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ASSESSMENT REPORT

BC Geological Survey  
Assessment Report  
30169

**2007 DIAMOND DRILLING PROGRAM**

on the

**TASEKO PROPERTY**

Clinton Mining Division, British Columbia

For

**Great Quest Metals Ltd.**

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**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

April 14, 2008

**30,169**

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## **SUMMARY**

**Property** - The Taseko Property is located 225 km north of Vancouver in southwestern British Columbia along the eastern flank of the Coast Ranges. It consists of 21 mineral claims totalling 108 units (2700 hectares), situated within the Clinton Mining Division. Access is by helicopter from Williams Lake, Lillooet or Pemberton, or ATV from the north end of Taseko Lakes (36 km southeast to the property).

**History** – Gold was discovered at the Taylor-Windfall mine in the 1920's, but the copper-molybdenum potential of the area was not actively investigated until the period 1964-1976. Extensive geochemical, geophysical and drilling programs were carried out at that time. Epithermal gold mineralization was a target in the area in the 1980's. The former affiliates of Great Quest Metals Ltd., the present owner, and related companies, were active during the period 1988-1991, during which they compiled all previous data and implemented their own investigations into the copper-molybdenum-gold potential of the property.

**Property Geology** – The property occurs along an east-west contact between depositional units of the Tyaughton basin, a back-arc trough of Jurassic-Cretaceous age to the north, and the Cretaceous-age Coast Plutonic Complex to the south. The northwest trending Tchaikazan fault, a major right-lateral compressional fault system that developed in Early Tertiary times, traverses the northern portion of the property. Along the contact between the intrusive rock and units made up of volcanic-arc related breccias, agglomerates, tuffs and basic flows, is an intense alteration zone that can extend up to several kilometres distance from the contact.

**Mineralization** – Porphyry-style Cu-Au-(Mo) mineralization occurs in several zones across the property, both in altered volcanic units and intrusives. The largest mineral zone to date is the Empress Deposit with a calculated in-situ resource of 11M tons grading 0.61% Cu and 0.79 g/t Au (.023 oz/t), using a cut-off of 0.40% Cu (not copper equivalent). The Granite Creek Zone contains an upper Mo zone and a lower Cu/Au zone, both within intrusives. A hole drilled in 1991 intersected 133 m grading 0.029% Mo. A series of >200 ppm Cu soil anomalies extends over 2.5 km east from the Empress Deposit and has yet to be drill tested.

**2007 Program and Results** – Three diamond drill holes were drilled in the Empress Deposit and three in the Granite Creek Zone, totalling 1421.3 meters of NQ core. One hole in the Empress Deposit intersected the Lower North Zone and returned 7.3 metres of 0.63 % Cu and 0.8 g/t Au. One hole in the Granite Creek Zone intersected 75.9 metres of 0.027% Mo and, in another hole, 17.1 m of 0.18% Cu and 0.3 g/t Au.

**Recommendations - Empress Deposit:** Continue with in-fill and step-out drilling to add to the mineral resource of the deposit. **Granite Creek Zone:** Conduct step-out holes heading east-southeast from Holes 91-49 and 07-60, toward a magnetic low, given that there is little to no magnetite in the units hosting Mo mineralization in the Granite Creek Zone. **Cu Soil Anomalies:** Conduct spot drilling within the greatest concentration of Cu-soil anomalies that extend 2.4 km east from the Empress Deposit.

## **INTRODUCTION**

Ellen MacNeill was engaged by Great Quest Metals Ltd. to supervise and log core for a diamond drilling program on the Taseko Property located in southwestern British Columbia. Drilling commenced on November 15, 2007, and concluded on December 3, 2007. A total of 1421.3 meters in 6 holes was drilled in the Empress Deposit and Granite Creek Zone, using NQ-size core bits. This report describes the results of that program. Accommodation for the crew consisted of an exploration camp provided by Ranex Exploration Ltd. of Smithers, B.C., and the drilling contractor was Apex Diamond Drilling Ltd., also of Smithers, B.C. The camp was serviced by helicopters from Williams Lake and Lillooet, B.C.

## **LOCATION**

The Taseko Property is located 225 km north of Vancouver, 48 km northwest of Goldbridge, and approximately 160 km southwest of Williams Lake, in the Clinton Mining Division (Figure 1). It lies 10 km southeast of the southern end of Upper Taseko Lake, along the Taseko River at approximately 51°05' North Latitude and 123°24' West Longitude, on NTS Map 92O/3W.

## **ACCESS**

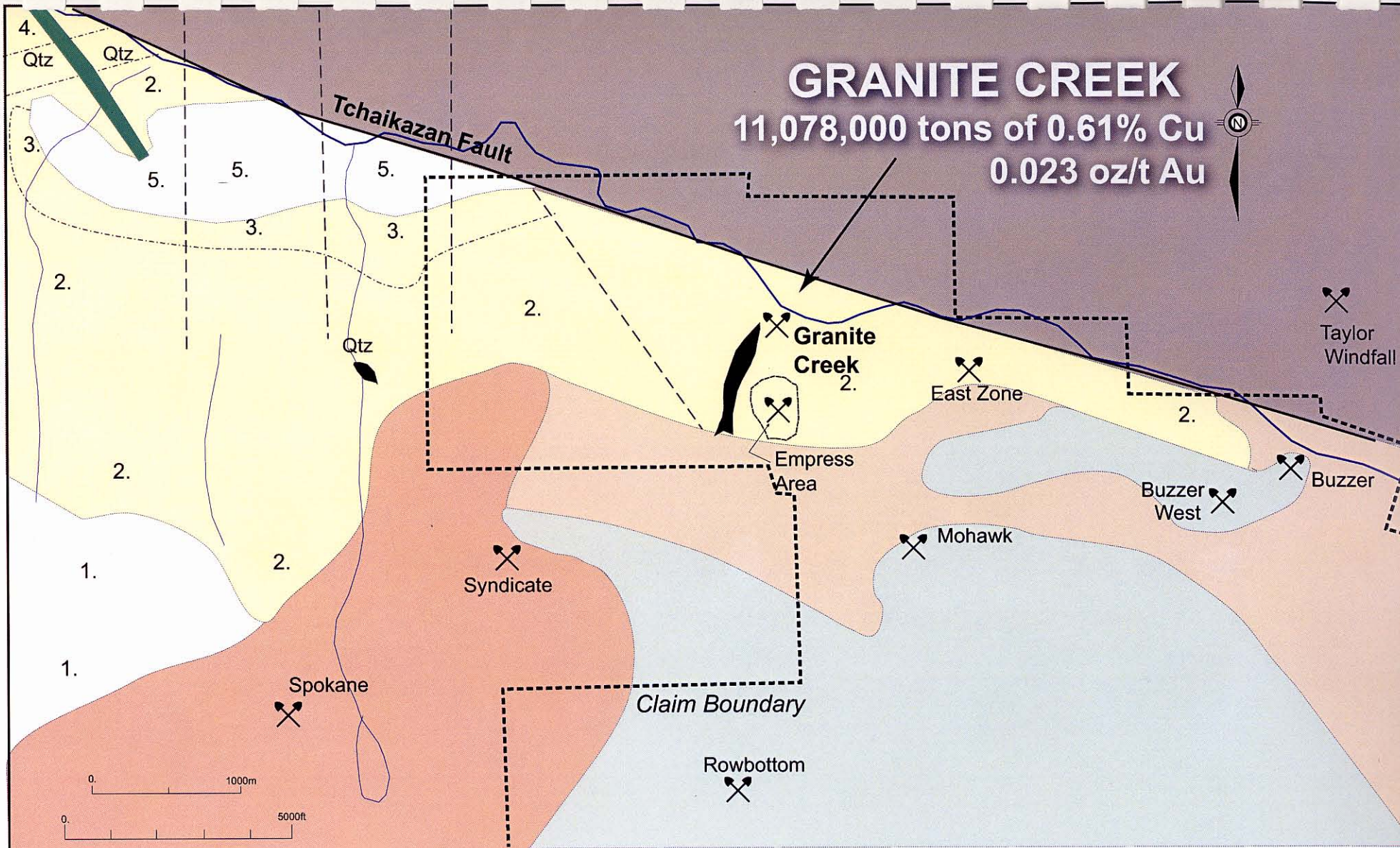
The property can be reached by helicopter from Williams Lake (80 minutes), Lillooet (45 minutes), Pemberton (50 minutes) and Vancouver (75 minutes). Access by road is via paved highway west from Williams Lake to Hanceville (BC Highway #20, 112 km), then southwesterly on the Nemiah Valley gravel road to Taseko River (90 km), then southerly along the Taseko River to Taseko Lakes (~80 km), and finally east along the Taseko River to the claims area (~36 km). The property contains a network of old mining roads in various stages of re-growth, allowing easy access to most drill sites and mineral prospects.

## **PHYSIOGRAPHY**

The Taseko Property lies within a broad, U-shaped valley occupied by the Taseko River. Topographic relief is about 800 m, ranging from 1500 m in the valley bottom to 2350 m at mountain crests. Elevations below 2100 m are forested by lodge pole pine, balsam fir and white pine. Glacial cover consists of morainal deposits and glacial drift that appears to be relatively thin but extensive (typical depth is 3-8 m). Rock exposures are scarce and generally confined to creeks and steep slopes. The snow-free period extends from late May until October or November. Temperatures range between -20°C in winter to +25°C in summer, with averages on the order of -9°C and +15°C, respectively.

# GRANITE CREEK

11,078,000 tons of 0.61% Cu  
0.023 oz/t Au



- Cretaceous-Tertiary**
- Quartz porphyry, rhyolite
  - Porphyritic dacite, latite
  - Phase 2 Granodiorite-Quartz
  - Phase 1 Monsonite
  - Undifferentiated intrusive
  - Upper Cretaceous**
  - Powell Creek Formation
  - Silverquick Formation

- Taylor Creek Formation**
- 5. Feldspar porphyry andesite-dacite
  - 4. Flow banded tuff, hematitic
  - 3. Bedded tuff
  - 2. Latite tuff, lithic tuff, crystal tuff pyritic
  - 1. Hornblende-feldspar porphyry

Taseko alteration zone

- Magnetic and/or topographic linears (structures)
- Resistivity linears (structures)

- Area of silicification
- Mineral Prospect
- Mineral Reserve Area

Figure 1

Great Quest Metals Ltd.

Taseko Property  
British Columbia

**Location & Geological Map  
of Taseko Property**

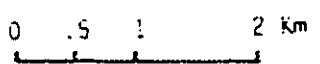
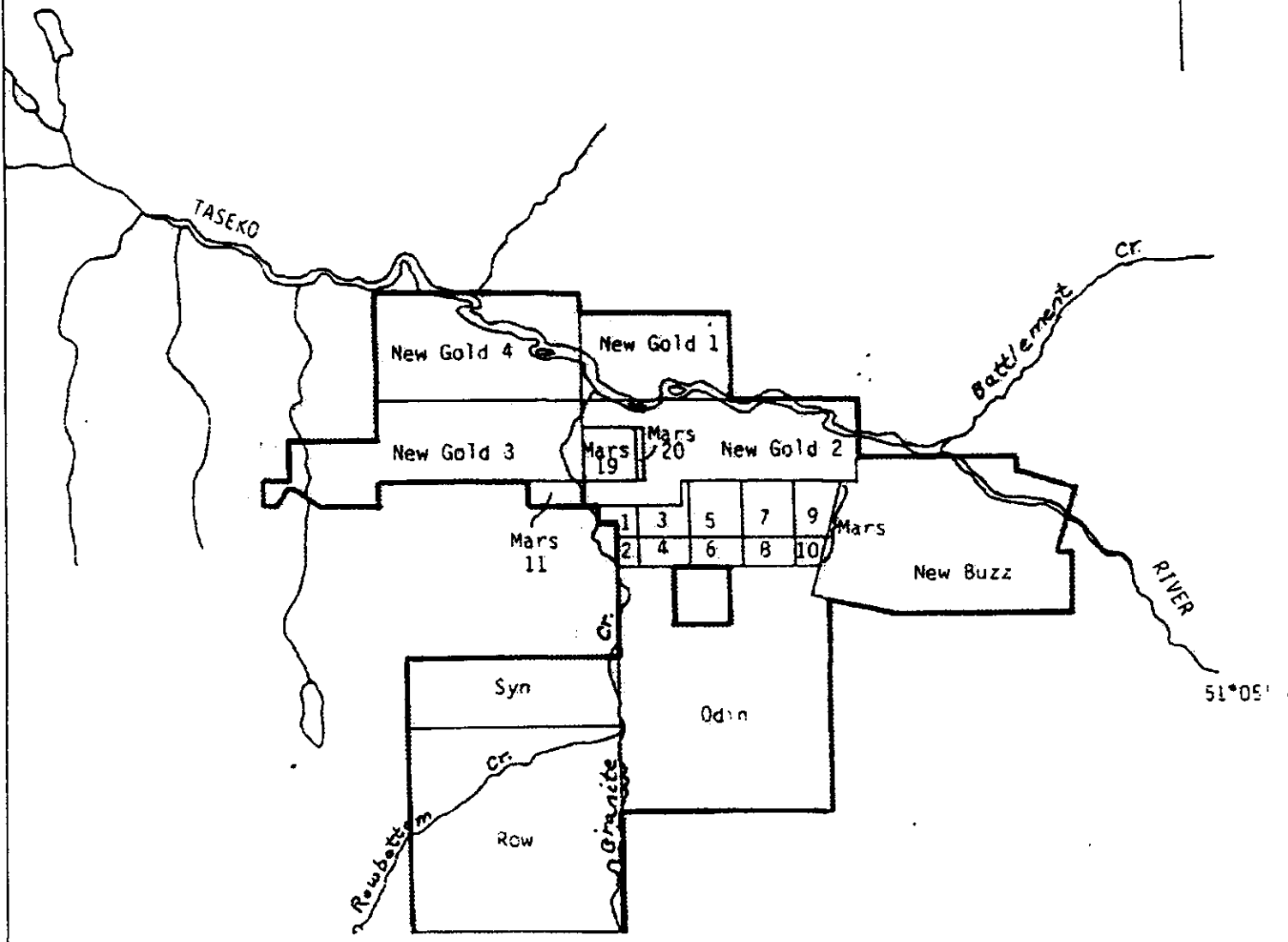
## CLAIMS INFORMATION

The property is comprised of 21 mineral claims totalling 108 units held by Great Quest Metals Ltd. Details of the claims are given in Table 1, and their locations are shown in Figure 2.

**Table 1: Claims Information**

<b>Claim Name</b>	<b>Units</b>	<b>Ha</b>	<b>Tenure #</b>	<b>Map Number</b>	<b>Expiry Date</b>
New Gold 1	6	150	208506	92O/03W	Nov. 01, 2009
New Gold 2	10	250	208503	92O/03W	Nov. 01, 2009
New Gold 3	12	300	208502	92O/03W	Nov. 01, 2009
New Gold 4	8	200	208507	92O/03W	Nov. 01, 2009
New Buzz	15	375	208505	92O/03W	Nov. 01, 2010
Mars 1	1	25	208579	92O/03W	Nov. 01, 2009
Mars 2	1	25	208580	92O/03W	Nov. 01, 2009
Mars 3	1	25	208581	92O/03W	Nov. 01, 2009
Mars 4	1	25	208582	92O/03W	Nov. 01, 2009
Mars 5	1	25	208583	92O/03W	Nov. 01, 2009
Mars 6	1	25	208584	92O/03W	Nov. 01, 2009
Mars 7	1	2	208585	92O/03W	Nov. 01, 2009
Mars 8	1	25	208586	92O/03W	Nov. 01, 2009
Mars 9	1	25	208587	92O/03W	Nov. 01, 2009
Mars 10	1	25	208588	92O/03W	Nov. 01, 2009
Mars 11	1	25	208589	92O/03W	Nov. 01, 2009
Mars 19	1	25	208590	92O/03W	Nov. 01, 2010
Mars 20	1	25	208591	92O/03W	Nov. 01, 2010
SYN	8	200	208601	92O/03W	Nov. 01, 2010
ROW	16	400	208791	92O/03W	Nov. 01, 2010
ODIN	20	500	209156	92O/03W	Nov. 01, 2009





NTS 920/3W

<b>Great Quest Metals Ltd.</b>	
TASEKO PROJECT	
CLAIM MAP	
Date: 080415	FIGURE: 2

## HISTORY

### **HISTORICAL EXPLORATION**

The following description of past exploration on the Taseko Property is taken from Lambert (1991b):

**1910's-1920's** – Between 1909 and 1920, many large, bog-iron deposits were discovered by prospectors in the Taseko Lakes area. These deposits, consisting of bedded limonite, formed as a result of erosion and oxidation of heavily pyritized volcanic rocks (Crossland, 1920). In 1922, copper-gold porphyry mineralization was discovered in the vicinity of the current Taseko Property at the Mohawk and Spokane Showings (see Figure 1)(Macrae, 1984). Consolidated Mining and Smelting Co. Ltd., dug numerous trenches and drove cross-cuts on these prospects in 1927-1928 (Quadros, 1981). The Mother Lode, a mineralized zone situated southeast of the Mohawk Showing, was also discovered at this time.

**1930's-1960's** – Further work was carried out by Taseko Motherlode Gold Miners Ltd. in 1933-1935 on the Mohawk and Spokane Showings. Work was halted after an avalanche destroyed the exploration camp and killed 7 men. No further significant work was performed in the area until 1956 when Canadian Explorations Ltd. conducted additional trenching and preliminary drilling on the Spokane Showing, as well as exploration on the Rowbottom shear zone exposed in Rowbottom Creek. Phelps Dodge (1963) drilled 8 diamond drill holes within an area extending from the Spokane Showing eastward to the Buzzer Showing in a search for Cu-Mo porphyry deposits in granodiorite.

**1960's-1970's** – From 1969 to 1976, prospects in and adjacent to the Taseko Property (including the Buzzer and Empress Showings) were extensively explored for Cu-Mo porphyry potential by the following companies:

- 1) Scurry Rainbow Oils Ltd (1969) – 16 DD holes, geological mapping, trenching, JEM-IP-MAG surveys (Nakashima, 1970);
- 2) Sumitomo Metals Mining Canada Ltd. (1970) – 64 percussion drill holes, geological mapping, 82 km of grid layout, IP-MAG survey, 3550 soil samples (Uchida et al., 1970);
- 3) Quintana Minerals Corp. (1975-1976) – 9 DD holes, 39 percussion drill holes (Wolfhard, 1976; Livingstone, 1976).

**1980's** – Esso Resources Canada Ltd., optioned the property from Scurry Rainbow in 1985 and conducted a detailed program of geological mapping, geochemical sampling and geophysical surveying. The thrust of their exploration attempts was to locate economic concentrations of epithermal gold mineralization (Melnyk, 1986a,b). No drilling was performed and the option was dropped. The property was re-staked by New World Mines Development Ltd. after Scurry Rainbow allowed it to expire. Alpine Exploration Corporation and Westley Mines Ltd. optioned the property in early 1988. A

geochemical, prospecting, geological and diamond drilling program was implemented during that field season (Lambert, 1988).”

## **RECENT HISTORY**

**1989 to 1996** - Westpine Metals Ltd. acquired the property from Alpine Exploration Corporation and Westley Mines Ltd., affiliated companies, in 1989 (Westpine Metals Ltd. changed their name in 1998 to Great Quest Metals Ltd.). Westpine conducted a number of mapping, sampling, geophysical and drilling programs, including a two-year, \$1 million joint-venture program with ASARCO Exploration Company of Canada. A total of 9888 m of diamond drilling in 64 holes was completed between 1988 and 1993 (Lambert, 1989a,b; 1991a,b). Several new mineralized zones were discovered in addition to the Empress Deposit and Buzzer Showings during that time, namely the East, Granite Creek and Buzzer West zones. In 1995, an IP survey was carried out over an area west of the Buzzer Zone (Visser, 1995). A study of the corundum potential of the Empress Deposit was conducted in 1996 by the B.C. Ministry of Employment and Investment, Energy and Minerals Division (Lambert, 1996), and in 1998 a soil sampling program was conducted south of the East Zone (Osborne, 1998).

## **GEOLOGIC SETTING**

### **REGIONAL GEOLOGY**

The Taseko Property is located along the contact between depositional units of the Tyaughton basin, a back-arc trough of Jurassic-Cretaceous age to the north, and the Cretaceous-age Coast Plutonic Complex to the south (Figure 1) (Tipper, 1978; Glover et al., 1986; Glover and Schiarizza, 1987; and McLaren and Rouse, 1990; Massey et al, 2005).

The Tyaughton trough formed as a volcanic island-arc environment preceding and during the time of the collision between the North American and Pacific Plates. It contains interfingering units of clastic sedimentary lithologies (eroding from highlands to the east), and volcanic lithologies (eroding from the west). The oldest rocks in the area are represented by marine argillite, siltstone and sandstone units, as well as crystal and lapilli tuffs of the late-Lower Cretaceous Taylor Creek Group. Unconformably overlying this are Upper Cretaceous, non-marine, basal-clastic sedimentary units of the Silverquick Formation, dominated by chert-pebble conglomerates, quartz-rich sandstones, argillites and minor volcanic flows. A thick succession of volcanic-arc related breccias, agglomerates, tuffs and basic flows of the upper Cretaceous Powell Creek Formation conformably overlie the Silverquick units. Unconformably overlying the Upper Cretaceous units are volcanic flows and pyroclastic rocks of Eocene age.

The main portion of the Coast Plutonic Complex (CPC) was emplaced between 95 and 110 Ma, partly truncating the volcano-sedimentary rocks of the Tyaughton basin. Rocks of the CPC are dominated by granodiorite, quartz diorite, quartz-feldspar porphyry and feldspar porphyry.

The main structural feature of the area is the northwest trending Tchaikazan fault, a fault system that has been traced 300 km along the northeast margin of the Coast Mountains. The fault contains both an under-thrust component and a right-lateral component as a result of the changing dynamics of the Pacific Plate subduction event. Evidence suggests that at least 100 km of compressional movement has occurred across the basin, while right-lateral movement has been estimated to be anywhere from 30 to 115 km. It is believed that this large transverse fault system has been active for 70 Ma and was responsible for the creation of favourable ground conditions conducive to intrusive and mineralization activity.

Known economic mineral occurrences in the area are of two main types: epithermal or mesothermal vein gold and silver deposits, and porphyry copper ( $\pm$  molybdenum, gold) deposits. Occurrences of note include (see Figure 1):

**Taylor Windfall** – gold mineralization in narrow fracture zones mined in the 1930's and 1950's. Reserves total 1000 tonnes of 13.72 g/t Au.

**Bralorne** - gold-bearing quartz-carbonate veins that have produced 4.1 million oz Au.

**Blackdome** – gold-bearing quartz veins that have produced 150,000 oz Au from 300,000 tons of processed ore.

**Pellaire** – gold and silver-bearing quartz veins; 90,000 tonnes grading 22.5 g/t Au. In 1996, 1270 tonnes of extracted ore assayed 46.5 g/t Au and 152.5 g/t Ag.

**Poison Mountain** – porphyry copper-gold-molybdenum deposit currently estimated at 280 million tonnes averaging 0.261% Cu, 0.142 g/t Au, 0.514 g/t Ag and 0.007% Mo.

**Fish Lake** – copper-gold porphyry estimated to contain 1.1 million tonnes averaging 0.24% Cu and 0.41 g/t Au.

## PROPERTY GEOLOGY

Outcrops on the property are extremely sparse due to pervasive deposits of glacial till and colluvium; however, extensive core drilling from previous exploration programs provides a base from which a preliminary understanding of the subsurface geology has been established. The contact between granitic rock of the Coast Plutonic Complex (CPC) and volcanic strata of the Taylor Creek Group cuts across the northern part of the Taseko Property in a roughly east-west orientation (Figure 1). The volcanic strata, occupying the northern part of the property, have been truncated in the south by the intrusion of massive quartz diorite and granodiorite batholiths. An intense alteration zone within the volcanic units extends up to several kilometres northward from the intrusive contact. This alteration zone can be traced from 500 m west of Honduras Creek to Big Creek, 10 km to the east (Lambert, 1991; Lane, 1987). Beyond the

alteration zone, unaltered volcanic strata are exposed in prominent cliffs above the Taseko River and in canyon walls of Amazon Creek, Honduras Creek and McClure Creek (Allen, 1991). These strata consist of massive to porphyritic andesite flows, pyroclastics (lapilli and crystal tuffs, agglomerates) and volcanoclastic sediments (McMillan, 1976; Melnyk, 1986; Allen, 1991) that trend NE to NW and dip between 15-35° north. Dikes and stocks of varying lithologies crosscut the volcanic units and postdate the CPC intrusions and alteration.

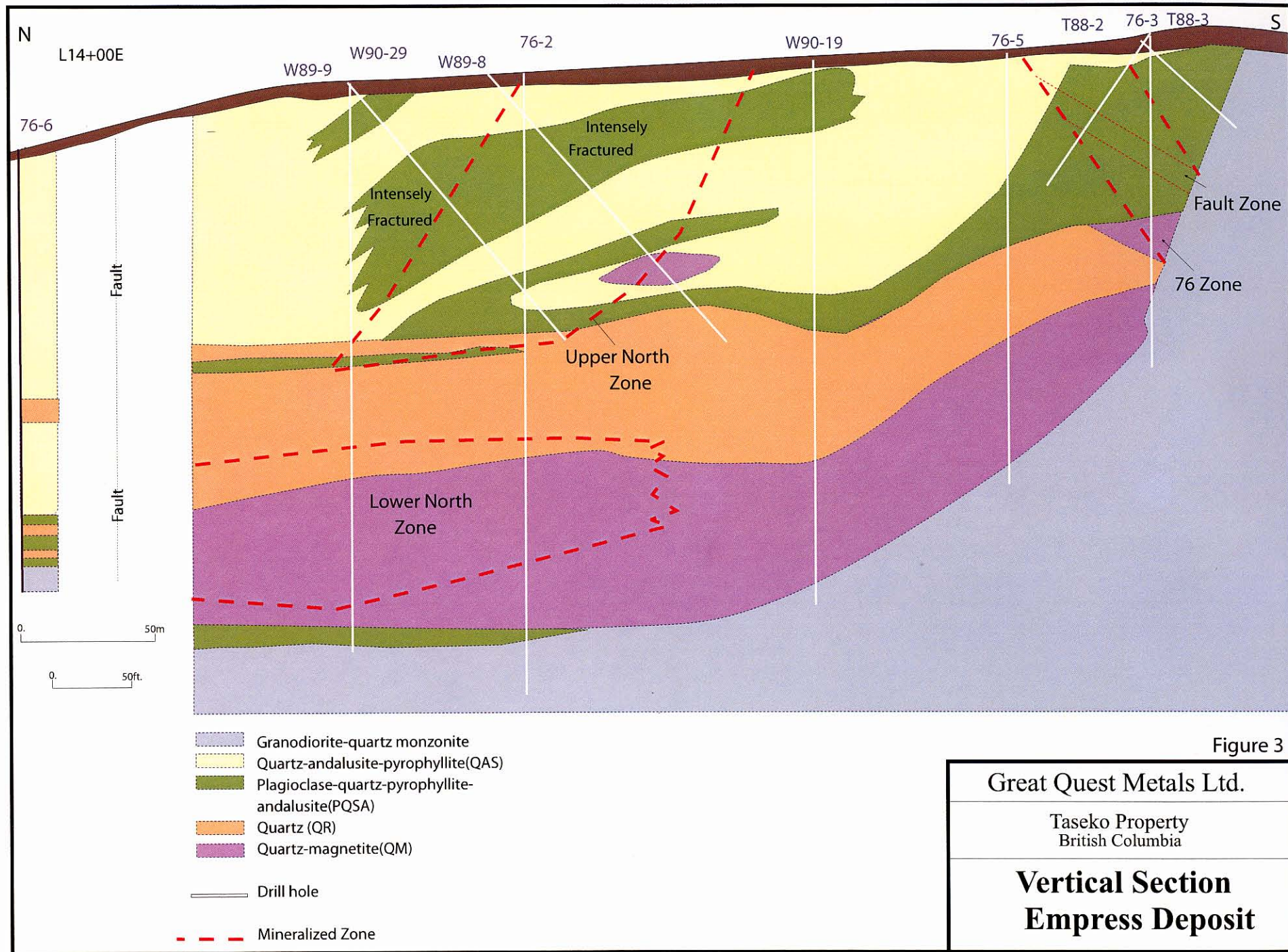
The nature of the contact between altered volcanic strata and granitic rock of the CPC has been determined in the Empress Deposit and Granite Creek Zone to be dipping steeply north before levelling off to form a sub-horizontal 'bench', or shelf (Figure 3) (refer to the 'Mineralization' section for the named zones on the property). The bench, where volcanic units lie stratigraphically above granitic units, is roughly 200 m deep and extends north at least to the Taseko River (700 m) and appears in drill holes as far east as the East zone (located 1480 m east of the Empress Deposit), and 2800 m west of the Empress Deposit (see the 'Alteration' section for a detailed description of the nature of alteration on the property).

