N 7587.5E                   | Soil           | 15             | 23              | 0.59           | 217              | 0.102         | 5               | 2.22             | 0.027          | 0.22            | 0.4               | 0.03             | 3.3              | 0.2            | <0.05          | 7                | 1.0  |
| L3250N 7600E                     | Soil           | 7              | 22              | 0.49           | 229              | 0.108         | 8               | 1.60             | 0.028          | 0.24            | 0.4               | 0.02             | 2.8              | 0.2            | 0.43           | 6                | 1.3  |
| L3250N 7612.5E                   | Soil           | 5              | 10              | 0.20           | 140              | 0.055         | 5               | 0.69             | 0.032          | 0.18            | 0.4               | 0.04             | 1.6              | 0.2            | 1.17           | 3                | 1.4  |
| 41+15N 462E                      | Soil           | 14             | 35              | 0.38           | 146              | 0.101         | 2               | 2.09             | 0.027          | 0.12            | 0.1               | 0.02             | 3.2              | <0.1           | <0.05          | 6                | <0.5 |
| 41+08N 470E                      | Soil           | 16             | 41              | 0.42           | 159              | 0.115         | 3               | 2.07             | 0.027          | 0.13            | 0.2               | 0.02             | 3.3              | 0.1            | <0.05          | 6                | <0.5 |
| 41+98N 478E                      | Soil           | 20             | 39              | 0.40           | 107              | 0.117         | 3               | 2.10             | 0.033          | 0.09            | 0.2               | 0.02             | 3.5              | 0.1            | <0.05          | 6                | 0.5  |

**QUALITY CONTROL REPORT**

**VAN07002986.1**

| Method              | 1DX15    | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |        |
|---------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Analyte             | Mo       | Cu    | Pb    | Zn    | Ag    | Ni    | Co    | Mn    | Fe    | As    | U     | Au    | Th    | Sr    | Cd    | Sb    | Bi    | V     | Ca    | P     |        |
| Unit                | ppm      | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | %     | %     |        |
| MDL                 | 0.1      | 0.1   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 1     | 0.01  | 0.5   | 0.1   | 0.5   | 0.1   | 1     | 0.1   | 0.1   | 0.1   | 2     | 0.01  | 0.001 |        |
| Pulp Duplicates     |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| L3400N 7175E        | Soil     | 0.7   | 26.1  | 9.9   | 172   | 0.1   | 18.8  | 7.0   | 310   | 1.61  | 16.7  | 0.6   | 5.7   | 2.5   | 27    | 0.7   | 0.2   | 0.2   | 34    | 0.28  | 0.095  |
| REP L3400N 7175E    | QC       | 0.8   | 27.6  | 10.1  | 184   | 0.1   | 19.4  | 7.5   | 315   | 1.67  | 17.4  | 0.5   | 15.5  | 2.5   | 28    | 0.8   | 0.2   | 0.2   | 36    | 0.28  | 0.095  |
| L3400N 7450E        | Soil     | 0.7   | 20.5  | 11.0  | 90    | <0.1  | 17.4  | 7.7   | 697   | 1.82  | 11.0  | 0.5   | 1.9   | 2.6   | 30    | 0.5   | 0.3   | 0.3   | 44    | 0.34  | 0.070  |
| REP L3400N 7450E    | QC       | 0.7   | 20.3  | 11.6  | 89    | <0.1  | 16.8  | 7.8   | 713   | 1.78  | 11.1  | 0.5   | 2.7   | 2.5   | 32    | 0.5   | 0.3   | 0.2   | 43    | 0.37  | 0.072  |
| L3350N 7350E        | Soil     | 0.7   | 22.6  | 10.1  | 84    | <0.1  | 19.8  | 7.8   | 309   | 1.77  | 9.2   | 0.7   | 1.3   | 3.2   | 42    | 0.4   | 0.3   | 0.2   | 38    | 0.28  | 0.056  |
| REP L3350N 7350E    | QC       | 0.8   | 22.5  | 10.4  | 90    | <0.1  | 21.5  | 8.4   | 320   | 1.89  | 9.6   | 0.7   | 2.0   | 3.1   | 44    | 0.5   | 0.3   | 0.2   | 39    | 0.28  | 0.055  |
| L3350N 7587.5E      | Soil     | 0.5   | 26.7  | 12.6  | 84    | 0.1   | 24.7  | 6.9   | 621   | 1.51  | 19.5  | 0.6   | 3.0   | 1.6   | 123   | 0.8   | 0.8   | 0.8   | 26    | 5.92  | 0.129  |
| REP L3350N 7587.5E  | QC       | 0.5   | 28.3  | 13.1  | 92    | 0.1   | 24.5  | 7.1   | 634   | 1.54  | 19.5  | 0.6   | 4.0   | 1.7   | 131   | 0.9   | 0.9   | 0.9   | 26    | 6.07  | 0.137  |
| L3300N 7300E        | Soil     | 0.4   | 19.7  | 14.2  | 141   | <0.1  | 22.0  | 7.2   | 595   | 1.96  | 13.7  | 0.8   | 14.3  | 3.7   | 87    | 1.5   | 0.3   | 0.2   | 42    | 0.55  | 0.110  |
| REP L3300N 7300E    | QC       | 0.5   | 20.0  | 14.0  | 145   | 0.1   | 22.2  | 6.9   | 596   | 1.99  | 13.7  | 0.8   | 0.8   | 3.6   | 89    | 1.6   | 0.4   | 0.2   | 42    | 0.58  | 0.114  |
| L3300N 7512E        | Soil     | 1.1   | 24.3  | 28.7  | 86    | 0.1   | 26.5  | 8.1   | 809   | 1.79  | 25.3  | 0.9   | 7.0   | 2.3   | 57    | 0.7   | 1.5   | 41.1  | 37    | 1.45  | 0.137  |
| REP L3300N 7512E    | QC       | 1.0   | 23.2  | 27.8  | 83    | 0.2   | 25.5  | 7.7   | 807   | 1.69  | 24.5  | 0.9   | 7.4   | 2.2   | 55    | 0.5   | 1.4   | 41.1  | 35    | 1.40  | 0.131  |
| L3250N 7162.5E      | Soil     | 0.5   | 21.0  | 6.6   | 53    | <0.1  | 12.8  | 4.7   | 180   | 1.37  | 6.1   | 0.3   | 0.5   | 2.3   | 72    | 0.3   | 0.2   | 0.2   | 24    | 0.72  | 0.054  |
| REP L3250N 7162.5E  | QC       | 0.4   | 21.4  | 6.8   | 56    | <0.1  | 12.3  | 4.8   | 174   | 1.33  | 6.2   | 0.3   | 1.7   | 2.3   | 74    | 0.3   | 0.3   | 0.2   | 23    | 0.73  | 0.056  |
| L3250N 7525E        | Soil     | 0.9   | 36.5  | 25.9  | 127   | 0.1   | 23.2  | 8.1   | 866   | 2.10  | 27.0  | 0.8   | 2.8   | 1.8   | 52    | 1.0   | 0.9   | 0.6   | 49    | 1.16  | 0.150  |
| REP L3250N 7525E    | QC       | 1.0   | 36.1  | 27.6  | 125   | 0.1   | 23.1  | 8.7   | 888   | 2.20  | 27.8  | 0.9   | 2.6   | 1.9   | 54    | 1.1   | 0.9   | 0.6   | 51    | 1.25  | 0.141  |
| Reference Materials |          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |
| STD DS7             | Standard | 21.4  | 97.5  | 71.5  | 383   | 0.8   | 55.1  | 9.5   | 584   | 2.30  | 47.2  | 5.0   | 57.2  | 4.4   | 65    | 6.0   | 5.8   | 4.4   | 87    | 0.89  | 0.074  |
| STD DS7             | Standard | 21.8  | 106.1 | 73.9  | 394   | 0.9   | 59.5  | 9.6   | 607   | 2.36  | 49.2  | 5.3   | 95.5  | 5.0   | 71    | 6.3   | 5.9   | 4.7   | 89    | 0.93  | 0.074  |
| STD DS7             | Standard | 21.7  | 104.3 | 72.0  | 397   | 0.8   | 53.2  | 9.1   | 613   | 2.32  | 51.6  | 5.2   | 67.6  | 4.9   | 78    | 6.9   | 6.7   | 4.8   | 91    | 0.95  | 0.078  |
| STD DS7             | Standard | 21.4  | 101.5 | 73.6  | 382   | 0.9   | 59.1  | 9.1   | 610   | 2.31  | 47.9  | 5.4   | 62.4  | 5.1   | 75    | 6.2   | 6.0   | 4.7   | 86    | 0.92  | 0.078  |
| STD DS7             | Standard | 21.9  | 105.0 | 68.2  | 405   | 0.8   | 56.7  | 9.6   | 637   | 2.52  | 56.8  | 4.9   | 62.1  | 4.5   | 79    | 6.7   | 6.4   | 5.2   | 89    | 1.04  | 0.085  |
| STD DS7 Expected    |          | 20.92 | 109   | 70.6  | 411   | 0.89  | 56    | 9.7   | 627   | 2.39  | 48.2  | 4.9   | 70    | 4.4   | 68.7  | 6.38  | 5.86  | 4.51  | 86    | 0.93  | 0.08   |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |
| BLK                 | Blank    | <0.1  | <0.1  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <1    | <0.01 | <0.5  | <0.1  | <0.5  | <0.1  | <1    | <0.1  | <0.1  | <0.1  | <2    | <0.01 | <0.001 |

**QUALITY CONTROL REPORT**

**VAN07002986.1**

| Method              | 1DX15    | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15  | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 | 1DX15 |
|---------------------|----------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Analyte             | La       | Cr    | Mg    | Ba    | Ti    | B      | Al    | Na    | K      | W     | Hg    | Sc    | Tl    | S     | Ga    | Se    |       |
| Unit                | ppm      | ppm   | %     | ppm   | %     | ppm    | %     | %     | %      | ppm   | ppm   | ppm   | ppm   | %     | ppm   | ppm   |       |
| MDL                 | 1        | 1     | 0.01  | 1     | 0.001 | 1      | 0.01  | 0.001 | 0.01   | 0.1   | 0.01  | 0.1   | 0.1   | 0.05  | 1     | 0.5   |       |
| Pulp Duplicates     |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |
| L3400N 7175E        | Soil     | 8     | 18    | 0.26  | 105   | 0.085  | 3     | 1.78  | 0.024  | 0.09  | 0.2   | 0.01  | 2.1   | 0.1   | <0.05 | 5     | 0.5   |
| REP L3400N 7175E    | QC       | 8     | 20    | 0.27  | 112   | 0.087  | 3     | 1.79  | 0.024  | 0.10  | 0.1   | 0.01  | 2.2   | 0.1   | <0.05 | 5     | 0.5   |
| L3400N 7450E        | Soil     | 14    | 25    | 0.33  | 160   | 0.079  | 2     | 1.38  | 0.015  | 0.17  | 0.2   | 0.02  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| REP L3400N 7450E    | QC       | 14    | 24    | 0.35  | 164   | 0.079  | 1     | 1.43  | 0.015  | 0.17  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | 0.5   |
| L3350N 7350E        | Soil     | 10    | 23    | 0.34  | 100   | 0.098  | 2     | 2.08  | 0.026  | 0.11  | 0.2   | 0.01  | 2.5   | 0.1   | <0.05 | 5     | <0.5  |
| REP L3350N 7350E    | QC       | 11    | 24    | 0.36  | 106   | 0.104  | 3     | 2.11  | 0.026  | 0.12  | 0.2   | 0.01  | 2.7   | 0.1   | <0.05 | 6     | <0.5  |
| L3350N 7587.5E      | Soil     | 12    | 20    | 0.52  | 165   | 0.064  | 12    | 1.43  | 0.020  | 0.17  | 0.1   | 0.03  | 2.1   | 0.3   | <0.05 | 4     | 0.6   |
| REP L3350N 7587.5E  | QC       | 13    | 21    | 0.55  | 176   | 0.065  | 12    | 1.50  | 0.020  | 0.17  | 0.1   | 0.04  | 2.1   | 0.4   | 0.05  | 4     | <0.5  |
| L3300N 7300E        | Soil     | 16    | 24    | 0.47  | 171   | 0.084  | 5     | 2.32  | 0.022  | 0.19  | 0.1   | 0.03  | 3.2   | 0.2   | <0.05 | 6     | <0.5  |
| REP L3300N 7300E    | QC       | 16    | 25    | 0.47  | 177   | 0.088  | 6     | 2.36  | 0.023  | 0.19  | 0.2   | 0.02  | 3.2   | 0.1   | <0.05 | 6     | <0.5  |
| L3300N 7512E        | Soil     | 13    | 28    | 0.69  | 114   | 0.075  | 7     | 1.65  | 0.026  | 0.15  | 0.3   | 0.04  | 2.6   | 0.3   | <0.05 | 5     | 0.6   |
| REP L3300N 7512E    | QC       | 13    | 26    | 0.66  | 110   | 0.071  | 6     | 1.60  | 0.024  | 0.15  | 0.3   | 0.02  | 2.6   | 0.3   | <0.05 | 4     | 0.5   |
| L3250N 7162.5E      | Soil     | 11    | 15    | 0.24  | 84    | 0.062  | 2     | 1.16  | 0.031  | 0.10  | 0.1   | 0.01  | 1.8   | <0.1  | <0.05 | 3     | 0.8   |
| REP L3250N 7162.5E  | QC       | 11    | 15    | 0.25  | 87    | 0.060  | 3     | 1.22  | 0.033  | 0.10  | 0.1   | 0.02  | 2.1   | <0.1  | <0.05 | 3     | 0.6   |
| L3250N 7525E        | Soil     | 13    | 32    | 0.82  | 170   | 0.082  | 6     | 2.02  | 0.032  | 0.23  | 0.3   | 0.03  | 3.0   | 0.3   | <0.05 | 5     | 1.3   |
| REP L3250N 7525E    | QC       | 14    | 33    | 0.86  | 187   | 0.085  | 7     | 2.07  | 0.031  | 0.23  | 0.2   | 0.03  | 3.2   | 0.3   | <0.05 | 5     | 0.7   |
| Reference Materials |          |       |       |       |       |        |       |       |        |       |       |       |       |       |       |       |       |
| STD DS7             | Standard | 12    | 197   | 0.98  | 345   | 0.116  | 41    | 0.91  | 0.083  | 0.40  | 3.6   | 0.16  | 2.2   | 4.1   | 0.21  | 4     | 3.9   |
| STD DS7             | Standard | 14    | 205   | 1.04  | 397   | 0.122  | 39    | 1.00  | 0.086  | 0.41  | 4.2   | 0.22  | 2.4   | 4.2   | 0.20  | 5     | 3.7   |
| STD DS7             | Standard | 14    | 206   | 1.04  | 390   | 0.126  | 37    | 1.03  | 0.093  | 0.44  | 3.7   | 0.20  | 2.3   | 4.2   | 0.19  | 5     | 3.5   |
| STD DS7             | Standard | 13    | 199   | 1.02  | 361   | 0.125  | 41    | 1.00  | 0.094  | 0.45  | 3.6   | 0.20  | 2.3   | 4.3   | 0.20  | 4     | 3.0   |
| STD DS7             | Standard | 13    | 217   | 1.06  | 403   | 0.127  | 45    | 1.08  | 0.098  | 0.46  | 4.0   | 0.21  | 2.5   | 4.2   | 0.22  | 5     | 3.8   |
| STD DS7 Expected    |          | 12.7  | 163   | 1.05  | 370.3 | 0.124  | 38.6  | 0.959 | 0.073  | 0.44  | 3.8   | 0.2   | 2.5   | 4.19  | 0.21  | 4.6   | 3.5   |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |
| BLK                 | Blank    | <1    | <1    | <0.01 | <1    | <0.001 | <1    | <0.01 | <0.001 | <0.01 | <0.1  | <0.01 | <0.1  | <0.1  | <0.05 | <1    | <0.5  |

APPENDIX 5b

Analytical Results – Trench Samples



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Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

October 15, 2007

Report Date:

January 10, 2008

Page:

1 of 3

## CERTIFICATE OF ANALYSIS

VAN07002981.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number 2007-10  
Number of Samples: 46

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

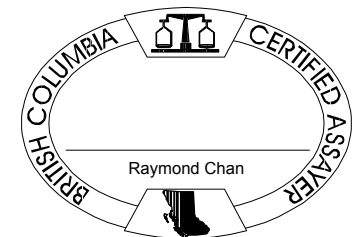
Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                            | Test Wgt (g) | Report Status |
|-------------|-------------------|---------------------------------------------|--------------|---------------|
| R150        | 44                | Crush, split and pulverize rock to 150 mesh |              |               |
| 3B          | 46                | Fire assay fusion Au by ICP-ES              | 30           | Completed     |
| 1DX         | 46                | 1:1:1 Aqua Regia digestion ICP-MS analysis  | 0.5          | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.





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Project: 41

Report Date: January 10, 2008

Page: 2 of 3 Part 1

# CERTIFICATE OF ANALYSIS

VAN07002981.1

| Method  | WGHT      | 3B   | 1DX  | 1DX  | 1DX   | 1DX   | 1DX    | 1DX  | 1DX  | 1DX  | 1DX  | 1DX  | 1DX   | 1DX | 1DX   | 1DX  | 1DX | 1DX   | 1DX   | 1DX  |     |
|---------|-----------|------|------|------|-------|-------|--------|------|------|------|------|------|-------|-----|-------|------|-----|-------|-------|------|-----|
| Analyte | Wgt       | Au   | Mo   | Cu   | Pb    | Zn    | Ag     | Ni   | Co   | Mn   | Fe   | As   | U     | Au  | Th    | Sr   | Cd  | Sb    | Bi    | V    |     |
| Unit    | kg        | ppb  | ppm  | ppm  | ppm   | ppm   | ppm    | ppm  | ppm  | ppm  | %    | ppm  | ppm   | ppb | ppm   | ppm  | ppm | ppm   | ppm   | ppm  |     |
| MDL     | 0.01      | 2    | 0.1  | 0.1  | 0.1   | 1     | 0.1    | 0.1  | 0.1  | 1    | 0.01 | 0.5  | 0.1   | 0.5 | 0.1   | 1    | 0.1 | 0.1   | 0.1   | 2    |     |
| 41191   | Rock      | 7.40 | 56   | 8.0  | 53.4  | 227.9 | 324    | 50.2 | 21.8 | 9.3  | 978  | 2.19 | 86.1  | 1.3 | 47.2  | 0.7  | 235 | 2.9   | 8.5   | 0.2  | 33  |
| 41192   | Rock      | 3.50 | 36   | 13.1 | 83.4  | 506.8 | 431    | 66.0 | 17.8 | 8.4  | 541  | 1.84 | 85.1  | 0.7 | 32.5  | 0.6  | 96  | 3.0   | 8.4   | 0.2  | 32  |
| 41193   | Rock      | 7.00 | 5    | 1.2  | 43.0  | 4.9   | 79     | 0.2  | 11.0 | 12.4 | 622  | 3.28 | 9.9   | 0.4 | 4.8   | 1.8  | 123 | 0.4   | 0.8   | 0.2  | 86  |
| 41194   | Rock      | 5.60 | 31   | 2.5  | 47.5  | 82.3  | 96     | 16.3 | 10.4 | 11.0 | 1135 | 3.03 | 41.7  | 0.5 | 23.6  | 1.2  | 192 | 1.4   | 2.5   | 0.2  | 40  |
| 41195   | Rock      | 6.00 | 56   | 3.0  | 6.3   | 19.4  | 27     | 2.6  | 7.4  | 6.7  | 1036 | 2.09 | 56.4  | 0.4 | 44.9  | 1.1  | 205 | 0.1   | 1.0   | <0.1 | 29  |
| 41196   | Rock      | 4.60 | <2   | 0.9  | 12.0  | 24.4  | 70     | 0.2  | 3.5  | 6.0  | 639  | 2.68 | 4.1   | 1.2 | <0.5  | 10.1 | 64  | 0.2   | 0.5   | 0.2  | 27  |
| 41197   | Rock      | 5.00 | 4    | 3.0  | 11.5  | 8.3   | 59     | 0.3  | 16.9 | 12.0 | 752  | 3.29 | 45.7  | 1.0 | 4.9   | 3.3  | 90  | 0.1   | 0.5   | 0.3  | 64  |
| 41198   | Rock      | 5.70 | 50   | 2.6  | 24.0  | 11.5  | 63     | 2.9  | 16.5 | 6.5  | 1485 | 3.55 | 41.0  | 0.8 | 42.7  | 1.4  | 261 | 0.4   | 0.7   | 0.3  | 58  |
| 41199   | Rock      | 6.60 | 108  | 6.9  | 92.0  | 298.3 | 451    | >100 | 7.7  | 4.1  | 841  | 1.59 | 65.6  | 0.3 | 88.2  | 0.6  | 156 | 1.7   | 3.9   | 0.1  | 20  |
| 41200   | Rock      | 4.50 | 145  | 7.4  | 92.7  | 345.5 | 1191   | >100 | 9.6  | 5.3  | 679  | 1.63 | 53.7  | 0.4 | 164.4 | 0.5  | 119 | 9.3   | 6.6   | 0.1  | 23  |
| 41201   | Rock      | 4.20 | 101  | 6.4  | 73.7  | 278.9 | 799    | 89.5 | 9.3  | 5.2  | 806  | 1.73 | 57.0  | 0.5 | 69.9  | 0.4  | 150 | 5.8   | 6.1   | 0.1  | 25  |
| 41202   | Rock Pulp |      | 243  | 6.3  | 450.5 | 9221  | >10000 | >100 | 23.1 | 10.3 | 1202 | 6.90 | 3938  | 1.6 | 162.8 | 1.2  | 63  | 147.5 | 71.5  | 0.1  | 26  |
| 41203   | Rock      | 1.00 | <2   | 4.6  | 4.5   | 35.6  | 85     | 0.5  | 0.4  | 1.7  | 651  | 2.33 | 18.3  | 3.2 | 1.8   | 22.4 | 33  | 0.2   | 0.6   | 0.1  | 9   |
| 41204   | Rock      | 6.50 | 98   | 6.7  | 149.1 | 470.9 | 1876   | >100 | 12.3 | 5.2  | 1031 | 2.28 | 81.0  | 1.6 | 78.5  | 0.5  | 195 | 13.9  | 36.8  | 0.1  | 33  |
| 41205   | Rock      | 5.90 | 124  | 8.1  | 627.8 | 2777  | 5689   | >100 | 15.5 | 6.9  | 810  | 2.33 | 182.0 | 2.4 | 117.1 | 1.0  | 113 | 36.3  | 284.9 | 1.0  | 29  |
| 41206   | Rock      | 5.50 | 124  | 9.4  | 632.6 | 2560  | 5947   | >100 | 12.3 | 4.3  | 731  | 1.85 | 68.5  | 1.6 | 117.2 | 0.4  | 137 | 34.5  | 212.5 | 0.6  | 28  |
| 41207   | Rock      | 5.60 | 1105 | 8.4  | 1441  | 3861  | 3357   | >100 | 8.3  | 3.1  | 705  | 1.62 | 108.1 | 2.1 | 899.3 | 0.4  | 78  | 32.8  | 1092  | <0.1 | 20  |
| 41208   | Rock      | 5.90 | 49   | 8.1  | 73.5  | 332.2 | 661    | >100 | 9.5  | 4.3  | 481  | 1.50 | 71.7  | 1.0 | 47.6  | 0.6  | 20  | 4.7   | 60.6  | 0.1  | 14  |
| 41209   | Rock      | 3.70 | 1327 | 4.6  | 205.1 | 601.1 | 1880   | >100 | 8.7  | 4.0  | 606  | 1.65 | 51.4  | 1.2 | 976.5 | 0.5  | 27  | 13.4  | 99.4  | <0.1 | 23  |
| 41210   | Rock      | 5.10 | 3127 | 18.7 | 1138  | 2774  | 8284   | >100 | 15.0 | 6.7  | 1022 | 1.83 | 110.9 | 0.9 | 4398  | 0.8  | 51  | 64.1  | 545.1 | 0.3  | 28  |
| 41211   | Rock      | 4.70 | 97   | 1.2  | 113.7 | 346.7 | 149    | >100 | 6.2  | 2.2  | 344  | 0.88 | 51.5  | 0.5 | 68.7  | 0.4  | 15  | 1.7   | 32.7  | <0.1 | 10  |
| 41212   | Rock      | 3.40 | 88   | 1.5  | 91.8  | 27.1  | 123    | 18.7 | 24.4 | 21.1 | 569  | 3.56 | 290.5 | 0.6 | 85.9  | 1.7  | 20  | 1.3   | 7.4   | 0.1  | 48  |
| 41213   | Rock      | 5.00 | 3    | 1.2  | 58.8  | 4.1   | 49     | 0.7  | 11.8 | 24.5 | 340  | 3.65 | 7.2   | 0.4 | 4.1   | 0.4  | 219 | <0.1  | 0.7   | 0.6  | 117 |
| 41214   | Rock      | 5.00 | 7    | 4.1  | 54.0  | 5.4   | 107    | 1.1  | 21.4 | 19.1 | 1123 | 3.22 | 63.6  | 0.6 | 7.0   | 0.7  | 180 | 0.8   | 1.1   | 0.4  | 120 |
| 41215   | Rock      | 6.20 | 2    | 3.8  | 42.1  | 4.3   | 42     | 0.3  | 18.8 | 13.0 | 1266 | 2.19 | 59.4  | 1.6 | 3.0   | 0.6  | 376 | 0.3   | 1.1   | 0.5  | 80  |
| 41216   | Rock      | 6.20 | 5    | 3.2  | 33.4  | 4.2   | 59     | 0.6  | 16.2 | 15.4 | 1172 | 2.42 | 86.9  | 0.9 | 7.3   | 0.6  | 322 | 0.2   | 0.7   | 0.2  | 115 |
| 41217   | Rock      | 7.90 | 2    | 1.7  | 47.1  | 2.8   | 48     | 0.2  | 15.0 | 18.9 | 323  | 3.28 | 23.2  | 0.3 | 2.0   | 0.9  | 196 | 0.2   | 0.9   | 0.6  | 135 |
| 41218   | Rock      | 6.20 | 2    | 2.4  | 62.8  | 3.1   | 63     | 0.4  | 22.7 | 22.6 | 633  | 4.50 | 23.6  | 0.3 | 3.0   | 1.0  | 102 | 0.2   | 0.5   | 0.7  | 206 |
| 41219   | Rock      | 4.80 | 4    | 6.8  | 14.2  | 3.4   | 21     | 0.2  | 18.1 | 5.0  | 642  | 1.37 | 11.1  | 2.5 | 0.5   | 0.6  | 527 | 0.4   | 0.5   | 0.3  | 61  |
| 41220   | Rock      | 4.40 | 12   | 7.8  | 59.6  | 7.8   | 61     | 0.4  | 26.1 | 10.2 | 1528 | 2.31 | 33.5  | 1.7 | 5.8   | 1.1  | 488 | 1.4   | 0.6   | 0.5  | 66  |



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Project: 41

Report Date: January 10, 2008

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN07002981.1

| Method | Analyte   | Unit | MDL | 1DX<br>Ca | 1DX<br>P | 1DX<br>La | 1DX<br>Cr | 1DX<br>Mg | 1DX<br>Ba | 1DX<br>Ti | 1DX<br>B | 1DX<br>Al | 1DX<br>Na | 1DX<br>K | 1DX<br>W | 1DX<br>Hg | 1DX<br>Sc | 1DX<br>Ti | 1DX<br>S | 1DX<br>Ga | 1DX<br>Se |
|--------|-----------|------|-----|-----------|----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|-----------|
|        |           |      |     | %         | %        | ppm       | ppm       | %         | ppm       | %         | ppm      | %         | %         | %        | ppm      | ppm       | ppm       | ppm       | %        | ppm       | ppm       |
|        |           |      |     | 0.01      | 0.001    | 1         | 1         | 0.01      | 1         | 0.001     | 20       | 0.01      | 0.001     | 0.01     | 0.1      | 0.01      | 0.1       | 0.1       | 0.05     | 1         | 0.5       |
| 41191  | Rock      |      |     | 6.37      | 0.115    | 5         | 11        | 0.52      | 90        | <0.001    | <20      | 0.71      | <0.001    | 0.16     | 0.3      | 0.23      | 4.2       | <0.1      | 0.97     | 2         | 3.0       |
| 41192  | Rock      |      |     | 2.32      | 0.091    | 4         | 11        | 0.56      | 294       | <0.001    | <20      | 0.76      | 0.001     | 0.17     | 0.2      | 0.26      | 3.2       | <0.1      | 0.45     | 2         | 1.8       |
| 41193  | Rock      |      |     | 3.07      | 0.090    | 8         | 17        | 1.61      | 283       | 0.027     | <20      | 2.08      | 0.025     | 0.32     | 0.1      | <0.01     | 8.7       | 0.1       | 0.26     | 7         | 1.0       |
| 41194  | Rock      |      |     | 4.83      | 0.069    | 7         | 6         | 1.10      | 70        | <0.001    | <20      | 1.45      | <0.001    | 0.21     | 0.1      | <0.01     | 9.0       | <0.1      | 0.49     | 5         | 1.1       |
| 41195  | Rock      |      |     | 4.84      | 0.044    | 8         | 3         | 0.82      | 69        | <0.001    | <20      | 1.03      | <0.001    | 0.18     | <0.1     | <0.01     | 4.6       | <0.1      | 0.22     | 3         | 0.9       |
| 41196  | Rock      |      |     | 1.20      | 0.100    | 61        | 3         | 0.71      | 63        | 0.004     | <20      | 1.58      | 0.026     | 0.21     | 0.2      | <0.01     | 1.4       | <0.1      | <0.05    | 7         | 0.5       |
| 41197  | Rock      |      |     | 2.14      | 0.102    | 19        | 16        | 1.06      | 87        | 0.001     | <20      | 1.83      | 0.010     | 0.20     | <0.1     | <0.01     | 5.6       | <0.1      | 0.55     | 6         | 2.0       |
| 41198  | Rock      |      |     | 8.63      | 0.078    | 11        | 13        | 1.30      | 64        | 0.003     | <20      | 1.93      | 0.002     | 0.19     | 0.9      | <0.01     | 6.6       | <0.1      | 0.20     | 6         | 0.7       |
| 41199  | Rock      |      |     | 4.48      | 0.042    | 6         | 5         | 0.71      | 70        | <0.001    | <20      | 0.80      | 0.001     | 0.13     | 0.1      | 0.07      | 2.7       | <0.1      | 0.23     | 3         | 1.3       |
| 41200  | Rock      |      |     | 3.36      | 0.034    | 5         | 8         | 0.75      | 21        | <0.001    | <20      | 0.77      | <0.001    | 0.10     | 0.1      | 1.21      | 2.9       | <0.1      | 0.25     | 3         | 2.4       |
| 41201  | Rock      |      |     | 4.04      | 0.033    | 5         | 8         | 0.81      | 20        | <0.001    | <20      | 0.80      | <0.001    | 0.10     | <0.1     | 0.94      | 3.0       | <0.1      | 0.23     | 3         | 1.6       |
| 41202  | Rock Pulp |      |     | 1.35      | 0.045    | 3         | 23        | 0.46      | 28        | 0.029     | <20      | 0.87      | 0.037     | 0.13     | 0.9      | 0.72      | 1.8       | 0.6       | 5.47     | 3         | 21.7      |
| 41203  | Rock      |      |     | 0.66      | 0.053    | 79        | 2         | 0.18      | 28        | 0.007     | <20      | 0.37      | 0.042     | 0.14     | <0.1     | <0.01     | 1.3       | <0.1      | 0.08     | 3         | 0.5       |
| 41204  | Rock      |      |     | 5.02      | 0.067    | 4         | 17        | 0.96      | 27        | <0.001    | <20      | 0.79      | <0.001    | 0.06     | 0.2      | 1.09      | 3.1       | <0.1      | 0.47     | 3         | 2.1       |
| 41205  | Rock      |      |     | 2.56      | 0.078    | 5         | 19        | 0.61      | 51        | 0.001     | <20      | 0.70      | 0.001     | 0.14     | 0.2      | 4.79      | 3.5       | <0.1      | 0.69     | 2         | 9.3       |
| 41206  | Rock      |      |     | 4.86      | 0.074    | 3         | 15        | 0.66      | 22        | 0.001     | <20      | 0.67      | <0.001    | 0.06     | 0.2      | 5.72      | 2.6       | <0.1      | 0.44     | 3         | 7.0       |
| 41207  | Rock      |      |     | 2.39      | 0.066    | 3         | 24        | 0.36      | 15        | <0.001    | <20      | 0.42      | 0.002     | 0.04     | 0.7      | 1.74      | 2.3       | <0.1      | 0.47     | 1         | 9.0       |
| 41208  | Rock      |      |     | 0.57      | 0.067    | 4         | 18        | 0.15      | 30        | <0.001    | <20      | 0.31      | <0.001    | 0.10     | 0.2      | 0.38      | 2.3       | <0.1      | 0.28     | <1        | 0.8       |
| 41209  | Rock      |      |     | 0.71      | 0.063    | 3         | 18        | 0.31      | 33        | 0.001     | <20      | 0.44      | 0.001     | 0.07     | 0.6      | 1.05      | 2.4       | <0.1      | 0.34     | 1         | 3.5       |
| 41210  | Rock      |      |     | 1.81      | 0.086    | 6         | 14        | 0.63      | 299       | 0.001     | <20      | 0.73      | <0.001    | 0.13     | 0.4      | 3.91      | 3.5       | <0.1      | 0.43     | 2         | 11.6      |
| 41211  | Rock      |      |     | 0.62      | 0.061    | 2         | 16        | 0.17      | 21        | <0.001    | <20      | 0.22      | <0.001    | 0.04     | 1.5      | 0.06      | 1.8       | <0.1      | 0.10     | <1        | <0.5      |
| 41212  | Rock      |      |     | 0.47      | 0.145    | 11        | 11        | 0.74      | 232       | 0.001     | <20      | 1.38      | 0.002     | 0.36     | 0.4      | 0.06      | 9.9       | 0.1       | 0.54     | 3         | 1.6       |
| 41213  | Rock      |      |     | 3.82      | 0.072    | 1         | 14        | 1.79      | 193       | 0.162     | <20      | 3.78      | 0.318     | 0.37     | 0.2      | 0.01      | 5.4       | 0.3       | 0.80     | 8         | 0.9       |
| 41214  | Rock      |      |     | 7.58      | 0.077    | 6         | 22        | 1.44      | 82        | 0.052     | <20      | 2.06      | 0.023     | 0.16     | 2.5      | 0.02      | 9.1       | 0.2       | 0.20     | 5         | 0.9       |
| 41215  | Rock      |      |     | 17.75     | 0.081    | 3         | 23        | 1.00      | 120       | 0.057     | <20      | 1.31      | 0.073     | 0.07     | 0.5      | 0.02      | 6.4       | <0.1      | 0.22     | 3         | 0.8       |
| 41216  | Rock      |      |     | 14.02     | 0.088    | 4         | 30        | 1.57      | 126       | 0.044     | <20      | 2.07      | 0.067     | 0.13     | 0.2      | 0.01      | 9.0       | 0.1       | 0.15     | 5         | 0.6       |
| 41217  | Rock      |      |     | 2.20      | 0.090    | 3         | 41        | 2.06      | 336       | 0.112     | <20      | 3.13      | 0.217     | 0.46     | 0.1      | 0.02      | 8.0       | 0.4       | 0.54     | 9         | 1.6       |
| 41218  | Rock      |      |     | 2.16      | 0.083    | 4         | 74        | 2.63      | 364       | 0.129     | <20      | 2.77      | 0.052     | 0.69     | <0.1     | 0.02      | 12.6      | 0.7       | 0.41     | 10        | 1.0       |
| 41219  | Rock      |      |     | 25.02     | 0.054    | 4         | 18        | 0.46      | 36        | 0.007     | <20      | 0.63      | 0.010     | 0.05     | 0.1      | 0.02      | 2.7       | 0.1       | 0.30     | 2         | 1.7       |
| 41220  | Rock      |      |     | 17.14     | 0.092    | 6         | 19        | 0.68      | 59        | 0.002     | <20      | 1.16      | 0.001     | 0.08     | <0.1     | 0.01      | 5.3       | <0.1      | 0.11     | 3         | 1.1       |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: January 10, 2008

Page: 3 of 3 Part 1

# CERTIFICATE OF ANALYSIS

VAN07002981.1

| Method  | WGHT      | 3B   | 1DX | 1DX  | 1DX   | 1DX  | 1DX    | 1DX  | 1DX   | 1DX  | 1DX  | 1DX  | 1DX   | 1DX | 1DX   | 1DX  | 1DX | 1DX   | 1DX  | 1DX  | 1DX |
|---------|-----------|------|-----|------|-------|------|--------|------|-------|------|------|------|-------|-----|-------|------|-----|-------|------|------|-----|
| Analyte | Wgt       | Au   | Mo  | Cu   | Pb    | Zn   | Ag     | Ni   | Co    | Mn   | Fe   | As   | U     | Au  | Th    | Sr   | Cd  | Sb    | Bi   | V    |     |
| Unit    | kg        | ppb  | ppm | ppm  | ppm   | ppm  | ppm    | ppm  | ppm   | ppm  | %    | ppm  | ppm   | ppb | ppm   | ppm  | ppm | ppm   | ppm  | ppm  |     |
| MDL     | 0.01      | 2    | 0.1 | 0.1  | 0.1   | 1    | 0.1    | 0.1  | 0.1   | 1    | 0.01 | 0.5  | 0.1   | 0.5 | 0.1   | 1    | 0.1 | 0.1   | 0.1  | 0.1  |     |
| 41221   | Rock      | 5.20 | 7   | 7.3  | 53.8  | 6.5  | 49     | 0.3  | 22.3  | 9.5  | 1508 | 1.93 | 33.0  | 1.4 | 4.7   | 1.0  | 500 | 0.8   | 0.5  | 0.5  | 53  |
| 41222   | Rock Pulp |      | 185 | 7.1  | 487.7 | 8776 | >10000 | >100 | 23.1  | 11.7 | 1088 | 6.66 | 4243  | 1.8 | 135.9 | 1.2  | 72  | 141.6 | 70.4 | 0.2  | 28  |
| 41223   | Rock      | 0.80 | <2  | 4.1  | 5.8   | 19.2 | 65     | 0.4  | 2.0   | 2.6  | 651  | 2.36 | 6.8   | 1.8 | 1.4   | 16.2 | 48  | 0.2   | 0.4  | 0.1  | 14  |
| 41224   | Rock      | 5.60 | 22  | 8.2  | 45.1  | 6.7  | 105    | 0.2  | 86.9  | 13.6 | 1820 | 2.79 | 33.4  | 1.7 | 12.9  | 3.2  | 357 | 0.5   | 0.4  | 1.1  | 116 |
| 41225   | Rock      | 4.80 | 14  | 10.2 | 41.7  | 3.9  | 86     | 0.3  | 86.0  | 12.4 | 1726 | 2.88 | 122.1 | 1.1 | 21.4  | 2.7  | 322 | 0.4   | 1.6  | 0.5  | 170 |
| 41226   | Rock      | 6.00 | 9   | 9.3  | 29.6  | 3.2  | 66     | <0.1 | 81.0  | 12.2 | 1369 | 2.33 | 48.2  | 0.7 | 5.4   | 2.3  | 173 | 0.2   | 0.5  | 0.4  | 117 |
| 41227   | Rock      | 6.40 | 5   | 4.3  | 39.2  | 2.6  | 80     | 0.1  | 69.7  | 15.8 | 775  | 2.56 | 73.2  | 0.7 | 4.9   | 2.2  | 277 | 0.4   | 0.4  | 0.3  | 111 |
| 41228   | Rock      | 8.50 | 8   | 7.9  | 47.5  | 2.8  | 92     | 0.2  | 101.6 | 16.9 | 892  | 3.41 | 114.3 | 0.6 | 9.9   | 3.1  | 132 | 0.2   | 1.4  | 0.6  | 128 |
| 41229   | Rock      | 7.60 | 6   | 9.9  | 33.5  | 3.1  | 179    | 0.2  | 112.6 | 21.8 | 963  | 3.23 | 158.4 | 0.6 | 6.7   | 3.3  | 137 | 0.8   | 1.6  | 0.8  | 116 |
| 41230   | Rock      | 5.30 | 5   | 28.2 | 44.6  | 2.5  | 104    | 0.1  | 101.3 | 18.7 | 847  | 3.18 | 139.8 | 0.5 | 6.7   | 3.2  | 126 | 0.2   | 1.2  | 0.8  | 105 |
| 41231   | Rock      | 7.00 | 7   | 18.7 | 51.9  | 3.1  | 177    | 0.2  | 81.5  | 14.7 | 862  | 2.84 | 60.7  | 0.7 | 7.8   | 2.2  | 209 | 1.5   | 1.1  | 0.6  | 81  |
| 41232   | Rock      | 7.20 | 6   | 25.5 | 54.0  | 4.8  | 90     | 0.2  | 90.3  | 18.8 | 757  | 3.75 | 84.8  | 0.8 | 7.9   | 2.9  | 193 | 0.3   | 1.8  | 0.6  | 146 |
| 41233   | Rock      | 8.80 | 6   | 22.3 | 41.6  | 5.8  | 103    | 0.3  | 84.5  | 18.1 | 647  | 3.85 | 85.4  | 0.5 | 7.0   | 2.9  | 154 | 0.6   | 1.6  | 0.3  | 125 |
| 41234   | Rock      | 9.10 | 4   | 7.2  | 46.7  | 10.7 | 137    | 0.3  | 69.3  | 13.2 | 1025 | 3.01 | 55.1  | 0.4 | 4.8   | 2.4  | 159 | 0.7   | 1.1  | 0.5  | 80  |
| 41235   | Rock      | 6.30 | 3   | 3.6  | 70.8  | 6.6  | 159    | 0.2  | 51.2  | 13.7 | 1406 | 2.88 | 49.3  | 0.5 | 2.1   | 1.9  | 117 | 0.9   | 0.7  | 0.5  | 85  |
| 40901   | Rock      | 1.70 | <2  | 14.2 | 6.0   | 3.1  | 18     | 0.2  | 12.4  | 2.9  | 381  | 0.79 | 28.9  | 2.0 | <0.5  | 0.5  | 358 | 0.3   | 0.6  | <0.1 | 22  |



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Project: 41

Report Date: January 10, 2008

Page: 3 of 3 Part 2

# CERTIFICATE OF ANALYSIS

VAN07002981.1

| Method  | 1DX       | 1DX   | 1DX   | 1DX | 1DX  | 1DX  | 1DX   | 1DX    | 1DX  | 1DX   | 1DX    | 1DX  | 1DX  | 1DX   | 1DX  | 1DX  | 1DX   | 1DX | 1DX  |
|---------|-----------|-------|-------|-----|------|------|-------|--------|------|-------|--------|------|------|-------|------|------|-------|-----|------|
| Analyte | Ca        | P     | La    | Cr  | Mg   | Ba   | Ti    | B      | Al   | Na    | K      | W    | Hg   | Sc    | Tl   | S    | Ga    | Se  |      |
| Unit    | %         | %     | ppm   | ppm | %    | ppm  | %     | ppm    | %    | %     | %      | ppm  | ppm  | ppm   | ppm  | %    | ppm   | ppm |      |
| MDL     | 0.01      | 0.001 | 1     | 1   | 0.01 | 1    | 0.001 | 20     | 0.01 | 0.001 | 0.01   | 0.1  | 0.01 | 0.1   | 0.05 | 1    | 1     | 0.5 |      |
| 41221   | Rock      | 18.54 | 0.091 | 6   | 16   | 0.55 | 44    | <0.001 | <20  | 0.95  | <0.001 | 0.07 | <0.1 | 0.01  | 4.9  | <0.1 | 0.09  | 3   | 0.9  |
| 41222   | Rock Pulp | 1.19  | 0.044 | 4   | 24   | 0.43 | 31    | 0.032  | <20  | 0.85  | 0.039  | 0.12 | 0.9  | 0.72  | 1.8  | 0.5  | 5.44  | 3   | 22.0 |
| 41223   | Rock      | 0.66  | 0.060 | 71  | 3    | 0.16 | 35    | 0.009  | <20  | 0.39  | 0.037  | 0.13 | <0.1 | 0.02  | 1.2  | <0.1 | <0.05 | 2   | <0.5 |
| 41224   | Rock      | 12.35 | 0.112 | 24  | 48   | 1.04 | 64    | 0.004  | <20  | 2.05  | 0.024  | 0.12 | 0.1  | 0.01  | 7.4  | <0.1 | <0.05 | 6   | <0.5 |
| 41225   | Rock      | 12.09 | 0.086 | 15  | 75   | 1.23 | 81    | 0.020  | <20  | 1.88  | 0.069  | 0.10 | 0.2  | 0.02  | 6.9  | <0.1 | 0.13  | 7   | 0.6  |
| 41226   | Rock      | 4.72  | 0.101 | 8   | 68   | 1.23 | 82    | 0.101  | <20  | 2.04  | 0.180  | 0.07 | 0.3  | 0.01  | 6.9  | <0.1 | 0.08  | 7   | <0.5 |
| 41227   | Rock      | 11.56 | 0.104 | 8   | 70   | 1.19 | 95    | 0.073  | <20  | 2.58  | 0.169  | 0.06 | 0.3  | 0.01  | 6.8  | <0.1 | 0.07  | 9   | <0.5 |
| 41228   | Rock      | 4.30  | 0.098 | 13  | 95   | 1.54 | 46    | 0.106  | <20  | 2.10  | 0.120  | 0.08 | 0.3  | 0.01  | 8.2  | 0.1  | 0.11  | 9   | <0.5 |
| 41229   | Rock      | 4.61  | 0.101 | 12  | 120  | 1.52 | 41    | 0.052  | <20  | 1.79  | 0.081  | 0.10 | 0.2  | <0.01 | 7.9  | 0.1  | 0.30  | 8   | <0.5 |
| 41230   | Rock      | 4.10  | 0.091 | 11  | 100  | 1.54 | 36    | 0.073  | <20  | 1.71  | 0.080  | 0.21 | 0.2  | 0.01  | 8.1  | 0.2  | 0.42  | 7   | 0.5  |
| 41231   | Rock      | 9.99  | 0.094 | 8   | 71   | 1.40 | 45    | 0.104  | <20  | 1.69  | 0.133  | 0.11 | 0.4  | 0.02  | 5.8  | 0.2  | 0.61  | 6   | 0.8  |
| 41232   | Rock      | 9.14  | 0.117 | 13  | 90   | 1.67 | 67    | 0.109  | <20  | 2.08  | 0.077  | 0.08 | 0.3  | <0.01 | 9.0  | 0.2  | 0.43  | 8   | 0.8  |
| 41233   | Rock      | 6.97  | 0.095 | 10  | 88   | 1.90 | 85    | 0.132  | <20  | 2.18  | 0.099  | 0.12 | 0.3  | <0.01 | 8.8  | 0.2  | 0.46  | 9   | 0.6  |
| 41234   | Rock      | 6.54  | 0.083 | 9   | 75   | 1.17 | 58    | 0.082  | <20  | 1.44  | 0.061  | 0.08 | 0.2  | <0.01 | 6.7  | 0.2  | 0.27  | 6   | <0.5 |
| 41235   | Rock      | 5.02  | 0.081 | 8   | 67   | 1.24 | 40    | 0.093  | <20  | 1.21  | 0.022  | 0.06 | 0.2  | 0.01  | 8.3  | 0.1  | 0.25  | 6   | <0.5 |
| 40901   | Rock      | 18.78 | 0.073 | 3   | 10   | 0.22 | 19    | 0.002  | <20  | 0.32  | 0.002  | 0.05 | <0.1 | <0.01 | 2.1  | <0.1 | <0.05 | <1  | 0.5  |

**QUALITY CONTROL REPORT**

**VAN07002981.1**

| Method              | WGHT     | 3B   | 1DX | 1DX   | 1DX   | 1DX   | 1DX  | 1DX  | 1DX  | 1DX  | 1DX  | 1DX   | 1DX  | 1DX  | 1DX   | 1DX  | 1DX  | 1DX  | 1DX  | 1DX  |    |
|---------------------|----------|------|-----|-------|-------|-------|------|------|------|------|------|-------|------|------|-------|------|------|------|------|------|----|
| Analyte             | Wgt      | Au   | Mo  | Cu    | Pb    | Zn    | Ag   | Ni   | Co   | Mn   | Fe   | As    | U    | Au   | Th    | Sr   | Cd   | Sb   | Bi   | V    |    |
| Unit                | kg       | ppb  | ppm | ppm   | ppm   | ppm   | ppm  | ppm  | ppm  | ppm  | %    | ppm   | ppm  | ppb  | ppm   | ppm  | ppm  | ppm  | ppm  | ppm  |    |
| MDL                 | 0.01     | 2    | 0.1 | 0.1   | 0.1   | 1     | 0.1  | 0.1  | 0.1  | 1    | 0.01 | 0.5   | 0.1  | 0.5  | 0.1   | 1    | 0.1  | 0.1  | 0.1  | 2    |    |
| Pulp Duplicates     |          |      |     |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| 41204               | Rock     | 6.50 | 98  | 6.7   | 149.1 | 470.9 | 1876 | >100 | 12.3 | 5.2  | 1031 | 2.28  | 81.0 | 1.6  | 78.5  | 0.5  | 195  | 13.9 | 36.8 | 0.1  | 33 |
| REP 41204           | QC       |      |     | 6.9   | 161.4 | 490.8 | 2002 | >100 | 13.8 | 5.9  | 1109 | 2.46  | 85.0 | 1.7  | 150.1 | 0.6  | 213  | 14.4 | 38.0 | 0.1  | 35 |
| 41208               | Rock     | 5.90 | 49  | 8.1   | 73.5  | 332.2 | 661  | >100 | 9.5  | 4.3  | 481  | 1.50  | 71.7 | 1.0  | 47.6  | 0.6  | 20   | 4.7  | 60.6 | 0.1  | 14 |
| REP 41208           | QC       |      | 47  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| 41234               | Rock     | 9.10 | 4   | 7.2   | 46.7  | 10.7  | 137  | 0.3  | 69.3 | 13.2 | 1025 | 3.01  | 55.1 | 0.4  | 4.8   | 2.4  | 159  | 0.7  | 1.1  | 0.5  | 80 |
| REP 41234           | QC       |      | 4   |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| 41235               | Rock     | 6.30 | 3   | 3.6   | 70.8  | 6.6   | 159  | 0.2  | 51.2 | 13.7 | 1406 | 2.88  | 49.3 | 0.5  | 2.1   | 1.9  | 117  | 0.9  | 0.7  | 0.5  | 85 |
| REP 41235           | QC       |      |     | 3.7   | 69.8  | 6.6   | 160  | 0.2  | 49.5 | 14.0 | 1393 | 2.84  | 50.8 | 0.5  | 4.5   | 1.9  | 115  | 1.2  | 0.7  | 0.5  | 84 |
| Reference Materials |          |      |     |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD DS7             | Standard |      |     | 20.0  | 102.3 | 65.6  | 380  | 0.8  | 53.3 | 9.6  | 582  | 2.32  | 46.4 | 4.4  | 58.4  | 4.3  | 69   | 5.7  | 4.5  | 4.4  | 80 |
| STD DS7             | Standard |      |     | 21.1  | 98.2  | 64.6  | 369  | 0.8  | 52.9 | 8.9  | 564  | 2.23  | 44.6 | 4.9  | 51.3  | 3.9  | 69   | 5.7  | 4.4  | 4.6  | 79 |
| STD DS7             | Standard |      |     | 18.7  | 97.3  | 64.6  | 397  | 0.7  | 50.3 | 8.4  | 600  | 2.21  | 48.6 | 4.4  | 50.8  | 4.1  | 63   | 5.8  | 4.7  | 4.3  | 76 |
| STD DS7             | Standard |      |     | 19.4  | 98.1  | 65.0  | 392  | 0.6  | 47.4 | 8.3  | 566  | 2.28  | 47.4 | 5.1  | 51.7  | 4.2  | 68   | 6.0  | 4.7  | 4.3  | 72 |
| STD OXD57           | Standard |      | 419 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57           | Standard |      | 415 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57           | Standard |      | 421 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57           | Standard |      | 403 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57           | Standard |      | 435 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57           | Standard |      | 425 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD OXD57 Expected  |          |      | 413 |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| STD DS7 Expected    |          |      |     | 20.92 | 109   | 70.6  | 411  | 0.89 | 56   | 9.7  | 627  | 2.39  | 48.2 | 4.9  | 70    | 4.4  | 68.7 | 6.38 | 5.86 | 4.51 | 86 |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      | <2  |       |       |       |      |      |      |      |      |       |      |      |       |      |      |      |      |      |    |
| BLK                 | Blank    |      |     | <0.1  | <0.1  | <0.1  | <1   | <0.1 | <0.1 | <0.1 | <1   | <0.01 | <0.5 | <0.1 | <0.5  | <0.1 | <1   | <0.1 | <0.1 | <0.1 | <2 |



QUALITY CONTROL REPORT

VAN07002981.1

|     |            | WGHT  | 3B  | 1DX  | 1DX  | 1DX  | 1DX | 1DX  | 1DX  | 1DX  | 1DX | 1DX   | 1DX  | 1DX  | 1DX  | 1DX  | 1DX | 1DX  | 1DX  | 1DX  |     |
|-----|------------|-------|-----|------|------|------|-----|------|------|------|-----|-------|------|------|------|------|-----|------|------|------|-----|
|     |            | Wgt   | Au  | Mo   | Cu   | Pb   | Zn  | Ag   | Ni   | Co   | Mn  | Fe    | As   | U    | Au   | Th   | Sr  | Cd   | Sb   | Bi   | V   |
|     |            | kg    | ppb | ppm  | ppm  | ppm  | ppm | ppm  | ppm  | ppm  | ppm | %     | ppm  | ppm  | ppb  | ppm  | ppm | ppm  | ppm  | ppm  | ppm |
|     |            | 0.01  | 2   | 0.1  | 0.1  | 0.1  | 1   | 0.1  | 0.1  | 0.1  | 1   | 0.01  | 0.5  | 0.1  | 0.5  | 0.1  | 1   | 0.1  | 0.1  | 0.1  | 2   |
| BLK | Blank      |       |     | <0.1 | <0.1 | <0.1 | <1  | <0.1 | <0.1 | <0.1 | <1  | <0.01 | <0.5 | <0.1 | <0.5 | <0.1 | <1  | <0.1 | <0.1 | <0.1 | <2  |
|     | Prep Wash  |       |     |      |      |      |     |      |      |      |     |       |      |      |      |      |     |      |      |      |     |
| G1  | Prep Blank | <0.01 | <2  | 0.3  | 1.6  | 3.0  | 58  | <0.1 | 4.3  | 4.4  | 593 | 1.75  | <0.5 | 2.8  | 0.7  | 4.4  | 55  | <0.1 | 0.1  | <0.1 | 36  |
| G1  | Prep Blank | <0.01 | <2  | 0.3  | 1.7  | 3.0  | 52  | <0.1 | 3.8  | 4.0  | 568 | 1.77  | <0.5 | 2.7  | <0.5 | 4.3  | 57  | <0.1 | 0.1  | <0.1 | 37  |

QUALITY CONTROL REPORT

VAN07002981.1

|     |            | 1DX<br>Ca<br>% | 1DX<br>P<br>% | 1DX<br>La<br>ppm | 1DX<br>Cr<br>ppm | 1DX<br>Mg<br>% | 1DX<br>Ba<br>ppm | 1DX<br>Ti<br>% | 1DX<br>B<br>ppm | 1DX<br>Al<br>% | 1DX<br>Na<br>% | 1DX<br>K<br>% | 1DX<br>W<br>ppm | 1DX<br>Hg<br>ppm | 1DX<br>Sc<br>ppm | 1DX<br>Ti<br>ppm | 1DX<br>S<br>% | 1DX<br>Ga<br>ppm | 1DX<br>Se<br>ppm |
|-----|------------|----------------|---------------|------------------|------------------|----------------|------------------|----------------|-----------------|----------------|----------------|---------------|-----------------|------------------|------------------|------------------|---------------|------------------|------------------|
| BLK | Blank      | <0.01          | <0.001        | <1               | <1               | <0.01          | <1               | <0.001         | <20             | <0.01          | <0.001         | <0.01         | <0.1            | <0.01            | <0.1             | <0.1             | <0.05         | <1               | <0.5             |
|     | Prep Wash  |                |               |                  |                  |                |                  |                |                 |                |                |               |                 |                  |                  |                  |               |                  |                  |
| G1  | Prep Blank | 0.45           | 0.082         | 7                | 8                | 0.59           | 226              | 0.115          | <20             | 0.96           | 0.068          | 0.57          | <0.1            | <0.01            | 1.6              | 0.4              | <0.05         | 5                | <0.5             |
| G1  | Prep Blank | 0.48           | 0.081         | 6                | 9                | 0.58           | 225              | 0.109          | <20             | 0.98           | 0.067          | 0.53          | 0.2             | <0.01            | 1.8              | 0.4              | <0.05         | 5                | <0.5             |



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Kettle River Resources PROJECT 41

Acme file # A800132 Received: JAN 17 2008 \* 11 samples in this disk file.

Analysis: GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.

| ELEMENT  | Ag**  | Au**  |
|----------|-------|-------|
| SAMPLES  | gm/mt | gm/mt |
| 41199    | 117   | -     |
| 41200    | 118   | -     |
| 41204    | 183   | -     |
| 41205    | 563   | -     |
| 41206    | 498   | -     |
| 41207    | 1828  | -     |
| 41208    | 102   | -     |
| 41209    | 512   | -     |
| 41210    | 1897  | 4.04  |
| 41211    | 169   | -     |
| STANDARD | 196   | 3.52  |

APPENDIX 5c

Analytical Results – Drill Core Samples



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Client:

**Kettle River Resources Ltd.**

Box 130  
Greenwood B.C. V0H 1J0 Canada

Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

November 19, 2007

Report Date:

February 02, 2008

Page:

1 of 5

## CERTIFICATE OF ANALYSIS

VAN08003272.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number ddh7-8  
Number of Samples: 108

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                                      | Test Wgt (g) | Report Status |
|-------------|-------------------|-------------------------------------------------------|--------------|---------------|
| R150        | 102               | Crush split and pulverize drill core to 150mesh       |              |               |
| 1F          | 108               | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 30           | Completed     |

### SAMPLE DISPOSAL

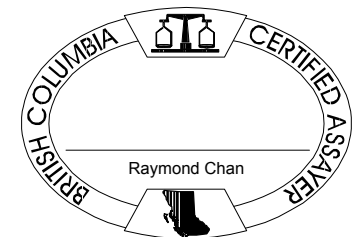
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.



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Project: 41  
 Report Date: February 02, 2008

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 |       |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As    | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm   | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1   | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12544   | Drill Core | 2.20 | 3.44  | 25.85 | 36.26 | 59.2   | 163     | 11.2  | 8.9  | 1691 | 2.94  | 11.4  | 0.9  | 3.1   | 9.0  | 616.3 | 0.21  | 0.59  | 0.16  | 34   | 7.50  |
| 12545   | Drill Core | 4.10 | 3.67  | 8.28  | 2.42  | 9.5    | 74      | 6.4   | 1.7  | 468  | 0.73  | 48.1  | 1.8  | 1.6   | 0.5  | 432.0 | 0.25  | 1.67  | 0.57  | 13   | 26.98 |
| 12546   | Drill Core | 3.70 | 5.68  | 34.94 | 2.22  | 12.2   | 165     | 10.2  | 3.1  | 349  | 0.55  | 28.7  | 1.4  | 1.6   | 0.5  | 245.6 | 0.23  | 1.79  | 0.80  | 14   | 20.30 |
| 12547   | Drill Core | 4.30 | 11.00 | 16.43 | 3.24  | 45.2   | 461     | 29.0  | 7.2  | 829  | 1.76  | 84.4  | 3.5  | 6.7   | 1.0  | 493.2 | 0.34  | 0.82  | 1.28  | 65   | 26.59 |
| 12548   | Drill Core | 4.00 | 12.81 | 19.47 | 3.89  | 47.6   | 378     | 47.4  | 11.1 | 1315 | 2.77  | 170.1 | 2.8  | 10.0  | 1.8  | 429.5 | 0.20  | 1.83  | 1.28  | 77   | 21.55 |
| 12549   | Drill Core | 0.60 | 13.90 | 12.75 | 8.08  | 525.1  | 1393    | 25.6  | 6.7  | 3083 | 10.14 | 1072  | 5.7  | 67.8  | 0.3  | 451.9 | 1.59  | 4.74  | 0.04  | 153  | 21.04 |
| 12550   | Rock Pulp  |      | 7.29  | 464.2 | 9293  | >10000 | ·100000 | 24.9  | 11.3 | 1260 | 7.41  | 4221  | 2.0  | 171.1 | 1.4  | 77.2  | 172.6 | 95.18 | 0.17  | 34   | 1.42  |
| 12551   | Drill Core | 7.10 | 5.69  | 8.34  | 2.92  | 36.5   | 70      | 11.6  | 3.9  | 511  | 0.84  | 27.3  | 3.6  | 2.5   | 0.5  | 652.6 | 0.24  | 0.48  | 0.04  | 40   | 32.25 |
| 12552   | Drill Core | 7.20 | 9.07  | 7.34  | 2.82  | 31.0   | 95      | 12.0  | 3.2  | 779  | 0.99  | 14.3  | 2.8  | 2.6   | 0.4  | 594.4 | 0.23  | 0.30  | <0.02 | 35   | 32.58 |
| 12553   | Drill Core | 4.00 | 4.19  | 3.06  | 1.48  | 10.4   | 30      | 5.4   | 1.7  | 1086 | 0.51  | 2.2   | 4.2  | 1.2   | 0.3  | 581.4 | 0.24  | 0.11  | <0.02 | 19   | 32.52 |
| 12554   | Drill Core | 4.90 | 4.30  | 6.81  | 1.08  | 10.1   | 30      | 5.6   | 2.4  | 1183 | 0.54  | 4.8   | 3.5  | 0.9   | 0.3  | 649.7 | 0.26  | 0.11  | <0.02 | 21   | 33.02 |
| 12555   | Drill Core | 4.60 | 3.29  | 10.90 | 7.46  | 33.7   | 720     | 11.4  | 5.8  | 1088 | 1.89  | 63.1  | 2.3  | 15.7  | 0.5  | 667.6 | 0.38  | 1.24  | 0.04  | 51   | 25.84 |
| 12556   | Drill Core | 4.30 | 1.79  | 6.55  | 2.62  | 24.8   | 90      | 7.4   | 3.1  | 1014 | 1.01  | 10.6  | 1.5  | 2.8   | 0.3  | 731.2 | 0.40  | 0.34  | 0.05  | 31   | 31.01 |
| 12557   | Drill Core | 3.80 | 2.66  | 25.81 | 3.68  | 59.1   | 104     | 28.0  | 13.3 | 1061 | 3.08  | 4.0   | 0.7  | 2.7   | 1.2  | 380.7 | 0.33  | 0.36  | 0.06  | 75   | 17.77 |
| 12558   | Drill Core | 7.20 | 1.14  | 56.73 | 4.42  | 64.3   | 210     | 10.5  | 17.1 | 831  | 2.85  | 4.4   | 0.3  | 3.7   | 1.2  | 268.3 | 0.23  | 0.47  | 0.22  | 102  | 5.26  |
| 12559   | Drill Core | 6.60 | 1.57  | 37.25 | 4.95  | 71.0   | 186     | 16.7  | 12.5 | 939  | 2.79  | 9.8   | 0.6  | 5.1   | 1.3  | 307.9 | 0.42  | 0.53  | 0.25  | 88   | 6.88  |
| 12560   | Rock       | 1.20 | 4.50  | 3.33  | 20.64 | 66.6   | 34      | 0.7   | 1.9  | 699  | 2.45  | 0.5   | 2.9  | 0.8   | 19.1 | 57.1  | 0.09  | 0.18  | 0.03  | 13   | 1.25  |
| 12561   | Drill Core | 4.10 | 1.47  | 6.68  | 3.42  | 49.1   | 134     | 21.7  | 10.0 | 1121 | 2.98  | 15.3  | 0.7  | 4.7   | 1.0  | 299.2 | 0.26  | 0.81  | 0.26  | 128  | 8.83  |
| 12562   | Drill Core | 2.00 | 5.58  | 5.51  | 9.64  | 53.7   | 38      | 0.4   | 1.8  | 426  | 2.68  | 1.5   | 1.8  | 2.4   | 19.8 | 180.8 | 0.04  | 0.20  | 0.07  | 5    | 1.21  |
| 12563   | Drill Core | 2.30 | 14.55 | 33.17 | 23.82 | 59.5   | 183     | 20.0  | 8.1  | 428  | 2.93  | 7.6   | 1.6  | 4.5   | 13.6 | 230.0 | 0.14  | 0.63  | 0.07  | 39   | 1.30  |
| 12564   | Drill Core | 6.00 | 4.48  | 31.08 | 14.81 | 70.7   | 98      | 33.8  | 13.8 | 940  | 3.73  | 4.7   | 1.2  | 1.9   | 11.5 | 281.9 | 0.11  | 0.29  | 0.05  | 63   | 3.52  |
| 12565   | Drill Core | 4.90 | 13.09 | 29.68 | 14.68 | 79.4   | 124     | 32.8  | 14.2 | 653  | 4.54  | 20.9  | 1.1  | 3.6   | 9.4  | 251.2 | 0.11  | 2.85  | 0.16  | 59   | 1.25  |
| 12566   | Drill Core | 6.50 | 13.27 | 54.87 | 10.70 | 119.4  | 288     | 61.8  | 16.7 | 1271 | 3.71  | 109.4 | 0.5  | 21.9  | 3.4  | 299.6 | 0.72  | 2.71  | 1.41  | 61   | 5.68  |
| 12567   | Drill Core | 7.00 | 21.55 | 63.17 | 11.41 | 87.5   | 406     | 49.3  | 13.9 | 597  | 2.81  | 66.0  | 0.5  | 11.5  | 1.9  | 233.3 | 0.86  | 1.74  | 0.96  | 60   | 11.06 |
| 12568   | Drill Core | 6.70 | 5.35  | 49.72 | 11.64 | 107.5  | 298     | 65.7  | 15.8 | 518  | 2.66  | 70.8  | 0.4  | 13.9  | 2.4  | 152.8 | 0.74  | 1.67  | 0.95  | 84   | 4.46  |
| 12569   | Drill Core | 4.40 | 14.42 | 52.45 | 8.64  | 44.5   | 248     | 87.0  | 16.6 | 509  | 3.03  | 41.4  | 0.8  | 8.4   | 2.7  | 168.9 | 0.23  | 1.54  | 0.72  | 75   | 7.56  |
| 12570   | Rock Pulp  |      | 7.30  | 448.1 | 9162  | >10000 | ·100000 | 24.8  | 11.8 | 1256 | 7.44  | 4260  | 2.0  | 165.4 | 1.4  | 77.5  | 171.5 | 97.46 | 0.17  | 35   | 1.42  |
| 12571   | Drill Core | 6.40 | 58.56 | 46.77 | 5.45  | 32.5   | 519     | 98.5  | 17.9 | 502  | 2.70  | 69.4  | 0.7  | 4.1   | 2.7  | 165.0 | 0.17  | 1.42  | 0.90  | 87   | 6.00  |
| 12572   | Drill Core | 6.80 | 11.34 | 70.16 | 6.01  | 33.3   | 225     | 119.6 | 20.8 | 410  | 2.59  | 84.4  | 0.5  | 2.6   | 2.7  | 106.1 | 0.18  | 1.50  | 1.28  | 63   | 2.81  |
| 12573   | Drill Core | 7.00 | 21.09 | 73.44 | 3.50  | 72.6   | 230     | 116.8 | 20.6 | 877  | 3.20  | 293.1 | 0.7  | 8.0   | 3.0  | 176.5 | 0.35  | 4.79  | 2.08  | 117  | 5.97  |



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Project: 41

Report Date: February 02, 2008

Page: 2 of 5 Part 2

# CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|--------|------|-------|-------|-------|------|------|-------|-------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B      | Al   | Na    | K     | W     | Sc   | Tl   | S     | Hg    | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm    | %    | %     | %     | ppm   | ppm  | ppm  | %     | ppb   | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1   | 0.1  | 0.02 | 0.02  | 5     | 0.1  | 0.02 | 0.1   |      |
| 12544   | Drill Core | 0.177 | 56.1 | 8.0  | 0.49 | 146.6 | 0.008  | <1   | 1.68  | 0.011 | 0.29  | <0.1 | 3.8  | 0.06  | 0.33  | 6    | 0.3  | 0.04  | 3.7  |
| 12545   | Drill Core | 0.044 | 3.5  | 8.8  | 0.39 | 22.3  | 0.038  | 27   | 0.28  | 0.008 | 0.05  | 0.7  | 1.3  | 0.04  | 0.17  | <5   | 0.6  | 0.12  | 1.2  |
| 12546   | Drill Core | 0.046 | 3.0  | 13.5 | 0.22 | 13.5  | 0.036  | 11   | 0.17  | 0.014 | 0.09  | 0.8  | 1.4  | 0.02  | 0.22  | <5   | 1.0  | 0.26  | 1.0  |
| 12547   | Drill Core | 0.069 | 4.8  | 36.4 | 1.13 | 20.9  | 0.061  | 3    | 0.71  | 0.013 | 0.05  | 1.0  | 4.1  | 0.02  | 0.71  | <5   | 1.5  | 0.33  | 3.2  |
| 12548   | Drill Core | 0.069 | 7.7  | 46.5 | 0.92 | 23.3  | 0.025  | 3    | 1.21  | 0.010 | 0.11  | 0.4  | 4.3  | 0.11  | 1.25  | <5   | 1.5  | 0.26  | 4.1  |
| 12549   | Drill Core | 0.049 | 4.9  | 32.8 | 1.26 | 7.4   | 0.007  | <1   | 0.61  | 0.002 | <0.01 | 0.4  | 10.8 | 0.28  | 5.93  | 68   | 1.2  | 0.22  | 4.3  |
| 12550   | Rock Pulp  | 0.049 | 4.5  | 23.8 | 0.45 | 31.6  | 0.037  | 2    | 0.85  | 0.050 | 0.13  | 1.0  | 2.6  | 0.61  | 5.80  | 871  | 22.2 | 0.04  | 3.3  |
| 12551   | Drill Core | 0.072 | 3.1  | 18.7 | 0.72 | 13.8  | 0.028  | <1   | 0.42  | 0.005 | 0.02  | 0.1  | 2.7  | <0.02 | 0.07  | 6    | 0.6  | 0.36  | 2.0  |
| 12552   | Drill Core | 0.048 | 2.6  | 15.5 | 0.82 | 17.9  | 0.028  | <1   | 0.40  | 0.004 | 0.06  | 0.1  | 2.5  | 0.02  | 0.15  | 6    | 0.8  | 0.34  | 1.8  |
| 12553   | Drill Core | 0.070 | 2.1  | 8.5  | 0.89 | 32.4  | 0.020  | <1   | 0.36  | 0.004 | 0.05  | <0.1 | 1.5  | <0.02 | <0.02 | <5   | 0.4  | 0.37  | 1.3  |
| 12554   | Drill Core | 0.055 | 2.4  | 9.8  | 1.04 | 63.1  | 0.022  | <1   | 0.37  | 0.004 | 0.07  | 0.2  | 1.4  | 0.03  | <0.02 | <5   | 0.5  | 0.33  | 1.4  |
| 12555   | Drill Core | 0.080 | 5.5  | 16.5 | 1.42 | 100.4 | 0.003  | 2    | 1.09  | 0.005 | 0.11  | 0.3  | 4.1  | 0.04  | 1.03  | 14   | 0.6  | 0.28  | 3.2  |
| 12556   | Drill Core | 0.041 | 3.4  | 12.3 | 1.01 | 35.2  | 0.007  | <1   | 0.49  | 0.005 | 0.04  | 0.1  | 2.6  | <0.02 | 0.27  | <5   | 0.7  | 0.26  | 2.1  |
| 12557   | Drill Core | 0.082 | 6.0  | 36.9 | 1.16 | 70.7  | 0.018  | <1   | 1.57  | 0.013 | 0.33  | <0.1 | 5.8  | 0.13  | 0.30  | <5   | 1.2  | 0.20  | 5.4  |
| 12558   | Drill Core | 0.082 | 6.6  | 16.4 | 2.11 | 164.8 | 0.068  | <1   | 1.96  | 0.079 | 0.23  | 0.1  | 11.0 | 0.07  | 0.48  | 9    | 3.9  | 0.05  | 7.2  |
| 12559   | Drill Core | 0.082 | 9.0  | 22.8 | 1.65 | 177.5 | 0.018  | 2    | 1.79  | 0.041 | 0.14  | 0.2  | 8.5  | 0.03  | 0.63  | 9    | 1.2  | 0.08  | 6.0  |
| 12560   | Rock       | 0.058 | 75.4 | 1.7  | 0.27 | 33.8  | 0.015  | <1   | 0.33  | 0.043 | 0.14  | <0.1 | 1.6  | <0.02 | 0.06  | <5   | 0.2  | <0.02 | 2.5  |
| 12561   | Drill Core | 0.093 | 8.8  | 36.1 | 1.37 | 260.1 | 0.036  | 2    | 1.52  | 0.025 | 0.13  | 1.3  | 8.9  | <0.02 | 0.47  | 9    | 1.0  | 0.12  | 5.6  |
| 12562   | Drill Core | 0.050 | 58.4 | 0.5  | 0.76 | 30.7  | <0.001 | <1   | 1.63  | 0.010 | 0.15  | <0.1 | 1.8  | 0.03  | 0.17  | <5   | 0.2  | 0.02  | 4.2  |
| 12563   | Drill Core | 0.151 | 51.8 | 32.8 | 1.58 | 23.8  | <0.001 | <1   | 2.29  | 0.004 | 0.12  | 0.1  | 5.0  | 0.02  | 0.19  | <5   | 0.4  | 0.02  | 4.7  |
| 12564   | Drill Core | 0.216 | 63.7 | 71.0 | 1.93 | 35.6  | 0.002  | <1   | 2.94  | 0.004 | 0.11  | <0.1 | 7.9  | <0.02 | 0.14  | <5   | 0.3  | 0.06  | 7.1  |
| 12565   | Drill Core | 0.197 | 52.2 | 47.9 | 3.04 | 24.2  | <0.001 | <1   | 3.78  | 0.005 | 0.15  | <0.1 | 7.0  | 0.04  | 0.24  | <5   | 0.6  | <0.02 | 9.1  |
| 12566   | Drill Core | 0.100 | 18.1 | 41.2 | 1.24 | 19.9  | 0.004  | <1   | 2.12  | 0.005 | 0.10  | 0.1  | 10.7 | 0.05  | 0.59  | 12   | 0.9  | 0.09  | 4.9  |
| 12567   | Drill Core | 0.093 | 8.9  | 42.3 | 0.85 | 33.7  | 0.075  | <1   | 0.72  | 0.059 | 0.04  | 0.3  | 5.4  | 0.04  | 1.20  | <5   | 1.2  | 0.14  | 3.3  |
| 12568   | Drill Core | 0.096 | 7.9  | 69.3 | 1.12 | 17.5  | 0.113  | <1   | 1.11  | 0.035 | 0.06  | 0.4  | 7.2  | 0.04  | 0.88  | <5   | 1.0  | 0.06  | 5.1  |
| 12569   | Drill Core | 0.120 | 11.1 | 45.1 | 1.01 | 44.3  | 0.122  | <1   | 1.39  | 0.113 | 0.08  | 0.4  | 4.3  | 0.07  | 1.36  | <5   | 1.5  | 0.12  | 5.0  |
| 12570   | Rock Pulp  | 0.050 | 4.7  | 26.4 | 0.46 | 34.8  | 0.043  | 1    | 1.04  | 0.053 | 0.14  | 0.9  | 2.7  | 0.59  | 5.86  | 827  | 22.9 | 0.07  | 3.5  |
| 12571   | Drill Core | 0.102 | 9.7  | 63.0 | 1.34 | 36.6  | 0.139  | <1   | 1.66  | 0.095 | 0.26  | 0.5  | 5.0  | 0.25  | 0.87  | <5   | 0.9  | 0.10  | 6.2  |
| 12572   | Drill Core | 0.101 | 9.4  | 58.1 | 0.73 | 18.1  | 0.133  | <1   | 1.28  | 0.132 | 0.19  | 0.8  | 3.7  | 0.15  | 1.16  | <5   | 1.4  | 0.07  | 4.8  |
| 12573   | Drill Core | 0.110 | 11.9 | 78.5 | 1.09 | 17.5  | 0.123  | <1   | 1.30  | 0.089 | 0.10  | 0.4  | 7.5  | 0.09  | 1.13  | <5   | 1.5  | 0.09  | 5.2  |



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**Project:** 41

**Report Date:** February 02, 2008

**Page:** 3 of 5 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08003272.1**

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30   | 1F30   | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|--------|--------|------|-------|------|------|------|-------|-------|------|------|-------|-------|------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn     | Ag     | Ni   | Co    | Mn   | Fe   | As   | U     | Au    | Th   | Sr   | Cd    | Sb    | Bi   | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm    | ppb    | ppm  | ppm   | ppm  | %    | ppm  | ppm   | ppb   | ppm  | ppm  | ppm   | ppm   | ppm  | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1    | 2      | 0.1  | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2   | 0.1  | 0.5  | 0.01  | 0.02  | 0.02 | 2     | 0.01 |       |
| 12574   | Drill Core | 7.30 | 13.88 | 99.74 | 4.49   | 17.8   | 185  | 102.6 | 19.8 | 303  | 1.72 | 178.7 | 0.6   | 3.3  | 3.0  | 111.0 | 0.18  | 1.18 | 4.24  | 38   | 4.35  |
| 12575   | Drill Core | 6.90 | 9.45  | 55.04 | 5.04   | 58.6   | 288  | 94.6  | 17.9 | 688  | 2.55 | 114.6 | 0.6   | 1.6  | 3.7  | 131.6 | 0.41  | 1.55 | 1.19  | 85   | 3.57  |
| 12576   | Drill Core | 6.00 | 9.48  | 54.96 | 25.06  | 129.1  | 207  | 93.3  | 18.3 | 586  | 1.77 | 102.5 | 0.8   | 2.0  | 2.9  | 140.2 | 1.65  | 1.44 | 1.38  | 75   | 6.96  |
| 12577   | Drill Core | 6.40 | 16.62 | 33.75 | 2.73   | 34.4   | 200  | 85.0  | 16.6 | 462  | 1.60 | 126.4 | 1.0   | 3.4  | 2.9  | 150.1 | 0.21  | 1.43 | 0.85  | 93   | 5.67  |
| 12578   | Drill Core | 6.70 | 15.37 | 28.94 | 2.88   | 25.7   | 119  | 83.6  | 13.4 | 345  | 1.12 | 92.5  | 0.7   | 1.6  | 2.0  | 163.5 | 0.33  | 1.35 | 0.41  | 65   | 5.72  |
| 12579   | Drill Core | 6.80 | 12.44 | 26.16 | 2.56   | 51.1   | 99   | 50.9  | 17.3 | 434  | 1.35 | 22.4  | 0.6   | 1.0  | 1.0  | 188.3 | 0.90  | 1.25 | 0.18  | 68   | 8.21  |
| 12580   | Rock       | 0.80 | 5.79  | 3.37  | 21.62  | 68.9   | 37   | 1.3   | 1.6  | 666  | 2.36 | 12.1  | 2.4   | 1.3  | 20.4 | 32.8  | 0.13  | 0.30 | 0.07  | 9    | 0.53  |
| 12581   | Drill Core | 3.70 | 15.85 | 14.00 | 5.94   | 33.4   | 199  | 37.0  | 4.7  | 646  | 1.42 | 29.4  | 1.5   | 2.8  | 1.0  | 505.0 | 0.32  | 1.02 | 0.24  | 59   | 21.02 |
| 12582   | Drill Core | 5.80 | 3.02  | 5.55  | 5.34   | 34.1   | 106  | 4.7   | 1.7  | 558  | 0.55 | 8.0   | 0.7   | 1.1  | 0.6  | 209.0 | 0.66  | 0.46 | 0.12  | 10   | 19.93 |
| 12583   | Drill Core | 4.70 | 1.98  | 6.59  | 3.46   | 17.0   | 77   | 3.0   | 1.1  | 305  | 0.31 | 6.6   | 0.9   | 1.4  | 0.3  | 449.9 | 0.46  | 0.35 | 0.14  | 8    | 31.52 |
| 12584   | Drill Core | 4.10 | 1.91  | 19.36 | 2.48   | 24.8   | 196  | 16.8  | 5.9  | 409  | 0.97 | 4.8   | 0.7   | 2.6  | 0.6  | 379.6 | 0.39  | 0.23 | 0.07  | 26   | 23.31 |
| 12585   | Drill Core | 7.80 | 4.01  | 20.92 | 3.62   | 75.4   | 118  | 66.4  | 14.9 | 457  | 2.74 | 9.4   | 0.8   | 2.5  | 1.9  | 259.0 | 0.32  | 0.66 | 0.13  | 117  | 9.79  |
| 12586   | Drill Core | 6.10 | 5.08  | 11.42 | 2.05   | 16.3   | 35   | 8.2   | 2.4  | 481  | 0.61 | 5.6   | 2.0   | 1.6  | 0.4  | 759.5 | 0.39  | 0.21 | 0.03  | 28   | 33.26 |
| 12587   | Drill Core | 6.00 | 5.14  | 4.29  | 1.48   | 14.2   | 19   | 5.7   | 1.9  | 883  | 0.69 | 3.6   | 2.5   | 0.4  | 0.3  | 792.4 | 0.26  | 0.15 | 0.02  | 27   | 34.29 |
| 12588   | Drill Core | 4.70 | 3.50  | 4.44  | 1.37   | 10.4   | 71   | 3.7   | 1.3  | 1118 | 0.49 | 5.3   | 2.6   | 0.9  | 0.3  | 673.7 | 0.28  | 0.13 | 0.02  | 17   | 31.42 |
| 12589   | Drill Core | 4.60 | 4.46  | 3.77  | 1.26   | 10.6   | 24   | 3.5   | 1.4  | 1093 | 0.50 | 2.0   | 2.9   | 0.5  | 0.2  | 676.5 | 0.31  | 0.10 | <0.02 | 15   | 31.94 |
| 12590   | Rock Pulp  | 7.02 | 469.3 | 9223  | >10000 | 100000 | 25.1 | 11.3  | 1283 | 7.44 | 4296 | 1.7   | 167.5 | 1.2  | 72.0 | 151.8 | 85.57 | 0.15 | 34    | 1.45 |       |
| 12591   | Drill Core | 4.70 | 2.65  | 2.83  | 1.76   | 9.0    | 56   | 2.8   | 1.3  | 1108 | 0.43 | 4.7   | 2.4   | 1.2  | 0.2  | 694.6 | 0.25  | 0.13 | <0.02 | 17   | 33.61 |
| 12592   | Drill Core | 4.70 | 2.37  | 3.10  | 1.09   | 10.0   | 23   | 3.7   | 1.4  | 922  | 0.45 | 2.4   | 1.5   | 0.4  | 0.3  | 710.8 | 0.24  | 0.14 | <0.02 | 16   | 31.86 |
| 12593   | Drill Core | 4.90 | 2.28  | 4.91  | 1.12   | 14.0   | 53   | 5.7   | 2.1  | 932  | 0.65 | 2.9   | 2.6   | 0.7  | 0.3  | 805.4 | 0.26  | 0.14 | <0.02 | 28   | 32.62 |
| 12594   | Drill Core | 3.10 | 1.85  | 2.49  | 1.54   | 16.5   | 43   | 7.2   | 2.4  | 1020 | 0.66 | 11.3  | 2.3   | 1.3  | 0.2  | 824.7 | 0.32  | 0.13 | <0.02 | 33   | 33.10 |
| 12595   | Drill Core | 2.80 | 3.50  | 24.58 | 3.01   | 26.1   | 161  | 13.7  | 6.7  | 1182 | 1.66 | 5.9   | 1.6   | 9.0  | 0.4  | 712.8 | 0.36  | 0.18 | 0.10  | 55   | 29.31 |
| 12596   | Drill Core | 5.60 | 1.54  | 25.62 | 7.99   | 52.7   | 225  | 7.6   | 7.3  | 1584 | 3.40 | 29.3  | 0.5   | 11.7 | 1.0  | 433.4 | 0.45  | 0.74 | 0.32  | 48   | 14.59 |
| 12597   | Drill Core | 4.80 | 0.87  | 63.21 | 9.63   | 53.1   | 379  | 8.8   | 32.6 | 1196 | 2.71 | 14.6  | 0.5   | 3.5  | 1.0  | 292.7 | 0.47  | 1.01 | 0.45  | 50   | 7.54  |
| 12598   | Drill Core | 5.70 | 0.91  | 116.4 | 14.22  | 96.8   | 392  | 7.6   | 12.9 | 1210 | 2.16 | 12.4  | 0.3   | 8.8  | 1.0  | 206.5 | 0.54  | 0.83 | 0.26  | 79   | 5.08  |
| 12599   | Drill Core | 5.70 | 4.11  | 5.27  | 21.84  | 67.2   | 229  | 0.6   | 1.8  | 509  | 2.31 | 13.0  | 1.4   | 7.3  | 15.8 | 59.7  | 0.14  | 0.28 | 0.24  | 13   | 1.32  |
| 12600   | Rock       | 0.80 | 6.96  | 3.98  | 22.72  | 75.5   | 60   | 0.6   | 1.8  | 634  | 2.42 | 16.1  | 2.1   | 3.0  | 17.9 | 45.8  | 0.18  | 0.56 | 0.08  | 9    | 0.83  |
| 12601   | Drill Core | 1.60 | 1.82  | 45.04 | 10.91  | 64.7   | 405  | 14.4  | 24.9 | 1217 | 3.24 | 11.7  | 0.6   | 11.9 | 1.9  | 401.0 | 0.32  | 0.22 | 0.55  | 60   | 7.08  |
| 12602   | Drill Core | 5.40 | 1.54  | 10.56 | 2.88   | 16.8   | 126  | 5.9   | 2.3  | 1218 | 0.78 | 3.7   | 1.3   | 1.8  | 0.4  | 645.3 | 0.27  | 0.13 | 0.03  | 26   | 32.85 |
| 12603   | Drill Core | 6.70 | 2.51  | 16.94 | 15.08  | 69.0   | 184  | 13.4  | 10.0 | 1618 | 2.19 | 10.8  | 0.8   | 4.1  | 1.0  | 462.9 | 0.56  | 0.41 | 0.38  | 67   | 17.67 |

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Report Date: February 02, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|-------|------|-------|-------|------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B     | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm   | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1     | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12574   | Drill Core | 0.116 | 9.1  | 27.9 | 0.34 | 15.2  | 0.123 | 2    | 0.70  | 0.098 | 0.07 | 0.5  | 2.3  | 0.03  | 0.86 | <5   | 1.9  | 0.07  | 3.0  |
| 12575   | Drill Core | 0.111 | 13.0 | 65.4 | 1.25 | 17.2  | 0.139 | 2    | 1.34  | 0.075 | 0.19 | 0.5  | 6.4  | 0.09  | 0.72 | <5   | 1.2  | 0.06  | 5.8  |
| 12576   | Drill Core | 0.117 | 9.4  | 46.0 | 0.61 | 12.4  | 0.121 | 1    | 1.25  | 0.125 | 0.06 | 0.5  | 4.0  | 0.04  | 0.63 | 6    | 1.5  | 0.07  | 5.0  |
| 12577   | Drill Core | 0.118 | 11.7 | 42.2 | 0.61 | 16.6  | 0.132 | 1    | 1.21  | 0.140 | 0.08 | 0.6  | 4.1  | 0.04  | 0.44 | <5   | 1.4  | 0.10  | 4.9  |
| 12578   | Drill Core | 0.100 | 7.8  | 25.7 | 0.36 | 19.7  | 0.093 | 3    | 1.26  | 0.151 | 0.05 | 0.4  | 2.7  | 0.02  | 0.36 | <5   | 1.6  | 0.08  | 4.0  |
| 12579   | Drill Core | 0.095 | 4.5  | 27.2 | 0.44 | 21.8  | 0.107 | 2    | 1.26  | 0.110 | 0.04 | 0.7  | 3.7  | 0.03  | 0.44 | 8    | 1.2  | 0.07  | 3.7  |
| 12580   | Rock       | 0.051 | 87.4 | 1.0  | 0.08 | 27.4  | 0.004 | <1   | 0.31  | 0.037 | 0.11 | <0.1 | 1.4  | 0.02  | 0.07 | 7    | <0.1 | <0.02 | 2.2  |
| 12581   | Drill Core | 0.093 | 5.3  | 28.1 | 0.53 | 24.3  | 0.074 | 3    | 0.60  | 0.030 | 0.05 | 0.7  | 4.2  | 0.04  | 0.55 | 28   | 1.4  | <0.02 | 2.5  |
| 12582   | Drill Core | 0.050 | 2.1  | 9.7  | 0.13 | 26.1  | 0.024 | 10   | 0.37  | 0.017 | 0.05 | 0.2  | 1.7  | 0.02  | 0.04 | 7    | 0.2  | <0.02 | 1.5  |
| 12583   | Drill Core | 0.042 | 1.8  | 5.5  | 0.13 | 14.6  | 0.017 | 4    | 0.18  | 0.006 | 0.02 | <0.1 | 0.9  | <0.02 | 0.07 | <5   | 0.4  | 0.03  | 0.8  |
| 12584   | Drill Core | 0.054 | 3.3  | 22.1 | 0.42 | 31.3  | 0.019 | 1    | 0.40  | 0.010 | 0.05 | 0.1  | 3.0  | 0.04  | 0.15 | 9    | 0.9  | 0.02  | 1.7  |
| 12585   | Drill Core | 0.112 | 6.2  | 82.3 | 1.80 | 607.2 | 0.101 | 10   | 2.01  | 0.056 | 0.69 | 0.2  | 5.9  | 0.26  | 0.19 | 9    | 1.9  | 0.03  | 6.8  |
| 12586   | Drill Core | 0.069 | 2.4  | 12.8 | 0.81 | 39.3  | 0.032 | <1   | 0.42  | 0.007 | 0.11 | <0.1 | 1.9  | 0.06  | 0.07 | <5   | 0.7  | 0.05  | 1.6  |
| 12587   | Drill Core | 0.062 | 2.5  | 13.4 | 1.14 | 66.0  | 0.034 | <1   | 0.51  | 0.008 | 0.12 | 0.1  | 1.7  | 0.08  | 0.05 | <5   | 0.4  | 0.05  | 1.8  |
| 12588   | Drill Core | 0.053 | 2.2  | 9.3  | 1.11 | 46.9  | 0.021 | <1   | 0.42  | 0.009 | 0.06 | 0.1  | 1.4  | 0.04  | 0.04 | <5   | 0.4  | 0.03  | 1.4  |
| 12589   | Drill Core | 0.067 | 2.1  | 8.8  | 1.00 | 99.8  | 0.017 | <1   | 0.37  | 0.007 | 0.04 | 0.1  | 1.5  | <0.02 | 0.05 | <5   | 0.4  | 0.04  | 1.2  |
| 12590   | Rock Pulp  | 0.050 | 4.1  | 24.5 | 0.43 | 32.3  | 0.038 | 3    | 1.03  | 0.051 | 0.13 | 0.9  | 2.7  | 0.58  | 6.02 | 755  | 22.1 | 0.04  | 3.7  |
| 12591   | Drill Core | 0.053 | 2.4  | 7.8  | 1.00 | 82.0  | 0.018 | <1   | 0.34  | 0.008 | 0.07 | <0.1 | 1.3  | 0.02  | 0.02 | <5   | 0.3  | 0.06  | 1.2  |
| 12592   | Drill Core | 0.070 | 2.2  | 9.0  | 0.96 | 179.5 | 0.028 | <1   | 0.46  | 0.008 | 0.07 | <0.1 | 1.4  | 0.02  | 0.04 | <5   | 0.3  | 0.03  | 1.5  |
| 12593   | Drill Core | 0.066 | 2.4  | 10.3 | 1.22 | 92.0  | 0.026 | <1   | 0.48  | 0.008 | 0.11 | 0.1  | 1.7  | 0.04  | 0.08 | <5   | 0.4  | 0.04  | 1.9  |
| 12594   | Drill Core | 0.056 | 2.5  | 12.5 | 1.09 | 40.5  | 0.019 | <1   | 0.46  | 0.007 | 0.04 | <0.1 | 2.2  | <0.02 | 0.09 | <5   | 0.4  | 0.04  | 2.2  |
| 12595   | Drill Core | 0.076 | 4.8  | 19.4 | 0.98 | 50.4  | 0.006 | <1   | 0.67  | 0.008 | 0.08 | <0.1 | 4.1  | 0.02  | 0.68 | <5   | 2.1  | 0.05  | 3.5  |
| 12596   | Drill Core | 0.075 | 6.6  | 10.9 | 1.23 | 154.0 | 0.005 | 3    | 1.66  | 0.016 | 0.24 | 7.6  | 7.6  | 0.07  | 0.49 | 7    | 1.0  | 0.03  | 5.2  |
| 12597   | Drill Core | 0.097 | 5.0  | 9.6  | 1.33 | 142.2 | 0.031 | 3    | 1.62  | 0.074 | 0.21 | 1.3  | 9.5  | 0.08  | 0.98 | 6    | 1.9  | 0.02  | 4.5  |
| 12598   | Drill Core | 0.094 | 3.6  | 14.2 | 1.63 | 144.0 | 0.096 | 2    | 1.46  | 0.056 | 0.12 | 5.5  | 10.6 | 0.04  | 0.25 | <5   | 0.8  | <0.02 | 5.1  |
| 12599   | Drill Core | 0.053 | 68.0 | 1.1  | 0.44 | 41.0  | 0.003 | <1   | 0.91  | 0.040 | 0.10 | <0.1 | 1.5  | 0.02  | 0.16 | <5   | 0.2  | <0.02 | 8.4  |
| 12600   | Rock       | 0.057 | 78.4 | 0.8  | 0.16 | 29.7  | 0.003 | <1   | 0.27  | 0.039 | 0.11 | 0.1  | 1.5  | 0.03  | 0.05 | 8    | <0.1 | <0.02 | 2.2  |
| 12601   | Drill Core | 0.094 | 8.6  | 13.6 | 1.52 | 86.9  | 0.001 | 1    | 1.91  | 0.022 | 0.26 | 0.1  | 7.8  | 0.07  | 1.36 | <5   | 3.3  | 0.03  | 6.5  |
| 12602   | Drill Core | 0.050 | 3.1  | 10.8 | 0.68 | 33.4  | 0.004 | <1   | 0.44  | 0.003 | 0.04 | <0.1 | 2.2  | <0.02 | 0.08 | <5   | 0.5  | 0.03  | 2.0  |
| 12603   | Drill Core | 0.079 | 7.2  | 20.0 | 1.47 | 55.1  | 0.012 | <1   | 1.52  | 0.020 | 0.12 | 0.3  | 6.6  | 0.03  | 0.40 | <5   | 1.2  | <0.02 | 5.6  |



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Project: 41

Report Date: February 02, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  |
|---------|------------|------|-------|-------|--------|---------|------|------|------|------|------|------|-------|------|------|-------|-------|------|------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn     | Ag      | Ni   | Co   | Mn   | Fe   | As   | U    | Au    | Th   | Sr   | Cd    | Sb    | Bi   | V    | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm    | ppb     | ppm  | ppm  | ppm  | %    | ppm  | ppm  | ppb   | ppm  | ppm  | ppm   | ppm   | ppm  | ppm  | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1    | 2       | 0.1  | 0.1  | 1    | 0.01 | 0.1  | 0.1  | 0.2   | 0.1  | 0.5  | 0.01  | 0.02  | 0.02 | 2    | 0.01 |       |
| 12604   | Drill Core | 7.20 | 1.23  | 79.37 | 21.73  | 116.7   | 610  | 7.1  | 8.4  | 1290 | 1.72 | 11.7 | 0.3   | 6.9  | 0.8  | 233.0 | 1.12  | 0.54 | 0.25 | 59   | 5.85  |
| 12605   | Drill Core | 6.80 | 2.56  | 69.72 | 8.51   | 93.6    | 245  | 10.5 | 12.2 | 1674 | 3.04 | 13.4 | 0.4   | 2.0  | 1.0  | 273.6 | 0.34  | 0.57 | 0.18 | 80   | 6.48  |
| 12606   | Drill Core | 4.40 | 7.12  | 7.09  | 3.58   | 38.7    | 285  | 5.4  | 5.7  | 1427 | 1.77 | 16.7 | 0.3   | 0.6  | 0.5  | 294.6 | 0.23  | 1.38 | 0.14 | 44   | 9.24  |
| 12607   | Drill Core | 4.00 | 7.51  | 14.22 | 5.99   | 63.2    | 77   | 8.3  | 7.1  | 1800 | 2.05 | 18.5 | 0.4   | 1.3  | 0.6  | 290.7 | 0.39  | 0.86 | 0.14 | 65   | 8.58  |
| 12608   | Drill Core | 5.90 | 2.77  | 25.66 | 2.30   | 19.3    | 160  | 8.3  | 3.3  | 1260 | 0.92 | 16.9 | 1.6   | 1.3  | 0.3  | 546.5 | 0.61  | 0.47 | 0.04 | 29   | 28.64 |
| 12609   | Drill Core | 6.70 | 3.69  | 17.91 | 2.11   | 30.2    | 150  | 9.8  | 5.3  | 808  | 1.33 | 14.6 | 1.1   | 4.2  | 0.6  | 421.3 | 0.39  | 0.41 | 0.06 | 47   | 22.50 |
| 12610   | Rock Pulp  | 6.95 | 470.4 | 9256  | >10000 | >100000 | 25.2 | 11.2 | 1257 | 7.50 | 4374 | 1.6  | 162.9 | 1.2  | 70.8 | 156.8 | 84.74 | 0.15 | 34   | 1.41 |       |
| 12611   | Drill Core | 4.10 | 3.51  | 8.53  | 2.47   | 33.7    | 127  | 10.1 | 5.1  | 687  | 1.12 | 10.3 | 1.2   | 1.7  | 0.6  | 576.1 | 0.38  | 0.26 | 0.04 | 47   | 26.07 |
| 12612   | Drill Core | 0.60 | 4.59  | 14.05 | 3.14   | 31.7    | 149  | 7.7  | 3.1  | 1600 | 1.34 | 5.6  | 1.3   | 1.1  | 0.4  | 715.1 | 0.62  | 0.10 | 0.03 | 51   | 28.03 |
| 12613   | Drill Core | 2.30 | 0.73  | 24.86 | 6.08   | 94.2    | 527  | 10.5 | 14.9 | 924  | 4.76 | 16.9 | 0.8   | 4.6  | 1.0  | 279.2 | 1.16  | 0.24 | 0.15 | 97   | 7.90  |
| 12614   | Drill Core | 5.60 | 2.38  | 21.10 | 21.88  | 59.4    | 302  | 10.1 | 5.0  | 1436 | 1.88 | 13.6 | 1.2   | 1.7  | 0.4  | 429.1 | 1.11  | 0.52 | 0.08 | 43   | 23.73 |
| 12615   | Drill Core | 6.90 | 2.79  | 17.90 | 2.55   | 14.8    | 112  | 5.1  | 3.1  | 1114 | 0.58 | 4.8  | 1.5   | 1.8  | 0.3  | 466.3 | 0.98  | 0.58 | 0.02 | 18   | 28.14 |
| 12616   | Drill Core | 7.20 | 3.50  | 6.51  | 1.54   | 5.6     | 39   | 3.8  | 1.0  | 1047 | 0.35 | 2.5  | 1.4   | 2.4  | 0.2  | 553.3 | 0.71  | 0.77 | 0.04 | 4    | 28.56 |
| 12617   | Drill Core | 6.80 | 2.62  | 7.04  | 1.58   | 19.3    | 69   | 9.8  | 3.5  | 653  | 0.73 | 3.0  | 0.8   | 1.7  | 0.3  | 349.9 | 0.36  | 0.43 | 0.04 | 31   | 19.12 |
| 12618   | Drill Core | 6.30 | 3.11  | 13.66 | 2.41   | 18.7    | 66   | 2.8  | 1.5  | 494  | 0.30 | 1.9  | 0.9   | 1.6  | 0.3  | 483.5 | 0.58  | 0.44 | 0.03 | 11   | 23.52 |
| 12619   | Drill Core | 6.80 | 2.94  | 38.51 | 4.57   | 70.6    | 213  | 18.9 | 7.3  | 399  | 1.25 | 3.0  | 0.8   | 2.0  | 0.5  | 342.1 | 0.65  | 0.49 | 0.07 | 61   | 14.63 |
| 12620   | Rock       | 0.60 | 7.07  | 3.16  | 19.85  | 67.4    | 54   | 0.3  | 1.6  | 582  | 2.21 | 19.2 | 2.0   | 1.5  | 19.1 | 60.3  | 0.18  | 0.64 | 0.07 | 7    | 1.73  |
| 12621   | Drill Core | 6.80 | 1.23  | 6.77  | 3.78   | 98.9    | 111  | 33.1 | 11.5 | 424  | 2.76 | 3.7  | 1.1   | 1.1  | 1.6  | 307.7 | 0.44  | 0.52 | 0.11 | 130  | 9.14  |
| 12622   | Drill Core | 6.80 | 4.94  | 29.13 | 3.42   | 63.1    | 189  | 19.4 | 8.1  | 533  | 2.06 | 4.2  | 1.4   | 1.0  | 1.2  | 502.7 | 0.62  | 0.31 | 0.11 | 111  | 21.09 |
| 12623   | Drill Core | 7.20 | 3.75  | 23.53 | 2.62   | 46.6    | 134  | 13.2 | 7.0  | 403  | 1.36 | 4.1  | 1.2   | 0.6  | 0.6  | 555.6 | 0.49  | 0.47 | 0.07 | 74   | 21.80 |
| 12624   | Drill Core | 7.20 | 5.22  | 31.84 | 5.61   | 64.8    | 226  | 25.2 | 10.4 | 460  | 1.65 | 6.3  | 1.0   | 0.7  | 0.6  | 468.1 | 0.69  | 0.67 | 0.31 | 94   | 13.30 |
| 12625   | Drill Core | 6.50 | 4.53  | 29.62 | 3.51   | 21.4    | 180  | 12.0 | 7.4  | 298  | 0.68 | 8.7  | 0.8   | 1.2  | 0.4  | 377.5 | 0.51  | 1.15 | 0.19 | 38   | 13.21 |
| 12626   | Drill Core | 6.40 | 4.80  | 50.09 | 4.59   | 30.1    | 362  | 13.0 | 7.5  | 232  | 0.80 | 11.7 | 1.2   | 1.0  | 0.6  | 329.8 | 0.74  | 1.53 | 0.31 | 47   | 10.38 |
| 12627   | Drill Core | 7.10 | 5.85  | 42.09 | 5.79   | 50.8    | 317  | 10.7 | 9.1  | 266  | 1.69 | 9.2  | 1.2   | 0.5  | 0.6  | 369.7 | 0.40  | 1.07 | 0.29 | 66   | 9.55  |
| 12628   | Drill Core | 6.70 | 3.30  | 67.05 | 6.38   | 43.1    | 327  | 15.9 | 5.4  | 291  | 1.11 | 7.7  | 2.7   | 0.6  | 0.7  | 450.4 | 1.06  | 1.01 | 0.12 | 81   | 13.25 |
| 12629   | Drill Core | 7.00 | 4.06  | 26.92 | 5.41   | 25.0    | 162  | 8.5  | 3.2  | 345  | 0.77 | 7.6  | 3.0   | 0.7  | 0.6  | 583.3 | 0.53  | 0.78 | 0.10 | 53   | 23.02 |
| 12630   | Rock Pulp  | 7.33 | 514.8 | 9441  | >10000 | >100000 | 25.8 | 11.9 | 1250 | 7.60 | 4380 | 2.0  | 156.6 | 1.4  | 77.6 | 179.6 | 95.91 | 0.18 | 32   | 1.41 |       |
| 12631   | Drill Core | 6.60 | 3.15  | 25.44 | 11.79  | 56.9    | 298  | 20.3 | 9.6  | 367  | 1.83 | 17.0 | 2.7   | 1.0  | 1.2  | 431.7 | 0.43  | 0.62 | 0.20 | 112  | 12.86 |
| 12632   | Drill Core | 7.20 | 5.14  | 33.95 | 6.67   | 31.0    | 237  | 9.8  | 4.7  | 324  | 0.88 | 7.8  | 2.2   | 1.0  | 0.7  | 687.5 | 0.46  | 0.48 | 0.08 | 57   | 21.47 |
| 12633   | Drill Core | 7.50 | 4.10  | 41.20 | 9.43   | 40.9    | 270  | 15.3 | 6.0  | 207  | 1.04 | 20.0 | 2.2   | 0.7  | 1.2  | 334.3 | 0.55  | 0.75 | 0.17 | 65   | 10.23 |





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Report Date: February 02, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|-------|------|-------|-------|-------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B     | Al   | Na    | K     | W     | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm   | %    | %     | %     | ppm   | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1     | 0.01 | 0.001 | 0.01  | 0.1   | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12604   | Drill Core | 0.084 | 2.7  | 11.5 | 1.69 | 155.7 | 0.089 | 2    | 1.38  | 0.050 | 0.10  | 1.3  | 7.7  | 0.02  | 0.26 | 7    | 0.6  | <0.02 | 4.7  |
| 12605   | Drill Core | 0.100 | 3.6  | 16.7 | 1.66 | 65.8  | 0.117 | <1   | 1.71  | 0.067 | 0.08  | 1.1  | 9.7  | 0.03  | 0.20 | <5   | 0.8  | <0.02 | 7.2  |
| 12606   | Drill Core | 0.110 | 1.5  | 10.4 | 0.88 | 30.7  | 0.101 | <1   | 0.77  | 0.026 | 0.05  | 10.6 | 4.7  | <0.02 | 0.19 | <5   | 0.2  | 0.02  | 4.3  |
| 12607   | Drill Core | 0.109 | 2.7  | 17.6 | 1.00 | 41.8  | 0.109 | <1   | 1.16  | 0.020 | 0.06  | 4.5  | 7.5  | <0.02 | 0.21 | <5   | 0.3  | <0.02 | 4.9  |
| 12608   | Drill Core | 0.056 | 2.1  | 13.9 | 0.83 | 17.7  | 0.048 | <1   | 0.41  | 0.019 | 0.02  | 0.3  | 2.7  | <0.02 | 0.26 | <5   | 0.7  | 0.03  | 2.3  |
| 12609   | Drill Core | 0.070 | 2.9  | 13.9 | 0.64 | 24.8  | 0.044 | <1   | 0.47  | 0.018 | 0.02  | 0.2  | 3.6  | <0.02 | 0.48 | <5   | 2.1  | 0.03  | 3.0  |
| 12610   | Rock Pulp  | 0.049 | 4.0  | 23.8 | 0.42 | 33.5  | 0.038 | 3    | 1.02  | 0.048 | 0.14  | 1.0  | 2.6  | 0.56  | 5.80 | 748  | 22.3 | 0.06  | 3.7  |
| 12611   | Drill Core | 0.077 | 6.2  | 12.5 | 0.54 | 21.0  | 0.013 | <1   | 0.50  | 0.008 | 0.03  | <0.1 | 3.8  | <0.02 | 0.15 | <5   | 1.1  | 0.04  | 3.2  |
| 12612   | Drill Core | 0.052 | 4.6  | 15.9 | 0.95 | 47.4  | 0.003 | <1   | 0.77  | 0.008 | 0.05  | 0.1  | 3.2  | <0.02 | 0.13 | <5   | 0.7  | 0.05  | 4.4  |
| 12613   | Drill Core | 0.111 | 5.3  | 14.0 | 1.83 | 205.7 | 0.027 | <1   | 2.18  | 0.050 | 0.21  | 0.1  | 8.2  | 0.07  | 1.32 | <5   | 2.7  | 0.11  | 9.4  |
| 12614   | Drill Core | 0.071 | 2.5  | 15.3 | 1.16 | 437.6 | 0.047 | <1   | 0.78  | 0.012 | 0.03  | 0.6  | 4.2  | <0.02 | 0.15 | 8    | 0.9  | 0.03  | 3.8  |
| 12615   | Drill Core | 0.065 | 1.6  | 7.3  | 0.57 | 104.0 | 0.052 | <1   | 0.32  | 0.022 | 0.02  | 0.2  | 1.5  | <0.02 | 0.12 | <5   | 1.0  | <0.02 | 1.6  |
| 12616   | Drill Core | 0.054 | 1.3  | 4.2  | 0.24 | 18.9  | 0.035 | <1   | 0.14  | 0.009 | <0.01 | 0.2  | 0.8  | <0.02 | 0.11 | <5   | 0.4  | 0.15  | 0.6  |
| 12617   | Drill Core | 0.079 | 1.5  | 16.6 | 0.41 | 28.3  | 0.063 | <1   | 0.38  | 0.011 | 0.13  | 0.2  | 1.5  | 0.05  | 0.03 | <5   | 0.5  | 0.11  | 1.5  |
| 12618   | Drill Core | 0.070 | 1.7  | 4.7  | 0.15 | 7.2   | 0.038 | <1   | 0.13  | 0.011 | 0.02  | 0.1  | 1.1  | <0.02 | 0.07 | <5   | 0.6  | 0.14  | 0.7  |
| 12619   | Drill Core | 0.079 | 2.3  | 25.1 | 0.66 | 23.1  | 0.077 | <1   | 0.56  | 0.030 | 0.05  | 0.2  | 3.4  | 0.02  | 0.09 | <5   | 2.9  | 0.12  | 2.9  |
| 12620   | Rock       | 0.053 | 77.3 | 0.7  | 0.13 | 19.4  | 0.002 | <1   | 0.22  | 0.029 | 0.09  | <0.1 | 1.3  | 0.03  | 0.07 | <5   | <0.1 | <0.02 | 1.9  |
| 12621   | Drill Core | 0.080 | 14.2 | 42.4 | 1.07 | 34.5  | 0.029 | <1   | 1.33  | 0.027 | 0.11  | <0.1 | 6.7  | 0.02  | 0.15 | <5   | 2.1  | 0.06  | 6.0  |
| 12622   | Drill Core | 0.105 | 10.1 | 27.5 | 0.93 | 20.9  | 0.016 | <1   | 1.10  | 0.019 | 0.06  | <0.1 | 6.5  | <0.02 | 0.14 | <5   | 2.9  | 0.16  | 5.3  |
| 12623   | Drill Core | 0.084 | 4.1  | 17.9 | 0.68 | 17.9  | 0.049 | <1   | 0.55  | 0.030 | 0.05  | 0.2  | 4.0  | <0.02 | 0.16 | <5   | 2.0  | 0.11  | 2.9  |
| 12624   | Drill Core | 0.086 | 3.6  | 35.2 | 0.97 | 39.0  | 0.094 | <1   | 0.78  | 0.053 | 0.04  | 0.3  | 5.3  | <0.02 | 0.17 | <5   | 4.7  | 0.11  | 4.2  |
| 12625   | Drill Core | 0.085 | 2.4  | 11.7 | 0.23 | 21.0  | 0.079 | <1   | 0.31  | 0.025 | 0.03  | 0.2  | 1.6  | <0.02 | 0.21 | <5   | 5.4  | 0.13  | 1.6  |
| 12626   | Drill Core | 0.094 | 3.2  | 19.5 | 0.26 | 38.1  | 0.090 | <1   | 0.73  | 0.070 | 0.07  | 0.4  | 2.2  | 0.03  | 0.18 | <5   | 6.8  | 0.06  | 2.7  |
| 12627   | Drill Core | 0.101 | 3.2  | 16.4 | 1.03 | 77.7  | 0.120 | 1    | 1.45  | 0.122 | 0.08  | 0.3  | 2.3  | 0.05  | 0.17 | <5   | 4.1  | 0.09  | 5.2  |
| 12628   | Drill Core | 0.112 | 5.6  | 21.2 | 0.51 | 65.2  | 0.088 | 1    | 0.56  | 0.035 | 0.06  | 0.3  | 2.8  | <0.02 | 0.08 | <5   | 3.4  | 0.08  | 2.8  |
| 12629   | Drill Core | 0.090 | 6.2  | 15.5 | 0.53 | 48.7  | 0.066 | 2    | 0.46  | 0.037 | 0.04  | 0.3  | 2.1  | <0.02 | 0.09 | <5   | 1.8  | 0.15  | 2.2  |
| 12630   | Rock Pulp  | 0.051 | 4.4  | 25.9 | 0.46 | 33.7  | 0.037 | 2    | 0.92  | 0.051 | 0.14  | 0.9  | 2.6  | 0.58  | 5.83 | 788  | 21.8 | 0.04  | 3.3  |
| 12631   | Drill Core | 0.107 | 7.2  | 24.1 | 0.79 | 83.3  | 0.124 | 2    | 1.18  | 0.069 | 0.06  | 0.5  | 4.4  | <0.02 | 0.21 | <5   | 4.8  | 0.09  | 5.1  |
| 12632   | Drill Core | 0.090 | 5.6  | 12.7 | 0.42 | 66.9  | 0.073 | 4    | 0.50  | 0.027 | 0.04  | 0.2  | 2.5  | <0.02 | 0.08 | <5   | 2.7  | 0.19  | 2.8  |
| 12633   | Drill Core | 0.095 | 9.0  | 20.9 | 0.28 | 117.6 | 0.100 | 4    | 0.83  | 0.073 | 0.07  | 0.4  | 2.2  | 0.03  | 0.12 | <5   | 3.4  | 0.10  | 3.4  |



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Project: 41

Report Date: February 02, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003272.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co   | Mn   | Fe   | As   | U    | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm  | ppm  | %    | ppm  | ppm  | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1  | 1    | 0.01 | 0.1  | 0.1  | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12634   | Drill Core | 7.20 | 5.87  | 51.66 | 3.64  | 42.9   | 209     | 16.2 | 8.2  | 423  | 1.65 | 20.8 | 1.9  | 2.0   | 0.9  | 544.8 | 0.56  | 0.56  | 0.10  | 88   | 19.74 |
| 12635   | Drill Core | 3.70 | 19.01 | 38.49 | 5.96  | 54.2   | 309     | 24.0 | 7.8  | 523  | 1.84 | 54.0 | 2.9  | 5.2   | 1.5  | 625.6 | 0.50  | 0.93  | 0.20  | 128  | 16.42 |
| 12636   | Drill Core | 7.00 | 3.24  | 33.74 | 9.57  | 35.0   | 248     | 13.5 | 4.9  | 587  | 1.27 | 47.1 | 3.0  | 14.6  | 1.7  | 721.6 | 0.46  | 1.13  | 0.27  | 59   | 26.82 |
| 12637   | Drill Core | 6.90 | 2.90  | 30.33 | 9.98  | 50.5   | 209     | 20.2 | 10.7 | 300  | 1.35 | 17.0 | 2.3  | 2.3   | 3.4  | 510.4 | 0.45  | 1.17  | 0.33  | 59   | 12.38 |
| 12638   | Drill Core | 6.70 | 3.01  | 20.11 | 3.93  | 42.0   | 197     | 14.8 | 6.1  | 364  | 1.11 | 21.1 | 2.6  | 1.6   | 1.3  | 838.5 | 0.53  | 0.75  | 0.07  | 69   | 23.22 |
| 12639   | Drill Core | 3.10 | 2.99  | 35.55 | 7.14  | 44.5   | 482     | 14.7 | 5.2  | 317  | 1.08 | 27.8 | 2.6  | 1.8   | 1.8  | 504.3 | 0.55  | 1.41  | 0.17  | 60   | 14.59 |
| 12640   | Rock       | 1.00 | 3.58  | 2.66  | 13.70 | 63.9   | 41      | 0.6  | 1.8  | 638  | 2.31 | 5.2  | 2.2  | 3.4   | 19.0 | 43.8  | 0.09  | 0.26  | 0.07  | 8    | 0.73  |
| 12641   | Drill Core | 6.30 | 5.63  | 25.97 | 5.83  | 65.3   | 186     | 28.6 | 4.7  | 246  | 0.94 | 24.2 | 4.5  | 1.7   | 1.7  | 575.3 | 0.86  | 0.61  | 0.06  | 93   | 15.97 |
| 12642   | Drill Core | 7.20 | 4.90  | 18.05 | 3.08  | 44.9   | 106     | 14.4 | 2.7  | 209  | 0.43 | 25.8 | 3.6  | 0.9   | 0.9  | 687.4 | 1.17  | 0.50  | 0.04  | 36   | 23.45 |
| 12643   | Drill Core | 6.60 | 2.63  | 15.09 | 1.89  | 23.4   | 97      | 11.3 | 1.9  | 228  | 0.36 | 21.7 | 2.6  | 0.8   | 0.7  | 813.4 | 0.66  | 0.48  | 0.03  | 27   | 26.99 |
| 12644   | Drill Core | 6.60 | 3.20  | 10.36 | 1.35  | 18.6   | 83      | 4.6  | 2.1  | 345  | 0.33 | 30.1 | 2.0  | 24.1  | 0.3  | 891.9 | 0.55  | 0.40  | <0.02 | 9    | 29.61 |
| 12645   | Drill Core | 5.10 | 2.01  | 27.89 | 6.97  | 48.9   | 267     | 13.2 | 8.4  | 469  | 2.43 | 40.1 | 1.2  | 0.8   | 1.8  | 535.7 | 0.57  | 1.20  | 0.10  | 84   | 16.91 |
| 12646   | Drill Core | 4.90 | 4.60  | 7.00  | 12.91 | 43.3   | 93      | 1.8  | 2.3  | 541  | 2.26 | 12.5 | 2.3  | 0.7   | 23.6 | 177.7 | 0.11  | 0.38  | 0.03  | 10   | 2.82  |
| 12647   | Drill Core | 1.30 | 5.49  | 5.85  | 31.49 | 17.2   | 137     | 0.2  | 1.1  | 1078 | 0.88 | 35.7 | 1.9  | 29.4  | 17.5 | 541.4 | 0.14  | 0.59  | 0.02  | 4    | 7.85  |
| 12648   | Drill Core | 5.30 | 4.45  | 7.11  | 15.54 | 49.1   | 105     | 0.9  | 1.9  | 329  | 2.17 | 6.4  | 2.9  | 2.7   | 24.5 | 208.7 | 0.08  | 0.35  | 0.03  | 10   | 1.51  |
| 12649   | Drill Core | 5.00 | 2.90  | 10.77 | 13.23 | 50.4   | 81      | 14.8 | 7.2  | 486  | 1.47 | 35.1 | 2.5  | 0.8   | 1.4  | 620.2 | 0.54  | 0.74  | 0.06  | 81   | 14.99 |
| 12650   | Rock Pulp  |      | 7.08  | 449.5 | 9401  | >10000 | ·100000 | 25.2 | 11.5 | 1254 | 7.46 | 4167 | 1.9  | 154.0 | 1.4  | 71.2  | 172.1 | 91.46 | 0.16  | 32   | 1.36  |
| 13801   | Drill Core | 4.30 | 6.90  | 12.90 | 13.93 | 38.3   | 118     | 18.7 | 3.7  | 380  | 0.98 | 45.8 | 3.5  | <0.2  | 1.7  | 800.1 | 0.59  | 0.60  | 0.08  | 77   | 17.82 |



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**Project:** 41

**Report Date:** February 02, 2008

**Page:** 5 of 5 **Part** 2

**CERTIFICATE OF ANALYSIS**

**VAN08003272.1**

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|--------|------|-------|-------|------|------|------|------|-------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S    | Hg    | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %    | ppb   | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02 | 5     | 0.1  | 0.02 | 0.1   |      |
| 12634   | Drill Core | 0.075 | 7.9  | 19.9 | 0.80 | 211.2 | 0.087  | 4    | 1.09  | 0.042 | 0.14 | 0.3  | 4.9  | 0.10 | 0.16  | <5   | 3.0  | 0.12  | 3.8  |
| 12635   | Drill Core | 0.126 | 11.7 | 32.5 | 0.71 | 203.9 | 0.094  | 6    | 0.81  | 0.035 | 0.05 | 0.6  | 5.8  | 0.09 | 0.27  | <5   | 3.4  | 0.17  | 4.1  |
| 12636   | Drill Core | 0.101 | 10.3 | 14.5 | 0.44 | 138.3 | 0.069  | 20   | 1.19  | 0.143 | 0.11 | 0.8  | 3.4  | 0.07 | 0.21  | <5   | 3.5  | 0.17  | 3.5  |
| 12637   | Drill Core | 0.089 | 13.6 | 15.0 | 0.46 | 138.1 | 0.089  | 7    | 1.35  | 0.103 | 0.12 | 0.4  | 2.7  | 0.08 | 0.16  | <5   | 4.9  | 0.05  | 4.6  |
| 12638   | Drill Core | 0.103 | 8.1  | 16.9 | 0.52 | 224.2 | 0.075  | 5    | 0.67  | 0.057 | 0.08 | 0.2  | 3.6  | 0.07 | 0.12  | <5   | 2.9  | 0.13  | 2.9  |
| 12639   | Drill Core | 0.103 | 13.0 | 10.9 | 0.35 | 171.1 | 0.076  | 8    | 1.10  | 0.054 | 0.10 | 1.0  | 2.5  | 0.04 | 0.08  | <5   | 3.0  | 0.06  | 3.3  |
| 12640   | Rock       | 0.055 | 77.2 | 0.8  | 0.13 | 20.4  | 0.006  | <1   | 0.36  | 0.037 | 0.11 | 0.1  | 1.2  | 0.02 | 0.03  | <5   | <0.1 | <0.02 | 2.5  |
| 12641   | Drill Core | 0.127 | 18.9 | 32.4 | 0.50 | 162.9 | 0.053  | 7    | 0.51  | 0.045 | 0.08 | 0.3  | 2.5  | 0.05 | 0.07  | <5   | 3.2  | 0.10  | 2.7  |
| 12642   | Drill Core | 0.112 | 11.5 | 14.7 | 0.38 | 151.2 | 0.040  | 8    | 0.30  | 0.021 | 0.07 | 0.3  | 1.2  | 0.04 | 0.12  | <5   | 3.0  | 0.14  | 1.3  |
| 12643   | Drill Core | 0.082 | 8.4  | 10.5 | 0.50 | 142.7 | 0.033  | 7    | 0.32  | 0.028 | 0.08 | 0.2  | 1.1  | 0.03 | 0.14  | <5   | 2.1  | 0.15  | 1.3  |
| 12644   | Drill Core | 0.044 | 3.1  | 4.6  | 0.94 | 124.8 | 0.020  | 5    | 0.29  | 0.028 | 0.05 | 0.1  | 1.0  | 0.04 | 0.15  | <5   | 1.8  | 0.15  | 1.4  |
| 12645   | Drill Core | 0.074 | 10.5 | 22.9 | 0.65 | 229.8 | 0.079  | <1   | 1.10  | 0.057 | 0.15 | 0.3  | 6.7  | 0.20 | 0.45  | <5   | 2.5  | 0.12  | 4.8  |
| 12646   | Drill Core | 0.051 | 53.3 | 2.7  | 0.29 | 36.5  | 0.011  | <1   | 0.69  | 0.051 | 0.15 | <0.1 | 1.7  | 0.04 | 0.23  | <5   | 0.7  | <0.02 | 3.0  |
| 12647   | Drill Core | 0.037 | 29.5 | <0.5 | 0.16 | 30.9  | <0.001 | <1   | 0.53  | 0.042 | 0.19 | 0.2  | 0.7  | 0.04 | 0.38  | <5   | 0.5  | 0.05  | 1.5  |
| 12648   | Drill Core | 0.051 | 48.0 | 0.7  | 0.55 | 35.5  | 0.002  | <1   | 1.20  | 0.053 | 0.21 | <0.1 | 1.4  | 0.04 | 0.29  | 6    | 0.7  | <0.02 | 3.4  |
| 12649   | Drill Core | 0.097 | 12.3 | 23.0 | 0.77 | 146.6 | 0.091  | <1   | 1.03  | 0.037 | 0.17 | 0.4  | 5.5  | 0.11 | 0.08  | <5   | 0.9  | 0.08  | 3.4  |
| 12650   | Rock Pulp  | 0.049 | 4.2  | 24.2 | 0.45 | 28.5  | 0.036  | <1   | 0.90  | 0.047 | 0.13 | 0.8  | 2.6  | 0.57 | 5.76  | 752  | 20.8 | 0.06  | 3.3  |
| 13801   | Drill Core | 0.103 | 15.1 | 31.5 | 0.37 | 77.8  | 0.084  | 13   | 0.53  | 0.030 | 0.12 | 0.6  | 3.2  | 0.05 | <0.02 | <5   | 0.6  | 0.07  | 2.5  |

**QUALITY CONTROL REPORT**

**VAN08003272.1**

| Method                 | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|------------------------|------------|------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte                | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag    | Ni   | Co   | Mn   | Fe   | As    | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit                   | kg         | ppm  | ppm   | ppm   | ppm   | ppb   | ppm  | ppm  | ppm  | %    | ppm   | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | ppm  |       |
| MDL                    | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2     | 0.1  | 0.1  | 1    | 0.01 | 0.1   | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| Pulp Duplicates        |            |      |       |       |       |       |      |      |      |      |       |       |      |       |      |       |       |       |       |      |       |
| 12554                  | Drill Core | 4.90 | 4.30  | 6.81  | 1.08  | 10.1  | 30   | 5.6  | 2.4  | 1183 | 0.54  | 4.8   | 3.5  | 0.9   | 0.3  | 649.7 | 0.26  | 0.11  | <0.02 | 21   | 33.02 |
| REP 12554              | QC         |      | 4.33  | 6.75  | 1.35  | 11.0  | 40   | 4.7  | 1.9  | 1176 | 0.54  | 4.6   | 3.4  | 1.5   | 0.3  | 641.7 | 0.25  | 0.12  | <0.02 | 22   | 32.52 |
| 12578                  | Drill Core | 6.70 | 15.37 | 28.94 | 2.88  | 25.7  | 119  | 83.6 | 13.4 | 345  | 1.12  | 92.5  | 0.7  | 1.6   | 2.0  | 163.5 | 0.33  | 1.35  | 0.41  | 65   | 5.72  |
| REP 12578              | QC         |      | 15.87 | 29.38 | 3.06  | 26.3  | 146  | 87.0 | 13.2 | 344  | 1.12  | 95.7  | 0.8  | 1.8   | 2.2  | 159.3 | 0.31  | 1.41  | 0.41  | 67   | 5.92  |
| 12588                  | Drill Core | 4.70 | 3.50  | 4.44  | 1.37  | 10.4  | 71   | 3.7  | 1.3  | 1118 | 0.49  | 5.3   | 2.6  | 0.9   | 0.3  | 673.7 | 0.28  | 0.13  | 0.02  | 17   | 31.42 |
| REP 12588              | QC         |      | 3.49  | 4.48  | 1.31  | 10.3  | 76   | 4.5  | 1.4  | 1142 | 0.51  | 5.4   | 2.6  | 1.0   | 0.3  | 682.6 | 0.29  | 0.13  | <0.02 | 18   | 31.29 |
| 12609                  | Drill Core | 6.70 | 3.69  | 17.91 | 2.11  | 30.2  | 150  | 9.8  | 5.3  | 808  | 1.33  | 14.6  | 1.1  | 4.2   | 0.6  | 421.3 | 0.39  | 0.41  | 0.06  | 47   | 22.50 |
| REP 12609              | QC         |      | 3.76  | 17.97 | 2.24  | 30.6  | 228  | 10.3 | 5.3  | 815  | 1.33  | 14.5  | 1.1  | 3.4   | 0.6  | 418.7 | 0.41  | 0.43  | 0.06  | 47   | 22.53 |
| 12620                  | Rock       | 0.60 | 7.07  | 3.16  | 19.85 | 67.4  | 54   | 0.3  | 1.6  | 582  | 2.21  | 19.2  | 2.0  | 1.5   | 19.1 | 60.3  | 0.18  | 0.64  | 0.07  | 7    | 1.73  |
| REP 12620              | QC         |      | 7.03  | 3.06  | 19.77 | 65.6  | 48   | 0.2  | 1.5  | 594  | 2.16  | 18.9  | 2.0  | 2.0   | 19.1 | 60.8  | 0.17  | 0.63  | 0.07  | 7    | 1.70  |
| 12646                  | Drill Core | 4.90 | 4.60  | 7.00  | 12.91 | 43.3  | 93   | 1.8  | 2.3  | 541  | 2.26  | 12.5  | 2.3  | 0.7   | 23.6 | 177.7 | 0.11  | 0.38  | 0.03  | 10   | 2.82  |
| REP 12646              | QC         |      | 4.51  | 6.97  | 12.72 | 43.2  | 91   | 1.7  | 2.1  | 522  | 2.19  | 12.4  | 2.3  | 0.5   | 23.4 | 174.6 | 0.13  | 0.39  | 0.03  | 10   | 2.84  |
| Core Reject Duplicates |            |      |       |       |       |       |      |      |      |      |       |       |      |       |      |       |       |       |       |      |       |
| 12566                  | Drill Core | 6.50 | 13.27 | 54.87 | 10.70 | 119.4 | 288  | 61.8 | 16.7 | 1271 | 3.71  | 109.4 | 0.5  | 21.9  | 3.4  | 299.6 | 0.72  | 2.71  | 1.41  | 61   | 5.68  |
| DUP 12566              | QC         |      | 13.96 | 57.04 | 11.84 | 127.3 | 297  | 60.0 | 16.1 | 1369 | 3.82  | 104.6 | 0.6  | 21.1  | 3.5  | 312.4 | 0.73  | 3.00  | 1.49  | 62   | 5.78  |
| 12601                  | Drill Core | 1.60 | 1.82  | 45.04 | 10.91 | 64.7  | 405  | 14.4 | 24.9 | 1217 | 3.24  | 11.7  | 0.6  | 11.9  | 1.9  | 401.0 | 0.32  | 0.22  | 0.55  | 60   | 7.08  |
| DUP 12601              | QC         |      | 1.70  | 45.42 | 11.63 | 66.5  | 435  | 14.8 | 25.8 | 1221 | 3.34  | 12.1  | 0.6  | 11.1  | 1.8  | 411.9 | 0.35  | 0.24  | 0.60  | 59   | 6.90  |
| 12636                  | Drill Core | 7.00 | 3.24  | 33.74 | 9.57  | 35.0  | 248  | 13.5 | 4.9  | 587  | 1.27  | 47.1  | 3.0  | 14.6  | 1.7  | 721.6 | 0.46  | 1.13  | 0.27  | 59   | 26.82 |
| DUP 12636              | QC         |      | 2.90  | 27.67 | 7.25  | 31.9  | 211  | 13.9 | 4.1  | 585  | 1.19  | 42.2  | 2.7  | 7.1   | 1.6  | 777.9 | 0.37  | 1.01  | 0.22  | 55   | 27.40 |
| Reference Materials    |            |      |       |       |       |       |      |      |      |      |       |       |      |       |      |       |       |       |       |      |       |
| STD DS7                | Standard   |      | 21.50 | 107.4 | 72.22 | 427.7 | 886  | 58.2 | 9.8  | 660  | 2.53  | 54.0  | 5.6  | 70.1  | 4.9  | 77.3  | 7.30  | 6.60  | 5.00  | 90   | 1.04  |
| STD DS7                | Standard   |      | 21.70 | 104.6 | 75.12 | 428.7 | 917  | 57.7 | 9.3  | 665  | 2.51  | 54.2  | 5.0  | 135.2 | 4.7  | 77.3  | 6.91  | 6.42  | 4.72  | 90   | 1.02  |
| STD DS7                | Standard   |      | 20.54 | 107.6 | 70.82 | 395.9 | 833  | 55.8 | 9.5  | 631  | 2.39  | 55.3  | 5.1  | 71.7  | 4.6  | 72.3  | 7.40  | 6.64  | 4.98  | 85   | 0.93  |
| STD DS7                | Standard   |      | 21.42 | 110.1 | 70.77 | 422.0 | 918  | 57.8 | 9.5  | 649  | 2.57  | 56.8  | 5.6  | 65.9  | 5.2  | 86.6  | 7.77  | 6.94  | 5.21  | 96   | 1.10  |
| STD DS7                | Standard   |      | 21.12 | 107.1 | 80.54 | 422.4 | 899  | 59.0 | 10.2 | 636  | 2.43  | 56.5  | 5.7  | 77.1  | 5.1  | 76.5  | 7.03  | 6.83  | 5.44  | 83   | 0.95  |
| STD DS7 Expected       |            |      | 20.92 | 109   | 70.6  | 411   | 890  | 56   | 9.7  | 627  | 2.39  | 48.2  | 4.9  | 70    | 4.4  | 68.7  | 6.38  | 5.86  | 4.51  | 86   | 0.93  |
| BLK                    | Blank      |      | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1  | <0.1 | 1.4   | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                    | Blank      |      | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2  | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |

**QUALITY CONTROL REPORT**

**VAN08003272.1**

| Method                 |            | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|------------------------|------------|--------|------|-------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|
| Analyte                |            | P      | La   | Cr    | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |
| Unit                   |            | %      | ppm  | ppm   | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |
| MDL                    |            | 0.001  | 0.5  | 0.5   | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |
| Pulp Duplicates        |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| 12554                  | Drill Core | 0.055  | 2.4  | 9.8   | 1.04  | 63.1  | 0.022  | <1   | 0.37  | 0.004  | 0.07  | 0.2  | 1.4  | 0.03  | <0.02 | <5   | 0.5  | 0.33  | 1.4  |
| REP 12554              | QC         | 0.054  | 2.3  | 10.0  | 1.05  | 60.9  | 0.023  | <1   | 0.37  | 0.004  | 0.07  | 0.2  | 1.5  | 0.03  | <0.02 | <5   | 0.4  | 0.30  | 1.4  |
| 12578                  | Drill Core | 0.100  | 7.8  | 25.7  | 0.36  | 19.7  | 0.093  | 3    | 1.26  | 0.151  | 0.05  | 0.4  | 2.7  | 0.02  | 0.36  | <5   | 1.6  | 0.08  | 4.0  |
| REP 12578              | QC         | 0.100  | 8.1  | 25.1  | 0.37  | 19.2  | 0.096  | 2    | 1.25  | 0.159  | 0.06  | 0.4  | 2.7  | 0.03  | 0.36  | <5   | 1.5  | 0.06  | 4.1  |
| 12588                  | Drill Core | 0.053  | 2.2  | 9.3   | 1.11  | 46.9  | 0.021  | <1   | 0.42  | 0.009  | 0.06  | 0.1  | 1.4  | 0.04  | 0.04  | <5   | 0.4  | 0.03  | 1.4  |
| REP 12588              | QC         | 0.053  | 2.1  | 9.2   | 1.11  | 46.0  | 0.021  | <1   | 0.41  | 0.009  | 0.07  | <0.1 | 1.4  | 0.04  | 0.04  | <5   | 0.3  | 0.04  | 1.4  |
| 12609                  | Drill Core | 0.070  | 2.9  | 13.9  | 0.64  | 24.8  | 0.044  | <1   | 0.47  | 0.018  | 0.02  | 0.2  | 3.6  | <0.02 | 0.48  | <5   | 2.1  | 0.03  | 3.0  |
| REP 12609              | QC         | 0.068  | 3.0  | 14.2  | 0.64  | 25.4  | 0.045  | <1   | 0.47  | 0.016  | 0.02  | 0.2  | 3.8  | <0.02 | 0.48  | <5   | 2.2  | 0.03  | 2.9  |
| 12620                  | Rock       | 0.053  | 77.3 | 0.7   | 0.13  | 19.4  | 0.002  | <1   | 0.22  | 0.029  | 0.09  | <0.1 | 1.3  | 0.03  | 0.07  | <5   | <0.1 | <0.02 | 1.9  |
| REP 12620              | QC         | 0.054  | 80.1 | 0.6   | 0.14  | 19.5  | 0.002  | <1   | 0.22  | 0.029  | 0.09  | <0.1 | 1.3  | 0.03  | 0.06  | 10   | <0.1 | <0.02 | 1.8  |
| 12646                  | Drill Core | 0.051  | 53.3 | 2.7   | 0.29  | 36.5  | 0.011  | <1   | 0.69  | 0.051  | 0.15  | <0.1 | 1.7  | 0.04  | 0.23  | <5   | 0.7  | <0.02 | 3.0  |
| REP 12646              | QC         | 0.052  | 54.3 | 2.7   | 0.29  | 36.3  | 0.010  | <1   | 0.73  | 0.051  | 0.15  | <0.1 | 1.7  | 0.05  | 0.23  | <5   | 0.7  | 0.03  | 3.0  |
| Core Reject Duplicates |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| 12566                  | Drill Core | 0.100  | 18.1 | 41.2  | 1.24  | 19.9  | 0.004  | <1   | 2.12  | 0.005  | 0.10  | 0.1  | 10.7 | 0.05  | 0.59  | 12   | 0.9  | 0.09  | 4.9  |
| DUP 12566              | QC         | 0.101  | 18.3 | 40.0  | 1.34  | 20.3  | 0.004  | <1   | 2.24  | 0.005  | 0.11  | 0.2  | 11.2 | 0.06  | 0.63  | 9    | 1.0  | 0.13  | 5.1  |
| 12601                  | Drill Core | 0.094  | 8.6  | 13.6  | 1.52  | 86.9  | 0.001  | 1    | 1.91  | 0.022  | 0.26  | 0.1  | 7.8  | 0.07  | 1.36  | <5   | 3.3  | 0.03  | 6.5  |
| DUP 12601              | QC         | 0.097  | 8.3  | 13.2  | 1.53  | 90.1  | 0.001  | <1   | 1.96  | 0.023  | 0.26  | 0.1  | 7.8  | 0.08  | 1.47  | <5   | 3.5  | 0.04  | 6.6  |
| 12636                  | Drill Core | 0.101  | 10.3 | 14.5  | 0.44  | 138.3 | 0.069  | 20   | 1.19  | 0.143  | 0.11  | 0.8  | 3.4  | 0.07  | 0.21  | <5   | 3.5  | 0.17  | 3.5  |
| DUP 12636              | QC         | 0.088  | 9.5  | 13.6  | 0.43  | 133.7 | 0.065  | 17   | 1.14  | 0.133  | 0.09  | 0.8  | 3.3  | 0.07  | 0.20  | <5   | 2.8  | 0.17  | 3.2  |
| Reference Materials    |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| STD DS7                | Standard   | 0.084  | 14.3 | 197.7 | 1.09  | 407.9 | 0.120  | 40   | 1.07  | 0.098  | 0.52  | 4.0  | 3.0  | 4.31  | 0.23  | 222  | 3.9  | 1.17  | 4.8  |
| STD DS7                | Standard   | 0.095  | 13.2 | 210.8 | 1.09  | 421.5 | 0.119  | 50   | 1.06  | 0.104  | 0.51  | 4.3  | 3.0  | 4.42  | 0.21  | 203  | 3.9  | 1.14  | 5.3  |
| STD DS7                | Standard   | 0.083  | 12.9 | 189.5 | 1.02  | 383.1 | 0.114  | 42   | 0.94  | 0.088  | 0.46  | 3.8  | 2.6  | 4.23  | 0.21  | 202  | 3.5  | 1.19  | 4.7  |
| STD DS7                | Standard   | 0.084  | 16.6 | 191.5 | 1.13  | 419.5 | 0.131  | 42   | 1.14  | 0.105  | 0.52  | 4.2  | 3.1  | 4.51  | 0.21  | 192  | 4.0  | 1.17  | 5.1  |
| STD DS7                | Standard   | 0.084  | 14.3 | 211.5 | 1.07  | 415.6 | 0.124  | 42   | 1.01  | 0.097  | 0.45  | 4.1  | 2.7  | 4.50  | 0.20  | 226  | 3.6  | 1.06  | 4.8  |
| STD DS7 Expected       |            | 0.08   | 12.7 | 163   | 1.05  | 370.3 | 0.124  | 38.6 | 0.959 | 0.073  | 0.44  | 3.8  | 2.5  | 4.19  | 0.21  | 200  | 3.5  | 1.08  | 4.6  |
| BLK                    | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                    | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |



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Project: 41

Report Date: February 02, 2008

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN08003272.1

|           |            | WGHT  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|-----------|------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|------|-------|
|           |            | Wgt   | Mo    | Cu    | Pb    | Zn   | Ag   | Ni   | Co   | Mn   | Fe    | As   | U    | Au   | Th   | Sr   | Cd    | Sb    | Bi    | V    | Ca    |
|           |            | kg    | ppm   | ppm   | ppm   | ppm  | ppb  | ppm  | ppm  | ppm  | %     | ppm  | ppm  | ppb  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm  | %     |
|           |            | 0.01  | 0.01  | 0.01  | 0.01  | 0.1  | 2    | 0.1  | 0.1  | 1    | 0.01  | 0.1  | 0.1  | 0.2  | 0.1  | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01  |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| Prep Wash |            |       |       |       |       |      |      |      |      |      |       |      |      |      |      |      |       |       |       |      |       |
| G1        | Prep Blank | <0.01 | 0.42  | 1.98  | 3.41  | 51.0 | 8    | 4.3  | 4.3  | 591  | 1.93  | 0.4  | 2.9  | 0.2  | 4.5  | 66.0 | 0.03  | 0.06  | 0.08  | 39   | 0.56  |
| G1        | Prep Blank | <0.01 | 0.60  | 2.02  | 3.72  | 52.5 | 16   | 5.0  | 4.3  | 607  | 2.00  | 0.6  | 3.0  | 0.5  | 5.0  | 62.7 | 0.05  | 0.06  | 0.07  | 40   | 0.58  |

**QUALITY CONTROL REPORT**

**VAN08003272.1**

|           |            | 1F30   | 1F30 | 1F30 | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |      |  |
|-----------|------------|--------|------|------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|--|
|           |            | P      | La   | Cr   | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |  |
|           |            | %      | ppm  | ppm  | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |  |
|           |            | 0.001  | 0.5  | 0.5  | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| Prep Wash |            |        |      |      |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |  |
| G1        | Prep Blank | 0.078  | 8.2  | 11.0 | 0.63  | 253.8 | 0.126  | <1   | 1.03  | 0.058  | 0.55  | <0.1 | 2.1  | 0.40  | <0.02 | 6    | <0.1 | <0.02 | 5.1  |  |
| G1        | Prep Blank | 0.077  | 9.4  | 12.6 | 0.66  | 266.1 | 0.131  | <1   | 1.07  | 0.060  | 0.57  | <0.1 | 2.3  | 0.41  | <0.02 | <5   | 0.1  | <0.02 | 5.1  |  |



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Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

November 14, 2007

Report Date:

February 06, 2008

Page:

1 of 8

## CERTIFICATE OF ANALYSIS

VAN08003302.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number ddh1-6  
Number of Samples: 193

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

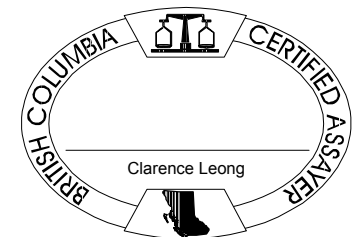
Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                                      | Test Wgt (g) | Report Status |
|-------------|-------------------|-------------------------------------------------------|--------------|---------------|
| R150        | 180               | Crush split and pulverize drill core to 150mesh       |              |               |
| 1F          | 188               | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 30           | Completed     |

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.