Intrusive rock types observed in drill core are dominated by quartz diorite, the unit which underlies the Empress Deposit and East Zone and is thought to underlie most of the altered volcanic rock package. The quartz diorite is sub-porphyritic and contains euhedral to subhedral, bluish plagioclase crystals (5 mm in length), black subhedral biotite, with interstitial K-feldspar and quartz, with accessory magnetite. Other intrusive rocks observed from field mapping include biotite granodiorite, found on Mohawk Mountain; porphyritic hornblende-biotite granodiorite in the Rowbottom and Buzzer areas; and leucocratic granite found in the Buzzer West region. Breccia pipes have also been observed on surface at Mohawk Mountain and as areas of abundant float northeast of the East Zone. The breccias consist of rounded to angular granodiorite, aplite or felsite fragments in a variety of matrices that contain one or more of the following minerals: quartz, sericite, magnetite, chlorite, pyrite, and tourmaline. A Pierce Element Ratio Analysis performed in 1994 on various intrusive samples collected around the property identified, on the basis of an  $Al_2O_3$  vs. Zr immobile element scatterplot, two phases – one barren and one mineralized – that were considered to be two separated phases of a co-genetic intrusive suite (Madeisky, 1994).

Cross-cutting dikes that postdate CPC intrusions and alteration were observed in outcrop and drill core and include feldspar porphyry, quartz latite, dacite, rhyolite, felsites, gabbro and porphyritic andesite. Dike trends closely match those of prominent joint sets in the area: NW-SE and NE-SW (Nakashima, 1970; Uchida et al, 1970).

The largest structural feature of the property is the Tchiakazan Fault, a right-lateral compressional fault that developed in Early Tertiary times, as described above. It has been interpreted as trending E-SE along the Taseko River between the Powell Creek and Silverquick Formations to the north, and the Taylor Creek Group unit to the south (Figure 1). The fault could not be identified in the field but is evident from strong magnetic and topographic lineaments.

Evidence of smaller-scale faulting is common in outcrop exposed in creeks, and in drill core. Allen (1991) observed that faults exposed in creeks generally trend northwesterly and dip gently



to the north. One 5 m wide zone of intensely crushed rock was observed in the Taseko River Canyon. Two types of fault structures were observed in drill core: solid core displaying brecciated textures healed by silica, calcite, hematite or magnetite; and gouge, with or without associated rock fragments. Some drilling intervals suffered poor core recovery and returned only small, rounded fragments of rock that were interpreted to be fault zones. Current interpretation of these structural elements is that the re-cemented breccias represent pre- or syn-alteration fault zones, while unaltered gouge and broken-up core represent more recent, post-alteration movement. In many cases, healed breccias are themselves crosscut by fault gouge, indicating recurring movement along some faults. Fractures filled with a variety of mineral assemblages are common in drill core and contain one or more of the following minerals: quartz, calcite, gypsum, clay, magnetite, hematite, and chlorite, as well as pyrite, chalcopyrite and molybdenum.

## **ALTERATION**

A wide variety of alteration assemblages is present on the Taseko Property, ranging from low-grade propylitic/argillic alteration of intrusive phases to phyllic/advanced argillic alteration of volcanic units, to high-grade potassic and alumino-silicate alteration so intense that no evidence of original protoliths remains. These alteration assemblages are extensive across the property and are observed both in outcrop and in drill core. They are representative of differing zones within an overall porphyry/epithermal, hydrothermal system related to the emplacement of CPC intrusives. Following is a description of each alteration type and its occurrence on the Taseko Property.

### **Propylitic**

Weak propylitic alteration is widespread across the property and mainly related to low-grade alteration of intrusive phases. Common propylitic mineral assemblages include chlorite, epidote, calcite and minor pyrite (generally associated with the decomposition of Fe-Mg-bearing mafic minerals such as biotite and hornblende). This type of alteration occurs at relatively low temperatures in a distal setting relative to other alteration types. It was most commonly observed as chlorite/epidote alteration of mafic minerals in quartz diorite and andesite dikes.

### **Argillic**

The most obvious evidence of argillic alteration is the bleaching out and/or replacement of feldspars to sericite and clay minerals such as kaolinite, dickite, diaspore, smectite and illite. Bleaching and clay-replacement of feldspar phenocrysts to a whitish clay product was observed readily in drill core within quartz diorite units of the CPC, and in cross-cutting feldspar-porphyry dikes. Argillic alteration, when observed in core, occurs sporadically in quartz diorite as narrow zones. This is suggestive of fracture-controlled alteration, where hydrothermal fluids travelling along fractures altered enveloping wall rock a limited distance out from the fractures.

### **Phyllic (Sericite/Pyrophyllite)**

This is the most dominant alteration type occurring on the property, making up the bulk of the extensive alteration zone discussed above. Phyllic alteration is recognizable by the minerals quartz + sericite/pyrophyllite + pyrite and is the alteration type mostly associated, spatially, with sulphide ore. It is a hydrothermal, deuteric or metamorphic process involving the introduction of, alteration to, or replacement by sericitic muscovite. Phyllic alteration can host hypogene ore characterized by disseminated and veinlet pyrite and chalcopyrite. On the Taseko Property, this alteration style is so advanced that in many instances nothing remains of the original rock, both in texture and mineralogy. Intrusive rocks that have undergone phyllic alteration generally consist of sericitized feldspars and quartz flooding, while volcanic rocks typically consist of a granular or sugary textured assemblage of quartz, pale-green mica (sericite and/or pyrophyllite) and disseminated and vein pyrite, with or without andalusite (see the QAS unit described in 'Alteration Rock Types' below for a more detailed description). X-ray diffraction and thin-section studies on select samples revealed that the green mica was pyrophyllite and not sericite. It is not known how much of the pervasive presence of green mica on the Taseko Property is pyrophyllite vs. sericite.

### **Potassic**

This type of alteration is a relatively high temperature alteration phase generally associated with late magmatic processes occurring proximal to, and at the core of, mineral deposits. It is characterized by the formation of secondary potassium-silicates through potassic metasomatism, dominated by K-feldspar, biotite, phlogopite, chlorite, anhydrite and gypsum. The potassic zone can host relatively low-grade ore consisting of disseminated and vein pyrite, chalcopyrite and molybdenite. On the Taseko Property, potassic alteration recognized in drill core consists of local pink K-feldspar flooding of quartz diorite, and possibly the PQAS unit, a highly altered unit containing feldspar, quartz, pyrophyllite, andalusite, pyrite, calcite and gypsum.

### **Silicification**

This alteration type is prominent in the Empress Deposit and occurs sporadically in other zones around the Taseko Property. It generally occurs in highly altered volcanic and/or sedimentary(?) rocks above and adjacent to CPC intrusives, and below zones of strong phyllic alteration. It is characterized by nearly complete replacement of protolithic components by silica that has resulted in a fine to granular texture resembling quartzite (see Rock Units labelled 'QR' and 'QM'). The intensity of the silicification process cannot be overemphasized, for it involved the complete leaching of the alkalis  $K_2O$ ,  $Na_2O$ ,  $CaO$  and  $MgO$  from rocks possibly as mafic as andesitic tuffs and flows. The result is a unit that can be as thick as 70 m composed of 90-100%  $SiO_2$ , the remaining 10% consisting of pyrophyllite, magnetite, pyrite and/or chalcopyrite.



## **ALTERATION ROCK TYPES**

The greatest concentration of drill holes on the property occurs in the Empress Deposit, a mineralized zone hosting copper, gold and molybdenum mineralization (see detailed descriptions of all mineralized zones under 'Mineralization'). Over the course of several years of logging core from this area, where volcanic rocks adjacent the CPC intrusives are altered beyond recognition, Lambert (1988-1991) established four main alteration units (Figure 3):

### **(QAS) Quartz-Andalusite-Sericite/Pyrophyllite**

This rock type typically occurs within the top 100 m of surface and is characterized by a medium-grained, equigranular, granular (or sugary) texture consisting of grey, translucent quartz; pale green sericite/pyrophyllite and medium gray andalusite. The andalusite, which was positively identified in thin section, can be confused with quartz but is distinguishable by its medium grey colour (quartz is lighter grey), and its mottled, duller lustre (quartz is more glassy). Pyrite is disseminated throughout, ranging from 1 to 5% but can increase to 15% locally, giving the core an overall sparkly appearance. Additional minerals include finely disseminated magnetite, clots of chlorite, specks of clay and veinlets of gypsum. This unit is considered to be volcanic units that have undergone phyllic alteration as is well documented in Hole 91-50 located 1200 m west of the Empress Deposit, where relatively unaltered mafic, crystal tuffs are variably altered to QAS. There is evidence that QAS also represents an alteration phase in intrusive units, as evidenced by vague porphyritic textures observable in core. As well, contact relationships in core between fresh intrusives and zones of QAS are highly suggestive that QAS represents a phyllic alteration of the intrusive. A Pierce Element Ratio Analysis done by H.E. Madeisky in 1994 further supports this assumption.

### **(PQSA) Plagioclase-Quartz-Sericite/Pyrophyllite-Andalusite**

This unit is found as zones ranging in width from a few centimetres to several meters within QAS and appears to post-date that alteration event, possibly occurring as a hydrothermal, potassic-alteration assemblage introduced along fractures. Large blocks of this unit were found on surface over the Empress Deposit, some several meters in size. PQSA is a heterogeneous unit with a chaotic, patchy texture consisting of coarse grained, white, grey or cream-coloured plagioclase (albite), pink orthoclase, grey translucent quartz, pale green sericite/pyrophyllite, and medium grey andalusite. All these minerals are in varying proportions to each other and each mineral occurs as irregular blebs or lenses up to several centimetres in width, possibly suggestive of a pegmatitic origin. Additional minerals include magnetite, chlorite, dark-blue corundum, carbonate and clay (commonly as an alteration product of plagioclase). A 1996 study of the industrial mineral potential of corundum from the Taseko Property (Lambert, 1996; Simandl, 1996) found that the corundum was associated with feldspar-andalusite-rich portions of PQSA. One 34 m section of drill core in PQSA from the Empress Deposit returned up to 2% corundum by volume, although thin-section analysis determined the smaller crystals of corundum to be of poor gem quality due to microfractures and inclusions of pyrophyllite or diaspore. The fact that corundum occurs in the vicinity of quartz and exhibits zonation and coronas indicates the unit was not in equilibrium at the time of corundum formation. A similar mineral assemblage (quartz, corundum, andalusite, pyrophyllite and diaspore) is documented at

Bond Range, Tasmania (Bottrill, 1998) and is also considered to be thermodynamically unstable, the result of granite-derived, hydrothermal fluids causing advanced argillic alteration of tuffaceous and volcanoclastic units.

### **(QR) Quartz Rock**

This unit typically lies stratigraphically below QAS and PQSA in the Empress Deposit, from 100-170 m below surface (Figure 3), although it can occur as narrow zones within the upper units, and near surface along the contact with the CPC intrusive. QR is absent in the Granite Creek Zone, north of the Empress Deposit, but is present in the East Zone. The unit typically consists of over 90% quartz as interlocking grains ranging in size from very fine grained to coarse grained, with a texture reminiscent of quartzite. It ranges in colour between light and dark grey (typically medium grey), and can even be brown. In rare instances, original volcanic textures are perfectly preserved by the quartz, such as brecciation, compositional banding and welded-tuff features. Accessory minerals include interstitial pyrophyllite, clay, magnetite, chlorite, carbonate, rutile, and sphene, as well as the sulphides pyrite and chalcopyrite as veinlets and disseminations. This unit is considered to be an intense silicification of volcanic units (possibly tuffaceous sediments) lying adjacent the CPC, perhaps representative of roof pendants. Due to its extreme density and hardness, this unit is difficult to drill.

### **(QM) Quartz-Magnetite**

QM typically lies below QR and above CPC intrusives in the Empress Deposit, from approximately 170 m deep to the contact with quartz diorite (as deep as 225 m)(Figure 3). It is basically a QR unit that appears to have been flooded with >5% magnetite/hematite, which can occur interstitially to quartz grains, as fracture fillings, as the matrix in QR breccias, or massively (reaching 50-70% by volume). Chlorite, hematite and sulphides (pyrite  $\pm$  chalcopyrite) are common. This unit is the most difficult to drill because of the excessively slow penetration rate and the tendency for diamond bits to wear down rapidly, sometimes only cutting 10 m before having to be replaced.

The four alteration units in the Empress area appear to parallel the volcanic-intrusive contact, forming what appears to be a classic example of copper-porphyry mineralization within a hydrothermal alteration system adjacent a large, plutonic body – i.e. intense silicification right at the contact (QM and QR) then moving up through potassic alteration (PQSA) then phyllic alteration (QAS) further away from the contact (Figure 3). A similar alteration package has been described from North Carolina, where shallow plutons intrude a thick pile of andesitic to rhyodacitic pyroclastic rocks (Schmidt et al, 2006). There, hydrothermal fluids of magmatic/meteoritic origin have created intense high-sulfidation (high-alumina) alteration of the enveloping country rock. Many of the same features as described from the Taseko Property are present; for example, in the North Carolina case, the volcanic host rocks nearest the contact with the intrusive body have been altered to a quartz granofels rock containing more than 90 percent SiO<sub>2</sub>, with minor amounts of pyrophyllite, sericite, hematite and magnetite. Faint, ghost-like remnants of volcanic texture occur but no recognizable trace of a former internal structure

remains, giving the rock the appearance of a fine grained, massive quartzite; the next alteration zone out from the quartz granofels is a quartz-sericite-paragonite zone containing trace to several percent pyrite.

Another example of note occurs in the porphyry copper belt of Chile. Ulrich and Heinrich (2001) describe stocks of dacitic composition intruding andesitic volcanic rocks resulting in intense hydrothermal alteration and mineralization of the latter. Strong quartz-magnetite ( $\pm$ K feldspar) alteration laterally grades into potassic alteration which further grades into an outer halo of propylitic alteration (epidote-chlorite-albite-calcite) that extends up to 1 km into the andesites. Secondary alteration of sericite + pyrite  $\pm$  clay minerals  $\pm$  gypsum overprints the potassic and propylitic alteration and is locally controlled by faults and late fractures.

## **MINERALIZATION**

Copper-gold, copper-gold-molybdenum, and molybdenum mineralization occurs on the Taseko Property in 7 known locations (Figure 1). Two of these zones, the Empress Deposit and East Zone, occur within intensely altered volcanic rocks, while the remaining 5 zones (Granite Creek, Buzzer, Buzzer West, Rowbottom and Mother Lode) occur in CPC intrusives.

### **Empress Deposit**

The majority of the previous work on the Taseko Property concentrated on the Empress Deposit. Very little outcrop in the area exists; however, angular float fragments of high-grade copper mineralization were historically found right over the top of the deposit, prompting the first holes to be drilled in the 1970's. Since then, Westpine Metals (Great Quest Metals Ltd.) and its former affiliates drilled 43 diamond-drill holes between 1988 -1993 into the zone. To date, the areal extent of the Empress Deposit measures approximately 300 x 360m (Figure 4) and hosts sulphide mineralization in the form of pyrite, chalcopyrite, pyrrhotite, and rare molybdenite, bornite and native copper, in altered volcanic units adjacent CPC intrusives.

Significant Cu-Au mineralization is concentrated into three definable zones: the 76 Zone, the Upper North Zone and the Lower North Zone (Figures 3 & 4):

**76 Zone:** Disseminated chalcopyrite occurs in PQSA and QM units in a near vertical, linear configuration that suggests it is fault controlled. The zone, with an apparent width of 30 m and a depth interval spanning at least 100 m, strikes E-NE over a distance of at least 260 m and probably terminates against the CPC to the southwest, but is open to the NE. Chalcopyrite ranges in concentration from 1-25% but is typically 2-5% by volume.

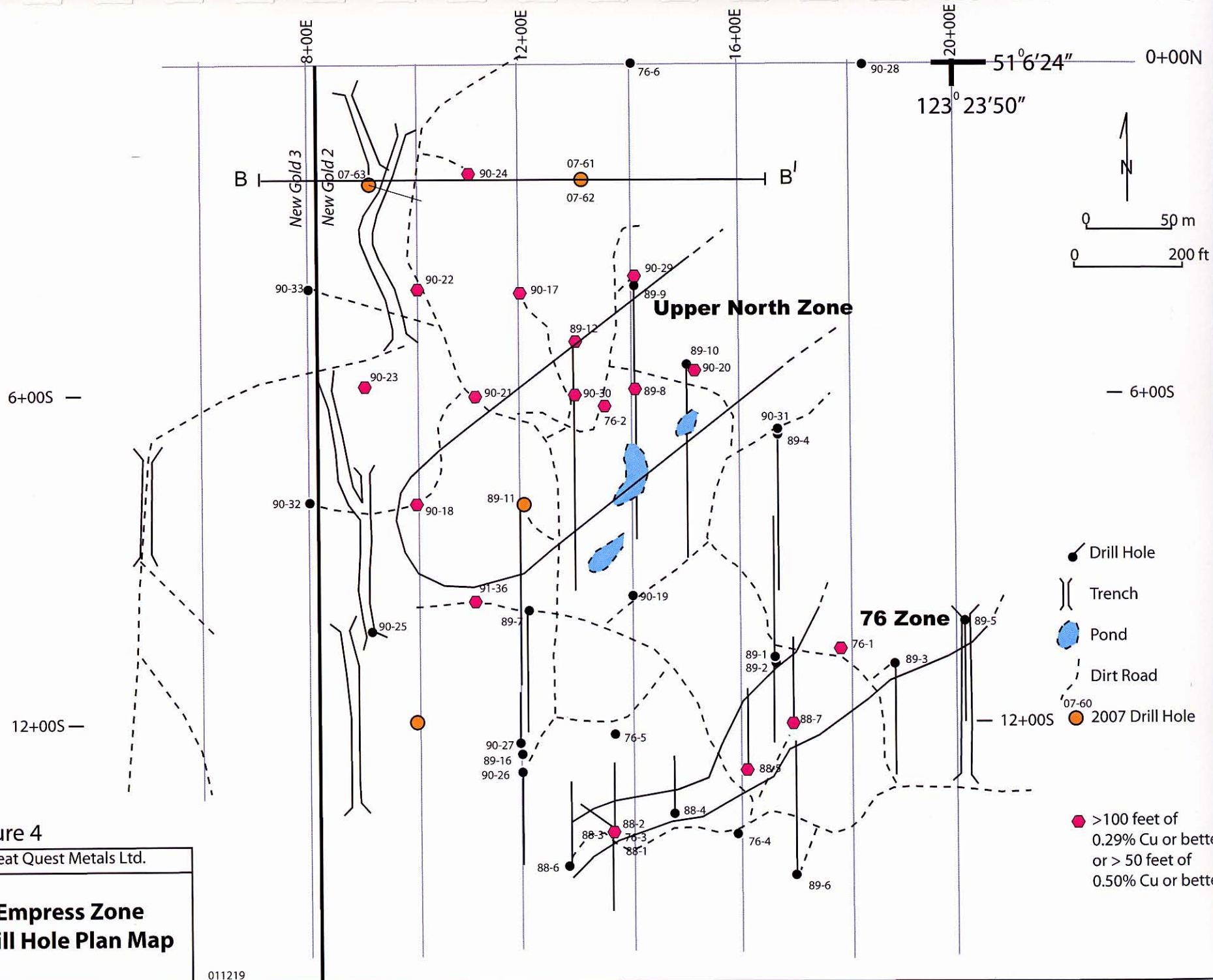


Figure 4

Great Quest Metals Ltd.

**Empress Zone  
Drill Hole Plan Map**

011219

- Drill Hole
- ⌋ Trench
- ☁ Pond
- - - Dirt Road
- (orange) 2007 Drill Hole
- (pink) >100 feet of 0.29% Cu or better or > 50 feet of 0.50% Cu or better

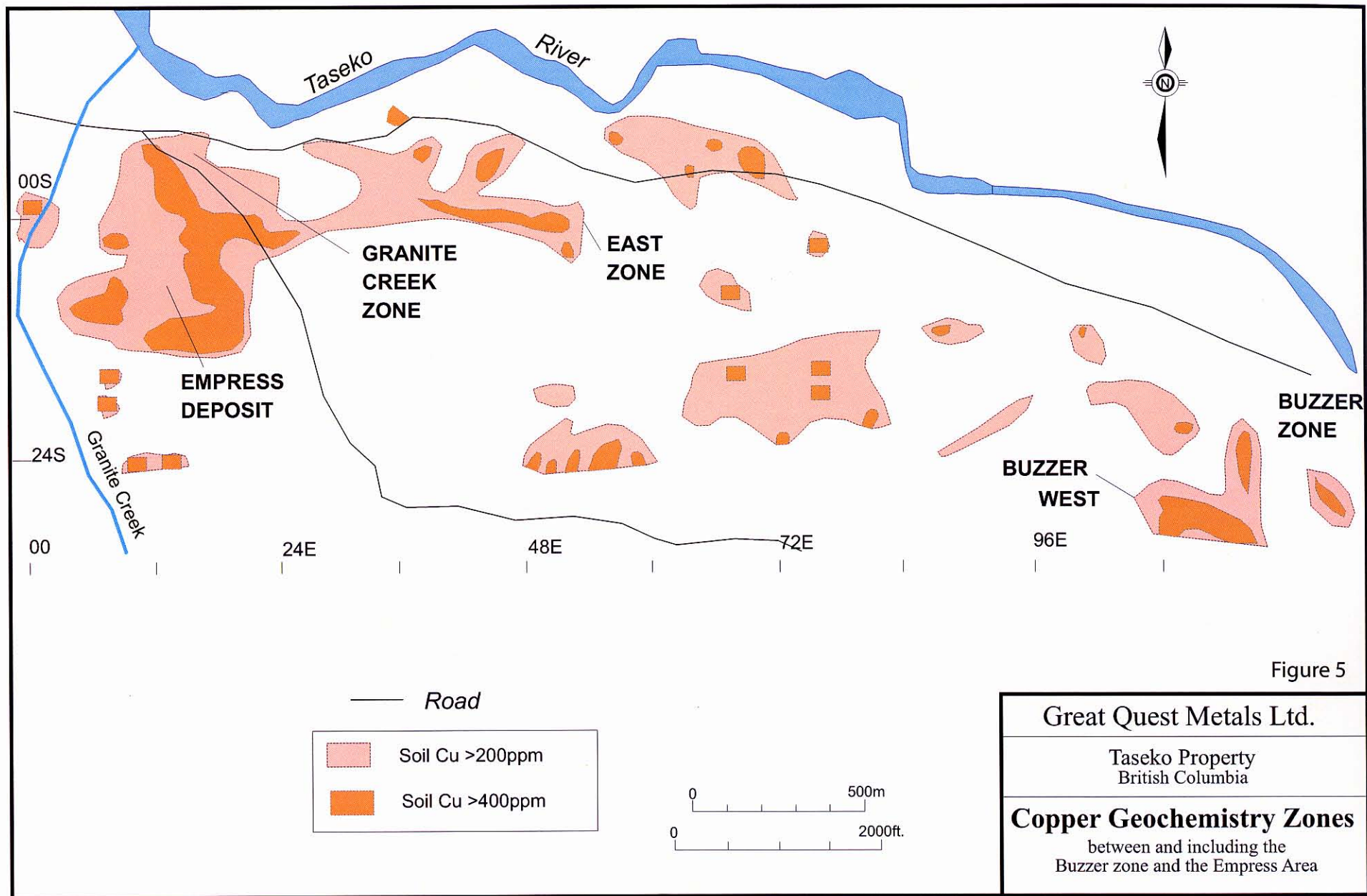
**Upper North Zone:** Located ~185 m north of the 76 Zone, the Upper North Zone occurs mainly in the upper alteration units QAS-PQSA, extending a short distance into QR below. It can be traced in drill holes for 185 m strike length in a NE-SW orientation; it is at least 90 m wide and occurs from near surface to roughly 100 m depth. The zone appears to end or narrows to the southwest, but is open to the northeast. Chalcopyrite mineralization is nearly ubiquitous in this zone as a disseminated mineral in PQSA. It generally ranges in abundance from <0.5% to 2%, with local zones exceeding 3% and reaching 10% over narrow intervals. Other disseminated sulphides include pyrite (locally abundant to 10%) and pyrrhotite.

**Lower North Zone:** this zone lies stratigraphically below the Upper North Zone, beginning approximately 35 m below that zone and extending to 167 m below surface. The mineralization occurs as a relatively flat-lying, disc-shaped body measuring approximately 245 x 275 m in area, with a thickness of ~ 60 m and striking N-NE. An increase in thickness toward the east is suggested by Hole 91-48. Chalcopyrite occurs disseminated and as fracture fillings in QR and QM units, varying in abundance from 1-10%. There is a reverse correlation between chalcopyrite and magnetite, where chalcopyrite mineralization decreases as the magnetite volume increases. A mineral inventory calculation for the Lower North Zone indicated probable and possible overall inventory of 6.76 million tons grading 0.73% Cu and 0.82 g/t Au (0.024 oz/ton), with a high-grade core of 432,000 tonnes of 2.33% Cu and 2.78 g/t Au (0.081 oz/ton)(Peatfield, 1991).

There is a strong correlation between copper and gold mineralization in the Empress Deposit. In 1991, James Askew & Associates calculated an in situ resource of 11,078,000 tons grading 0.61% Cu and 0.023 oz/ton Au (0.79 g/t) using a cut-off of 0.40% Cu (not Cu-equivalent). The report calculates 10,474,000 tons of mineable reserves grading 0.582% Cu and 0.022 oz/ton (0.75 g/t Au) with a stripping ratio of 5.9:1. This figure was arrived at using a 10% dilution of in situ resources with a grade of dilution estimated to be 0.20% Cu and 0.015 oz/ton Au (0.51 g/t). Bacon Donaldson and Associates Ltd. (1991) completed tests on core from the Lower North Zone that resulted in a recovery of 97.1% Cu and 69.3% Au. The test concentrate graded 27.0% Cu and 21.25 g/t Au (0.62 oz/ton).