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Project: 41

Report Date: February 06, 2008

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V    | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm  | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01 |       |
| 12351   | Drill Core | 6.50 | 4.82  | 22.01 | 20.81 | 70.2   | 82      | 31.5  | 13.5 | 827  | 3.45 | 6.7   | 1.0  | 1.0   | 8.8  | 297.2 | 0.09  | 0.36  | 0.05 | 54   | 3.42  |
| 12352   | Drill Core | 2.30 | 5.76  | 4.68  | 3.96  | 14.8   | 296     | 6.1   | 2.2  | 1350 | 1.04 | 61.3  | 3.4  | 4.8   | 0.5  | 740.1 | 0.28  | 0.48  | 0.03 | 22   | 31.45 |
| 12353   | Drill Core | 1.60 | 7.49  | 7.29  | 6.87  | 11.9   | 1202    | 9.6   | 2.7  | 756  | 1.24 | 132.6 | 2.3  | 29.5  | 0.3  | 353.9 | 0.15  | 1.16  | 0.04 | 16   | 14.59 |
| 12354   | Drill Core | 3.50 | 7.80  | 7.06  | 2.47  | 15.6   | 110     | 7.4   | 2.0  | 1172 | 1.22 | 16.7  | 3.9  | 24.0  | 0.3  | 699.5 | 0.29  | 0.28  | 0.03 | 27   | 32.50 |
| 12355   | Drill Core | 3.80 | 6.77  | 11.50 | 3.17  | 28.7   | 196     | 12.5  | 4.3  | 934  | 1.20 | 19.1  | 4.5  | 10.2  | 0.4  | 605.7 | 0.47  | 0.40  | 0.03 | 38   | 31.98 |
| 12356   | Drill Core | 3.00 | 3.29  | 9.23  | 2.32  | 29.8   | 153     | 14.7  | 5.4  | 924  | 1.32 | 26.4  | 4.0  | 20.6  | 0.6  | 636.5 | 0.36  | 0.41  | 0.04 | 44   | 32.41 |
| 12357   | Drill Core | 4.00 | 1.65  | 4.40  | 6.01  | 15.1   | 298     | 7.3   | 2.5  | 1503 | 0.81 | 15.3  | 1.2  | 12.7  | 0.6  | 623.4 | 0.21  | 0.72  | 0.21 | 21   | 27.27 |
| 12358   | Drill Core | 5.00 | 1.90  | 10.46 | 19.97 | 63.7   | 102     | 2.6   | 5.5  | 531  | 2.59 | 3.2   | 2.0  | 1.4   | 10.7 | 87.4  | 0.11  | 0.16  | 0.15 | 27   | 1.67  |
| 12359   | Drill Core | 3.00 | 3.64  | 4.27  | 7.63  | 19.4   | 148     | 10.1  | 3.1  | 1249 | 0.99 | 41.9  | 3.9  | 1.5   | 0.7  | 870.2 | 0.27  | 0.38  | 0.23 | 25   | 32.75 |
| 12360   | Drill Core | 1.10 | 4.71  | 2.37  | 35.81 | 78.1   | 80      | 0.6   | 1.9  | 620  | 2.47 | 10.5  | 3.0  | 2.7   | 21.6 | 41.8  | 0.11  | 0.30  | 0.14 | 10   | 0.79  |
| 12361   | Drill Core | 4.50 | 6.74  | 5.02  | 39.70 | 76.2   | 128     | 1.7   | 2.5  | 278  | 2.66 | 5.4   | 2.8  | 2.3   | 18.8 | 107.5 | 0.12  | 0.50  | 0.28 | 5    | 0.58  |
| 12362   | Drill Core | 4.40 | 5.95  | 5.59  | 29.22 | 69.4   | 137     | 3.2   | 2.3  | 270  | 2.94 | 5.0   | 3.0  | 2.9   | 19.2 | 149.2 | 0.08  | 0.63  | 0.18 | 3    | 0.37  |
| 12363   | Drill Core | 2.50 | 4.98  | 4.69  | 32.77 | 68.6   | 95      | 3.3   | 3.3  | 693  | 2.76 | 6.5   | 2.8  | 1.9   | 16.3 | 160.8 | 0.11  | 0.46  | 0.10 | 5    | 1.76  |
| 12364   | Drill Core | 1.90 | 8.68  | 51.30 | 3.54  | 74.5   | 147     | 92.8  | 18.6 | 865  | 2.79 | 110.6 | 0.7  | 6.3   | 4.3  | 112.3 | 0.32  | 2.15  | 0.60 | 121  | 3.94  |
| 12365   | Drill Core | 3.80 | 12.20 | 43.73 | 2.90  | 75.0   | 64      | 103.6 | 17.1 | 1068 | 2.61 | 64.0  | 0.8  | 11.2  | 3.7  | 181.2 | 0.22  | 1.27  | 0.37 | 154  | 5.77  |
| 12366   | Drill Core | 4.00 | 12.86 | 70.33 | 2.76  | 80.5   | 77      | 83.6  | 18.2 | 1470 | 2.82 | 37.0  | 1.0  | 7.5   | 3.6  | 208.0 | 0.16  | 1.33  | 0.45 | 110  | 8.02  |
| 12367   | Drill Core | 4.20 | 15.09 | 71.10 | 2.94  | 52.5   | 81      | 69.8  | 17.4 | 609  | 1.70 | 61.0  | 0.9  | 5.5   | 2.1  | 242.0 | 0.19  | 1.21  | 0.44 | 82   | 6.49  |
| 12368   | Drill Core | 4.70 | 34.96 | 53.96 | 7.96  | 66.4   | 228     | 65.2  | 15.1 | 1389 | 2.87 | 59.8  | 1.3  | 6.8   | 3.4  | 475.2 | 0.29  | 1.69  | 0.85 | 115  | 9.79  |
| 12369   | Drill Core | 3.60 | 11.98 | 13.99 | 5.63  | 21.0   | 461     | 19.9  | 6.5  | 950  | 1.31 | 137.5 | 4.5  | 5.5   | 0.6  | 576.5 | 0.56  | 1.16  | 0.16 | 31   | 27.00 |
| 12370   | Rock Pulp  |      | 7.35  | 443.6 | 9252  | >10000 | >100000 | 24.7  | 12.4 | 1208 | 7.31 | 4240  | 1.8  | 175.0 | 1.3  | 71.2  | 158.8 | 95.06 | 0.16 | 32   | 1.35  |
| 12371   | Drill Core | 0.40 | 42.83 | 9.25  | 10.61 | 35.9   | 1049    | 42.7  | 12.0 | 1149 | 3.08 | 428.6 | 5.1  | 14.4  | 0.8  | 432.4 | 0.33  | 2.56  | 0.32 | 107  | 16.78 |
| 12372   | Drill Core | 2.70 | 6.68  | 6.91  | 7.04  | 23.4   | 835     | 23.5  | 7.7  | 1265 | 2.57 | 465.0 | 7.1  | 8.3   | 0.6  | 549.4 | 0.40  | 1.58  | 0.29 | 65   | 24.28 |
| 12373   | Drill Core | 4.00 | 2.85  | 51.14 | 8.90  | 160.6  | 884     | 22.7  | 24.2 | 862  | 4.38 | 248.9 | 0.4  | 9.3   | 1.1  | 331.7 | 0.86  | 2.62  | 0.78 | 136  | 5.38  |
| 12374   | Drill Core | 3.70 | 5.32  | 49.41 | 5.85  | 67.1   | 566     | 28.1  | 24.9 | 540  | 4.82 | 108.8 | 0.3  | 14.6  | 1.0  | 288.9 | 0.17  | 1.88  | 0.69 | 202  | 3.65  |
| 12375   | Drill Core | 4.50 | 0.86  | 61.98 | 3.64  | 58.5   | 179     | 18.1  | 31.3 | 478  | 5.26 | 45.3  | 0.2  | 6.6   | 1.2  | 334.8 | 0.08  | 1.00  | 0.67 | 206  | 3.75  |
| 12376   | Drill Core | 4.60 | 1.50  | 10.00 | 3.58  | 58.9   | 67      | 9.4   | 10.7 | 1619 | 2.75 | 15.9  | 0.5  | 2.7   | 0.7  | 234.1 | 0.14  | 0.69  | 0.43 | 88   | 7.56  |
| 12377   | Drill Core | 2.30 | 9.73  | 73.34 | 9.11  | 63.9   | 570     | 35.5  | 23.1 | 1634 | 4.07 | 99.1  | 1.3  | 6.9   | 1.1  | 356.0 | 0.17  | 1.96  | 0.88 | 135  | 6.76  |
| 12378   | Drill Core | 5.00 | 2.84  | 15.63 | 3.39  | 16.1   | 753     | 14.1  | 5.7  | 1057 | 1.28 | 114.3 | 4.0  | 6.0   | 0.5  | 578.7 | 0.27  | 0.84  | 0.15 | 40   | 29.89 |
| 12379   | Drill Core | 2.80 | 3.78  | 7.76  | 5.28  | 22.2   | 5102    | 16.1  | 5.6  | 666  | 2.13 | 217.6 | 5.0  | 29.8  | 0.9  | 334.5 | 0.08  | 0.94  | 0.23 | 60   | 16.39 |
| 12380   | Drill Core | 1.10 | 3.42  | 2.91  | 22.34 | 64.4   | 49      | 0.7   | 1.7  | 722  | 2.27 | 3.8   | 2.6  | 4.9   | 19.5 | 58.8  | 0.10  | 0.18  | 0.09 | 8    | 1.14  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 2 of 8 **Part** 2

**CERTIFICATE OF ANALYSIS**

**VAN08003302.1**

| Method  | 1F30       | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|-------|------|-------|--------|------|-------|-------|------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg    | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %     | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01  | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12351   | Drill Core | 0.175 | 53.6 | 63.4  | 1.40 | 106.9 | 0.013  | <1   | 2.42  | 0.007 | 0.16 | <0.1 | 8.0  | 0.04  | 0.09 | <5   | <0.1 | <0.02 | 6.6  |
| 12352   | Drill Core | 0.045 | 4.6  | 9.6   | 0.48 | 72.1  | 0.004  | <1   | 0.35  | 0.002 | 0.01 | 0.2  | 1.7  | <0.02 | 0.39 | <5   | 0.2  | 0.04  | 1.2  |
| 12353   | Drill Core | 0.030 | 2.7  | 12.8  | 0.36 | 31.7  | 0.004  | <1   | 0.32  | 0.002 | 0.01 | 0.2  | 1.7  | 0.03  | 0.73 | 12   | 0.5  | <0.02 | 0.9  |
| 12354   | Drill Core | 0.047 | 3.0  | 11.3  | 0.50 | 66.5  | 0.004  | <1   | 0.44  | 0.002 | 0.01 | 0.3  | 1.9  | <0.02 | 0.40 | <5   | 0.6  | 0.06  | 1.8  |
| 12355   | Drill Core | 0.050 | 3.9  | 18.7  | 0.79 | 23.9  | 0.004  | 1    | 0.64  | 0.002 | 0.02 | <0.1 | 2.7  | 0.02  | 0.44 | 7    | 0.7  | 0.04  | 2.2  |
| 12356   | Drill Core | 0.076 | 5.2  | 17.2  | 0.80 | 28.3  | 0.005  | 1    | 0.77  | 0.003 | 0.08 | 0.1  | 3.3  | 0.09  | 0.25 | 6    | 0.6  | 0.03  | 2.3  |
| 12357   | Drill Core | 0.039 | 6.1  | 11.4  | 0.60 | 46.3  | 0.004  | 6    | 0.53  | 0.002 | 0.04 | 0.5  | 2.4  | <0.02 | 0.04 | 7    | 0.3  | 0.04  | 2.0  |
| 12358   | Drill Core | 0.092 | 53.8 | 3.7   | 0.57 | 42.1  | 0.014  | <1   | 1.06  | 0.043 | 0.14 | 0.1  | 1.3  | 0.04  | 0.05 | <5   | <0.1 | <0.02 | 6.8  |
| 12359   | Drill Core | 0.062 | 5.5  | 18.7  | 0.71 | 91.6  | 0.025  | 12   | 0.54  | 0.003 | 0.08 | 0.7  | 3.0  | 0.05  | 0.09 | 6    | 0.2  | 0.04  | 2.1  |
| 12360   | Drill Core | 0.053 | 75.5 | 2.6   | 0.14 | 22.4  | 0.004  | <1   | 0.32  | 0.044 | 0.11 | <0.1 | 1.4  | <0.02 | 0.06 | 8    | <0.1 | <0.02 | 2.1  |
| 12361   | Drill Core | 0.055 | 62.5 | 1.3   | 0.77 | 34.9  | <0.001 | <1   | 1.51  | 0.021 | 0.15 | <0.1 | 1.1  | 0.05  | 0.17 | 7    | <0.1 | <0.02 | 3.8  |
| 12362   | Drill Core | 0.057 | 61.8 | 7.9   | 0.82 | 30.6  | <0.001 | <1   | 1.81  | 0.004 | 0.17 | <0.1 | 1.3  | 0.05  | 0.20 | 7    | <0.1 | <0.02 | 3.7  |
| 12363   | Drill Core | 0.058 | 58.9 | 4.6   | 0.59 | 33.6  | 0.001  | <1   | 1.46  | 0.017 | 0.15 | <0.1 | 1.5  | 0.05  | 0.18 | 7    | <0.1 | <0.02 | 4.0  |
| 12364   | Drill Core | 0.108 | 15.0 | 104.2 | 1.20 | 48.3  | 0.112  | 1    | 1.31  | 0.041 | 0.08 | 0.3  | 9.3  | 0.05  | 0.28 | 9    | 0.4  | <0.02 | 6.2  |
| 12365   | Drill Core | 0.115 | 12.0 | 105.3 | 1.32 | 72.1  | 0.108  | 2    | 2.00  | 0.177 | 0.06 | 0.3  | 10.2 | <0.02 | 0.11 | 21   | 0.2  | <0.02 | 8.1  |
| 12366   | Drill Core | 0.120 | 13.1 | 83.5  | 1.19 | 100.2 | 0.119  | 3    | 2.18  | 0.173 | 0.08 | 0.5  | 7.8  | 0.06  | 0.41 | <5   | 0.5  | <0.02 | 8.4  |
| 12367   | Drill Core | 0.112 | 8.3  | 43.7  | 0.70 | 120.0 | 0.117  | 3    | 2.59  | 0.308 | 0.06 | 0.5  | 4.4  | 0.03  | 0.40 | <5   | 0.9  | 0.03  | 7.5  |
| 12368   | Drill Core | 0.110 | 17.6 | 54.3  | 1.44 | 50.1  | 0.025  | 2    | 2.63  | 0.116 | 0.12 | 0.2  | 8.8  | 0.11  | 0.79 | 7    | 1.5  | 0.07  | 6.6  |
| 12369   | Drill Core | 0.063 | 5.5  | 11.9  | 0.42 | 22.6  | 0.002  | 1    | 0.46  | 0.003 | 0.06 | <0.1 | 2.5  | 0.08  | 0.89 | 5    | 1.6  | 0.14  | 1.4  |
| 12370   | Rock Pulp  | 0.049 | 4.4  | 26.2  | 0.44 | 32.9  | 0.041  | 3    | 0.87  | 0.049 | 0.13 | 0.9  | 2.8  | 0.61  | 5.77 | 753  | 19.7 | 0.07  | 3.4  |
| 12371   | Drill Core | 0.080 | 4.4  | 40.4  | 1.66 | 19.6  | 0.002  | 2    | 1.63  | 0.002 | 0.05 | 0.3  | 4.9  | 0.24  | 2.20 | 10   | 3.1  | 0.39  | 4.6  |
| 12372   | Drill Core | 0.073 | 4.3  | 26.7  | 1.48 | 22.9  | 0.002  | 2    | 1.27  | 0.001 | 0.04 | 0.3  | 3.9  | 0.07  | 2.02 | 9    | 3.4  | 0.42  | 3.3  |
| 12373   | Drill Core | 0.106 | 5.7  | 54.3  | 2.56 | 116.9 | 0.034  | 3    | 2.76  | 0.058 | 0.33 | 0.1  | 12.5 | 0.34  | 2.13 | 12   | 1.7  | 0.18  | 7.7  |
| 12374   | Drill Core | 0.087 | 6.1  | 68.6  | 3.11 | 109.0 | 0.033  | 2    | 2.81  | 0.095 | 0.23 | <0.1 | 15.0 | 0.27  | 1.87 | 8    | 2.3  | 0.06  | 9.2  |
| 12375   | Drill Core | 0.079 | 3.8  | 59.2  | 3.73 | 214.7 | 0.158  | 1    | 4.28  | 0.222 | 0.99 | <0.1 | 20.7 | 0.96  | 1.19 | 8    | 1.3  | <0.02 | 11.5 |
| 12376   | Drill Core | 0.115 | 2.3  | 26.2  | 1.67 | 74.0  | 0.086  | 3    | 1.84  | 0.053 | 0.26 | 1.6  | 10.5 | 0.20  | 0.20 | <5   | 0.3  | <0.02 | 5.4  |
| 12377   | Drill Core | 0.112 | 6.5  | 46.4  | 2.14 | 85.6  | 0.034  | 3    | 2.36  | 0.045 | 0.13 | 0.3  | 10.9 | 0.15  | 1.13 | <5   | 1.5  | 0.03  | 6.2  |
| 12378   | Drill Core | 0.091 | 4.1  | 16.5  | 0.92 | 26.5  | 0.016  | <1   | 0.61  | 0.004 | 0.04 | 0.3  | 3.0  | 0.10  | 0.77 | <5   | 1.3  | 0.39  | 2.0  |
| 12379   | Drill Core | 0.172 | 8.1  | 25.2  | 1.79 | 14.4  | 0.022  | 2    | 1.45  | 0.002 | 0.06 | 0.4  | 3.4  | 0.27  | 1.80 | <5   | 2.2  | 3.07  | 3.7  |
| 12380   | Drill Core | 0.053 | 68.2 | 2.3   | 0.15 | 20.0  | 0.003  | <1   | 0.35  | 0.036 | 0.11 | <0.1 | 1.3  | 0.02  | 0.04 | <5   | <0.1 | <0.02 | 2.2  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: February 06, 2008

Page: 3 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12381   | Drill Core | 5.80 | 1.09  | 9.72  | 2.58  | 14.5   | 256     | 8.8   | 4.1  | 674  | 1.12 | 51.6  | 2.7  | 2.8   | 0.4  | 528.1 | 0.17  | 0.41  | 0.08  | 51   | 29.14 |
| 12382   | Drill Core | 7.20 | 5.21  | 44.60 | 5.97  | 49.1   | 440     | 24.8  | 21.2 | 728  | 3.17 | 144.4 | 1.4  | 4.8   | 0.6  | 323.9 | 0.26  | 1.41  | 0.49  | 128  | 9.44  |
| 12383   | Drill Core | 6.60 | 3.79  | 39.38 | 7.25  | 74.3   | 314     | 19.7  | 19.3 | 1209 | 4.17 | 110.5 | 1.1  | 4.3   | 0.8  | 221.1 | 0.16  | 0.97  | 0.85  | 160  | 4.42  |
| 12384   | Drill Core | 5.20 | 2.35  | 7.13  | 2.73  | 18.2   | 64      | 8.1   | 3.0  | 634  | 0.63 | 18.5  | 3.1  | <0.2  | 0.4  | 696.1 | 0.19  | 0.26  | 0.24  | 30   | 30.70 |
| 12385   | Drill Core | 3.80 | 3.62  | 73.38 | 16.81 | 58.3   | 351     | 15.5  | 28.5 | 1546 | 4.18 | 62.9  | 1.2  | 4.5   | 1.0  | 604.8 | 0.20  | 1.03  | 1.47  | 93   | 13.48 |
| 12386   | Drill Core | 1.70 | 10.01 | 47.50 | 33.99 | 70.2   | 3908    | 27.2  | 24.4 | 862  | 3.54 | 38.5  | 2.1  | 28.0  | 7.2  | 415.9 | 0.24  | 0.78  | 0.78  | 79   | 6.90  |
| 12387   | Drill Core | 5.50 | 5.53  | 22.09 | 45.29 | 72.7   | 300     | 5.0   | 2.6  | 325  | 2.22 | 7.3   | 3.1  | 5.8   | 17.8 | 205.1 | 0.28  | 0.31  | 0.20  | 6    | 1.48  |
| 12388   | Drill Core | 1.20 | 8.17  | 35.86 | 17.22 | 45.3   | 265     | 10.7  | 7.8  | 699  | 1.85 | 22.9  | 1.6  | 3.6   | 3.6  | 207.0 | 0.21  | 0.36  | 0.34  | 30   | 3.70  |
| 12389   | Drill Core | 6.10 | 2.99  | 33.00 | 15.77 | 58.2   | 138     | 26.8  | 10.2 | 1186 | 3.04 | 7.5   | 1.5  | 1.0   | 10.1 | 377.9 | 0.16  | 0.18  | 0.11  | 66   | 6.30  |
| 12390   | Rock Pulp  |      | 6.72  | 429.3 | 8562  | >10000 | ·100000 | 22.8  | 11.0 | 1155 | 6.79 | 3775  | 1.8  | 190.2 | 1.2  | 67.2  | 150.4 | 85.31 | 0.15  | 30   | 1.28  |
| 12391   | Drill Core | 5.00 | 8.58  | 56.84 | 11.00 | 71.2   | 152     | 68.3  | 18.4 | 743  | 3.48 | 33.7  | 1.8  | 4.4   | 7.2  | 275.4 | 0.20  | 0.44  | 1.21  | 141  | 7.55  |
| 12392   | Drill Core | 7.30 | 13.88 | 63.62 | 11.58 | 111.8  | 218     | 89.5  | 18.0 | 915  | 2.50 | 197.2 | 1.3  | 22.7  | 2.5  | 230.6 | 0.82  | 1.04  | 8.52  | 119  | 8.39  |
| 12393   | Drill Core | 7.20 | 9.03  | 34.74 | 5.52  | 29.0   | 240     | 77.5  | 23.4 | 733  | 1.48 | 118.9 | 0.7  | 21.5  | 1.9  | 192.2 | 0.14  | 1.05  | 9.62  | 41   | 9.54  |
| 12394   | Drill Core | 7.40 | 17.68 | 37.25 | 3.52  | 45.4   | 119     | 102.1 | 27.2 | 1205 | 2.12 | 233.9 | 0.6  | 54.2  | 2.7  | 180.6 | 0.14  | 0.80  | 14.55 | 104  | 4.57  |
| 12395   | Drill Core | 4.50 | 17.52 | 73.45 | 4.07  | 42.9   | 159     | 102.3 | 20.5 | 596  | 3.48 | 116.1 | 0.5  | 5.8   | 2.3  | 149.8 | 0.25  | 1.24  | 1.85  | 81   | 4.98  |
| 12396   | Drill Core | 7.00 | 11.61 | 56.98 | 2.48  | 31.5   | 92      | 104.0 | 17.3 | 374  | 3.01 | 34.8  | 0.6  | 3.3   | 3.1  | 120.8 | 0.08  | 1.25  | 1.02  | 76   | 2.30  |
| 12397   | Drill Core | 6.40 | 13.32 | 69.81 | 3.51  | 43.9   | 159     | 109.7 | 19.5 | 672  | 3.43 | 71.4  | 0.6  | 5.7   | 2.6  | 166.9 | 0.11  | 1.89  | 1.07  | 85   | 4.11  |
| 12398   | Drill Core | 7.80 | 13.57 | 50.78 | 4.18  | 49.2   | 148     | 87.7  | 17.3 | 1103 | 3.47 | 158.6 | 1.2  | 5.8   | 2.5  | 290.8 | 0.17  | 2.48  | 1.15  | 94   | 8.39  |
| 12399   | Drill Core | 7.20 | 5.56  | 3.89  | 24.22 | 67.8   | 55      | 1.8   | 1.8  | 618  | 2.32 | 9.5   | 2.6  | 1.7   | 21.5 | 47.7  | 0.12  | 0.34  | 0.15  | 9    | 0.83  |
| 12400   | Drill Core | 1.00 | 35.72 | 51.33 | 4.21  | 51.5   | 162     | 100.3 | 19.2 | 505  | 3.76 | 95.1  | 0.8  | 3.0   | 3.3  | 265.8 | 0.19  | 2.33  | 0.34  | 96   | 5.45  |
| 12401   | Drill Core | 2.60 | 44.00 | 57.36 | 10.84 | 93.1   | 342     | 101.2 | 26.2 | 1050 | 4.47 | 1495  | 1.2  | 41.8  | 3.5  | 426.6 | 0.30  | 7.66  | 1.47  | 62   | 9.17  |
| 12402   | Drill Core | 0.50 | 31.35 | 16.24 | 7.51  | 20.6   | 104     | 31.0  | 7.0  | 2186 | 2.19 | 39.6  | 0.6  | 8.8   | 0.8  | 742.2 | 0.04  | 1.91  | 0.33  | 15   | 15.30 |
| 12403   | Drill Core | 2.40 | 54.06 | 43.46 | 13.15 | 94.5   | 337     | 75.4  | 19.3 | 1080 | 4.06 | 439.1 | 1.5  | 28.9  | 3.0  | 445.1 | 0.56  | 3.25  | 0.72  | 65   | 10.70 |
| 12404   | Drill Core | 2.70 | 25.99 | 45.44 | 7.46  | 70.4   | 161     | 103.6 | 19.7 | 850  | 3.98 | 140.3 | 1.1  | 8.2   | 2.9  | 284.2 | 0.20  | 4.75  | 0.47  | 124  | 8.83  |
| 12405   | Drill Core | 4.60 | 8.70  | 78.99 | 56.76 | 80.7   | 546     | 101.7 | 24.3 | 608  | 4.75 | 94.9  | 0.5  | 11.8  | 3.8  | 173.4 | 0.20  | 3.55  | 1.92  | 140  | 3.52  |
| 12406   | Drill Core | 7.10 | 8.26  | 36.78 | 3.72  | 29.6   | 141     | 56.7  | 12.9 | 518  | 2.75 | 90.0  | 0.5  | 5.4   | 2.4  | 146.6 | 0.16  | 1.64  | 1.13  | 59   | 4.98  |
| 12407   | Drill Core | 7.40 | 7.54  | 46.97 | 4.19  | 26.5   | 99      | 52.8  | 14.2 | 748  | 2.30 | 120.7 | 0.6  | 9.3   | 2.4  | 194.5 | 0.12  | 1.48  | 1.43  | 62   | 7.63  |
| 12408   | Drill Core | 5.30 | 3.25  | 28.71 | 3.32  | 33.6   | 59      | 49.8  | 10.4 | 1205 | 2.56 | 64.9  | 0.5  | 4.4   | 1.9  | 267.1 | 0.06  | 1.06  | 0.68  | 71   | 8.80  |
| 12409   | Drill Core | 2.90 | 5.74  | 13.25 | 6.22  | 50.5   | 66      | 38.7  | 5.4  | 2528 | 5.05 | 45.7  | 0.8  | 13.5  | 2.4  | 289.7 | 0.09  | 1.69  | 3.04  | 64   | 9.21  |
| 12410   | Rock Pulp  |      | 7.39  | 468.8 | 9569  | >10000 | ·100000 | 26.1  | 12.5 | 1287 | 7.94 | 4357  | 2.0  | 192.8 | 1.4  | 73.6  | 173.2 | 101.7 | 0.18  | 34   | 1.37  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 3 of 8 **Part** 2

**CERTIFICATE OF ANALYSIS**

**VAN08003302.1**

| Method  | 1F30       | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|-------|------|-------|--------|------|-------|-------|------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg    | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %     | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01  | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12381   | Drill Core | 0.071 | 2.9  | 19.4  | 0.81 | 22.1  | 0.033  | <1   | 0.51  | 0.009 | 0.02 | 0.4  | 3.3  | <0.02 | 0.60 | <5   | 1.5  | 0.10  | 2.1  |
| 12382   | Drill Core | 0.085 | 3.3  | 28.9  | 1.72 | 166.5 | 0.090  | 2    | 2.12  | 0.113 | 0.10 | 0.7  | 8.6  | 0.12  | 1.38 | <5   | 1.8  | 0.12  | 7.0  |
| 12383   | Drill Core | 0.091 | 3.8  | 30.6  | 2.34 | 154.2 | 0.128  | 2    | 2.61  | 0.090 | 0.27 | 0.5  | 9.9  | 0.16  | 0.84 | <5   | 1.0  | <0.02 | 8.7  |
| 12384   | Drill Core | 0.070 | 3.4  | 16.7  | 0.64 | 76.2  | 0.032  | 7    | 0.38  | 0.006 | 0.04 | 0.7  | 2.9  | 0.02  | 0.03 | <5   | 0.3  | 0.04  | 1.5  |
| 12385   | Drill Core | 0.073 | 10.1 | 11.9  | 1.62 | 157.8 | 0.004  | 2    | 2.39  | 0.005 | 0.23 | <0.1 | 11.8 | 0.18  | 0.87 | 10   | 2.4  | 0.06  | 6.2  |
| 12386   | Drill Core | 0.133 | 31.6 | 45.9  | 1.46 | 95.9  | 0.003  | 2    | 2.47  | 0.003 | 0.26 | <0.1 | 12.5 | 0.10  | 0.37 | <5   | 1.1  | 0.14  | 6.9  |
| 12387   | Drill Core | 0.056 | 50.1 | 5.6   | 0.71 | 16.7  | <0.001 | <1   | 1.53  | 0.002 | 0.16 | <0.1 | 1.3  | 0.04  | 0.19 | <5   | 0.1  | <0.02 | 3.1  |
| 12388   | Drill Core | 0.085 | 12.6 | 10.4  | 0.58 | 30.0  | 0.003  | <1   | 1.09  | 0.006 | 0.17 | <0.1 | 4.3  | 0.07  | 0.25 | <5   | 1.2  | <0.02 | 2.9  |
| 12389   | Drill Core | 0.198 | 54.1 | 64.4  | 1.44 | 28.7  | 0.003  | <1   | 2.26  | 0.003 | 0.09 | <0.1 | 8.2  | 0.02  | 0.10 | <5   | 0.5  | <0.02 | 5.0  |
| 12390   | Rock Pulp  | 0.043 | 4.1  | 23.6  | 0.40 | 29.0  | 0.034  | 2    | 0.78  | 0.043 | 0.11 | 0.9  | 2.3  | 0.57  | 5.37 | 778  | 19.8 | 0.05  | 3.2  |
| 12391   | Drill Core | 0.146 | 26.7 | 99.7  | 1.89 | 116.5 | 0.211  | 2    | 1.82  | 0.039 | 0.11 | 0.8  | 8.5  | <0.02 | 0.29 | <5   | 0.7  | <0.02 | 8.6  |
| 12392   | Drill Core | 0.113 | 10.0 | 81.2  | 1.20 | 22.0  | 0.132  | 1    | 1.41  | 0.052 | 0.04 | 0.8  | 6.7  | 0.04  | 0.36 | <5   | 0.9  | 0.08  | 7.3  |
| 12393   | Drill Core | 0.107 | 6.1  | 36.7  | 0.61 | 57.6  | 0.095  | 2    | 1.22  | 0.117 | 0.03 | 0.5  | 2.6  | 0.03  | 0.30 | <5   | 0.6  | 0.06  | 4.6  |
| 12394   | Drill Core | 0.103 | 7.2  | 77.7  | 1.05 | 31.4  | 0.122  | <1   | 1.16  | 0.049 | 0.06 | 0.5  | 6.7  | 0.02  | 0.28 | <5   | 0.6  | 0.05  | 5.7  |
| 12395   | Drill Core | 0.083 | 5.2  | 71.9  | 0.96 | 32.5  | 0.124  | 1    | 1.28  | 0.076 | 0.06 | 0.5  | 5.1  | 0.07  | 1.57 | <5   | 1.0  | 0.06  | 6.2  |
| 12396   | Drill Core | 0.092 | 10.3 | 68.3  | 1.09 | 30.8  | 0.161  | <1   | 1.26  | 0.088 | 0.28 | 0.4  | 5.3  | 0.23  | 1.18 | <5   | 0.9  | 0.02  | 5.7  |
| 12397   | Drill Core | 0.081 | 8.8  | 81.9  | 1.36 | 35.5  | 0.100  | 2    | 1.66  | 0.080 | 0.11 | 0.4  | 6.6  | 0.11  | 1.39 | <5   | 1.0  | 0.03  | 6.6  |
| 12398   | Drill Core | 0.095 | 10.6 | 81.5  | 2.00 | 28.8  | 0.075  | 1    | 1.73  | 0.067 | 0.06 | 0.3  | 8.6  | 0.11  | 1.20 | <5   | 0.8  | 0.05  | 6.6  |
| 12399   | Drill Core | 0.052 | 73.4 | 3.1   | 0.12 | 21.6  | 0.004  | <1   | 0.32  | 0.040 | 0.12 | <0.1 | 1.3  | 0.03  | 0.04 | <5   | <0.1 | <0.02 | 2.1  |
| 12400   | Drill Core | 0.103 | 12.4 | 86.1  | 1.30 | 31.9  | 0.097  | 1    | 1.70  | 0.088 | 0.15 | 0.4  | 7.6  | 0.21  | 1.46 | <5   | 1.1  | 0.02  | 6.2  |
| 12401   | Drill Core | 0.144 | 16.2 | 37.7  | 0.95 | 16.1  | 0.001  | 1    | 1.90  | 0.009 | 0.12 | 0.3  | 12.3 | 0.16  | 2.35 | 7    | 1.3  | 0.10  | 3.9  |
| 12402   | Drill Core | 0.019 | 11.7 | 6.1   | 0.67 | 17.7  | <0.001 | <1   | 1.36  | 0.009 | 0.16 | <0.1 | 3.4  | 0.12  | 0.52 | <5   | 0.5  | <0.02 | 2.9  |
| 12403   | Drill Core | 0.089 | 11.6 | 41.2  | 1.20 | 19.2  | 0.002  | <1   | 2.25  | 0.014 | 0.15 | 0.2  | 8.7  | 0.17  | 1.28 | 7    | 1.0  | 0.03  | 5.5  |
| 12404   | Drill Core | 0.115 | 12.7 | 80.3  | 1.54 | 31.7  | 0.038  | 2    | 1.75  | 0.036 | 0.09 | 0.3  | 9.0  | 0.09  | 1.55 | <5   | 1.2  | 0.03  | 6.9  |
| 12405   | Drill Core | 0.089 | 14.4 | 122.3 | 2.25 | 107.2 | 0.121  | 1    | 2.40  | 0.078 | 0.66 | 0.2  | 11.5 | 0.33  | 1.54 | <5   | 1.5  | 0.18  | 9.5  |
| 12406   | Drill Core | 0.084 | 8.7  | 58.1  | 1.04 | 34.1  | 0.111  | <1   | 0.89  | 0.084 | 0.05 | 0.3  | 5.8  | 0.11  | 1.05 | <5   | 0.8  | <0.02 | 4.1  |
| 12407   | Drill Core | 0.086 | 9.6  | 50.2  | 1.10 | 45.2  | 0.144  | <1   | 0.77  | 0.059 | 0.05 | 0.4  | 6.5  | 0.08  | 0.71 | <5   | 0.8  | <0.02 | 4.0  |
| 12408   | Drill Core | 0.081 | 7.5  | 49.9  | 1.18 | 28.8  | 0.113  | <1   | 1.03  | 0.051 | 0.05 | 0.3  | 7.9  | 0.02  | 0.39 | <5   | 0.5  | <0.02 | 4.5  |
| 12409   | Drill Core | 0.107 | 17.6 | 54.1  | 0.97 | 22.7  | 0.034  | 1    | 1.81  | 0.025 | 0.05 | 0.2  | 7.2  | 0.06  | 0.20 | 6    | 0.3  | 0.06  | 9.2  |
| 12410   | Rock Pulp  | 0.051 | 4.4  | 27.2  | 0.44 | 32.7  | 0.035  | 3    | 0.88  | 0.050 | 0.13 | 1.0  | 2.5  | 0.67  | 6.13 | 840  | 21.3 | 0.07  | 3.7  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: February 06, 2008

Page: 4 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|------|------|------|------|-------|------|-------|------|-------|-------|-------|------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co   | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V    | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm  | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm  | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1  | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01 |       |
| 12411   | Drill Core | 7.00 | 12.44 | 38.93 | 4.35  | 26.6   | 124     | 55.8 | 14.2 | 538  | 2.99 | 26.3  | 0.6  | 2.2   | 2.5  | 213.8 | 0.12  | 1.54  | 0.69 | 70   | 8.14  |
| 12412   | Drill Core | 7.50 | 6.25  | 34.27 | 4.89  | 28.4   | 104     | 50.2 | 12.9 | 518  | 2.36 | 25.8  | 0.7  | 7.5   | 1.9  | 211.1 | 0.31  | 1.60  | 0.65 | 37   | 11.48 |
| 12413   | Drill Core | 7.30 | 3.21  | 53.08 | 5.13  | 57.7   | 173     | 51.1 | 16.5 | 643  | 2.24 | 94.9  | 0.4  | 8.0   | 2.2  | 133.6 | 0.45  | 1.82  | 0.68 | 48   | 4.31  |
| 12414   | Drill Core | 6.80 | 7.49  | 32.84 | 5.96  | 59.8   | 172     | 54.0 | 17.4 | 721  | 2.94 | 178.9 | 0.8  | 6.8   | 2.6  | 189.0 | 0.18  | 2.55  | 0.52 | 67   | 8.13  |
| 12415   | Drill Core | 7.30 | 4.05  | 41.59 | 7.63  | 55.2   | 187     | 53.8 | 14.3 | 635  | 2.61 | 78.5  | 0.7  | 7.7   | 2.6  | 187.9 | 0.30  | 2.40  | 0.43 | 66   | 8.21  |
| 12416   | Drill Core | 7.40 | 2.60  | 56.51 | 27.58 | 107.3  | 374     | 66.1 | 18.0 | 961  | 4.05 | 54.1  | 0.4  | 5.1   | 3.3  | 178.0 | 0.56  | 1.94  | 0.45 | 106  | 2.32  |
| 12417   | Drill Core | 4.20 | 3.22  | 59.19 | 49.74 | 155.0  | 553     | 51.7 | 16.0 | 1163 | 4.13 | 138.7 | 0.5  | 25.2  | 2.6  | 162.3 | 1.36  | 0.90  | 0.84 | 96   | 2.17  |
| 12418   | Drill Core | 2.50 | 2.80  | 21.80 | 23.77 | 82.7   | 123     | 13.1 | 9.6  | 957  | 3.49 | 13.9  | 1.2  | 13.4  | 9.7  | 201.7 | 0.17  | 0.54  | 0.21 | 56   | 2.70  |
| 12419   | Drill Core | 1.80 | 2.31  | 64.15 | 29.92 | 97.4   | 268     | 10.4 | 13.3 | 780  | 3.82 | 109.7 | 0.2  | 11.2  | 1.6  | 286.2 | 0.70  | 0.67  | 0.14 | 89   | 1.81  |
| 12420   | Drill Core | 1.10 | 5.12  | 3.84  | 34.00 | 75.4   | 52      | 0.8  | 2.3  | 689  | 2.65 | 17.2  | 2.6  | 5.6   | 20.3 | 45.8  | 0.11  | 0.50  | 0.10 | 13   | 0.62  |
| 12421   | Drill Core | 3.00 | 2.25  | 69.30 | 30.33 | 170.6  | 363     | 10.0 | 11.7 | 371  | 3.37 | 56.0  | 0.5  | 11.0  | 2.8  | 289.7 | 1.58  | 0.51  | 0.14 | 53   | 0.52  |
| 12422   | Drill Core | 3.50 | 5.07  | 74.17 | 378.2 | 2107   | 1111    | 16.8 | 14.2 | 479  | 3.98 | 53.5  | 0.3  | 17.0  | 1.9  | 259.3 | 19.50 | 0.39  | 4.85 | 63   | 0.69  |
| 12423   | Drill Core | 3.70 | 2.40  | 19.41 | 28.43 | 81.7   | 92      | 6.0  | 8.1  | 1142 | 3.59 | 5.5   | 1.1  | 3.3   | 10.6 | 461.2 | 0.24  | 0.20  | 0.20 | 32   | 4.37  |
| 12424   | Drill Core | 3.80 | 2.13  | 38.42 | 31.50 | 93.1   | 387     | 9.4  | 16.8 | 782  | 3.58 | 40.9  | 0.3  | 14.9  | 1.6  | 278.4 | 0.38  | 0.35  | 2.35 | 66   | 2.76  |
| 12425   | Drill Core | 3.90 | 1.16  | 60.33 | 9.00  | 42.5   | 177     | 9.3  | 11.0 | 910  | 3.09 | 109.9 | 0.2  | 4.3   | 1.5  | 336.5 | 0.23  | 0.42  | 0.29 | 69   | 3.75  |
| 12426   | Drill Core | 5.10 | 2.92  | 37.76 | 7.51  | 48.7   | 177     | 11.4 | 12.3 | 484  | 3.70 | 30.2  | 0.2  | 7.1   | 1.3  | 268.7 | 0.15  | 0.46  | 8.02 | 54   | 1.90  |
| 12427   | Drill Core | 2.80 | 2.05  | 61.96 | 9.00  | 51.5   | 167     | 10.5 | 15.3 | 916  | 3.53 | 33.7  | 0.2  | 2.6   | 1.5  | 403.8 | 0.23  | 0.85  | 0.25 | 111  | 3.64  |
| 12428   | Drill Core | 4.30 | 1.17  | 33.74 | 10.35 | 41.9   | 87      | 7.8  | 9.9  | 570  | 2.55 | 19.5  | 0.3  | 3.3   | 1.5  | 295.8 | 0.23  | 0.31  | 0.14 | 46   | 2.77  |
| 12429   | Drill Core | 5.20 | 1.98  | 21.10 | 8.55  | 47.4   | 142     | 9.3  | 12.6 | 676  | 3.66 | 29.8  | 0.2  | 4.1   | 1.1  | 279.6 | 0.19  | 0.63  | 0.24 | 49   | 2.69  |
| 12430   | Rock Pulp  |      | 7.56  | 474.9 | 9668  | >10000 | >100000 | 26.2 | 12.3 | 1280 | 7.81 | 4296  | 1.9  | 184.1 | 1.3  | 72.3  | 172.0 | 99.47 | 0.16 | 34   | 1.42  |
| 12431   | Drill Core | 6.10 | 1.28  | 29.22 | 11.19 | 60.0   | 118     | 8.3  | 14.3 | 812  | 2.74 | 23.9  | 0.2  | 3.7   | 1.3  | 269.7 | 0.24  | 0.45  | 0.13 | 80   | 3.40  |
| 12432   | Drill Core | 4.50 | 1.08  | 3.66  | 5.26  | 50.1   | 43      | 9.4  | 12.5 | 671  | 3.08 | 9.9   | 0.2  | 1.6   | 1.1  | 182.8 | 0.14  | 0.29  | 0.08 | 87   | 2.37  |
| 12433   | Drill Core | 4.90 | 0.93  | 6.12  | 5.52  | 46.3   | 49      | 8.4  | 11.2 | 680  | 2.74 | 10.8  | 0.2  | 1.6   | 0.9  | 226.7 | 0.12  | 0.34  | 0.06 | 84   | 2.93  |
| 12434   | Drill Core | 4.20 | 0.97  | 2.05  | 4.10  | 68.3   | 26      | 7.6  | 11.1 | 634  | 2.77 | 7.0   | 0.2  | 1.0   | 0.9  | 183.8 | 0.12  | 1.47  | 0.05 | 89   | 2.54  |
| 12435   | Drill Core | 1.10 | 0.84  | 3.33  | 9.27  | 35.0   | 64      | 6.5  | 9.9  | 860  | 2.65 | 10.5  | 0.2  | 2.1   | 1.4  | 444.0 | 0.20  | 0.53  | 0.07 | 45   | 5.45  |
| 12436   | Drill Core | 4.30 | 0.51  | 3.80  | 4.73  | 57.4   | 45      | 8.2  | 11.6 | 825  | 3.34 | 10.2  | 0.2  | 1.7   | 1.2  | 147.0 | 0.13  | 0.22  | 0.08 | 91   | 2.44  |
| 12437   | Drill Core | 4.80 | 0.73  | 6.56  | 6.99  | 65.8   | 51      | 8.6  | 12.5 | 924  | 3.42 | 17.8  | 0.3  | 2.5   | 1.1  | 162.3 | 0.11  | 0.27  | 0.13 | 89   | 2.62  |
| 12438   | Drill Core | 4.20 | 0.84  | 7.03  | 4.42  | 53.9   | 42      | 8.0  | 12.5 | 794  | 3.33 | 21.5  | 0.2  | 1.6   | 1.1  | 235.3 | 0.12  | 0.22  | 0.07 | 100  | 2.65  |
| 12439   | Drill Core | 4.70 | 1.80  | 20.97 | 9.22  | 66.7   | 147     | 24.8 | 15.8 | 1019 | 3.55 | 31.5  | 0.3  | 5.1   | 2.1  | 286.7 | 0.17  | 0.17  | 0.96 | 82   | 3.07  |
| 12440   | Drill Core | 1.40 | 4.84  | 2.40  | 21.97 | 70.4   | 31      | 0.6  | 1.9  | 621  | 2.32 | 7.6   | 2.6  | 1.4   | 18.1 | 51.1  | 0.11  | 0.22  | 0.03 | 11   | 0.88  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 4 of 8 **Part** 2

**CERTIFICATE OF ANALYSIS**

**VAN08003302.1**

| Method  | 1F30       | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|-------|------|-------|--------|------|-------|-------|------|------|------|------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg    | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S    | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %     | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %    | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01  | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02 | 5    | 0.1  | 0.02 | 0.1   |      |
| 12411   | Drill Core | 0.090 | 11.2 | 57.7  | 0.85 | 52.7  | 0.085  | <1   | 1.04  | 0.086 | 0.14 | 0.5  | 6.1  | 0.15 | 1.20 | <5   | 1.0  | 0.05  | 5.7  |
| 12412   | Drill Core | 0.087 | 7.3  | 33.1  | 0.62 | 91.2  | 0.103  | <1   | 0.55  | 0.056 | 0.06 | 0.4  | 3.8  | 0.12 | 1.21 | <5   | 0.9  | 0.07  | 3.8  |
| 12413   | Drill Core | 0.095 | 7.1  | 44.8  | 0.82 | 62.9  | 0.109  | 2    | 0.86  | 0.067 | 0.11 | 0.3  | 5.2  | 0.15 | 0.88 | <5   | 0.6  | 0.05  | 4.1  |
| 12414   | Drill Core | 0.096 | 10.6 | 66.3  | 1.27 | 46.6  | 0.083  | 1    | 1.26  | 0.032 | 0.10 | 0.3  | 7.0  | 0.11 | 1.37 | <5   | 0.6  | 0.04  | 6.1  |
| 12415   | Drill Core | 0.087 | 11.3 | 75.6  | 1.07 | 55.0  | 0.095  | <1   | 1.09  | 0.041 | 0.14 | 0.2  | 7.1  | 0.12 | 1.11 | <5   | 0.5  | 0.05  | 5.1  |
| 12416   | Drill Core | 0.081 | 11.4 | 114.9 | 1.99 | 188.1 | 0.086  | <1   | 1.97  | 0.072 | 0.49 | <0.1 | 10.6 | 0.18 | 1.33 | <5   | 0.6  | 0.05  | 8.5  |
| 12417   | Drill Core | 0.078 | 10.1 | 113.1 | 1.91 | 122.6 | 0.048  | <1   | 1.81  | 0.040 | 0.26 | <0.1 | 8.8  | 0.10 | 1.24 | 8    | 0.6  | 0.08  | 9.2  |
| 12418   | Drill Core | 0.143 | 45.2 | 22.6  | 1.03 | 83.4  | 0.028  | <1   | 1.45  | 0.055 | 0.23 | <0.1 | 3.2  | 0.07 | 0.25 | <5   | 0.2  | 0.03  | 8.7  |
| 12419   | Drill Core | 0.092 | 8.9  | 28.5  | 1.49 | 76.6  | 0.005  | <1   | 2.27  | 0.036 | 0.23 | <0.1 | 8.3  | 0.06 | 0.59 | <5   | 0.7  | 0.04  | 8.4  |
| 12420   | Drill Core | 0.060 | 84.0 | 2.4   | 0.18 | 23.3  | 0.007  | <1   | 0.42  | 0.055 | 0.14 | 0.1  | 1.1  | 0.03 | 0.09 | 6    | 0.1  | <0.02 | 3.2  |
| 12421   | Drill Core | 0.096 | 16.5 | 16.9  | 1.72 | 36.7  | <0.001 | <1   | 2.40  | 0.015 | 0.16 | <0.1 | 9.1  | 0.04 | 0.44 | 10   | 0.6  | 0.02  | 5.5  |
| 12422   | Drill Core | 0.093 | 12.6 | 26.7  | 1.68 | 45.4  | 0.002  | <1   | 2.56  | 0.016 | 0.18 | <0.1 | 10.1 | 0.04 | 0.53 | 69   | 1.3  | 0.36  | 6.0  |
| 12423   | Drill Core | 0.162 | 55.8 | 4.0   | 1.19 | 44.7  | <0.001 | <1   | 2.25  | 0.023 | 0.16 | <0.1 | 2.3  | 0.04 | 0.16 | <5   | 0.3  | 0.03  | 5.1  |
| 12424   | Drill Core | 0.096 | 9.6  | 13.5  | 1.02 | 28.1  | <0.001 | <1   | 2.18  | 0.008 | 0.14 | <0.1 | 11.2 | 0.03 | 0.39 | <5   | 0.7  | 0.24  | 4.6  |
| 12425   | Drill Core | 0.093 | 9.9  | 18.5  | 0.93 | 35.2  | <0.001 | <1   | 2.12  | 0.013 | 0.16 | <0.1 | 10.6 | 0.03 | 0.42 | <5   | 0.6  | 0.08  | 4.5  |
| 12426   | Drill Core | 0.089 | 7.3  | 13.9  | 1.36 | 30.0  | <0.001 | <1   | 2.22  | 0.008 | 0.15 | <0.1 | 9.6  | 0.04 | 0.47 | <5   | 0.6  | 1.75  | 4.3  |
| 12427   | Drill Core | 0.092 | 9.8  | 38.9  | 1.43 | 53.7  | 0.005  | <1   | 2.17  | 0.052 | 0.14 | <0.1 | 10.6 | 0.05 | 0.75 | 5    | 0.8  | 0.04  | 8.9  |
| 12428   | Drill Core | 0.091 | 9.1  | 11.9  | 1.09 | 27.7  | <0.001 | <1   | 1.74  | 0.008 | 0.14 | <0.1 | 9.4  | 0.04 | 0.24 | 5    | 0.4  | 0.02  | 3.0  |
| 12429   | Drill Core | 0.087 | 6.1  | 11.2  | 1.06 | 31.6  | <0.001 | <1   | 1.89  | 0.008 | 0.16 | <0.1 | 7.5  | 0.04 | 0.68 | <5   | 0.5  | 0.04  | 3.2  |
| 12430   | Rock Pulp  | 0.049 | 4.5  | 27.0  | 0.42 | 32.8  | 0.035  | 2    | 0.85  | 0.046 | 0.12 | 0.9  | 2.5  | 0.63 | 6.03 | 792  | 22.5 | 0.07  | 3.7  |
| 12431   | Drill Core | 0.084 | 9.0  | 27.0  | 1.22 | 50.5  | 0.003  | <1   | 1.73  | 0.035 | 0.15 | <0.1 | 9.2  | 0.04 | 0.31 | 6    | 0.4  | 0.03  | 6.2  |
| 12432   | Drill Core | 0.089 | 6.4  | 31.2  | 1.14 | 103.4 | 0.061  | <1   | 2.21  | 0.149 | 0.36 | <0.1 | 9.9  | 0.14 | 0.08 | 7    | <0.1 | 0.04  | 7.9  |
| 12433   | Drill Core | 0.084 | 5.0  | 30.8  | 1.08 | 121.3 | 0.065  | 1    | 2.63  | 0.266 | 0.34 | <0.1 | 9.2  | 0.11 | 0.06 | <5   | 0.1  | 0.04  | 8.3  |
| 12434   | Drill Core | 0.085 | 4.9  | 31.6  | 1.09 | 105.0 | 0.068  | 2    | 2.59  | 0.280 | 0.35 | <0.1 | 8.1  | 0.14 | 0.05 | <5   | 0.1  | 0.03  | 8.6  |
| 12435   | Drill Core | 0.082 | 10.6 | 12.7  | 1.14 | 84.5  | 0.004  | <1   | 1.05  | 0.009 | 0.21 | <0.1 | 12.2 | 0.07 | 0.17 | 8    | 0.2  | 0.04  | 2.8  |
| 12436   | Drill Core | 0.085 | 7.8  | 29.9  | 1.31 | 105.3 | 0.044  | <1   | 1.94  | 0.097 | 0.35 | <0.1 | 8.8  | 0.13 | 0.12 | 5    | <0.1 | 0.05  | 7.4  |
| 12437   | Drill Core | 0.084 | 6.9  | 29.8  | 1.29 | 89.4  | 0.044  | <1   | 1.93  | 0.066 | 0.39 | <0.1 | 8.5  | 0.14 | 0.20 | <5   | 0.2  | 0.07  | 7.6  |
| 12438   | Drill Core | 0.083 | 7.1  | 32.3  | 1.31 | 129.8 | 0.070  | <1   | 2.52  | 0.204 | 0.56 | <0.1 | 10.1 | 0.20 | 0.07 | <5   | 0.1  | 0.02  | 8.6  |
| 12439   | Drill Core | 0.086 | 11.9 | 42.4  | 1.39 | 123.7 | 0.029  | <1   | 2.14  | 0.035 | 0.36 | <0.1 | 9.4  | 0.11 | 0.20 | <5   | 0.5  | 0.20  | 7.8  |
| 12440   | Drill Core | 0.056 | 77.9 | 2.0   | 0.18 | 29.9  | 0.007  | <1   | 0.30  | 0.040 | 0.12 | <0.1 | 1.4  | 0.02 | 0.06 | <5   | 0.1  | <0.02 | 2.6  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 5 of 8 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08003302.1**

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12441   | Drill Core | 4.30 | 0.76  | 9.28  | 11.00 | 59.0   | 99      | 6.4   | 10.1 | 1141 | 2.80 | 11.8  | 0.3  | 4.4   | 1.4  | 339.0 | 0.71  | 0.34  | 0.12  | 57   | 3.79  |
| 12442   | Drill Core | 4.70 | 0.96  | 19.66 | 6.67  | 57.2   | 74      | 6.4   | 10.8 | 1312 | 3.08 | 5.6   | 0.3  | 2.3   | 1.2  | 239.5 | 0.14  | 0.26  | 0.06  | 83   | 2.60  |
| 12443   | Drill Core | 2.90 | 0.95  | 8.28  | 5.29  | 58.1   | 71      | 6.2   | 11.1 | 1221 | 3.12 | 10.6  | 0.3  | 3.0   | 1.1  | 164.1 | 0.08  | 0.30  | 0.09  | 87   | 2.02  |
| 12444   | Drill Core | 4.80 | 0.75  | 6.25  | 5.26  | 55.1   | 65      | 5.1   | 8.7  | 1052 | 2.78 | 11.0  | 0.3  | 3.1   | 1.1  | 181.0 | 0.07  | 0.26  | 0.10  | 62   | 2.31  |
| 12445   | Drill Core | 1.20 | 2.81  | 31.31 | 17.11 | 73.1   | 94      | 43.2  | 19.6 | 754  | 4.06 | 8.9   | 1.1  | 1.0   | 13.3 | 407.5 | 0.10  | 0.48  | 0.05  | 54   | 5.65  |
| 12446   | Drill Core | 0.50 | 4.33  | 15.98 | 16.87 | 41.6   | 54      | 20.0  | 9.2  | 1067 | 2.86 | 11.7  | 0.5  | 0.5   | 5.2  | 489.1 | 0.08  | 0.81  | <0.02 | 14   | 8.56  |
| 12447   | Drill Core | 1.20 | 2.69  | 29.39 | 15.60 | 78.1   | 94      | 56.0  | 23.6 | 768  | 4.22 | 14.3  | 1.4  | 1.5   | 13.1 | 430.5 | 0.08  | 0.52  | 0.06  | 55   | 5.45  |
| 12448   | Drill Core | 4.20 | 13.93 | 33.22 | 4.86  | 50.3   | 157     | 77.1  | 12.8 | 886  | 3.19 | 65.2  | 2.4  | 8.0   | 3.2  | 179.2 | 0.06  | 0.90  | 0.91  | 123  | 6.93  |
| 12449   | Drill Core | 5.20 | 18.48 | 64.55 | 9.14  | 130.9  | 988     | 118.3 | 25.8 | 1495 | 4.20 | 153.2 | 1.3  | 27.1  | 3.6  | 182.3 | 0.89  | 1.43  | 3.61  | 146  | 5.93  |
| 12450   | Rock Pulp  |      | 6.88  | 433.5 | 8935  | >10000 | ·100000 | 24.0  | 11.5 | 1204 | 7.22 | 4086  | 1.9  | 157.7 | 1.2  | 67.4  | 160.5 | 87.02 | 0.14  | 31   | 1.31  |
| 12451   | Drill Core | 4.50 | 20.28 | 30.25 | 10.59 | 34.7   | 2189    | 100.7 | 35.1 | 1003 | 2.14 | 185.3 | 0.9  | 42.2  | 3.0  | 113.3 | 0.16  | 2.18  | 19.52 | 76   | 4.67  |
| 12452   | Drill Core | 1.00 | 7.71  | 12.72 | 40.53 | 54.0   | 7281    | 60.5  | 19.3 | 1885 | 2.85 | 131.2 | 1.0  | 40.7  | 2.8  | 234.0 | 0.35  | 1.52  | 30.03 | 81   | 9.26  |
| 12453   | Drill Core | 2.30 | 9.37  | 34.94 | 6.47  | 67.1   | 501     | 76.0  | 25.4 | 1159 | 2.26 | 163.3 | 0.7  | 29.3  | 2.4  | 204.8 | 0.39  | 1.61  | 10.61 | 71   | 6.05  |
| 12454   | Drill Core | 4.90 | 13.90 | 55.05 | 5.23  | 101.2  | 142     | 73.3  | 15.4 | 983  | 2.71 | 94.5  | 1.2  | 9.3   | 2.1  | 292.9 | 0.68  | 1.13  | 2.78  | 117  | 13.43 |
| 12455   | Drill Core | 4.60 | 25.11 | 40.35 | 4.80  | 143.2  | 209     | 72.2  | 14.7 | 692  | 2.61 | 98.9  | 1.5  | 7.3   | 2.4  | 306.0 | 1.30  | 1.51  | 0.68  | 120  | 16.94 |
| 12456   | Drill Core | 5.10 | 12.12 | 54.10 | 3.34  | 45.5   | 108     | 76.6  | 15.8 | 545  | 1.93 | 255.0 | 0.9  | 13.6  | 2.3  | 195.7 | 0.34  | 0.91  | 5.22  | 72   | 9.93  |
| 12457   | Drill Core | 6.40 | 15.21 | 68.69 | 3.67  | 41.7   | 132     | 90.5  | 19.8 | 547  | 1.98 | 165.9 | 1.2  | 11.1  | 2.4  | 209.6 | 0.45  | 1.00  | 2.48  | 97   | 7.67  |
| 12458   | Drill Core | 5.00 | 11.78 | 37.44 | 8.25  | 131.0  | 243     | 86.6  | 16.6 | 495  | 2.61 | 65.3  | 2.6  | 4.3   | 2.5  | 328.7 | 2.06  | 2.39  | 0.19  | 203  | 14.89 |
| 12459   | Drill Core | 4.80 | 4.88  | 14.17 | 4.49  | 22.4   | 113     | 18.4  | 6.0  | 508  | 1.10 | 22.5  | 1.3  | 2.2   | 0.4  | 469.4 | 0.45  | 0.49  | 0.08  | 41   | 25.43 |
| 12460   | Drill Core | 1.30 | 8.06  | 3.10  | 22.19 | 65.2   | 57      | 0.5   | 1.7  | 615  | 2.26 | 13.6  | 2.6  | 19.9  | 20.2 | 32.2  | 0.12  | 0.33  | 0.18  | 8    | 0.62  |
| 12461   | Drill Core | 4.80 | 3.14  | 20.89 | 4.37  | 27.5   | 114     | 25.6  | 7.9  | 510  | 1.26 | 6.3   | 0.9  | 1.2   | 0.9  | 381.5 | 0.24  | 0.36  | 0.03  | 41   | 22.01 |
| 12462   | Drill Core | 3.00 | 2.64  | 17.57 | 2.43  | 17.1   | 78      | 21.6  | 5.6  | 388  | 0.74 | 7.5   | 1.0  | 0.7   | 0.7  | 408.7 | 0.19  | 0.33  | <0.02 | 30   | 25.06 |
| 12463   | Drill Core | 7.00 | 3.93  | 9.24  | 2.24  | 17.5   | 43      | 12.7  | 3.7  | 431  | 0.74 | 5.5   | 1.9  | 1.2   | 0.5  | 577.1 | 0.19  | 0.21  | <0.02 | 31   | 29.95 |
| 12464   | Drill Core | 4.80 | 6.91  | 6.68  | 1.57  | 11.2   | 47      | 6.7   | 2.7  | 525  | 0.79 | 8.2   | 2.0  | 1.1   | 0.3  | 652.3 | 0.17  | 0.21  | <0.02 | 27   | 34.10 |
| 12465   | Drill Core | 4.30 | 6.43  | 4.56  | 1.56  | 11.9   | 39      | 7.6   | 2.6  | 641  | 0.80 | 10.5  | 3.7  | 1.1   | 0.3  | 613.1 | 0.18  | 0.20  | <0.02 | 31   | 31.36 |
| 12466   | Drill Core | 4.40 | 6.97  | 3.94  | 3.52  | 10.7   | 428     | 6.1   | 2.2  | 1083 | 0.74 | 14.7  | 3.6  | 2.5   | 0.3  | 705.0 | 0.24  | 0.41  | <0.02 | 27   | 32.89 |
| 12467   | Drill Core | 3.00 | 4.86  | 3.05  | 2.15  | 12.4   | 53      | 6.0   | 1.8  | 1113 | 0.64 | 5.2   | 3.5  | 1.3   | 0.3  | 738.7 | 0.21  | 0.17  | <0.02 | 28   | 32.32 |
| 12468   | Drill Core | 2.10 | 5.15  | 4.17  | 1.63  | 10.7   | 88      | 5.6   | 2.0  | 1137 | 0.63 | 7.5   | 3.5  | 1.3   | 0.3  | 727.1 | 0.22  | 0.20  | <0.02 | 25   | 31.57 |
| 12469   | Drill Core | 2.40 | 4.21  | 5.73  | 2.84  | 10.2   | 402     | 5.8   | 2.1  | 1223 | 0.78 | 28.2  | 3.5  | 4.9   | 0.3  | 735.8 | 0.25  | 0.40  | <0.02 | 29   | 34.56 |
| 12470   | Rock Pulp  |      | 7.21  | 461.1 | 9003  | >10000 | ·100000 | 25.8  | 11.9 | 1201 | 7.29 | 4177  | 1.9  | 166.4 | 1.3  | 69.2  | 157.2 | 90.00 | 0.13  | 32   | 1.28  |

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Project: 41

Report Date: February 06, 2008

Page: 5 of 8 Part 2

# CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|-------|------|-------|--------|------|-------|-------|------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg    | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %     | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01  | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12441   | Drill Core | 0.084 | 9.3  | 15.2  | 1.03 | 109.9 | 0.008  | <1   | 1.58  | 0.008 | 0.24 | <0.1 | 8.3  | 0.06  | 0.33 | <5   | 0.2  | 0.03  | 5.3  |
| 12442   | Drill Core | 0.088 | 8.5  | 21.6  | 1.25 | 188.0 | 0.016  | <1   | 1.40  | 0.038 | 0.19 | <0.1 | 9.2  | 0.04  | 0.27 | <5   | 0.2  | 0.02  | 7.2  |
| 12443   | Drill Core | 0.084 | 7.7  | 23.4  | 1.29 | 296.4 | 0.038  | <1   | 1.63  | 0.051 | 0.33 | <0.1 | 9.5  | 0.08  | 0.32 | <5   | 0.2  | 0.04  | 7.4  |
| 12444   | Drill Core | 0.075 | 6.7  | 15.4  | 0.98 | 108.6 | 0.016  | <1   | 1.36  | 0.035 | 0.24 | <0.1 | 7.0  | 0.08  | 0.32 | <5   | 0.2  | 0.03  | 5.2  |
| 12445   | Drill Core | 0.254 | 70.0 | 72.9  | 0.91 | 32.2  | 0.006  | <1   | 1.64  | 0.009 | 0.15 | <0.1 | 12.3 | 0.04  | 0.13 | <5   | 0.2  | 0.03  | 5.3  |
| 12446   | Drill Core | 0.117 | 32.1 | 12.0  | 1.63 | 16.8  | <0.001 | <1   | 0.33  | 0.004 | 0.11 | <0.1 | 3.9  | 0.03  | 0.09 | <5   | 0.2  | 0.04  | 0.9  |
| 12447   | Drill Core | 0.245 | 65.0 | 77.3  | 1.07 | 107.7 | 0.020  | <1   | 1.79  | 0.016 | 0.20 | <0.1 | 9.8  | 0.07  | 0.18 | <5   | 0.2  | <0.02 | 7.2  |
| 12448   | Drill Core | 0.076 | 13.3 | 96.6  | 1.67 | 35.2  | 0.084  | 2    | 1.99  | 0.065 | 0.10 | 0.7  | 9.3  | 0.06  | 0.32 | <5   | 0.7  | 0.04  | 9.5  |
| 12449   | Drill Core | 0.110 | 11.4 | 107.2 | 1.75 | 23.7  | 0.157  | 5    | 2.08  | 0.044 | 0.09 | 1.9  | 10.0 | 0.05  | 0.65 | <5   | 1.5  | 0.22  | 10.1 |
| 12450   | Rock Pulp  | 0.046 | 4.2  | 24.5  | 0.43 | 30.3  | 0.036  | 3    | 0.86  | 0.050 | 0.13 | 0.9  | 2.6  | 0.58  | 4.74 | 744  | 20.6 | 0.06  | 3.3  |
| 12451   | Drill Core | 0.129 | 8.7  | 59.9  | 0.93 | 24.4  | 0.139  | 4    | 1.26  | 0.072 | 0.07 | 1.6  | 4.8  | 0.03  | 0.34 | <5   | 1.0  | 0.24  | 5.9  |
| 12452   | Drill Core | 0.087 | 9.6  | 62.8  | 1.24 | 11.7  | 0.120  | 3    | 1.45  | 0.027 | 0.04 | 2.4  | 6.7  | 0.03  | 0.27 | <5   | 1.3  | 1.60  | 8.7  |
| 12453   | Drill Core | 0.115 | 7.4  | 54.6  | 1.10 | 21.8  | 0.119  | 3    | 1.35  | 0.089 | 0.05 | 1.0  | 5.0  | 0.04  | 0.30 | <5   | 0.6  | 0.15  | 6.7  |
| 12454   | Drill Core | 0.108 | 8.6  | 71.8  | 1.11 | 26.9  | 0.132  | 1    | 1.50  | 0.109 | 0.06 | 0.5  | 7.7  | 0.05  | 0.47 | <5   | 1.0  | 0.07  | 7.0  |
| 12455   | Drill Core | 0.104 | 9.5  | 80.1  | 1.16 | 15.0  | 0.110  | 1    | 1.53  | 0.112 | 0.04 | 0.6  | 8.0  | 0.09  | 0.87 | <5   | 1.0  | 0.03  | 6.7  |
| 12456   | Drill Core | 0.111 | 8.1  | 37.8  | 0.54 | 15.7  | 0.120  | 2    | 1.28  | 0.151 | 0.06 | 0.7  | 3.2  | 0.04  | 0.68 | <5   | 1.3  | 0.05  | 5.0  |
| 12457   | Drill Core | 0.113 | 8.0  | 40.9  | 0.64 | 22.5  | 0.142  | 2    | 1.35  | 0.165 | 0.07 | 0.5  | 4.1  | 0.04  | 0.71 | <5   | 1.7  | 0.06  | 5.1  |
| 12458   | Drill Core | 0.120 | 13.5 | 79.8  | 1.11 | 19.7  | 0.139  | 2    | 1.36  | 0.048 | 0.07 | 0.5  | 8.6  | 0.10  | 0.80 | 7    | 3.1  | 0.04  | 6.3  |
| 12459   | Drill Core | 0.045 | 3.2  | 30.7  | 0.39 | 11.6  | 0.031  | <1   | 0.40  | 0.009 | 0.04 | 0.1  | 4.0  | 0.03  | 0.37 | <5   | 1.2  | 0.03  | 2.0  |
| 12460   | Drill Core | 0.052 | 77.6 | 2.2   | 0.07 | 22.6  | 0.003  | <1   | 0.27  | 0.047 | 0.12 | <0.1 | 1.3  | 0.02  | 0.08 | <5   | <0.1 | <0.02 | 2.2  |
| 12461   | Drill Core | 0.049 | 3.9  | 34.8  | 0.61 | 32.6  | 0.040  | 1    | 0.62  | 0.017 | 0.10 | 0.1  | 4.0  | 0.10  | 0.27 | <5   | 1.4  | 0.02  | 2.6  |
| 12462   | Drill Core | 0.051 | 2.9  | 21.8  | 0.46 | 32.6  | 0.042  | <1   | 0.40  | 0.014 | 0.06 | 0.2  | 2.2  | 0.03  | 0.15 | <5   | 1.0  | 0.04  | 1.5  |
| 12463   | Drill Core | 0.078 | 3.1  | 17.4  | 0.56 | 17.3  | 0.023  | <1   | 0.39  | 0.011 | 0.03 | <0.1 | 2.4  | <0.02 | 0.17 | <5   | 0.5  | 0.04  | 1.7  |
| 12464   | Drill Core | 0.051 | 2.7  | 13.3  | 0.53 | 21.9  | 0.024  | <1   | 0.32  | 0.007 | 0.02 | 0.2  | 2.2  | <0.02 | 0.22 | <5   | 0.5  | 0.04  | 1.4  |
| 12465   | Drill Core | 0.075 | 2.8  | 14.1  | 0.80 | 17.7  | 0.020  | <1   | 0.42  | 0.005 | 0.03 | 0.1  | 2.3  | 0.03  | 0.19 | <5   | 0.4  | 0.04  | 1.9  |
| 12466   | Drill Core | 0.051 | 2.8  | 12.9  | 1.14 | 24.9  | 0.012  | <1   | 0.46  | 0.006 | 0.03 | 0.2  | 2.2  | <0.02 | 0.26 | 7    | 0.5  | 0.05  | 1.6  |
| 12467   | Drill Core | 0.051 | 2.9  | 12.2  | 1.30 | 38.8  | 0.018  | <1   | 0.45  | 0.010 | 0.04 | 0.2  | 2.0  | <0.02 | 0.11 | <5   | 0.4  | 0.05  | 1.9  |
| 12468   | Drill Core | 0.050 | 2.8  | 11.9  | 1.06 | 36.0  | 0.015  | <1   | 0.42  | 0.007 | 0.04 | <0.1 | 2.0  | <0.02 | 0.16 | <5   | 0.3  | 0.08  | 1.5  |
| 12469   | Drill Core | 0.051 | 2.9  | 13.4  | 1.16 | 26.1  | 0.005  | <1   | 0.47  | 0.004 | 0.02 | 0.2  | 2.3  | <0.02 | 0.39 | 10   | 0.5  | 0.05  | 1.8  |
| 12470   | Rock Pulp  | 0.047 | 4.2  | 25.7  | 0.39 | 32.0  | 0.037  | 2    | 0.81  | 0.047 | 0.13 | 0.9  | 2.6  | 0.57  | 4.52 | 735  | 21.3 | 0.03  | 3.4  |





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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 6 of 8 **Part** 1

**CERTIFICATE OF ANALYSIS**

**VAN08003302.1**

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co   | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm  | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1  | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12471   | Drill Core | 2.60 | 4.29  | 3.48  | 4.91  | 13.7   | 349     | 6.2  | 2.2  | 1043 | 0.66 | 18.8  | 3.6  | 3.1   | 0.3  | 672.3 | 0.25  | 0.38  | <0.02 | 28   | 31.75 |
| 12472   | Drill Core | 2.30 | 5.34  | 3.93  | 28.60 | 30.9   | 945     | 8.6  | 3.2  | 1152 | 1.06 | 81.3  | 3.8  | 12.7  | 0.4  | 684.5 | 0.38  | 0.81  | <0.02 | 37   | 31.60 |
| 12473   | Drill Core | 2.40 | 4.33  | 5.99  | 30.59 | 26.9   | 5519    | 7.4  | 2.3  | 1144 | 1.07 | 114.0 | 3.3  | 8.8   | 0.3  | 652.8 | 0.36  | 1.45  | <0.02 | 31   | 29.07 |
| 12474   | Drill Core | 2.20 | 4.46  | 2.35  | 17.39 | 19.8   | 1150    | 7.4  | 2.5  | 1189 | 0.83 | 30.9  | 4.0  | 9.1   | 0.3  | 751.2 | 0.28  | 0.88  | <0.02 | 29   | 31.77 |
| 12475   | Drill Core | 2.10 | 4.88  | 39.47 | 76.26 | 68.5   | 35934   | 7.2  | 2.5  | 1216 | 1.00 | 65.6  | 3.5  | 86.2  | 0.4  | 649.1 | 0.78  | 6.09  | <0.02 | 30   | 29.62 |
| 12476   | Drill Core | 2.20 | 6.07  | 142.3 | 194.1 | 321.3  | 96021   | 7.7  | 2.5  | 279  | 0.98 | 91.1  | 1.8  | 285.7 | 0.2  | 117.1 | 2.63  | 18.17 | <0.02 | 19   | 2.83  |
| 12477   | Drill Core | 2.20 | 10.01 | 22.44 | 20.14 | 46.8   | 6585    | 18.4 | 12.0 | 1074 | 2.07 | 179.2 | 2.4  | 77.3  | 0.6  | 498.6 | 0.42  | 2.67  | 0.03  | 42   | 19.25 |
| 12478   | Drill Core | 2.70 | 4.37  | 25.21 | 21.99 | 30.7   | 4141    | 26.9 | 15.8 | 795  | 2.52 | 240.0 | 1.6  | 39.8  | 0.8  | 421.0 | 0.28  | 3.23  | 0.19  | 38   | 15.23 |
| 12479   | Drill Core | 2.40 | 2.41  | 6.04  | 21.46 | 48.7   | 1240    | 10.1 | 3.6  | 717  | 1.02 | 94.8  | 2.9  | 10.5  | 0.4  | 354.0 | 0.37  | 0.71  | 0.02  | 28   | 12.81 |
| 12480   | Drill Core | 1.20 | 5.14  | 3.45  | 20.76 | 67.4   | 130     | 0.6  | 1.5  | 648  | 2.29 | 9.9   | 2.8  | 1.2   | 19.9 | 36.4  | 0.12  | 0.25  | 0.09  | 6    | 0.93  |
| 12481   | Drill Core | 2.20 | 2.09  | 9.61  | 9.44  | 21.9   | 792     | 8.5  | 3.0  | 939  | 0.82 | 46.1  | 2.5  | 8.0   | 0.4  | 530.6 | 0.31  | 0.55  | <0.02 | 25   | 20.09 |
| 12482   | Drill Core | 2.30 | 3.11  | 12.21 | 16.56 | 40.9   | 796     | 10.2 | 4.2  | 1269 | 1.31 | 55.9  | 2.3  | 10.1  | 0.5  | 609.9 | 0.40  | 0.75  | <0.02 | 42   | 26.09 |
| 12483   | Drill Core | 2.30 | 2.68  | 15.84 | 13.42 | 48.7   | 279     | 12.1 | 4.4  | 1048 | 1.00 | 55.6  | 3.5  | 4.5   | 0.6  | 681.0 | 0.49  | 0.68  | <0.02 | 31   | 28.06 |
| 12484   | Drill Core | 1.80 | 3.52  | 15.82 | 10.60 | 40.3   | 225     | 10.0 | 3.9  | 1066 | 1.06 | 45.0  | 3.0  | 4.4   | 0.4  | 611.3 | 0.43  | 0.82  | 0.02  | 31   | 27.28 |
| 12485   | Drill Core | 5.00 | 3.11  | 50.05 | 16.09 | 60.4   | 297     | 14.2 | 8.7  | 1128 | 2.05 | 19.8  | 1.2  | 4.3   | 1.2  | 407.7 | 0.38  | 0.87  | 0.06  | 48   | 17.63 |
| 12486   | Drill Core | 3.70 | 2.56  | 27.04 | 11.28 | 68.0   | 297     | 15.4 | 21.0 | 1372 | 3.62 | 10.4  | 0.6  | 4.3   | 1.2  | 223.6 | 0.24  | 0.81  | 0.22  | 99   | 4.78  |
| 12487   | Drill Core | 5.50 | 1.58  | 105.6 | 29.34 | 98.8   | 401     | 9.1  | 12.7 | 865  | 2.18 | 5.7   | 0.4  | 6.5   | 1.2  | 174.1 | 1.22  | 0.83  | 0.23  | 64   | 3.53  |
| 12488   | Drill Core | 6.60 | 1.95  | 16.72 | 9.01  | 35.7   | 115     | 13.2 | 10.2 | 1042 | 1.51 | 5.5   | 0.6  | 1.6   | 0.8  | 219.0 | 0.26  | 1.33  | 0.14  | 72   | 6.59  |
| 12489   | Drill Core | 5.50 | 5.17  | 41.51 | 23.55 | 147.7  | 380     | 19.4 | 12.6 | 2003 | 3.21 | 60.0  | 0.7  | 15.7  | 1.1  | 184.5 | 1.15  | 0.91  | 0.27  | 115  | 6.42  |
| 12490   | Rock Pulp  |      | 7.43  | 486.5 | 9076  | >10000 | >100000 | 27.1 | 12.5 | 1215 | 7.44 | 4216  | 1.8  | 154.9 | 1.2  | 59.3  | 142.2 | 69.27 | 0.12  | 33   | 1.35  |
| 12491   | Drill Core | 4.00 | 3.12  | 68.59 | 15.91 | 64.3   | 572     | 7.8  | 9.6  | 1540 | 1.98 | 217.4 | 0.5  | 16.9  | 0.5  | 159.1 | 0.33  | 0.78  | 0.26  | 72   | 5.69  |
| 12492   | Drill Core | 5.00 | 3.39  | 29.94 | 14.79 | 42.5   | 188     | 4.5  | 6.1  | 787  | 1.12 | 10.0  | 0.3  | 5.7   | 0.6  | 92.3  | 0.39  | 1.15  | 0.13  | 27   | 3.33  |
| 12493   | Drill Core | 6.20 | 1.52  | 32.62 | 11.82 | 33.9   | 187     | 5.6  | 21.5 | 505  | 1.47 | 5.2   | 0.2  | 4.2   | 0.7  | 89.1  | 0.20  | 0.75  | 0.18  | 33   | 1.85  |
| 12494   | Drill Core | 5.80 | 1.05  | 10.52 | 5.47  | 56.6   | 115     | 6.6  | 14.9 | 594  | 2.83 | 5.2   | 0.2  | 4.8   | 1.4  | 177.4 | 0.13  | 0.36  | 0.14  | 54   | 2.89  |
| 12495   | Drill Core | 6.10 | 1.23  | 74.23 | 23.13 | 77.4   | 422     | 7.5  | 12.2 | 948  | 2.23 | 8.0   | 0.3  | 7.3   | 0.9  | 235.5 | 0.38  | 0.40  | 0.35  | 56   | 4.30  |
| 12496   | Drill Core | 7.80 | 0.79  | 17.10 | 7.73  | 44.9   | 130     | 5.7  | 14.1 | 652  | 2.02 | 7.2   | 0.2  | 5.3   | 1.1  | 152.1 | 0.12  | 0.52  | 0.12  | 47   | 2.48  |
| 12497   | Drill Core | 7.10 | 0.68  | 7.60  | 6.66  | 96.8   | 148     | 7.5  | 13.3 | 490  | 4.26 | 22.5  | 0.1  | 4.3   | 2.0  | 131.3 | 0.16  | 0.41  | 0.05  | 76   | 1.77  |
| 12498   | Drill Core | 4.50 | 0.77  | 10.96 | 11.25 | 95.4   | 103     | 9.2  | 26.3 | 698  | 3.41 | 7.1   | 0.2  | 2.5   | 1.3  | 168.1 | 0.21  | 0.75  | 0.13  | 72   | 2.11  |
| 12499   | Drill Core | 4.40 | 4.17  | 71.20 | 15.38 | 56.7   | 338     | 5.7  | 11.9 | 1486 | 2.09 | 37.0  | 0.8  | 3.0   | 3.0  | 259.6 | 0.25  | 1.37  | 0.23  | 39   | 5.54  |
| 12500   | Drill Core | 1.00 | 4.63  | 4.13  | 33.52 | 94.9   | 78      | 0.5  | 1.8  | 688  | 2.34 | 3.2   | 2.6  | 1.9   | 20.1 | 41.6  | 0.25  | 0.34  | 0.08  | 7    | 0.79  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: February 06, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|--------|------|-------|-------|-------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B      | Al   | Na    | K     | W     | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm    | %    | %     | %     | ppm   | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1   | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12471   | Drill Core | 0.051 | 2.9  | 13.7 | 1.02 | 72.3  | 0.006  | <1   | 0.45  | 0.004 | 0.02  | 0.3  | 2.2  | <0.02 | 0.30 | 5    | 0.4  | 0.05  | 1.8  |
| 12472   | Drill Core | 0.059 | 3.5  | 18.2 | 1.49 | 112.0 | 0.006  | <1   | 0.62  | 0.006 | 0.02  | 0.3  | 3.1  | <0.02 | 0.57 | 10   | 0.8  | 0.10  | 2.2  |
| 12473   | Drill Core | 0.047 | 3.0  | 15.0 | 1.30 | 161.3 | 0.003  | <1   | 0.47  | 0.005 | <0.01 | 0.3  | 2.7  | <0.02 | 0.79 | 11   | 0.9  | 0.04  | 1.6  |
| 12474   | Drill Core | 0.067 | 3.0  | 13.9 | 1.30 | 31.4  | 0.003  | <1   | 0.51  | 0.004 | <0.01 | 0.3  | 2.6  | <0.02 | 0.54 | 12   | 0.4  | 0.07  | 1.9  |
| 12475   | Drill Core | 0.050 | 3.1  | 16.6 | 1.43 | 35.7  | 0.003  | <1   | 0.57  | 0.006 | 0.01  | 3.1  | 3.1  | <0.02 | 0.75 | 26   | 1.7  | 0.10  | 2.1  |
| 12476   | Drill Core | 0.060 | 1.4  | 16.5 | 0.80 | 14.0  | <0.001 | <1   | 0.38  | 0.005 | 0.02  | 4.2  | 1.9  | 0.02  | 0.81 | 92   | 3.4  | 0.34  | 1.5  |
| 12477   | Drill Core | 0.084 | 5.4  | 15.1 | 1.23 | 124.9 | 0.002  | 3    | 0.75  | 0.007 | 0.16  | 1.0  | 5.1  | 0.07  | 1.71 | 62   | 1.8  | 0.05  | 2.5  |
| 12478   | Drill Core | 0.106 | 4.6  | 13.0 | 1.19 | 94.9  | 0.001  | 3    | 1.05  | 0.010 | 0.27  | 0.4  | 5.4  | 0.11  | 2.12 | 47   | 1.9  | 0.03  | 2.4  |
| 12479   | Drill Core | 0.064 | 2.5  | 18.5 | 0.83 | 67.4  | 0.002  | 2    | 0.62  | 0.004 | 0.02  | 1.0  | 3.0  | <0.02 | 0.58 | 11   | 0.7  | 0.27  | 2.0  |
| 12480   | Drill Core | 0.050 | 63.0 | 1.9  | 0.19 | 25.5  | 0.008  | <1   | 0.29  | 0.044 | 0.14  | <0.1 | 1.3  | 0.03  | 0.07 | 7    | 0.1  | <0.02 | 2.0  |
| 12481   | Drill Core | 0.049 | 2.9  | 12.1 | 0.48 | 27.6  | 0.002  | 1    | 0.49  | 0.005 | 0.03  | 0.4  | 2.5  | <0.02 | 0.42 | 8    | 0.5  | 0.45  | 1.7  |
| 12482   | Drill Core | 0.059 | 3.6  | 16.2 | 0.94 | 36.5  | 0.003  | 2    | 1.55  | 0.005 | 0.05  | 0.2  | 3.7  | <0.02 | 0.42 | 16   | 0.7  | 0.45  | 2.8  |
| 12483   | Drill Core | 0.065 | 3.8  | 14.4 | 0.80 | 92.8  | 0.002  | 3    | 0.59  | 0.005 | 0.06  | 0.2  | 3.2  | 0.03  | 0.34 | 19   | 0.5  | 0.46  | 1.5  |
| 12484   | Drill Core | 0.071 | 3.7  | 12.9 | 0.95 | 83.1  | 0.002  | 2    | 0.57  | 0.005 | 0.04  | 0.2  | 3.4  | 0.03  | 0.37 | 14   | 0.5  | 0.55  | 1.4  |
| 12485   | Drill Core | 0.065 | 5.2  | 19.1 | 1.31 | 95.9  | 0.007  | 4    | 2.02  | 0.015 | 0.17  | 0.1  | 6.0  | 0.07  | 0.55 | 17   | 1.7  | 0.32  | 3.9  |
| 12486   | Drill Core | 0.081 | 4.3  | 19.8 | 1.54 | 133.9 | 0.048  | 3    | 1.79  | 0.051 | 0.13  | 0.2  | 9.3  | 0.07  | 0.70 | 16   | 2.4  | 0.09  | 7.0  |
| 12487   | Drill Core | 0.073 | 2.9  | 11.5 | 1.07 | 105.9 | 0.117  | 2    | 1.08  | 0.060 | 0.11  | 1.6  | 6.2  | 0.06  | 0.49 | 16   | 1.9  | 0.07  | 4.6  |
| 12488   | Drill Core | 0.078 | 2.8  | 19.9 | 0.81 | 108.2 | 0.127  | 2    | 0.87  | 0.060 | 0.08  | 0.7  | 5.3  | 0.02  | 0.20 | <5   | 1.0  | 0.07  | 3.0  |
| 12489   | Drill Core | 0.077 | 4.2  | 31.3 | 1.08 | 74.7  | 0.057  | 2    | 1.27  | 0.027 | 0.08  | 0.7  | 7.4  | 0.04  | 0.57 | 33   | 1.5  | 0.15  | 5.0  |
| 12490   | Rock Pulp  | 0.046 | 3.2  | 26.2 | 0.42 | 25.7  | 0.034  | 4    | 0.90  | 0.045 | 0.13  | 0.9  | 2.4  | 0.56  | 5.81 | 746  | 22.9 | 0.08  | 3.6  |
| 12491   | Drill Core | 0.089 | 2.7  | 13.4 | 0.92 | 63.6  | 0.041  | 2    | 1.18  | 0.048 | 0.10  | 2.7  | 6.1  | 0.05  | 0.23 | 13   | 0.7  | 0.18  | 3.9  |
| 12492   | Drill Core | 0.102 | 1.6  | 6.5  | 0.53 | 38.5  | 0.081  | 1    | 0.55  | 0.036 | 0.06  | 11.1 | 2.9  | <0.02 | 0.13 | <5   | 0.4  | 0.11  | 2.4  |
| 12493   | Drill Core | 0.109 | 2.1  | 8.2  | 0.70 | 49.6  | 0.101  | <1   | 0.61  | 0.073 | 0.06  | 0.4  | 3.2  | 0.03  | 0.71 | 8    | 1.2  | 0.06  | 2.7  |
| 12494   | Drill Core | 0.099 | 4.9  | 13.3 | 1.55 | 196.3 | 0.075  | <1   | 1.40  | 0.040 | 0.19  | 0.2  | 8.0  | 0.08  | 0.45 | 7    | 0.8  | 0.06  | 6.2  |
| 12495   | Drill Core | 0.118 | 2.8  | 14.1 | 1.40 | 78.2  | 0.084  | 1    | 1.13  | 0.038 | 0.09  | 1.8  | 9.0  | 0.03  | 0.42 | 14   | 0.6  | 0.19  | 4.8  |
| 12496   | Drill Core | 0.113 | 2.6  | 11.3 | 1.26 | 96.1  | 0.123  | <1   | 1.06  | 0.060 | 0.09  | 0.4  | 7.4  | 0.03  | 0.51 | 19   | 0.9  | 0.08  | 4.9  |
| 12497   | Drill Core | 0.098 | 3.1  | 18.3 | 2.30 | 205.4 | 0.132  | 1    | 2.07  | 0.061 | 0.16  | 0.3  | 10.3 | 0.07  | 0.52 | 13   | 0.9  | 0.05  | 10.1 |
| 12498   | Drill Core | 0.118 | 3.5  | 19.1 | 2.05 | 163.3 | 0.161  | 2    | 1.91  | 0.080 | 0.10  | 0.6  | 11.1 | 0.04  | 0.50 | 17   | 0.7  | 0.04  | 8.4  |
| 12499   | Drill Core | 0.066 | 14.9 | 11.4 | 0.74 | 23.1  | 0.075  | <1   | 0.93  | 0.022 | 0.06  | 3.0  | 5.6  | 0.04  | 0.30 | 23   | 1.0  | 0.12  | 5.0  |
| 12500   | Drill Core | 0.049 | 59.2 | 1.5  | 0.09 | 23.4  | 0.004  | <1   | 0.34  | 0.027 | 0.10  | <0.1 | 1.2  | 0.02  | 0.03 | 35   | 0.3  | 0.04  | 2.4  |



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Project: 41  
 Report Date: February 06, 2008

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CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | WGHT       | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30    | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   |
|---------|------------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte | Wgt        | Mo     | Cu     | Pb     | Zn     | Ag     | Ni      | Co     | Mn     | Fe     | As     | U      | Au     | Th     | Sr     | Cd     | Sb     | Bi     | V      | Ca     |        |
| Unit    | kg         | ppm    | ppm    | ppm    | ppm    | ppb    | ppm     | ppm    | ppm    | %      | ppm    | ppm    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      |        |
| MDL     | 0.01       | 0.01   | 0.01   | 0.01   | 0.1    | 2      | 0.1     | 0.1    | 1      | 0.01   | 0.1    | 0.1    | 0.2    | 0.1    | 0.5    | 0.01   | 0.02   | 0.02   | 2      | 0.01   |        |
| 12501   | Drill Core | 4.50   | 3.55   | 27.06  | 15.37  | 67.3   | 189     | 7.6    | 8.6    | 2094   | 2.82   | 11.7   | 0.5    | 3.3    | 1.0    | 364.2  | 0.51   | 1.16   | 0.34   | 50     | 9.96   |
| 12502   | Drill Core | 5.40   | 15.68  | 40.33  | 23.14  | 81.5   | 292     | 59.8   | 16.7   | 705    | 2.68   | 41.9   | 1.7    | 2.5    | 2.4    | 159.1  | 0.20   | 0.84   | 0.96   | 84     | 8.97   |
| 12503   | Drill Core | 6.50   | 8.22   | 40.74  | 67.82  | 64.2   | 432     | 56.3   | 13.5   | 452    | 2.54   | 63.5   | 0.8    | 4.9    | 2.2    | 125.0  | 0.47   | 1.71   | 1.17   | 61     | 6.51   |
| 12504   | Drill Core | 6.70   | 15.76  | 54.61  | 35.23  | 56.4   | 466     | 96.3   | 19.7   | 422    | 3.62   | 57.5   | 0.7    | 7.2    | 2.6    | 169.0  | 0.28   | 1.97   | 1.12   | 94     | 4.04   |
| 12505   | Drill Core | 7.10   | 240.9  | 54.39  | 36.29  | 53.7   | 245     | 101.4  | 21.2   | 630    | 3.52   | 129.3  | 1.0    | 24.0   | 2.9    | 302.4  | 0.31   | 8.32   | 0.58   | 71     | 8.48   |
| 12506   | Drill Core | 6.90   | 54.34  | 40.06  | 6.55   | 56.7   | 130     | 97.6   | 17.3   | 670    | 3.22   | 108.6  | 0.9    | 5.3    | 2.8    | 291.6  | 0.13   | 2.24   | 0.49   | 102    | 6.82   |
| 12507   | Drill Core | 6.10   | 38.28  | 79.03  | 11.14  | 255.8  | 248     | 120.2  | 23.2   | 1317   | 3.30   | 268.1  | 0.9    | 26.1   | 2.9    | 161.9  | 1.64   | 1.40   | 3.97   | 138    | 5.72   |
| 12508   | Drill Core | 3.50   | 17.64  | 48.45  | 7.68   | 51.1   | 120     | 82.0   | 31.1   | 1050   | 2.03   | 124.1  | 0.7    | 88.1   | 3.0    | 172.4  | 0.27   | 1.26   | 13.15  | 62     | 8.00   |
| 12509   | Drill Core | 1.30   | 9.88   | 17.44  | 18.53  | 43.6   | 1292    | 104.3  | 39.0   | 1855   | 3.30   | 219.7  | 0.7    | 15.4   | 5.0    | 514.6  | 0.18   | 0.99   | 2.07   | 72     | 11.15  |
| 12510   | Rock Pulp  |        | 7.26   | 473.3  | 8751   | >10000 | ·100000 | 25.3   | 11.7   | 1205   | 7.19   | 4154   | 1.7    | 151.7  | 1.2    | 63.9   | 150.6  | 70.58  | 0.13   | 34     | 1.36   |
| 12511   | Drill Core | 7.20   | 17.14  | 43.81  | 24.20  | 43.3   | 1051    | 80.0   | 29.4   | 737    | 2.03   | 374.3  | 0.6    | 109.8  | 2.7    | 163.8  | 0.22   | 1.19   | 6.82   | 62     | 3.78   |
| 12512   | Drill Core | 2.40   | 8.97   | 70.67  | 7.12   | 113.2  | 141     | 73.5   | 15.9   | 398    | 2.15   | 66.4   | 0.7    | 10.5   | 2.3    | 223.9  | 1.01   | 0.77   | 1.18   | 28     | 13.68  |
| 12513   | Drill Core | 5.80   | 13.35  | 54.74  | 9.93   | 88.6   | 114     | 93.5   | 23.7   | 913    | 2.69   | 271.0  | 1.2    | 24.3   | 3.4    | 220.7  | 0.42   | 1.81   | 3.20   | 124    | 6.95   |
| 12514   | Drill Core | 7.40   | 16.13  | 55.03  | 4.04   | 53.8   | 110     | 95.5   | 19.3   | 654    | 2.20   | 276.0  | 1.0    | 32.2   | 2.4    | 172.8  | 0.29   | 1.71   | 4.90   | 102    | 7.19   |
| 12515   | Drill Core | 7.50   | 14.22  | 80.38  | 7.29   | 94.9   | 176     | 82.3   | 18.2   | 460    | 2.71   | 82.2   | 0.8    | 9.6    | 1.5    | 193.2  | 1.01   | 1.69   | 1.03   | 74     | 8.66   |
| 12516   | Drill Core | 7.10   | 12.16  | 46.53  | 14.81  | 125.5  | 191     | 68.9   | 14.8   | 505    | 2.17   | 52.7   | 1.0    | 6.8    | 1.1    | 270.5  | 1.49   | 2.02   | 0.64   | 93     | 12.66  |
| 12517   | Drill Core | 7.20   | 13.06  | 33.46  | 10.98  | 90.4   | 149     | 58.9   | 15.6   | 748    | 2.34   | 142.8  | 1.8    | 12.2   | 1.7    | 367.4  | 0.87   | 3.33   | 1.18   | 107    | 17.33  |
| 12518   | Drill Core | 7.60   | 17.01  | 41.01  | 9.34   | 77.5   | 193     | 75.8   | 16.0   | 414    | 2.97   | 92.2   | 1.8    | 4.5    | 1.5    | 350.4  | 1.22   | 2.27   | 0.18   | 147    | 14.81  |
| 12519   | Drill Core | 4.30   | 13.49  | 36.47  | 9.40   | 71.7   | 207     | 53.2   | 10.5   | 402    | 2.28   | 42.9   | 1.7    | 4.6    | 1.4    | 400.3  | 3.29   | 2.03   | 0.27   | 102    | 15.66  |
| 12520   | Drill Core | 1.10   | 6.59   | 2.81   | 19.67  | 69.2   | 57      | 0.6    | 1.8    | 624    | 2.52   | 9.6    | 2.6    | 0.2    | 17.9   | 36.9   | 0.08   | 0.29   | 0.06   | 7      | 0.68   |
| 12521   | Drill Core | 5.40   | 2.77   | 31.27  | 4.87   | 43.3   | 147     | 45.8   | 14.3   | 638    | 2.16   | 12.3   | 0.9    | 5.0    | 1.0    | 329.4  | 0.43   | 0.60   | 0.12   | 73     | 15.64  |
| 12522   | Drill Core | 6.30   | 3.77   | 8.68   | 3.43   | 27.2   | 110     | 10.4   | 5.5    | 572    | 1.21   | 7.7    | 2.3    | 3.2    | 0.3    | 626.6  | 0.30   | 0.32   | 0.03   | 48     | 27.34  |
| 12523   | Drill Core | 6.80   | 4.94   | 6.00   | 4.11   | 22.0   | 109     | 12.6   | 3.6    | 580    | 1.08   | 19.9   | 2.6    | 2.8    | 0.5    | 695.3  | 0.18   | 0.44   | <0.02  | 40     | 29.53  |
| 12524   | Drill Core | 7.20   | 8.68   | 7.60   | 2.53   | 21.4   | 72      | 10.4   | 3.2    | 870    | 1.41   | 9.1    | 2.5    | 7.9    | 0.3    | 742.9  | 0.18   | 0.21   | <0.02  | 44     | 29.73  |
| 12525   | Drill Core | 6.00   | 3.32   | 2.77   | 5.17   | 17.6   | 115     | 5.3    | 1.7    | 1272   | 0.78   | 15.4   | 3.1    | 2.7    | 0.2    | 776.4  | 0.25   | 0.22   | <0.02  | 30     | 29.77  |
| 12526   | Drill Core | 2.20   | 2.15   | 1.60   | 8.50   | 18.1   | 286     | 5.4    | 1.3    | 1702   | 1.05   | 33.3   | 2.1    | 3.6    | 0.1    | 798.2  | 0.17   | 0.34   | <0.02  | 16     | 29.89  |
| 12527   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R.  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12528   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R.  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12529   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R.  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12530   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R.  | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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Project: 41

Report Date: February 06, 2008

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CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | 1F30       | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   |
|---------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte | P          | La     | Cr     | Mg     | Ba     | Ti     | B      | Al     | Na     | K      | W      | Sc     | Tl     | S      | Hg     | Se     | Te     | Ga     |        |
| Unit    | %          | ppm    | ppm    | %      | ppm    | %      | ppm    | %      | %      | %      | ppm    | ppm    | ppm    | %      | ppb    | ppm    | ppm    | ppm    |        |
| MDL     | 0.001      | 0.5    | 0.5    | 0.01   | 0.5    | 0.001  | 1      | 0.01   | 0.001  | 0.01   | 0.1    | 0.1    | 0.02   | 0.02   | 5      | 0.1    | 0.02   | 0.1    |        |
| 12501   | Drill Core | 0.066  | 3.9    | 14.4   | 0.83   | 40.0   | 0.047  | 1      | 1.87   | 0.012  | 0.12   | 7.4    | 7.9    | 0.05   | 0.21   | 11     | 0.4    | 0.20   | 5.6    |
| 12502   | Drill Core | 0.084  | 10.7   | 70.2   | 1.06   | 16.2   | 0.123  | 2      | 1.16   | 0.027  | 0.06   | 0.8    | 7.2    | 0.05   | 0.25   | 13     | 0.8    | 0.17   | 6.6    |
| 12503   | Drill Core | 0.079  | 6.8    | 56.6   | 0.72   | 38.9   | 0.129  | 1      | 0.91   | 0.110  | 0.10   | 0.7    | 5.4    | 0.10   | 1.09   | 24     | 1.3    | 0.21   | 4.9    |
| 12504   | Drill Core | 0.098  | 6.5    | 65.4   | 1.29   | 96.9   | 0.138  | 1      | 1.86   | 0.213  | 0.16   | 0.7    | 6.5    | 0.24   | 1.57   | 8      | 2.1    | 0.20   | 7.5    |
| 12505   | Drill Core | 0.113  | 9.7    | 53.5   | 1.22   | 46.1   | 0.074  | <1     | 1.76   | 0.135  | 0.08   | 0.5    | 7.1    | 0.69   | 1.31   | 16     | 1.4    | 0.11   | 5.2    |
| 12506   | Drill Core | 0.084  | 8.5    | 91.1   | 1.73   | 34.9   | 0.111  | 1      | 1.20   | 0.054  | 0.14   | 0.6    | 7.4    | 0.25   | 0.99   | 6      | 1.2    | 0.12   | 5.8    |
| 12507   | Drill Core | 0.094  | 9.4    | 103.9  | 1.18   | 22.4   | 0.128  | 1      | 1.35   | 0.055  | 0.11   | 0.9    | 8.5    | 0.12   | 0.98   | 17     | 1.1    | 0.18   | 6.8    |
| 12508   | Drill Core | 0.089  | 6.9    | 49.0   | 0.87   | 25.0   | 0.101  | 1      | 0.98   | 0.077  | 0.05   | 0.6    | 4.5    | 0.04   | 0.59   | 22     | 0.8    | 0.28   | 4.0    |
| 12509   | Drill Core | 0.098  | 20.9   | 65.8   | 1.34   | 15.6   | 0.004  | 3      | 2.23   | 0.019  | 0.10   | 0.3    | 13.2   | 0.02   | 0.15   | 11     | 0.5    | 0.31   | 4.2    |
| 12510   | Rock Pulp  | 0.045  | 3.2    | 25.9   | 0.41   | 26.5   | 0.038  | 2      | 0.90   | 0.047  | 0.13   | 0.8    | 2.6    | 0.54   | 5.72   | 710    | 22.1   | 0.07   | 3.4    |
| 12511   | Drill Core | 0.087  | 8.1    | 35.8   | 0.77   | 21.8   | 0.066  | 3      | 1.09   | 0.092  | 0.10   | 0.4    | 5.6    | 0.04   | 0.54   | 18     | 1.1    | 0.20   | 4.0    |
| 12512   | Drill Core | 0.099  | 6.9    | 18.9   | 0.28   | 19.6   | 0.081  | 2      | 1.94   | 0.185  | 0.04   | 0.4    | 1.9    | 0.04   | 1.13   | 16     | 1.7    | 0.26   | 3.9    |
| 12513   | Drill Core | 0.105  | 8.6    | 75.4   | 1.09   | 20.1   | 0.119  | 2      | 1.77   | 0.164  | 0.09   | 0.7    | 7.0    | 0.10   | 0.83   | 34     | 1.1    | 0.09   | 7.9    |
| 12514   | Drill Core | 0.111  | 8.6    | 48.3   | 0.68   | 16.7   | 0.077  | 3      | 1.51   | 0.131  | 0.08   | 0.6    | 4.5    | 0.09   | 0.89   | <5     | 2.4    | 0.07   | 5.2    |
| 12515   | Drill Core | 0.100  | 4.9    | 33.0   | 0.63   | 17.2   | 0.079  | 3      | 1.33   | 0.144  | 0.06   | 0.7    | 4.3    | 0.07   | 1.45   | 15     | 3.7    | 0.04   | 4.4    |
| 12516   | Drill Core | 0.100  | 4.2    | 37.0   | 0.65   | 41.2   | 0.082  | 3      | 1.44   | 0.130  | 0.04   | 0.5    | 4.4    | 0.06   | 1.15   | 42     | 3.2    | 0.05   | 4.7    |
| 12517   | Drill Core | 0.104  | 7.9    | 45.9   | 0.84   | 42.6   | 0.040  | 6      | 1.63   | 0.119  | 0.07   | 0.4    | 5.9    | 0.10   | 1.15   | 20     | 2.3    | 0.04   | 5.0    |
| 12518   | Drill Core | 0.096  | 6.5    | 49.4   | 1.06   | 80.4   | 0.059  | 2      | 1.96   | 0.154  | 0.05   | 0.4    | 6.3    | 0.13   | 1.81   | 8      | 3.8    | <0.02  | 6.5    |
| 12519   | Drill Core | 0.095  | 6.0    | 32.8   | 0.91   | 77.6   | 0.050  | 2      | 1.32   | 0.099  | 0.06   | 0.2    | 5.0    | 0.08   | 1.22   | <5     | 2.6    | 0.08   | 4.1    |
| 12520   | Drill Core | 0.056  | 77.2   | 1.3    | 0.15   | 28.6   | 0.008  | <1     | 0.27   | 0.036  | 0.11   | <0.1   | 1.5    | <0.02  | 0.07   | <5     | 0.4    | <0.02  | 2.1    |
| 12521   | Drill Core | 0.062  | 3.6    | 52.5   | 1.14   | 42.7   | 0.077  | 1      | 1.25   | 0.052  | 0.22   | 0.3    | 7.3    | 0.21   | 0.79   | <5     | 1.4    | 0.03   | 5.0    |
| 12522   | Drill Core | 0.062  | 2.3    | 15.3   | 0.92   | 67.3   | 0.039  | 2      | 0.67   | 0.019  | 0.12   | 0.2    | 4.2    | 0.11   | 0.10   | <5     | 0.9    | 0.05   | 2.4    |
| 12523   | Drill Core | 0.065  | 3.2    | 21.0   | 0.82   | 22.9   | 0.009  | <1     | 0.56   | 0.006  | 0.05   | 0.1    | 2.8    | 0.22   | 0.12   | 14     | 0.8    | 0.03   | 2.4    |
| 12524   | Drill Core | 0.063  | 3.0    | 16.8   | 1.17   | 28.7   | 0.010  | 1      | 0.73   | 0.005  | 0.04   | 1.8    | 3.0    | 0.09   | <0.02  | 8      | 1.6    | 0.06   | 2.4    |
| 12525   | Drill Core | 0.050  | 2.4    | 11.2   | 1.14   | 45.6   | 0.006  | 1      | 0.49   | 0.003  | 0.02   | 0.2    | 2.0    | <0.02  | 0.12   | 10     | 0.7    | 0.06   | 1.5    |
| 12526   | Drill Core | 0.024  | 2.9    | 7.1    | 0.62   | 118.6  | <0.001 | <1     | 0.27   | 0.002  | <0.01  | 0.2    | 1.5    | <0.02  | 0.34   | 9      | 0.7    | 0.10   | 1.2    |
| 12527   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12528   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12529   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12530   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |

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# CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method | Analyte    | WGHT   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   |
|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|        |            | Wgt    | Mo     | Cu     | Pb     | Zn     | Ag     | Ni     | Co     | Mn     | Fe     | As     | U      | Au     | Th     | Sr     | Cd     | Sb     | Bi     | V      | Ca     |
| Unit   |            | kg     | ppm    | ppm    | ppm    | ppm    | ppb    | ppm    | ppm    | %      | ppm    | ppm    | ppb    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | ppm    | %      |
| MDL    |            | 0.01   | 0.01   | 0.01   | 0.01   | 0.1    | 2      | 0.1    | 0.1    | 1      | 0.01   | 0.1    | 0.1    | 0.2    | 0.1    | 0.5    | 0.01   | 0.02   | 0.02   | 2      | 0.01   |
| 12531  | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| 12532  | Drill Core | 6.00   | 5.75   | 5.42   | 7.94   | 30.2   | 234    | 7.8    | 2.5    | 1459   | 1.37   | 16.5   | 4.9    | 4.3    | 0.5    | 907.8  | 0.36   | 0.18   | <0.02  | 47     | 30.27  |
| 12533  | Drill Core | 6.80   | 3.47   | 6.01   | 2.70   | 16.2   | 118    | 6.7    | 2.2    | 1218   | 0.80   | 5.3    | 2.8    | 1.7    | 0.3    | 1146   | 0.34   | 0.18   | <0.02  | 32     | 29.92  |
| 12534  | Drill Core | 6.90   | 3.26   | 6.09   | 1.68   | 13.2   | 105    | 7.2    | 2.8    | 969    | 0.67   | 3.9    | 4.0    | 1.9    | 0.3    | 904.9  | 0.36   | 0.17   | 0.03   | 23     | 29.79  |
| 12535  | Drill Core | 7.20   | 8.34   | 18.46  | 1.48   | 13.9   | 47     | 6.2    | 2.7    | 937    | 0.72   | 4.3    | 2.7    | 1.9    | 0.2    | 734.4  | 0.43   | 0.19   | 0.03   | 22     | 28.78  |
| 12536  | Drill Core | 7.30   | 2.19   | 7.43   | 3.25   | 30.1   | 107    | 11.6   | 4.4    | 1003   | 1.07   | 31.7   | 3.4    | 4.1    | 0.4    | 699.7  | 0.51   | 0.29   | 0.02   | 41     | 28.53  |
| 12537  | Drill Core | 6.30   | 3.01   | 13.41  | 4.35   | 28.7   | 301    | 13.3   | 5.4    | 1170   | 1.49   | 40.3   | 2.3    | 6.9    | 0.3    | 663.3  | 0.42   | 0.40   | 0.02   | 51     | 25.15  |
| 12538  | Drill Core | 1.00   | 2.46   | 15.63  | 2.92   | 34.5   | 298    | 6.1    | 1.8    | 1279   | 1.57   | 7.9    | 1.1    | 0.9    | 0.2    | 514.3  | 0.12   | 0.39   | <0.02  | 32     | 14.32  |
| 12539  | Drill Core | 6.20   | 4.00   | 14.40  | 2.24   | 27.1   | 166    | 19.3   | 6.8    | 1165   | 1.74   | 14.6   | 2.2    | 2.0    | 0.8    | 615.8  | 0.21   | 0.28   | 0.06   | 56     | 23.57  |
| 12540  | Drill Core | 0.70   | 3.68   | 1.41   | 21.43  | 62.6   | 51     | 0.6    | 1.5    | 658    | 2.48   | 5.8    | 2.2    | 2.4    | 15.7   | 44.5   | 0.06   | 0.19   | 0.05   | 10     | 0.99   |
| 12541  | Drill Core | 6.00   | 3.41   | 45.86  | 5.88   | 110.1  | 303    | 16.2   | 10.1   | 1818   | 2.99   | 13.5   | 0.6    | 2.6    | 1.4    | 435.0  | 0.75   | 0.91   | 0.35   | 90     | 7.89   |
| 12542  | Drill Core | 7.90   | 4.82   | 50.51  | 22.53  | 71.5   | 1629   | 21.8   | 11.9   | 2467   | 4.41   | 158.3  | 1.7    | 11.6   | 0.9    | 406.1  | 0.73   | 2.88   | 0.39   | 105    | 16.36  |
| 12543  | Drill Core | 6.50   | 3.13   | 65.57  | 18.03  | 95.5   | 465    | 19.7   | 12.1   | 2191   | 2.55   | 17.7   | 0.6    | 4.2    | 0.8    | 327.9  | 0.71   | 1.06   | 0.23   | 73     | 7.04   |



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# CERTIFICATE OF ANALYSIS

VAN08003302.1

| Method  | 1F30       | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30   | 1F30 |
|---------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| Analyte | P          | La     | Cr     | Mg     | Ba     | Ti     | B      | Al     | Na     | K      | W      | Sc     | Tl     | S      | Hg     | Se     | Te     | Ga     |      |
| Unit    | %          | ppm    | ppm    | %      | ppm    | %      | ppm    | %      | %      | %      | ppm    | ppm    | ppm    | %      | ppb    | ppm    | ppm    | ppm    |      |
| MDL     | 0.001      | 0.5    | 0.5    | 0.01   | 0.5    | 0.001  | 1      | 0.01   | 0.001  | 0.01   | 0.1    | 0.1    | 0.02   | 0.02   | 5      | 0.1    | 0.02   | 0.1    |      |
| 12531   | Drill Core | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |      |
| 12532   | Drill Core | 0.098  | 4.2    | 15.6   | 1.40   | 33.9   | 0.008  | <1     | 0.67   | 0.003  | 0.04   | 0.3    | 3.3    | <0.02  | 0.04   | <5     | 0.7    | 0.04   | 2.3  |
| 12533   | Drill Core | 0.054  | 2.5    | 14.0   | 1.41   | 123.5  | 0.011  | <1     | 0.53   | 0.005  | 0.04   | 0.1    | 2.4    | <0.02  | 0.17   | <5     | 0.6    | 0.04   | 1.5  |
| 12534   | Drill Core | 0.067  | 2.6    | 12.2   | 1.20   | 48.9   | 0.015  | 2      | 0.50   | 0.004  | 0.05   | 0.1    | 1.9    | <0.02  | 0.04   | <5     | 0.5    | 0.56   | 1.6  |
| 12535   | Drill Core | 0.042  | 2.2    | 12.2   | 1.01   | 60.1   | 0.012  | 2      | 0.38   | 0.003  | 0.05   | 0.1    | 1.8    | <0.02  | 0.11   | <5     | 1.4    | 0.50   | 1.4  |
| 12536   | Drill Core | 0.058  | 3.5    | 19.8   | 1.34   | 47.2   | 0.010  | <1     | 0.68   | 0.006  | 0.02   | 0.2    | 3.1    | <0.02  | 0.20   | <5     | 0.7    | 0.42   | 2.7  |
| 12537   | Drill Core | 0.059  | 2.9    | 21.2   | 1.43   | 48.2   | 0.006  | <1     | 0.71   | 0.009  | 0.02   | 0.2    | 3.5    | <0.02  | 0.66   | 8      | 0.9    | 0.08   | 3.3  |
| 12538   | Drill Core | 0.038  | 2.1    | 16.0   | 0.80   | 48.2   | 0.004  | <1     | 0.48   | 0.004  | <0.01  | 0.6    | 2.1    | <0.02  | 0.15   | <5     | 0.3    | 0.07   | 2.4  |
| 12539   | Drill Core | 0.072  | 6.2    | 30.3   | 1.34   | 57.4   | 0.008  | <1     | 1.15   | 0.014  | 0.07   | 0.2    | 4.0    | 0.03   | 0.30   | 8      | 0.8    | 0.10   | 5.2  |
| 12540   | Drill Core | 0.053  | 63.0   | 2.1    | 0.13   | 26.0   | 0.005  | <1     | 0.31   | 0.043  | 0.13   | <0.1   | 1.3    | <0.02  | 0.06   | <5     | 0.3    | <0.02  | 2.4  |
| 12541   | Drill Core | 0.097  | 11.6   | 28.0   | 1.87   | 183.4  | 0.017  | <1     | 2.02   | 0.042  | 0.13   | 1.0    | 9.8    | 0.03   | 0.24   | <5     | 0.6    | 0.03   | 9.5  |
| 12542   | Drill Core | 0.083  | 6.0    | 25.8   | 1.17   | 195.1  | 0.032  | 2      | 1.62   | 0.020  | 0.20   | 1.2    | 7.3    | 0.07   | 2.23   | 36     | 1.2    | 0.04   | 5.0  |
| 12543   | Drill Core | 0.092  | 3.7    | 40.3   | 1.59   | 238.6  | 0.084  | 1      | 1.49   | 0.048  | 0.05   | 37.2   | 6.3    | <0.02  | 0.38   | <5     | 0.8    | 0.04   | 5.7  |

**QUALITY CONTROL REPORT**

**VAN08003302.1**

| Method                 | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  |
|------------------------|------------|------|-------|-------|-------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|-------|------|-------|
| Analyte                | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag   | Ni   | Co    | Mn   | Fe   | As   | U     | Au   | Th   | Sr   | Cd    | Sb   | Bi   | V     | Ca   |       |
| Unit                   | kg         | ppm  | ppm   | ppm   | ppm   | ppb  | ppm  | ppm   | ppm  | %    | ppm  | ppm   | ppb  | ppm  | ppm  | ppm   | ppm  | ppm  | ppm   | %    |       |
| MDL                    | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2    | 0.1  | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1  | 0.5  | 0.01  | 0.02 | 0.02 | 2     | 0.01 |       |
| Pulp Duplicates        |            |      |       |       |       |      |      |       |      |      |      |       |      |      |      |       |      |      |       |      |       |
| 12365                  | Drill Core | 3.80 | 12.20 | 43.73 | 2.90  | 75.0 | 64   | 103.6 | 17.1 | 1068 | 2.61 | 64.0  | 0.8  | 11.2 | 3.7  | 181.2 | 0.22 | 1.27 | 0.37  | 154  | 5.77  |
| REP 12365              | QC         |      | 12.14 | 43.05 | 2.89  | 76.4 | 62   | 102.6 | 17.0 | 1057 | 2.63 | 62.5  | 0.8  | 5.0  | 3.6  | 181.4 | 0.19 | 1.25 | 0.33  | 154  | 5.68  |
| 12389                  | Drill Core | 6.10 | 2.99  | 33.00 | 15.77 | 58.2 | 138  | 26.8  | 10.2 | 1186 | 3.04 | 7.5   | 1.5  | 1.0  | 10.1 | 377.9 | 0.16 | 0.18 | 0.11  | 66   | 6.30  |
| REP 12389              | QC         |      | 2.96  | 33.10 | 15.85 | 58.1 | 127  | 27.1  | 10.8 | 1182 | 2.99 | 7.5   | 1.5  | 1.1  | 10.3 | 376.5 | 0.18 | 0.16 | 0.11  | 66   | 6.19  |
| 12393                  | Drill Core | 7.20 | 9.03  | 34.74 | 5.52  | 29.0 | 240  | 77.5  | 23.4 | 733  | 1.48 | 118.9 | 0.7  | 21.5 | 1.9  | 192.2 | 0.14 | 1.05 | 9.62  | 41   | 9.54  |
| REP 12393              | QC         |      | 9.02  | 33.96 | 5.44  | 29.0 | 239  | 78.1  | 23.2 | 727  | 1.46 | 120.2 | 0.7  | 21.9 | 1.8  | 193.1 | 0.15 | 1.06 | 9.59  | 41   | 9.61  |
| 12415                  | Drill Core | 7.30 | 4.05  | 41.59 | 7.63  | 55.2 | 187  | 53.8  | 14.3 | 635  | 2.61 | 78.5  | 0.7  | 7.7  | 2.6  | 187.9 | 0.30 | 2.40 | 0.43  | 66   | 8.21  |
| REP 12415              | QC         |      | 4.33  | 43.91 | 8.15  | 57.6 | 204  | 55.6  | 15.3 | 643  | 2.74 | 85.8  | 0.7  | 7.9  | 2.7  | 191.8 | 0.29 | 2.61 | 0.46  | 69   | 8.57  |
| 12429                  | Drill Core | 5.20 | 1.98  | 21.10 | 8.55  | 47.4 | 142  | 9.3   | 12.6 | 676  | 3.66 | 29.8  | 0.2  | 4.1  | 1.1  | 279.6 | 0.19 | 0.63 | 0.24  | 49   | 2.69  |
| REP 12429              | QC         |      | 1.98  | 20.01 | 8.07  | 46.0 | 144  | 8.9   | 12.4 | 666  | 3.69 | 30.2  | 0.2  | 3.6  | 1.1  | 281.5 | 0.18 | 0.62 | 0.24  | 50   | 2.74  |
| 12457                  | Drill Core | 6.40 | 15.21 | 68.69 | 3.67  | 41.7 | 132  | 90.5  | 19.8 | 547  | 1.98 | 165.9 | 1.2  | 11.1 | 2.4  | 209.6 | 0.45 | 1.00 | 2.48  | 97   | 7.67  |
| REP 12457              | QC         |      | 15.03 | 68.83 | 3.76  | 41.8 | 127  | 94.0  | 19.7 | 526  | 2.04 | 166.8 | 1.2  | 10.8 | 2.5  | 209.6 | 0.46 | 0.99 | 2.53  | 97   | 7.71  |
| 12467                  | Drill Core | 3.00 | 4.86  | 3.05  | 2.15  | 12.4 | 53   | 6.0   | 1.8  | 1113 | 0.64 | 5.2   | 3.5  | 1.3  | 0.3  | 738.7 | 0.21 | 0.17 | <0.02 | 28   | 32.32 |
| REP 12467              | QC         |      | 4.95  | 3.15  | 2.29  | 13.0 | 55   | 5.3   | 1.8  | 1131 | 0.65 | 5.0   | 3.6  | 1.2  | 0.3  | 769.8 | 0.21 | 0.17 | <0.02 | 28   | 32.60 |
| 12482                  | Drill Core | 2.30 | 3.11  | 12.21 | 16.56 | 40.9 | 796  | 10.2  | 4.2  | 1269 | 1.31 | 55.9  | 2.3  | 10.1 | 0.5  | 609.9 | 0.40 | 0.75 | <0.02 | 42   | 26.09 |
| REP 12482              | QC         |      | 3.26  | 12.84 | 17.08 | 40.7 | 827  | 11.8  | 4.4  | 1294 | 1.34 | 58.1  | 2.5  | 11.7 | 0.5  | 621.0 | 0.42 | 0.78 | <0.02 | 43   | 25.84 |
| 12502                  | Drill Core | 5.40 | 15.68 | 40.33 | 23.14 | 81.5 | 292  | 59.8  | 16.7 | 705  | 2.68 | 41.9  | 1.7  | 2.5  | 2.4  | 159.1 | 0.20 | 0.84 | 0.96  | 84   | 8.97  |
| REP 12502              | QC         |      | 15.48 | 41.06 | 23.36 | 80.0 | 305  | 61.0  | 17.7 | 694  | 2.63 | 41.6  | 1.7  | 3.8  | 2.5  | 155.8 | 0.20 | 0.89 | 1.00  | 83   | 8.66  |
| 12514                  | Drill Core | 7.40 | 16.13 | 55.03 | 4.04  | 53.8 | 110  | 95.5  | 19.3 | 654  | 2.20 | 276.0 | 1.0  | 32.2 | 2.4  | 172.8 | 0.29 | 1.71 | 4.90  | 102  | 7.19  |
| REP 12514              | QC         |      | 17.12 | 56.13 | 4.04  | 56.8 | 118  | 103.2 | 20.1 | 689  | 2.29 | 287.6 | 1.0  | 34.3 | 2.5  | 179.0 | 0.24 | 1.78 | 5.28  | 106  | 7.55  |
| 12540                  | Drill Core | 0.70 | 3.68  | 1.41  | 21.43 | 62.6 | 51   | 0.6   | 1.5  | 658  | 2.48 | 5.8   | 2.2  | 2.4  | 15.7 | 44.5  | 0.06 | 0.19 | 0.05  | 10   | 0.99  |
| REP 12540              | QC         |      | 3.89  | 1.59  | 22.32 | 65.3 | 51   | 0.6   | 1.7  | 670  | 2.55 | 6.1   | 2.4  | 1.7  | 16.4 | 45.7  | 0.07 | 0.19 | 0.05  | 10   | 1.07  |
| Core Reject Duplicates |            |      |       |       |       |      |      |       |      |      |      |       |      |      |      |       |      |      |       |      |       |
| 12367                  | Drill Core | 4.20 | 15.09 | 71.10 | 2.94  | 52.5 | 81   | 69.8  | 17.4 | 609  | 1.70 | 61.0  | 0.9  | 5.5  | 2.1  | 242.0 | 0.19 | 1.21 | 0.44  | 82   | 6.49  |
| DUP 12367              | QC         |      | 14.21 | 52.74 | 2.93  | 56.4 | 72   | 65.2  | 15.4 | 727  | 1.74 | 58.0  | 0.8  | 5.3  | 2.1  | 262.8 | 0.18 | 1.18 | 0.37  | 85   | 8.22  |
| 12402                  | Drill Core | 0.50 | 31.35 | 16.24 | 7.51  | 20.6 | 104  | 31.0  | 7.0  | 2186 | 2.19 | 39.6  | 0.6  | 8.8  | 0.8  | 742.2 | 0.04 | 1.91 | 0.33  | 15   | 15.30 |
| DUP 12402              | QC         |      | 28.83 | 14.35 | 6.73  | 23.3 | 95   | 28.1  | 6.1  | 2488 | 2.40 | 38.2  | 0.5  | 8.9  | 0.7  | 817.5 | 0.04 | 1.73 | 0.32  | 15   | 16.87 |
| 12437                  | Drill Core | 4.80 | 0.73  | 6.56  | 6.99  | 65.8 | 51   | 8.6   | 12.5 | 924  | 3.42 | 17.8  | 0.3  | 2.5  | 1.1  | 162.3 | 0.11 | 0.27 | 0.13  | 89   | 2.62  |