### **East Zone**

This zone occurs 1000 m east of the Empress Deposit and was first identified by anomalous values of Cu in soil samples (Figure 5), and in shallow percussion holes drilled in the 1970's. One diamond drill hole (W89-13) was drilled in 1989 into a coincident Cu-Au soil anomaly in this zone and intersected two different dikes: feldspar porphyry and porphyritic andesite. A section of highly altered rock (QAS and QR) was intersected from 53.6 - 76.4 m that contained minor chalcopyrite; otherwise a porphyritic andesite dike occupied the remainder of the hole to



122.2 m. Four drill holes were drilled deeper into the zone in 1991 as part of an investigation into geophysical anomalies with Empress-style signatures. Low-grade Cu-mineralization was intersected over significant widths in all four holes, with higher grade intercepts occurring in

three of the holes. Values were typically 0.15 to 0.60% Cu and 0.10 to 0.75 g/t Au (.003-.022 oz/t) over intervals ranging from a few meters to 60 m. The last hole drilled in this zone (91-55) intersected 11 m of 0.49% Cu and 0.10 g/t Au (0.003 oz/t), from 50 to 61 m depth, before entering a steeply dipping dike. Mineralization is in the form of disseminated chalcopyrite in QAS/PQSA and QR/QM units occurring above the intrusive contact, which is approximately 200 m depth in this area. Numerous, steep-dipping dikes of varying composition were intersected in three of the holes.

### **Granite Creek Zone**

This zone is located ~200 m north of the Empress Deposit and was discovered in 1991 in step-out holes moving north from that zone. Three holes were drilled in 1991, one of which intersected a feldspar porphyry dike while the other two intersected highly altered units (typical of the Empress Deposit) before entering quartz diorite intrusives around 110 m depth. This depth to the intrusive is shallower than in the Empress Deposit, where the intrusive contact over the Upper and Lower North Zones is ~220 m in depth. Units QAS and PQSA, containing local abundant pyrite and gypsum veining, overlie quartz diorite in the Granite Creek Zone. The quartz diorite is highly altered to quartz-pyrophyllite-andalusite-pyrite in places. Two styles of mineralization occur in this zone: 1) an upper **molybdenum zone**, where molybdenite in the form of coarse blebs (to several centimetres in size) occurs associated with coarse pyrite within QAS/PQSA, and 2) a lower **copper zone** where chalcopyrite + pyrite and rare molybdenite occurs as a replacement of mafic minerals and as veinlets in quartz diorite. Hole 91-49 returned 0.035% Mo over 76.5 m (from 56.7 to 133.2 m depth) from the molybdenum zone, and 0.23% Cu and 0.24 g/t Au (0.007 oz/t) over 89 m (from 186.2 to 275.2 m depth) in the copper zone.

### **Buzzer Zone**

Copper-gold-molybdenum mineralization was discovered in the 1960's by trenches dug into CPC intrusives at the Buzzer showing, a mineralized zone located approximately 3 km east of the Empress Deposit. Chalcopyrite, pyrite and molybdenite replace mafic minerals and occur as vug and fracture fillings in variably altered quartz diorite that exhibits moderate-to-strong silicification and local phyllic alteration (quartz-sericite)(McMillan, 1976; Lambert, 1989b). Quintana, in 1976, estimated a grade and tonnage of 5.5 million tons of 0.35% Cu and 0.031% Mo within a surface area of around 150 m x 150 m. Two holes were drilled in 1989 by Westpine Metals Ltd. adjacent the Buzzer Zone to 87.5 and 51.8 m depth, respectively. One intersection of 2.1 meters grading 0.63% Cu was encountered.

A series of >200 ppm Cu soil anomalies extend 2,400 m west of the Buzzer Zone. Fragments of mineralized intrusive rock similar to the Buzzer Zone were found at the western extent of this zone.

### **Buzzer West Zone**

This zone is defined by highly weathered granitic float exhibiting Cu-Mo mineralization occurring at surface, in conjunction with anomalous copper values returned in soil samples over a broad area west of the Buzzer Zone (Figure 5). Mineralized float samples have been traced for 270 m, while soil samples with >200 ppm Cu have defined a broadly anomalous zone roughly 500 m x 500 m in area. This zone remains to be drill-tested.

### **Rowbottom**

Cu-Mo mineralization was discovered in this area in 1970 in surface outcrops with chalcopyrite, pyrite, molybdenite and pyrrhotite mineralization as replacements of mafic minerals in variably altered quartz monzonite. At the time, trenching in this area was followed up with drilling that confirmed that the Cu-Mo mineralization continued at depth. The best intersection was 56 m of 0.41% Cu and 0.034% Mo. Westpine Metals Ltd. conducted a soil-geochemical survey over the Rowbottom showing in 1991 that returned anomalous values in Cu, Mo and Au. Occurrences of lead-silver-zinc mineralization in quartz veins were found during reconnaissance mapping southwest of the Rowbottom Zone, on the southern slopes above Rowbottom Creek. Anomalous silver and lead values were also returned in the soil sampling program over the Rowbottom Zone.

### **Mother Lode**

Bornite, chalcopyrite and magnetite are found disseminated in quartz diorite and hornfels in surface outcrop. Alteration of the two rock types consist of silicification and secondary biotite development. Sumitomo reported 2.0% Cu and 0.008% Mo in chip samples taken across trenches dug into the mineralized outcrops.

### **Other Mineral Showings**

Copper ( $\pm$  gold  $\pm$  molybdenum) mineralization is found scattered all over the Taseko claims, both as anomalous values returned in soil samples that are concentrated into broad zones, and as float samples collected during reconnaissance mapping (Osborne, 1992). Four known Cu-



Mo-Au mineral showings occur outside the Taseko claims but within 1 km of the property boundaries: the Mohawk, Spokane, Syndicate and Taylor-Windfall showings. The **Mohawk** showing consists of chalcopyrite and gold mineralization in altered intrusive breccias; the **Spokane** showing consists of chalcopyrite and pyrite in northeasterly- and southeasterly-striking veins in shear zones and fractures in granodiorite; the **Syndicate** showing consists of chalcopyrite with minor molybdenite in drusy quartz veins cutting an intrusive breccia, and disseminated within the breccia; the **Taylor Windfall** showing is a gold occurrence in tension fractures within a zone of advanced argillic alteration of volcanic rock, possibly representing the outer, epithermal stage of a much larger, copper-porphyry mineralizing system. Clearly, the region about the Taseko River valley is host to a broad band of Cu-Mo-Au mineralization that still remains relatively under-tested outside the Empress Deposit.

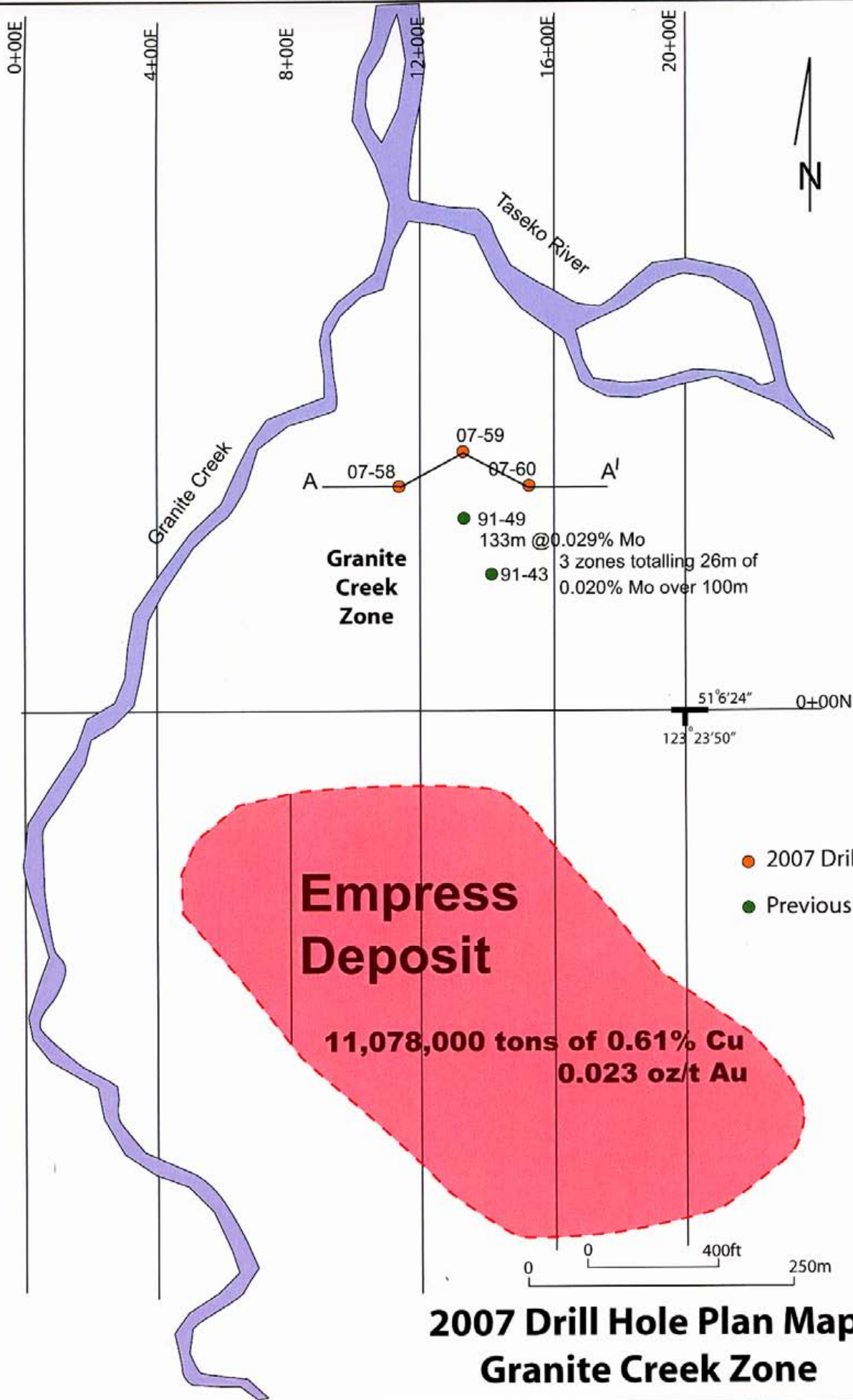
### **2007 DRILLING PROGRAM**

The basic goals of the 2007 drilling program were three-fold:

- 1) Conduct step-out holes in the Granite Creek Zone to determine in which direction Cu-Mo-Au and Mo mineralization trends away from the 1991 discovery hole (Hole 91-49);
- 2) Test a large magnetic anomaly identified in 1991 just north of the Granite Creek Zone for Empress-style mineralization (where copper mineralization is associated with magnetite in highly altered rocks above granitic intrusives);
- 3) Continue with in-fill and step-out drilling in the Empress Deposit to add to the mineral resource of the deposit.

A number of extenuating circumstances led to the drilling season being delayed until early winter, which resulted in the completion of only 6 holes out of a planned 10- or 11-hole program. The program was cut short due to weather and freezing of the existing water source needed to supply the drill.

Three holes (07-58, 07-59, 07-60) were completed in the Granite Creek Zone (Figure 6) and three in the Empress Deposit (07-61, 07-62, 07-63) (Figure 4). A total of 1421.3 m of NQ core was drilled by Apex Diamond Drilling Ltd. of Smithers, BC. Drilling commenced on November 13, and was finished on December 3, 2007. 340 split core samples were sent for analysis to ALS Chemex Labs of North Vancouver, B.C., and the remainder of the core was left on the property. Standard 36-element ICP analysis and gold by fire assay with atomic absorption finish were performed on each sample. Summary drill logs and assay certificates appear in the appendix.



**2007 Drill Hole Plan Map  
Granite Creek Zone**

Figure 6

## DRILLING RESULTS

### Granite Creek Zone

The three holes drilled into this zone were spaced 100 m apart from each other and were each located 100 m away from the discovery hole (91-49): Hole 07-58 was 70 m to the northwest, Hole 07-59 was 60 m to the north, and Hole 07-60 was 70 m to the northeast (Figure 6). There was a marked difference in depth to the quartz diorite in these three holes, ranging from 7.8 m in Hole 07-58 (which is immediately below the overburden), to 67.3 m in Hole 07-59, and 271.3 m in Hole 07-60. Cu-Au-Mo mineralization was encountered in all three holes.

A summary of each hole is described below, and Cross Section A-A' appears in the Appendix:

**Hole 07-58:** Dip = 90°, Depth = 304.6 m.

Quartz diorite was intersected immediately below the overburden to 300.0 m depth, with the remaining 4.6 m intersecting an andesite dike. The quartz diorite is variably altered, ranging between a nearly fresh intrusive - where the only evidence of alteration is chlorite partially replacing mafic minerals - to total alteration, where all original mineralogy and texture has been completely destroyed and replaced by alteration minerals (see below). Several intermediate alteration phases are also present. Alteration styles change over short distances with no obvious evidence as to why one alteration phase predominates over another. Below is a description of the quartz diorite and its varying alteration styles, as well as the mineralization observed in this hole:

- 1) **Fresh Quartz Diorite** - dark bluish-grey plagioclase phenocrysts in a dark grey, crystalline, medium grained groundmass consisting of quartz, feldspar and mafic minerals that are variably altered to chlorite; unit is slightly magnetic;
- 2) **Silicification** - very dark grey in colour (nearly black); smooth, glassy core with a hardness >5.5; intrusive textures completely preserved; plagioclase phenocrysts exhibit a `ghost-like` appearance, are dark, greenish-grey in colour, and reveal twinning and compositional zoning on fresh surfaces;
- 3) **Argillic** - plagioclase phenocrysts are altered to a white or pale-green clay; porphyritic/intrusive texture still present; groundmass is altered to a reddish-brown colour; rock is generally soft and easy to scratch with a knife;
- 4) **Phyllic** - light grey rock consisting of quartz, pyrophyllite/sericite, andalusite and disseminated pyrite displaying an equigranular, sugary texture; any evidence of intrusive texture has been obliterated by the alteration minerals;
- 5) **Potassic(?)** - the groundmass is pinkish in colour, giving the appearance that the intrusive has been flooded with K-feldspar.

**Mineralization** - Pyrite and chalcopyrite occur in variable amounts throughout the hole. Pyrite content varies from 0-3% and is generally  $\leq 1\%$ , occurring

disseminated, as small streaks and veinlets, or as coarse blebs replacing mafic minerals. Chalcopyrite concentrations are variable from 0-2% and can occur with or without pyrite as replacements of mafics, as thin veinlets, or as coarse blebs to 1 cm in size (not associated with pyrite). Both sulphides occur in unaltered quartz diorite as well as all of the altered phases, except for the argillic alteration variety, where very little to no mineralization occurs. The sulphides can be completely absent from the core, then appear abruptly and in abundance, and then disappear just as suddenly, all within one alteration type. There appears to be a direct relationship between chalcopyrite mineralization and pink, K-feldspar alteration (flooding). Trace molybdenite and native copper was observed. Copper-gold mineralization of note from this hole is summarized in the following table:

**Table 2: Cu-Au Mineralization from Hole 07-58**

Interval (m)	Width (m)	Cu (%)	Au (g/t)
40.6 – 303.0	262.5	0.06	-
(46.0 - 53.3)	7.3	.15	.144
(70.1 - 88.1)	18.0	.08	.090
(117.4 - 128.4)	11.0	.14	.104
(147.6 - 156.7)	9.1	.12	.100
(177.7 - 190.5)	12.8	.19	.410
(283.5 - 296.3)	12.8	.08	.059

**Hole 07-59:** Dip = 90°, Depth = 304.6 m.

This hole contains numerous intersections of a dark green, porphyritic mafic dike that cross-cut both QAS units in the upper portions of the hole, and quartz diorite in the bottom part of the hole. Six different intersections of the mafic dike occur, ranging in individual dike-widths from 17.7 m to 28.7 m. The dike contains very conspicuous pale green plagioclase phenocrysts in a dark greenish-black groundmass. The phenocrysts range from  $\leq 1$  mm up to several centimetres in size, and exhibit every shape imaginable, from squares, to blades, to circles, to compound shapes where two or more grains are attached to each other. Some blades are twinned and others are unusually large, up to 10 cm long and 1-2 cm wide. The dike also contains small circular and oblong blebs ( $\leq 1$  mm to 5 mm) filled with a greenish black mineral that is lightly to strongly magnetic and scratches easily with a knife; others are filled with white calcite that are rimmed by the greenish black mineral. A petrographic study of the dike unit describes it as gabbro/diabase consisting of an ophitic-textured intergrowth of lath-like plagioclase grains and anhedral grains of purplish-brown pyroxene. Chlorite is described in thin-section as being variably-sized, minutely felted pockets,

interstitial to the plagioclase meshwork, while plagioclase phenocrysts are strongly flecked with sericite. Some fracture surfaces in core have slickensides of serpentine. Sporadic calcite veins, associated with gypsum, are present. Dike contacts with QAS and quartz diorite are either brecciated or sharp, with the latter occurring at variable angles to the core axis. The dike is unmineralized and variably magnetic.

The QAS unit in this hole locally contains chlorite as specks from  $\leq 1\%$  to 10% of the rock by volume and appears to be a strong alteration phase of quartz diorite. Pyrite  $\pm$  pyrrhotite is ubiquitous; disseminated chalcopyrite in minor concentrations occurs locally. The quartz diorite unit occurring below QAS is variably altered from nearly fresh to clay altered to strong QAS-type alteration. Chalcopyrite mineralization is sporadic, occurring as rare specks until 188 m depth where it suddenly increases in volume as disseminations and as blebs associated with mafic minerals in weakly altered quartz diorite. A higher-grade copper section occurs from 201.5 to 203.7 m (2.2 m width) grading 0.32% Cu and 0.301 g/t Au before it is abruptly cut-off by one of the mafic dikes. The dike below the copper mineralization is 17.7 m wide before the hole re-enters quartz diorite, but the higher-grade copper mineralization does not continue below the dike. The following table summarizes the more significant copper/gold mineralization from this hole:

**Table 3: Cu-Au Mineralization from Hole 07-59**

Interval (m)	Width (m)	Cu (%)	Au (g/t)
53.7 - 67.4	13.7	.05	.033
188.4 - 203.6	15.2	.12	.102
(201.2 - 203.6)	2.4	.32	.301
284.4 - 303.0	18.6	.09	.055

**Hole 07-60:** Dip = 90°, Depth = 307.6 m.

This hole intersected QAS units in the upper portions (to 193.6 m depth) before entering a 77.7 m wide feldspar porphyry dike. Below the dike, quartz diorite occurs to the end of the hole. Cross-cutting mafic dikes, as described in Hole 07-59, also occur in this hole in two locations: from 17.1 to 17.7 m (0.6 m wide), and from 171.9 to 188.9 m (17.0 m wide). The QAS unit, from just below the overburden to about 126.5 m depth, is cut by quartz-gypsum-pyrite veins with associated molybdenite and rare fluorite. The veining is intense near the top of the hole, creating a brecciated texture in places, but decreases in intensity with depth. Gypsum is abundant as a vein mineral in the top part of the hole, locally occurring up to ten's of centimetres in width, but disappears around 106.0 m

depth, giving way to veins filled only with quartz and pyrite. Pyrite is variable throughout the QAS unit, ranging from trace amounts to 20% as a disseminated component. Pyrite occurs massively (up to 10 cm in width) in quartz-gypsum veins. Molybdenite, where present, occurs as coarse blebs and streaks in quartz-gypsum-pyrite veins, and disseminated in QAS (with associated rare chalcopyrite).

Quartz diorite is variably altered, as described in Hole 07-58. Chalcopyrite + pyrite mineralization varies from  $\leq 1\%$  to 8% and occurs disseminated and as replacements of mafic minerals.

Geologic units and mineralization in this hole is nearly identical to Hole 91-49, the Granite Creek discovery hole, where an upper molybdenite zone in QAS occurs separate from a lower copper zone in quartz diorite. The following table summarizes the significant molybdenum and copper/gold mineralization from this hole:

**Table 4: Cu/Au and Mo Mineralization from Hole 07-60**

Interval (m)	Width (m)	Cu (%)	Au(g/t)	Mo (%)
35.1 - 48.8	13.7	-	-	.020
71.0 - 73.2	2.2	-	-	.089
94.5 - 170.4	75.9	-	-	.027
(94.5 - 108.8)	14.3	-	-	.020
(119.8 - 128.3)	8.5	-	-	.050
(133.2 - 169.8)	36.6	-	-	.035
( 160.0 - 169.8)	9.8			.041
271.3 - 288.4	17.1	.18	.336	-

### **Empress Deposit**

The three holes that were drilled in the Empress Deposit were drilled along the northern border of the known deposit. All three holes (07-61, 07-62, 07-63) (Figure 4) intersected highly altered rock units typical of the deposit. The first two holes (07-61, 07-62) were collared at the same site, which is a 60-m step-out to the north and east from previous holes. Hole 07-61 was abandoned at 106.1 m depth due to a fault zone, while Hole 97-62 was an angle hole dipping to the east, drilled to 215.5 m depth, that terminated in quartz diorite. The Upper North Zone was not intersected in either hole, but the Lower North Zone was intersected in Hole 07-62. Hole 07-63 was a 60 m step-out west and north of previous holes and failed to intersect significant copper/gold mineralization.

Below is a summary description of each hole, and Cross Section B-B' appears in the Appendix:

**Hole 07-61:** Dip = -90°; Depth = 106.1 m

QAS and PQSA were encountered in the top 83.2 m of the hole. Portions of the QAS unit contain chlorite and magnetite as secondary minerals. These segments have been labelled QMC to reflect the dark grey/green colour of the unit and the higher concentrations of chlorite and magnetite. Below these units is QR to 94.5 m, where a fault zone was encountered. The hole was abandoned in the fault zone. Pyrite mineralization is ubiquitous in QAS/PQSA, ranging in abundance from 1-25%. Copper mineralization was minor, returning 0.1% Cu from 67.1 to 94.5 m depth (27.4 m width) immediately above the fault zone.

**Hole 07-62:** Dip = -65°E; Depth = 215.5 m

This hole was collared beside Hole 07-61 and dips 65° to the east. QAS and QMC, as described in Hole 07-61, occurs to 93.0 m depth. QR appears at 93.0 m, followed by QM at 169.2 m. Quartz Diorite was intersected at 183.2 m. A feldspar-porphphy dike cross-cuts the QM unit, between 151.5 m and 164.3 m. Pyrite is finely disseminated in the QAS/QMC units, ranging from 1-20%. In the QR and QM units, pyrite is minor, generally  $\leq 1\%$ , occurring disseminated and as fracture fillings. Magnetite in the QM unit increases in abundance with depth. Chalcopyrite occurs in the QM unit, beginning about 144.8 m depth and continuing to approximately 179.0 m. It ranges in abundance from trace to 10% locally. The quartz diorite below QM is unmineralized, but highly variable in type and degree of alteration. The following table summarizes the most significant intersections of mineralization in this hole:

**Table 5: Cu/Au Mineralization from Hole 07-62**

Interval (m)	Width (m)	Cu (%)	Au (g/t)
144.2 - 151.5	7.3	0.63	.80
(146.3 - 148.5)	2.1	1.69	1.80
164.3 - 181.7	17.7	0.26	0.23
(164.3 - 169.8)	5.5	0.43	0.44

**Hole 07-63:** Dip = -90°; Depth = 182.9 m

This hole intersected similar units as Holes 07-61 and 07-62, beginning with QAS from 7.6 to 160 m depth. A section of QR occurs within the QAS unit from 81.7 to 99.7 m; as well, an andesite dike cross-cuts QAS from 47.6 to 50.9 m. At 160 m, QR appears, followed by QM at 173.8 m. Drilling QM became difficult with depth, as is usual in this unit when the magnetite content increases. No significant mineralization was encountered in this hole.

## **RECOMMENDATIONS**

The following drill targets are recommended for the Taseko Property:

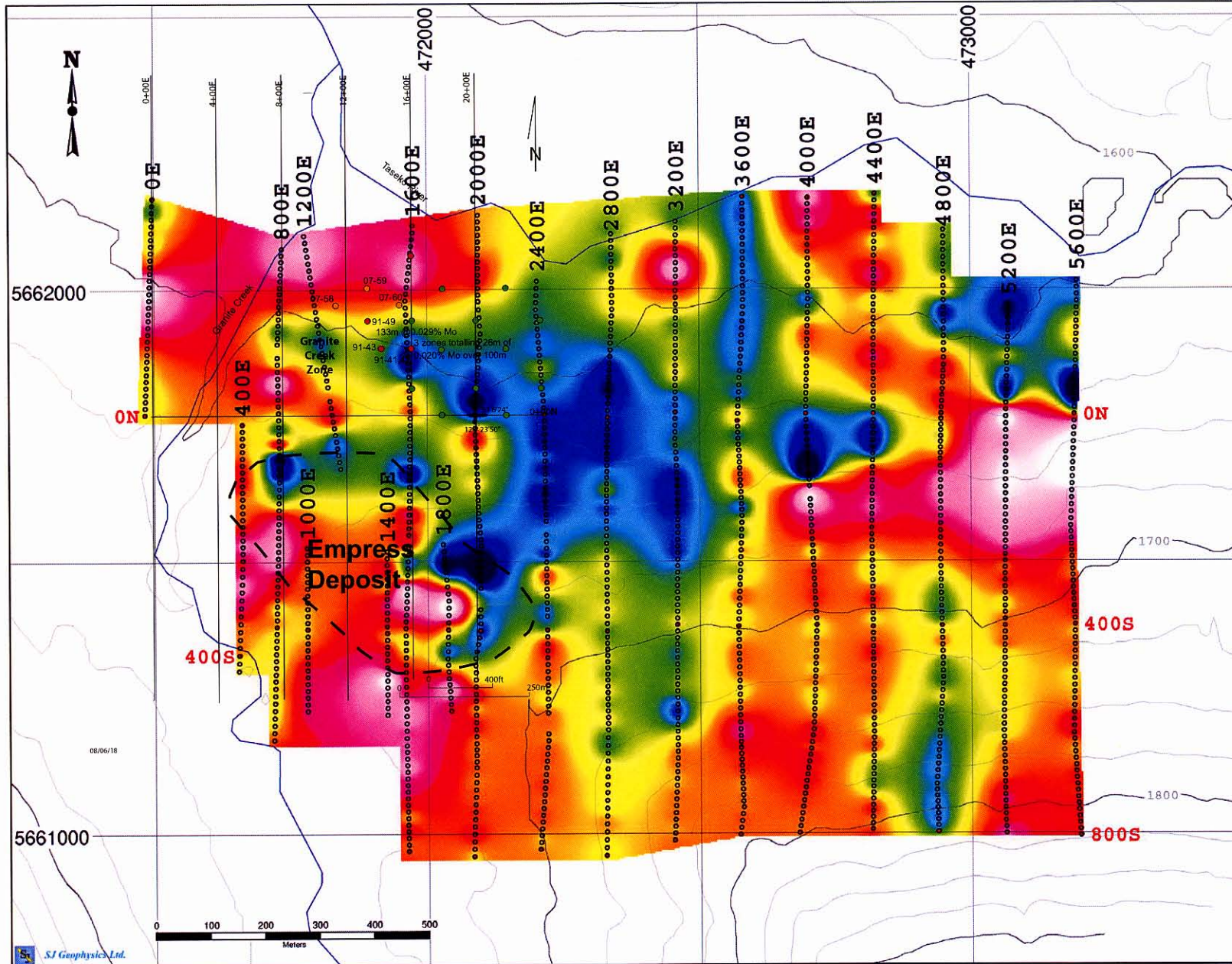
**Granite Creek Zone:** A ground magnetic survey conducted in 2007 (Figure 7) delineated a large magnetic low E-SE of the Granite Creek Zone. Given that there is little to no magnetite in the units hosting molybdenum mineralization in the Granite Creek Zone, it is recommended that step-out holes heading east-southeast from Holes 91-49 and 07-60, toward the magnetic low, be carried out.