**QUALITY CONTROL REPORT**

**VAN08003302.1**

| Method                 |            | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  |     |
|------------------------|------------|-------|------|-------|------|-------|--------|------|------|-------|------|------|------|-------|------|------|------|-------|-----|
| Analyte                |            | P     | La   | Cr    | Mg   | Ba    | Ti     | B    | Al   | Na    | K    | W    | Sc   | Tl    | S    | Hg   | Se   | Te    | Ga  |
| Unit                   |            | %     | ppm  | ppm   | %    | ppm   | %      | ppm  | %    | %     | %    | ppm  | ppm  | ppm   | %    | ppb  | ppm  | ppm   | ppm |
| MDL                    |            | 0.001 | 0.5  | 0.5   | 0.01 | 0.5   | 0.001  | 1    | 0.01 | 0.001 | 0.01 | 0.1  | 0.1  | 0.02  | 0.02 | 5    | 0.1  | 0.02  | 0.1 |
| Pulp Duplicates        |            |       |      |       |      |       |        |      |      |       |      |      |      |       |      |      |      |       |     |
| 12365                  | Drill Core | 0.115 | 12.0 | 105.3 | 1.32 | 72.1  | 0.108  | 2    | 2.00 | 0.177 | 0.06 | 0.3  | 10.2 | <0.02 | 0.11 | 21   | 0.2  | <0.02 | 8.1 |
| REP 12365              | QC         | 0.115 | 12.1 | 104.4 | 1.33 | 71.4  | 0.104  | 1    | 2.01 | 0.168 | 0.06 | 0.2  | 10.1 | <0.02 | 0.11 | 9    | 0.3  | 0.02  | 8.5 |
| 12389                  | Drill Core | 0.198 | 54.1 | 64.4  | 1.44 | 28.7  | 0.003  | <1   | 2.26 | 0.003 | 0.09 | <0.1 | 8.2  | 0.02  | 0.10 | <5   | 0.5  | <0.02 | 5.0 |
| REP 12389              | QC         | 0.193 | 53.2 | 63.2  | 1.42 | 28.4  | 0.003  | <1   | 2.25 | 0.002 | 0.09 | <0.1 | 8.4  | 0.02  | 0.10 | 6    | 0.3  | <0.02 | 4.9 |
| 12393                  | Drill Core | 0.107 | 6.1  | 36.7  | 0.61 | 57.6  | 0.095  | 2    | 1.22 | 0.117 | 0.03 | 0.5  | 2.6  | 0.03  | 0.30 | <5   | 0.6  | 0.06  | 4.6 |
| REP 12393              | QC         | 0.106 | 6.0  | 36.1  | 0.60 | 57.3  | 0.096  | 2    | 1.21 | 0.116 | 0.03 | 0.5  | 2.5  | 0.03  | 0.29 | <5   | 0.6  | 0.03  | 4.5 |
| 12415                  | Drill Core | 0.087 | 11.3 | 75.6  | 1.07 | 55.0  | 0.095  | <1   | 1.09 | 0.041 | 0.14 | 0.2  | 7.1  | 0.12  | 1.11 | <5   | 0.5  | 0.05  | 5.1 |
| REP 12415              | QC         | 0.096 | 11.8 | 77.2  | 1.13 | 54.8  | 0.096  | <1   | 1.13 | 0.041 | 0.14 | 0.3  | 7.7  | 0.14  | 1.17 | <5   | 0.5  | 0.04  | 5.4 |
| 12429                  | Drill Core | 0.087 | 6.1  | 11.2  | 1.06 | 31.6  | <0.001 | <1   | 1.89 | 0.008 | 0.16 | <0.1 | 7.5  | 0.04  | 0.68 | <5   | 0.5  | 0.04  | 3.2 |
| REP 12429              | QC         | 0.089 | 6.3  | 10.7  | 1.07 | 31.7  | <0.001 | <1   | 1.93 | 0.008 | 0.17 | <0.1 | 8.0  | 0.04  | 0.68 | <5   | 0.4  | 0.05  | 3.2 |
| 12457                  | Drill Core | 0.113 | 8.0  | 40.9  | 0.64 | 22.5  | 0.142  | 2    | 1.35 | 0.165 | 0.07 | 0.5  | 4.1  | 0.04  | 0.71 | <5   | 1.7  | 0.06  | 5.1 |
| REP 12457              | QC         | 0.112 | 8.1  | 41.5  | 0.64 | 24.7  | 0.140  | 2    | 1.38 | 0.170 | 0.08 | 0.5  | 4.3  | 0.05  | 0.69 | <5   | 1.7  | 0.04  | 5.0 |
| 12467                  | Drill Core | 0.051 | 2.9  | 12.2  | 1.30 | 38.8  | 0.018  | <1   | 0.45 | 0.010 | 0.04 | 0.2  | 2.0  | <0.02 | 0.11 | <5   | 0.4  | 0.05  | 1.9 |
| REP 12467              | QC         | 0.052 | 2.8  | 12.9  | 1.31 | 37.8  | 0.018  | <1   | 0.47 | 0.010 | 0.04 | <0.1 | 2.2  | <0.02 | 0.13 | 6    | 0.4  | 0.04  | 1.9 |
| 12482                  | Drill Core | 0.059 | 3.6  | 16.2  | 0.94 | 36.5  | 0.003  | 2    | 1.55 | 0.005 | 0.05 | 0.2  | 3.7  | <0.02 | 0.42 | 16   | 0.7  | 0.45  | 2.8 |
| REP 12482              | QC         | 0.059 | 3.7  | 16.7  | 0.95 | 37.2  | 0.002  | 2    | 1.59 | 0.006 | 0.05 | 0.3  | 3.9  | <0.02 | 0.45 | 10   | 0.7  | 0.49  | 3.3 |
| 12502                  | Drill Core | 0.084 | 10.7 | 70.2  | 1.06 | 16.2  | 0.123  | 2    | 1.16 | 0.027 | 0.06 | 0.8  | 7.2  | 0.05  | 0.25 | 13   | 0.8  | 0.17  | 6.6 |
| REP 12502              | QC         | 0.087 | 10.5 | 70.5  | 1.03 | 17.4  | 0.125  | 2    | 1.54 | 0.028 | 0.07 | 0.8  | 7.6  | 0.05  | 0.25 | 17   | 0.6  | 0.13  | 6.4 |
| 12514                  | Drill Core | 0.111 | 8.6  | 48.3  | 0.68 | 16.7  | 0.077  | 3    | 1.51 | 0.131 | 0.08 | 0.6  | 4.5  | 0.09  | 0.89 | <5   | 2.4  | 0.07  | 5.2 |
| REP 12514              | QC         | 0.114 | 9.1  | 50.0  | 0.71 | 17.4  | 0.080  | 3    | 1.57 | 0.134 | 0.09 | 0.5  | 4.7  | 0.09  | 0.93 | <5   | 2.6  | 0.05  | 5.4 |
| 12540                  | Drill Core | 0.053 | 63.0 | 2.1   | 0.13 | 26.0  | 0.005  | <1   | 0.31 | 0.043 | 0.13 | <0.1 | 1.3  | <0.02 | 0.06 | <5   | 0.3  | <0.02 | 2.4 |
| REP 12540              | QC         | 0.056 | 68.1 | 2.3   | 0.14 | 26.4  | 0.005  | <1   | 0.34 | 0.046 | 0.14 | 0.1  | 1.3  | 0.02  | 0.06 | <5   | 0.2  | <0.02 | 2.7 |
| Core Reject Duplicates |            |       |      |       |      |       |        |      |      |       |      |      |      |       |      |      |      |       |     |
| 12367                  | Drill Core | 0.112 | 8.3  | 43.7  | 0.70 | 120.0 | 0.117  | 3    | 2.59 | 0.308 | 0.06 | 0.5  | 4.4  | 0.03  | 0.40 | <5   | 0.9  | 0.03  | 7.5 |
| DUP 12367              | QC         | 0.107 | 8.0  | 48.1  | 0.74 | 94.6  | 0.096  | 3    | 2.36 | 0.267 | 0.05 | 0.4  | 4.7  | 0.02  | 0.32 | <5   | 0.7  | 0.03  | 7.1 |
| 12402                  | Drill Core | 0.019 | 11.7 | 6.1   | 0.67 | 17.7  | <0.001 | <1   | 1.36 | 0.009 | 0.16 | <0.1 | 3.4  | 0.12  | 0.52 | <5   | 0.5  | <0.02 | 2.9 |
| DUP 12402              | QC         | 0.015 | 11.8 | 7.0   | 0.75 | 20.0  | <0.001 | <1   | 1.49 | 0.009 | 0.15 | <0.1 | 3.3  | 0.10  | 0.38 | <5   | 0.2  | 0.04  | 3.3 |
| 12437                  | Drill Core | 0.084 | 6.9  | 29.8  | 1.29 | 89.4  | 0.044  | <1   | 1.93 | 0.066 | 0.39 | <0.1 | 8.5  | 0.14  | 0.20 | <5   | 0.2  | 0.07  | 7.6 |



**QUALITY CONTROL REPORT**

**VAN08003302.1**

|                     |            | WGHT  | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------------------|------------|-------|-------|-------|-------|-------|------|-------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-------|
|                     |            | Wgt   | Mo    | Cu    | Pb    | Zn    | Ag   | Ni    | Co   | Mn   | Fe    | As    | U    | Au   | Th   | Sr    | Cd    | Sb    | Bi    | V    | Ca    |
|                     |            | kg    | ppm   | ppm   | ppm   | ppm   | ppb  | ppm   | ppm  | ppm  | %     | ppm   | ppm  | ppb  | ppm  | ppm   | ppm   | ppm   | ppm   | ppm  | %     |
|                     |            | 0.01  | 0.01  | 0.01  | 0.01  | 0.1   | 2    | 0.1   | 0.1  | 1    | 0.01  | 0.1   | 0.1  | 0.2  | 0.1  | 0.5   | 0.01  | 0.02  | 0.02  | 2    | 0.01  |
| DUP 12437           | QC         |       | 0.74  | 6.26  | 6.84  | 62.1  | 53   | 8.5   | 12.2 | 923  | 3.40  | 17.1  | 0.3  | 2.3  | 1.1  | 157.8 | 0.10  | 0.26  | 0.13  | 89   | 2.67  |
| 12472               | Drill Core | 2.30  | 5.34  | 3.93  | 28.60 | 30.9  | 945  | 8.6   | 3.2  | 1152 | 1.06  | 81.3  | 3.8  | 12.7 | 0.4  | 684.5 | 0.38  | 0.81  | <0.02 | 37   | 31.60 |
| DUP 12472           | QC         |       | 5.41  | 3.95  | 27.10 | 30.4  | 942  | 8.7   | 3.0  | 1186 | 1.05  | 80.0  | 3.7  | 11.7 | 0.4  | 680.0 | 0.35  | 0.78  | <0.02 | 37   | 32.16 |
| 12507               | Drill Core | 6.10  | 38.28 | 79.03 | 11.14 | 255.8 | 248  | 120.2 | 23.2 | 1317 | 3.30  | 268.1 | 0.9  | 26.1 | 2.9  | 161.9 | 1.64  | 1.40  | 3.97  | 138  | 5.72  |
| DUP 12507           | QC         |       | 36.24 | 77.13 | 10.18 | 251.5 | 256  | 115.8 | 21.3 | 1284 | 3.22  | 255.6 | 0.9  | 25.3 | 2.9  | 154.5 | 1.61  | 1.36  | 4.14  | 136  | 5.49  |
| 12542               | Drill Core | 7.90  | 4.82  | 50.51 | 22.53 | 71.5  | 1629 | 21.8  | 11.9 | 2467 | 4.41  | 158.3 | 1.7  | 11.6 | 0.9  | 406.1 | 0.73  | 2.88  | 0.39  | 105  | 16.36 |
| DUP 12542           | QC         |       | 4.66  | 42.56 | 23.64 | 74.8  | 1680 | 24.5  | 12.1 | 2454 | 4.67  | 155.6 | 1.8  | 13.7 | 1.1  | 365.1 | 0.74  | 2.91  | 0.49  | 114  | 13.62 |
| Reference Materials |            |       |       |       |       |       |      |       |      |      |       |       |      |      |      |       |       |       |       |      |       |
| STD DS7             | Standard   |       | 21.12 | 107.1 | 80.54 | 422.4 | 899  | 59.0  | 10.2 | 636  | 2.43  | 56.5  | 5.7  | 77.1 | 5.1  | 76.5  | 7.03  | 6.83  | 5.44  | 83   | 0.95  |
| STD DS7             | Standard   |       | 19.75 | 108.7 | 79.09 | 402.4 | 923  | 55.1  | 9.5  | 631  | 2.44  | 54.1  | 4.8  | 74.3 | 4.3  | 70.7  | 6.72  | 6.36  | 4.43  | 86   | 0.94  |
| STD DS7             | Standard   |       | 21.89 | 101.3 | 60.65 | 401.2 | 852  | 57.7  | 10.2 | 600  | 2.34  | 50.3  | 5.1  | 67.5 | 4.9  | 77.8  | 6.83  | 6.32  | 4.67  | 83   | 0.98  |
| STD DS7             | Standard   |       | 21.96 | 103.9 | 64.29 | 423.3 | 876  | 57.7  | 9.4  | 600  | 2.42  | 53.6  | 5.2  | 64.0 | 4.7  | 71.7  | 7.25  | 6.77  | 5.16  | 85   | 0.92  |
| STD DS7             | Standard   |       | 20.29 | 99.84 | 66.03 | 401.5 | 809  | 54.3  | 9.3  | 580  | 2.32  | 48.1  | 4.9  | 56.8 | 4.5  | 65.9  | 6.67  | 6.16  | 4.69  | 83   | 0.92  |
| STD DS7             | Standard   |       | 20.34 | 104.0 | 61.30 | 392.3 | 883  | 54.1  | 9.2  | 582  | 2.33  | 48.5  | 4.9  | 84.7 | 4.6  | 62.8  | 6.30  | 5.13  | 3.74  | 83   | 0.93  |
| STD DS7             | Standard   |       | 20.50 | 97.41 | 67.47 | 384.7 | 775  | 57.5  | 9.9  | 633  | 2.32  | 51.7  | 5.0  | 67.8 | 4.5  | 65.3  | 6.35  | 6.28  | 4.69  | 82   | 0.92  |
| STD DS7             | Standard   |       | 20.27 | 107.0 | 62.52 | 405.3 | 872  | 56.7  | 9.2  | 584  | 2.33  | 50.7  | 5.1  | 72.8 | 4.5  | 67.8  | 6.68  | 6.47  | 4.79  | 82   | 0.85  |
| STD DS7 Expected    |            |       | 20.92 | 109   | 70.6  | 411   | 890  | 56    | 9.7  | 627  | 2.39  | 48.2  | 4.9  | 70   | 4.4  | 68.7  | 6.38  | 5.86  | 4.51  | 86   | 0.93  |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | 14   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1  | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| Prep Wash           |            |       |       |       |       |       |      |       |      |      |       |       |      |      |      |       |       |       |       |      |       |
| G1                  | Prep Blank | <0.01 | 0.51  | 1.79  | 3.65  | 49.3  | 21   | 15.8  | 6.7  | 563  | 1.91  | 24.7  | 2.8  | <0.2 | 5.3  | 62.3  | 0.02  | 0.09  | 0.14  | 35   | 0.54  |
| G1                  | Prep Blank | <0.01 | 0.47  | 1.63  | 3.19  | 46.4  | 15   | 4.2   | 4.4  | 545  | 1.85  | 0.4   | 2.8  | <0.2 | 5.1  | 56.2  | <0.01 | 0.03  | 0.09  | 34   | 0.50  |



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 2 of 2 **Part** 2

**QUALITY CONTROL REPORT**

**VAN08003302.1**

|                            |            | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|----------------------------|------------|--------|------|-------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|
|                            |            | P      | La   | Cr    | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |
|                            |            | %      | ppm  | ppm   | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |
|                            |            | 0.001  | 0.5  | 0.5   | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |
| DUP 12437                  | QC         | 0.086  | 7.0  | 30.3  | 1.28  | 92.8  | 0.045  | <1   | 1.93  | 0.070  | 0.40  | <0.1 | 8.7  | 0.14  | 0.20  | <5   | 0.3  | 0.06  | 7.4  |
| 12472                      | Drill Core | 0.059  | 3.5  | 18.2  | 1.49  | 112.0 | 0.006  | <1   | 0.62  | 0.006  | 0.02  | 0.3  | 3.1  | <0.02 | 0.57  | 10   | 0.8  | 0.10  | 2.2  |
| DUP 12472                  | QC         | 0.061  | 3.5  | 17.4  | 1.50  | 126.3 | 0.006  | <1   | 0.63  | 0.006  | 0.02  | 0.5  | 3.0  | <0.02 | 0.55  | 8    | 0.8  | 0.10  | 2.1  |
| 12507                      | Drill Core | 0.094  | 9.4  | 103.9 | 1.18  | 22.4  | 0.128  | 1    | 1.35  | 0.055  | 0.11  | 0.9  | 8.5  | 0.12  | 0.98  | 17   | 1.1  | 0.18  | 6.8  |
| DUP 12507                  | QC         | 0.091  | 9.1  | 101.5 | 1.16  | 21.7  | 0.123  | 2    | 1.32  | 0.053  | 0.11  | 0.8  | 8.3  | 0.11  | 0.93  | 20   | 1.0  | 0.17  | 6.5  |
| 12542                      | Drill Core | 0.083  | 6.0  | 25.8  | 1.17  | 195.1 | 0.032  | 2    | 1.62  | 0.020  | 0.20  | 1.2  | 7.3  | 0.07  | 2.23  | 36   | 1.2  | 0.04  | 5.0  |
| DUP 12542                  | QC         | 0.089  | 6.2  | 28.8  | 1.19  | 183.5 | 0.041  | 2    | 1.76  | 0.021  | 0.22  | 1.5  | 8.0  | 0.07  | 2.28  | 37   | 1.1  | <0.02 | 5.4  |
| <b>Reference Materials</b> |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| STD DS7                    | Standard   | 0.084  | 14.3 | 211.5 | 1.07  | 415.6 | 0.124  | 42   | 1.01  | 0.097  | 0.45  | 4.1  | 2.7  | 4.50  | 0.20  | 226  | 3.6  | 1.06  | 4.8  |
| STD DS7                    | Standard   | 0.089  | 12.2 | 194.0 | 1.04  | 405.1 | 0.103  | 44   | 1.03  | 0.097  | 0.48  | 4.3  | 2.8  | 4.72  | 0.20  | 236  | 3.8  | 1.57  | 5.1  |
| STD DS7                    | Standard   | 0.085  | 14.5 | 212.4 | 1.02  | 387.4 | 0.116  | 41   | 1.00  | 0.093  | 0.45  | 3.8  | 2.9  | 4.20  | 0.20  | 197  | 3.4  | 1.35  | 4.6  |
| STD DS7                    | Standard   | 0.088  | 12.7 | 203.0 | 1.04  | 410.0 | 0.110  | 46   | 0.98  | 0.093  | 0.46  | 4.1  | 2.7  | 4.60  | 0.20  | 216  | 3.7  | 1.42  | 4.8  |
| STD DS7                    | Standard   | 0.087  | 12.8 | 198.5 | 1.00  | 364.1 | 0.107  | 44   | 1.00  | 0.095  | 0.42  | 4.0  | 2.6  | 4.24  | 0.22  | 197  | 3.4  | 1.29  | 4.6  |
| STD DS7                    | Standard   | 0.072  | 10.6 | 196.7 | 1.00  | 345.7 | 0.105  | 41   | 0.95  | 0.091  | 0.41  | 3.8  | 2.6  | 4.07  | 0.19  | 211  | 3.0  | 1.38  | 4.6  |
| STD DS7                    | Standard   | 0.082  | 12.2 | 202.9 | 1.03  | 390.0 | 0.112  | 39   | 0.94  | 0.087  | 0.43  | 4.1  | 2.5  | 4.14  | 0.19  | 174  | 3.6  | 1.31  | 4.5  |
| STD DS7                    | Standard   | 0.078  | 11.7 | 184.6 | 1.00  | 374.2 | 0.106  | 44   | 0.90  | 0.084  | 0.43  | 4.0  | 2.3  | 4.25  | 0.19  | 219  | 3.7  | 1.25  | 4.5  |
| STD DS7 Expected           |            | 0.08   | 12.7 | 163   | 1.05  | 370.3 | 0.124  | 38.6 | 0.959 | 0.073  | 0.44  | 3.8  | 2.5  | 4.19  | 0.21  | 200  | 3.5  | 1.08  | 4.6  |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| BLK                        | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| <b>Prep Wash</b>           |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| G1                         | Prep Blank | 0.079  | 8.4  | 12.3  | 0.60  | 231.8 | 0.137  | <1   | 1.13  | 0.083  | 0.57  | <0.1 | 2.2  | 0.40  | <0.02 | <5   | <0.1 | <0.02 | 5.2  |
| G1                         | Prep Blank | 0.082  | 7.6  | 14.2  | 0.59  | 221.3 | 0.127  | <1   | 0.94  | 0.062  | 0.52  | <0.1 | 2.1  | 0.38  | <0.02 | <5   | <0.1 | <0.02 | 4.8  |



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Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

November 14, 2007

Report Date:

February 06, 2008

Page:

1 of 2

## CERTIFICATE OF ANALYSIS

VAN08003302A.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID:  
P.O. Number ddh1-6  
Number of Samples: 5

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                                      | Test Wgt (g) | Report Status |
|-------------|-------------------|-------------------------------------------------------|--------------|---------------|
| R150        | 4                 | Crush split and pulverize drill core to 150mesh       |              |               |
| 1F          | 5                 | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 30           | Completed     |

### SAMPLE DISPOSAL

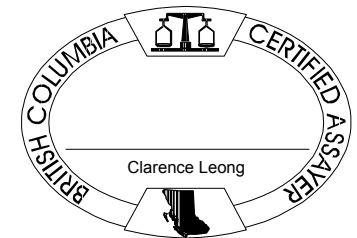
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kettle River Resources Ltd.  
Box 130  
Greenwood B.C. V0H 1J0  
Canada

CC: Linda Caron



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.



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Project: 41

Report Date: February 06, 2008

Page: 2 of 2 Part 1

**CERTIFICATE OF ANALYSIS**

**VAN08003302A.**

| Method  | WGHT       | 1F30 | 1F30 | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|------|-------|-------|--------|---------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu   | Pb    | Zn    | Ag     | Ni      | Co   | Mn   | Fe   | As   | U    | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm  | ppm   | ppm   | ppb    | ppm     | ppm  | ppm  | %    | ppm  | ppm  | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01 | 0.01  | 0.1   | 2      | 0.1     | 0.1  | 1    | 0.01 | 0.1  | 0.1  | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 12527   | Drill Core | 2.80 | 3.40 | 2.35  | 16.51 | 68.1   | 328     | 5.6  | 1.5  | 1298 | 1.04 | 39.1 | 2.4  | 5.4   | 0.2  | 720.9 | 0.63  | 0.35  | <0.02 | 22   | 25.92 |
| 12528   | Drill Core | 7.00 | 4.18 | 3.76  | 19.55 | 63.8   | 184     | 0.5  | 1.5  | 476  | 2.30 | 13.0 | 1.6  | 17.9  | 13.7 | 91.6  | 0.10  | 0.20  | 0.14  | 11   | 1.36  |
| 12529   | Drill Core | 4.00 | 7.65 | 4.04  | 24.18 | 40.4   | 400     | 9.6  | 3.6  | 1445 | 1.73 | 22.0 | 3.6  | 20.4  | 0.8  | 961.7 | 0.39  | 0.25  | 0.03  | 43   | 30.56 |
| 12530   | Rock Pulp  |      | 7.02 | 469.8 | 9672  | >10000 | >100000 | 26.0 | 11.9 | 1272 | 7.70 | 4342 | 1.9  | 148.9 | 1.3  | 75.3  | 156.3 | 96.06 | 0.15  | 34   | 1.34  |
| 12531   | Drill Core | 3.90 | 4.73 | 3.89  | 29.45 | 72.6   | 295     | 0.4  | 1.7  | 454  | 2.38 | 29.4 | 2.0  | 24.1  | 15.6 | 66.2  | 0.18  | 0.29  | 0.16  | 13   | 0.96  |



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Project: 41

Report Date: February 06, 2008

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN08003302A.

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|-------|------|-------|-------|-------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B     | Al   | Na    | K     | W     | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm   | %    | %     | %     | ppm   | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1     | 0.01 | 0.001 | 0.01  | 0.1   | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 12527   | Drill Core | 0.035 | 3.5  | 10.6 | 0.68 | 39.7  | 0.002 | <1   | 0.45  | 0.002 | <0.01 | 11.4 | 1.9  | <0.02 | 0.53 | 46   | 0.3  | 0.16  | 1.9  |
| 12528   | Drill Core | 0.048 | 71.5 | 2.3  | 0.61 | 34.5  | 0.003 | <1   | 1.03  | 0.037 | 0.09  | <0.1 | 1.7  | <0.02 | 0.16 | <5   | 0.1  | <0.02 | 8.4  |
| 12529   | Drill Core | 0.057 | 7.3  | 21.0 | 1.18 | 23.2  | 0.006 | <1   | 1.01  | 0.003 | 0.03  | 0.2  | 3.3  | <0.02 | 0.37 | <5   | 0.5  | 0.17  | 3.5  |
| 12530   | Rock Pulp  | 0.052 | 4.5  | 25.4 | 0.48 | 31.4  | 0.044 | <1   | 1.01  | 0.057 | 0.14  | 0.9  | 2.6  | 0.58  | 6.14 | 782  | 21.9 | 0.06  | 3.4  |
| 12531   | Drill Core | 0.050 | 78.1 | 1.5  | 0.62 | 29.7  | 0.004 | <1   | 0.97  | 0.045 | 0.07  | <0.1 | 1.8  | <0.02 | 0.17 | <5   | 0.1  | 0.04  | 10.0 |



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**Project:** 41

**Report Date:** February 06, 2008

**Page:** 1 of 1 **Part** 1

**QUALITY CONTROL REPORT**

**VAN08003302A.**

| Method              | WGHT       | 1F30  | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 |       |
|---------------------|------------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|------|-------|
| Analyte             | Wgt        | Mo    | Cu    | Pb    | Zn    | Ag    | Ni   | Co   | Mn   | Fe   | As    | U    | Au   | Th   | Sr   | Cd   | Sb    | Bi    | V     | Ca   |       |
| Unit                | kg         | ppm   | ppm   | ppm   | ppm   | ppb   | ppm  | ppm  | ppm  | %    | ppm   | ppm  | ppb  | ppm  | ppm  | ppm  | ppm   | ppm   | ppm   | %    |       |
| MDL                 | 0.01       | 0.01  | 0.01  | 0.01  | 0.1   | 2     | 0.1  | 0.1  | 1    | 0.01 | 0.1   | 0.1  | 0.2  | 0.1  | 0.5  | 0.01 | 0.02  | 0.02  | 2     | 0.01 |       |
| Pulp Duplicates     |            |       |       |       |       |       |      |      |      |      |       |      |      |      |      |      |       |       |       |      |       |
| 12531               | Drill Core | 3.90  | 4.73  | 3.89  | 29.45 | 72.6  | 295  | 0.4  | 1.7  | 454  | 2.38  | 29.4 | 2.0  | 24.1 | 15.6 | 66.2 | 0.18  | 0.29  | 0.16  | 13   | 0.96  |
| REP 12531           | QC         |       | 4.86  | 3.97  | 29.09 | 70.1  | 294  | 0.3  | 1.7  | 461  | 2.48  | 29.6 | 2.2  | 32.0 | 16.6 | 68.8 | 0.18  | 0.29  | 0.17  | 14   | 1.01  |
| Reference Materials |            |       |       |       |       |       |      |      |      |      |       |      |      |      |      |      |       |       |       |      |       |
| STD DS7             | Standard   |       | 20.44 | 102.6 | 66.26 | 399.1 | 798  | 57.2 | 8.9  | 619  | 2.40  | 52.2 | 4.9  | 79.8 | 4.7  | 78.0 | 6.25  | 5.86  | 4.69  | 85   | 0.97  |
| STD DS7 Expected    |            |       | 20.92 | 109   | 70.6  | 411   | 890  | 56   | 9.7  | 627  | 2.39  | 48.2 | 4.9  | 70   | 4.4  | 68.7 | 6.38  | 5.86  | 4.51  | 86   | 0.93  |
| BLK                 | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| Prep Wash           |            |       |       |       |       |       |      |      |      |      |       |      |      |      |      |      |       |       |       |      |       |
| G1                  | Prep Blank | <0.01 | 0.28  | 2.22  | 2.83  | 45.9  | 22   | 4.2  | 4.1  | 518  | 1.75  | 0.2  | 2.5  | <0.2 | 4.1  | 50.9 | 0.02  | <0.02 | 0.05  | 33   | 0.45  |
| G1                  | Prep Blank | <0.01 | 0.30  | 2.17  | 2.57  | 45.9  | 17   | 3.9  | 4.0  | 528  | 1.77  | 0.3  | 2.4  | <0.2 | 4.2  | 50.6 | 0.01  | <0.02 | 0.04  | 34   | 0.43  |

**QUALITY CONTROL REPORT**

**VAN08003302A.**

| Method              |            | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------------------|------------|--------|------|-------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|
| Analyte             |            | P      | La   | Cr    | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |
| Unit                |            | %      | ppm  | ppm   | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |
| MDL                 |            | 0.001  | 0.5  | 0.5   | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |
| Pulp Duplicates     |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| 12531               | Drill Core | 0.050  | 78.1 | 1.5   | 0.62  | 29.7  | 0.004  | <1   | 0.97  | 0.045  | 0.07  | <0.1 | 1.8  | <0.02 | 0.17  | <5   | 0.1  | 0.04  | 10.0 |
| REP 12531           | QC         | 0.052  | 81.1 | 1.6   | 0.63  | 30.6  | 0.004  | <1   | 1.04  | 0.045  | 0.08  | <0.1 | 2.0  | <0.02 | 0.29  | <5   | 0.2  | <0.02 | 10.0 |
| Reference Materials |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| STD DS7             | Standard   | 0.078  | 13.9 | 208.8 | 1.05  | 397.4 | 0.124  | 38   | 1.03  | 0.099  | 0.46  | 3.7  | 2.9  | 4.45  | 0.20  | 184  | 3.8  | 1.36  | 4.8  |
| STD DS7 Expected    |            | 0.08   | 12.7 | 163   | 1.05  | 370.3 | 0.124  | 38.6 | 0.959 | 0.073  | 0.44  | 3.8  | 2.5  | 4.19  | 0.21  | 200  | 3.5  | 1.08  | 4.6  |
| BLK                 | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |
| Prep Wash           |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| G1                  | Prep Blank | 0.078  | 6.2  | 7.4   | 0.57  | 213.1 | 0.111  | <1   | 0.88  | 0.052  | 0.50  | 0.1  | 2.0  | 0.31  | <0.02 | <5   | <0.1 | <0.02 | 4.3  |
| G1                  | Prep Blank | 0.083  | 5.9  | 8.1   | 0.58  | 224.6 | 0.113  | <1   | 0.89  | 0.048  | 0.50  | <0.1 | 2.0  | 0.34  | <0.02 | <5   | <0.1 | <0.02 | 4.3  |



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Submitted By:

Ellen Clements

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

November 26, 2007

Report Date:

February 06, 2008

Page:

1 of 5

## CERTIFICATE OF ANALYSIS

VAN08003343.1

### CLIENT JOB INFORMATION

Project: 41  
Shipment ID: Nov 22/07  
P.O. Number: ddh9-10  
Number of Samples: 120

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description                                      | Test Wgt (g) | Report Status |
|-------------|-------------------|-------------------------------------------------------|--------------|---------------|
| R150        | 115               | Crush split and pulverize drill core to 150mesh       |              |               |
| 1F          | 120               | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 30           | Completed     |

### SAMPLE DISPOSAL

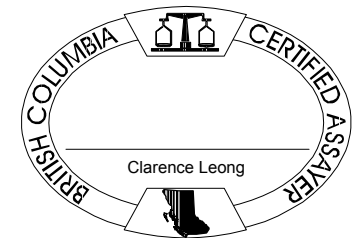
DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

### ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kettle River Resources Ltd.  
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Canada

CC: Linda Caron



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.





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Project: 41

Report Date: February 06, 2008

Page: 2 of 5 Part 1

# CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30   | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|--------|------|-------|------|-------|-------|-------|------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U      | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V    | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm    | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm  | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1    | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01 |       |
| 13802   | Drill Core | 1.00 | 0.62  | 12.37 | 17.10 | 58.3   | 88      | 3.0   | 5.3  | 631  | 2.49 | 1.9    | 1.3  | 1.8   | 10.1 | 86.3  | 0.12  | 0.26  | 0.13 | 33   | 1.40  |
| 13803   | Drill Core | 0.20 | 1.15  | 11.90 | 9.03  | 23.4   | 92      | 5.1   | 1.6  | 170  | 0.96 | 10.1   | 0.6  | 5.3   | 3.4  | 15.9  | 0.07  | 0.46  | 0.11 | 16   | 0.17  |
| 13804   | Drill Core | 1.10 | 1.25  | 11.97 | 16.17 | 62.4   | 116     | 4.9   | 5.8  | 654  | 2.52 | 2.1    | 1.5  | 1.4   | 8.9  | 101.7 | 0.13  | 0.23  | 0.12 | 35   | 1.69  |
| 13805   | Drill Core | 4.30 | 5.12  | 16.50 | 10.57 | 54.9   | 106     | 1.2   | 2.3  | 449  | 2.35 | 4.8    | 1.6  | 1.6   | 18.0 | 65.3  | 0.05  | 0.18  | 0.17 | 9    | 1.07  |
| 13806   | Drill Core | 4.60 | 4.06  | 4.15  | 30.47 | 74.5   | 103     | 0.3   | 1.6  | 476  | 2.32 | 1.3    | 2.6  | 1.1   | 18.5 | 59.2  | 0.21  | 0.22  | 0.14 | 6    | 0.89  |
| 13807   | Drill Core | 2.60 | 3.95  | 4.32  | 25.62 | 62.4   | 77      | 0.7   | 1.6  | 470  | 2.22 | 2.2    | 2.0  | 0.8   | 18.4 | 145.6 | 0.13  | 0.20  | 0.13 | 5    | 1.71  |
| 13808   | Drill Core | 1.40 | 4.42  | 12.67 | 33.33 | 69.4   | 231     | 1.7   | 2.1  | 226  | 2.62 | 4.6    | 1.9  | 3.8   | 19.7 | 205.8 | 0.16  | 0.30  | 0.10 | 6    | 0.42  |
| 13809   | Drill Core | 2.20 | 7.63  | 27.53 | 16.84 | 54.5   | 230     | 21.9  | 8.5  | 1362 | 3.04 | 6.5    | 1.1  | 3.1   | 9.9  | 310.0 | 0.14  | 0.35  | 0.06 | 38   | 4.84  |
| 13810   | Rock       | 1.30 | 4.59  | 2.23  | 20.06 | 61.4   | 45      | 0.7   | 1.7  | 579  | 2.25 | 12.3   | 2.8  | 0.8   | 17.1 | 32.5  | 0.09  | 0.30  | 0.03 | 7    | 0.66  |
| 13811   | Drill Core | 3.00 | 4.57  | 19.20 | 10.88 | 56.6   | 499     | 30.3  | 10.3 | 1640 | 3.19 | 20.4   | 0.4  | 4.7   | 3.5  | 344.9 | 0.10  | 0.33  | 0.31 | 49   | 6.24  |
| 13812   | Drill Core | 3.50 | 4.31  | 40.78 | 6.51  | 70.3   | 158     | 48.9  | 14.8 | 1343 | 3.05 | 66.4   | 0.4  | 11.0  | 2.8  | 311.2 | 0.17  | 0.51  | 0.84 | 57   | 6.37  |
| 13813   | Drill Core | 4.00 | 10.42 | 31.45 | 10.98 | 70.3   | 168     | 53.9  | 16.1 | 1265 | 2.81 | 43.4   | 0.4  | 31.8  | 3.1  | 294.0 | 0.21  | 0.32  | 0.93 | 69   | 5.76  |
| 13814   | Drill Core | 4.20 | 7.50  | 49.81 | 17.89 | 63.8   | 111     | 68.6  | 16.6 | 952  | 3.71 | 7.6    | 1.4  | 4.2   | 8.0  | 339.9 | 0.10  | 0.27  | 0.08 | 86   | 5.29  |
| 13815   | Drill Core | 5.50 | 14.18 | 34.80 | 6.40  | 46.5   | 210     | 53.5  | 13.8 | 601  | 2.93 | 48.1   | 0.5  | 6.6   | 2.0  | 266.3 | 0.41  | 1.33  | 0.57 | 70   | 10.94 |
| 13816   | Drill Core | 7.00 | 9.90  | 31.76 | 7.03  | 34.6   | 186     | 43.2  | 13.4 | 576  | 2.71 | 38.5   | 0.4  | 3.5   | 1.6  | 259.4 | 0.16  | 1.34  | 0.51 | 63   | 11.56 |
| 13817   | Drill Core | 6.60 | 23.36 | 42.59 | 8.27  | 42.6   | 235     | 79.4  | 17.3 | 509  | 3.08 | 65.4   | 0.4  | 3.4   | 2.6  | 273.3 | 0.09  | 2.43  | 0.43 | 61   | 4.61  |
| 13818   | Drill Core | 7.30 | 16.88 | 45.89 | 5.18  | 38.8   | 208     | 90.8  | 17.1 | 426  | 3.16 | 44.9   | 0.6  | 14.3  | 2.8  | 170.2 | 0.14  | 1.95  | 0.57 | 96   | 5.29  |
| 13819   | Drill Core | 7.00 | 22.06 | 49.66 | 4.97  | 40.5   | 176     | 92.5  | 17.6 | 468  | 2.84 | 47.8   | 0.6  | 4.1   | 2.6  | 145.2 | 0.37  | 1.59  | 0.65 | 54   | 7.17  |
| 13820   | Rock Pulp  |      | 6.60  | 434.9 | 8652  | >10000 | >100000 | 23.9  | 11.3 | 1154 | 6.82 | 3985   | 1.7  | 158.8 | 1.2  | 65.4  | 136.2 | 82.55 | 0.14 | 30   | 1.28  |
| 13821   | Drill Core | 6.90 | 12.82 | 27.50 | 4.24  | 33.7   | 133     | 102.6 | 19.3 | 709  | 2.20 | 182.8  | 0.6  | 7.0   | 3.3  | 145.5 | 0.10  | 1.55  | 0.78 | 72   | 3.53  |
| 13822   | Drill Core | 6.00 | 15.90 | 17.61 | 6.71  | 65.4   | 119     | 112.4 | 23.8 | 858  | 2.05 | 223.4  | 0.5  | 7.0   | 2.8  | 148.2 | 0.30  | 2.20  | 1.18 | 75   | 4.98  |
| 13823   | Drill Core | 6.30 | 23.07 | 33.80 | 5.61  | 46.1   | 129     | 110.4 | 21.2 | 611  | 1.74 | 700.4  | 0.6  | 5.3   | 2.5  | 91.1  | 0.25  | 9.46  | 2.80 | 70   | 4.08  |
| 13824   | Drill Core | 7.00 | 10.47 | 83.94 | 5.13  | 25.6   | 143     | 101.9 | 15.7 | 430  | 1.94 | 73.8   | 0.6  | 1.2   | 2.8  | 98.6  | 0.20  | 0.93  | 1.71 | 41   | 4.73  |
| 13825   | Drill Core | 6.70 | 9.15  | 41.02 | 2.99  | 11.7   | 78      | 83.9  | 17.6 | 316  | 1.35 | 146.4  | 0.5  | 0.9   | 3.3  | 73.6  | 0.05  | 0.74  | 1.45 | 43   | 1.87  |
| 13826   | Drill Core | 6.80 | 10.68 | 53.90 | 4.30  | 24.6   | 203     | 69.6  | 14.6 | 447  | 1.51 | 133.0  | 0.7  | 2.3   | 1.8  | 125.8 | 0.12  | 1.82  | 0.78 | 76   | 5.19  |
| 13827   | Drill Core | 5.20 | 10.66 | 53.86 | 7.72  | 36.1   | 301     | 81.7  | 17.1 | 556  | 2.42 | 77.4   | 0.9  | 7.0   | 1.8  | 132.2 | 0.27  | 1.80  | 1.79 | 81   | 8.16  |
| 13828   | Drill Core | 0.20 | 12.27 | 26.96 | 56.45 | 105.0  | 1502    | 45.7  | 9.5  | 2208 | 4.21 | >10000 | 1.4  | 44.9  | 1.1  | 437.9 | 0.81  | 80.67 | 0.75 | 84   | 16.08 |
| 13829   | Drill Core | 6.50 | 8.68  | 46.85 | 6.60  | 32.5   | 324     | 62.7  | 14.4 | 413  | 2.25 | 60.9   | 0.8  | 3.9   | 1.8  | 139.7 | 0.70  | 3.16  | 0.47 | 47   | 8.12  |
| 13830   | Rock       | 0.70 | 4.30  | 5.35  | 30.87 | 62.4   | 93      | 1.1   | 1.8  | 621  | 2.19 | 53.2   | 2.3  | 5.8   | 18.0 | 47.3  | 0.10  | 0.49  | 0.19 | 9    | 0.87  |
| 13831   | Drill Core | 6.30 | 1.73  | 8.46  | 2.22  | 12.9   | 46      | 11.7  | 3.9  | 272  | 0.74 | 5.9    | 0.7  | 1.8   | 0.4  | 357.8 | 0.27  | 0.27  | 0.05 | 20   | 21.63 |



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Project: 41

Report Date: February 06, 2008

Page: 2 of 5 Part 2

# CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|--------|------|-------|-------|------|------|------|-------|-------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg    | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb   | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5     | 0.1  | 0.02 | 0.1   |      |
| 13802   | Drill Core | 0.084 | 52.8 | 5.6  | 0.49 | 44.9  | 0.040  | <1   | 0.81  | 0.046 | 0.13 | 0.2  | 1.3  | 0.04  | <0.02 | 20   | 0.2  | <0.02 | 6.9  |
| 13803   | Drill Core | 0.019 | 13.5 | 15.3 | 0.30 | 47.2  | 0.023  | <1   | 0.45  | 0.011 | 0.18 | 0.1  | 0.9  | 0.08  | 0.03  | 35   | 0.9  | 0.10  | 2.4  |
| 13804   | Drill Core | 0.089 | 49.4 | 11.9 | 0.53 | 58.2  | 0.036  | <1   | 0.87  | 0.045 | 0.13 | 0.1  | 1.6  | 0.03  | 0.04  | 14   | 0.1  | <0.02 | 7.7  |
| 13805   | Drill Core | 0.047 | 64.5 | 3.1  | 0.42 | 19.5  | 0.004  | <1   | 0.94  | 0.042 | 0.12 | <0.1 | 1.4  | 0.03  | 0.11  | 10   | 0.2  | 0.02  | 6.5  |
| 13806   | Drill Core | 0.049 | 64.1 | 1.6  | 0.32 | 18.2  | 0.007  | <1   | 0.85  | 0.055 | 0.13 | <0.1 | 1.1  | 0.03  | 0.03  | 6    | 0.1  | <0.02 | 4.4  |
| 13807   | Drill Core | 0.044 | 61.8 | 0.8  | 0.50 | 24.8  | 0.002  | <1   | 1.13  | 0.017 | 0.13 | <0.1 | 1.2  | 0.03  | 0.07  | 18   | <0.1 | <0.02 | 3.8  |
| 13808   | Drill Core | 0.050 | 59.9 | 0.9  | 0.89 | 30.4  | <0.001 | <1   | 1.72  | 0.004 | 0.14 | <0.1 | 1.3  | 0.04  | 0.19  | 8    | 0.2  | <0.02 | 4.2  |
| 13809   | Drill Core | 0.117 | 44.0 | 25.8 | 1.69 | 14.0  | <0.001 | <1   | 2.34  | 0.003 | 0.11 | <0.1 | 4.4  | <0.02 | 0.11  | 12   | 0.2  | 0.05  | 5.1  |
| 13810   | Rock       | 0.045 | 73.8 | 1.5  | 0.18 | 20.3  | 0.006  | <1   | 0.23  | 0.038 | 0.11 | <0.1 | 1.3  | <0.02 | 0.07  | 9    | 0.2  | <0.02 | 1.8  |
| 13811   | Drill Core | 0.085 | 21.3 | 39.2 | 1.78 | 11.7  | <0.001 | <1   | 2.36  | 0.002 | 0.07 | 0.3  | 6.1  | <0.02 | 0.15  | 7    | 0.3  | 0.05  | 4.7  |
| 13812   | Drill Core | 0.078 | 17.1 | 46.8 | 1.46 | 19.8  | 0.004  | <1   | 2.13  | 0.005 | 0.08 | <0.1 | 10.1 | 0.03  | 0.17  | <5   | 0.5  | 0.05  | 5.1  |
| 13813   | Drill Core | 0.087 | 19.6 | 58.0 | 0.99 | 18.9  | 0.009  | 1    | 1.70  | 0.004 | 0.07 | <0.1 | 8.6  | <0.02 | 0.18  | 9    | 0.2  | 0.06  | 4.8  |
| 13814   | Drill Core | 0.232 | 54.8 | 95.3 | 1.48 | 173.8 | 0.037  | <1   | 2.45  | 0.009 | 0.17 | <0.1 | 5.5  | 0.02  | 0.10  | 5    | 0.3  | 0.07  | 7.4  |
| 13815   | Drill Core | 0.079 | 10.4 | 59.2 | 1.00 | 58.4  | 0.040  | 1    | 1.23  | 0.069 | 0.05 | 0.2  | 6.0  | 0.07  | 1.18  | 8    | 1.4  | 0.15  | 5.0  |
| 13816   | Drill Core | 0.074 | 8.2  | 49.4 | 0.85 | 41.5  | 0.053  | <1   | 1.45  | 0.103 | 0.05 | 0.2  | 6.6  | 0.07  | 1.11  | 8    | 0.8  | 0.11  | 4.6  |
| 13817   | Drill Core | 0.075 | 9.9  | 49.8 | 0.74 | 55.8  | 0.036  | 1    | 1.63  | 0.086 | 0.11 | 0.3  | 8.2  | 0.09  | 1.08  | <5   | 1.0  | 0.11  | 4.3  |
| 13818   | Drill Core | 0.100 | 8.6  | 62.9 | 1.03 | 43.5  | 0.115  | 3    | 1.94  | 0.207 | 0.12 | 0.5  | 6.7  | 0.10  | 1.44  | <5   | 1.5  | 0.06  | 6.3  |
| 13819   | Drill Core | 0.106 | 8.2  | 48.8 | 0.90 | 22.0  | 0.114  | 2    | 1.56  | 0.152 | 0.13 | 0.5  | 4.4  | 0.13  | 1.24  | <5   | 1.2  | 0.04  | 5.5  |
| 13820   | Rock Pulp  | 0.041 | 4.1  | 23.6 | 0.45 | 29.3  | 0.041  | 3    | 0.87  | 0.049 | 0.12 | 0.9  | 2.4  | 0.59  | 5.47  | 773  | 18.5 | 0.04  | 3.1  |
| 13821   | Drill Core | 0.090 | 10.6 | 67.1 | 0.95 | 22.5  | 0.144  | 1    | 1.36  | 0.145 | 0.10 | 0.4  | 5.4  | 0.07  | 0.49  | <5   | 0.6  | <0.02 | 5.3  |
| 13822   | Drill Core | 0.093 | 9.4  | 72.3 | 0.84 | 17.5  | 0.104  | 2    | 1.32  | 0.106 | 0.09 | 0.5  | 6.1  | 0.04  | 0.30  | <5   | 0.5  | 0.03  | 5.2  |
| 13823   | Drill Core | 0.096 | 9.6  | 53.3 | 0.55 | 16.4  | 0.126  | 2    | 0.75  | 0.067 | 0.10 | 0.6  | 4.2  | 0.02  | 0.63  | <5   | 0.9  | <0.02 | 3.6  |
| 13824   | Drill Core | 0.102 | 7.4  | 34.2 | 0.43 | 15.1  | 0.128  | 2    | 1.03  | 0.134 | 0.06 | 0.5  | 2.7  | 0.02  | 0.84  | <5   | 1.2  | 0.03  | 3.9  |
| 13825   | Drill Core | 0.091 | 8.4  | 34.5 | 0.49 | 23.0  | 0.139  | 2    | 0.65  | 0.083 | 0.10 | 0.4  | 2.8  | 0.04  | 0.39  | <5   | 0.9  | <0.02 | 3.2  |
| 13826   | Drill Core | 0.097 | 6.6  | 41.8 | 0.54 | 17.2  | 0.163  | 2    | 0.75  | 0.071 | 0.09 | 0.5  | 3.4  | 0.06  | 0.50  | <5   | 1.2  | 0.07  | 3.3  |
| 13827   | Drill Core | 0.092 | 7.1  | 35.0 | 0.57 | 23.3  | 0.169  | 2    | 0.85  | 0.084 | 0.08 | 0.5  | 3.3  | 0.05  | 1.07  | <5   | 2.1  | 0.10  | 3.6  |
| 13828   | Drill Core | 0.047 | 10.1 | 35.6 | 1.36 | 30.7  | 0.046  | 4    | 1.38  | 0.039 | 0.12 | 0.7  | 5.4  | 0.22  | 1.77  | 25   | 3.0  | 0.21  | 5.6  |
| 13829   | Drill Core | 0.076 | 5.3  | 32.4 | 0.52 | 29.5  | 0.149  | 1    | 1.03  | 0.125 | 0.15 | 0.4  | 2.8  | 0.27  | 1.16  | <5   | 1.8  | 0.07  | 3.7  |
| 13830   | Rock       | 0.047 | 67.3 | 1.2  | 0.10 | 19.3  | 0.003  | <1   | 0.30  | 0.034 | 0.11 | <0.1 | 1.2  | 0.03  | 0.05  | <5   | 0.2  | <0.02 | 1.8  |
| 13831   | Drill Core | 0.041 | 2.4  | 16.4 | 0.35 | 8.2   | 0.022  | <1   | 0.31  | 0.009 | 0.02 | <0.1 | 2.3  | <0.02 | 0.16  | <5   | 0.4  | <0.02 | 1.5  |



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Project: 41

Report Date: February 06, 2008

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**CERTIFICATE OF ANALYSIS**

**VAN08003343.1**

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co   | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm  | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1  | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 13832   | Drill Core | 6.20 | 1.40  | 5.41  | 4.55  | 14.5   | 107     | 7.0  | 2.2  | 237  | 0.51 | 31.6  | 0.7  | 1.3   | 0.3  | 407.8 | 0.39  | 0.21  | 0.04  | 13   | 24.58 |
| 13833   | Drill Core | 4.40 | 2.24  | 21.14 | 10.79 | 30.5   | 283     | 34.4 | 7.9  | 496  | 1.03 | 12.9  | 0.9  | 1.6   | 0.8  | 366.4 | 0.50  | 0.44  | 0.08  | 62   | 21.03 |
| 13834   | Drill Core | 5.80 | 4.22  | 71.27 | 4.21  | 21.6   | 251     | 6.9  | 4.2  | 753  | 0.78 | 6.3   | 1.2  | 4.8   | 0.3  | 526.5 | 0.46  | 0.53  | 0.11  | 32   | 23.25 |
| 13835   | Drill Core | 4.70 | 3.77  | 6.16  | 2.86  | 11.5   | 18      | 6.5  | 2.2  | 525  | 0.56 | 2.6   | 2.1  | 1.3   | 0.3  | 676.8 | 0.27  | 0.17  | 0.02  | 23   | 29.95 |
| 13836   | Drill Core | 4.70 | 3.06  | 4.90  | 1.14  | 11.4   | 7       | 6.9  | 2.4  | 756  | 0.60 | 1.8   | 2.0  | 1.1   | 0.3  | 735.7 | 0.27  | 0.12  | <0.02 | 26   | 29.52 |
| 13837   | Drill Core | 4.40 | 10.13 | 6.24  | 1.14  | 7.6    | 48      | 3.4  | 1.5  | 1130 | 0.41 | 1.3   | 2.5  | 1.7   | 0.3  | 692.0 | 0.32  | 0.07  | <0.02 | 15   | 29.93 |
| 13838   | Drill Core | 4.80 | 3.73  | 3.75  | 1.26  | 12.8   | 27      | 7.1  | 2.3  | 1146 | 0.64 | 1.7   | 2.6  | 0.9   | 0.3  | 775.3 | 0.29  | 0.14  | 0.02  | 24   | 28.32 |
| 13839   | Drill Core | 2.30 | 3.16  | 2.29  | 1.07  | 9.4    | 7       | 3.9  | 1.5  | 1292 | 0.52 | 1.7   | 2.8  | 1.1   | 0.2  | 953.1 | 0.28  | 0.08  | <0.02 | 20   | 30.96 |
| 13840   | Rock Pulp  |      | 6.52  | 415.4 | 8525  | >10000 | ·100000 | 23.7 | 11.0 | 1132 | 6.63 | 3831  | 1.7  | 167.7 | 1.1  | 64.7  | 149.3 | 90.11 | 0.15  | 29   | 1.29  |
| 13841   | Drill Core | 2.10 | 4.33  | 14.94 | 2.00  | 17.0   | 43      | 5.5  | 2.2  | 1228 | 0.79 | 4.8   | 3.4  | 2.1   | 0.3  | 765.8 | 0.27  | 0.11  | 0.02  | 33   | 30.51 |
| 13842   | Drill Core | 2.40 | 3.65  | 11.16 | 1.06  | 15.1   | 26      | 7.8  | 2.8  | 1192 | 0.76 | 5.7   | 2.9  | 1.5   | 0.3  | 698.9 | 0.22  | 0.07  | 0.03  | 31   | 31.39 |
| 13843   | Drill Core | 2.40 | 6.49  | 10.02 | 1.56  | 14.0   | 48      | 7.5  | 2.5  | 1236 | 0.85 | 10.8  | 3.0  | 3.7   | 0.3  | 751.6 | 0.26  | 0.10  | 0.03  | 33   | 30.65 |
| 13844   | Drill Core | 3.40 | 3.41  | 48.41 | 1.79  | 15.0   | 60      | 5.2  | 2.1  | 1069 | 0.70 | 5.0   | 2.6  | 2.2   | 0.3  | 773.1 | 0.26  | 0.07  | 0.06  | 28   | 31.36 |
| 13845   | Drill Core | 1.30 | 4.49  | 6.81  | 1.08  | 14.6   | 25      | 5.5  | 1.9  | 1060 | 0.70 | 5.7   | 2.4  | 1.3   | 0.3  | 749.3 | 0.24  | 0.07  | <0.02 | 29   | 30.60 |
| 13846   | Drill Core | 2.50 | 2.35  | 9.87  | 1.55  | 19.3   | 124     | 8.4  | 3.4  | 1018 | 0.82 | 10.4  | 2.5  | 3.1   | 0.3  | 732.5 | 0.28  | 0.12  | <0.02 | 33   | 31.50 |
| 13847   | Drill Core | 2.50 | 4.23  | 9.36  | 1.81  | 18.4   | 180     | 9.0  | 5.2  | 973  | 0.97 | 8.9   | 1.2  | 10.4  | 0.3  | 734.3 | 0.31  | 0.11  | 0.03  | 39   | 29.47 |
| 13848   | Drill Core | 3.30 | 1.75  | 6.29  | 3.07  | 18.1   | 525     | 7.0  | 2.6  | 1040 | 0.74 | 10.2  | 1.3  | 6.1   | 0.3  | 703.6 | 0.21  | 0.11  | <0.02 | 26   | 28.50 |
| 13849   | Drill Core | 2.80 | 3.22  | 23.90 | 18.46 | 59.8   | 159     | 5.8  | 7.0  | 674  | 2.74 | 12.4  | 1.3  | 5.1   | 9.4  | 168.6 | 0.10  | 0.30  | 0.12  | 46   | 3.96  |
| 13850   | Rock       | 1.20 | 4.37  | 12.73 | 16.63 | 59.1   | 41      | 0.3  | 1.6  | 557  | 2.09 | 7.3   | 2.6  | 34.1  | 15.8 | 41.0  | 0.09  | 0.19  | 0.05  | 6    | 0.79  |
| 25651   | Drill Core | 7.80 | 9.89  | 42.94 | 2.71  | 30.8   | 90      | 92.8 | 18.6 | 722  | 2.05 | 128.2 | 0.6  | 2.2   | 2.5  | 141.2 | 0.16  | 1.23  | 1.17  | 81   | 3.48  |
| 25652   | Drill Core | 0.40 | 7.99  | 24.03 | 5.17  | 39.5   | 299     | 55.6 | 13.0 | 1848 | 2.94 | 620.2 | 0.9  | 37.6  | 2.4  | 478.6 | 0.10  | 2.58  | 0.52  | 118  | 16.48 |
| 25653   | Drill Core | 6.90 | 8.30  | 61.12 | 5.64  | 41.1   | 206     | 71.1 | 14.7 | 660  | 2.41 | 127.5 | 0.8  | 3.0   | 2.2  | 235.6 | 0.24  | 1.61  | 1.02  | 73   | 12.05 |
| 25654   | Drill Core | 6.60 | 4.38  | 7.40  | 4.36  | 18.0   | 75      | 8.7  | 3.4  | 1147 | 1.07 | 8.8   | 2.0  | 3.4   | 0.9  | 636.8 | 0.24  | 0.15  | 0.06  | 34   | 23.21 |
| 25655   | Drill Core | 7.10 | 2.93  | 3.65  | 1.41  | 10.0   | 13      | 5.4  | 1.8  | 1147 | 0.53 | 5.6   | 3.0  | 0.6   | 0.3  | 720.2 | 0.25  | 0.11  | 0.03  | 17   | 27.99 |
| 25656   | Drill Core | 7.00 | 3.40  | 5.36  | 1.16  | 5.4    | 12      | 2.4  | 1.3  | 1002 | 0.44 | 3.7   | 2.1  | 1.6   | 0.2  | 608.1 | 0.36  | 0.15  | <0.02 | 14   | 29.58 |
| 25657   | Drill Core | 4.30 | 2.70  | 11.07 | 2.47  | 19.5   | 76      | 8.7  | 4.4  | 848  | 1.07 | 18.3  | 1.5  | 2.9   | 0.4  | 655.6 | 0.27  | 0.26  | 0.04  | 47   | 25.92 |
| 25658   | Drill Core | 5.10 | 7.13  | 5.00  | 2.46  | 16.1   | 94      | 7.1  | 3.3  | 1760 | 0.88 | 19.7  | 2.3  | 1.7   | 0.4  | 355.0 | 0.15  | 0.16  | 0.04  | 33   | 29.23 |
| 25659   | Drill Core | 5.80 | 4.37  | 2.29  | 1.70  | 11.1   | 51      | 5.5  | 2.1  | 1699 | 0.51 | 7.4   | 3.2  | 0.9   | 0.3  | 288.8 | 0.13  | 0.15  | <0.02 | 24   | 31.32 |
| 25660   | Rock Pulp  |      | 6.75  | 424.2 | 8886  | >10000 | ·100000 | 23.4 | 11.7 | 1158 | 6.99 | 4011  | 1.7  | 154.9 | 1.2  | 69.5  | 151.0 | 88.21 | 0.14  | 31   | 1.27  |
| 25661   | Drill Core | 4.90 | 1.73  | 23.16 | 9.50  | 47.6   | 2674    | 10.0 | 8.8  | 1181 | 2.33 | 46.7  | 0.7  | 24.2  | 1.2  | 190.6 | 0.10  | 1.14  | 0.23  | 62   | 4.79  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|-------|------|-------|-------|-------|------|------|-------|-------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B     | Al   | Na    | K     | W     | Sc   | Tl   | S     | Hg    | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm   | %    | %     | %     | ppm   | ppm  | ppm  | %     | ppb   | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1     | 0.01 | 0.001 | 0.01  | 0.1   | 0.1  | 0.02 | 0.02  | 5     | 0.1  | 0.02 | 0.1   |      |
| 13832   | Drill Core | 0.034 | 2.0  | 9.9  | 0.31 | 8.0   | 0.014 | <1   | 0.22  | 0.004 | 0.01  | <0.1 | 1.3  | <0.02 | 0.02  | <5   | 0.3  | <0.02 | 1.0  |
| 13833   | Drill Core | 0.078 | 3.6  | 41.8 | 0.82 | 58.4  | 0.045 | 1    | 0.76  | 0.037 | 0.12  | 0.2  | 3.3  | 0.07  | 0.15  | <5   | 1.9  | 0.04  | 2.8  |
| 13834   | Drill Core | 0.060 | 2.1  | 10.7 | 0.70 | 88.1  | 0.051 | 1    | 0.67  | 0.066 | 0.08  | 0.2  | 2.6  | 0.04  | 0.15  | 6    | 0.9  | 0.03  | 2.2  |
| 13835   | Drill Core | 0.052 | 2.3  | 12.0 | 0.83 | 109.5 | 0.038 | <1   | 0.48  | 0.014 | 0.18  | <0.1 | 1.7  | 0.08  | <0.02 | <5   | 0.4  | 0.05  | 1.7  |
| 13836   | Drill Core | 0.053 | 2.4  | 13.2 | 1.34 | 111.6 | 0.036 | <1   | 0.60  | 0.009 | 0.14  | <0.1 | 1.8  | 0.06  | <0.02 | <5   | 0.3  | 0.05  | 2.0  |
| 13837   | Drill Core | 0.046 | 2.3  | 8.3  | 1.08 | 64.8  | 0.021 | <1   | 0.38  | 0.006 | 0.03  | <0.1 | 1.4  | <0.02 | <0.02 | <5   | 0.5  | 0.04  | 1.2  |
| 13838   | Drill Core | 0.047 | 2.7  | 12.2 | 1.31 | 81.5  | 0.016 | <1   | 0.51  | 0.006 | 0.03  | 0.1  | 2.1  | <0.02 | <0.02 | <5   | 0.3  | 0.05  | 1.8  |
| 13839   | Drill Core | 0.038 | 2.8  | 9.0  | 1.26 | 77.6  | 0.013 | <1   | 0.36  | 0.005 | 0.02  | <0.1 | 1.5  | <0.02 | <0.02 | <5   | 0.2  | 0.06  | 1.4  |
| 13840   | Rock Pulp  | 0.045 | 4.0  | 23.7 | 0.38 | 29.9  | 0.035 | 2    | 0.79  | 0.045 | 0.12  | 0.9  | 2.4  | 0.55  | 5.38  | 704  | 19.5 | 0.03  | 3.3  |
| 13841   | Drill Core | 0.057 | 2.8  | 12.2 | 1.59 | 44.7  | 0.019 | 1    | 0.64  | 0.006 | 0.02  | <0.1 | 1.9  | <0.02 | <0.02 | <5   | 0.4  | 0.08  | 2.7  |
| 13842   | Drill Core | 0.047 | 3.0  | 18.6 | 1.26 | 26.6  | 0.008 | <1   | 0.58  | 0.006 | <0.01 | <0.1 | 2.0  | <0.02 | 0.02  | <5   | 0.5  | 0.04  | 2.3  |
| 13843   | Drill Core | 0.057 | 2.8  | 14.2 | 1.18 | 22.3  | 0.005 | <1   | 0.57  | 0.004 | <0.01 | 0.2  | 2.0  | <0.02 | <0.02 | <5   | 0.7  | 0.05  | 2.7  |
| 13844   | Drill Core | 0.054 | 3.3  | 13.1 | 1.06 | 25.9  | 0.006 | <1   | 0.53  | 0.005 | <0.01 | 0.1  | 1.8  | <0.02 | 0.02  | <5   | 0.3  | 0.10  | 2.3  |
| 13845   | Drill Core | 0.052 | 3.1  | 13.2 | 1.19 | 24.8  | 0.008 | <1   | 0.54  | 0.006 | <0.01 | 0.1  | 1.9  | <0.02 | <0.02 | <5   | 0.4  | 0.05  | 2.3  |
| 13846   | Drill Core | 0.067 | 4.2  | 14.7 | 0.98 | 47.4  | 0.004 | <1   | 0.60  | 0.005 | 0.02  | 0.1  | 2.3  | <0.02 | <0.02 | <5   | 0.4  | 0.06  | 2.6  |
| 13847   | Drill Core | 0.060 | 5.1  | 14.2 | 0.74 | 176.2 | 0.004 | <1   | 0.56  | 0.005 | 0.05  | 0.5  | 2.7  | <0.02 | 0.04  | 7    | 0.8  | 0.05  | 2.6  |
| 13848   | Drill Core | 0.051 | 3.8  | 13.6 | 0.72 | 51.6  | 0.003 | <1   | 0.53  | 0.004 | 0.02  | 0.3  | 1.9  | <0.02 | <0.02 | 7    | 0.5  | 0.07  | 2.3  |
| 13849   | Drill Core | 0.122 | 47.4 | 8.8  | 0.83 | 54.8  | 0.015 | <1   | 1.27  | 0.045 | 0.12  | 0.1  | 1.9  | 0.03  | 0.23  | <5   | 0.3  | <0.02 | 7.8  |
| 13850   | Rock       | 0.050 | 71.7 | 0.9  | 0.19 | 19.8  | 0.004 | <1   | 0.21  | 0.037 | 0.11  | <0.1 | 1.2  | 0.02  | 0.05  | <5   | <0.1 | <0.02 | 1.9  |
| 25651   | Drill Core | 0.101 | 7.7  | 54.4 | 0.78 | 43.7  | 0.133 | 2    | 1.41  | 0.162 | 0.23  | 0.4  | 5.8  | 0.10  | 0.51  | <5   | 1.1  | <0.02 | 5.9  |
| 25652   | Drill Core | 0.090 | 13.8 | 62.0 | 1.29 | 14.2  | 0.091 | 5    | 1.72  | 0.048 | 0.09  | 0.6  | 8.9  | 0.03  | 0.23  | <5   | 1.3  | 0.04  | 6.3  |
| 25653   | Drill Core | 0.107 | 9.9  | 43.3 | 0.72 | 37.5  | 0.104 | 2    | 1.46  | 0.167 | 0.08  | 0.4  | 5.2  | 0.05  | 1.02  | <5   | 1.3  | 0.04  | 5.5  |
| 25654   | Drill Core | 0.058 | 7.3  | 16.8 | 1.13 | 83.3  | 0.011 | <1   | 0.75  | 0.009 | 0.04  | <0.1 | 2.5  | <0.02 | 0.07  | <5   | 0.3  | 0.04  | 3.3  |
| 25655   | Drill Core | 0.057 | 2.3  | 9.6  | 1.08 | 74.2  | 0.025 | <1   | 0.43  | 0.011 | 0.03  | 0.1  | 1.3  | <0.02 | <0.02 | <5   | 0.1  | 0.03  | 1.5  |
| 25656   | Drill Core | 0.046 | 2.0  | 6.5  | 0.71 | 55.7  | 0.018 | <1   | 0.31  | 0.009 | 0.04  | 0.1  | 1.2  | <0.02 | 0.03  | <5   | 0.4  | 0.03  | 1.1  |
| 25657   | Drill Core | 0.079 | 2.9  | 18.8 | 1.08 | 54.9  | 0.042 | <1   | 0.70  | 0.020 | 0.07  | 0.3  | 3.5  | 0.02  | 0.05  | <5   | 0.5  | 0.03  | 2.7  |
| 25658   | Drill Core | 0.061 | 4.9  | 14.9 | 0.99 | 17.8  | 0.023 | <1   | 0.60  | 0.013 | 0.04  | 0.3  | 2.5  | <0.02 | 0.08  | <5   | 0.4  | 0.09  | 2.5  |
| 25659   | Drill Core | 0.056 | 2.1  | 11.0 | 0.65 | 10.5  | 0.027 | <1   | 0.33  | 0.011 | 0.01  | 0.4  | 1.7  | <0.02 | <0.02 | <5   | 0.4  | 0.03  | 1.5  |
| 25660   | Rock Pulp  | 0.047 | 4.1  | 25.5 | 0.41 | 31.9  | 0.039 | 3    | 0.87  | 0.050 | 0.13  | 0.9  | 2.6  | 0.57  | 5.44  | 696  | 20.9 | 0.03  | 3.4  |
| 25661   | Drill Core | 0.085 | 4.2  | 12.6 | 1.22 | 86.8  | 0.112 | 2    | 1.43  | 0.057 | 0.17  | 4.2  | 6.8  | 0.04  | 0.77  | <5   | 1.0  | 0.05  | 5.8  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: 41

Report Date: February 06, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|------|------|-------|------|-------|-------|-------|------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U    | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V    | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm  | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm  | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1  | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01 |       |
| 25662   | Drill Core | 4.70 | 1.99  | 21.40 | 55.42 | 109.6  | 610     | 9.4   | 4.8  | 1385 | 0.93 | 12.4 | 1.8  | 1.7   | 0.6  | 363.7 | 2.08  | 0.98  | 0.77 | 33   | 23.81 |
| 25663   | Drill Core | 4.50 | 0.76  | 39.78 | 22.83 | 57.9   | 415     | 5.2   | 6.5  | 687  | 1.13 | 9.0  | 0.6  | 1.0   | 0.9  | 114.6 | 0.64  | 1.18  | 0.11 | 38   | 2.34  |
| 25664   | Drill Core | 4.00 | 0.94  | 48.07 | 9.61  | 143.2  | 448     | 9.9   | 10.2 | 1257 | 1.99 | 9.5  | 1.0  | 1.7   | 0.9  | 250.9 | 1.58  | 1.44  | 0.17 | 70   | 4.35  |
| 25665   | Drill Core | 4.90 | 1.79  | 81.51 | 6.61  | 88.1   | 1185    | 8.9   | 7.2  | 2109 | 2.78 | 27.7 | 0.6  | 7.7   | 0.9  | 283.8 | 0.56  | 0.85  | 0.32 | 64   | 7.75  |
| 25666   | Drill Core | 3.20 | 0.53  | 25.12 | 45.06 | 84.2   | 675     | 7.8   | 4.3  | 2077 | 2.35 | 16.1 | 0.4  | 4.7   | 0.4  | 370.0 | 0.94  | 0.80  | 0.39 | 54   | 10.67 |
| 25667   | Drill Core | 4.00 | 1.58  | 47.53 | 13.44 | 41.9   | 352     | 7.6   | 4.2  | 1073 | 1.49 | 7.6  | 0.6  | 2.9   | 0.7  | 263.1 | 0.29  | 1.07  | 0.17 | 57   | 5.86  |
| 25668   | Drill Core | 3.80 | 1.91  | 13.56 | 96.41 | 117.7  | 732     | 8.6   | 4.4  | 1941 | 2.64 | 17.9 | 0.9  | 2.7   | 0.7  | 210.1 | 1.49  | 0.77  | 1.03 | 66   | 9.44  |
| 25669   | Drill Core | 2.80 | 1.66  | 17.71 | 26.78 | 83.5   | 461     | 8.0   | 4.7  | 2057 | 2.49 | 10.6 | 1.6  | 1.6   | 0.9  | 417.2 | 0.73  | 0.61  | 0.62 | 64   | 10.28 |
| 25670   | Rock       | 1.00 | 5.26  | 2.15  | 18.91 | 64.1   | 50      | 0.5   | 1.7  | 671  | 2.41 | 7.9  | 2.7  | 2.6   | 17.7 | 34.8  | 0.10  | 0.20  | 0.19 | 7    | 0.68  |
| 25671   | Drill Core | 4.00 | 2.48  | 27.71 | 19.13 | 72.7   | 105     | 23.1  | 13.4 | 1111 | 3.92 | 7.4  | 1.1  | 2.3   | 10.1 | 378.8 | 0.11  | 0.46  | 0.09 | 60   | 6.00  |
| 25672   | Drill Core | 1.20 | 2.44  | 34.27 | 29.65 | 57.8   | 123     | 13.9  | 11.4 | 777  | 3.37 | 10.3 | 0.6  | 2.8   | 8.6  | 304.1 | 0.12  | 0.41  | 0.11 | 48   | 3.04  |
| 25673   | Drill Core | 0.50 | 1.26  | 11.39 | 18.89 | 36.6   | 87      | 6.2   | 5.0  | 1092 | 2.30 | 11.8 | 0.7  | 5.0   | 4.2  | 246.7 | 0.06  | 0.39  | 0.05 | 34   | 4.65  |
| 25674   | Drill Core | 1.10 | 2.26  | 25.53 | 21.69 | 70.1   | 99      | 14.5  | 11.2 | 733  | 3.54 | 4.9  | 0.9  | 1.2   | 9.0  | 259.1 | 0.12  | 0.34  | 0.11 | 48   | 2.54  |
| 25675   | Drill Core | 6.60 | 1.28  | 13.63 | 4.70  | 36.7   | 59      | 6.3   | 10.8 | 611  | 2.84 | 14.3 | 0.3  | 9.9   | 1.0  | 132.6 | 0.06  | 0.31  | 0.44 | 96   | 1.96  |
| 25676   | Drill Core | 6.60 | 1.06  | 19.78 | 2.69  | 39.2   | 80      | 6.5   | 11.1 | 718  | 3.15 | 16.6 | 0.3  | 37.7  | 1.2  | 120.6 | 0.07  | 0.30  | 0.95 | 108  | 1.93  |
| 25677   | Drill Core | 6.50 | 1.08  | 14.96 | 3.21  | 38.0   | 76      | 6.7   | 9.9  | 807  | 3.40 | 22.4 | 0.4  | 13.2  | 1.1  | 112.6 | 0.04  | 0.32  | 0.11 | 103  | 2.34  |
| 25678   | Drill Core | 6.00 | 1.45  | 171.4 | 12.63 | 36.8   | 748     | 5.7   | 18.9 | 465  | 1.54 | 41.8 | 0.3  | 72.5  | 1.1  | 99.4  | 0.29  | 0.17  | 3.57 | 86   | 1.99  |
| 25679   | Drill Core | 6.20 | 1.02  | 66.02 | 4.76  | 37.0   | 147     | 8.5   | 12.8 | 634  | 2.29 | 37.0 | 0.4  | 5.4   | 1.8  | 153.4 | 0.16  | 0.27  | 0.14 | 94   | 2.39  |
| 25680   | Rock Pulp  |      | 7.44  | 484.2 | 9647  | >10000 | >100000 | 26.1  | 11.9 | 1261 | 7.74 | 4363 | 1.9  | 173.4 | 1.3  | 73.1  | 159.3 | 85.76 | 0.15 | 36   | 1.44  |
| 25681   | Drill Core | 2.10 | 1.46  | 172.0 | 16.05 | 71.2   | 447     | 14.4  | 13.1 | 606  | 2.68 | 75.4 | 0.4  | 12.5  | 1.9  | 232.5 | 0.41  | 0.42  | 0.51 | 89   | 2.00  |
| 25682   | Drill Core | 3.10 | 1.15  | 160.6 | 17.40 | 88.2   | 433     | 9.8   | 11.9 | 807  | 2.79 | 65.9 | 0.3  | 14.2  | 1.2  | 229.9 | 0.46  | 0.43  | 0.52 | 95   | 3.49  |
| 25683   | Drill Core | 4.20 | 1.58  | 87.78 | 6.80  | 47.7   | 200     | 8.4   | 8.7  | 739  | 2.85 | 33.8 | 0.2  | 6.5   | 1.3  | 153.8 | 0.21  | 0.56  | 0.44 | 98   | 2.30  |
| 25684   | Drill Core | 3.20 | 1.46  | 135.5 | 7.82  | 59.6   | 330     | 4.3   | 10.3 | 828  | 2.80 | 50.1 | 0.3  | 35.1  | 2.6  | 194.9 | 0.34  | 0.40  | 0.43 | 78   | 3.03  |
| 25685   | Drill Core | 4.30 | 2.76  | 58.08 | 10.71 | 66.9   | 214     | 24.4  | 17.6 | 951  | 3.46 | 70.3 | 0.3  | 9.9   | 1.9  | 274.7 | 0.22  | 0.64  | 0.75 | 71   | 2.76  |
| 25686   | Drill Core | 3.50 | 5.90  | 112.8 | 58.53 | 431.1  | 1142    | 25.3  | 18.7 | 1030 | 3.67 | 59.6 | 0.4  | 34.5  | 1.6  | 321.6 | 5.40  | 0.86  | 2.71 | 62   | 3.33  |
| 25687   | Drill Core | 6.60 | 3.74  | 60.66 | 222.6 | 2132   | 653     | 29.1  | 11.9 | 1305 | 3.44 | 24.7 | 0.4  | 12.8  | 3.3  | 189.4 | 19.03 | 0.70  | 0.77 | 69   | 2.36  |
| 25688   | Drill Core | 4.80 | 2.39  | 40.30 | 6.63  | 43.7   | 179     | 35.2  | 11.1 | 552  | 2.59 | 35.0 | 0.3  | 4.0   | 2.1  | 147.4 | 0.20  | 0.68  | 0.34 | 62   | 2.35  |
| 25689   | Drill Core | 4.60 | 3.38  | 62.79 | 8.09  | 40.7   | 243     | 43.0  | 12.8 | 814  | 2.72 | 56.9 | 0.4  | 4.6   | 1.7  | 208.5 | 0.20  | 0.91  | 0.76 | 66   | 4.48  |
| 25690   | Rock       | 0.90 | 3.68  | 4.07  | 23.92 | 68.9   | 61      | 1.0   | 2.1  | 663  | 2.54 | 5.5  | 2.9  | 12.2  | 18.4 | 36.1  | 0.11  | 0.29  | 0.12 | 11   | 0.41  |
| 25691   | Drill Core | 1.90 | 16.93 | 64.51 | 17.82 | 74.2   | 169     | 120.0 | 25.3 | 1020 | 4.46 | 51.8 | 0.9  | 4.3   | 4.6  | 295.4 | 0.10  | 0.54  | 0.80 | 177  | 5.10  |



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Report Date: February 06, 2008

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# CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | 1F30       | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30   | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|-------|------|-------|--------|------|-------|-------|------|------|------|-------|------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg    | Ba   | Ti    | B      | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg   | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %     | ppm  | %     | ppm    | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb  | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01  | 0.5  | 0.001 | 1      | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5    | 0.1  | 0.02 | 0.1   |      |
| 25662   | Drill Core | 0.077 | 2.5  | 14.9  | 0.60 | 19.2  | 0.074  | <1   | 0.51  | 0.024 | 0.02 | 1.8  | 2.8  | <0.02 | 0.06 | <5   | 1.4  | 0.02  | 2.8  |
| 25663   | Drill Core | 0.083 | 2.4  | 9.2   | 0.81 | 81.0  | 0.134  | <1   | 0.73  | 0.076 | 0.10 | 2.7  | 3.5  | 0.03  | 0.08 | <5   | 0.4  | <0.02 | 3.9  |
| 25664   | Drill Core | 0.088 | 3.9  | 16.4  | 1.62 | 71.0  | 0.176  | 1    | 1.38  | 0.115 | 0.07 | 2.6  | 8.2  | <0.02 | 0.10 | <5   | 0.4  | <0.02 | 6.1  |
| 25665   | Drill Core | 0.079 | 5.9  | 19.0  | 1.36 | 70.7  | 0.096  | <1   | 1.47  | 0.051 | 0.09 | 4.0  | 9.9  | <0.02 | 0.39 | 6    | 0.8  | 0.04  | 6.1  |
| 25666   | Drill Core | 0.069 | 1.9  | 14.7  | 1.60 | 38.7  | 0.099  | 2    | 1.35  | 0.045 | 0.03 | 10.5 | 7.1  | <0.02 | 0.05 | <5   | 0.7  | 0.18  | 4.3  |
| 25667   | Drill Core | 0.088 | 2.7  | 18.7  | 1.50 | 58.5  | 0.139  | <1   | 1.12  | 0.061 | 0.06 | 1.7  | 9.1  | <0.02 | 0.02 | <5   | 0.2  | 0.07  | 4.2  |
| 25668   | Drill Core | 0.079 | 3.1  | 22.4  | 1.47 | 303.2 | 0.103  | 1    | 1.69  | 0.024 | 0.10 | 7.7  | 9.4  | 0.03  | 0.08 | 5    | 1.8  | 0.14  | 6.3  |
| 25669   | Drill Core | 0.077 | 5.0  | 20.2  | 1.47 | 3451  | 0.083  | <1   | 1.84  | 0.017 | 0.16 | 12.3 | 9.2  | 0.03  | 0.11 | <5   | 0.8  | 0.16  | 6.3  |
| 25670   | Rock       | 0.048 | 79.7 | 2.5   | 0.14 | 24.6  | 0.004  | <1   | 0.28  | 0.044 | 0.12 | <0.1 | 1.1  | 0.02  | 0.05 | <5   | <0.1 | <0.02 | 1.9  |
| 25671   | Drill Core | 0.199 | 60.8 | 41.1  | 0.80 | 219.2 | 0.036  | <1   | 1.88  | 0.029 | 0.25 | <0.1 | 5.5  | 0.04  | 0.11 | <5   | 0.3  | 0.08  | 5.6  |
| 25672   | Drill Core | 0.177 | 50.5 | 18.4  | 1.24 | 382.8 | 0.070  | <1   | 1.95  | 0.026 | 0.44 | <0.1 | 2.9  | 0.09  | 0.23 | 7    | 0.3  | <0.02 | 5.6  |
| 25673   | Drill Core | 0.077 | 29.1 | 7.3   | 0.74 | 18.2  | <0.001 | <1   | 1.32  | 0.002 | 0.10 | <0.1 | 1.5  | 0.02  | 0.17 | <5   | <0.1 | 0.06  | 2.4  |
| 25674   | Drill Core | 0.172 | 58.0 | 24.1  | 1.27 | 506.6 | 0.126  | <1   | 1.81  | 0.046 | 0.51 | <0.1 | 2.8  | 0.09  | 0.11 | <5   | <0.1 | 0.05  | 6.5  |
| 25675   | Drill Core | 0.081 | 3.7  | 22.4  | 1.14 | 61.0  | 0.142  | <1   | 1.54  | 0.109 | 0.13 | 0.4  | 7.9  | 0.04  | 0.11 | <5   | <0.1 | 0.04  | 6.8  |
| 25676   | Drill Core | 0.084 | 4.8  | 24.0  | 1.23 | 98.3  | 0.134  | <1   | 1.58  | 0.105 | 0.25 | 0.2  | 8.8  | 0.08  | 0.13 | <5   | <0.1 | 0.04  | 7.3  |
| 25677   | Drill Core | 0.076 | 5.6  | 25.4  | 1.37 | 62.0  | 0.062  | 3    | 1.71  | 0.066 | 0.20 | 0.1  | 9.1  | 0.07  | 0.34 | <5   | <0.1 | <0.02 | 7.6  |
| 25678   | Drill Core | 0.078 | 5.5  | 22.4  | 0.87 | 44.3  | 0.056  | <1   | 0.86  | 0.068 | 0.14 | <0.1 | 8.8  | 0.06  | 0.12 | <5   | 0.4  | 0.30  | 4.1  |
| 25679   | Drill Core | 0.076 | 9.1  | 30.9  | 1.10 | 60.4  | 0.040  | 1    | 1.22  | 0.072 | 0.15 | <0.1 | 8.5  | 0.05  | 0.20 | <5   | 0.5  | 0.04  | 5.5  |
| 25680   | Rock Pulp  | 0.051 | 4.3  | 26.3  | 0.48 | 30.3  | 0.043  | 3    | 1.02  | 0.054 | 0.13 | 0.9  | 2.6  | 0.63  | 6.02 | 815  | 20.8 | 0.05  | 3.5  |
| 25681   | Drill Core | 0.085 | 9.6  | 35.7  | 1.20 | 72.8  | 0.014  | <1   | 1.76  | 0.052 | 0.19 | 0.2  | 9.3  | 0.06  | 0.51 | <5   | 0.9  | 0.06  | 6.0  |
| 25682   | Drill Core | 0.082 | 7.3  | 28.7  | 1.12 | 37.4  | 0.030  | <1   | 1.50  | 0.030 | 0.10 | 0.1  | 10.7 | 0.03  | 0.69 | 9    | 0.9  | 0.06  | 4.9  |
| 25683   | Drill Core | 0.093 | 6.7  | 28.2  | 1.07 | 49.7  | 0.057  | 1    | 1.07  | 0.073 | 0.09 | 0.2  | 9.2  | 0.05  | 0.71 | 9    | 0.7  | 0.07  | 4.8  |
| 25684   | Drill Core | 0.143 | 13.7 | 9.7   | 0.99 | 56.5  | 0.016  | <1   | 1.36  | 0.054 | 0.11 | 0.2  | 6.3  | 0.03  | 0.47 | <5   | 0.5  | 0.05  | 5.8  |
| 25685   | Drill Core | 0.076 | 13.3 | 43.1  | 1.24 | 35.6  | 0.007  | <1   | 2.13  | 0.006 | 0.15 | <0.1 | 10.0 | 0.09  | 0.52 | 7    | 0.5  | 0.08  | 6.2  |
| 25686   | Drill Core | 0.081 | 10.7 | 23.7  | 1.45 | 19.3  | <0.001 | <1   | 2.15  | 0.004 | 0.10 | 0.1  | 10.2 | 0.05  | 1.12 | 17   | 1.1  | 0.09  | 4.5  |
| 25687   | Drill Core | 0.095 | 15.3 | 51.1  | 1.57 | 103.2 | 0.051  | <1   | 1.94  | 0.039 | 0.36 | <0.1 | 7.5  | 0.14  | 0.62 | 102  | 0.8  | 0.09  | 7.6  |
| 25688   | Drill Core | 0.056 | 9.7  | 81.1  | 1.28 | 131.4 | 0.092  | <1   | 1.13  | 0.065 | 0.16 | 0.2  | 8.3  | 0.08  | 0.56 | <5   | 0.5  | 0.03  | 5.2  |
| 25689   | Drill Core | 0.064 | 7.2  | 63.5  | 1.11 | 119.4 | 0.113  | <1   | 1.03  | 0.058 | 0.12 | 0.4  | 7.0  | 0.08  | 0.42 | 7    | 0.4  | 0.05  | 4.8  |
| 25690   | Rock       | 0.051 | 79.9 | 2.9   | 0.18 | 27.2  | 0.010  | <1   | 0.55  | 0.057 | 0.13 | 0.1  | 1.4  | 0.02  | 0.04 | <5   | 0.2  | <0.02 | 4.4  |
| 25691   | Drill Core | 0.107 | 25.2 | 149.5 | 1.89 | 30.2  | 0.023  | <1   | 1.88  | 0.071 | 0.06 | 0.2  | 9.2  | <0.02 | 0.82 | <5   | 1.1  | 0.14  | 12.5 |



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Project: 41  
 Report Date: February 06, 2008

Page: 5 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN08003343.1

| Method  | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30    | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30  | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 |       |
|---------|------------|------|-------|-------|-------|--------|---------|-------|------|------|------|-------|------|-------|------|-------|-------|-------|-------|------|-------|
| Analyte | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag     | Ni      | Co    | Mn   | Fe   | As   | U     | Au   | Th    | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit    | kg         | ppm  | ppm   | ppm   | ppm   | ppb    | ppm     | ppm   | ppm  | %    | ppm  | ppm   | ppb  | ppm   | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL     | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2      | 0.1     | 0.1   | 1    | 0.01 | 0.1  | 0.1   | 0.2  | 0.1   | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| 25692   | Drill Core | 5.80 | 4.01  | 31.69 | 24.65 | 98.9   | 190     | 5.1   | 9.3  | 771  | 3.16 | 29.9  | 0.2  | 3.4   | 1.1  | 174.4 | 0.78  | 1.10  | 0.24  | 116  | 2.74  |
| 25693   | Drill Core | 4.40 | 1.50  | 20.92 | 178.3 | 1219   | 336     | 5.6   | 9.4  | 853  | 3.02 | 25.1  | 0.2  | 2.0   | 1.0  | 111.8 | 13.63 | 0.85  | 0.30  | 95   | 1.73  |
| 25694   | Drill Core | 5.80 | 15.85 | 71.76 | 777.3 | 2553   | 1837    | 108.4 | 19.8 | 979  | 3.09 | 179.0 | 0.7  | 12.3  | 2.7  | 133.8 | 26.29 | 2.17  | 1.62  | 108  | 4.38  |
| 25695   | Drill Core | 7.00 | 12.45 | 107.2 | 69.93 | 105.2  | 640     | 96.4  | 17.3 | 459  | 1.84 | 194.4 | 0.6  | 5.2   | 2.3  | 127.7 | 1.15  | 1.35  | 0.74  | 50   | 3.46  |
| 25696   | Drill Core | 6.20 | 12.67 | 153.6 | 43.15 | 63.2   | 651     | 95.5  | 20.0 | 610  | 2.49 | 154.8 | 0.7  | 4.4   | 2.8  | 138.1 | 0.48  | 1.38  | 1.18  | 62   | 3.89  |
| 25697   | Drill Core | 7.70 | 13.51 | 129.1 | 11.28 | 34.3   | 410     | 100.4 | 16.4 | 356  | 2.16 | 101.6 | 0.7  | 3.7   | 2.5  | 68.2  | 0.39  | 1.51  | 1.08  | 72   | 2.21  |
| 25698   | Drill Core | 6.90 | 10.24 | 58.44 | 7.11  | 26.3   | 201     | 92.5  | 18.1 | 588  | 2.71 | 174.4 | 0.8  | 2.2   | 1.9  | 204.4 | 0.22  | 1.34  | 0.69  | 77   | 11.65 |
| 25699   | Drill Core | 3.40 | 177.5 | 63.96 | 15.45 | 66.6   | 346     | 97.6  | 23.4 | 964  | 4.58 | 111.7 | 0.9  | 5.0   | 4.1  | 476.6 | 0.95  | 6.62  | 0.99  | 182  | 7.51  |
| 25700   | Rock Pulp  |      | 6.88  | 474.7 | 9901  | >10000 | ·100000 | 26.9  | 12.3 | 1257 | 7.69 | 4420  | 1.9  | 167.5 | 1.2  | 70.2  | 152.7 | 84.44 | 0.16  | 34   | 1.40  |
| 3451    | Drill Core | 5.40 | 20.38 | 59.55 | 6.18  | 30.4   | 257     | 101.7 | 20.5 | 673  | 3.89 | 90.3  | 0.9  | 5.2   | 2.3  | 347.5 | 0.67  | 1.95  | 1.74  | 173  | 8.09  |
| 3452    | Drill Core | 4.40 | 40.84 | 56.43 | 8.66  | 42.0   | 342     | 106.2 | 22.7 | 560  | 3.69 | 76.3  | 1.1  | 8.1   | 2.3  | 237.0 | 0.62  | 2.24  | 1.69  | 178  | 3.39  |
| 3453    | Drill Core | 6.50 | 5.32  | 7.06  | 2.05  | 17.3   | 50      | 12.2  | 3.2  | 498  | 0.94 | 10.5  | 1.5  | 1.5   | 0.5  | 716.7 | 0.24  | 0.19  | 0.06  | 27   | 29.80 |
| 3454    | Drill Core | 3.00 | 16.05 | 13.91 | 8.10  | 27.3   | 388     | 19.3  | 4.7  | 1359 | 3.81 | 344.3 | 1.9  | 10.4  | 0.5  | 496.6 | 0.22  | 1.51  | 0.26  | 52   | 25.53 |
| 3455    | Drill Core | 4.50 | 3.98  | 5.97  | 1.57  | 28.8   | 34      | 5.8   | 1.9  | 1160 | 0.74 | 5.8   | 2.6  | 0.7   | 0.3  | 876.9 | 0.48  | 0.12  | 0.02  | 25   | 33.65 |
| 3456    | Drill Core | 4.20 | 12.75 | 12.34 | 4.80  | 14.6   | 39      | 4.1   | 1.8  | 1062 | 0.72 | 2.9   | 2.7  | 0.9   | 0.2  | 780.3 | 0.21  | 0.23  | <0.02 | 27   | 32.49 |
| 3457    | Drill Core | 3.30 | 3.73  | 9.60  | 1.76  | 16.9   | 38      | 5.6   | 2.8  | 1087 | 0.94 | 3.3   | 1.5  | 0.7   | 0.3  | 686.7 | 0.22  | 0.20  | 0.03  | 31   | 32.31 |
| 3458    | Drill Core | 4.30 | 1.32  | 11.38 | 3.46  | 38.1   | 81      | 10.1  | 18.6 | 822  | 3.15 | 4.8   | 0.4  | 1.5   | 1.3  | 216.8 | 0.14  | 0.86  | 0.20  | 99   | 3.57  |
| 3459    | Drill Core | 5.10 | 0.77  | 25.65 | 4.22  | 30.3   | 121     | 6.2   | 9.9  | 543  | 2.02 | 5.5   | 0.4  | 1.8   | 1.2  | 147.1 | 0.12  | 0.54  | 0.16  | 60   | 3.18  |
| 3460    | Rock       | 1.10 | 21.01 | 3.01  | 21.19 | 64.8   | 56      | 1.1   | 2.0  | 624  | 2.49 | 18.5  | 2.2  | 3.2   | 18.2 | 22.2  | 0.08  | 0.43  | 0.11  | 11   | 0.25  |
| 3461    | Drill Core | 4.40 | 2.46  | 18.29 | 6.73  | 17.7   | 103     | 3.5   | 10.2 | 800  | 1.28 | 9.6   | 0.4  | 1.5   | 0.7  | 144.7 | 0.20  | 1.45  | 0.11  | 35   | 6.04  |
| 3462    | Drill Core | 3.70 | 1.81  | 8.90  | 5.03  | 12.3   | 50      | 2.4   | 2.0  | 660  | 0.74 | 6.7   | 0.6  | 0.5   | 0.6  | 182.9 | 0.19  | 1.82  | 0.11  | 31   | 8.07  |
| 3463    | Drill Core | 3.30 | 0.71  | 9.26  | 3.69  | 37.8   | 60      | 8.7   | 5.2  | 1252 | 2.20 | 10.3  | 0.6  | 0.9   | 0.7  | 262.9 | 0.13  | 1.22  | 0.15  | 70   | 7.62  |
| 3464    | Drill Core | 5.10 | 1.13  | 9.11  | 6.10  | 20.9   | 68      | 3.8   | 3.8  | 698  | 1.07 | 12.1  | 0.5  | 1.0   | 0.6  | 191.6 | 0.16  | 1.85  | 0.13  | 39   | 6.89  |
| 3465    | Drill Core | 3.10 | 0.55  | 10.78 | 2.63  | 23.5   | 59      | 4.5   | 6.7  | 380  | 1.48 | 7.9   | 0.3  | <0.2  | 0.7  | 190.7 | 0.04  | 1.20  | 0.08  | 41   | 2.29  |
| 3466    | Drill Core | 4.10 | 3.88  | 320.7 | 2.41  | 38.4   | 611     | 9.2   | 13.5 | 383  | 3.62 | 6.0   | 0.3  | 4.1   | 1.1  | 115.4 | 0.15  | 0.43  | 0.10  | 104  | 2.17  |
| 3467    | Drill Core | 4.00 | 2.03  | 57.38 | 4.00  | 29.2   | 275     | 8.7   | 28.7 | 458  | 2.70 | 8.8   | 0.4  | 0.6   | 0.8  | 121.3 | 0.11  | 0.66  | 0.18  | 91   | 1.99  |
| 3468    | Drill Core | 5.10 | 0.81  | 10.40 | 5.86  | 18.9   | 84      | 3.8   | 7.4  | 517  | 1.22 | 16.7  | 0.4  | 0.8   | 0.4  | 204.3 | 0.20  | 3.19  | 0.24  | 30   | 5.42  |
| 3469    | Drill Core | 4.40 | 1.10  | 15.68 | 9.45  | 41.8   | 170     | 9.2   | 17.6 | 824  | 1.76 | 17.7  | 0.4  | 1.2   | 0.7  | 193.5 | 0.28  | 2.11  | 0.25  | 44   | 3.72  |
| 3470    | Drill Core | 2.80 | 0.57  | 11.34 | 25.12 | 50.3   | 161     | 8.5   | 7.2  | 936  | 1.54 | 12.9  | 0.4  | <0.2  | 0.6  | 229.7 | 0.35  | 1.76  | 0.30  | 49   | 5.43  |
| 3471    | Drill Core | 1.80 | 0.33  | 7.89  | 25.60 | 53.3   | 110     | 8.2   | 4.8  | 944  | 1.34 | 11.0  | 0.4  | <0.2  | 0.5  | 226.5 | 0.42  | 1.45  | 0.21  | 48   | 5.89  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Report Date:** February 06, 2008

**Page:** 5 of 5 **Part** 2

**CERTIFICATE OF ANALYSIS**

**VAN08003343.1**

| Method  | 1F30       | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|---------|------------|-------|------|------|------|-------|-------|------|-------|-------|------|------|------|-------|-------|------|------|-------|------|
| Analyte | P          | La    | Cr   | Mg   | Ba   | Ti    | B     | Al   | Na    | K     | W    | Sc   | Tl   | S     | Hg    | Se   | Te   | Ga    |      |
| Unit    | %          | ppm   | ppm  | %    | ppm  | %     | ppm   | %    | %     | %     | ppm  | ppm  | ppm  | %     | ppb   | ppm  | ppm  | ppm   |      |
| MDL     | 0.001      | 0.5   | 0.5  | 0.01 | 0.5  | 0.001 | 1     | 0.01 | 0.001 | 0.01  | 0.1  | 0.1  | 0.02 | 0.02  | 5     | 0.1  | 0.02 | 0.1   |      |
| 25692   | Drill Core | 0.095 | 7.9  | 10.6 | 1.04 | 20.7  | 0.064 | <1   | 1.23  | 0.110 | 0.06 | 0.2  | 9.3  | <0.02 | 0.62  | <5   | 0.4  | <0.02 | 7.3  |
| 25693   | Drill Core | 0.090 | 5.7  | 8.5  | 1.03 | 20.7  | 0.121 | <1   | 1.26  | 0.100 | 0.07 | 0.4  | 7.4  | 0.03  | 0.41  | 29   | 0.4  | <0.02 | 7.4  |
| 25694   | Drill Core | 0.099 | 9.8  | 76.7 | 1.09 | 63.6  | 0.176 | <1   | 1.22  | 0.078 | 0.18 | 0.6  | 5.8  | 0.13  | 1.11  | 51   | 1.0  | 0.09  | 5.8  |
| 25695   | Drill Core | 0.114 | 8.1  | 36.0 | 0.57 | 35.7  | 0.145 | 2    | 1.04  | 0.151 | 0.08 | 0.5  | 2.7  | 0.06  | 0.68  | 6    | 0.8  | 0.05  | 4.0  |
| 25696   | Drill Core | 0.113 | 9.4  | 42.5 | 0.86 | 27.9  | 0.150 | <1   | 0.83  | 0.092 | 0.08 | 0.4  | 4.0  | 0.05  | 0.84  | <5   | 1.2  | 0.10  | 3.8  |
| 25697   | Drill Core | 0.109 | 8.8  | 44.3 | 0.57 | 28.6  | 0.170 | <1   | 0.66  | 0.068 | 0.08 | 0.5  | 3.4  | 0.05  | 1.00  | <5   | 1.2  | 0.07  | 3.6  |
| 25698   | Drill Core | 0.116 | 8.2  | 47.4 | 0.71 | 49.5  | 0.129 | 2    | 1.15  | 0.119 | 0.06 | 0.5  | 4.0  | 0.07  | 1.26  | <5   | 1.5  | 0.18  | 4.4  |
| 25699   | Drill Core | 0.108 | 23.5 | 85.4 | 1.61 | 30.7  | 0.007 | <1   | 2.40  | 0.028 | 0.09 | 0.2  | 10.5 | 0.61  | 1.86  | 14   | 2.1  | 0.15  | 7.0  |
| 25700   | Rock Pulp  | 0.049 | 4.2  | 26.0 | 0.44 | 30.9  | 0.042 | 2    | 0.93  | 0.050 | 0.13 | 0.9  | 2.7  | 0.63  | 5.93  | 774  | 20.5 | 0.04  | 3.3  |
| 3451    | Drill Core | 0.104 | 9.2  | 73.9 | 1.59 | 117.2 | 0.160 | 1    | 1.45  | 0.102 | 0.06 | 0.4  | 8.4  | 0.16  | 1.80  | 12   | 3.0  | 0.12  | 6.3  |
| 3452    | Drill Core | 0.105 | 8.2  | 75.3 | 1.35 | 100.6 | 0.203 | 1    | 1.16  | 0.094 | 0.09 | 0.6  | 8.0  | 0.17  | 1.88  | 8    | 10.2 | 0.06  | 6.3  |
| 3453    | Drill Core | 0.048 | 3.9  | 13.4 | 0.42 | 10.3  | 0.010 | <1   | 0.36  | 0.007 | 0.04 | <0.1 | 2.3  | 0.15  | 0.32  | 14   | 1.4  | 0.20  | 1.5  |
| 3454    | Drill Core | 0.061 | 4.9  | 21.6 | 0.68 | 18.1  | 0.007 | <1   | 0.63  | 0.009 | 0.06 | 0.2  | 4.3  | 0.51  | 2.76  | 39   | 2.4  | 0.13  | 2.9  |
| 3455    | Drill Core | 0.051 | 2.6  | 11.3 | 0.87 | 20.5  | 0.017 | <1   | 0.40  | 0.010 | 0.02 | 0.1  | 2.1  | <0.02 | 0.16  | <5   | 0.5  | 0.25  | 1.5  |
| 3456    | Drill Core | 0.065 | 2.4  | 11.1 | 0.88 | 35.2  | 0.016 | <1   | 0.42  | 0.008 | 0.02 | 0.1  | 2.1  | <0.02 | 0.16  | <5   | 0.7  | 0.25  | 1.4  |
| 3457    | Drill Core | 0.065 | 2.9  | 12.3 | 0.97 | 39.0  | 0.020 | <1   | 0.60  | 0.010 | 0.05 | <0.1 | 2.4  | <0.02 | 0.14  | <5   | 0.6  | 0.24  | 1.9  |
| 3458    | Drill Core | 0.076 | 4.2  | 18.0 | 2.11 | 128.7 | 0.163 | <1   | 1.95  | 0.086 | 0.15 | 0.4  | 10.9 | 0.04  | 0.60  | <5   | 1.8  | 0.02  | 7.1  |
| 3459    | Drill Core | 0.096 | 4.0  | 10.4 | 0.99 | 66.3  | 0.142 | <1   | 0.95  | 0.073 | 0.12 | 0.4  | 4.9  | 0.06  | 0.50  | <5   | 1.1  | 0.05  | 4.4  |
| 3460    | Rock       | 0.055 | 79.7 | 1.4  | 0.07 | 26.2  | 0.003 | <1   | 0.29  | 0.049 | 0.12 | <0.1 | 1.3  | 0.05  | 0.04  | 6    | 0.2  | <0.02 | 2.5  |
| 3461    | Drill Core | 0.092 | 2.1  | 8.4  | 0.48 | 51.4  | 0.152 | <1   | 0.61  | 0.035 | 0.09 | 6.0  | 2.9  | <0.02 | 0.14  | <5   | 0.4  | 0.06  | 2.6  |
| 3462    | Drill Core | 0.083 | 2.4  | 6.4  | 0.48 | 54.0  | 0.158 | <1   | 0.56  | 0.034 | 0.07 | 15.0 | 2.5  | <0.02 | <0.02 | <5   | 0.2  | 0.02  | 2.3  |
| 3463    | Drill Core | 0.099 | 3.7  | 18.3 | 1.33 | 46.1  | 0.182 | <1   | 1.33  | 0.034 | 0.06 | 2.2  | 8.8  | <0.02 | 0.07  | <5   | 0.4  | <0.02 | 5.9  |
| 3464    | Drill Core | 0.106 | 2.3  | 10.1 | 0.52 | 63.5  | 0.166 | <1   | 0.74  | 0.031 | 0.09 | 2.6  | 3.9  | <0.02 | <0.02 | <5   | 0.2  | 0.05  | 3.2  |
| 3465    | Drill Core | 0.119 | 2.4  | 10.4 | 0.87 | 79.5  | 0.181 | <1   | 1.11  | 0.093 | 0.12 | 0.7  | 4.4  | 0.06  | 0.15  | <5   | 0.6  | 0.04  | 4.4  |
| 3466    | Drill Core | 0.121 | 2.5  | 21.4 | 1.85 | 166.7 | 0.238 | <1   | 1.84  | 0.091 | 0.11 | 1.2  | 12.0 | 0.03  | 0.69  | <5   | 1.3  | 0.03  | 9.0  |
| 3467    | Drill Core | 0.126 | 2.8  | 19.1 | 1.74 | 46.0  | 0.224 | <1   | 1.45  | 0.103 | 0.07 | 1.2  | 8.8  | <0.02 | 0.98  | <5   | 2.4  | 0.04  | 7.1  |
| 3468    | Drill Core | 0.089 | 1.8  | 9.7  | 0.32 | 22.8  | 0.150 | <1   | 0.94  | 0.022 | 0.03 | 0.6  | 2.7  | <0.02 | 0.07  | <5   | 0.2  | <0.02 | 2.9  |
| 3469    | Drill Core | 0.089 | 2.4  | 13.7 | 0.84 | 45.7  | 0.186 | <1   | 0.92  | 0.049 | 0.06 | 0.8  | 4.4  | <0.02 | 0.34  | <5   | 0.7  | <0.02 | 3.6  |
| 3470    | Drill Core | 0.099 | 2.4  | 14.7 | 1.12 | 70.3  | 0.170 | <1   | 1.26  | 0.045 | 0.08 | 1.0  | 6.3  | <0.02 | 0.04  | <5   | 0.5  | 0.03  | 4.1  |
| 3471    | Drill Core | 0.114 | 2.3  | 16.3 | 1.17 | 65.9  | 0.164 | <1   | 1.23  | 0.045 | 0.07 | 0.6  | 6.7  | <0.02 | <0.02 | <5   | 0.3  | 0.03  | 4.5  |

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



**QUALITY CONTROL REPORT**

**VAN08003343.1**

| Method                 | WGHT       | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30  |
|------------------------|------------|------|-------|-------|-------|-------|------|------|------|------|-------|-------|------|------|------|-------|-------|-------|-------|------|-------|
| Analyte                | Wgt        | Mo   | Cu    | Pb    | Zn    | Ag    | Ni   | Co   | Mn   | Fe   | As    | U     | Au   | Th   | Sr   | Cd    | Sb    | Bi    | V     | Ca   |       |
| Unit                   | kg         | ppm  | ppm   | ppm   | ppm   | ppb   | ppm  | ppm  | ppm  | %    | ppm   | ppm   | ppb  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm   | %    |       |
| MDL                    | 0.01       | 0.01 | 0.01  | 0.01  | 0.1   | 2     | 0.1  | 0.1  | 1    | 0.01 | 0.1   | 0.1   | 0.2  | 0.1  | 0.5  | 0.01  | 0.02  | 0.02  | 2     | 0.01 |       |
| Pulp Duplicates        |            |      |       |       |       |       |      |      |      |      |       |       |      |      |      |       |       |       |       |      |       |
| 13829                  | Drill Core | 6.50 | 8.68  | 46.85 | 6.60  | 32.5  | 324  | 62.7 | 14.4 | 413  | 2.25  | 60.9  | 0.8  | 3.9  | 1.8  | 139.7 | 0.70  | 3.16  | 0.47  | 47   | 8.12  |
| REP 13829              | QC         |      | 9.12  | 47.04 | 6.72  | 33.2  | 329  | 61.8 | 15.5 | 420  | 2.26  | 61.7  | 0.7  | 3.4  | 1.8  | 142.8 | 0.74  | 3.17  | 0.44  | 47   | 8.28  |
| 13834                  | Drill Core | 5.80 | 4.22  | 71.27 | 4.21  | 21.6  | 251  | 6.9  | 4.2  | 753  | 0.78  | 6.3   | 1.2  | 4.8  | 0.3  | 526.5 | 0.46  | 0.53  | 0.11  | 32   | 23.25 |
| REP 13834              | QC         |      | 4.12  | 71.11 | 4.07  | 22.3  | 247  | 6.8  | 4.3  | 786  | 0.79  | 5.9   | 1.2  | 4.5  | 0.3  | 534.9 | 0.45  | 0.53  | 0.11  | 32   | 23.81 |
| 25658                  | Drill Core | 5.10 | 7.13  | 5.00  | 2.46  | 16.1  | 94   | 7.1  | 3.3  | 1760 | 0.88  | 19.7  | 2.3  | 1.7  | 0.4  | 355.0 | 0.15  | 0.16  | 0.04  | 33   | 29.23 |
| REP 25658              | QC         |      | 7.30  | 4.72  | 2.48  | 16.9  | 96   | 6.8  | 3.3  | 1752 | 0.90  | 20.5  | 2.3  | 1.7  | 0.5  | 376.4 | 0.15  | 0.16  | 0.04  | 33   | 29.11 |
| 25674                  | Drill Core | 1.10 | 2.26  | 25.53 | 21.69 | 70.1  | 99   | 14.5 | 11.2 | 733  | 3.54  | 4.9   | 0.9  | 1.2  | 9.0  | 259.1 | 0.12  | 0.34  | 0.11  | 48   | 2.54  |
| REP 25674              | QC         |      | 2.11  | 26.18 | 20.64 | 62.3  | 96   | 14.5 | 11.0 | 709  | 3.40  | 4.7   | 0.8  | 1.0  | 8.9  | 248.2 | 0.11  | 0.34  | 0.09  | 46   | 2.41  |
| 25689                  | Drill Core | 4.60 | 3.38  | 62.79 | 8.09  | 40.7  | 243  | 43.0 | 12.8 | 814  | 2.72  | 56.9  | 0.4  | 4.6  | 1.7  | 208.5 | 0.20  | 0.91  | 0.76  | 66   | 4.48  |
| REP 25689              | QC         |      | 3.41  | 67.65 | 8.31  | 44.0  | 257  | 44.4 | 13.4 | 861  | 2.80  | 61.2  | 0.5  | 4.4  | 1.7  | 219.8 | 0.20  | 0.97  | 0.78  | 68   | 4.59  |
| 3461                   | Drill Core | 4.40 | 2.46  | 18.29 | 6.73  | 17.7  | 103  | 3.5  | 10.2 | 800  | 1.28  | 9.6   | 0.4  | 1.5  | 0.7  | 144.7 | 0.20  | 1.45  | 0.11  | 35   | 6.04  |
| REP 3461               | QC         |      | 2.62  | 19.14 | 7.13  | 19.0  | 115  | 4.0  | 10.1 | 829  | 1.33  | 10.0  | 0.4  | <0.2 | 0.7  | 150.1 | 0.21  | 1.55  | 0.12  | 36   | 6.21  |
| Core Reject Duplicates |            |      |       |       |       |       |      |      |      |      |       |       |      |      |      |       |       |       |       |      |       |
| 13816                  | Drill Core | 7.00 | 9.90  | 31.76 | 7.03  | 34.6  | 186  | 43.2 | 13.4 | 576  | 2.71  | 38.5  | 0.4  | 3.5  | 1.6  | 259.4 | 0.16  | 1.34  | 0.51  | 63   | 11.56 |
| DUP 13816              | QC         |      | 10.47 | 31.66 | 7.07  | 35.9  | 171  | 46.1 | 13.2 | 570  | 2.70  | 39.9  | 0.4  | 3.4  | 1.7  | 264.2 | 0.15  | 1.36  | 0.55  | 63   | 11.09 |
| 25651                  | Drill Core | 7.80 | 9.89  | 42.94 | 2.71  | 30.8  | 90   | 92.8 | 18.6 | 722  | 2.05  | 128.2 | 0.6  | 2.2  | 2.5  | 141.2 | 0.16  | 1.23  | 1.17  | 81   | 3.48  |
| DUP 25651              | QC         |      | 8.81  | 43.10 | 2.46  | 28.5  | 88   | 85.4 | 17.2 | 680  | 1.90  | 113.9 | 0.5  | 1.6  | 2.2  | 136.3 | 0.14  | 1.17  | 1.07  | 76   | 3.41  |
| 25686                  | Drill Core | 3.50 | 5.90  | 112.8 | 58.53 | 431.1 | 1142 | 25.3 | 18.7 | 1030 | 3.67  | 59.6  | 0.4  | 34.5 | 1.6  | 321.6 | 5.40  | 0.86  | 2.71  | 62   | 3.33  |
| DUP 25686              | QC         |      | 6.16  | 119.9 | 60.33 | 465.1 | 1161 | 27.2 | 19.3 | 1067 | 3.75  | 61.5  | 0.4  | 18.5 | 1.6  | 329.3 | 6.29  | 0.85  | 2.80  | 64   | 3.35  |
| 3471                   | Drill Core | 1.80 | 0.33  | 7.89  | 25.60 | 53.3  | 110  | 8.2  | 4.8  | 944  | 1.34  | 11.0  | 0.4  | <0.2 | 0.5  | 226.5 | 0.42  | 1.45  | 0.21  | 48   | 5.89  |
| DUP 3471               | QC         |      | 0.39  | 8.48  | 29.24 | 56.8  | 138  | 9.0  | 5.2  | 1052 | 1.50  | 13.1  | 0.3  | <0.2 | 0.5  | 236.9 | 0.48  | 1.33  | 0.24  | 50   | 6.85  |
| Reference Materials    |            |      |       |       |       |       |      |      |      |      |       |       |      |      |      |       |       |       |       |      |       |
| STD DS7                | Standard   |      | 18.92 | 93.53 | 53.57 | 365.0 | 737  | 53.0 | 9.1  | 550  | 2.17  | 46.3  | 4.4  | 56.7 | 4.2  | 67.2  | 6.13  | 5.46  | 4.31  | 77   | 0.85  |
| STD DS7                | Standard   |      | 20.58 | 105.0 | 66.57 | 407.7 | 885  | 59.1 | 9.8  | 612  | 2.40  | 49.6  | 5.1  | 73.4 | 4.7  | 74.8  | 6.09  | 6.22  | 4.86  | 80   | 0.94  |
| STD DS7                | Standard   |      | 21.81 | 105.5 | 72.06 | 414.8 | 916  | 61.0 | 9.9  | 680  | 2.51  | 53.2  | 4.8  | 71.8 | 4.4  | 80.7  | 6.86  | 6.10  | 4.60  | 90   | 1.02  |
| STD DS7                | Standard   |      | 20.44 | 102.6 | 66.26 | 399.1 | 798  | 57.2 | 8.9  | 619  | 2.40  | 52.2  | 4.9  | 79.8 | 4.7  | 78.0  | 6.25  | 5.86  | 4.69  | 85   | 0.97  |
| STD DS7 Expected       |            |      | 20.92 | 109   | 70.6  | 411   | 890  | 56   | 9.7  | 627  | 2.39  | 48.2  | 4.9  | 70   | 4.4  | 68.7  | 6.38  | 5.86  | 4.51  | 86   | 0.93  |
| BLK                    | Blank      |      | <0.01 | <0.01 | <0.01 | <0.1  | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1  | <0.1 | <0.2 | <0.1 | <0.5  | <0.01 | <0.02 | <0.02 | <2   | <0.01 |

**QUALITY CONTROL REPORT**

**VAN08003343.1**

| Method                 |            | 1F30   | 1F30 | 1F30  | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  | 1F30 |
|------------------------|------------|--------|------|-------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|
| Analyte                |            | P      | La   | Cr    | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |
| Unit                   |            | %      | ppm  | ppm   | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |
| MDL                    |            | 0.001  | 0.5  | 0.5   | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |
| Pulp Duplicates        |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| 13829                  | Drill Core | 0.076  | 5.3  | 32.4  | 0.52  | 29.5  | 0.149  | 1    | 1.03  | 0.125  | 0.15  | 0.4  | 2.8  | 0.27  | 1.16  | <5   | 1.8  | 0.07  | 3.7  |
| REP 13829              | QC         | 0.076  | 5.3  | 32.4  | 0.52  | 31.3  | 0.143  | 2    | 1.05  | 0.126  | 0.15  | 0.4  | 2.7  | 0.27  | 1.14  | 6    | 1.8  | 0.05  | 4.0  |
| 13834                  | Drill Core | 0.060  | 2.1  | 10.7  | 0.70  | 88.1  | 0.051  | 1    | 0.67  | 0.066  | 0.08  | 0.2  | 2.6  | 0.04  | 0.15  | 6    | 0.9  | 0.03  | 2.2  |
| REP 13834              | QC         | 0.058  | 2.0  | 10.8  | 0.68  | 84.7  | 0.051  | <1   | 0.68  | 0.062  | 0.08  | 0.2  | 2.5  | 0.04  | 0.17  | 7    | 0.8  | 0.05  | 2.1  |
| 25658                  | Drill Core | 0.061  | 4.9  | 14.9  | 0.99  | 17.8  | 0.023  | <1   | 0.60  | 0.013  | 0.04  | 0.3  | 2.5  | <0.02 | 0.08  | <5   | 0.4  | 0.09  | 2.5  |
| REP 25658              | QC         | 0.061  | 4.9  | 14.4  | 1.00  | 17.9  | 0.023  | 1    | 0.59  | 0.014  | 0.04  | 0.3  | 2.4  | <0.02 | 0.07  | <5   | 0.5  | 0.13  | 2.5  |
| 25674                  | Drill Core | 0.172  | 58.0 | 24.1  | 1.27  | 506.6 | 0.126  | <1   | 1.81  | 0.046  | 0.51  | <0.1 | 2.8  | 0.09  | 0.11  | <5   | <0.1 | 0.05  | 6.5  |
| REP 25674              | QC         | 0.168  | 54.2 | 24.2  | 1.20  | 508.9 | 0.117  | <1   | 1.78  | 0.048  | 0.48  | <0.1 | 2.6  | 0.09  | 0.11  | <5   | 0.2  | 0.03  | 6.2  |
| 25689                  | Drill Core | 0.064  | 7.2  | 63.5  | 1.11  | 119.4 | 0.113  | <1   | 1.03  | 0.058  | 0.12  | 0.4  | 7.0  | 0.08  | 0.42  | 7    | 0.4  | 0.05  | 4.8  |
| REP 25689              | QC         | 0.069  | 7.5  | 69.4  | 1.17  | 121.2 | 0.114  | <1   | 1.02  | 0.063  | 0.13  | 0.4  | 7.1  | 0.09  | 0.42  | 8    | 0.3  | 0.08  | 5.0  |
| 3461                   | Drill Core | 0.092  | 2.1  | 8.4   | 0.48  | 51.4  | 0.152  | <1   | 0.61  | 0.035  | 0.09  | 6.0  | 2.9  | <0.02 | 0.14  | <5   | 0.4  | 0.06  | 2.6  |
| REP 3461               | QC         | 0.094  | 2.2  | 8.7   | 0.50  | 57.1  | 0.155  | 1    | 0.65  | 0.035  | 0.08  | 6.1  | 3.2  | <0.02 | 0.14  | <5   | 0.4  | 0.06  | 2.5  |
| Core Reject Duplicates |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| 13816                  | Drill Core | 0.074  | 8.2  | 49.4  | 0.85  | 41.5  | 0.053  | <1   | 1.45  | 0.103  | 0.05  | 0.2  | 6.6  | 0.07  | 1.11  | 8    | 0.8  | 0.11  | 4.6  |
| DUP 13816              | QC         | 0.077  | 8.8  | 48.8  | 0.87  | 45.7  | 0.054  | <1   | 1.53  | 0.113  | 0.06  | 0.2  | 6.8  | 0.08  | 1.07  | 8    | 1.0  | 0.10  | 4.9  |
| 25651                  | Drill Core | 0.101  | 7.7  | 54.4  | 0.78  | 43.7  | 0.133  | 2    | 1.41  | 0.162  | 0.23  | 0.4  | 5.8  | 0.10  | 0.51  | <5   | 1.1  | <0.02 | 5.9  |
| DUP 25651              | QC         | 0.095  | 6.8  | 48.2  | 0.73  | 36.6  | 0.118  | 2    | 1.35  | 0.148  | 0.19  | 0.4  | 5.5  | 0.09  | 0.49  | <5   | 1.2  | <0.02 | 5.5  |
| 25686                  | Drill Core | 0.081  | 10.7 | 23.7  | 1.45  | 19.3  | <0.001 | <1   | 2.15  | 0.004  | 0.10  | 0.1  | 10.2 | 0.05  | 1.12  | 17   | 1.1  | 0.09  | 4.5  |
| DUP 25686              | QC         | 0.084  | 11.1 | 25.9  | 1.47  | 20.3  | <0.001 | <1   | 2.21  | 0.004  | 0.11  | 0.1  | 10.8 | 0.06  | 1.15  | 19   | 1.1  | 0.17  | 4.6  |
| 3471                   | Drill Core | 0.114  | 2.3  | 16.3  | 1.17  | 65.9  | 0.164  | <1   | 1.23  | 0.045  | 0.07  | 0.6  | 6.7  | <0.02 | <0.02 | <5   | 0.3  | 0.03  | 4.5  |
| DUP 3471               | QC         | 0.116  | 2.2  | 16.6  | 1.27  | 51.1  | 0.153  | <1   | 1.24  | 0.043  | 0.06  | 0.9  | 6.7  | <0.02 | 0.02  | <5   | 0.5  | <0.02 | 4.4  |
| Reference Materials    |            |        |      |       |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |
| STD DS7                | Standard   | 0.075  | 12.1 | 184.9 | 0.94  | 342.5 | 0.098  | 39   | 0.94  | 0.088  | 0.42  | 3.4  | 2.5  | 3.82  | 0.18  | 183  | 3.1  | 1.23  | 4.3  |
| STD DS7                | Standard   | 0.077  | 13.3 | 204.7 | 1.03  | 394.9 | 0.131  | 44   | 1.00  | 0.096  | 0.43  | 3.8  | 2.7  | 4.30  | 0.19  | 211  | 3.2  | 1.36  | 4.6  |
| STD DS7                | Standard   | 0.084  | 14.6 | 221.0 | 1.07  | 395.5 | 0.118  | 43   | 1.06  | 0.094  | 0.45  | 4.1  | 2.7  | 4.29  | 0.22  | 202  | 3.6  | 1.52  | 4.6  |
| STD DS7                | Standard   | 0.078  | 13.9 | 208.8 | 1.05  | 397.4 | 0.124  | 38   | 1.03  | 0.099  | 0.46  | 3.7  | 2.9  | 4.45  | 0.20  | 184  | 3.8  | 1.36  | 4.8  |
| STD DS7 Expected       |            | 0.08   | 12.7 | 163   | 1.05  | 370.3 | 0.124  | 38.6 | 0.959 | 0.073  | 0.44  | 3.8  | 2.5  | 4.19  | 0.21  | 200  | 3.5  | 1.08  | 4.6  |
| BLK                    | Blank      | <0.001 | <0.5 | <0.5  | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |



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Project: 41

Report Date: February 06, 2008

Page: 2 of 2 Part 1

## QUALITY CONTROL REPORT

VAN08003343.1

|           |            | WGHT  | 1F30  | 1F30  | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30 | 1F30 | 1F30 | 1F30 | 1F30 | 1F30  | 1F30  | 1F30  | 1F30 |       |
|-----------|------------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|------|------|-------|-------|-------|------|-------|
|           |            | Wgt   | Mo    | Cu    | Pb    | Zn   | Ag   | Ni   | Co   | Mn   | Fe    | As   | U    | Au   | Th   | Sr   | Cd    | Sb    | Bi    | V    | Ca    |
|           |            | kg    | ppm   | ppm   | ppm   | ppm  | ppb  | ppm  | ppm  | ppm  | %     | ppm  | ppm  | ppb  | ppm  | ppm  | ppm   | ppm   | ppm   | ppm  | %     |
|           |            | 0.01  | 0.01  | 0.01  | 0.01  | 0.1  | 2    | 0.1  | 0.1  | 1    | 0.01  | 0.1  | 0.1  | 0.2  | 0.1  | 0.5  | 0.01  | 0.02  | 0.02  | 2    | 0.01  |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| BLK       | Blank      |       | <0.01 | <0.01 | <0.01 | <0.1 | <2   | <0.1 | <0.1 | <1   | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2   | <0.01 |
| Prep Wash |            |       |       |       |       |      |      |      |      |      |       |      |      |      |      |      |       |       |       |      |       |
| G1        | Prep Blank | <0.01 | 0.37  | 2.84  | 8.35  | 49.3 | 61   | 4.3  | 4.2  | 537  | 1.84  | 0.5  | 2.4  | <0.2 | 4.2  | 50.6 | 0.04  | 0.37  | 0.06  | 36   | 0.42  |
| G1        | Prep Blank | <0.01 | 0.33  | 2.48  | 6.79  | 47.3 | 28   | 4.3  | 4.1  | 494  | 1.74  | 0.4  | 2.2  | <0.2 | 4.1  | 43.6 | 0.05  | 0.19  | 0.06  | 34   | 0.39  |

QUALITY CONTROL REPORT

VAN08003343.1

|           |            | 1F30   | 1F30 | 1F30 | 1F30  | 1F30  | 1F30   | 1F30 | 1F30  | 1F30   | 1F30  | 1F30 | 1F30 | 1F30  | 1F30  | 1F30 | 1F30 | 1F30  |      |  |
|-----------|------------|--------|------|------|-------|-------|--------|------|-------|--------|-------|------|------|-------|-------|------|------|-------|------|--|
|           |            | P      | La   | Cr   | Mg    | Ba    | Ti     | B    | Al    | Na     | K     | W    | Sc   | Tl    | S     | Hg   | Se   | Te    | Ga   |  |
|           |            | %      | ppm  | ppm  | %     | ppm   | %      | ppm  | %     | %      | %     | ppm  | ppm  | ppm   | %     | ppb  | ppm  | ppm   | ppm  |  |
|           |            | 0.001  | 0.5  | 0.5  | 0.01  | 0.5   | 0.001  | 1    | 0.01  | 0.001  | 0.01  | 0.1  | 0.1  | 0.02  | 0.02  | 5    | 0.1  | 0.02  | 0.1  |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| BLK       | Blank      | <0.001 | <0.5 | <0.5 | <0.01 | <0.5  | <0.001 | <1   | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5   | <0.1 | <0.02 | <0.1 |  |
| Prep Wash |            |        |      |      |       |       |        |      |       |        |       |      |      |       |       |      |      |       |      |  |
| G1        | Prep Blank | 0.074  | 6.4  | 10.7 | 0.57  | 216.2 | 0.123  | <1   | 0.88  | 0.050  | 0.48  | 0.1  | 1.8  | 0.37  | <0.02 | 45   | 0.2  | <0.02 | 4.5  |  |
| G1        | Prep Blank | 0.067  | 6.2  | 11.2 | 0.54  | 201.0 | 0.118  | <1   | 0.83  | 0.051  | 0.46  | <0.1 | 1.7  | 0.36  | <0.02 | 44   | <0.1 | <0.02 | 4.2  |  |

APPENDIX 5d

Reference Standard Analytical Certificate

# CDN Resource Laboratories Ltd.

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## ORE REFERENCE STANDARD: CDN-SE-2

Recommended values and the "Between Lab" Two Standard Deviations

|               |                          |
|---------------|--------------------------|
| <i>Gold</i>   | <i>0.242 ± 0.018 g/t</i> |
| <i>Silver</i> | <i>354 ± 21 g/t</i>      |
| <i>Copper</i> | <i>0.049 ± 0.003 %</i>   |
| <i>Lead</i>   | <i>0.957 ± 0.044 %</i>   |
| <i>Zinc</i>   | <i>1.34 ± 0.11 %</i>     |

**PREPARED BY:** CDN Resource Laboratories Ltd.  
**CERTIFIED BY:** Duncan Sanderson, B.Sc., Licensed Assayer of British Columbia  
**INDEPENDENT GEOCHEMIST:** Dr. Barry Smee., Ph.D., P. Geo.  
**DATE OF CERTIFICATION:** May 15, 2007

### **METHOD OF PREPARATION:**

Reject ore material was dried, crushed, pulverized and then passed through a 200 mesh screen. The +200 material was discarded. The -200 material was mixed for 6 days in a double-cone blender. Splits were taken and sent to twelve laboratories for round robin assaying.

### **ORIGIN OF REFERENCE MATERIAL:**

The ore was supplied by Silver Eagle Mines Inc. from their Miguel Auza property. The material is from a relatively coarse-grained, epithermal Pb-Zn-Ag vein with accessory pyrite, calcite, quartz, sericite and clays. Principal ore minerals are galena, sphalerite, argentite, native silver (electrum?) and minor silver sulphosalts. The latter may comprise one or more of iodargyrite, proustite-pyrargyrite, pearceite-polybasite, nuammanite, aguilarite and eucarite. Arsenic, lesser antimony and copper and minor selenium are all present. The sample was taken from the transition zone between the near-surface oxidized zone and the unweathered (protore) zone of primary sulphides. As such, some cerussite (PbCO<sub>3</sub>) and smithsonite (ZnCO<sub>3</sub>) are probably present. Standard CDN-SE-2 was prepared by mixing the primary ore 50:50 with A blank granitic material.

### **Approximate chemical composition is as follows:**

|                                | Percent |                   | Percent |
|--------------------------------|---------|-------------------|---------|
| SiO <sub>2</sub>               | 60.7    | Na <sub>2</sub> O | 1.6     |
| Al <sub>2</sub> O <sub>3</sub> | 10.4    | MgO               | 1.5     |
| Fe <sub>2</sub> O <sub>3</sub> | 11.3    | K <sub>2</sub> O  | 2.0     |
| CaO                            | 3.2     | TiO <sub>2</sub>  | 0.5     |
| MnO                            | 0.2     | LOI               | 6.8     |
| S                              | 6.3     | C                 | 0.6     |

### **Statistical Procedures:**

The final limits were calculated after first determining if all data was compatible within a spread normally expected for similar analytical methods done by reputable laboratories. Data from any one laboratory was removed from further calculations when the mean of all analyses from that laboratory failed a t test of the global means of the other laboratories. The means and standard deviations were calculated using all remaining data. Any analysis that fell outside of the mean ±2 standard deviations was removed from the ensuing data base. The mean and standard deviations were again calculated using the remaining data. Outliers were defined as samples beyond the mean ± 2 Standard Deviations from all data. These outliers were removed from the data and a new mean and standard deviation was determined. This method is different from that used by Government agencies in that the actual "between-laboratory" standard deviation is used in the calculations. This produces upper and lower limits that reflect actual individual analyses rather than a grouped set of analyses. The limits can therefore be used to monitor accuracy from individual analyses, unlike the Confidence Limits published on other standards.

## **STANDARD REFERENCE MATERIAL CDN-SE-2**

### **Assay Procedures:**

**Au:** Fire assay pre-concentration, AA or ICP finish (30g sub-sample).

**Ag:** either fire assay, gravimetric or 4 acid digestion, ICP finish

**Cu, Pb, Zn:** 4-acid digestion, AA or ICP finish.

### **Round-robin assay results:**

|            | Lab 1  | Lab 2   | Lab 3  | Lab 4  | Lab 5  | Lab 6  | Lab 7  | Lab 8   | Lab 9  | Lab 10 | Lab 11 | Lab 12 |
|------------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
|            | Au g/t | Au g/t  | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t | Au g/t  | Au g/t | Au g/t | Au g/t | Au g/t |
| SE2-1      | 0.24   | 0.247   | 0.25   | 0.27   | 0.24   | 0.25   | 0.233  | 0.24    | 0.250  | 0.232  | 0.235  | 0.253  |
| SE2-2      | 0.24   | 0.239   | 0.24   | 0.23   | 0.25   | 0.25   | 0.333  | 0.24    | 0.252  | 0.234  | 0.220  | 0.250  |
| SE2-3      | 0.20   | 0.241   | 0.24   | 0.23   | 0.25   | 0.26   | 0.333  | 0.24    | 0.249  | 0.231  | 0.235  | 0.242  |
| SE2-4      | 0.24   | 0.244   | 0.24   | 0.24   | 0.25   | 0.25   | 0.267  | 0.25    | 0.247  | 0.227  | 0.230  | 0.241  |
| SE2-5      | 0.25   | 0.248   | 0.25   | 0.22   | 0.24   | 0.25   | 0.233  | 0.24    | 0.247  | 0.222  | 0.230  | 0.250  |
| SE2-6      | 0.25   | 0.242   | 0.24   | 0.23   | 0.24   | 0.26   | 0.300  | 0.25    | 0.245  | 0.218  | 0.235  | 0.236  |
| SE2-7      | 0.24   | 0.246   | 0.25   | 0.24   | 0.23   | 0.26   | 0.333  | 0.25    | 0.249  | 0.232  | 0.230  | 0.246  |
| SE2-8      | 0.24   | 0.242   | 0.24   | 0.23   | 0.24   | 0.26   | 0.300  | 0.25    | 0.239  | 0.227  | 0.230  | 0.259  |
| SE2-9      | 0.25   | 0.237   | 0.25   | 0.23   | 0.25   | 0.25   | 0.300  | 0.25    | 0.240  | 0.229  | 0.235  | 0.254  |
| SE2-10     | 0.24   | 0.249   | 0.24   | 0.25   | 0.25   | 0.24   | 0.233  | 0.24    | 0.237  | 0.228  | 0.245  | 0.239  |
| Mean       | 0.239  | 0.244   | 0.243  | 0.237  | 0.244  | 0.253  | 0.287  | 0.245   | 0.246  | 0.228  | 0.233  | 0.247  |
| Std. Devn. | 0.0145 | 0.0040  | 0.0025 | 0.0142 | 0.0070 | 0.0067 | 0.0422 | 0.0053  | 0.0051 | 0.0049 | 0.0063 | 0.0074 |
| % RSD      | 6.06   | 1.63    | 1.03   | 5.98   | 2.87   | 2.67   | 14.72  | 2.15    | 2.09   | 2.15   | 2.73   | 3.00   |
|            | Ag g/t | Ag g/t  | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t | Ag g/t  | Ag g/t | Ag g/t | Ag g/t | Ag g/t |
| SE2-1      | 356    | 358     | 352.6  | 350.9  | 353    | 380    | 351.1  | 387     | 350    | 370    | 347.0  | 362    |
| SE2-2      | 362    | 341     | 350.9  | 345.3  | 358    | 380    | 343.9  | 371     | 347    | 349    | 343.1  | 368    |
| SE2-3      | 362    | 339     | 352.7  | 349.0  | 357    | 380    | 345.1  | 415     | 345    | 357    | 353.7  | 362    |
| SE2-4      | 364    | 341     | 351.3  | 349.7  | 357    | 380    | 349.1  | 378     | 346    | 352    | 353.3  | 368    |
| SE2-5      | 362    | 348     | 353.2  | 340.3  | 358    | 380    | 350.2  | 354     | 348    | 348    | 349.5  | 362    |
| SE2-6      | 369    | 342     | 356.0  | 361.3  | 357    | 390    | 345.7  | 357     | 346    | 349    | 344.0  | 357    |
| SE2-7      | 373    | 340     | 349.2  | 359.3  | 360    | 380    | 338.4  | 376     | 346    | 341    | 348.3  | 373    |
| SE2-8      | 367    | 338     | 352.7  | 349.5  | 357    | 380    | 337.3  | 365     | 348    | 352    | 342.4  | 357    |
| SE2-9      | 377    | 247     | 349.3  | 348.6  | 357    | 390    | 342.4  | 363     | 347    | 362    | 352.1  | 368    |
| SE2-10     | 369    | 248     | 355.4  | 354.2  | 354    | 390    | 345.4  | 369     | 350    | 340    | 350.7  | 368    |
| Mean       | 366    | 324     | 352    | 351    | 357    | 383    | 345    | 374     | 347    | 352    | 348    | 365    |
| Std. Devn. | 6.1545 | 40.8461 | 2.2656 | 6.1963 | 4.9497 | 4.8305 | 4.6377 | 17.6147 | 1.7029 | 9.2164 | 4.1861 | 5.2967 |
| % RSD      | 1.68   | 12.60   | 0.64   | 1.77   | 1.39   | 1.26   | 1.34   | 4.72    | 0.49   | 2.62   | 1.20   | 1.45   |

**NOTE :** Au data from Lab. 7 was removed for failing the "t" test.

Ag data from Lab. 6 was removed for failing the "t" test.