**Empress Deposit:** Continue with in-fill and step-out drilling in the Empress Deposit to add to the mineral resource of the deposit, concentrating on the following areas:

- A. Upper North Zone: drill east of Hole 90-20 to test the continuation of the zone NE along strike.
- B. 76-Zone: continue stepout drilling to the N and NE of Hole 89-5 to test the continuation of the zone along strike.
- C. In-fill drilling in the area east of Hole 90-31 if mineralization is successfully intersected in the above two zones. This would test if there is any merging of mineralization between the two zones.

**Cu-Soil Anomalies:** Conduct spot drilling within the greatest concentration of Cu-soil anomalies that extend 2.4 km west from the Buzzer Zone (Figure 5).





Magnetic Total Field Intensity (nT)  
Datum: 56000 nT

- > 56000
- 55700 - 56000
- 55600 - 55700
- 55500 - 55600
- 55400 - 55500
- 55300 - 55400
- 55200 - 55300
- 55100 - 55200
- 55000 - 55100
- 54900 - 55000
- 54800 - 54900
- 54700 - 54800
- 54600 - 54700
- 54500 - 54600
- 54400 - 54500
- < 54400

Survey Information  
Survey by: SJ Geophysics Ltd.  
Mapping Date: October, 2007  
Projection: UTM WGS84 Zone 10

- Legend
- Survey Stations
  - Contour Lines (m) - from DEM
  - Rivers
  - Possible 2008 Drill Hole
  - 2007 Drill Hole
  - Previous Drill Hole

GREAT QUEST METALS LTD.  
Taseko Property  
B.C. Canada

GROUND MAGNETIC SURVEY  
Magnetic Total Field Intensity (nT)  
False Color Contour Map

Figure 7

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## STATEMENT OF EXPENDITURES

### Helicopter

Small Bell, \$950/hr, 43.0 hours	\$ 40,850
Small Bell, \$975/hr, 14.6 hours	14,235
Bell 206L, \$1390/hr, 4.7 hours	6,533
Bell 206L, \$1495/hr, 16.2 hours	24,219
XHH, \$1625/hr, 68.3 hours	110,988
XHH, \$1695/hr, 3.1 hours	5,255
Bell 407, \$1795/hr, 6.2 hours	11,129
Bell 212, \$2650/hr, 31.7 hours	<u>84,005</u>
	\$297,213
Fuel	<u>39,832</u>
<b>Total</b>	<b>\$337,045</b>

### Diamond Drilling

6 NQ holes, 1421.3 m @ \$110/m	<b>Total</b>	<b>\$156,343</b>
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### Camp (Subcontract – Ranex Exploration)

Sep.12 – Dec. 12, 2007 (92 days)	
Expediting, camp support staff, mob/demob, travel expenses, supplies, food fuel, transportation, telecommunication	\$343,020
Camp Rental	<u>75,499</u>
<b>Total</b>	<b>\$418,519</b>

### Assaying (ALS Chemex – Vancouver, BC)

339 core samples (Au FA-AAA finish, 35-element ICP)	<b>Total</b>	<b>\$ 11,345</b>
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### Geological

Ellen MacNeill, P.Geo., Field: 13.2 days @ \$600/day	\$ 7,920
Report	<u>4,687</u>
<b>Total</b>	<b>\$ 12,607</b>

### Management Fees (5% - Ranex Exploration)

<b>Total</b>	<b>\$ 46,793</b>
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<b>Grand Total</b>	<b>\$982,652</b>
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Overall costs for the work reported were very high for the following reasons. The program was originally intended to be carried out using an existing road that had been built in the 1970's by Sumitomo Mining to access the area for gold, copper and molybdenum exploration. The road was also used by various other exploration companies into the mid-1990's for work programs on nearby properties. Despite extensive recreational usage after mid-1990, Great Quest was not allowed to upgrade and use the road for the current program.

In addition to the road problem, the permit process dragged on for months, not only because of First Nations' issues, but because of multiple objections by the Ministry of Forests, Department of Fisheries and the Department of the Environment. The Company first filed a Notice of Work with Energy, Mines and Petroleum Resources on July 11, 2007, but the Mines Act Permit MX-4-492 was not approved until November 7, 2007. A camp was established in September and maintained until the permit was issued. Line-cutting and a magnetic survey were carried out from September 31 to October 12, 2007 and a report was filed on the work on October 30, 2007 (Event Number 4177532). Drilling, therefore, began near the end of November.

Due to the lateness of the season and road restriction, the Company was forced to use helicopter support for the entire program. Temperatures reached as low as  $-18^{\circ}\text{C}$ , and bad weather precluded continuous helicopter support, creating costly delays and standby charges. Because of the inability to use the road in August – September, the long delay in the issuance of the permit, and problems with weather when the program finally started, helicopter costs for the project were an exorbitant \$337,045.

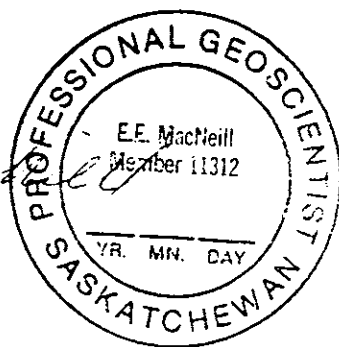
## STATEMENT OF QUALIFICATIONS

I, Ellen MacNeill, of RR5, Site 25, C16, Prince Albert, Saskatchewan, S6V5R3, am a self-employed professional geologist. I hereby certify that:

1. I am a graduate of University of Washington (B.Sc, 1979), and University of New Mexico (M.Sc., 1983).
2. I am a member in good standing with the Association of Professional Engineers and Geoscientists of Saskatchewan.
3. I have practiced my profession in mineral exploration part time since 1979 in the United States, and since 1986 in Canada.
4. The information, opinions, and recommendations in this report are based on fieldwork carried out in my presence on the Taseko Property from November 28 to December 8, 2007. Previously, I was site geologist for four consecutive field seasons on the Property from 1988 to 1992, and authored all assessment reports that describe that work.
5. I am independent and at arm's length of Great Quest Minerals

*Ellen MacNeill*

Ellen MacNeill, P. Geo.



April 14, 2008

## **APPENDIX**

Cross Section A-A' – Granite Creek Zone

Cross Section B-B' – Empress Deposit

Summary Drill Logs

Sample Numbers and Cu - Au - Mo Assays

Assay Certificates



W

8+00 E

12+00 E

16+00 E

E

A

A'

07-58

07-59 (projected  
28m south)

07-60

- Mafic Porphyry Dike
- Andesite Dike
- Quartz Diorite
- Quartz-andalusite-chlorite altered quartz diorite
- Quartz-andalusite-pyrophyllite altered quartz diorite
- Overburden



TD: 304.6 m

TD: 304.6 m

TD: 307.6m

0.15%Cu,  
0.14g/t Au

0.14%Cu,  
0.10g/t Au

0.12%Cu,  
0.10g/t Au

0.19%Cu,  
0.41g/t Au

0.12%Cu  
0.10g/t Au

0.20% Mo

0.09% Mo

0.02% Mo

0.05% Mo

0.04% Mo

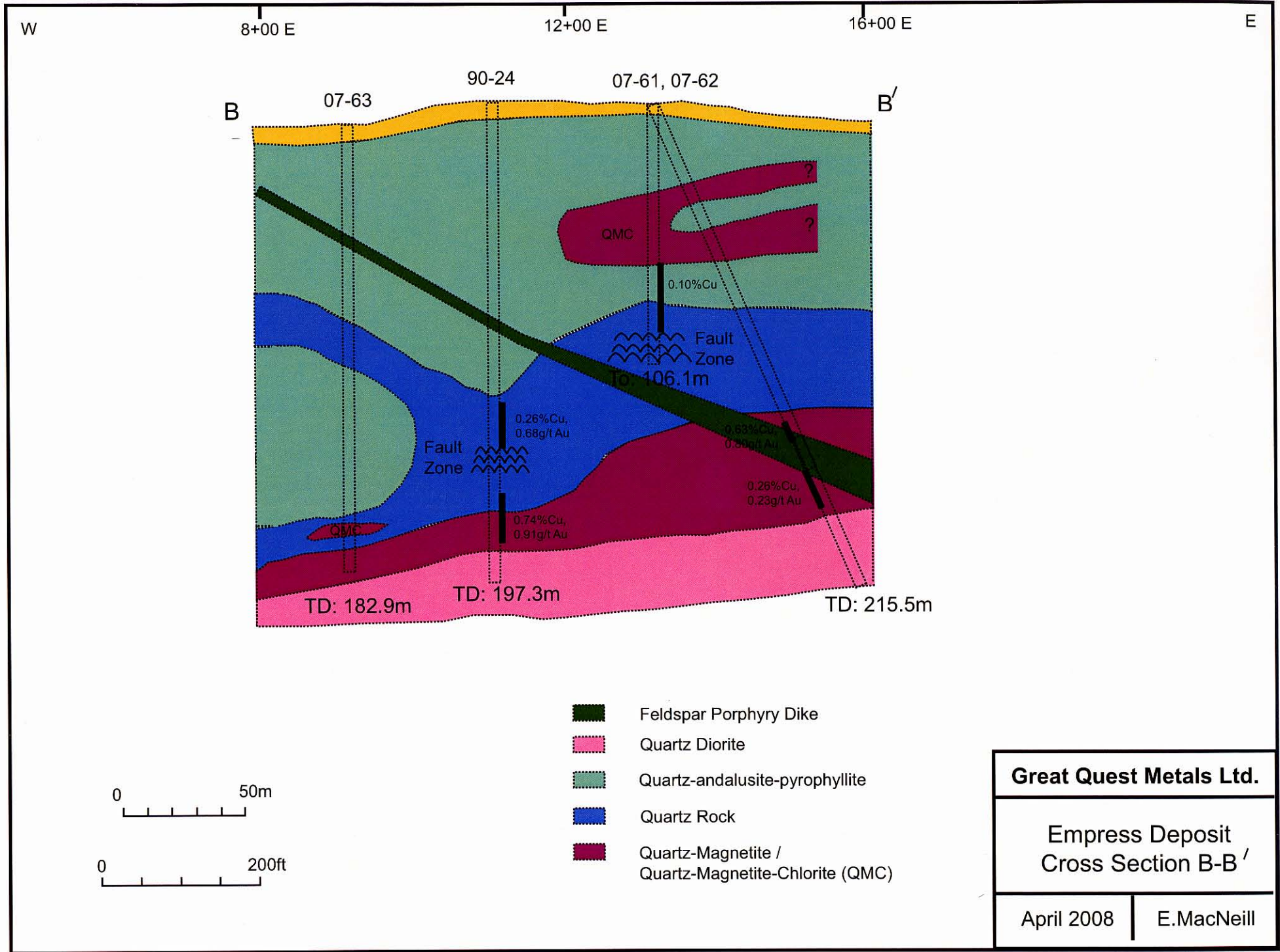
0.18%Cu, 0.34g/t Au

**Great Quest Metals Ltd.**

Granite Creek Zone  
Cross Section A-A'

April 2008

E.MacNeill



## 2007 SUMMARY DRILL LOGS

### ABBREVIATIONS

Q	=	Quartz
Plag	=	Plagioclase
Andal	=	Andalusite
Pyro	=	Pyrophyllite
Chl	=	Chlorite
Bio	=	Biotite
Cal	=	Calcite
Mag	=	Magnetite
Py	=	Pyrite
Cpy	=	Chalcopyrite
Pyrr	=	Pyrrhotite
Moly	=	Molybdenite
Alt	=	Alteration

## HOLE 07-58

**Dip:** -90°  
**Depth:** 304.6 m  
**Core:** NQ

### INTERVAL(m)

### DESCRIPTION

0 – 7.8	<b>OVERBURDEN</b>
7.8 – 300.0	<p><b>QUARTZ DIORITE:</b> variably altered, coarse grained intrusive from slight propylitic alt, to moderate argillic or silicic alt, to strong phyllic alt. Unit becomes less altered with depth. Plag phenocrysts vary from fresh (bluish, zone, euhedral) to total replacement by clay. Py is ubiquitous, varying from trace to 10%, disseminated and as veinlets and replacements of mafics. Cpy content variable, from 0-3%, disseminated and as veinlets and as local coarse blebs.</p> <p>71.6-86.3 = cpy as coarse blebs</p> <p>118.9-126.5 = cpy as disseminated and blebs</p> <p>162.5-182.9 = strong Q-Andal alt</p> <p>211.6-215.9 = 4 mafic (andesite) dikes occur in this interval; medium grey-green, fine grained, slightly magnetic; sharp contacts.</p>
300.0 – 304.6	<b>ANDESITE DIKE:</b> dark green/grey groundmass with small ( $\leq 1$ mm) white and pink spots plag(?) that are irregularly shaped (not laths). Slightly magnetic; unmineralized.
304.6	<b>EOH</b>

## HOLE 07-59

Dip: -90°  
Depth: 304.6 m  
Core: NQ

<u>INTERVAL(m)</u>	<u>DESCRIPTION</u>
0 – 11.0	<b>OVERBURDEN</b>
11.0 – 29.9	<b>MAFIC PORPHYRY DIKE:</b> dark green/black, fine grained groundmass with abundant pale green plagioclase phenocrysts of highly variable shapes and sizes ( $\leq 1$ cm to $+10$ cm); also contains circular blebs of calcite/magnetite; weakly to moderately magnetic; local calcite $\pm$ gypsum veining. Serpentine slickensides on local fracture surfaces. Unmineralized.
29.9 – 33.8	<b>QUARTZ-ANDALUSITE-CHLORITE ROCK:</b> light grey and dark green mottled rock with a highly chaotic texture consisting of light grey Q, light to medium grey And and blotches of chl. Mixed in are fragments of mafic dike as described above. This unit may possibly be a xenolith.
33.8 – 53.7	<b>MAFIC PORPHYRY DIKE:</b> as above; lower contact sharp at 40° to core axis.
53.7 – 66.2	<b>QUARTZ-ANDALUSITE-CHLORITE ROCK:</b> chl content variable from trace to 10%, occurring as specks. Disseminated pyrr $\pm$ py, locally to 5%. Has the appearance of being an altered quartz diorite.
66.2 – 67.4	<b>FAULT BRECCIA:</b> chaotic mixture of Q-Andal-Chl rock and mafic dike; abundant hematite on fracture surfaces; some gouge.
67.4 – 93.0	<b>QUARTZ DIORITE:</b> unit is a green, white, black speckled rock that grades in and out of obvious intrusive textures, including clay-altered sections and Q-Andal(?) -Chl sections; minor mineralization (py, rare cpy).
93.0 – 120.2	<b>MAFIC PORPHYRY DIKE:</b> as above; upper contact is a breccia that has been healed by a very fine grained black, magnetic material.
120.2 – 157.0	<b>QUARTZ DIORITE:</b> in and out of quartz diorite and mafic dike to 132.6 m. Quartz diorite is variably altered from nearly fresh to strongly clay altered to strong Q-Andal alteration. Trace py/cpy.
157.0 – 181.1	<b>MAFIC PORPHYRY DIKE:</b> as above; lower contact sharp, 80° to core axis.

Continued.....

**Hole 07-59 Page 2**

<b><u>INTERVAL(m)</u></b>	<b><u>DESCRIPTION</u></b>
181.1 – 203.7	<b>QUARTZ DIORITE</b>  181.1-188.4 m = strong Q-Andal-Chl alteration  188.4-203.7 = zone of variable cpy mineralization, strong from 201.5 - 203.7.
203.7 – 221.3	<b>MAFIC PORPHYRY DIKE:</b> as above.
221.3 – 225.3	<b>QUARTZ DIORITE:</b> moderately altered; minor cpy mineralization.
225.3 – 284.4	<b>MAFIC PORPHYRY DIKE:</b> as above.
284.4 – 304.6	<b>QUARTZ DIORITE:</b> moderately altered; minor cpy mineralization.
304.6	<b>EOH</b>

## HOLE 07-60

**Dip:** -90°  
**Depth:** 307.6 m  
**Core:** NQ

<u>INTERVAL(m)</u>	<u>DESCRIPTION</u>
0 – 12.2	<b>OVERBURDEN</b>
12.2 – 169.5	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> light to medium grey with abundant Q-gypsum-pyrite veining, creating a brecciated texture in the top 100 m; gypsum veins locally to 10's of centimeters in width. Py content highly variable, from trace to massive (associated with gypsum/Q veins). Local coarse moly blebs associated with Q/gypsum/py veins. Rare pink/purple fluorite associated with Q/py.
169.5 - 170.1	<b>MAFIC PORPHYRY DIKE:</b> dark green/black, fine grained groundmass with abundant pale green plag phenocrysts of highly variable shapes and sizes ( $\leq 1$ cm to +10 cm); also contains circular blebs of calcite/magnetite; weakly to moderately magnetic; local calcite $\pm$ gypsum veining. Serpentine slickensides on local fracture surfaces. Unmineralized.
170.1 – 172.0	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK</b>
172.0 – 188.9	<b>MAFIC PORPHYRY DIKE:</b> as above.
188.9 – 194.6	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> minor py/cpy mineralization.
194.6 – 271.3	<b>FELDSPAR PORPHYRY ANDESITE DIKE:</b> variably coloured dike, from medium green/grey to beige to light cream; abundant plag phenocrysts (laths) 4-8 mm in size, and less abundant clear grey Q eyes. Chilled upper margin.
271.3 – 307.6	<b>QUARTZ DIORITE:</b> coarse grained intrusive variably altered to Q-Andal. Variable py/cpy mineralization, from trace to 8%.  274.4–289.6 = zone of more abundant cpy mineralization.
307.6	<b>EOH</b>

## HOLE 07-61

**Dip:** -90°  
**Depth:** 106.1 m  
**Core:** NQ

<u>INTERVAL(m)</u>	<u>DESCRIPTION</u>
0 – 4.6	<b>OVERBURDEN</b>
4.6 – 12.2	<b>PLAGIOCLASE-QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> very chaotic mixture of these four minerals, with local disseminated py ± mag; local chl.
12.2 – 37.8	<b>QUARTZ-PYROPHYLLITE ROCK:</b> light grey/green; possible andal present; sugary texture; local abundant disseminated py giving rock a sparkly appearance; local minor faulting.
37.8 – 66.8	<b>QUARTZ-MAGNETITE-CHLORITE ROCK:</b> dark grey/green.
66.8 – 83.2	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> light grey/green; py variable from 1-25%; local magnetite/hematite.  72.9–76.5 = abundant py (25%)  76.8–83.2 = fault zone; local abundant clay; some lost core.
83.2 – 94.5	<b>QUARTZ ROCK:</b> medium gray quartz with abundant py disseminated and as vug fillings; core strongly broken for first 6 m becoming like ball bearings closer to lower fault zone.
94.5 – 104.9	<b>FAULT ZONE:</b> fragments of above lithologies in a clay matrix; 50% core recovery.
104.9 – 106.1	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> local chl and disseminated py.
106.1	<b>EOH</b> – abandoned due to excessive difficulties in advancing the hole beyond fault zone.



## HOLE 07-62

Dip: -65°E

Depth: 215.5 m

Core: NQ

### INTERVAL(m)

### DESCRIPTION

0 – 7.6	<b>OVERBURDEN</b>
7.6 – 36.6	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> light grey/green; sugary texture; local abundant disseminated py giving rock a sparkly appearance.  7.6–10.7 m = fault zone; 40% core loss.  25.6 = sudden increase in chl/mag, changing rock colour to a darker grey/green.
36.6 – 46.7	<b>QUARTZ-MAGNETITE-CHLORITE ROCK:</b> gradual increase in chl/mag with a texture that suggests it is an alteration assemblage after quartz-andal-pyro rock.
46.7 – 57.6	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> as above.  51.8–57.6 = quartz-mag-chl mineral assemblage in brecciated relationship with Q-Andal-Pyro rock.
57.6 – 71.0	<b>MIXED Q-ANDAL-PYRO ROCK AND Q-MAG-CHL ROCK:</b> in and out of med gray Q-Andal-Pyro rock and dark grey/green Q-Mag-Chl rock. Core moderately to strongly broken, local fault gouge.
71.0 – 93.0	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> as at top of hole; local disseminated py to 25%.
93.0 – 138.7	<b>QUARTZ ROCK:</b> medium gray quartz, py disseminated ( $\leq 1\%$ ) and as fracture fillings; pyrophyllite specks begin to appear around 121.9 m and increase in abundance toward the lower contact.
138.7 – 151.5	<b>QUARTZ MAGNETITE ROCK:</b> quartz with disseminated and fracture-filled magnetite/hematite.  144.8–151.5 = zone of cpy mineralization, from trace to 10%.
151.5 – 164.3	<b>FELDSPAR PORPHYRY DIKE:</b> medium gray-green, fine grained groundmass with abundant plag laths (2-8 mm in size); sharp contacts.
164.3 – 183.2	<b>QUARTZ MAGNETITE ROCK:</b> variable mag/hem content; py/cpy mineralization variable, from trace to 10% locally.  144.2-181.7 = zone of cpy mineralization.  180.2–182.3 = broken and brecciated core with abundant hematite on fracture surfaces.

Continued...

**Hole 07-62 Page 2**

<b><u>INTERVAL(m)</u></b>	<b><u>DESCRIPTION</u></b>
183.2 – 215.5	<b>QUARTZ DIORITE:</b> coarse grained intrusive highly altered to many different mineral assemblages over short distances. Unmineralized.
215.5	<b>EOH</b>

## **HOLE 07-63**

**Dip:** -90°  
**Depth:** 182.9 m  
**Core:** NQ

<b><u>INTERVAL(m)</u></b>	<b><u>DESCRIPTION</u></b>
0 – 6.1	<b>OVERBURDEN</b>
6.1 – 47.6	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> light grey/green; sugary texture; local disseminated py (2-10%) giving rock a sparkly appearance.
47.6 – 50.9	<b>ANDESITE DIKE:</b> medium green fine grained dike with chilled margins.
50.9 – 81.7	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> as above; lower 2.4 m goes in and out of Q-Andal-Pyro rock and Quartz Rock.
81.7 – 99.7	<b>QUARTZ ROCK:</b> medium gray quartz with disseminated py; core highly broken and brittle in places making drilling difficult.
99.7 – 160.1	<b>QUARTZ-ANDALUSITE-PYROPHYLLITE ROCK:</b> as above; local chlorite and/or magnetite sections.  151.8-153.7 = fault gouge
160.1 – 163.7	<b>QUARTZ ROCK:</b> as above.
163.7 – 168.6	<b>QUARTZ-MAGNETITE-CHLORITE ROCK:</b> quartz with disseminated and fracture-filled magnetite/hematite/chlorite.
168.6 – 173.8	<b>QUARTZ ROCK:</b> as above; unit also contains a section of pure white quartz (vein); local clay-filled fractures (apple green in colour).
173.8 – 182.9	<b>QUARTZ MAGNETITE ROCK:</b> quartz with disseminated and fracture-filled magnetite/hematite. Very difficult drilling; hard on bits.
182.9	<b>EOH</b>

**SAMPLE NUMBERS AND Cu - Au - Mo ASSAYS**

**Hole 07-58****Total Depth= 304.6 m**

<b>Sample Number</b>	<b>From M</b>	<b>To M</b>	<b>Width M</b>	<b>Cu ppm</b>	<b>Au ppm</b>	<b>Mo ppm</b>	<b>Geology</b>
1	14.9	17.1	2.1	2	<0.005	3	Quartz Diorite
2	24.1	25.9	1.8	310	0.025	1	Quartz Diorite
3	40.5	42.4	1.8	940	0.102	1	Quartz Diorite
4	42.4	44.2	1.8	398	0.065	4	Quartz Diorite
5	44.2	46.0	1.8	399	0.074	2	Quartz Diorite
6	46.0	47.9	1.8	1460	0.111	5	Quartz Diorite
7	47.9	49.7	1.8	2900	0.196	1	Quartz Diorite
8	49.7	51.5	1.8	861	0.192	4	Quartz Diorite
9	51.5	53.4	1.8	918	0.077	2	Quartz Diorite
10	53.4	55.2	1.8	493	0.048	3	Quartz Diorite
11	55.2	57.0	1.8	662	0.051	5	Quartz Diorite
12	57.0	58.8	1.8	181	0.02	2	Quartz Diorite
82	58.8	61.9	3.0	167	0.018	4	Quartz Diorite
104	61.9	64.6	2.7	115	0.02	2	Quartz Diorite
105	64.6	67.4	2.7	48	<0.005	2	Quartz Diorite
106	67.4	70.1	2.7	229	0.028	2	Quartz Diorite
22	70.1	72.0	1.8	772	0.17	9	Quartz Diorite
13	72.0	73.5	1.5	201	0.012	1	Quartz Diorite
14	73.5	75.3	1.8	1140	0.105	4	Quartz Diorite
15	75.3	77.1	1.8	413	0.058	2	Quartz Diorite
16	77.1	79.0	1.8	873	0.137	5	Quartz Diorite
17	79.0	80.8	1.8	491	0.041	1	Quartz Diorite
18	80.8	82.6	1.8	593	0.079	4	Quartz Diorite
19	82.6	84.5	1.8	459	0.037	2	Quartz Diorite
20	84.5	86.3	1.8	2100	0.177	3	Quartz Diorite
21	86.3	88.1	1.8	975	0.076	5	Quartz Diorite
23	88.1	89.9	1.8	70	0.006	2	Quartz Diorite
141	89.9	92.1	2.1	24	0.006	2	Quartz Diorite
142	92.1	94.2	2.1	23	0.005	2	Quartz Diorite
143	94.2	96.0	2.1	15	<0.005	2	Quartz Diorite
24	96.0	97.9	1.8	842	0.063	7	Quartz Diorite
25	97.9	99.7	1.8	1780	0.123	10	Quartz Diorite
26	99.7	101.5	1.8	184	0.032	1	Quartz Diorite
151	101.5	104.3	2.7	343	0.041	2	Quartz Diorite
152	104.3	107.0	2.7	176	0.013	2	Quartz Diorite
153	107.0	109.5	2.4	266	0.02	1	Quartz Diorite
27	109.5	111.3	1.8	272	0.028	1	Quartz Diorite