**STANDARD REFERENCE MATERIAL CDN-SE-2**

|            | Lab 1  | Lab 2  | Lab 3  | Lab 4  | Lab 5  | Lab 6  | Lab 7  | Lab 8  | Lab 9  | Lab 10 | Lab 11 | Lab 12 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|            | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   | % Cu   |
| SE2-1      | 0.049  | 0.051  | 0.05   | 0.048  | 0.049  | 0.049  | 0.049  | 0.051  | 0.050  | 0.050  | 0.048  | 0.051  |
| SE2-2      | 0.050  | 0.052  | 0.05   | 0.048  | 0.048  | 0.048  | 0.049  | 0.050  | 0.049  | 0.050  | 0.048  | 0.056  |
| SE2-3      | 0.049  | 0.053  | 0.05   | 0.046  | 0.047  | 0.048  | 0.049  | 0.056  | 0.049  | 0.050  | 0.049  | 0.048  |
| SE2-4      | 0.049  | 0.049  | 0.05   | 0.048  | 0.048  | 0.048  | 0.049  | 0.050  | 0.050  | 0.050  | 0.047  | 0.049  |
| SE2-5      | 0.048  | 0.051  | 0.05   | 0.047  | 0.047  | 0.050  | 0.050  | 0.049  | 0.050  | 0.050  | 0.047  | 0.047  |
| SE2-6      | 0.048  | 0.052  | 0.05   | 0.048  | 0.047  | 0.047  | 0.050  | 0.048  | 0.050  | 0.050  | 0.048  | 0.049  |
| SE2-7      | 0.048  | 0.051  | 0.05   | 0.046  | 0.048  | 0.050  | 0.049  | 0.049  | 0.048  | 0.049  | 0.047  | 0.049  |
| SE2-8      | 0.050  | 0.050  | 0.05   | 0.048  | 0.048  | 0.048  | 0.049  | 0.049  | 0.049  | 0.050  | 0.047  | 0.050  |
| SE2-9      | 0.050  | 0.050  | 0.05   | 0.048  | 0.047  | 0.050  | 0.049  | 0.047  | 0.049  | 0.051  | 0.048  | 0.051  |
| SE2-10     | 0.049  | 0.051  | 0.05   | 0.048  | 0.048  | 0.050  | 0.049  | 0.049  | 0.05   | 0.050  | 0.050  | 0.050  |
| Mean       | 0.049  | 0.051  | 0.051  | 0.048  | 0.048  | 0.049  | 0.049  | 0.050  | 0.049  | 0.050  | 0.048  | 0.050  |
| Std. Devn. | 0.0008 | 0.0012 | 0.0018 | 0.0008 | 0.0006 | 0.0011 | 0.0004 | 0.0024 | 0.0007 | 0.0005 | 0.0010 | 0.0024 |
| % RSD      | 1.67   | 2.26   | 3.51   | 1.79   | 1.35   | 2.33   | 0.86   | 4.90   | 1.42   | 0.90   | 2.08   | 4.90   |
|            | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   | % Pb   |
| SE2-1      | 0.96   | 0.94   | 0.99   | 0.99   | 0.94   | 0.97   | 0.95   | 1.02   | 0.96   | 0.95   | 0.94   | 0.92   |
| SE2-2      | 0.97   | 0.96   | 1.01   | 0.99   | 0.94   | 0.96   | 0.95   | 1.01   | 0.94   | 0.94   | 0.94   | 0.92   |
| SE2-3      | 0.97   | 0.96   | 1.00   | 1.01   | 0.94   | 0.97   | 0.94   | 1.10   | 0.94   | 0.95   | 0.96   | 0.94   |
| SE2-4      | 0.97   | 0.91   | 1.01   | 1.00   | 0.94   | 0.98   | 0.95   | 1.02   | 0.96   | 0.93   | 0.96   | 0.94   |
| SE2-5      | 0.95   | 0.95   | 0.97   | 1.00   | 0.94   | 0.97   | 0.95   | 0.96   | 0.96   | 0.93   | 0.96   | 0.93   |
| SE2-6      | 0.95   | 0.96   | 0.97   | 1.02   | 0.94   | 0.97   | 0.95   | 0.95   | 0.94   | 0.93   | 0.94   | 0.94   |
| SE2-7      | 0.95   | 0.95   | 0.99   | 1.01   | 0.93   | 0.96   | 0.95   | 0.99   | 0.92   | 0.93   | 0.95   | 0.95   |
| SE2-8      | 0.99   | 0.94   | 0.99   | 1.01   | 0.95   | 0.96   | 0.95   | 0.99   | 0.92   | 0.94   | 0.94   | 0.95   |
| SE2-9      | 0.97   | 0.95   | 0.95   | 0.99   | 0.95   | 0.97   | 0.96   | 0.95   | 0.93   | 0.94   | 0.95   | 0.96   |
| SE2-10     | 0.96   | 0.95   | 0.97   | 0.97   | 0.94   | 0.97   | 0.96   | 0.97   | 0.93   | 0.95   | 0.95   | 0.95   |
| Mean       | 0.96   | 0.95   | 0.98   | 1.00   | 0.94   | 0.97   | 0.95   | 1.00   | 0.94   | 0.94   | 0.95   | 0.94   |
| Std. Devn. | 0.0126 | 0.0149 | 0.0198 | 0.0145 | 0.0062 | 0.0044 | 0.0063 | 0.0453 | 0.0156 | 0.0093 | 0.0065 | 0.0116 |
| % RSD      | 1.31   | 1.58   | 2.01   | 1.45   | 0.66   | 0.45   | 0.66   | 4.54   | 1.66   | 0.99   | 0.69   | 1.24   |
|            | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   | % Zn   |
| SE2-1      | 1.36   | 1.32   | 1.40   | 1.26   | 1.34   | 1.42   | 1.34   | 1.43   | 1.29   | 1.35   | 1.32   | 1.27   |
| SE2-2      | 1.38   | 1.31   | 1.40   | 1.24   | 1.33   | 1.45   | 1.34   | 1.40   | 1.26   | 1.33   | 1.31   | 1.25   |
| SE2-3      | 1.39   | 1.33   | 1.42   | 1.28   | 1.35   | 1.43   | 1.34   | 1.55   | 1.26   | 1.34   | 1.33   | 1.23   |
| SE2-4      | 1.39   | 1.30   | 1.42   | 1.28   | 1.34   | 1.43   | 1.33   | 1.44   | 1.29   | 1.32   | 1.33   | 1.27   |
| SE2-5      | 1.38   | 1.30   | 1.38   | 1.27   | 1.35   | 1.44   | 1.33   | 1.37   | 1.28   | 1.32   | 1.35   | 1.24   |
| SE2-6      | 1.39   | 1.29   | 1.37   | 1.26   | 1.35   | 1.41   | 1.32   | 1.36   | 1.27   | 1.33   | 1.32   | 1.28   |
| SE2-7      | 1.36   | 1.29   | 1.39   | 1.27   | 1.33   | 1.41   | 1.33   | 1.41   | 1.23   | 1.34   | 1.34   | 1.28   |
| SE2-8      | 1.42   | 1.28   | 1.39   | 1.26   | 1.34   | 1.43   | 1.33   | 1.39   | 1.25   | 1.32   | 1.33   | 1.28   |
| SE2-9      | 1.41   | 1.28   | 1.34   | 1.27   | 1.33   | 1.43   | 1.34   | 1.35   | 1.27   | 1.34   | 1.34   | 1.30   |
| SE2-10     | 1.38   | 1.27   | 1.36   | 1.28   | 1.34   | 1.44   | 1.35   | 1.42   | 1.26   | 1.34   | 1.34   | 1.29   |
| Mean       | 1.39   | 1.30   | 1.39   | 1.27   | 1.34   | 1.43   | 1.34   | 1.41   | 1.27   | 1.33   | 1.33   | 1.27   |
| Std. Devn. | 0.0190 | 0.0189 | 0.0271 | 0.0125 | 0.0079 | 0.0129 | 0.0081 | 0.0569 | 0.0184 | 0.0103 | 0.0108 | 0.0223 |
| % RSD      | 1.37   | 1.46   | 1.96   | 0.99   | 0.59   | 0.90   | 0.61   | 4.03   | 1.45   | 0.78   | 0.81   | 1.76   |



**STANDARD REFERENCE MATERIAL CDN-SE-2**

**Participating Laboratories:**


(not in same order as listed in table of results)

Acme Analytical Laboratories Ltd., Vancouver  
Assayers Canada Ltd., Vancouver  
ALS Chemex Laboratories, North Vancouver  
Alaska Assay Lab., USA  
Alex Stewart Assayers (Argentina) Ltd.  
Eco Tech Laboratory, Kamloops, B.C.  
Genalysis Laboratory Services, Australia  
GTK Laboratory, Finland  
OMAC Laboratory Ltd., Ireland  
Skyline Laboratory, Arizona, USA  
Teck Cominco - Global Discovery Laboratory, Vancouver  
TSL Laboratories Ltd., Saskatoon


Legal Notice:

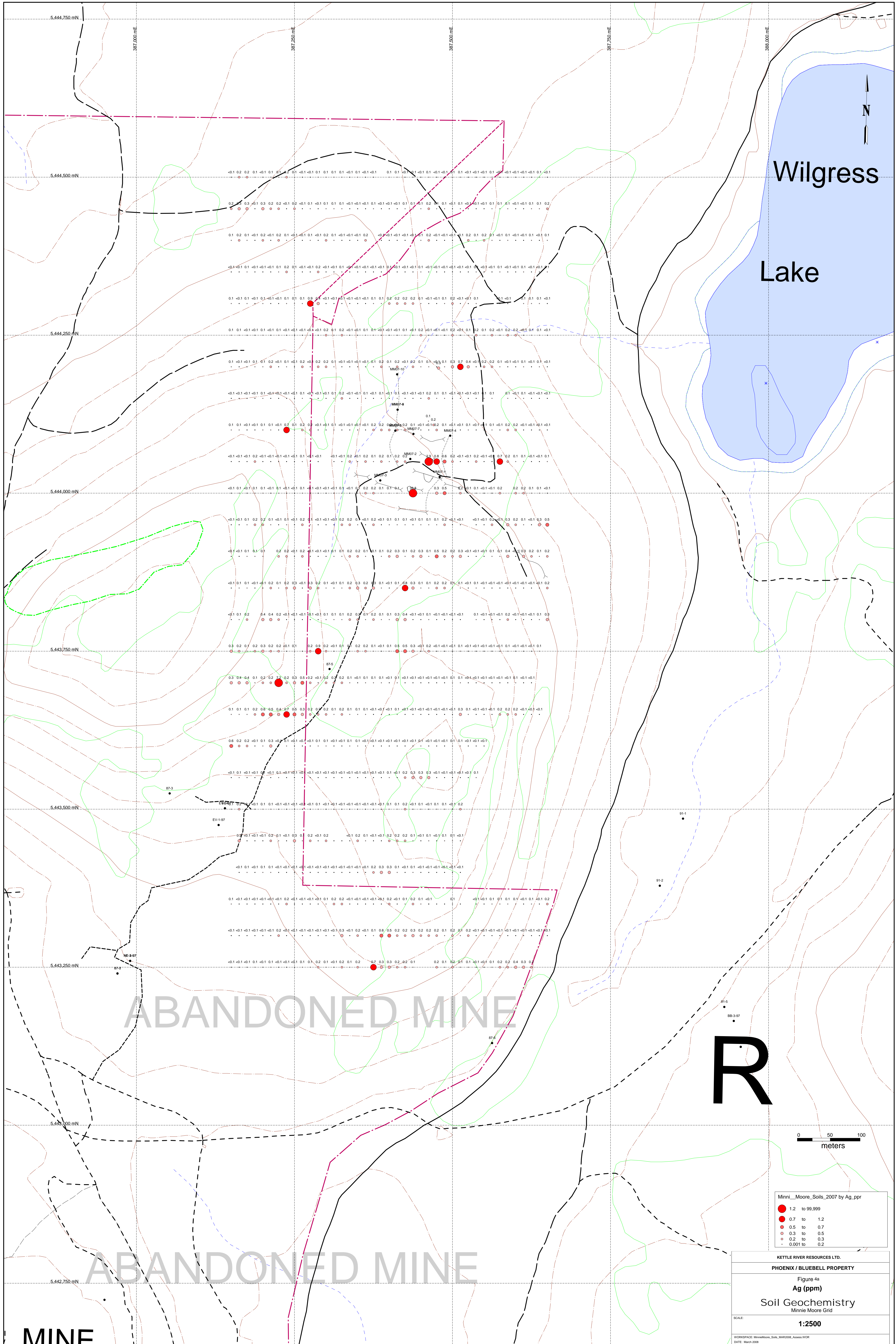
This certificate and the reference material described in it have been prepared with due care and attention. However CDN Resource Laboratories Ltd. or Barry Smee accept no liability for any decisions or actions taken following the use of the reference material. Our liability is limited solely to the cost of the reference material.

Certified by

  
Duncan Sanderson, Certified Assayer of B.C.

Geochemist

  
Dr. Barry Smee, Ph.D., P. Geo.



Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE

R

- Minni\_Moore\_Soils\_2007 by Ag\_ppm
- 1.2 to 99,999
  - 0.7 to 1.2
  - 0.5 to 0.7
  - 0.3 to 0.5
  - 0.2 to 0.3
  - 0.001 to 0.2

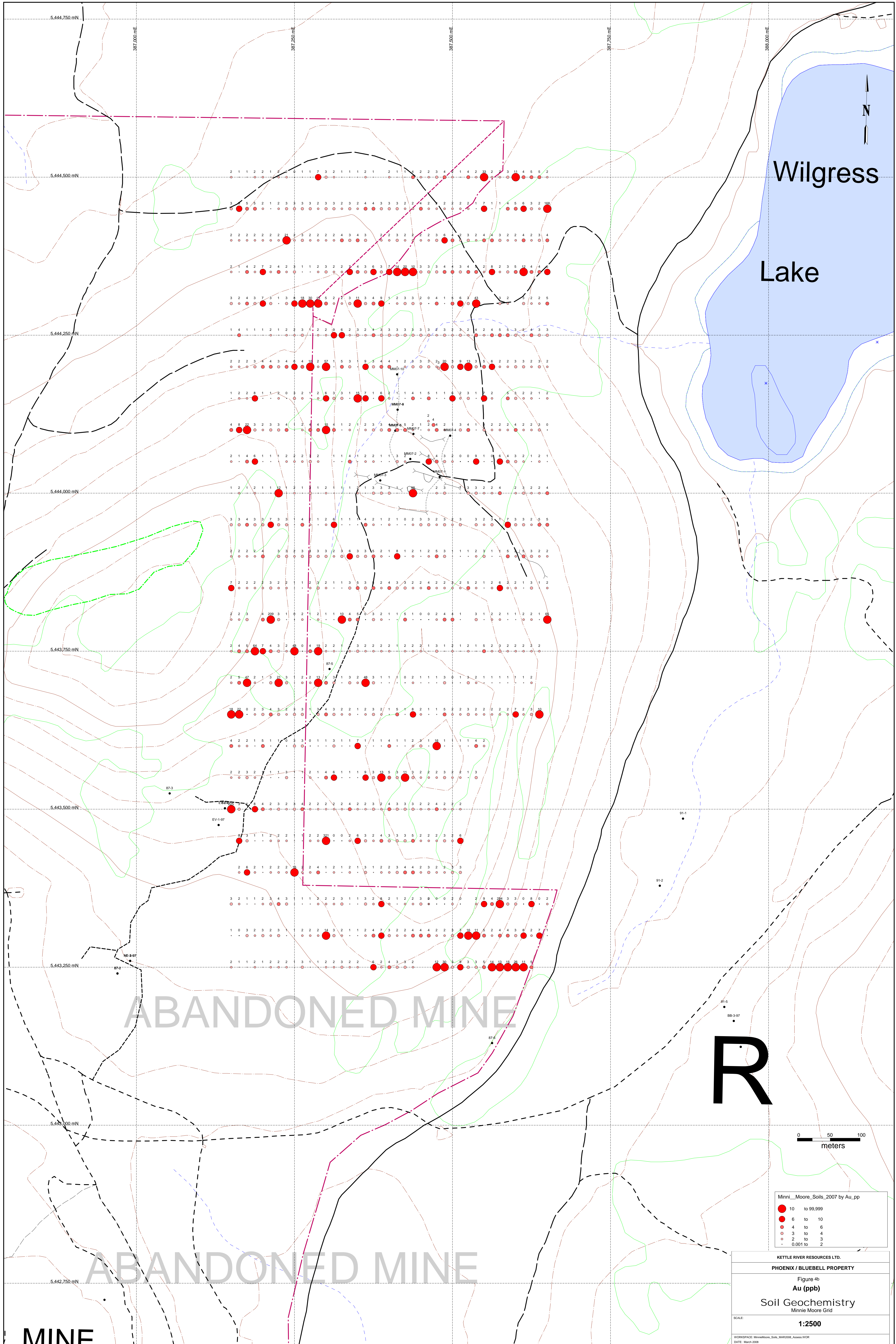
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4a  
**Ag (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE:  
**1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





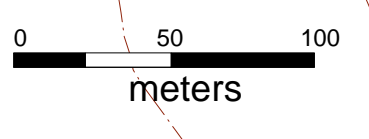
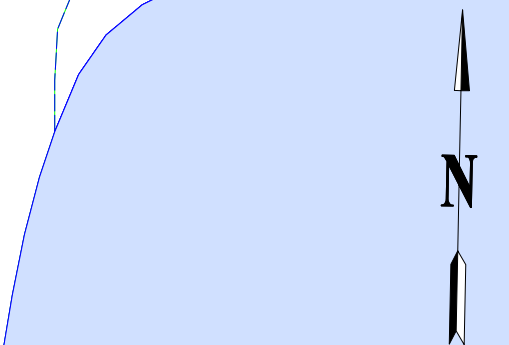
Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE



Minni\_Moore\_Soils\_2007 by Au\_pp

|   |              |
|---|--------------|
| ● | 10 to 99,999 |
| ● | 6 to 10      |
| ● | 4 to 6       |
| ● | 3 to 4       |
| ● | 2 to 3       |
| ● | 0.001 to 2   |

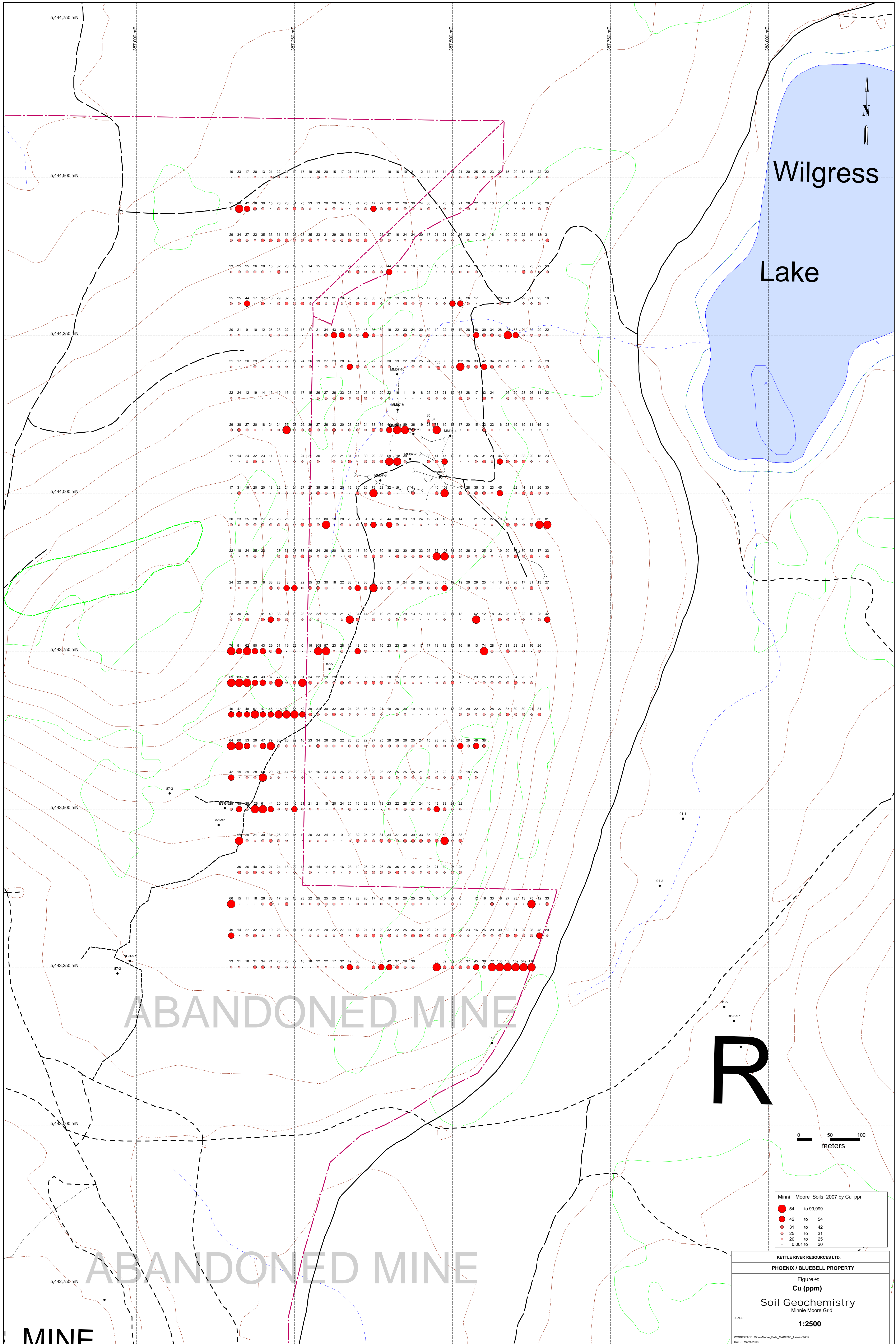
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4b  
**Au (ppb)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE: **1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





Wilgress

Lake

ABANDONED MINE

R

ABANDONED MINE

MINE

Minni\_Moore\_Soils\_2007 by Cu\_ppm

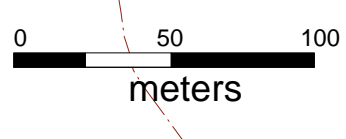
|   |              |
|---|--------------|
| ● | 54 to 99,999 |
| ● | 42 to 54     |
| ● | 31 to 42     |
| ● | 25 to 31     |
| ● | 20 to 25     |
| ● | 0.001 to 20  |

KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

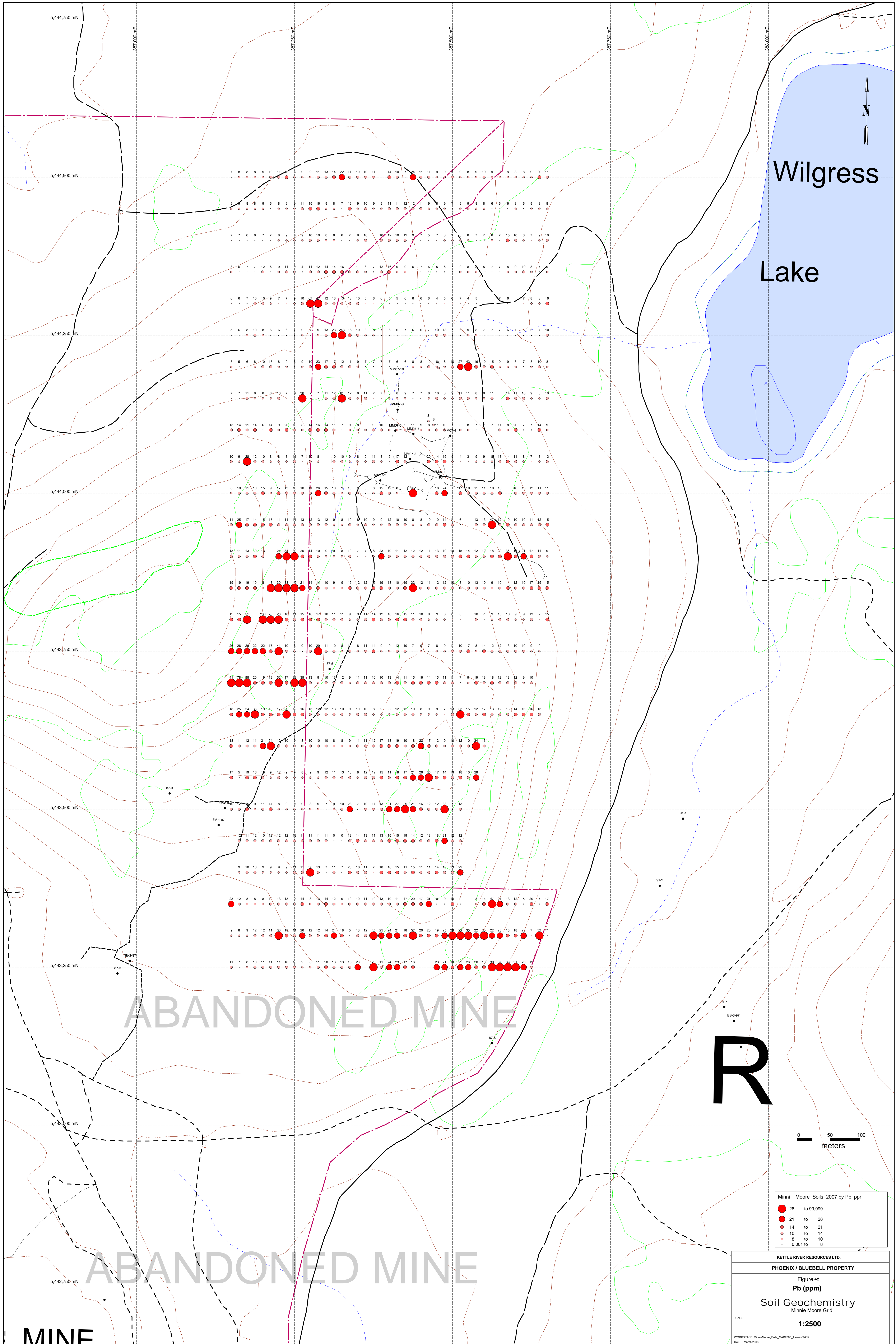
Figure 4c  
**Cu (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE: **1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008







Wilgress

Lake

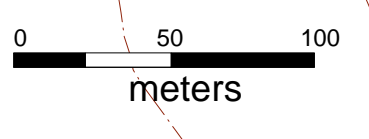


R

ABANDONED MINE

ABANDONED MINE

MINE



Minni\_Moore\_Soils\_2007 by Pb\_ppm

|                |              |
|----------------|--------------|
| ● (Large Red)  | 28 to 99,999 |
| ● (Medium Red) | 21 to 28     |
| ● (Small Red)  | 14 to 21     |
| ○ (White)      | 10 to 14     |
| ○ (Light Grey) | 8 to 10      |
| ○ (White)      | 0.001 to 8   |

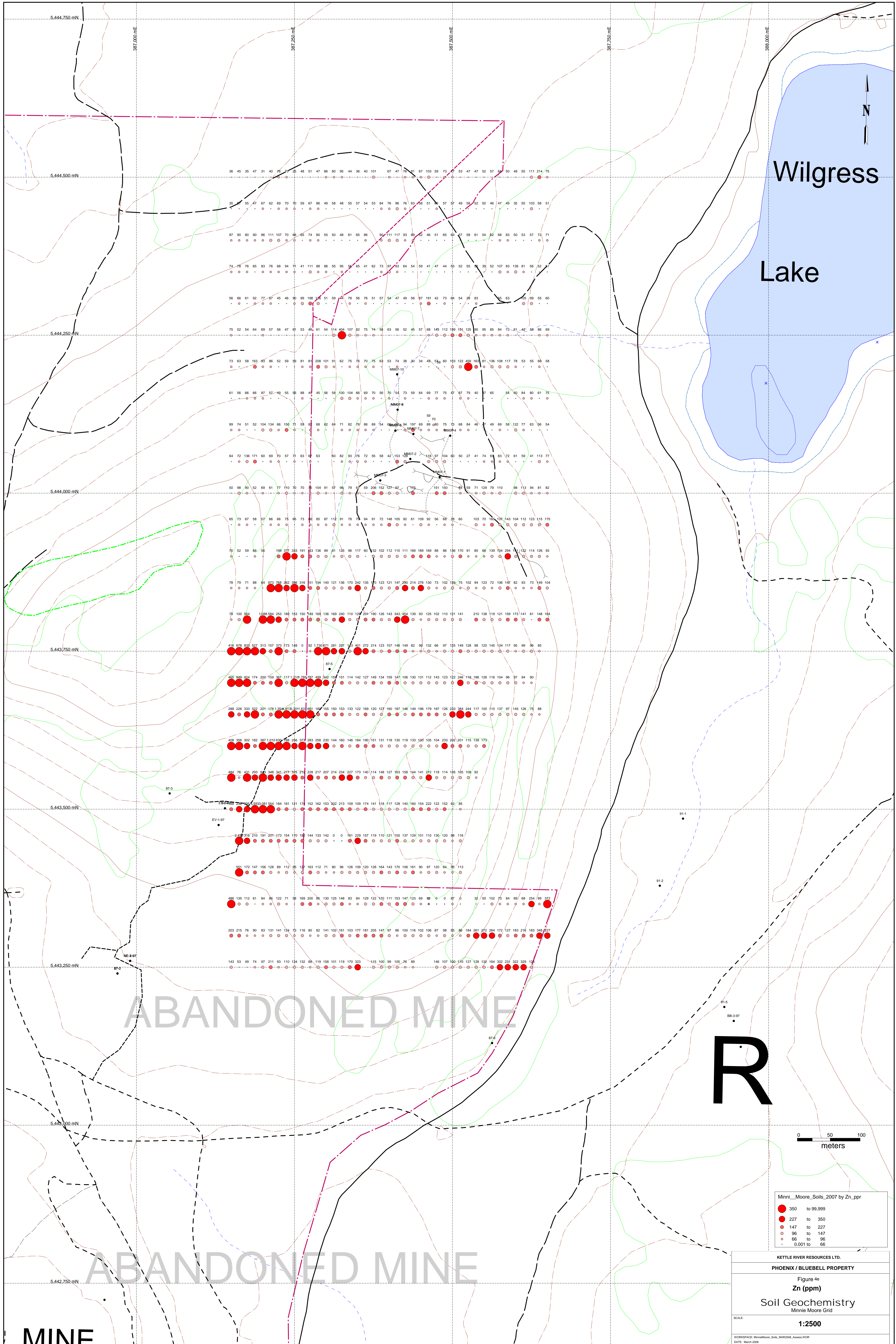
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4d  
**Pb (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE: **1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





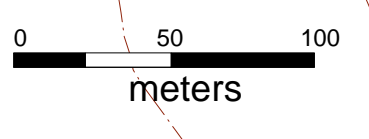
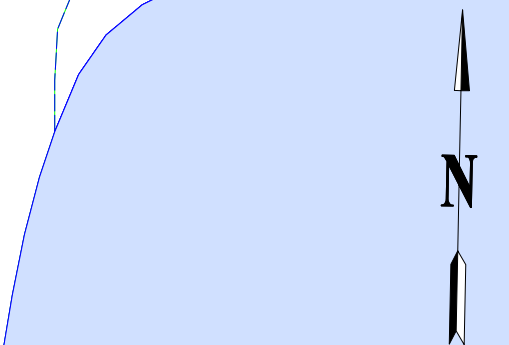
Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE



Minni\_Moore\_Soils\_2007 by Zn\_ppm

|   |               |
|---|---------------|
| ● | 350 to 99,999 |
| ● | 227 to 350    |
| ● | 147 to 227    |
| ● | 95 to 147     |
| ● | 66 to 95      |
| ● | 0.001 to 66   |

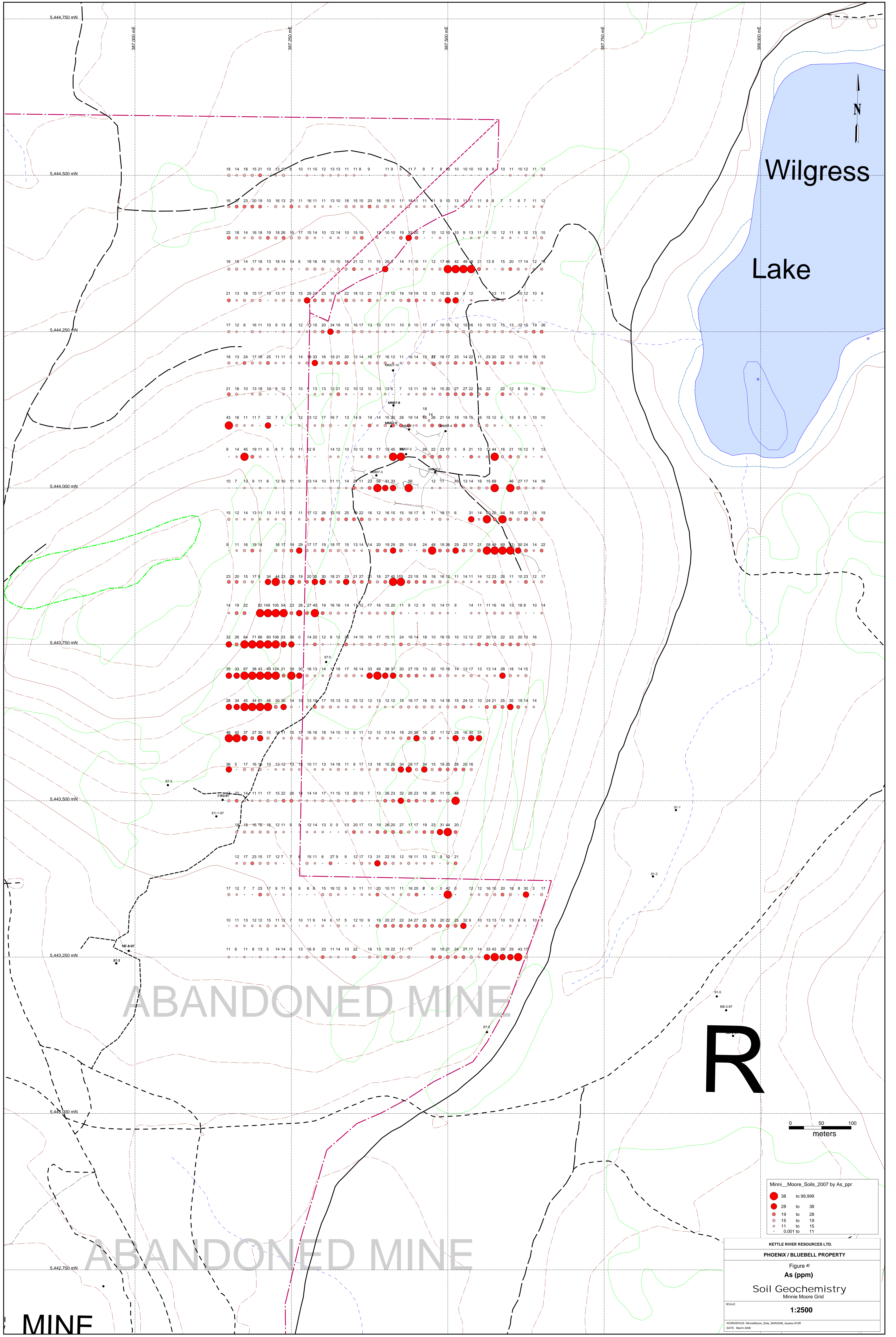
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4e  
 Zn (ppm)  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE:  
 1:2500

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





Wilgress

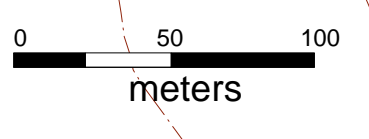
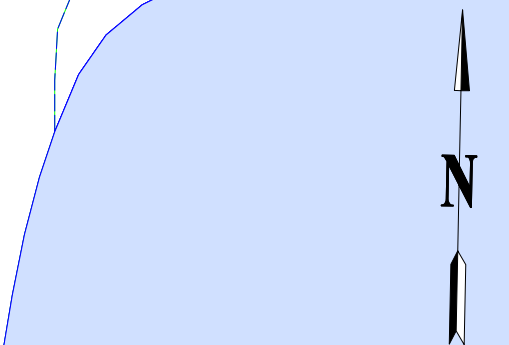
Lake

ABANDONED MINE

R

ABANDONED MINE

MINE



Minni\_Moore\_Soils\_2007 by As\_ppr

|   |              |
|---|--------------|
| ● | 38 to 99,999 |
| ● | 28 to 38     |
| ● | 19 to 28     |
| ● | 15 to 19     |
| ● | 11 to 15     |
| ● | 0.001 to 11  |

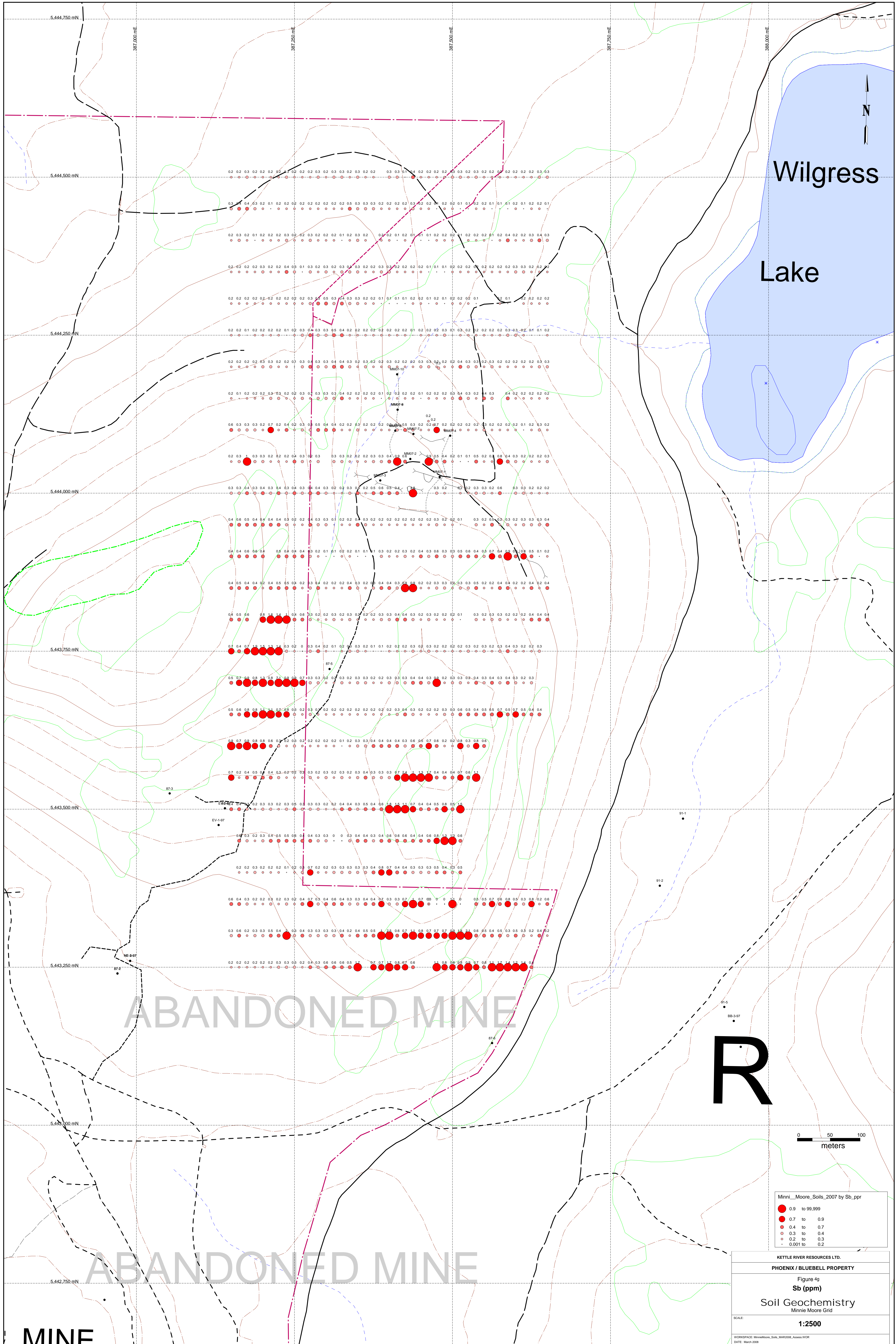
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4f  
**As (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE:  
**1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





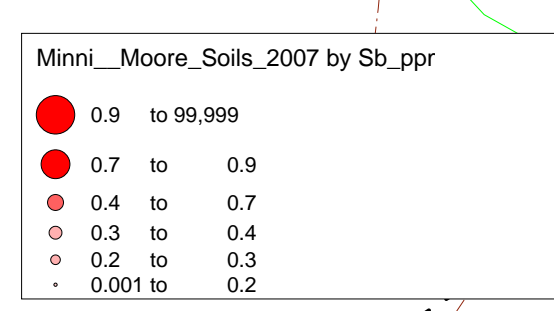
Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE



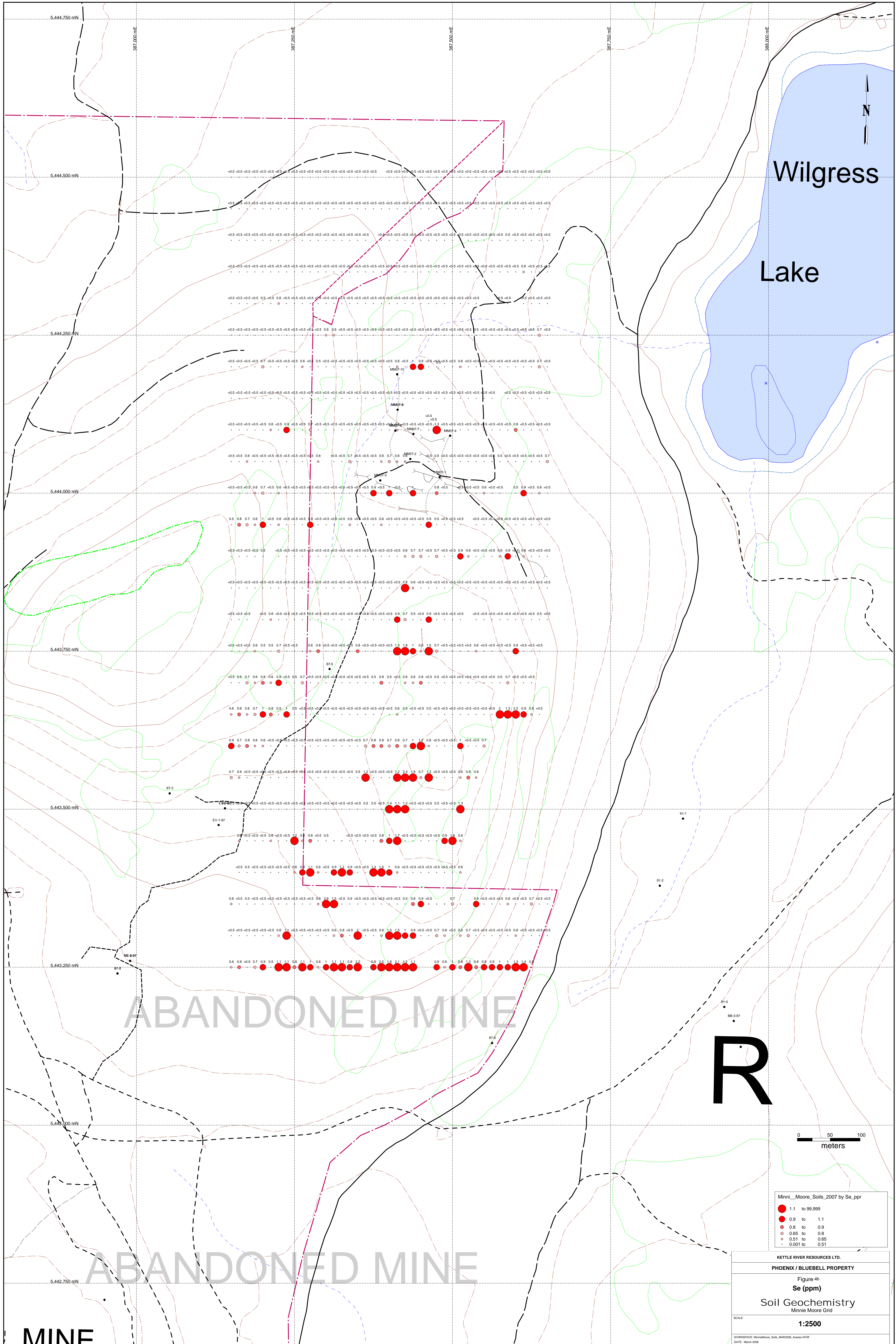
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4g  
**Sb (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE:  
**1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE

R

Minni\_Moore\_Soils\_2007 by Se\_ppm

- 1.1 to 99,999
- 0.9 to 1.1
- 0.8 to 0.9
- 0.65 to 0.8
- 0.51 to 0.65
- 0.001 to 0.51

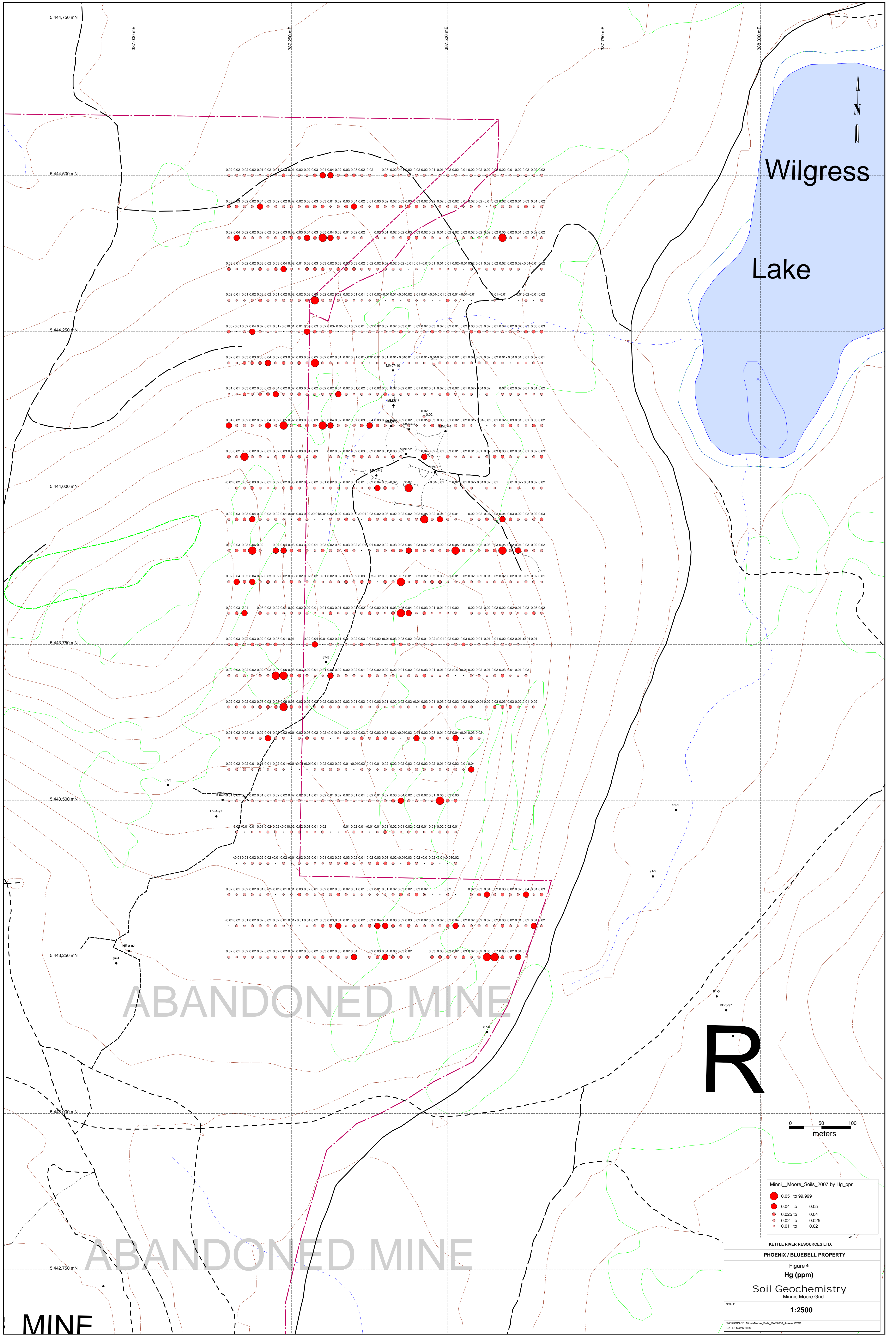
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4h  
**Se (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE: 1:2500

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





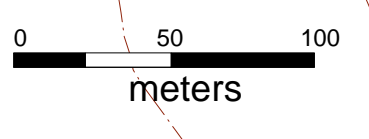
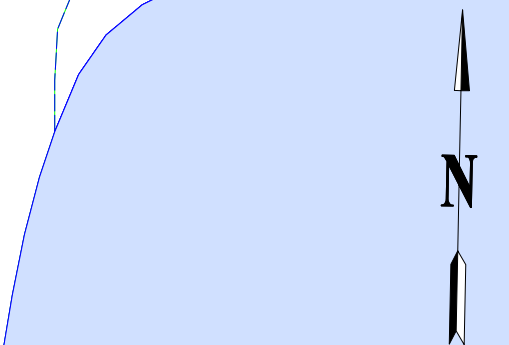
Wilgress

Lake

ABANDONED MINE

ABANDONED MINE

MINE



| Minni_Moore_Soils_2007 by Hg_ppm |                |
|----------------------------------|----------------|
| Large Red Dot                    | 0.05 to 99,999 |
| Medium Red Dot                   | 0.04 to 0.05   |
| Small Red Dot                    | 0.025 to 0.04  |
| Tiny Red Dot                     | 0.02 to 0.025  |
| White Dot                        | 0.01 to 0.02   |

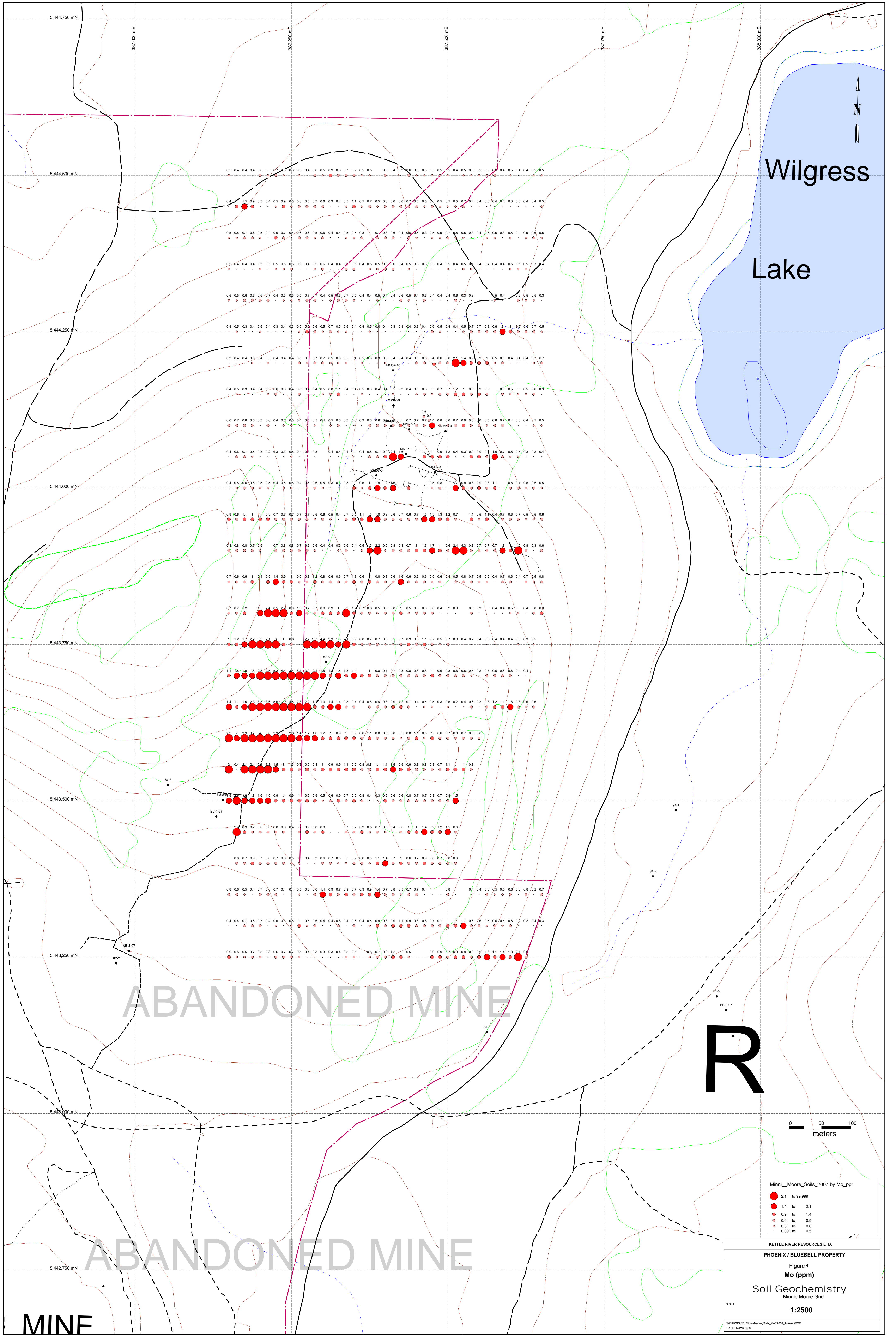
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4i  
**Hg (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE: **1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





Wilgress

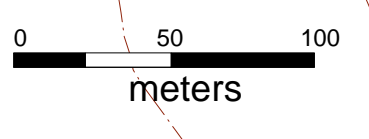
Lake

ABANDONED MINE

ABANDONED MINE

MINE

R



Minni\_Moore\_Soils\_2007 by Mo\_ppr

- 2.1 to 99,999
- 1.4 to 2.1
- 0.9 to 1.4
- 0.5 to 0.9
- 0.5 to 0.6
- 0.001 to 0.5

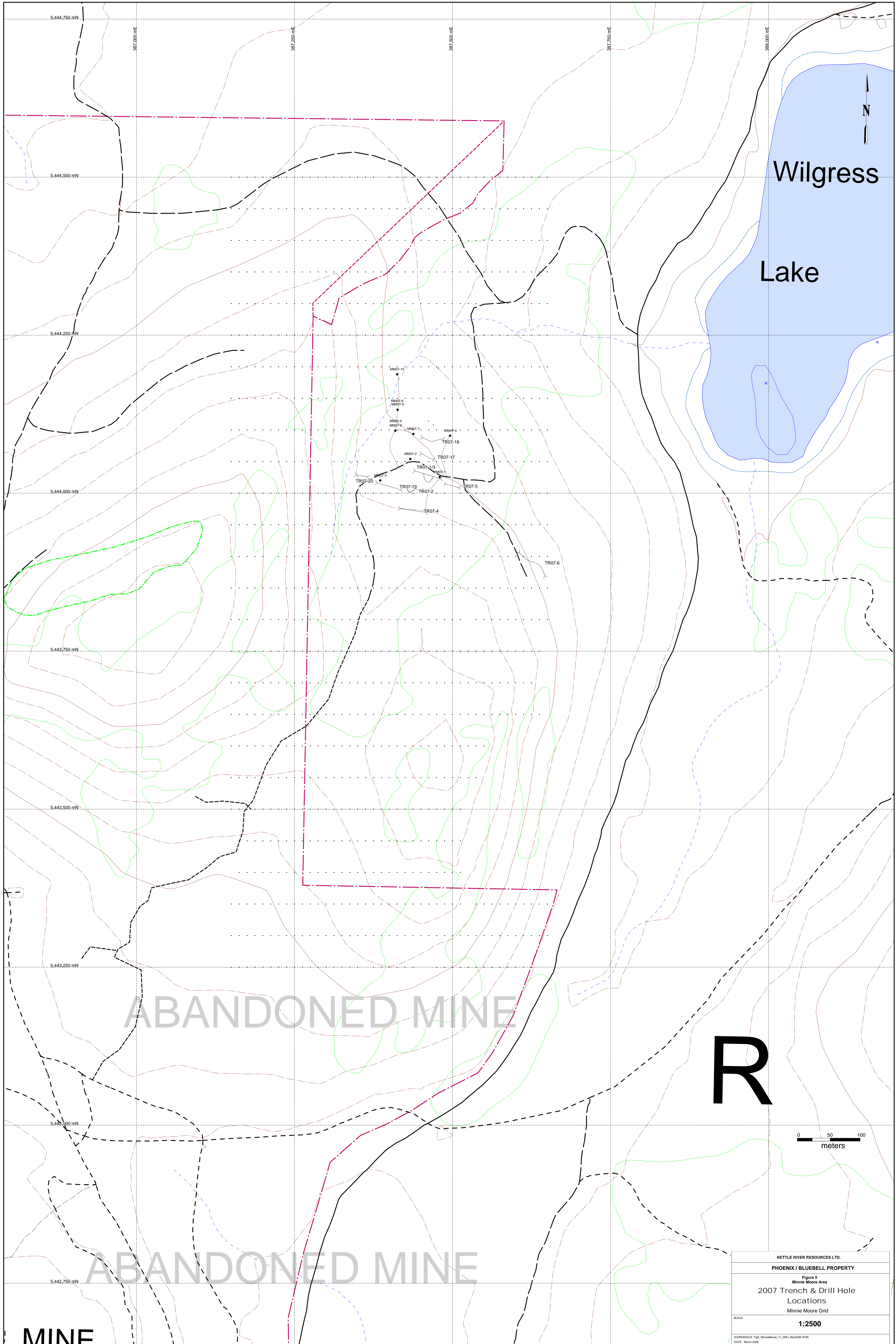
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY

Figure 4j  
**Mo (ppm)**  
 Soil Geochemistry  
 Minnie Moore Grid

SCALE:  
**1:2500**

WORKSPACE: MinnieMoore\_Soils\_MAR2008\_Assess.WOR  
 DATE: March 2008





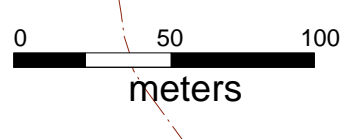
Wilgress  
Lake

ABANDONED MINE

R

ABANDONED MINE

MINE



|                                                            |        |
|------------------------------------------------------------|--------|
| KETTLE RIVER RESOURCES LTD.                                |        |
| PHOENIX / BLUEBELL PROPERTY                                |        |
| Figure 5<br>Minnie Moore Area                              |        |
| 2007 Trench & Drill Hole<br>Locations<br>Minnie Moore Grid |        |
| SCALE:                                                     | 1:2500 |
| WORKSPACE: Figs_Mine\Moore_TL_DD4_Mar2008.WOR              |        |
| DATE: March 2008                                           |        |



**LEGEND**

**Quaternary Alluvium**  
Qal

**EOCENE**

**E1a** Pinkish brown Kspar megacrystic +/- biotite phytic syenite. Typically fine grained and non-magnetic. Narrow dykes and chilled margins of this unit are muddy brown Kspar phytic "subvolcanic". Younger than E2 and older than E1b.

**E1b** Pinkish brown hypidiomorphic syenite. Fine to medium grained, typically moderately magnetic, feldspar (plag + Kspar)-biotite-pyroxene and interstitial Kspar + plag. Local Kspar megacrysts. Cuts E1a and E2.

**E2** Dark grey, strongly magnetic hypidiomorphic feldspar-biotite-pyroxene monzonite to monodiorite. Older than E1a or E1b.

**E3** Maroon Formation. Andesite and trachyte flows.

**E4** Kettle River Formation. Volcaniclastic and arkosic sediments.

**CRETACEOUS & JURASSIC**

**cdj** Nelson Plutonic Complex. Granodiorite and diorite dykes and stocks.

**lp** Pale grey crowded feldspar porphyry - age uncertain. May be fine grained, hornblende-phytic in chilled margins.

**TRIASIC BROOKLYN FORMATION**

**Trib** Brooklyn volcanics. Fine grained, chloritic and locally calcareous greenstone +/- finely fsp phytic. Includes coarse volcanic breccia (Trib (bx). Locally grades to microdiorite (Tribm).

**Trib** Brooklyn limestone. Typically a massive white to grey, locally well bedded fine grained limestone with common minor interbedded calcareous sandstones. Locally contains abundant sand to pebble sized chert grains. Where these are chert pebbles are large and abundant, this unit becomes Trib(j) the "jelly bean conglomerate". Locally dark grey carbonaceous limestone, coarsely crystalline marl (Trib(m), coarse limestone breccia (Trib (bx) or siliceous pastel lime horfels or cherty limestone (Trib(c)).

**Trib** Brooklyn sediments. Includes (+/- tuffaceous) sandstone, siltstone, horfels and minor chert. May be siliceous, variably strongly calcareous to non-calcareous, may be massive or well bedded. Can contain narrow limestone interbeds.

**Tribm** Brooklyn conglomerate. Chert breccia (sharpstone conglomerate), tuffaceous sandstone and polymictic (+limestone cobble) conglomerate.