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
170	111.3	113.4	2.1	224	0.045	8	Quartz Diorite
171	113.4	115.5	2.1	328	0.063	7	Quartz Diorite
28	115.5	117.4	1.8	379	0.038	1	Quartz Diorite
29	117.4	119.2	1.8	955	0.035	3	Quartz Diorite
30	119.2	121.0	1.8	2770	0.249	2	Quartz Diorite
31	121.0	122.9	1.8	1650	0.119	3	Quartz Diorite
32	122.9	124.7	1.8	1010	0.058	2	Quartz Diorite
33	124.7	126.5	1.8	1450	0.098	3	Quartz Diorite
34	126.5	128.4	1.8	809	0.066	3	Quartz Diorite
35	128.4	130.2	1.8	362	0.037	2	Quartz Diorite
36	130.2	132.0	1.8	134	0.016	1	Quartz Diorite
216	132.0	134.8	2.7	119	0.018	4	Quartz Diorite
217	134.8	137.5	2.7	155	0.017	2	Quartz Diorite
218	137.5	140.2	2.7	33	0.014	2	Quartz Diorite
37	140.2	142.1	1.8	174	0.012	1	Quartz Diorite
38	142.1	143.9	1.8	528	0.034	1	Quartz Diorite
39	143.9	145.7	1.8	915	0.051	<1	Quartz Diorite
40	145.7	147.6	1.8	10	<0.005	15	Quartz Diorite
41	147.6	149.4	1.8	708	0.112	2	Quartz Diorite
42	149.4	151.2	1.8	1800	0.152	1	Quartz Diorite
43	151.2	153.0	1.8	1550	0.111	1	Quartz Diorite
44	153.0	154.9	1.8	862	0.065	2	Quartz Diorite
45	154.9	156.7	1.8	1070	0.056	1	Quartz Diorite
46	156.7	158.5	1.8	491	0.047	3	Quartz Diorite
240	158.5	160.7	2.1	474	0.04	1	Quartz Diorite
241	160.7	162.8	2.1	79	0.007	3	Quartz Diorite
242	162.8	164.6	1.8	101	0.008	12	Quartz Diorite
47	164.6	166.5	1.8	90	<0.005	28	Quartz Diorite
243	166.5	171.0	4.6	88	<0.005	21	Quartz Diorite
53	171.0	172.3	1.2	428	0.013	70	Quartz Diorite
48	172.3	174.1	1.8	462	0.021	32	Quartz Diorite
49	174.1	175.9	1.8	774	0.043	73	Quartz Diorite
50	175.9	177.7	1.8	264	0.04	70	Quartz Diorite
51	177.7	179.6	1.8	1820	0.115	72	Quartz Diorite
52	179.6	181.4	1.8	2340	1.29	182	Quartz Diorite
54	181.4	183.2	1.8	2800	0.931	239	Quartz Diorite
55	183.2	185.1	1.8	1370	0.1	2	Quartz Diorite
56	185.1	186.9	1.8	2030	0.219	9	Quartz Diorite
57	186.9	188.7	1.8	946	0.144	1	Quartz Diorite

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
58	188.7	190.5	1.8	2130	0.103	1	Quartz Diorite
59	190.5	193.6	3.0	625	0.097	114	Quartz Diorite
60	193.6	196.6	3.0	303	0.013	4	Quartz Diorite
61	196.6	199.7	3.0	558	0.029	2	Quartz Diorite
62	199.7	201.5	1.8	806	0.053	10	Quartz Diorite
63	201.5	203.4	1.8	1020	0.127	3	Quartz Diorite
64	203.4	205.2	1.8	414	0.027	1	Quartz Diorite
65	205.2	207.0	1.8	506	0.025	23	Quartz Diorite
66	207.0	210.1	3.0	408	0.031	4	Quartz Diorite
67	210.1	213.1	3.0	165	0.009	14	Quartz Diorite
68	213.1	216.2	3.0	248	0.013	3	Quartz Diorite
69	216.2	218.3	2.1	345	0.026	4	Quartz Diorite
70	218.3	220.4	2.1	719	0.046	9	Quartz Diorite
71	220.4	222.6	2.1	405	0.042	11	Quartz Diorite
72	222.6	224.4	1.8	351	0.032	21	Quartz Diorite
73	224.4	226.2	1.8	293	0.013	59	Quartz Diorite
74	226.2	228.0	1.8	229	0.018	13	Quartz Diorite
75	228.0	229.9	1.8	392	0.013	23	Quartz Diorite
76	229.9	231.7	1.8	223	0.341	2	Quartz Diorite
77	231.7	233.5	1.8	47	0.009	1	Quartz Diorite
78	233.5	235.4	1.8	150	0.013	8	Quartz Diorite
79	235.4	237.5	2.1	95	0.012	10	Quartz Diorite
80	237.5	239.3	1.8	1200	0.061	152	Quartz Diorite
81	239.3	241.2	1.8	426	0.041	30	Quartz Diorite
83	241.2	243.0	1.8	155	0.005	3	Quartz Diorite
84	243.0	244.8	1.8	70	<0.005	2	Quartz Diorite
85	244.8	246.6	1.8	93	0.007	4	Quartz Diorite
86	246.6	248.5	1.8	213	0.016	9	Quartz Diorite
87	248.5	250.3	1.8	605	0.03	11	Quartz Diorite
88	250.3	253.4	3.0	247	0.017	7	Quartz Diorite
269	253.4	255.5	2.1	615	0.029	14	Quartz Diorite
270	255.5	257.6	2.1	427	0.052	39	Quartz Diorite
271	257.6	259.5	2.1	543	0.029	20	Quartz Diorite
89	259.5	261.6	2.1	264	0.047	11	Quartz Diorite
272	261.6	263.7	2.1	670	0.037	4	Quartz Diorite
274	263.7	265.9	2.1	380	0.019	5	Quartz Diorite
275	265.9	268.0	2.1	161	0.021	2	Quartz Diorite
90	268.0	270.1	2.1	151	0.006	1	Quartz Diorite
276	270.1	272.3	2.1	672	0.092	5	Quartz Diorite

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
277	272.3	274.4	2.1	116	0.016	2	Quartz Diorite
278	274.4	276.2	1.8	263	0.056	1	Quartz Diorite
279	276.2	278.0	1.8	274	0.03	6	Quartz Diorite
91	278.0	280.5	2.4	264	0.019	24	Quartz Diorite
92	280.5	283.5	3.0	488	0.05	8	Quartz Diorite
93	283.5	285.4	1.8	1910	0.219	34	Quartz Diorite
94	285.4	287.2	1.8	394	0.014	9	Quartz Diorite
95	287.2	289.0	1.8	561	0.028	6	Quartz Diorite
96	289.0	290.9	1.8	580	0.05	4	Quartz Diorite
97	290.9	292.7	1.8	661	0.032	2	Quartz Diorite
98	292.7	294.5	1.8	209	0.01	2	Quartz Diorite
99	294.5	296.3	1.8	1220	0.06	19	Quartz Diorite
100	296.3	298.2	1.8	531	0.042	6	Quartz Diorite
101	298.2	300.0	1.8	751	0.048	3	Quartz Diorite
102	300.0	303.0	3.0	89	<0.005	<1	Andesite Dike

EOH = 304.6 m



**Hole 07-59****Total Depth=304.6 m**

<b>Sample Number</b>	<b>From M</b>	<b>To M</b>	<b>Width M</b>	<b>Cu ppm</b>	<b>Au ppm</b>	<b>Mo ppm</b>	<b>Geology</b>
103	15.2	18.0	2.7	30	<0.005	1	Mafic Dike
107	30.8	33.5	2.7	181	0.019	4	QAS
108	52.1	53.7	1.5	36	0.005	<1	Mafic Dike
109	53.7	55.8	2.1	1160	0.067	7	QAS w/chl
310	55.8	57.9	2.1	426	0.029	5	QAS w/chl
311	57.9	60.1	2.1	553	0.025	4	QAS w/chl
312	60.1	62.2	2.1	425	0.024	5	QAS w/chl
313	62.2	64.6	2.4	383	0.027	3	QAS w/chl
110	64.6	67.4	2.7	414	0.028	3	QAS w/chl
111	67.4	70.1	2.7	54	0.015	2	Quartz Diorite
112	70.1	72.9	2.7	258	0.022	1	Quartz Diorite
113	72.9	75.6	2.7	69	0.014	<1	Quartz Diorite
114	75.6	78.4	2.7	41	0.006	<1	Quartz Diorite
115	78.4	81.1	2.7	229	0.022	<1	Quartz Diorite
116	81.1	83.8	2.7	670	0.057	1	Quartz Diorite
117	83.8	86.3	2.4	396	0.122	1	Quartz Diorite
118	86.3	88.7	2.4	196	0.033	1	Quartz Diorite
119	88.7	91.2	2.4	87	0.010	<1	Quartz Diorite
120	91.2	93.0	1.8	814	0.097	1	Quartz Diorite
121	93.0	95.7	2.7	43	0.007	<1	Mafic Dike
122	95.7	98.2	2.4	27	<0.005	1	Mafic Dike
123	125.6	128.0	2.4	12	<0.005	2	Quartz Diorite
124	133.8	136.3	2.4	46	0.012	1	Quartz Diorite
125	146.6	148.8	2.1	156	0.045	90	Quartz Diorite
126	153.7	156.1	2.4	213	0.015	34	Quartz Diorite
127	178.7	181.1	2.4	29	<0.005	1	Mafic Dike
128	181.1	183.5	2.4	51	<0.005	19	Quartz Diorite
129	183.5	186.0	2.4	78	0.007	46	Quartz Diorite
130	186.0	188.4	2.4	60	0.013	87	Quartz Diorite
131	188.4	190.2	1.8	549	0.086	28	Quartz Diorite
132	190.2	192.1	1.8	780	0.056	27	Quartz Diorite
133	192.1	193.9	1.8	687	0.032	45	Quartz Diorite
134	193.9	195.7	1.8	720	0.093	39	Quartz Diorite
135	195.7	197.6	1.8	1950	0.044	10	Quartz Diorite
136	197.6	199.4	1.8	770	0.054	9	Quartz Diorite
137	199.4	201.2	1.8	796	0.071	13	Quartz Diorite

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
138	201.2	203.7	2.4	3160	0.301	172	Quartz Diorite
144	221.3	223.5	2.1	198	0.020	4	Quartz Diorite
145	223.5	225.3	1.8	153	0.021	4	Quartz Diorite
146	250.6	252.7	2.1	25	<0.005	1	Mafic Dike
147	268.0	270.1	2.1	25	<0.005	<1	Mafic Dike
148	284.5	286.6	2.1	691	0.036	20	Quartz Diorite
149	286.6	288.7	2.1	575	0.030	1	Quartz Diorite
150	288.7	290.9	2.1	492	0.072	5	Quartz Diorite
154	290.9	293.0	2.1	679	0.084	3	Quartz Diorite
155	293.0	295.1	2.1	646	0.045	3	Quartz Diorite
156	295.1	297.3	2.1	513	<0.005	13	Quartz Diorite
157	297.3	299.4	2.1	302	<0.005	23	Quartz Diorite
158	299.4	301.2	1.8	1900	0.103	80	Quartz Diorite
159	301.2	303.0	1.8	435	0.021	8	Quartz Diorite
160	303.0	304.6	1.5	59	0.006	19	Quartz Diorite

**Hole 07-60****Total Depth=307.6m**

<b>Sample Number</b>	<b>From M</b>	<b>To M</b>	<b>Width M</b>	<b>Cu ppm</b>	<b>Au ppm</b>	<b>Mo ppm</b>	<b>Geology</b>
161	18.0	20.1	2.1	397	0.012	44	QAS
293	20.1	22.3	2.1	140	0.009	66	QAS
294	22.3	24.4	2.1	120	0.046	47	QAS
295	24.4	26.5	2.1	222	0.013	48	QAS
296	26.5	28.4	2.1	33	0.007	96	QAS
297	28.4	30.5	2.1	119	0.029	63	QAS
298	30.5	32.6	2.1	282	0.016	99	QAS
299	32.6	35.1	2.4	45	0.015	82	QAS
300	35.1	37.5	2.4	16	0.038	109	QAS
301	37.5	39.9	2.4	9	0.013	123	QAS
302	39.9	42.4	2.4	14	0.024	126	QAS
162	42.4	44.5	2.1	10	0.040	119	QAS
303	44.5	46.6	2.1	16	0.180	105	QAS
304	46.6	48.8	2.1	11	0.052	669	QAS
305	48.8	50.9	2.1	11	0.046	59	QAS
306	50.9	52.7	2.1	21	0.016	100	QAS
307	52.7	54.9	2.1	34	0.029	38	QAS
308	54.9	56.7	1.8	16	0.068	67	QAS
309	56.7	58.5	1.8	81	0.068	38	QAS
163	58.5	60.7	2.1	20	0.076	253	QAS
164	60.7	62.8	2.1	9	0.033	64	QAS
165	62.8	64.9	2.1	10	0.024	37	QAS
166	64.9	67.1	2.1	41	0.147	46	QAS
167	67.1	69.2	2.1	12	0.030	20	QAS
168	69.2	71.0	2.1	4	0.015	84	QAS
169	71.0	73.2	2.1	7	0.011	891	QAS
172	73.2	75.3	2.1	24	0.021	49	QAS
173	75.3	77.4	2.1	13	0.022	31	QAS
174	77.4	79.6	2.1	17	0.020	23	QAS
175	79.6	81.7	2.1	15	0.072	113	QAS
176	81.7	83.8	2.1	19	0.026	66	QAS
177	83.8	86.0	2.1	505	0.051	56	QAS
178	86.0	88.1	2.1	22	0.021	44	QAS
179	88.1	90.2	2.1	36	0.031	77	QAS
180	90.2	92.4	2.1	17	0.018	77	QAS
181	92.4	94.5	2.1	1140	0.129	77	QAS
182	94.5	96.6	2.1	35	0.036	206	QAS

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
183	96.6	98.5	2.1	393	0.05	135	QAS
184	98.5	100.6	2.1	577	0.122	290	QAS
185	100.6	102.7	2.1	1250	0.075	190	QAS
186	102.7	104.6	2.1	417	0.016	133	QAS
187	104.6	106.7	2.1	34	0.096	165	QAS
188	106.7	108.8	2.1	115	0.033	288	QAS
189	108.8	111.3	2.1	244	0.042	66	QAS
190	111.3	113.4	2.1	31	0.013	45	QAS
191	113.4	115.5	2.1	20	0.027	28	QAS
192	115.5	117.7	2.1	1220	0.085	27	QAS
193	117.7	119.8	2.1	711	0.064	15	QAS
194	119.8	121.6	2.1	31	0.085	941	QAS
195	121.6	123.8	2.1	31	0.058	324	QAS
196	123.8	125.9	2.1	129	0.025	131	QAS
197	125.9	128.4	2.4	9	0.037	604	QAS
198	128.4	130.8	2.4	346	0.036	45	QAS
199	130.8	133.2	2.4	132	0.023	89	QAS
200	133.2	135.7	2.4	706	0.012	195	QAS
201	135.7	138.1	2.4	73	0.016	517	QAS
202	138.1	140.5	2.4	35	<0.005	208	QAS
203	140.5	143.0	2.4	65	0.006	348	QAS
204	143.0	145.4	2.4	48	0.008	625	QAS
205	145.4	147.9	2.4	22	<0.005	303	QAS
206	147.9	150.3	2.4	35	<0.005	263	QAS
207	150.3	152.7	2.4	41	<0.005	203	QAS
208	152.7	155.2	2.4	65	<0.005	298	QAS
209	155.2	157.6	2.4	54	<0.005	389	QAS
210	157.6	160.1	2.4	48	<0.005	246	QAS
211	160.1	162.5	2.4	15	<0.005	670	QAS
212	162.5	164.9	2.4	11	<0.005	158	QAS
213	164.9	167.4	2.4	32	<0.005	105	QAS
214	167.4	169.8	2.4	42	0.005	717	QAS
215	169.8	172.0	2.1	40	<0.005	63	QAS
	172.0	189.0	17.1				Mafic Dike
340	173.5	175.6	2.1	45	0.009	2	Mafic Dike
219	189.0	191.5	2.4	180	0.054	56	QAS
220	191.5	193.6	2.1	30	<0.005	124	QAS
221	207.0	209.1	2.1	18	<0.005	1	Feld Porphyry Dike
222	240.5	242.7	2.1	11	<0.005	1	Feld Porphyry Dike

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
223	271.3	273.5	2.1	944	0.104	6	Quartz Diorite
224	273.5	275.6	2.1	1815	0.227	30	Quartz Diorite
225	275.6	277.7	2.1	1210	0.143	28	Quartz Diorite
226	277.7	279.9	2.1	1355	0.321	40	Quartz Diorite
227	279.9	282.0	2.1	3880	0.876	18	Quartz Diorite
228	282.0	284.1	2.1	1395	0.368	2	Quartz Diorite
229	284.1	286.3	2.1	2210	0.441	20	Quartz Diorite
230	286.3	288.4	2.1	1585	0.21	23	Quartz Diorite
231	288.4	290.5	2.1	364	0.028	7	Quartz Diorite
232	290.5	292.7	2.1	158	0.015	3	Quartz Diorite
233	292.7	294.8	2.1	344	0.043	2	Quartz Diorite
234	294.8	297.0	2.1	743	0.116	11	Quartz Diorite
235	297.0	299.1	2.1	352	0.035	3	Quartz Diorite
236	299.1	301.2	2.1	181	0.031	4	Quartz Diorite
237	301.2	303.4	2.1	193	0.099	4	Quartz Diorite
238	303.4	305.5	2.1	432	0.047	5	Quartz Diorite
239	305.5	307.6	2.1	442	0.108	2	Quartz Diorite

**Hole 07-61****Total Depth=106.1m**

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
244	5.8	7.9	2.1	1550	0.173	12	QAS, QMC, PQSA
245	18.0	20.1	2.1	114	0.02	3	QAS, QMC, PQSA
246	30.5	32.6	2.1	385	0.018	8	QAS, QMC, PQSA
247	37.8	39.9	2.1	438	0.081	8	QAS, QMC, PQSA
248	51.5	53.7	2.1	201	0.012	6	QAS, QMC, PQSA
249	60.7	62.8	2.1	229	0.017	4	QAS, QMC, PQSA
250	67.1	69.2	2.1	619	0.047	6	QAS, QMC, PQSA
251	73.2	75.3	2.1	655	0.079	9	QAS, QMC, PQSA
252	75.3	77.4	2.1	1175	0.09	7	QAS, QMC, PQSA
253	77.4	81.1	3.7	1245	0.066	2	QAS, QMC, PQSA
254	81.1	83.2	2.1	914	0.054	7	QAS, QMC, PQSA
255	83.2	85.4	2.1	883	0.101	21	QR
256	85.4	88.1	2.7	915	0.073	11	QR
257	88.1	94.5	6.4	1120	0.093	15	QR

\*Note: Spot sampling between 5.8 – 73.2 m

**Hole 07-62****Total Depth=215.5m**

Sample Number	From M	To M	Width M	Cu ppm	Au ppm	Mo ppm	Geology
258	102.1	104.3	2.1	194	<0.005	2	QR
259	118.6	120.7	2.1	244	0.011	2	QR
260	133.8	136.0	2.1	322	0.014	5	QR
261	136.0	138.1	2.1	553	0.038	4	QR
262	138.1	140.2	2.1	560	0.04	30	QM
263	140.2	142.4	2.1	403	0.023	12	QM
264	142.4	144.2	2.1	885	0.038	16	QM
265	144.2	146.3	2.1	2290	0.152	10	QM
266	146.3	148.5	2.1	>10000	1.805	47	QM
267	148.5	150.0	1.5	2800	0.662	31	QM
268	150.0	151.5	1.5	3790	0.418	28	QM
NS	151.5	164.3	12.8				Feld Porphyry Dike
273	164.3	166.2	1.8	5540	0.536	388	QM
280	166.2	168.0	1.8	4150	0.258	123	QM
281	168.0	169.8	1.8	3150	0.518	23	QM
282	169.8	171.6	2.1	1290	0.068	17	QM
283	171.6	173.8	2.1	1270	0.115	18	QM
284	173.8	175.6	1.8	1570	0.11	17	QM
285	175.6	177.4	1.8	1770	0.086	24	QM
286	177.4	179.3	1.8	2380	0.362	15	QM
287	179.3	181.7	2.4	2490	0.094	51	QM
288	181.7	183.2	2.1	587	0.031	7	QM
289	183.2	185.4	2.1	77	0.033	4	Quartz Diorite
290	185.4	187.5	2.1	411	0.026	4	Quartz Diorite
291	194.5	196.6	2.1	84	0.022	2	Quartz Diorite
292	206.7	208.8	2.1	112	0.011	3	Quartz Diorite

**Hole 07-63****Total Depth=182.9m**

<b>Sample Number</b>	<b>From M</b>	<b>To M</b>	<b>Width M</b>	<b>Cu ppm</b>	<b>Au ppm</b>	<b>Mo ppm</b>	<b>Geology</b>
314	9.1	11.3	2.1	137	0.029	6	QAS
315	18.9	21.0	2.1	79	0.017	2	QAS
316	27.4	29.6	2.1	75	0.014	3	QAS
317	39.6	41.8	2.1	187	0.019	2	QAS
318	54.6	56.7	2.1	33	0.01	3	QAS
319	64.6	66.8	2.1	51	0.01	2	QAS
320	77.4	79.6	2.1	21	0.006	3	QAS
321	86.3	88.4	2.1				QR
322	96.3	98.5	2.1	98	0.009	2	QR
323	105.8	107.6	2.1	240	0.019	7	QAS
324	118.3	120.1	2.1	219	0.015	3	QAS
325	127.7	129.9	2.1	121	0.017	2	QAS
326	136.6	138.7	2.1	437	0.027	8	QAS
327	148.8	150.9	2.1	322	0.037	4	QAS
328	161.6	163.4	1.8	361	0.031	22	QR/QM
329	163.4	165.2	1.8	798	0.051	21	QR/QM
330	165.2	167.1	1.8	430	0.024	13	QR/QM
331	167.1	168.9	1.8	686	0.067	10	QR/QM
332	168.9	170.7	1.8	979	0.087	27	QR/QM
333	170.7	172.6	1.8	690	0.092	26	QR/QM
334	172.6	174.4	1.8	206	0.098	8	QR/QM
335	174.4	176.2	1.8	594	0.049	8	QR/QM
336	176.2	178.0	1.8	1510	0.109	45	QR/QM
337	178.0	179.9	1.8	459	0.023	4	QR/QM
338	179.9	181.4	1.5	676	0.049	4	QR/QM
339	181.4	182.9	1.5	1090	0.054	16	QR/QM

\*Note: Spot sampling between 9.1 – 150.9 m



**ASSAY CERTIFICATES**



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515 - 475 HOWE STREET  
VANCOUVER BC V3C 2B3

Page: 1  
Finalized Date: 7-JAN-2008  
This copy reported on 2-JUL-2008  
Account: GRQUME

## CERTIFICATE VA07148602

Project:

P.O. No.:

This report is for 100 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 11-DEC-2007.

The following have access to data associated with this certificate:

TIM JOHNSON

BILL OSBOURNE

STEVE SOBY

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: GREAT QUEST METALS  
ATTN: BILL OSBOURNE  
515 - 475 HOWE STREET  
VANCOUVER BC V3C 2B3

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
Total # Pages: 4 (A - C)  
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Account: GRQUME

## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
D110001		4.58	<0.005	<0.2	0.46	<2	<10	90	<0.5	<2	1.09	<0.5	1	8	2	0.31
D110002		3.18	0.025	<0.2	1.51	4	10	130	<0.5	<2	1.14	<0.5	28	42	310	2.85
D110003		3.72	0.102	<0.2	1.13	11	10	500	<0.5	<2	2.40	<0.5	27	32	940	1.47
D110004		4.10	0.065	<0.2	1.15	30	10	1010	<0.5	<2	2.74	<0.5	22	22	398	1.39
D110005		3.44	0.074	<0.2	1.42	12	10	330	<0.5	<2	1.63	<0.5	13	44	399	1.38
D110006		4.28	0.111	<0.2	1.55	7	10	200	<0.5	<2	1.03	<0.5	16	45	1460	1.71
D110007		4.32	0.196	0.3	1.55	7	10	90	<0.5	<2	1.14	<0.5	28	49	2900	2.01
D110008		4.00	0.192	<0.2	1.26	10	10	60	<0.5	<2	0.72	<0.5	14	36	861	1.46
D110009		3.70	0.077	<0.2	1.51	4	10	80	<0.5	<2	0.91	<0.5	23	47	918	1.99
D110010		4.20	0.048	<0.2	1.56	<2	10	80	<0.5	<2	1.10	<0.5	21	38	493	2.43
D110011		4.66	0.051	<0.2	1.57	4	<10	60	<0.5	<2	0.94	<0.5	24	49	662	2.88
D110012		3.40	0.020	<0.2	1.43	3	10	50	<0.5	<2	1.30	<0.5	17	39	181	2.40
D110013		3.30	0.012	<0.2	1.39	6	10	200	<0.5	<2	1.51	<0.5	12	41	201	1.58
D110014		3.84	0.105	0.2	1.58	4	10	390	<0.5	<2	1.73	<0.5	18	36	1140	2.08
D110015		3.82	0.058	<0.2	1.48	4	10	170	<0.5	<2	1.68	<0.5	14	44	413	1.71
D110016		4.34	0.137	<0.2	1.20	13	10	260	<0.5	<2	1.52	<0.5	17	27	873	2.12
D110017		4.02	0.041	<0.2	1.48	2	10	200	<0.5	<2	1.47	<0.5	19	44	491	1.77
D110018		4.50	0.079	<0.2	1.62	2	10	160	<0.5	<2	1.11	<0.5	18	45	593	2.14
D110019		3.70	0.037	<0.2	1.87	2	10	80	<0.5	<2	1.01	<0.5	18	56	459	3.34
D110020		3.40	0.177	0.2	1.85	3	10	130	<0.5	<2	1.06	<0.5	30	49	2100	2.81
D110021		4.80	0.076	<0.2	1.77	3	10	130	<0.5	<2	1.24	<0.5	25	52	975	2.90
D110022		3.78	0.170	<0.2	1.46	8	10	140	<0.5	<2	1.29	<0.5	13	35	772	1.94
D110023		3.84	0.006	<0.2	1.72	2	<10	90	<0.5	<2	0.87	<0.5	16	61	70	3.55
D110024		5.10	0.063	<0.2	1.79	4	10	60	<0.5	<2	1.02	<0.5	22	52	842	2.50
D110025		3.40	0.123	0.3	1.88	2	10	60	<0.5	<2	1.18	<0.5	21	56	1780	3.13
D110026		3.94	0.032	0.4	1.79	7	10	50	<0.5	3	1.82	<0.5	14	42	184	3.16
D110027		3.98	0.028	<0.2	1.62	2	10	120	<0.5	<2	1.27	<0.5	16	50	272	3.31
D110028		3.60	0.038	<0.2	1.30	4	10	200	<0.5	<2	1.53	<0.5	10	35	379	1.36
D110029		4.34	0.035	0.2	1.29	14	10	130	<0.5	<2	1.26	<0.5	7	45	955	0.93
D110030		4.18	0.249	0.5	1.48	15	10	120	<0.5	<2	1.14	<0.5	7	34	2770	1.09
D110031		3.86	0.119	0.2	1.33	17	10	100	<0.5	<2	1.58	<0.5	7	41	1650	1.04
D110032		3.90	0.058	<0.2	1.45	11	10	90	<0.5	<2	0.97	<0.5	9	37	1010	1.20
D110033		4.02	0.098	0.8	1.51	6	10	110	<0.5	<2	1.12	<0.5	17	57	1450	1.67
D110034		3.86	0.066	<0.2	1.62	5	10	90	<0.5	<2	1.11	<0.5	25	47	809	2.47
D110035		3.86	0.037	0.2	1.80	3	10	110	<0.5	<2	1.05	<0.5	17	61	362	3.39
D110036		4.16	0.016	<0.2	1.81	5	10	60	<0.5	<2	1.27	<0.5	19	50	134	3.53
D110037		4.14	0.012	<0.2	1.64	2	<10	80	<0.5	<2	1.19	<0.5	17	59	174	3.22
D110038		4.06	0.034	<0.2	1.80	<2	<10	90	<0.5	<2	0.80	<0.5	20	53	528	3.28
D110039		3.80	0.051	0.2	1.73	<2	10	130	<0.5	<2	1.23	<0.5	19	58	915	2.57
D110040		4.12	<0.005	<0.2	1.37	2	10	180	<0.5	<2	3.27	<0.5	6	34	10	0.90



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Page: 2 - B  
Total # Pages: 4 (A - C)  
Finalized Date: 7-JAN-2008  
Account: GRQUME

## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
D110001		<10	<1	0.18	<10	0.42	121	3	0.01	5	450	3	0.01	<2	1	19
D110002		10	<1	0.21	10	1.30	188	1	0.08	18	480	<2	0.36	<2	7	88
D110003		10	<1	0.29	10	0.85	209	1	0.03	14	390	4	0.33	<2	6	144
D110004		<10	<1	0.35	10	0.67	204	4	0.05	15	420	5	0.32	<2	6	221
D110005		10	<1	0.36	10	1.10	173	2	0.05	16	430	<2	0.05	<2	6	100
D110006		10	<1	0.31	10	1.39	152	5	0.06	23	460	3	0.15	<2	7	50
D110007		10	<1	0.25	10	1.41	167	1	0.05	23	460	4	0.41	<2	6	36
D110008		10	<1	0.21	<10	1.07	114	4	0.05	17	370	3	0.10	<2	5	29
D110009		10	<1	0.24	10	1.21	135	2	0.06	18	430	4	0.21	<2	6	35
D110010		10	<1	0.25	10	1.25	140	3	0.06	17	440	2	0.16	<2	6	36
D110011		10	<1	0.30	10	1.34	117	5	0.08	18	450	3	0.18	<2	7	40
D110012		10	<1	0.28	10	1.22	141	2	0.06	17	460	3	0.03	<2	6	49
D110013		10	<1	0.38	<10	1.08	181	1	0.05	16	410	3	0.05	<2	6	88
D110014		10	<1	0.46	10	1.16	186	1	0.06	18	450	4	0.15	<2	7	164
D110015		10	<1	0.33	10	1.14	259	1	0.04	18	420	2	0.08	<2	6	58
D110016		<10	<1	0.36	10	0.83	198	3	0.04	16	420	3	0.62	<2	6	86
D110017		10	<1	0.29	10	1.24	150	3	0.05	20	440	2	0.09	<2	6	61
D110018		10	1	0.45	10	1.34	138	2	0.08	21	470	3	0.13	<2	8	56
D110019		10	<1	0.43	10	1.55	125	1	0.10	23	490	<2	0.13	<2	8	48
D110020		10	<1	0.67	10	1.59	135	2	0.08	33	500	3	0.64	<2	10	45
D110021		10	<1	0.72	10	1.45	122	1	0.09	27	500	2	0.36	<2	10	55
D110022		10	<1	0.26	10	1.11	241	9	0.05	18	420	3	0.09	<2	5	55
D110023		10	<1	0.72	<10	1.47	138	2	0.13	20	480	3	0.01	<2	10	44
D110024		10	<1	0.36	10	1.53	121	7	0.07	21	480	3	0.38	<2	8	32
D110025		10	1	0.31	10	1.58	145	10	0.08	22	500	4	0.65	<2	8	43
D110026		10	1	0.34	10	1.32	218	1	0.05	18	460	2	0.23	<2	7	43
D110027		10	<1	0.49	10	1.33	125	1	0.07	20	440	3	0.05	<2	8	52
D110028		<10	<1	0.49	10	1.03	185	1	0.05	17	420	2	0.11	<2	6	58
D110029		<10	<1	0.42	<10	1.17	132	3	0.05	23	420	5	0.37	<2	6	39
D110030		10	<1	0.41	<10	1.22	115	2	0.08	24	400	6	0.57	<2	7	39
D110031		<10	<1	0.25	<10	1.20	122	3	0.04	18	400	5	0.56	<2	8	50
D110032		10	<1	0.33	10	1.26	112	2	0.07	16	390	4	0.28	<2	8	35
D110033		10	<1	0.48	10	1.36	122	3	0.07	22	430	4	0.30	<2	8	44
D110034		10	<1	0.45	10	1.42	130	3	0.09	19	420	2	0.38	<2	7	46
D110035		10	1	0.61	10	1.53	132	2	0.11	23	480	7	0.08	<2	9	42
D110036		10	<1	0.38	10	1.51	127	1	0.09	20	470	2	0.06	<2	7	44
D110037		10	<1	0.55	10	1.45	179	1	0.10	22	470	3	0.07	<2	10	47
D110038		10	<1	0.63	10	1.62	145	1	0.11	23	470	4	0.07	<2	9	41
D110039		10	<1	0.57	10	1.60	158	<1	0.08	22	480	3	0.31	<2	9	64
D110040		10	<1	0.59	10	1.26	168	15	0.04	24	470	4	1.68	<2	8	159



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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
D110001		<20	<0.01	<10	<10	4	<10	10
D110002		<20	0.04	<10	<10	71	<10	22
D110003		<20	0.03	<10	<10	38	<10	26
D110004		<20	0.02	<10	<10	35	<10	24
D110005		<20	0.03	<10	<10	55	<10	28
D110006		<20	0.07	<10	<10	72	<10	30
D110007		<20	0.05	<10	<10	67	<10	32
D110008		<20	0.07	<10	<10	57	<10	21
D110009		<20	0.07	<10	<10	64	<10	22
D110010		<20	0.05	<10	<10	63	<10	19
D110011		<20	0.08	<10	<10	69	<10	17
D110012		<20	0.05	<10	<10	64	<10	22
D110013		<20	0.05	<10	<10	44	<10	28
D110014		<20	0.06	<10	<10	54	<10	29
D110015		<20	0.02	<10	<10	55	<10	38
D110016		<20	0.03	<10	<10	53	<10	28
D110017		<20	0.03	<10	<10	53	<10	22
D110018		<20	0.08	<10	<10	69	<10	20
D110019		<20	0.09	<10	<10	84	<10	17
D110020		<20	0.15	<10	<10	90	<10	16
D110021		<20	0.16	<10	<10	87	<10	15
D110022		<20	0.02	<10	<10	56	<10	31
D110023		<20	0.17	<10	<10	92	<10	17
D110024		<20	0.20	<10	<10	88	<10	21
D110025		<20	0.09	<10	<10	75	<10	19
D110026		<20	0.07	<10	<10	70	<10	30
D110027		<20	0.10	<10	<10	77	<10	18
D110028		<20	0.07	<10	<10	59	<10	19
D110029		<20	0.07	<10	<10	64	<10	23
D110030		<20	0.12	<10	10	69	<10	23
D110031		<20	0.10	<10	<10	57	<10	24
D110032		<20	0.12	<10	<10	67	<10	20
D110033		<20	0.13	<10	<10	75	<10	20
D110034		<20	0.12	<10	<10	76	<10	19
D110035		<20	0.14	<10	<10	88	<10	22
D110036		<20	0.08	<10	<10	81	<10	18
D110037		<20	0.13	<10	<10	90	<10	24
D110038		<20	0.16	<10	<10	97	<10	23
D110039		<20	0.13	<10	<10	81	<10	22
D110040		<20	0.08	<10	<10	69	<10	20



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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
D110041		3.48	0.112	<0.2	1.60	<2	<10	160	<0.5	<2	1.07	<0.5	12	58	708	1.37
D110042		4.28	0.152	0.2	1.58	<2	10	400	<0.5	<2	1.18	<0.5	17	44	1800	1.95
D110043		4.12	0.111	0.2	1.45	3	10	160	<0.5	<2	1.29	<0.5	14	55	1550	1.55
D110044		4.00	0.065	<0.2	1.28	3	10	480	<0.5	<2	1.76	<0.5	9	31	862	1.24
D110045		4.40	0.056	0.3	1.05	9	10	160	<0.5	<2	2.13	<0.5	10	32	1070	1.61
D110046		4.04	0.047	<0.2	1.15	6	10	350	<0.5	<2	2.03	<0.5	8	27	491	1.03
D110047		3.88	<0.005	<0.2	1.44	2	10	210	<0.5	<2	1.67	<0.5	4	32	90	0.77
D110048		3.92	0.021	<0.2	1.55	4	10	290	<0.5	<2	1.24	<0.5	7	34	462	1.04
D110049		4.04	0.043	0.2	1.44	5	10	200	<0.5	<2	1.93	<0.5	7	36	774	1.09
D110050		4.30	0.040	<0.2	0.97	8	10	520	<0.5	<2	1.99	<0.5	5	12	264	0.77
D110051		4.64	0.115	0.2	0.92	11	10	660	<0.5	<2	1.64	<0.5	6	25	1820	0.88
D110052		3.88	1.290	<0.2	0.88	29	10	580	<0.5	<2	2.40	<0.5	7	11	2340	0.97
D110053		3.82	0.013	0.2	1.25	5	10	410	<0.5	<2	1.09	<0.5	6	39	428	0.86
D110054		4.16	0.931	<0.2	0.90	7	20	500	<0.5	<2	2.20	<0.5	7	18	2800	1.29
D110055		4.10	0.100	<0.2	1.55	8	10	170	<0.5	<2	1.46	<0.5	15	47	1370	2.07
D110056		3.42	0.219	<0.2	1.37	15	10	370	<0.5	<2	2.08	<0.5	13	31	2030	1.76
D110057		3.40	0.144	<0.2	1.41	8	10	150	<0.5	<2	1.08	<0.5	15	46	946	2.04
D110058		3.54	0.103	<0.2	1.19	21	10	310	<0.5	<2	2.02	<0.5	17	35	2130	2.81
D110059		7.44	0.097	<0.2	0.69	89	20	2110	<0.5	<2	2.83	<0.5	20	24	625	3.07
D110060		6.88	0.013	<0.2	0.99	23	20	200	<0.5	<2	1.92	<0.5	16	29	303	2.95
D110061		6.74	0.029	<0.2	1.19	19	10	110	<0.5	<2	1.54	<0.5	16	42	558	2.93
D110062		3.58	0.053	<0.2	1.27	7	10	70	<0.5	<2	1.62	<0.5	16	35	806	2.49
D110063		4.34	0.127	<0.2	1.33	2	10	70	<0.5	<2	1.36	<0.5	14	37	1020	2.93
D110064		4.12	0.027	<0.2	1.33	8	10	60	<0.5	<2	1.46	<0.5	16	33	414	2.88
D110065		4.42	0.025	<0.2	0.97	41	10	70	<0.5	<2	1.71	<0.5	18	37	506	3.42
D110066		7.52	0.031	<0.2	1.60	6	10	100	<0.5	<2	1.50	<0.5	17	41	408	3.37
D110067		5.52	0.009	<0.2	1.86	7	10	320	<0.5	<2	3.47	<0.5	14	32	165	2.74
D110068		7.44	0.013	<0.2	2.34	10	10	260	0.6	<2	4.75	<0.5	19	30	248	3.62
D110069		4.18	0.026	<0.2	1.58	6	10	90	<0.5	<2	1.32	<0.5	17	45	345	3.34
D110070		4.10	0.046	<0.2	1.49	3	10	100	<0.5	<2	1.15	<0.5	17	41	719	3.19
D110071		3.44	0.042	<0.2	1.45	6	10	100	<0.5	<2	1.38	<0.5	17	40	405	3.06
D110072		3.94	0.032	<0.2	1.46	5	10	200	<0.5	<2	1.17	<0.5	15	38	351	2.95
D110073		4.16	0.013	<0.2	1.55	3	10	170	<0.5	<2	1.27	<0.5	16	45	293	3.23
D110074		4.26	0.018	<0.2	1.51	5	10	150	<0.5	<2	1.07	<0.5	16	43	229	3.44
D110075		3.92	0.013	<0.2	1.40	2	<10	100	<0.5	<2	0.80	<0.5	14	44	392	3.03
D110076		3.60	0.341	<0.2	1.51	3	<10	70	<0.5	<2	0.84	<0.5	15	47	223	3.25
D110077		3.58	0.009	<0.2	1.42	3	10	70	<0.5	<2	1.02	<0.5	19	41	47	3.18
D110078		3.16	0.013	<0.2	1.24	3	<10	70	<0.5	<2	1.00	<0.5	14	42	150	2.93
D110079		4.64	0.012	<0.2	1.26	2	10	40	<0.5	<2	1.05	<0.5	13	32	95	2.49
D110080		4.42	0.061	<0.2	1.28	8	10	30	<0.5	<2	1.55	<0.5	15	34	1200	2.32



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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
D110041		10	<1	0.72	<10	1.60	128	2	0.09	29	460	3	0.30	<2	9	62
D110042		10	<1	0.53	10	1.47	136	1	0.08	24	420	3	0.36	<2	8	80
D110043		10	<1	0.51	10	1.42	146	1	0.07	24	430	3	0.39	<2	8	56
D110044		<10	<1	0.46	10	1.07	178	2	0.06	18	350	3	0.38	<2	6	131
D110045		<10	<1	0.43	10	0.71	180	1	0.04	19	370	4	0.96	<2	5	200
D110046		10	<1	0.49	10	0.81	202	3	0.05	17	390	3	0.17	<2	5	102
D110047		<10	<1	0.40	10	1.08	199	28	0.04	13	520	5	0.47	<2	3	104
D110048		10	<1	0.40	<10	1.22	211	32	0.05	23	460	4	0.11	<2	4	84
D110049		<10	<1	0.36	10	1.09	230	73	0.04	24	260	5	0.16	<2	4	83
D110050		<10	1	0.32	10	0.64	201	70	0.04	16	160	4	0.13	<2	2	127
D110051		<10	<1	0.30	10	0.76	168	72	0.03	26	260	6	0.24	<2	3	121
D110052		<10	<1	0.30	20	0.51	176	182	0.04	23	300	4	0.30	<2	4	132
D110053		<10	<1	0.27	<10	1.10	182	70	0.04	21	420	5	0.10	<2	4	73
D110054		<10	<1	0.35	10	1.05	184	239	0.05	23	360	5	0.36	<2	5	182
D110055		10	1	0.45	10	1.42	149	2	0.07	24	450	3	0.24	<2	7	123
D110056		10	<1	0.36	20	1.10	175	9	0.06	23	510	4	0.24	<2	6	112
D110057		10	<1	0.51	20	1.23	140	1	0.08	22	470	<2	0.11	<2	8	52
D110058		10	<1	0.48	20	1.44	188	1	0.08	22	410	3	0.23	<2	8	236
D110059		<10	<1	0.35	20	1.09	269	114	0.08	24	450	5	0.18	2	6	156
D110060		<10	<1	0.46	20	1.06	175	4	0.06	17	440	3	0.05	<2	7	76
D110061		<10	<1	0.45	20	1.22	150	2	0.07	17	400	3	0.07	5	7	101
D110062		10	<1	0.21	30	1.16	163	10	0.05	17	420	2	0.25	<2	5	99
D110063		10	<1	0.26	40	1.17	149	3	0.06	17	400	<2	0.23	<2	6	77
D110064		10	<1	0.27	20	1.14	155	1	0.05	17	410	3	0.09	<2	5	97
D110065		10	<1	0.24	50	1.04	186	23	0.05	19	450	2	0.06	5	6	74
D110066		10	<1	0.25	20	1.35	169	4	0.07	18	440	3	0.11	<2	6	92
D110067		10	1	0.33	20	1.34	276	14	0.05	33	750	15	0.27	<2	5	576
D110068		10	<1	0.36	30	1.77	439	3	0.06	79	1700	10	0.09	<2	7	232
D110069		10	<1	0.50	20	1.26	165	4	0.07	18	420	4	0.07	<2	8	59
D110070		10	<1	0.40	10	1.28	146	9	0.07	19	410	4	0.09	<2	7	69
D110071		10	<1	0.30	10	1.19	154	11	0.06	15	430	4	0.06	<2	6	69
D110072		10	<1	0.53	20	1.19	171	21	0.07	18	440	<2	0.05	<2	8	76
D110073		10	<1	0.52	20	1.28	183	59	0.05	19	380	<2	0.05	2	8	80
D110074		10	<1	0.62	10	1.25	162	13	0.09	16	420	2	0.03	<2	9	72
D110075		10	<1	0.45	10	1.25	164	23	0.08	15	390	3	0.06	<2	7	40
D110076		10	<1	0.44	10	1.36	171	2	0.08	17	380	3	0.03	<2	8	42
D110077		10	<1	0.30	10	1.34	256	1	0.07	17	380	7	0.04	<2	7	36
D110078		<10	<1	0.25	10	1.18	249	8	0.06	15	370	5	0.03	<2	6	27
D110079		10	<1	0.27	10	1.10	147	10	0.06	15	360	3	0.02	<2	5	28
D110080		10	<1	0.26	10	1.00	151	152	0.05	16	610	6	0.17	<2	5	47



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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
D110041		<20	0.15	<10	<10	89	<10	19
D110042		<20	0.12	<10	<10	75	<10	20
D110043		<20	0.11	<10	10	71	<10	22
D110044		<20	0.07	<10	<10	47	<10	23
D110045		<20	0.04	<10	<10	35	<10	27
D110046		<20	0.05	<10	<10	41	<10	24
D110047		<20	<0.01	<10	10	22	<10	25
D110048		<20	0.01	<10	<10	49	<10	29
D110049		<20	<0.01	<10	<10	34	<10	34
D110050		<20	<0.01	<10	<10	14	<10	24
D110051		<20	<0.01	<10	<10	23	<10	28
D110052		<20	<0.01	<10	<10	17	<10	19
D110053		<20	<0.01	<10	<10	43	<10	25
D110054		<20	0.02	<10	<10	31	<10	23
D110055		<20	0.08	<10	<10	70	<10	23
D110056		<20	0.02	<10	<10	47	<10	24
D110057		<20	0.10	<10	<10	79	<10	21
D110058		<20	0.08	<10	<10	77	<10	26
D110059		<20	0.01	<10	<10	44	<10	35
D110060		<20	0.05	<10	<10	57	<10	25
D110061		<20	0.08	<10	<10	70	<10	24
D110062		<20	0.02	<10	<10	57	<10	26
D110063		<20	0.04	<10	<10	62	<10	22
D110064		<20	0.03	<10	<10	56	<10	26
D110065		<20	0.02	<10	<10	75	<10	30
D110066		<20	0.03	<10	<10	66	<10	25
D110067		<20	0.02	<10	<10	44	<10	38
D110068		<20	0.03	<10	<10	66	<10	53
D110069		<20	0.09	<10	<10	72	<10	25
D110070		<20	0.08	<10	<10	76	<10	25
D110071		<20	0.05	<10	<10	58	<10	27
D110072		<20	0.10	<10	<10	67	<10	27
D110073		<20	0.10	<10	<10	70	<10	28
D110074		<20	0.13	<10	<10	77	<10	23
D110075		<20	0.12	<10	<10	68	<10	22
D110076		<20	0.12	<10	<10	73	<10	26
D110077		<20	0.09	<10	<10	74	<10	42
D110078		<20	0.07	<10	<10	63	<10	39
D110079		<20	0.08	<10	<10	55	<10	21
D110080		<20	0.05	<10	<10	39	<10	26





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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
D110081		3.94	0.041	2.1	1.30	3	10	70	<0.5	<2	1.03	<0.5	14	36	426	3.04
D110082		6.80	0.018	<0.2	1.51	4	<10	60	<0.5	<2	0.92	<0.5	17	52	167	2.78
D110083		3.24	0.005	<0.2	1.25	2	10	40	<0.5	<2	1.16	<0.5	13	43	155	3.13
D110084		2.10	<0.005	<0.2	1.21	4	<10	40	<0.5	<2	1.40	<0.5	13	44	70	2.87
D110085		4.72	0.007	<0.2	0.74	12	10	60	<0.5	<2	1.91	<0.5	11	32	93	2.50
D110086		4.20	0.016	<0.2	1.30	2	10	80	<0.5	<2	1.13	<0.5	14	42	213	2.78
D110087		4.10	0.030	<0.2	1.50	5	10	60	<0.5	<2	0.98	<0.5	17	43	605	3.30
D110088		5.10	0.017	<0.2	1.21	2	10	40	<0.5	<2	0.97	<0.5	13	43	247	2.71
D110089		4.64	0.047	<0.2	0.97	5	10	130	<0.5	<2	1.16	<0.5	13	37	264	2.83
D110090		4.68	0.006	<0.2	1.25	3	<10	100	<0.5	<2	1.04	<0.5	15	47	151	3.25
D110091		5.68	0.019	<0.2	1.09	7	10	90	<0.5	<2	1.80	<0.5	18	46	284	4.34
D110092		6.84	0.050	<0.2	1.00	25	10	90	<0.5	<2	1.34	<0.5	18	46	488	3.84
D110093		3.38	0.219	0.3	1.14	16	10	100	<0.5	<2	1.21	<0.5	19	32	1910	3.53
D110094		3.66	0.014	<0.2	1.06	2	10	40	<0.5	<2	0.96	<0.5	14	37	394	2.77
D110095		3.62	0.028	<0.2	1.11	2	10	40	<0.5	<2	1.06	<0.5	15	32	561	3.10
D110096		3.36	0.050	<0.2	1.21	3	10	100	<0.5	<2	0.93	<0.5	17	40	580	3.25
D110097		4.52	0.032	<0.2	1.17	6	<10	50	<0.5	<2	1.11	<0.5	15	36	661	3.27
D110098		2.98	0.010	<0.2	1.07	4	<10	40	<0.5	<2	0.87	<0.5	14	40	209	2.97
D110099		4.32	0.060	<0.2	0.84	29	10	90	<0.5	<2	1.42	<0.5	16	27	1220	3.12
D110100		4.70	0.042	<0.2	0.44	54	20	90	<0.5	<2	1.29	<0.5	12	23	531	2.34



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## CERTIFICATE OF ANALYSIS VA07148602

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	0.01	1	10	2	0.01	2	1	1	
D110081		<10	<1	0.27	10	1.12	164	30	0.08	15	350	3	0.06	<2	6	43
D110082		10	<1	0.38	10	1.25	129	4	0.08	17	430	4	0.05	<2	7	38
D110083		10	<1	0.21	<10	1.21	207	3	0.08	15	430	5	0.03	2	6	44
D110084		10	<1	0.14	10	1.25	226	2	0.06	15	420	3	0.02	<2	7	51
D110085		<10	<1	0.15	10	0.90	222	4	0.05	14	430	4	0.02	<2	7	45
D110086		10	<1	0.28	<10	1.23	162	9	0.07	15	390	3	0.04	<2	6	66
D110087		10	<1	0.42	<10	1.39	159	11	0.06	17	400	2	0.09	<2	9	34
D110088		10	<1	0.22	<10	1.16	167	7	0.07	14	370	<2	0.04	<2	7	31
D110089		<10	<1	0.37	10	1.02	156	11	0.06	15	390	<2	0.04	<2	7	66
D110090		10	<1	0.62	10	1.20	181	1	0.10	17	410	3	0.03	<2	7	46
D110091		10	<1	0.57	10	1.35	198	24	0.07	19	450	4	0.05	<2	8	126
D110092		10	<1	0.45	10	1.30	184	8	0.06	17	430	<2	0.06	2	8	72
D110093		10	<1	0.33	10	1.22	191	34	0.07	17	390	2	0.21	2	7	68
D110094		10	<1	0.22	10	0.95	153	9	0.05	12	330	2	0.05	<2	5	45
D110095		10	<1	0.22	10	1.09	164	6	0.05	14	350	4	0.07	<2	5	42
D110096		10	<1	0.29	10	1.21	177	4	0.05	14	370	3	0.08	<2	5	491
D110097		10	<1	0.25	10	1.09	191	2	0.07	14	370	4	0.07	<2	5	56
D110098		10	<1	0.28	<10	1.05	168	2	0.05	14	350	<2	0.03	<2	6	36
D110099		<10	<1	0.28	<10	0.98	219	19	0.05	14	350	3	0.12	11	5	45
D110100		<10	<1	0.23	10	0.56	200	6	0.03	11	350	3	0.05	20	5	38



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**CERTIFICATE OF ANALYSIS VA07148602**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-JCP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
D110081		<20	0.10	<10	<10	64	<10	24
D110082		<20	0.10	<10	<10	72	<10	21
D110083		<20	0.11	<10	<10	75	<10	28
D110084		<20	0.03	<10	<10	63	<10	26
D110085		<20	0.02	<10	<10	58	<10	25
D110086		<20	0.09	<10	<10	64	<10	22
D110087		<20	0.19	<10	<10	80	<10	23
D110088		<20	0.14	<10	<10	66	<10	24
D110089		<20	0.07	<10	<10	55	<10	22
D110090		<20	0.20	<10	<10	86	<10	27
D110091		<20	0.14	<10	<10	96	<10	27
D110092		<20	0.10	<10	<10	79	<10	25
D110093		<20	0.08	<10	<10	61	<10	26
D110094		<20	0.04	<10	<10	51	<10	27
D110095		<20	0.05	<10	<10	55	<10	23
D110096		<20	0.08	<10	<10	62	<10	24
D110097		<20	0.05	<10	<10	63	<10	28
D110098		<20	0.07	<10	<10	56	<10	26
D110099		<20	0.04	<10	<10	49	<10	29
D110100		<20	0.01	<10	<10	32	<10	29



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## CERTIFICATE VA07148603

Project: taseko

P.O. No.:

This report is for 100 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 11-DEC-2007.