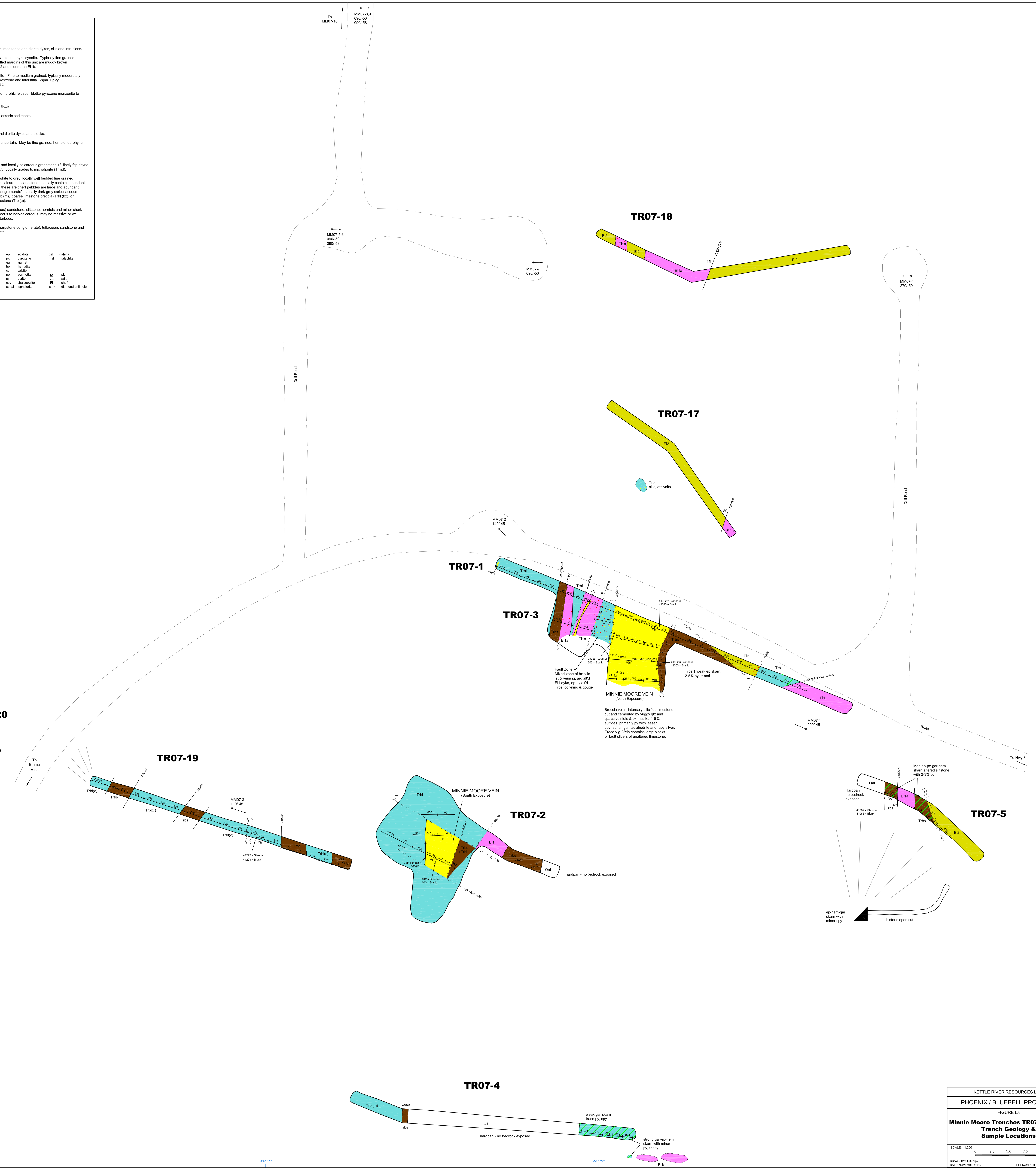
**Tribc** Brooklyn argillite and black siltstone.

|                                        |       |              |      |           |
|----------------------------------------|-------|--------------|------|-----------|
| slam                                   | ep    | spilone      | spil | galena    |
| argillite alteration                   | px    | pyroxene     | mil  | malachite |
| silicified                             | gr    | garnet       | mu   |           |
| quartz or intense silicification       | he    | hercynite    |      |           |
| massive or semi-massive sulfides       | cc    | calcite      |      |           |
| intensity of bedding/contact           | py    | pyrite       |      |           |
| strike-slip of joint/fabulation        | cpy   | chalcopyrite |      |           |
| fault - high angle or unknown          | sphal | sphalerite   |      |           |
| fault - low angle                      |       |              |      |           |
| concord - inferred, assumed or unknown |       |              |      |           |

5444100

5444200

5444300



**TR07-20**

6m deep  
no bedrock  
water seeping in

**TR07-2**

hardpan - no bedrock exposed

**TR07-5**

ep-hem-gar  
skarn with  
minor cpy

hardpan  
no bedrock  
exposed

historic open cut

**TR07-4**

weak gar skarn  
trace py, cpy

strong gar-ep-hem  
skarn with minor  
py, tr cpy

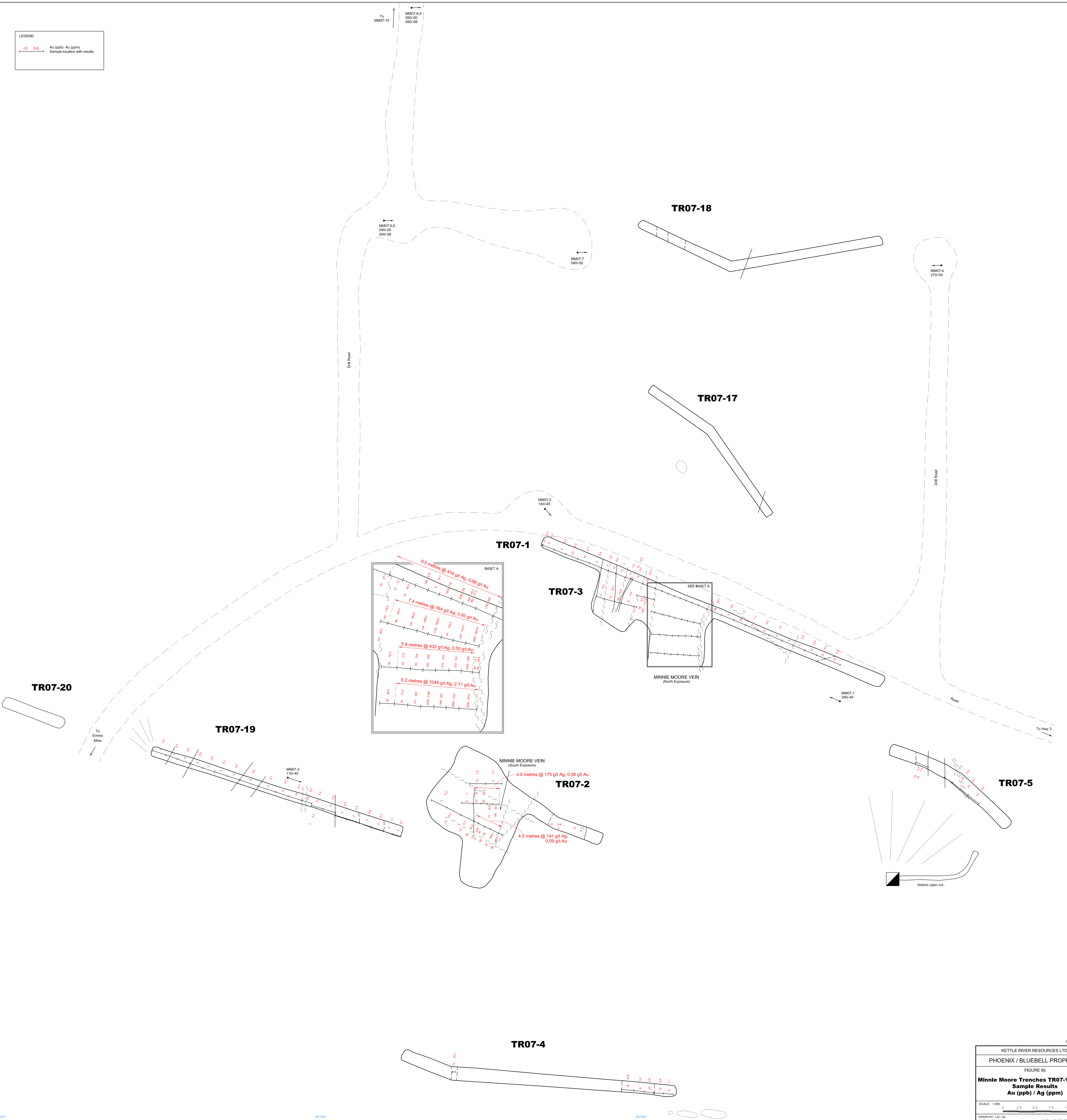
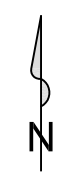
|                                                                                            |                               |
|--------------------------------------------------------------------------------------------|-------------------------------|
| NAD 83, Zone 11                                                                            |                               |
| KETTLE RIVER RESOURCES LTD.                                                                |                               |
| PHOENIX / BLUEBELL PROPERTY                                                                |                               |
| FIGURE 6a                                                                                  |                               |
| <b>Minnie Moore Trenches TR07-1-5; 17-20<br/>Trench Geology &amp;<br/>Sample Locations</b> |                               |
| SCALE: 1:200                                                                               | 0 2.5 5.0 7.5 10m             |
| DRAWN BY: LJC/ep                                                                           | FILENAME: TR07-1-5; 17-20.DWG |
| DATE: NOVEMBER 2007                                                                        |                               |

387350

387400

387450

LEGEND  
 < 0.6 Au (ppb) Au (ppm)  
 Sample location with results



KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY  
 FIGURE 66  
**Minnie Moore Trenches TR07-1-5;17-20**  
**Sample Results**  
**Au (ppb) / Ag (ppm)**

SCALE: 1:200  
 0 2.5 5.0 7.5 10m

DRAWN BY: LJC/ep  
 DATE: MARCH 2008

FILENAME: H26-TR07-1-5, 17-20.DWG

387350

387420

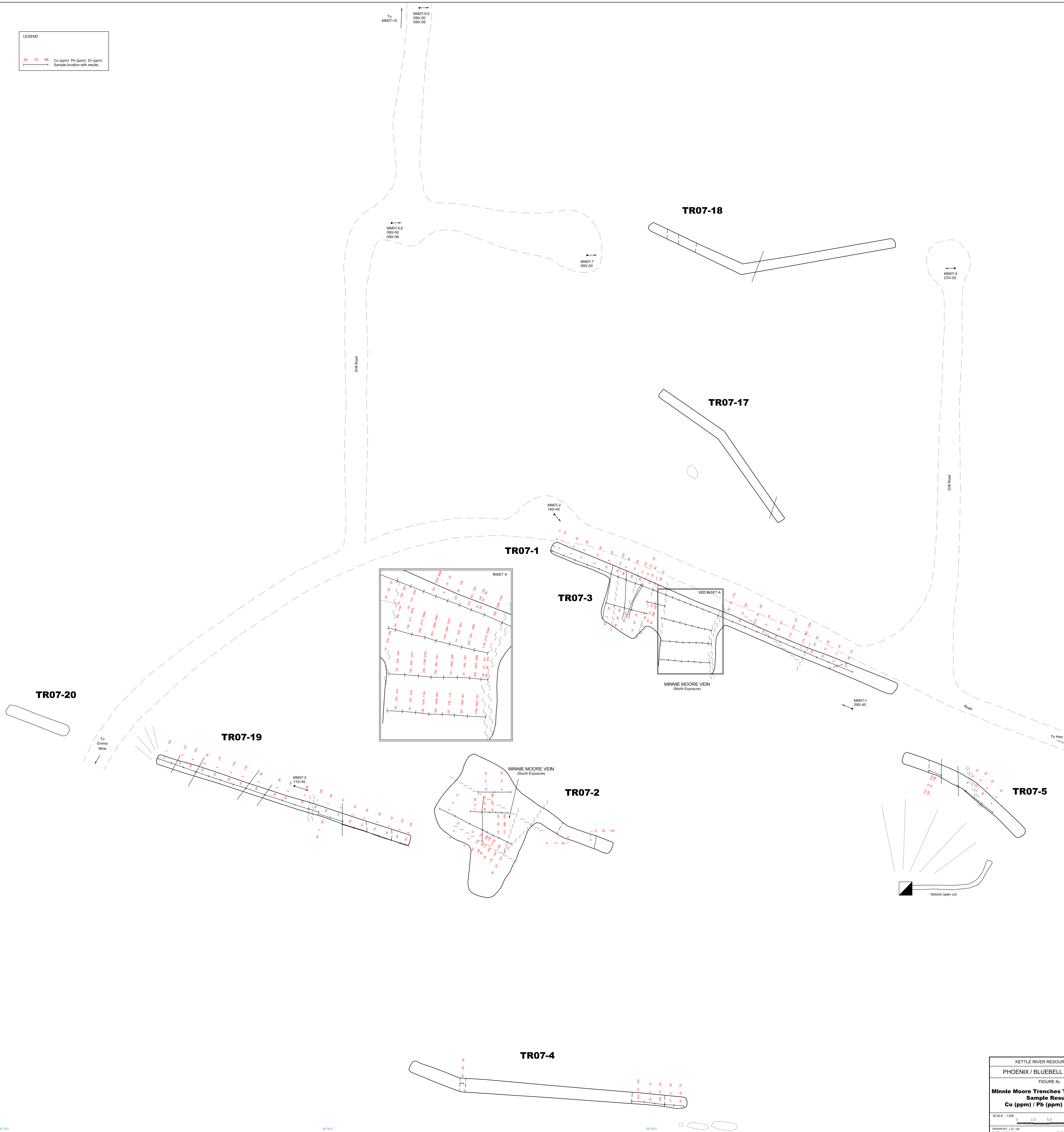
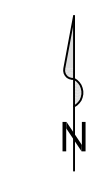
387450

NAD 83, Zone 11



**LEGEND**

34 13 98 Cu (ppm) Pb (ppm) Zn (ppm)  
 Sample location with results

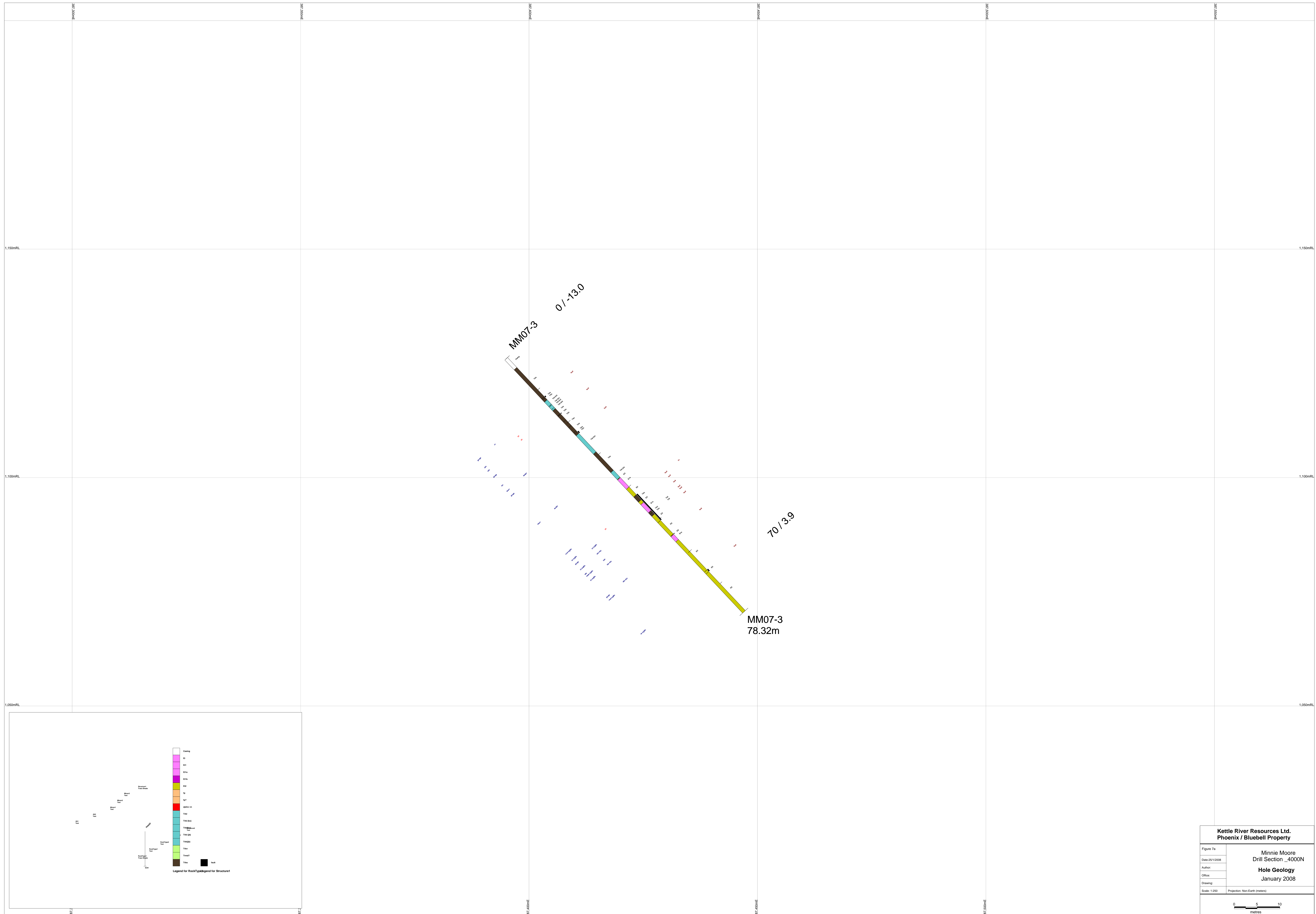


NAD 83, Zone 11

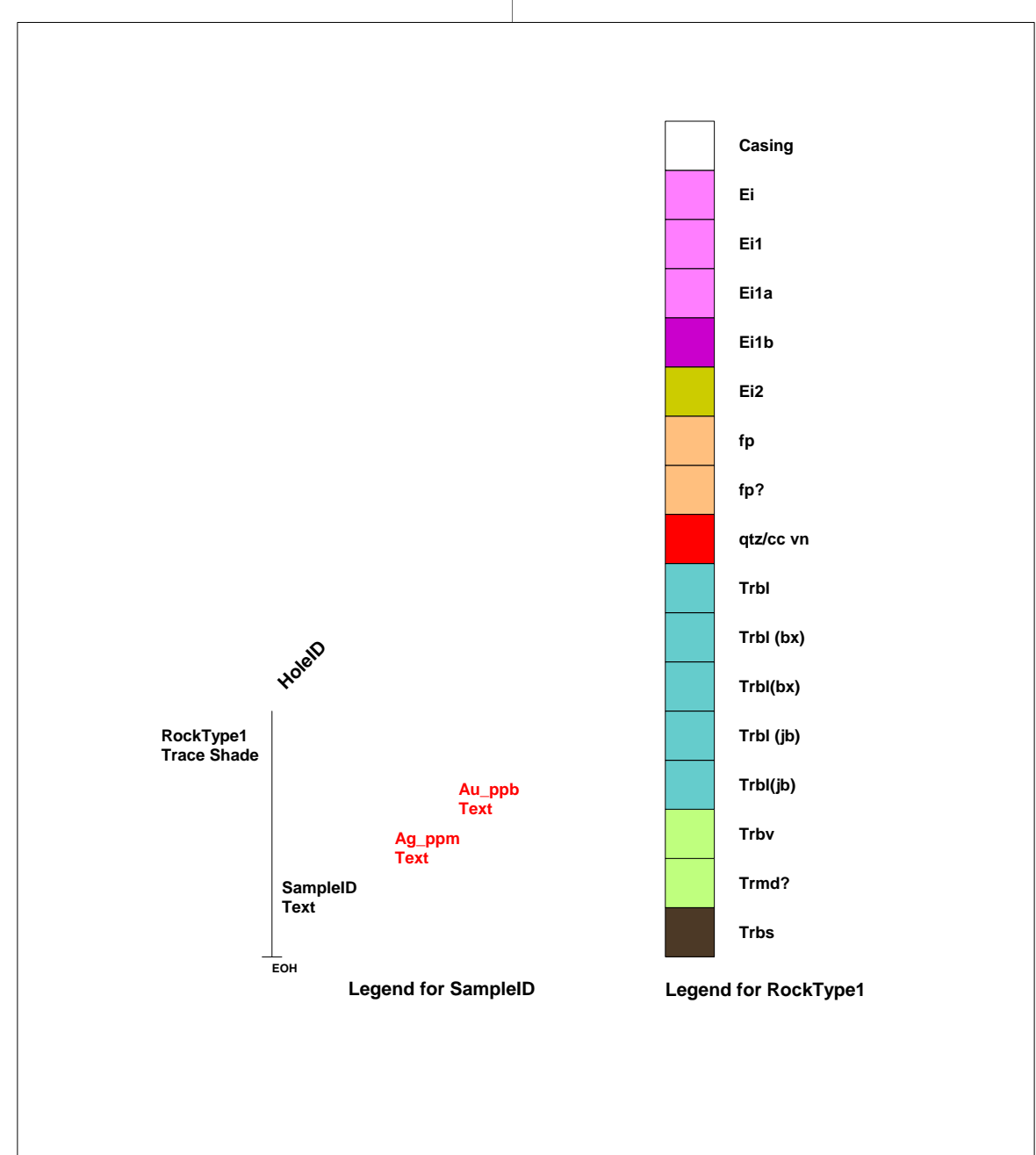
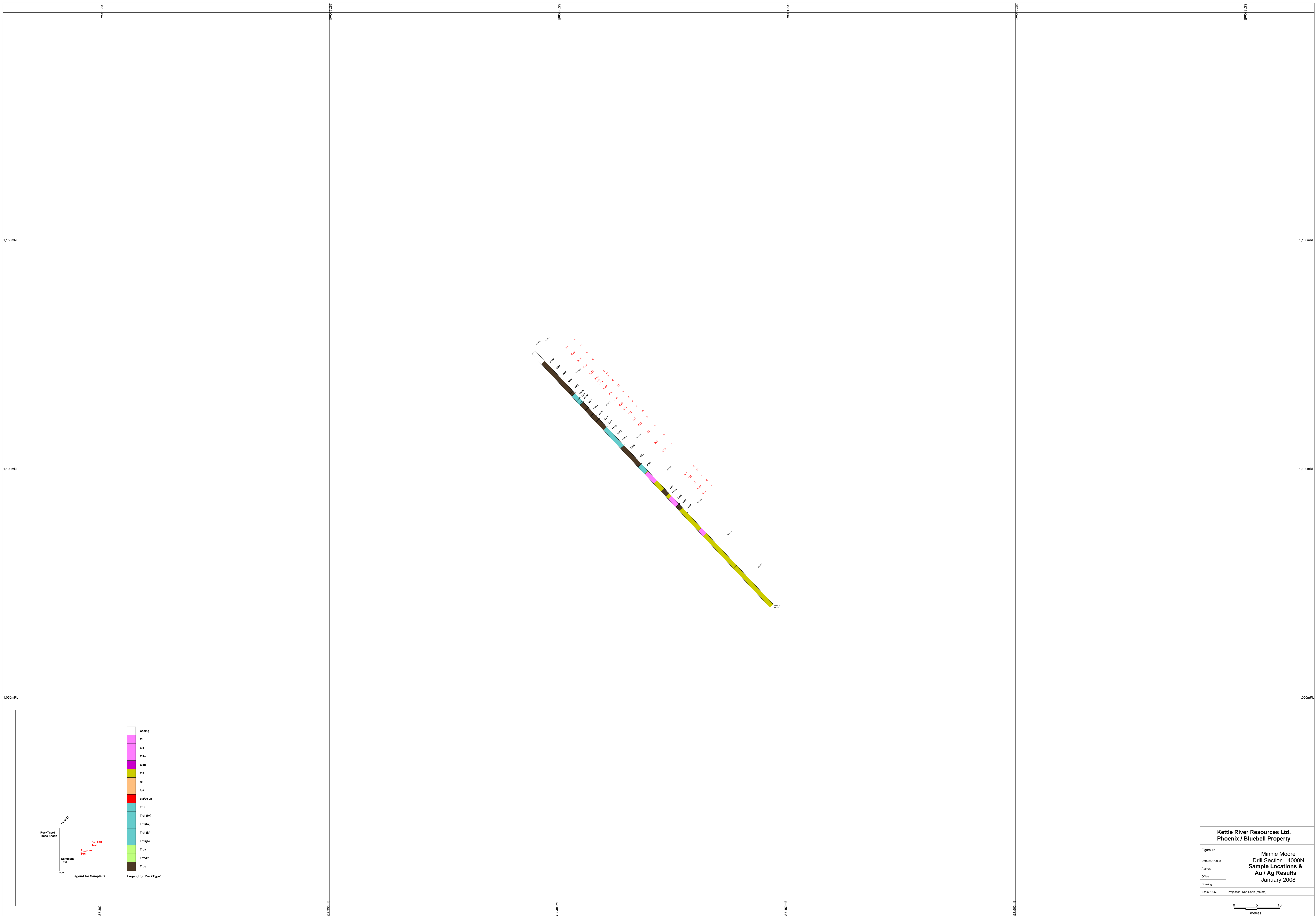
KETTLE RIVER RESOURCES LTD.  
 PHOENIX / BLUEBELL PROPERTY  
 FIGURE 6c  
**Minnie Moore Trenches TR07-1-5;17-20**  
**Sample Results**  
**Cu (ppm) / Pb (ppm) / Zn (ppm)**

SCALE: 1:200  
 0 2.5 5.0 7.5 10m

DRAWN BY: LJC/ep  
 DATE: MARCH 2008 FILENAME: H26-TR07-1-5, 17-20.DWG





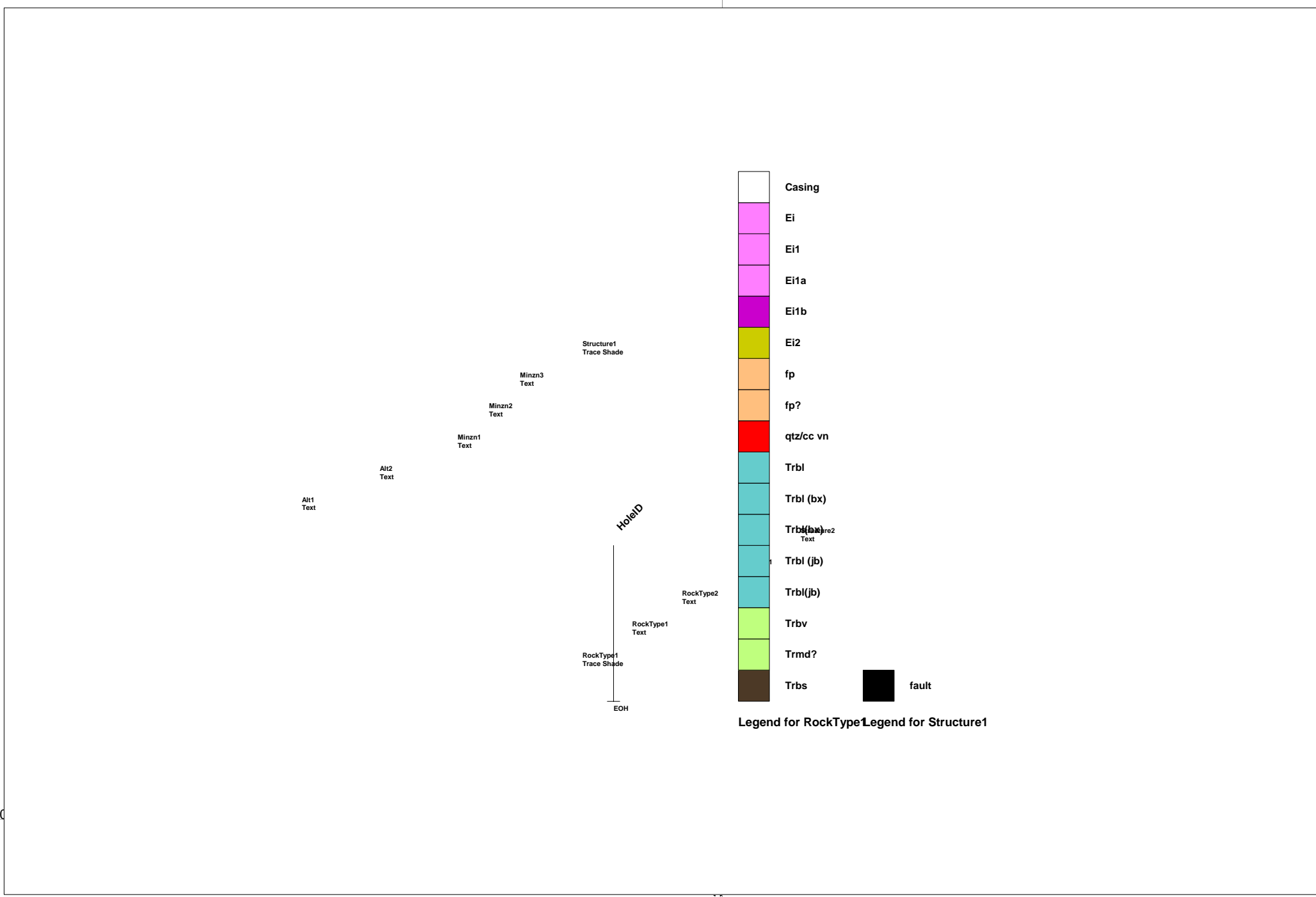
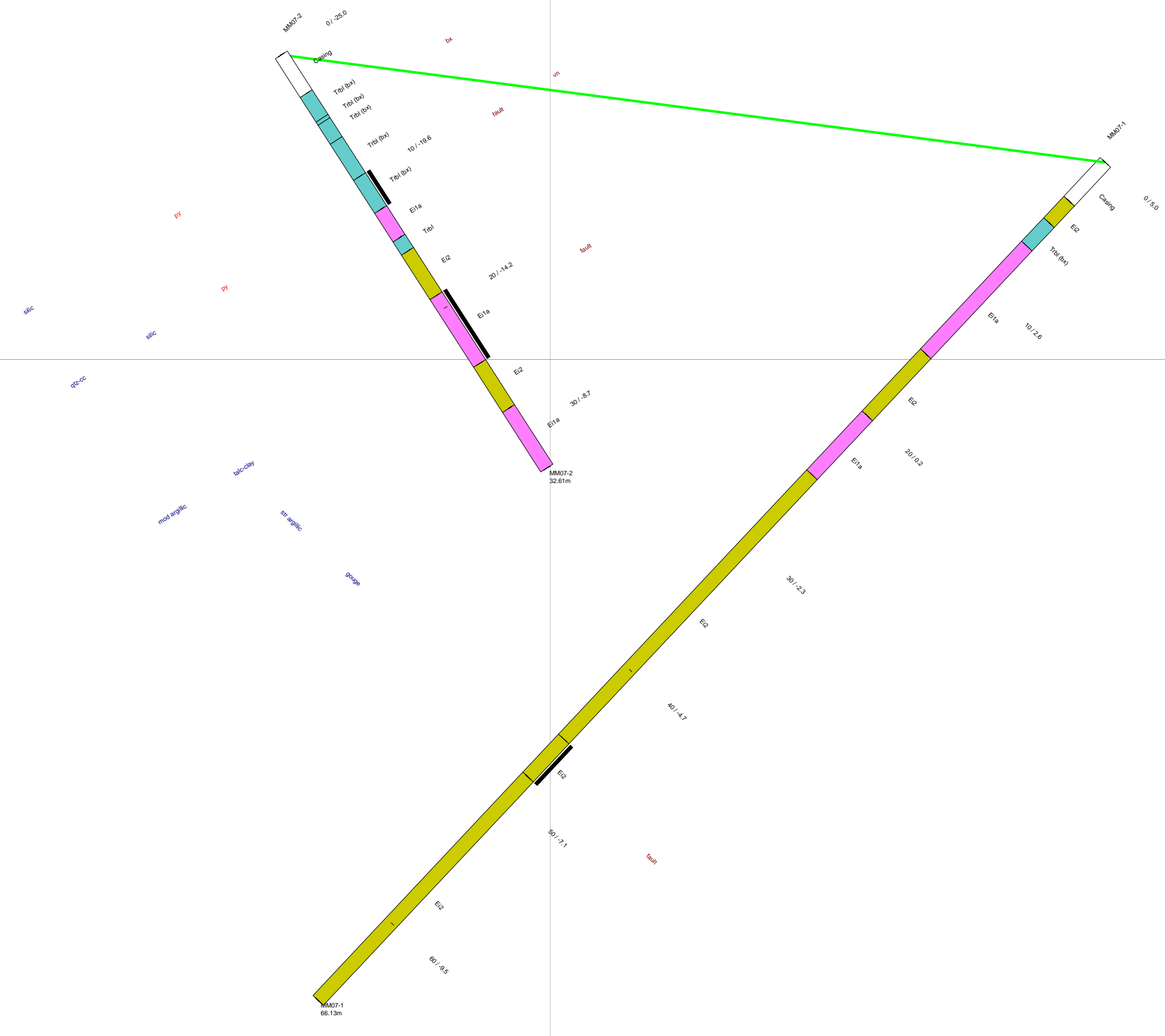


**Kettle River Resources Ltd.  
Phoenix / Bluebell Property**

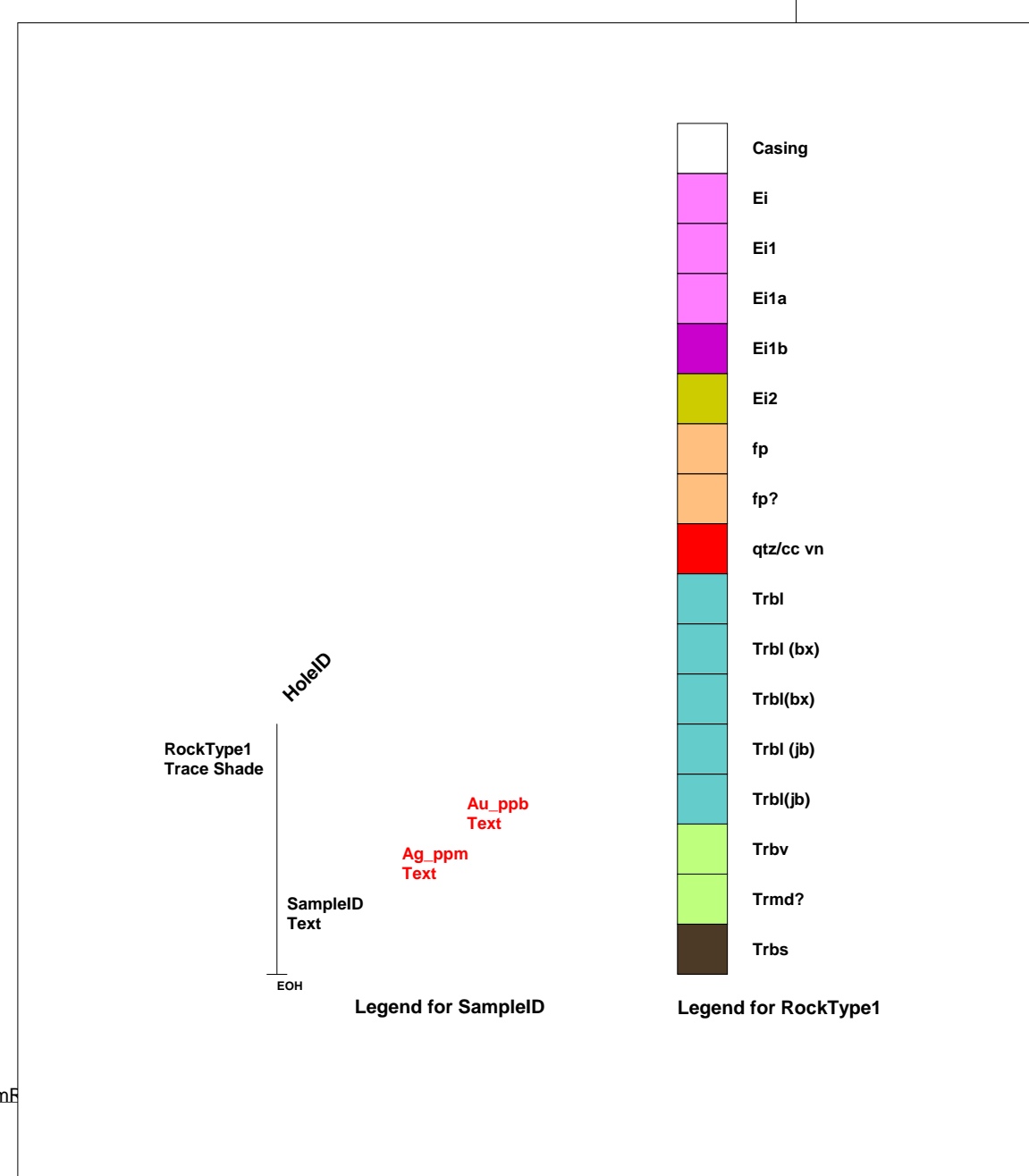
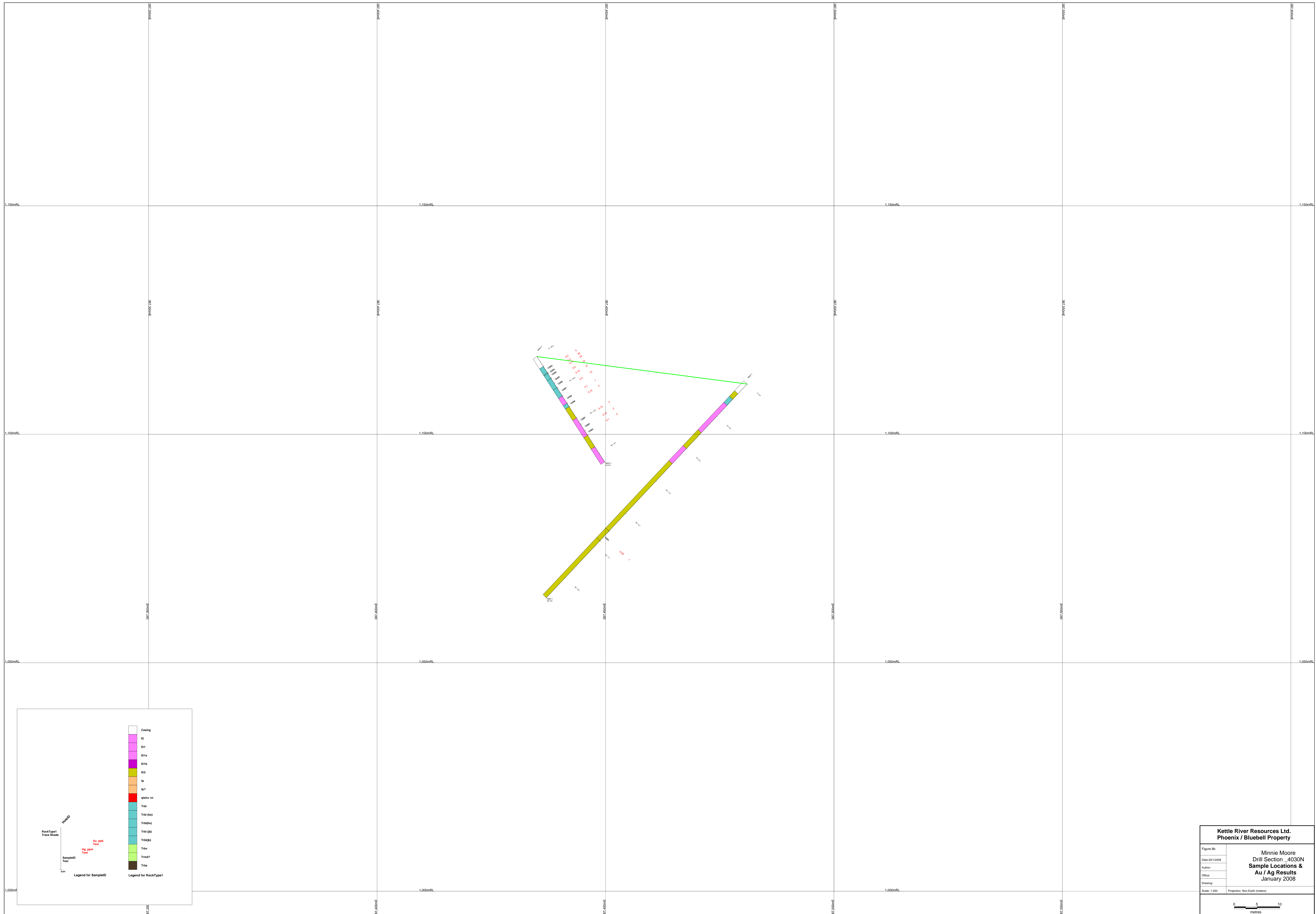
Figure 7b  
Date: 25/1/2008  
Author:  
Officer:  
Drawing:  
Scale: 1:250 Projection: Non-Earth (meters)

Minnie Moors  
Drill Section - 4000N  
Sample Locations &  
Au / Ag Results  
January 2008

0 5 10  
metres



|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| <b>Kettle River Resources Ltd.<br/>Phoenix / Bluebell Property</b> |                                      |
| Figure 8a                                                          | Minnie Moors<br>Drill Section _4030N |
| Date: 25/1/2008                                                    |                                      |
| Author:                                                            |                                      |
| Office:                                                            |                                      |
| Drawing:                                                           | <b>Hole Geology</b><br>January 2008  |
| Scale: 1:250                                                       | Projection: Non-Earth (meters)       |
| 0 5 10<br>metres                                                   |                                      |

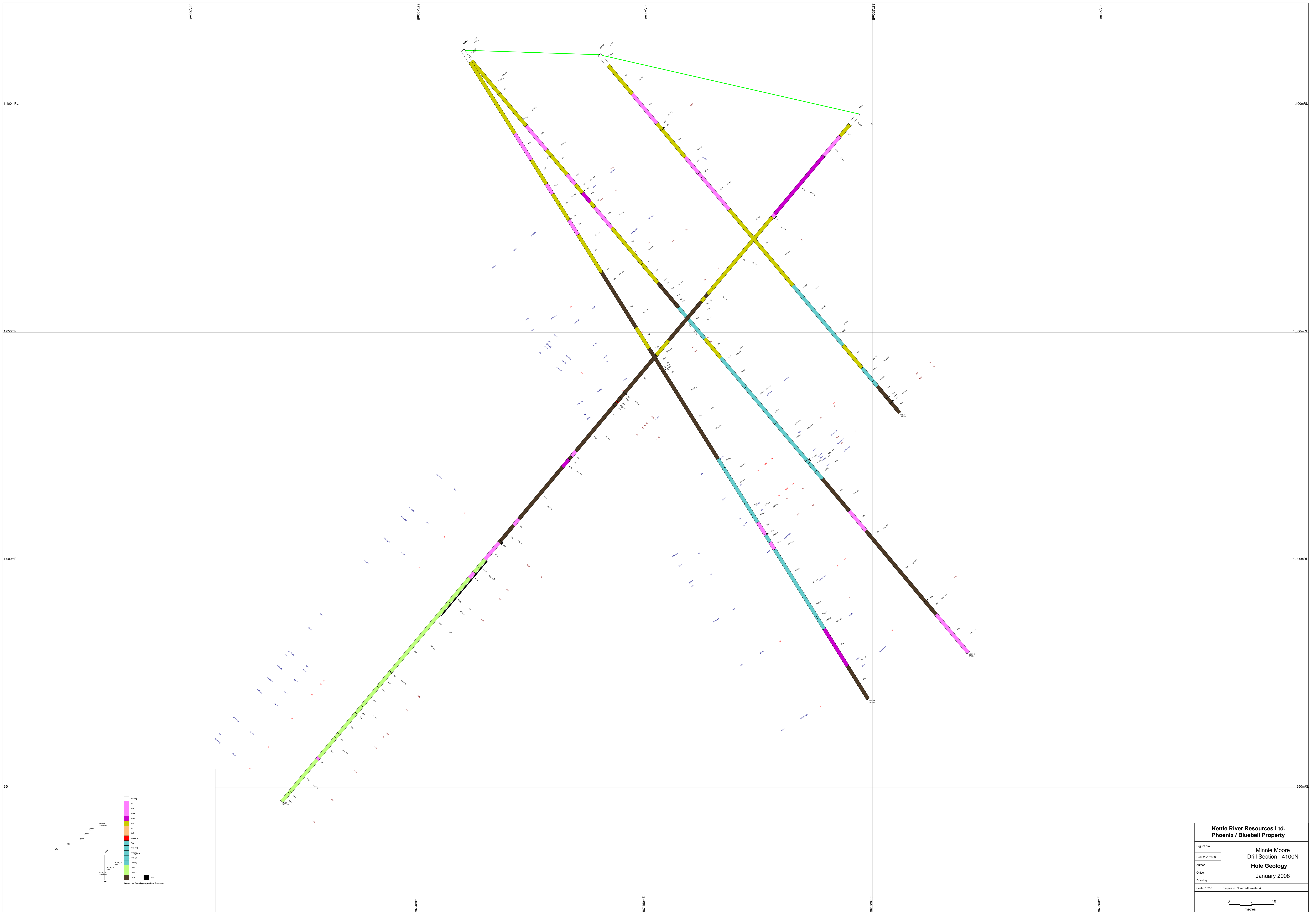


**Kettle River Resources Ltd.**  
**Phoenix / Bluebell Property**

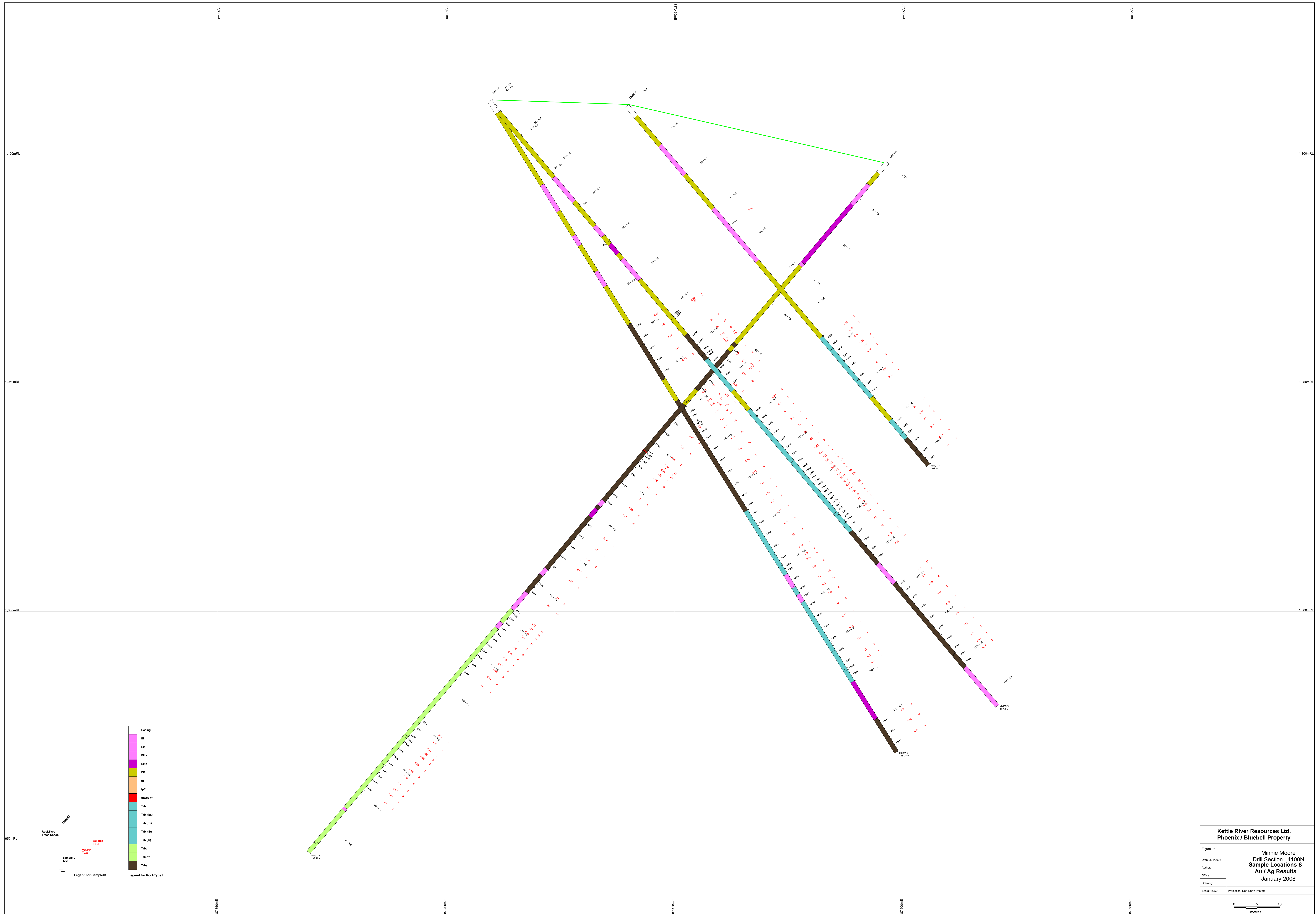
Figure 8b  
 Date: 25/1/2008  
 Author:  
 Officer:  
 Drawing:  
 Scale: 1:250 Projection: Non-Earth (meters)

Minnie Moors  
 Drill Section - 4030N  
**Sample Locations &  
 Au / Ag Results**  
 January 2008

0 5 10  
 metres







RockType  
Trace Shade

SampleID  
Test

Legend for SampleID

Legend for RockType

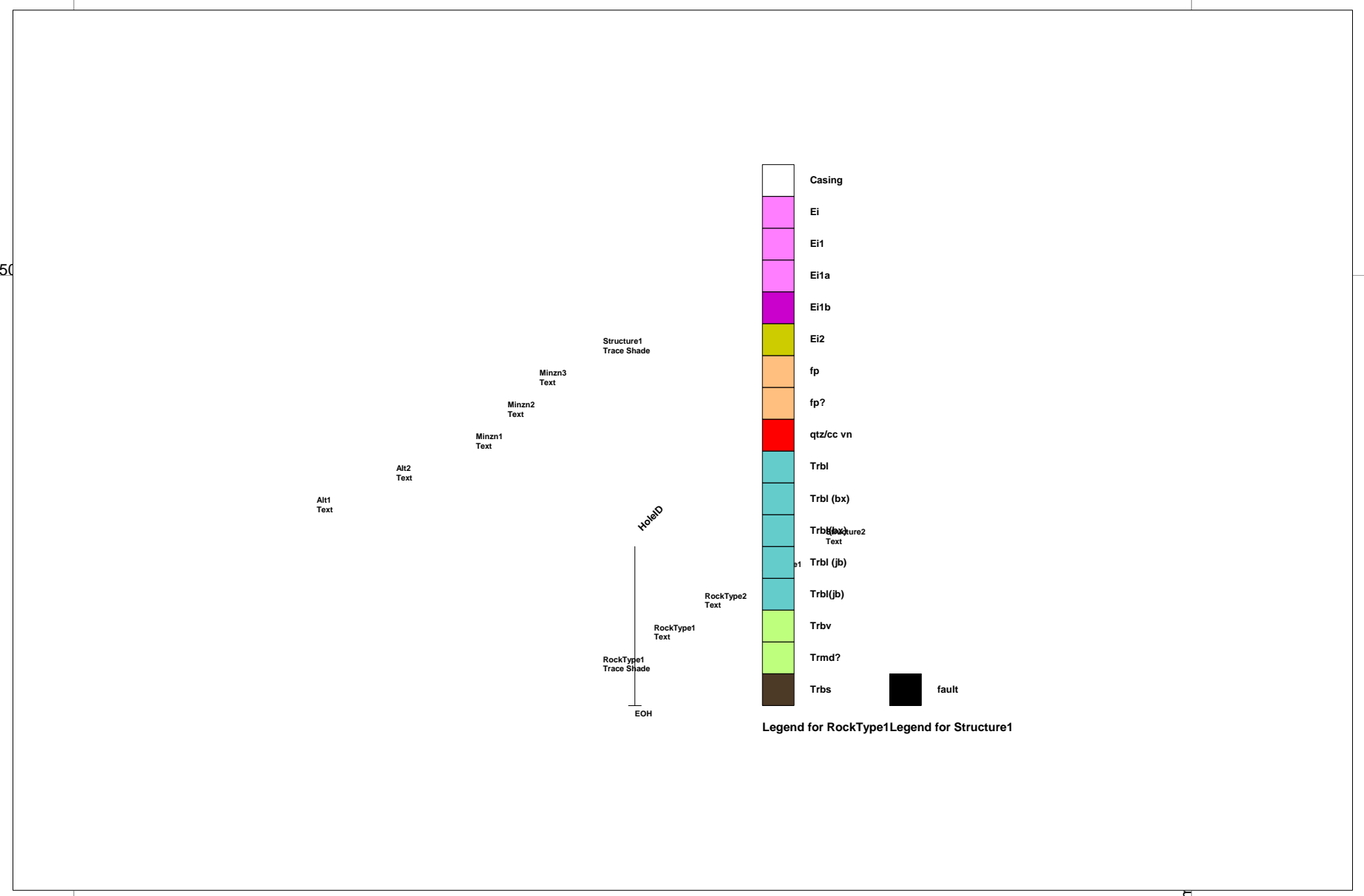
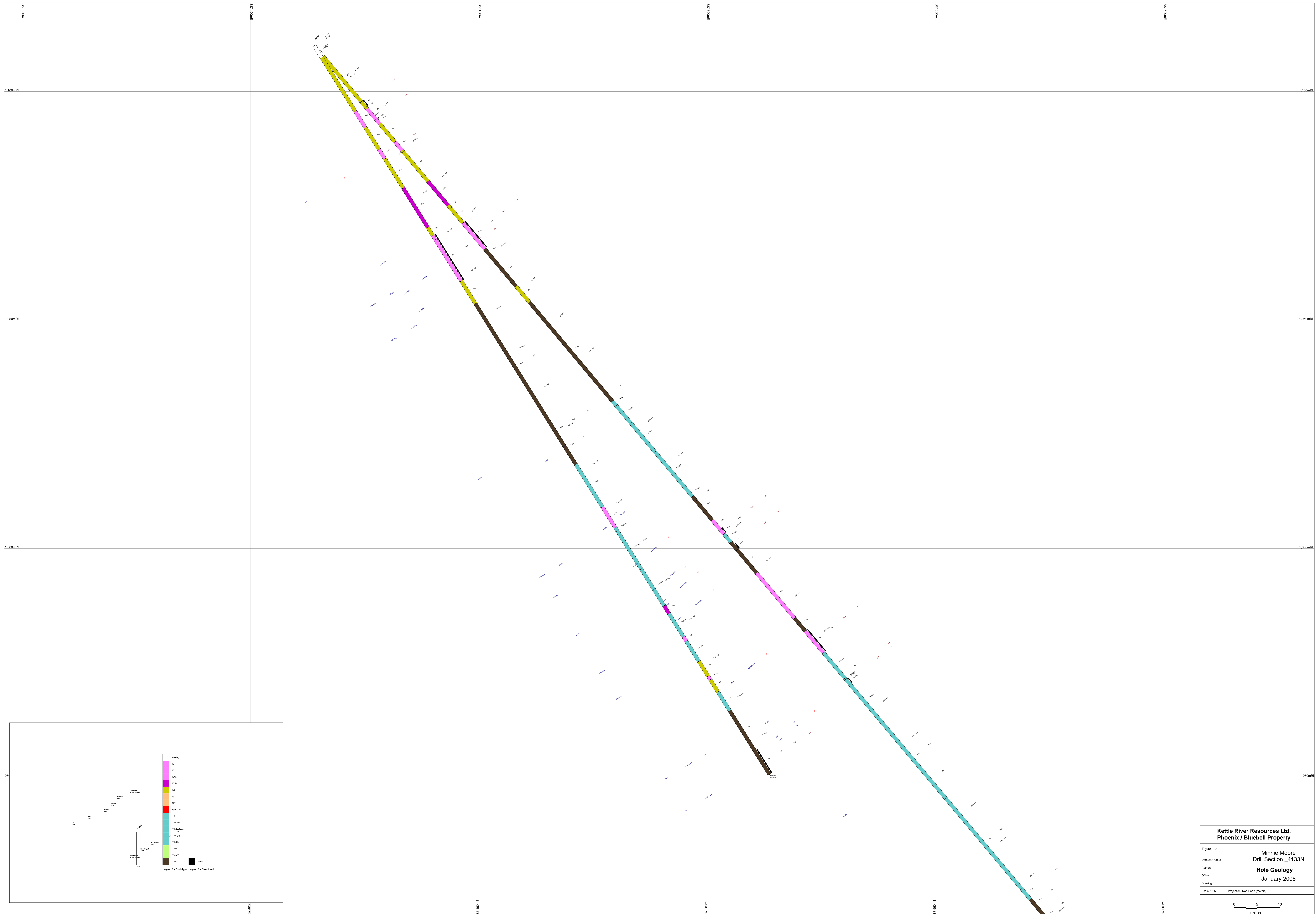
| RockType    | Color        |
|-------------|--------------|
| Casing      | White        |
| E1          | Pink         |
| E11         | Light Pink   |
| E1a         | Light Purple |
| E1b         | Light Blue   |
| E2          | Yellow       |
| fr          | Orange       |
| fr?         | Light Orange |
| quartz vein | Red          |
| T1a1        | Light Green  |
| T1a1(b)     | Light Blue   |
| T1a1(c)     | Light Cyan   |
| T1a1(d)     | Light Green  |
| T1a1(e)     | Light Green  |
| T1a1(f)     | Light Green  |
| T1a1(g)     | Light Green  |
| T1a1(h)     | Light Green  |
| T1a1(i)     | Light Green  |
| T1a1(j)     | Light Green  |
| T1a1(k)     | Light Green  |
| T1a1(l)     | Light Green  |
| T1a1(m)     | Light Green  |
| T1a1(n)     | Light Green  |
| T1a1(o)     | Light Green  |
| T1a1(p)     | Light Green  |
| T1a1(q)     | Light Green  |
| T1a1(r)     | Light Green  |
| T1a1(s)     | Light Green  |
| T1a1(t)     | Light Green  |
| T1a1(u)     | Light Green  |
| T1a1(v)     | Light Green  |
| T1a1(w)     | Light Green  |
| T1a1(x)     | Light Green  |
| T1a1(y)     | Light Green  |
| T1a1(z)     | Light Green  |
| T1a2        | Light Green  |
| T1a3        | Light Green  |
| T1a4        | Light Green  |
| T1a5        | Light Green  |
| T1a6        | Light Green  |
| T1a7        | Light Green  |
| T1a8        | Light Green  |
| T1a9        | Light Green  |
| T1a10       | Light Green  |
| T1a11       | Light Green  |
| T1a12       | Light Green  |
| T1a13       | Light Green  |
| T1a14       | Light Green  |
| T1a15       | Light Green  |
| T1a16       | Light Green  |
| T1a17       | Light Green  |
| T1a18       | Light Green  |
| T1a19       | Light Green  |
| T1a20       | Light Green  |
| T1a21       | Light Green  |
| T1a22       | Light Green  |
| T1a23       | Light Green  |
| T1a24       | Light Green  |
| T1a25       | Light Green  |
| T1a26       | Light Green  |
| T1a27       | Light Green  |
| T1a28       | Light Green  |
| T1a29       | Light Green  |
| T1a30       | Light Green  |
| T1a31       | Light Green  |
| T1a32       | Light Green  |
| T1a33       | Light Green  |
| T1a34       | Light Green  |
| T1a35       | Light Green  |
| T1a36       | Light Green  |
| T1a37       | Light Green  |
| T1a38       | Light Green  |
| T1a39       | Light Green  |
| T1a40       | Light Green  |
| T1a41       | Light Green  |
| T1a42       | Light Green  |
| T1a43       | Light Green  |
| T1a44       | Light Green  |
| T1a45       | Light Green  |
| T1a46       | Light Green  |
| T1a47       | Light Green  |
| T1a48       | Light Green  |
| T1a49       | Light Green  |
| T1a50       | Light Green  |
| T1a51       | Light Green  |
| T1a52       | Light Green  |
| T1a53       | Light Green  |
| T1a54       | Light Green  |
| T1a55       | Light Green  |
| T1a56       | Light Green  |
| T1a57       | Light Green  |
| T1a58       | Light Green  |
| T1a59       | Light Green  |
| T1a60       | Light Green  |
| T1a61       | Light Green  |
| T1a62       | Light Green  |
| T1a63       | Light Green  |
| T1a64       | Light Green  |
| T1a65       | Light Green  |
| T1a66       | Light Green  |
| T1a67       | Light Green  |
| T1a68       | Light Green  |
| T1a69       | Light Green  |
| T1a70       | Light Green  |
| T1a71       | Light Green  |
| T1a72       | Light Green  |
| T1a73       | Light Green  |
| T1a74       | Light Green  |
| T1a75       | Light Green  |
| T1a76       | Light Green  |
| T1a77       | Light Green  |
| T1a78       | Light Green  |
| T1a79       | Light Green  |
| T1a80       | Light Green  |
| T1a81       | Light Green  |
| T1a82       | Light Green  |
| T1a83       | Light Green  |
| T1a84       | Light Green  |
| T1a85       | Light Green  |
| T1a86       | Light Green  |
| T1a87       | Light Green  |
| T1a88       | Light Green  |
| T1a89       | Light Green  |
| T1a90       | Light Green  |
| T1a91       | Light Green  |
| T1a92       | Light Green  |
| T1a93       | Light Green  |
| T1a94       | Light Green  |
| T1a95       | Light Green  |
| T1a96       | Light Green  |
| T1a97       | Light Green  |
| T1a98       | Light Green  |
| T1a99       | Light Green  |
| T1a100      | Light Green  |

**Kettle River Resources Ltd.  
Phoenix / Bluebell Property**

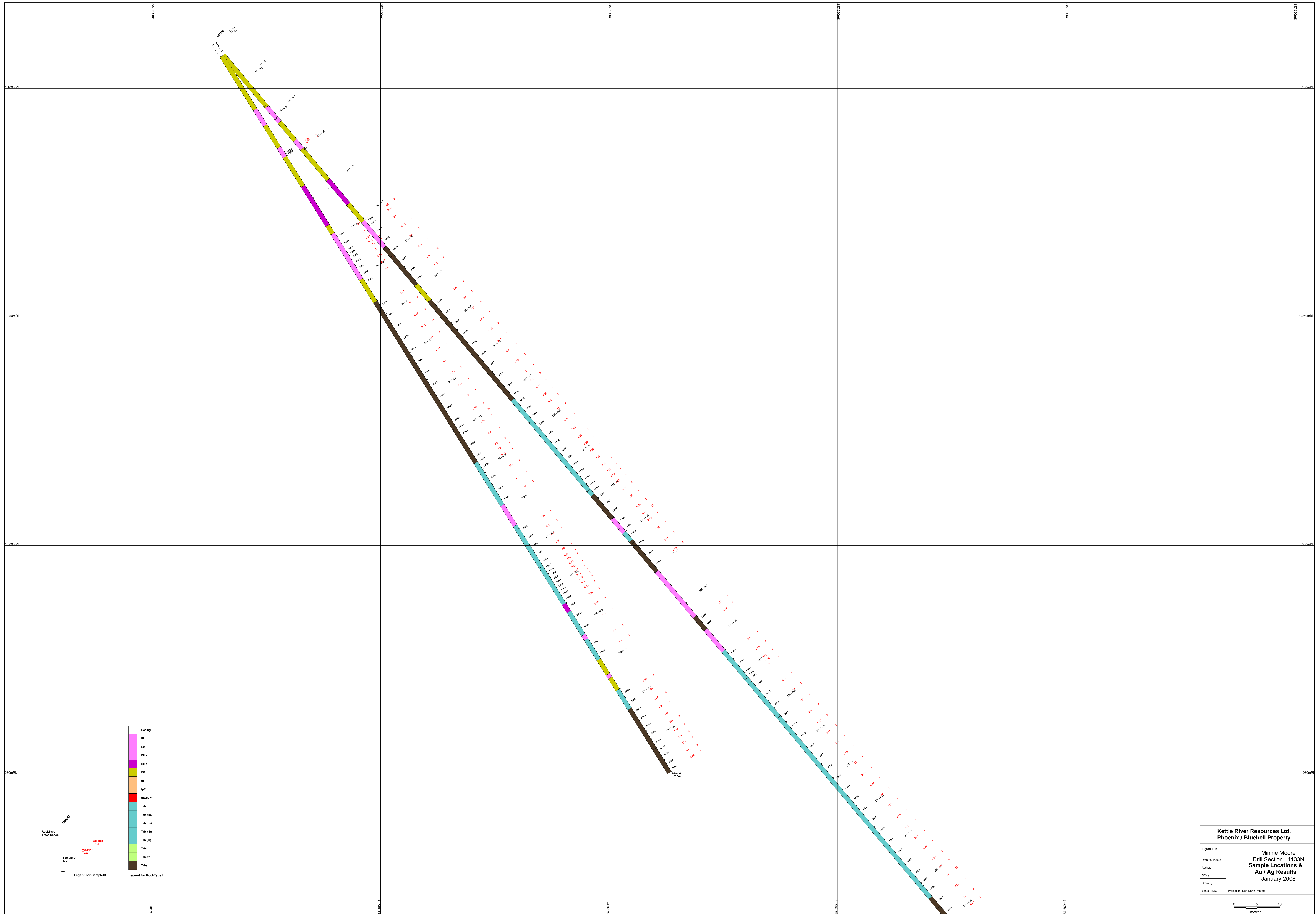
Figure 9b  
Date: 25/1/2008  
Author:  
Editor:  
Drawing:  
Scale: 1:250 Projection: Non-Cartesian

Minnie Moore  
Drill Section - 4100N  
Sample Locations &  
Au / Ag Results  
January 2008

0 5 10  
metres



|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| <b>Kettle River Resources Ltd.<br/>Phoenix / Bluebell Property</b> |                                      |
| Figure 10a                                                         | Minnie Moore<br>Drill Section _4133N |
| Date: 25/1/2008                                                    | Author:                              |
| Officer:                                                           | <b>Hole Geology</b>                  |
| Drawing:                                                           | January 2008                         |
| Scale: 1:250                                                       | Projection: Non-Earth (meters)       |
|                                                                    |                                      |



RockType  
Trace Shade

SampleID  
Test

Au\_ppb  
Test

Ag\_ppm  
Test

Legend for SampleID

Legend for RockType

- Casing
- E1
- E1a
- E1b
- E2
- E3
- T1a
- T1b
- T1c
- T1d
- T1e
- T1f

**Kettle River Resources Ltd.**  
**Phoenix / Bluebell Property**

Figure 10b

Date: 25/1/2008

Author:

Officer:

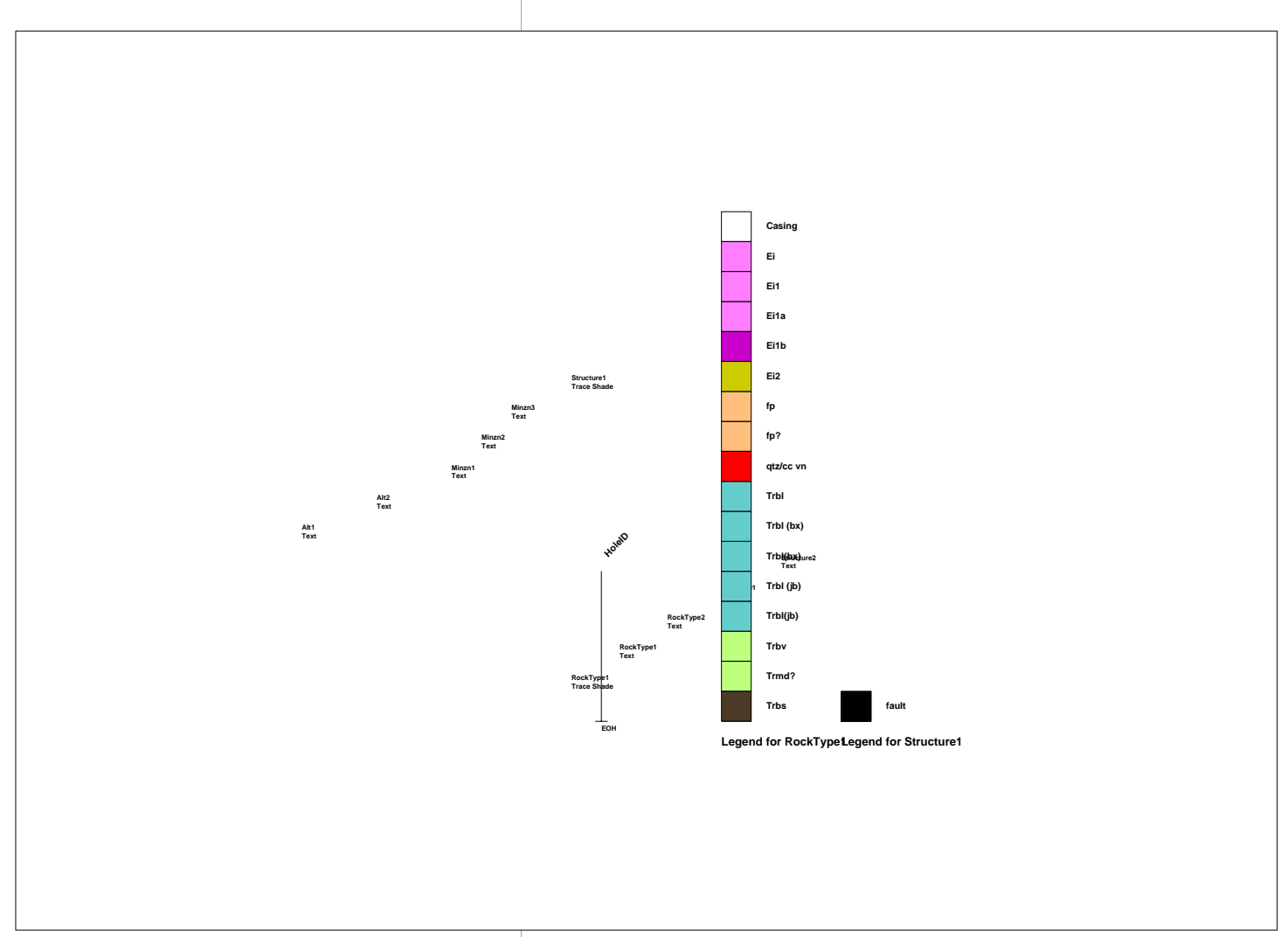
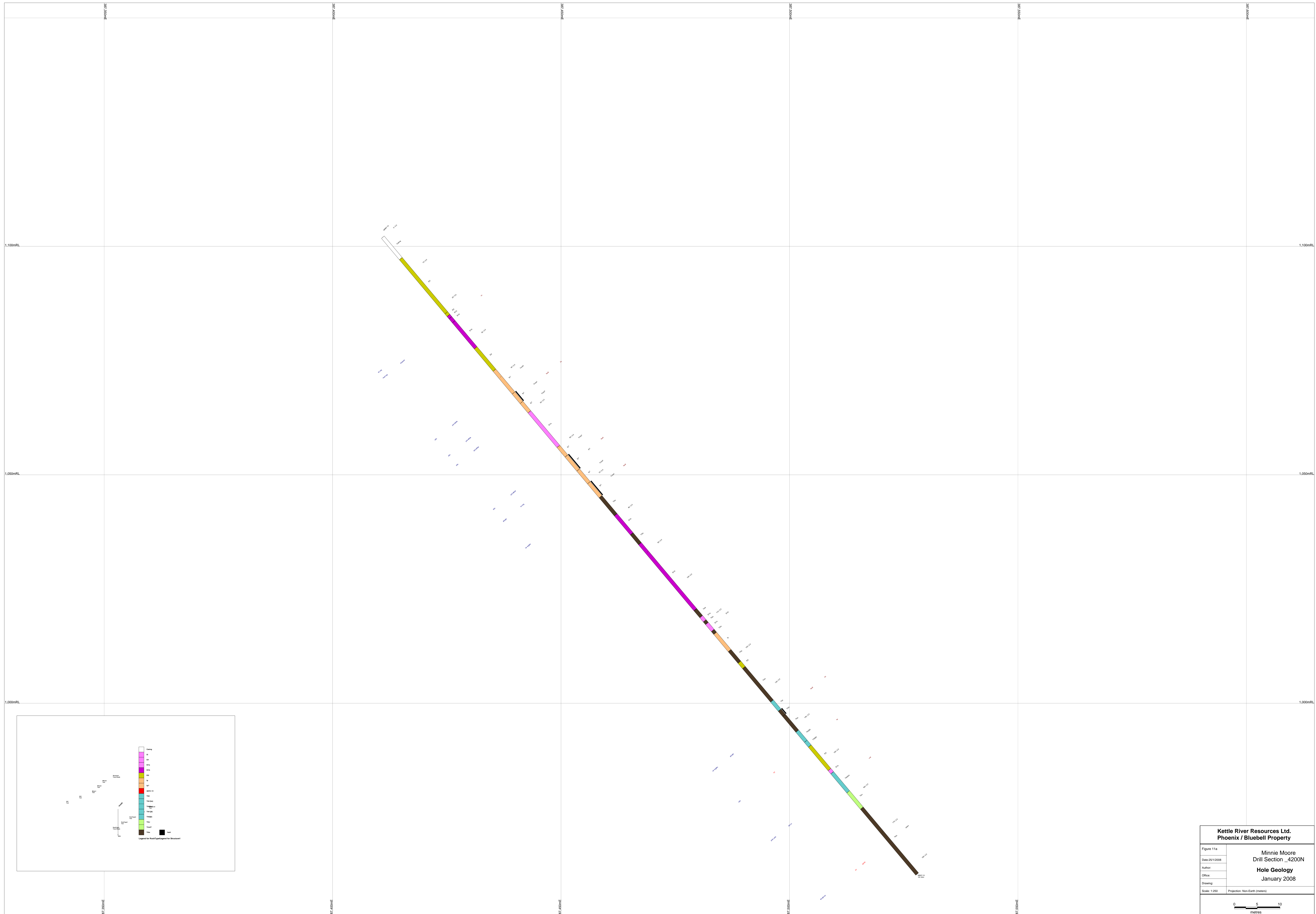
Drawing:

Scale: 1:200 Projection: Non-Cart (meters)

Minnie Moore  
Drill Section 4133N  
Sample Locations &  
Au / Ag Results  
January 2008

0 5 10  
metres





|                                                                    |                                      |
|--------------------------------------------------------------------|--------------------------------------|
| <b>Kettle River Resources Ltd.<br/>Phoenix / Bluebell Property</b> |                                      |
| Figure 11a                                                         | Minnie Moors<br>Drill Section _4200N |
| Date: 25/1/2008                                                    | Author:                              |
| Office:                                                            | <b>Hole Geology</b>                  |
| Drawing:                                                           | January 2008                         |
| Scale: 1:250                                                       | Projection: Non-Earth (metres)       |
|                                                                    |                                      |