The following have access to data associated with this certificate:

BILL OSBOURNE

STEVE SOBY

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: GREAT QUEST METALS  
ATTN: BILL OSBOURNE  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: taseko

## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
D110101		4.22	0.048	0.9	0.81	11	20	230	<0.5	<2	1.40	<0.5	14	36	751	2.27
D110102		6.64	<0.005	<0.2	1.94	17	10	80	<0.5	<2	2.83	<0.5	18	37	89	3.64
D110103		5.48	<0.005	<0.2	4.24	12	10	30	0.6	<2	3.53	<0.5	28	27	30	5.58
D110104		6.14	0.020	<0.2	1.41	12	<10	90	<0.5	<2	0.93	<0.5	20	40	115	2.67
D110105		6.66	<0.005	<0.2	1.41	10	10	290	<0.5	<2	1.77	<0.5	13	33	48	2.26
D110106		5.36	0.028	<0.2	1.25	8	10	410	<0.5	<2	2.42	<0.5	14	26	229	2.14
D110107		3.88	0.019	<0.2	1.34	23	10	160	<0.5	<2	1.05	<0.5	8	24	181	3.10
D110108		2.76	0.005	<0.2	4.40	16	10	40	0.6	<2	3.77	<0.5	29	28	36	5.94
D110109		4.04	0.067	0.3	1.08	72	10	50	<0.5	<2	0.59	1.2	25	14	1160	3.13
D110110		2.76	0.028	<0.2	1.60	10	10	420	<0.5	<2	2.02	<0.5	15	21	414	4.78
D110111		4.00	0.015	0.4	2.05	7	10	200	<0.5	<2	1.68	<0.5	12	21	54	4.23
D110112		4.74	0.022	<0.2	1.95	7	20	300	<0.5	<2	2.00	<0.5	16	27	258	4.96
D110113		3.20	0.014	<0.2	1.82	18	10	250	<0.5	<2	1.36	<0.5	28	40	69	2.45
D110114		4.06	0.006	<0.2	1.64	11	10	130	<0.5	<2	1.18	<0.5	15	42	41	2.10
D110115		4.72	0.022	0.2	1.72	3	10	140	<0.5	<2	1.55	<0.5	16	43	229	2.05
D110116		4.80	0.057	<0.2	1.74	<2	10	70	<0.5	<2	0.98	<0.5	17	49	670	2.51
D110117		4.12	0.122	0.2	1.62	7	10	190	<0.5	3	2.25	<0.5	17	37	396	2.93
D110118		3.54	0.033	<0.2	1.54	10	10	90	<0.5	<2	1.66	<0.5	19	37	196	2.35
D110119		4.38	0.010	<0.2	1.69	8	10	60	<0.5	<2	1.01	<0.5	21	45	87	2.40
D110120		4.22	0.097	<0.2	1.63	28	<10	60	<0.5	<2	1.57	<0.5	17	36	814	2.47
D110121		6.02	0.007	<0.2	4.03	97	10	30	0.7	<2	3.65	<0.5	31	31	43	6.36
D110122		3.34	<0.005	<0.2	4.71	50	<10	30	<0.5	<2	2.73	<0.5	27	26	27	5.14
D110123		5.06	<0.005	<0.2	1.31	20	<10	30	<0.5	<2	1.15	<0.5	11	39	12	2.89
D110124		4.34	0.012	<0.2	1.05	4	<10	50	<0.5	<2	1.50	<0.5	11	37	46	2.41
D110125		4.42	0.045	<0.2	1.00	33	10	120	<0.5	2	2.20	<0.5	5	13	156	0.80
D110126		4.88	0.015	<0.2	1.03	11	<10	90	<0.5	<2	1.26	<0.5	6	28	213	0.75
D110127		5.08	<0.005	<0.2	3.68	29	10	30	0.5	<2	2.38	<0.5	29	31	29	5.68
D110128		4.44	<0.005	0.2	1.05	5	10	60	<0.5	<2	1.79	<0.5	5	26	51	0.77
D110129		5.50	0.007	<0.2	1.13	4	10	50	<0.5	<2	1.57	<0.5	6	33	78	0.86
D110130		5.30	0.013	<0.2	1.17	12	<10	50	<0.5	<2	1.58	<0.5	8	38	60	0.97
D110131		3.82	0.086	<0.2	1.23	5	<10	40	<0.5	<2	2.00	<0.5	9	39	549	1.14
D110132		3.84	0.056	<0.2	1.19	2	10	50	<0.5	<2	1.95	<0.5	10	37	780	1.14
D110133		2.92	0.032	<0.2	1.36	3	<10	50	<0.5	<2	1.60	<0.5	10	42	687	1.23
D110134		4.26	0.093	<0.2	1.39	4	10	50	<0.5	<2	1.63	<0.5	9	43	720	1.26
D110135		3.96	0.044	0.3	1.29	7	<10	40	<0.5	<2	1.66	<0.5	10	43	1950	1.33
D110136		3.08	0.054	<0.2	1.13	<2	<10	30	<0.5	<2	1.40	<0.5	10	37	770	1.14
D110137		3.74	0.071	0.2	1.27	5	<10	40	<0.5	<2	1.31	<0.5	11	45	796	1.44
D110138		2.14	0.301	0.3	1.14	6	<10	20	<0.5	<2	2.74	<0.5	10	38	3160	1.54
D110139		2.08	1.070	<0.2	3.80	51	10	10	0.5	<2	3.50	<0.5	37	36	52	7.13
D110140		4.36	<0.005	<0.2	1.00	4	<10	40	<0.5	<2	0.72	<0.5	11	34	15	2.42



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Project: taseko

## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
D110101		<10	<1	0.31	10	0.67	196	3	0.05	18	330	5	0.06	2	3	95
D110102		10	<1	0.15	20	1.98	566	<1	0.07	68	1370	3	<0.01	<2	7	97
D110103		10	<1	0.11	10	2.02	675	1	0.45	27	1380	<2	0.05	<2	7	360
D110104		10	<1	0.34	10	0.99	157	2	0.10	18	420	<2	0.05	2	6	43
D110105		<10	<1	0.45	10	0.89	179	2	0.06	16	450	<2	0.03	<2	7	85
D110106		10	1	0.36	10	0.89	266	2	0.04	20	450	4	0.26	<2	5	120
D110107		10	<1	0.35	10	0.48	211	4	0.06	17	1710	3	0.13	<2	6	47
D110108		10	<1	0.14	10	1.97	749	<1	0.54	26	1350	<2	0.20	2	9	330
D110109		<10	<1	0.34	10	0.20	218	7	0.07	18	370	19	1.20	<2	4	30
D110110		10	<1	0.30	10	0.83	349	3	0.05	19	810	7	0.65	2	8	62
D110111		10	<1	0.40	10	1.07	363	2	0.05	16	770	2	0.36	<2	8	53
D110112		10	<1	0.61	10	1.26	336	1	0.06	19	840	<2	0.12	3	12	68
D110113		10	<1	0.47	10	1.17	145	<1	0.13	21	500	<2	0.14	2	7	109
D110114		10	<1	0.34	10	1.23	123	<1	0.11	22	490	<2	0.01	2	7	185
D110115		10	<1	0.24	10	1.31	140	<1	0.09	23	500	<2	0.03	<2	6	160
D110116		10	<1	0.35	<10	1.40	125	1	0.10	22	500	<2	0.08	<2	7	54
D110117		10	<1	0.34	10	1.06	258	1	0.07	20	480	8	0.20	<2	5	84
D110118		10	<1	0.22	10	1.02	195	1	0.07	18	470	<2	0.08	2	5	45
D110119		10	<1	0.17	10	1.27	159	<1	0.11	20	460	<2	0.06	2	7	42
D110120		10	<1	0.12	10	1.26	250	1	0.09	21	500	4	0.19	2	7	41
D110121		10	<1	0.14	10	2.16	810	<1	0.48	23	1490	<2	0.18	<2	13	214
D110122		10	<1	0.18	10	2.44	567	1	0.63	26	1130	<2	0.04	<2	4	241
D110123		10	<1	0.09	<10	1.23	265	2	0.07	17	430	<2	0.09	3	6	38
D110124		10	<1	0.09	10	1.08	209	1	0.06	17	430	<2	0.04	<2	5	67
D110125		<10	<1	0.33	<10	0.68	480	90	0.02	12	460	5	0.70	<2	2	80
D110126		<10	<1	0.19	<10	1.03	213	34	0.04	35	410	4	0.35	<2	4	51
D110127		10	<1	0.22	10	2.40	540	1	0.46	27	1370	<2	0.09	<2	5	154
D110128		<10	<1	0.22	10	1.00	194	19	0.03	16	420	3	0.86	2	5	80
D110129		<10	<1	0.18	<10	1.14	143	46	0.04	19	330	<2	0.85	<2	5	70
D110130		10	<1	0.15	10	1.20	176	87	0.05	20	420	<2	0.49	<2	5	40
D110131		10	<1	0.15	10	1.18	192	28	0.04	18	450	5	0.67	<2	6	45
D110132		10	<1	0.20	10	0.99	169	27	0.05	18	440	2	0.61	<2	6	43
D110133		10	<1	0.18	10	1.25	182	45	0.05	18	480	2	0.23	2	7	28
D110134		10	<1	0.19	10	1.29	186	39	0.06	20	480	2	0.24	<2	7	29
D110135		10	<1	0.14	<10	1.28	170	10	0.05	20	450	2	0.74	<2	7	42
D110136		10	<1	0.15	10	1.10	165	9	0.03	21	440	3	0.34	<2	5	21
D110137		10	<1	0.18	<10	1.43	171	13	0.06	23	370	5	0.32	<2	8	27
D110138		10	<1	0.14	10	1.24	163	172	0.08	23	260	5	1.81	<2	8	64
D110139		10	<1	0.05	10	3.40	944	2	0.32	29	1450	4	0.21	2	11	115
D110140		10	<1	0.27	<10	0.92	103	2	0.06	14	330	<2	0.01	<2	5	20



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## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
D110101		<20	0.01	<10	<10	37	<10	32
D110102		<20	0.01	<10	<10	73	<10	60
D110103		<20	0.35	<10	10	121	<10	82
D110104		<20	0.06	<10	<10	75	<10	22
D110105		<20	0.05	<10	<10	57	<10	19
D110106		<20	0.02	<10	<10	45	<10	27
D110107		<20	0.01	<10	<10	96	<10	26
D110108		<20	0.41	<10	<10	141	<10	79
D110109		<20	0.01	<10	<10	49	<10	77
D110110		<20	0.02	<10	<10	103	<10	52
D110111		<20	0.02	<10	<10	84	<10	51
D110112		<20	0.07	<10	<10	129	<10	44
D110113		<20	0.09	<10	<10	76	<10	19
D110114		<20	0.07	<10	<10	68	<10	17
D110115		<20	0.04	<10	<10	68	<10	19
D110116		<20	0.07	<10	<10	81	<10	19
D110117		<20	0.02	<10	<10	64	<10	34
D110118		<20	0.02	<10	<10	65	<10	21
D110119		<20	0.04	<10	<10	76	<10	18
D110120		<20	0.06	<10	10	78	<10	27
D110121		<20	0.47	<10	<10	190	<10	85
D110122		<20	0.32	<10	<10	108	<10	68
D110123		<20	0.06	<10	<10	71	<10	25
D110124		<20	0.02	<10	<10	61	<10	21
D110125		<20	<0.01	<10	<10	23	<10	28
D110126		<20	0.01	<10	10	53	<10	23
D110127		<20	0.42	<10	<10	134	<10	80
D110128		<20	0.03	<10	10	43	<10	25
D110129		<20	0.04	<10	<10	55	<10	22
D110130		<20	0.02	<10	<10	65	<10	24
D110131		<20	0.08	<10	10	65	<10	30
D110132		<20	0.06	<10	10	55	<10	29
D110133		<20	0.11	<10	10	65	<10	30
D110134		<20	0.11	<10	20	67	<10	31
D110135		<20	0.16	<10	10	67	<10	34
D110136		<20	0.03	<10	20	54	<10	30
D110137		<20	0.12	<10	10	78	<10	32
D110138		<20	0.16	<10	30	80	<10	30
D110139		<20	0.79	<10	<10	177	<10	82
D110140		<20	0.13	<10	<10	61	<10	12



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## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
D110141		5.00	0.006	<0.2	1.40	3	<10	80	<0.5	<2	0.89	<0.5	16	45	24	3.42
D110142		4.92	0.005	<0.2	1.33	5	<10	70	<0.5	<2	0.85	<0.5	14	42	23	3.23
D110143		4.28	<0.005	<0.2	1.49	8	<10	80	<0.5	<2	0.70	<0.5	14	50	15	2.99
D110144		3.62	0.020	<0.2	1.13	9	<10	30	<0.5	<2	0.88	<0.5	14	41	198	3.18
D110145		6.64	0.021	<0.2	2.23	19	<10	20	<0.5	<2	2.03	<0.5	20	36	153	4.26
D110146		5.40	<0.005	<0.2	3.74	57	40	10	0.6	<2	3.18	<0.5	28	22	25	5.57
D110147		3.82	<0.005	<0.2	3.51	22	20	10	0.5	<2	2.73	<0.5	30	24	25	6.05
D110148		4.70	0.036	<0.2	1.06	8	<10	20	<0.5	<2	1.19	<0.5	16	39	691	3.35
D110149		4.12	0.030	<0.2	1.25	12	<10	30	<0.5	<2	1.14	<0.5	18	42	575	3.82
D110150		5.14	0.072	<0.2	1.11	<2	<10	30	<0.5	<2	1.11	<0.5	16	37	492	3.66
D110151		6.08	0.041	<0.2	1.69	7	<10	70	<0.5	<2	0.97	<0.5	19	49	343	3.55
D110152		6.50	0.013	<0.2	1.52	3	<10	60	<0.5	<2	1.36	<0.5	22	48	176	3.16
D110153		4.90	0.020	<0.2	1.65	<2	<10	50	<0.5	<2	1.06	<0.5	24	48	266	3.62
D110154		4.74	0.084	<0.2	1.08	2	<10	20	<0.5	<2	0.89	<0.5	17	39	679	3.43
D110155		5.32	0.045	<0.2	1.09	4	<10	40	<0.5	<2	0.74	<0.5	17	40	646	3.03
D110156		3.82	<0.005	0.2	0.59	4	<10	40	<0.5	<2	0.98	<0.5	10	23	513	1.76
D110157		4.88	<0.005	0.3	0.65	11	<10	50	<0.5	<2	1.19	<0.5	11	24	302	1.95
D110158		3.70	0.103	0.4	1.11	5	<10	30	<0.5	<2	0.86	<0.5	17	35	1900	2.55
D110159		3.84	0.021	<0.2	1.07	7	<10	40	<0.5	<2	0.92	<0.5	14	36	435	2.80
D110160		3.18	0.006	<0.2	1.16	10	<10	20	<0.5	<2	1.23	<0.5	13	39	59	2.59
D110161		4.70	0.012	0.2	0.43	7	<10	100	<0.5	<2	3.81	<0.5	4	4	397	0.68
D110162		4.68	0.040	<0.2	0.35	3	<10	40	<0.5	<2	2.65	<0.5	4	3	10	2.84
D110163		4.22	0.076	<0.2	0.31	6	<10	30	<0.5	3	3.25	<0.5	9	2	20	3.00
D110164		4.92	0.033	<0.2	0.36	11	<10	20	<0.5	2	1.28	<0.5	12	2	9	5.17
D110165		4.12	0.024	<0.2	0.30	<2	<10	50	<0.5	<2	1.52	<0.5	5	2	10	1.74
D110166		4.98	0.147	<0.2	0.32	5	<10	50	<0.5	5	0.87	<0.5	4	3	41	2.58
D110167		4.56	0.030	<0.2	0.30	6	<10	30	<0.5	<2	2.48	<0.5	4	2	12	2.00
D110168		3.58	0.015	<0.2	0.22	5	<10	20	<0.5	<2	7.64	<0.5	4	2	4	4.75
D110169		4.68	0.011	<0.2	0.27	6	<10	20	<0.5	<2	0.32	<0.5	7	3	7	10.95
D110170		5.42	0.045	<0.2	1.40	9	<10	90	<0.5	<2	1.17	<0.5	17	39	224	3.21
D110171		4.26	0.063	0.3	1.28	2	<10	160	<0.5	<2	1.23	<0.5	22	41	328	2.24
D110172		5.64	0.021	<0.2	0.31	5	<10	30	<0.5	2	0.20	<0.5	18	6	24	7.96
D110173		4.80	0.022	<0.2	0.28	4	<10	30	<0.5	<2	0.40	<0.5	13	4	13	7.42
D110174		4.72	0.020	<0.2	0.36	4	<10	70	<0.5	<2	1.49	<0.5	5	3	17	2.75
D110175		5.34	0.072	0.2	0.24	2	<10	30	<0.5	<2	2.86	<0.5	5	3	15	3.06
D110176		3.26	0.026	0.2	0.35	<2	<10	70	<0.5	<2	5.85	<0.5	5	3	19	2.37
D110177		5.70	0.051	<0.2	0.73	9	<10	100	<0.5	2	4.18	<0.5	9	3	505	2.66
D110178		3.72	0.021	<0.2	0.48	3	<10	130	<0.5	2	1.23	<0.5	3	5	22	1.49
D110179		4.90	0.031	0.2	0.37	4	<10	100	<0.5	2	2.16	<0.5	4	5	36	2.10
D110180		5.10	0.018	<0.2	0.30	2	<10	70	<0.5	<2	3.40	<0.5	8	2	17	2.89





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## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
D110141		10	<1	0.44	<10	1.28	149	2	0.08	18	470	2	0.02	<2	8	31
D110142		10	<1	0.41	<10	1.22	142	2	0.08	18	440	2	0.02	<2	7	29
D110143		10	<1	0.58	<10	1.33	144	2	0.09	18	460	<2	0.02	<2	8	29
D110144		10	<1	0.14	10	1.17	137	4	0.07	15	390	2	0.06	<2	8	26
D110145		10	<1	0.11	10	1.69	413	4	0.25	18	660	<2	0.08	<2	8	87
D110146		10	1	0.11	10	2.69	794	1	0.20	22	1080	<2	0.13	<2	8	65
D110147		10	<1	0.10	10	2.63	841	<1	0.09	20	1230	<2	0.10	<2	7	82
D110148		10	<1	0.11	<10	1.13	154	20	0.06	15	350	<2	0.11	<2	7	31
D110149		10	<1	0.16	10	1.26	161	1	0.07	16	440	<2	0.08	<2	7	32
D110150		10	<1	0.11	10	1.13	145	5	0.05	13	370	<2	0.07	<2	5	26
D110151		<10	<1	0.38	<10	1.56	171	2	0.07	20	500	<2	0.21	<2	8	40
D110152		10	<1	0.28	10	1.46	143	2	0.06	19	490	<2	0.37	<2	7	51
D110153		10	<1	0.28	10	1.52	114	1	0.07	22	480	<2	0.84	<2	7	46
D110154		10	<1	0.15	<10	1.18	147	3	0.06	13	410	<2	0.08	<2	7	28
D110155		10	<1	0.26	<10	1.12	145	3	0.07	14	370	2	0.08	<2	7	40
D110156		<10	<1	0.13	10	0.54	136	13	0.06	8	280	<2	0.07	<2	4	25
D110157		<10	<1	0.13	10	0.64	176	23	0.06	10	310	2	0.05	4	4	30
D110158		10	<1	0.17	10	0.98	161	80	0.07	14	340	2	0.26	<2	5	37
D110159		10	<1	0.16	<10	0.99	165	8	0.07	12	320	2	0.07	<2	5	29
D110160		10	<1	0.13	<10	1.09	175	19	0.06	12	380	<2	0.06	<2	5	38
D110161		<10	<1	0.15	<10	0.46	344	44	0.05	6	830	<2	2.27	<2	1	201
D110162		<10	<1	0.14	<10	0.02	8	119	0.03	2	560	<2	5.32	<2	<1	154
D110163		<10	<1	0.16	<10	0.03	11	253	0.02	2	300	<2	6.07	<2	<1	227
D110164		<10	<1	0.16	<10	0.02	10	64	0.02	2	410	<2	6.55	<2	1	118
D110165		<10	<1	0.16	<10	0.04	15	37	0.02	1	450	<2	3.04	<2	1	117
D110166		<10	<1	0.19	<10	0.03	18	46	0.02	1	420	<2	3.34	<2	<1	45
D110167		<10	<1	0.14	<10	0.02	6	20	0.02	2	450	<2	4.27	<2	1	169
D110168		<10	<1	0.13	10	0.03	7	84	0.02	3	330	<2	>10.0	<2	<1	334
D110169		<10	<1	0.14	<10	0.01	6	891	0.02	1	420	<2	>10.0	<2	<1	18
D110170		10	<1	0.46	10	1.12	174	8	0.06	16	450	<2	0.46	2	7	41
D110171		10	<1	0.37	10	1.05	242	7	0.05	28	410	39	0.11	3	6	53
D110172		<10	<1	0.16	<10	0.01	16	49	0.02	7	500	8	8.58	2	<1	12
D110173		<10	<1	0.15	<10	0.01	9	31	0.01	4	880	<2	9.58	<2	1	20
D110174		<10	<1	0.18	<10	0.01	10	23	0.01	3	850	<2	4.68	2	<1	116
D110175		<10	<1	0.15	<10	0.03	13	113	0.01	4	630	<2	6.54	<2	<1	179
D110176		<10	<1	0.21	<10	0.05	20	66	0.02	6	430	<2	8.39	<2	1	308
D110177		<10	<1	0.34	10	0.06	78	56	0.02	6	>10000	<2	4.21	2	1	134
D110178		<10	<1	0.27	<10	0.03	27	44	0.01	3	1600	<2	2.48	<2	<1	61
D110179		<10	<1	0.20	<10	0.03	22	77	0.01	3	2850	<2	4.01	2	<1	119
D110180		<10	<1	0.19	<10	0.03	17	77	0.01	5	900	<2	6.70	<2	<1	194



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## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
D110141		<20	0.18	<10	<10	87	<10	19
D110142		<20	0.17	<10	<10	81	<10	18
D110143		<20	0.20	<10	<10	89	<10	19
D110144		<20	0.17	<10	<10	77	<10	22
D110145		<20	0.32	<10	<10	98	<10	41
D110146		<20	0.53	<10	<10	120	<10	64
D110147		<20	0.52	<10	<10	118	<10	69
D110148		<20	0.10	<10	<10	69	<10	25
D110149		<20	0.09	<10	<10	73	<10	23
D110150		<20	0.05	<10	<10	64	<10	22
D110151		<20	0.12	<10	<10	86	<10	25
D110152		<20	0.07	<10	<10	77	<10	17
D110153		<20	0.06	<10	<10	78	<10	17
D110154		<20	0.13	<10	<10	72	<10	25
D110155		<20	0.09	<10	<10	68	<10	31
D110156		<20	0.02	<10	<10	38	<10	23
D110157		<20	0.01	<10	<10	38	<10	26
D110158		<20	0.06	<10	<10	50	<10	26
D110159		<20	0.06	<10	<10	59	<10	28
D110160		<20	0.04	<10	<10	56	<10	25
D110161		<20	<0.01	<10	<10	9	<10	11
D110162		<20	<0.01	<10	<10	3	<10	2
D110163		<20	<0.01	<10	<10	3	<10	3
D110164		<20	<0.01	<10	<10	3	<10	<2
D110165		<20	<0.01	<10	<10	3	<10	2
D110166		<20	<0.01	<10	<10	2	<10	2
D110167		<20	<0.01	<10	<10	3	<10	<2
D110168		<20	<0.01	<10	<10	2	<10	<2
D110169		<20	<0.01	<10	<10	2	<10	2
D110170		<20	0.09	<10	<10	69	<10	18
D110171		<20	0.09	<10	<10	60	<10	37
D110172		<20	<0.01	<10	<10	3	<10	7
D110173		<20	<0.01	<10	<10	3	<10	<2
D110174		<20	<0.01	<10	<10	3	<10	2
D110175		<20	<0.01	<10	<10	2	<10	2
D110176		<20	<0.01	<10	<10	3	<10	3
D110177		<20	<0.01	<10	<10	5	<10	4
D110178		<20	<0.01	<10	<10	3	<10	2
D110179		<20	<0.01	<10	<10	2	<10	3
D110180		<20	<0.01	<10	<10	1	<10	2



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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ce %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
D110181		4.90	0.129	0.3	0.37	5	<10	130	<0.5	3	2.65	<0.5	3	3	1140	1.55
D110182		4.56	0.036	0.3	0.25	<2	<10	50	<0.5	2	4.02	<0.5	13	2	35	3.41
D110183		4.04	0.050	<0.2	0.38	4	<10	100	<0.5	<2	2.05	<0.5	7	3	393	2.24
D110184		5.26	0.122	0.3	0.30	3	<10	110	<0.5	2	2.22	<0.5	3	5	577	1.37
D110185		4.36	0.075	0.4	0.27	4	<10	130	<0.5	2	2.16	<0.5	3	5	1250	1.24
D110186		3.54	0.016	<0.2	0.23	<2	<10	110	<0.5	<2	1.70	<0.5	2	7	417	0.60
D110187		4.82	0.096	0.4	0.25	5	<10	80	<0.5	2	1.46	<0.5	6	5	34	2.76
D110188		4.42	0.033	<0.2	0.34	5	<10	80	<0.5	2	1.57	<0.5	7	6	115	2.66
D110189		5.60	0.042	0.2	0.26	13	<10	40	<0.5	3	1.37	<0.5	16	2	244	5.35
D110190		4.04	0.013	0.3	0.20	4	<10	50	<0.5	<2	1.43	<0.5	14	2	31	4.76
D110191		4.52	0.027	<0.2	0.23	6	<10	30	<0.5	4	2.20	<0.5	20	2	20	9.26
D110192		5.16	0.085	0.4	0.35	19	<10	40	<0.5	<2	1.52	<0.5	26	3	1220	6.37
D110193		4.58	0.064	0.5	0.48	12	<10	60	<0.5	<2	1.66	<0.5	19	3	711	4.49
D110194		3.58	0.085	<0.2	0.24	12	<10	30	<0.5	7	2.09	<0.5	81	1	31	9.16
D110195		4.70	0.058	<0.2	0.25	10	<10	50	<0.5	2	1.98	<0.5	29	2	31	5.87
D110196		3.32	0.025	<0.2	0.18	2	<10	60	<0.5	<2	0.61	<0.5	4	10	129	0.84
D110197		4.96	0.037	<0.2	0.22	21	<10	50	<0.5	<2	0.16	<0.5	29	6	9	5.37
D110198		5.08	0.036	<0.2	0.42	4	<10	70	<0.5	4	1.39	<0.5	8	6	346	4.66
D110199		5.54	0.023	<0.2	0.58	5	<10	90	<0.5	2	1.45	<0.5	5	6	132	3.75
D110200		6.48	0.012	<0.2	0.73	<2	<10	90	<0.5	4	2.12	<0.5	4	9	706	2.02



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Project: taseko

## CERTIFICATE OF ANALYSIS VA07148603

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1	ppm 1
D110181		<10	<1	0.22	10	0.02	127	77	0.01	1	4650	<2	3.31	2	1	181
D110182		<10	<1	0.16	<10	0.02	27	206	0.01	3	1090	<2	7.86	<2	<1	213
D110183		<10	<1	0.24	<10	0.06	60	135	0.01	4	980	<2	4.34	<2	1	110
D110184		<10	<1	0.19	<10	0.03	43	290	0.01	2	920	<2	3.50	<2	1	123
D110185		<10	<1	0.19	10	0.04	176	190	0.01	3	1050	<2	2.81	<2	<1	115
D110186		<10	<1	0.14	10	0.06	277	133	0.01	1	1330	<2	1.15	2	<1	79
D110187		<10	<1	0.18	10	0.02	30	165	0.01	2	860	<2	4.55	<2	<1	63
D110188		<10	<1	0.18	<10	0.11	135	288	0.01	8	480	<2	4.06	<2	1	54
D110189		<10	<1	0.17	<10	0.05	63	66	0.01	11	370	<2	7.55	2	1	50
D110190		<10	<1	0.14	<10	0.05	45	45	0.01	8	430	<2	7.05	<2	1	39
D110191		<10	<1	0.16	<10	0.02	30	28	0.01	6	1110	<2	>10.0	4	1	76
D110192		<10	<1	0.20	<10	0.09	126	27	0.01	17	420	4	8.60	<2	1	72
D110193		<10	<1	0.21	<10	0.17	222	15	0.02	17	430	2	5.93	2	1	54
D110194		<10	<1	0.17	<10	0.01	39	941	0.01	12	600	3	>10.0	<2	1	74
D110195		<10	<1	0.17	<10	0.02	14	324	0.01	9	590	3	9.04	<2	1	76
D110196		<10	<1	0.12	10	0.04	109	131	0.01	3	310	<2	0.94	<2	<1	14
D110197		<10	<1	0.14	10	0.02	14	604	0.01	10	410	<2	6.61	<2	<1	10
D110198		<10	<1	0.22	<10	0.15	134	45	0.01	12	460	<2	6.22	<2	1	49
D110199		<10	<1	0.23	<10	0.25	225	89	0.01	10	420	<2	4.69	<2	2	70
D110200		<10	<1	0.25	<10	0.40	344	195	0.01	9	450	<2	2.69	3	2	131



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Project: taseko

**CERTIFICATE OF ANALYSIS VA07148603**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
D110181		30	<0.01	<10	<10	2	<10	4
D110182		<20	<0.01	<10	<10	2	<10	2
D110183		<20	<0.01	<10	<10	4	<10	3
D110184		<20	<0.01	<10	<10	2	<10	3
D110185		<20	<0.01	<10	<10	2	<10	4
D110186		<20	<0.01	<10	<10	3	<10	4
D110187		<20	<0.01	<10	<10	1	<10	3
D110188		<20	<0.01	<10	<10	8	<10	8
D110189		<20	<0.01	<10	<10	3	<10	4
D110190		<20	<0.01	<10	<10	2	<10	2
D110191		<20	<0.01	<10	<10	2	<10	3
D110192		<20	<0.01	<10	<10	5	<10	15
D110193		<20	<0.01	<10	<10	8	<10	20
D110194		<20	<0.01	<10	<10	3	<10	3
D110195		<20	<0.01	<10	<10	3	<10	4
D110196		<20	<0.01	<10	<10	2	<10	11
D110197		<20	<0.01	<10	<10	2	<10	4
D110198		<20	<0.01	<10	<10	5	<10	6
D110199		<20	<0.01	<10	10	6	<10	9
D110200		<20	<0.01	<10	<10	6	<10	16



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## CERTIFICATE VA07149127

Project: TASEKO

P.O. No.:

This report is for 141 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 11-DEC-2007.

The following have access to data associated with this certificate:

BILL OSBOURNE

STEVE SOBY

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Au-AA23	Au 30g FA-AA finish	AAS

To: GREAT QUEST METALS  
ATTN: BILL OSBOURNE  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Be ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
D110201		6.10	0.016	<0.2	0.65	6	10	30	<0.5	<2	2.36	<0.5	11	7	73	3.48
D110202		5.52	<0.005	<0.2	0.86	2	10	90	<0.5	<2	3.04	<0.5	6	10	35	1.17
D110203		5.30	0.006	<0.2	1.07	4	10	70	<0.5	<2	3.00	<0.5	8	17	65	1.13
D110204		5.58	0.008	<0.2	0.84	3	10	120	<0.5	<2	3.59	<0.5	6	14	48	1.09
D110205		5.14	<0.005	<0.2	0.87	<2	10	100	<0.5	<2	3.22	<0.5	4	17	22	0.80
D110206		5.16	<0.005	<0.2	0.72	7	<10	180	<0.5	<2	3.61	<0.5	3	14	35	0.55
D110207		5.42	<0.005	<0.2	0.86	7	<10	130	<0.5	<2	3.15	<0.5	5	19	41	0.54
D110208		6.12	<0.005	<0.2	0.93	<2	10	150	<0.5	<2	2.89	<0.5	4	22	65	0.52
D110209		5.82	<0.005	<0.2	0.85	3	10	130	<0.5	<2	2.89	<0.5	3	19	54	0.44
D110210		5.26	<0.005	<0.2	0.77	2	<10	140	<0.5	<2	3.32	<0.5	6	17	48	0.44
D110211		5.80	<0.005	<0.2	0.89	6	10	80	<0.5	<2	3.46	<0.5	6	13	15	0.85
D110212		5.58	<0.005	<0.2	1.19	9	10	280	<0.5	<2	2.73	<0.5	6	25	11	0.72
D110213		5.30	<0.005	<0.2	1.12	5	10	160	<0.5	<2	2.61	<0.5	9	26	32	0.77
D110214		4.90	0.005	<0.2	1.28	40	10	180	<0.5	<2	3.41	<0.5	10	19	42	1.49
D110215		4.02	<0.005	<0.2	1.59	89	10	70	<0.5	<2	2.22	<0.5	11	23	40	1.99
D110216		5.58	0.018	<0.2	1.63	<2	10	60	<0.5	<2	1.32	<0.5	20	47	119	3.41
D110217		6.40	0.017	<0.2	1.70	4	10	130	<0.5	<2	1.13	<0.5	20	53	155	3.44
D110218		6.02	0.014	<0.2	1.41	7	10	120	<0.5	<2	1.73	<0.5	15	43	33	3.03
D110219		2.26	0.054	<0.2	0.94	8	10	60	<0.5	<2	0.28	<0.5	6	25	180	0.83
D110220		3.26	<0.005	<0.2	0.99	10	10	70	<0.5	<2	1.42	<0.5	5	23	30	1.08
D110221		4.58	<0.005	<0.2	0.61	12	<10	60	<0.5	<2	1.04	<0.5	4	8	18	1.64
D110222		3.54	<0.005	<0.2	0.43	6	10	120	<0.5	<2	1.39	<0.5	4	4	11	1.53
D110223		2.02	0.104	0.3	0.83	21	10	20	<0.5	<2	0.64	<0.5	11	24	944	1.71
D110224		3.36	0.227	0.5	1.03	21	10	70	<0.5	<2	0.84	<0.5	17	33	1815	1.61
D110225		4.40	0.143	0.2	1.17	8	10	50	<0.5	<2	0.75	<0.5	13	37	1210	1.89
D110226		4.50	0.321	0.4	1.03	14	10	20	<0.5	<2	0.85	<0.5	17	32	1355	1.63
D110227		4.30	0.676	0.8	1.19	25	10	70	<0.5	<2	0.79	<0.5	15	34	3880	2.21
D110228		3.70	0.368	0.3	0.58	21	10	80	<0.5	<2	0.16	<0.5	9	21	1395	1.24
D110229		5.00	0.441	0.4	1.17	11	10	50	<0.5	<2	0.82	<0.5	16	37	2210	2.55
D110230		3.80	0.210	0.3	1.09	12	10	60	<0.5	<2	0.95	<0.5	16	37	1585	2.86
D110231		4.56	0.028	<0.2	0.94	7	10	40	<0.5	<2	0.44	<0.5	12	35	364	2.73
D110232		4.62	0.015	<0.2	0.82	12	10	30	<0.5	<2	0.40	<0.5	13	31	158	2.71
D110233		3.60	0.043	<0.2	0.81	8	10	40	0.5	<2	0.39	<0.5	13	34	344	3.01
D110234		3.90	0.116	<0.2	0.94	10	10	50	<0.5	<2	0.49	<0.5	16	35	743	3.02
D110235		4.46	0.035	<0.2	1.13	2	10	40	<0.5	<2	0.98	<0.5	14	40	352	2.90
D110236		4.94	0.031	0.2	1.07	<2	10	60	<0.5	<2	1.48	<0.5	13	34	181	2.15
D110237		4.86	0.099	0.2	0.72	3	<10	50	<0.5	<2	0.66	<0.5	10	25	193	1.91
D110238		4.32	0.047	0.6	0.69	8	<10	80	<0.5	<2	0.39	<0.5	12	26	432	1.87
D110239		3.76	0.108	0.2	0.81	22	10	50	<0.5	<2	0.66	<0.5	16	27	442	2.37
D110240		5.12	0.040	0.3	1.06	8	10	230	<0.5	<2	1.41	<0.5	7	28	474	0.97



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
	Analyte Units LOK	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
D110201		<10	<1	0.28	<10	0.40	322	517	0.01	10	420	2	4.48	<2	2	105
D110202		<10	<1	0.26	10	0.57	336	208	0.02	9	360	2	1.96	<2	2	113
D110203		<10	<1	0.25	10	0.79	326	348	0.03	16	530	4	1.64	<2	2	101
D110204		<10	1	0.24	10	0.59	327	625	0.02	12	420	2	2.29	<2	2	177
D110205		<10	<1	0.29	10	0.63	366	303	0.02	10	550	2	1.67	<2	2	163
D110206		<10	<1	0.26	10	0.50	275	263	0.02	8	400	8	1.62	3	2	195
D110207		<10	<1	0.28	20	0.66	193	203	0.03	9	390	3	1.73	<2	2	141
D110208		<10	1	0.31	10	0.72	161	298	0.03	8	410	4	1.80	<2	2	173
D110209		<10	<1	0.30	10	0.66	144	389	0.03	8	420	3	1.80	<2	2	146
D110210		<10	<1	0.31	10	0.54	201	246	0.02	8	440	6	1.76	<2	2	145
D110211		<10	<1	0.33	20	0.62	281	670	0.02	13	420	3	1.97	<2	2	215
D110212		<10	<1	0.38	10	0.98	208	158	0.03	24	510	4	1.03	<2	4	135
D110213		<10	1	0.31	10	0.97	156	105	0.03	22	410	3	1.39	<2	3	127
D110214		<10	<1	0.29	10	0.93	312	717	0.05	19	460	6	1.04	<2	4	104
D110215		<10	1	0.30	10	1.17	370	63	0.06	26	640	3	0.31	4	5	78
D110216		10	<1	0.41	10	1.43	141	4	0.06	22	510	<2	0.04	5	7	32
D110217		10	<1	0.65	10	1.62	150	2	0.08	21	510	<2	0.09	<2	9	61
D110218		<10	1	0.48	10	1.18	241	2	0.07	21	480	<2	0.03	<2	8	74
D110219		<10	<1	0.25	10	0.82	119	56	0.04	32	490	13	0.20	<2	2	15
D110220		<10	1	0.26	10	0.77	289	124	0.05	20	520	16	0.14	<2	3	29
D110221		<10	<1	0.13	20	0.42	388	1	0.06	4	520	5	0.01	<2	2	33
D110222		<10	<1	0.14	10	0.42	376	1	0.03	5	400	6	0.01	2	2	30
D110223		<10	1	0.21	10	0.38	228	6	0.07	14	420	4	0.18	4	3	35
D110224		<10	<1	0.14	10	0.82	209	30	0.07	27	400	3	0.34	2	3	32
D110225		10	1	0.12	10	1.06	242	28	0.07	28	440	4	0.23	<2	6	160
D110226		<10	1	0.11	10	0.86	208	40	0.06	32	400	2	0.26	<2	4	54
D110227		<10	1	0.15	10	0.96	230	18	0.08	32	430	5	0.59	3	5	72
D110228		<10	1	0.11	<10	0.35	113	2	0.06	14	240	3	0.26	4	3	23
D110229		<10	<1	0.13	<10	1.05	158	20	0.07	30	380	5	0.36	2	6	970
D110230		10	<1	0.13	10	0.93	178	23	0.08	24	390	7	0.20	2	5	39
D110231		<10	<1	0.15	10	0.68	203	7	0.08	15	400	5	0.05	4	5	31
D110232		<10	1	0.14	10	0.52	248	3	0.08	13	390	7	0.05	<2	4	28
D110233		<10	1	0.17	20	0.42	302	2	0.08	13	400	6	0.06	2	5	33
D110234		<10	<1	0.18	10	0.70	212	11	0.07	13	370	5	0.11	<2	6	36
D110235		<10	1	0.17	10	1.05	184	3	0.07	15	380	5	0.07	2	5	115
D110236		<10	<1	0.14	10	0.96	182	4	0.05	16	350	5	0.15	<2	5	141
D110237		<10	<1	0.13	10	0.57	153	4	0.07	14	280	9	0.15	<2	3	30
D110238		<10	<1	0.13	10	0.56	167	5	0.07	13	320	6	0.21	4	4	21
D110239		<10	<1	0.14	10	0.76	173	2	0.08	18	330	2	0.24	<2	4	28
D110240		<10	<1	0.48	10	0.91	135	1	0.06	22	390	3	0.20	<2	6	79





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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.01
D110201		<20	<0.01	<10	<10	6	<10	13	
D110202		<20	<0.01	<10	<10	7	<10	25	
D110203		<20	<0.01	<10	<10	16	<10	36	
D110204		<20	<0.01	<10	<10	13	<10	32	
D110205		<20	<0.01	<10	<10	12	<10	25	
D110206		<20	<0.01	<10	<10	9	<10	29	
D110207		<20	<0.01	<10	<10	12	<10	22	
D110208		<20	<0.01	<10	<10	13	<10	22	
D110209		<20	<0.01	<10	<10	12	<10	20	
D110210		<20	<0.01	<10	<10	11	<10	29	
D110211		<20	<0.01	<10	<10	14	<10	28	
D110212		<20	0.01	<10	<10	40	<10	26	
D110213		<20	<0.01	<10	<10	37	<10	20	
D110214		<20	0.01	<10	10	42	<10	32	
D110215		<20	0.01	<10	10	58	<10	33	
D110216		<20	0.08	<10	<10	77	<10	19	
D110217		<20	0.16	<10	<10	90	<10	20	
D110218		<20	0.09	<10	<10	76	<10	28	
D110219		<20	0.01	<10	10	35	<10	44	
D110220		<20	0.01	<10	<10	34	<10	31	
D110221		<20	0.02	<10	<10	26	<10	34	
D110222		<20	0.01	<10	<10	22	<10	34	
D110223		<20	<0.01	<10	<10	33	<10	36	
D110224		<20	0.01	<10	10	54	<10	42	
D110225		<20	0.03	<10	<10	66	<10	40	
D110226		<20	0.01	<10	<10	45	<10	37	
D110227		<20	0.03	<10	<10	47	<10	53	
D110228		<20	0.01	<10	<10	33	<10	27	
D110229		20	0.10	<10	<10	94	<10	33	
D110230		<20	0.03	<10	<10	67	<10	39	
D110231		<20	0.03	<10	<10	55	<10	33	
D110232		<20	0.02	<10	<10	48	<10	38	
D110233		<20	0.01	<10	<10	48	<10	36	
D110234		<20	0.04	<10	<10	58	<10	27	
D110235		<20	0.05	<10	<10	58	<10	35	
D110236		<20	0.02	10	<10	47	<10	25	
D110237		<20	0.02	<10	<10	41	<10	24	
D110238		<20	0.02	<10	<10	44	<10	27	
D110239		<20	0.02	<10	<10	49	<10	26	
D110240		<20	0.08	<10	<10	50	<10	18	



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	
D110241		4.38	0.007	<0.2	1.10	8	<10	250	<0.5	<2	2.04	<0.5	7	29	79	0.81
D110242		2.60	0.008	0.3	1.09	7	10	180	<0.5	<2	2.00	<0.5	5	23	101	0.86
D110243		4.44	<0.005	<0.2	0.93	6	10	540	<0.5	<2	1.50	<0.5	6	20	88	0.74
D110244		4.08	0.173	1.1	0.28	147	<10	60	<0.5	2	0.32	0.6	120	7	1550	6.38
D110245		3.02	0.020	<0.2	0.56	6	10	60	<0.5	<2	0.34	<0.5	15	5	114	2.14
D110246		3.70	0.018	<0.2	2.00	<2	10	40	<0.5	2	0.22	<0.5	19	7	385	3.44
D110247		3.32	0.081	<0.2	2.05	<2	10	110	<0.5	<2	1.94	<0.5	14	16	438	2.94
D110248		3.68	0.012	<0.2	2.95	3	10	50	<0.5	<2	1.85	<0.5	16	15	201	3.00
D110249		3.68	0.017	<0.2	1.48	3	10	50	<0.5	2	0.81	<0.5	20	5	229	3.56
D110250		3.10	0.047	0.2	0.53	8	10	60	<0.5	<2	0.92	<0.5	26	2	619	4.11
D110251		3.32	0.079	0.2	0.55	42	<10	50	<0.5	<2	0.10	<0.5	36	1	655	5.78
D110252		4.52	0.090	0.3	0.45	36	<10	60	<0.5	<2	0.15	<0.5	103	2	1175	8.32
D110253		2.28	0.066	0.4	0.06	12	<10	50	<0.5	4	0.03	<0.5	9	9	1245	1.46
D110254		4.14	0.054	0.3	0.83	45	10	90	<0.5	<2	0.40	<0.5	37	6	914	10.40
D110255		3.38	0.101	0.6	0.34	37	10	50	<0.5	2	0.36	<0.5	40	3	883	3.91
D110256		4.08	0.073	0.2	0.06	7	<10	50	<0.5	2	0.04	<0.5	6	15	915	1.12
D110257		2.90	0.093	0.2	0.14	17	<10	120	<0.5	<2	0.08	<0.5	6	9	1120	0.91
D110258		7.58	<0.005	<0.2	0.03	5	<10	270	<0.5	2	0.02	<0.5	2	17	194	0.39
D110259		4.30	0.011	0.3	0.04	19	<10	30	<0.5	2	0.03	<0.5	2	17	244	0.45
D110260		4.38	0.014	<0.2	0.07	22	<10	230	<0.5	2	0.02	<0.5	2	16	322	0.74
D110261		3.80	0.038	0.2	0.07	12	<10	220	<0.5	<2	0.03	<0.5	2	15	553	0.57
D110262		5.48	0.040	<0.2	0.06	15	<10	490	<0.5	<2	0.04	<0.5	2	15	560	0.68
D110263		5.08	0.023	0.2	0.05	60	<10	350	<0.5	<2	0.05	<0.5	4	15	403	1.07
D110264		3.82	0.038	0.5	0.07	62	<10	140	<0.5	2	0.13	<0.5	8	15	885	2.40
D110265		4.72	0.152	0.7	0.06	50	<10	170	<0.5	2	-0.16	0.6	20	18	2290	4.48
D110266		4.88	1.805	7.0	0.17	84	<10	20	<0.5	<2	0.08	0.9	79	26	>10000	9.55
D110267		3.80	0.662	2.0	0.18	116	<10	10	<0.5	2	0.10	1.1	54	24	2800	6.67
D110268		2.86	0.418	1.4	0.19	122	<10	50	<0.5	<2	0.09	<0.5	37	23	3790	5.89
D110269		4.82	0.029	<0.2	1.18	8	10	90	<0.5	<2	1.18	<0.5	17	43	615	3.20
D110270		4.48	0.052	<0.2	1.10	9	<10	50	<0.5	<2	1.46	<0.5	16	41	427	2.90
D110271		3.36	0.029	<0.2	1.01	11	<10	70	<0.5	<2	1.29	<0.5	15	34	543	2.78
D110272		5.10	0.037	<0.2	1.10	16	<10	120	<0.5	<2	0.96	<0.5	17	36	670	3.39
D110273		5.02	0.536	4.4	0.17	139	<10	110	<0.5	<2	0.14	1.1	93	26	5540	9.07
D110274		5.16	0.019	<0.2	1.54	5	<10	110	<0.5	<2	0.88	<0.5	18	56	380	3.78
D110275		4.66	0.021	<0.2	1.33	2	<10	70	<0.5	<2	0.92	<0.5	16	42	161	3.47
D110276		5.40	0.092	<0.2	1.12	14	<10	100	<0.5	<2	0.57	<0.5	15	44	672	3.53
D110277		4.60	0.016	<0.2	1.17	<2	<10	100	<0.5	<2	0.70	<0.5	12	44	116	3.04
D110278		4.18	0.056	<0.2	1.07	20	<10	90	<0.5	<2	1.18	<0.5	15	41	263	3.45
D110279		4.30	0.030	<0.2	1.21	11	<10	70	<0.5	<2	0.89	<0.5	17	45	274	3.98
D110280		4.40	0.258	2.5	0.04	248	<10	120	<0.5	<2	0.13	0.7	66	27	4150	8.31



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
D110241	<10	<1	0.37	10	1.02	123	3	0.08	24	390	2	0.81	<2	5	129
D110242	<10	1	0.26	10	0.90	220	12	0.03	17	510	5	0.32	<2	4	91
D110243	<10	<1	0.27	10	0.75	189	21	0.03	17	430	6	0.10	<2	3	118
D110244	<10	<1	0.10	<10	0.07	232	12	0.01	118	780	10	3.90	<2	1	31
D110245	<10	<1	0.06	<10	0.02	58	3	0.03	17	930	<2	0.99	<2	1	72
D110246	<10	1	0.12	<10	1.73	140	8	0.02	18	580	<2	2.51	3	3	25
D110247	<10	1	0.18	10	1.29	391	8	0.05	18	420	4	0.31	<2	5	73
D110248	10	<1	0.19	10	1.36	282	6	0.15	23	570	6	0.75	<2	4	117
D110249	<10	<1	0.13	<10	0.92	174	4	0.02	20	510	<2	1.94	2	2	40
D110250	<10	1	0.07	<10	0.14	91	6	0.02	19	450	<2	2.98	<2	1	58
D110251	<10	1	0.07	<10	0.01	38	9	0.01	42	290	<2	5.20	<2	1	43
D110252	<10	1	0.11	<10	0.05	109	7	0.01	89	260	<2	4.93	3	1	33
D110253	<10	1	0.03	<10	<0.01	26	2	<0.01	11	90	<2	1.30	<2	<1	6
D110254	<10	<1	0.10	<10	0.10	259	7	0.01	68	780	<2	0.53	7	2	58
D110255	<10	<1	0.16	<10	0.04	150	21	<0.01	39	330	7	2.73	2	1	31
D110256	<10	<1	0.03	<10	<0.01	21	11	<0.01	9	120	<2	1.01	<2	<1	6
D110257	<10	<1	0.08	<10	0.01	27	15	<0.01	12	220	<2	0.69	<2	<1	24
D110258	<10	1	0.02	<10	0.01	23	2	<0.01	3	60	<2	0.19	<2	<1	13
D110259	<10	<1	0.02	<10	0.02	45	2	<0.01	5	30	<2	0.15	8	<1	6
D110260	<10	<1	0.05	10	0.01	60	5	<0.01	4	40	<2	0.34	2	<1	10
D110261	<10	<1	0.06	<10	0.01	72	4	<0.01	5	60	2	0.20	4	<1	9
D110262	<10	<1	0.06	<10	0.01	66	30	<0.01	3	100	<2	0.23	<2	<1	17
D110263	<10	<1	0.04	<10	0.02	111	12	<0.01	5	60	3	0.26	3	1	13
D110264	<10	<1	0.02	<10	0.05	176	16	<0.01	12	100	2	0.37	2	1	11
D110265	<10	<1	0.01	<10	0.05	330	10	<0.01	33	50	2	0.64	<2	1	11
D110266	<10	1	<0.01	<10	0.05	395	47	<0.01	89	40	4	2.61	3	2	7
D110267	<10	1	<0.01	<10	0.08	556	31	<0.01	45	20	11	1.27	13	1	6
D110268	<10	<1	0.01	<10	0.08	363	28	<0.01	42	20	8	1.13	7	1	9
D110269	<10	<1	0.44	<10	1.23	151	14	0.06	17	410	2	0.10	<2	8	70
D110270	<10	<1	0.23	10	1.15	157	39	0.05	20	410	<2	0.10	5	6	50
D110271	<10	<1	0.21	10	0.97	145	20	0.05	17	430	<2	0.07	3	5	55
D110272	<10	<1	0.55	10	1.08	158	4	0.07	18	430	<2	0.09	3	8	60
D110273	<10	<1	0.06	<10	0.10	172	388	0.01	80	50	32	1.94	3	1	13
D110274	10	1	0.77	10	1.27	184	5	0.12	20	510	4	0.06	<2	8	48
D110275	10	<1	0.36	10	1.16	169	2	0.08	19	400	2	0.03	2	7	50
D110276	10	<1	0.54	<10	0.88	173	5	0.10	20	360	4	0.20	2	4	34
D110277	10	<1	0.57	10	0.97	154	2	0.10	15	400	3	0.02	<2	4	47
D110278	10	<1	0.48	20	1.10	196	1	0.07	20	420	4	0.03	12	8	73
D110279	<10	<1	0.48	10	1.08	162	6	0.08	17	510	4	0.04	5	7	56
D110280	<10	1	<0.01	<10	0.07	168	123	0.01	78	10	14	0.99	7	1	15



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th	Ti	Ti	U	V	W	Zn	Cu
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	% 0.01
D110241		<20	0.05	<10	<10	49	<10	18	
D110242		<20	0.01	<10	10	30	<10	26	
D110243		<20	<0.01	<10	<10	26	<10	22	
D110244		<20	<0.01	<10	<10	11	<10	72	
D110245		<20	<0.01	<10	<10	24	<10	5	
D110246		<20	<0.01	<10	<10	30	<10	14	
D110247		<20	0.01	<10	<10	50	<10	43	
D110248		<20	0.02	<10	<10	53	<10	56	
D110249		<20	<0.01	<10	<10	20	<10	17	
D110250		<20	<0.01	<10	<10	17	<10	11	
D110251		<20	<0.01	<10	10	7	<10	11	
D110252		<20	<0.01	<10	<10	15	<10	14	
D110253		<20	<0.01	<10	<10	8	<10	5	
D110254		<20	<0.01	<10	<10	50	<10	31	
D110255		<20	<0.01	<10	<10	15	<10	52	
D110256		<20	<0.01	<10	<10	5	<10	5	
D110257		<20	<0.01	<10	<10	2	<10	9	
D110258		<20	<0.01	<10	<10	1	<10	3	
D110259		<20	<0.01	<10	<10	3	<10	10	
D110260		<20	<0.01	<10	<10	4	<10	5	
D110261		<20	<0.01	<10	<10	5	<10	10	
D110262		<20	<0.01	<10	<10	8	<10	9	
D110263		<20	<0.01	<10	<10	15	<10	11	
D110264		<20	0.01	<10	<10	31	<10	13	
D110265		<20	0.01	<10	<10	29	<10	30	
D110266		<20	0.03	<10	<10	34	<10	92	1.69
D110267		<20	0.02	<10	<10	26	<10	123	
D110268		<20	0.01	<10	<10	24	<10	47	
D110269		<20	0.16	<10	<10	76	<10	22	
D110270		<20	0.07	<10	<10	64	<10	22	
D110271		<20	0.03	<10	<10	54	<10	24	
D110272		<20	0.12	10	<10	67	<10	24	
D110273		<20	0.05	<10	<10	37	<10	129	
D110274		<20	0.23	<10	<10	93	<10	29	
D110275		<20	0.10	<10	<10	78	<10	27	
D110276		<20	0.21	<10	<10	79	<10	24	
D110277		<20	0.22	<10	<10	83	<10	24	
D110278		<20	0.13	<10	<10	78	<10	29	
D110279		<20	0.15	<10	<10	93	<10	25	
D110280		<20	0.03	<10	<10	42	<10	104	



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
D110281		4.92	0.518	2.5	0.05	481	<10	80	<0.5	<2	0.31	<0.5	84	34	3150	10.20
D110282		3.94	0.068	1.1	0.05	115	<10	60	<0.5	<2	0.12	0.5	20	31	1290	3.78
D110283		5.22	0.115	1.0	0.05	89	<10	30	<0.5	<2	0.12	0.5	22	30	1270	5.15
D110284		4.30	0.110	1.3	0.09	91	<10	90	<0.5	<2	0.14	0.5	45	29	1570	10.35
D110285		3.38	0.086	1.4	0.12	59	<10	110	<0.5	<2	0.08	0.7	33	30	1770	5.91
D110286		5.38	0.362	1.4	0.07	123	<10	80	<0.5	<2	0.15	<0.5	29	33	2380	6.88
D110287		5.18	0.094	1.5	0.05	285	<10	100	<0.5	<2	0.24	<0.5	40	37	2490	8.69
D110288		3.24	0.031	0.2	0.12	74	<10	630	<0.5	<2	0.27	0.5	43	36	587	10.30
D110289		3.92	0.033	<0.2	0.72	11	10	270	<0.5	<2	0.42	<0.5	17	23	77	3.30
D110290		5.42	0.026	0.5	0.75	49	10	310	<0.5	<2	1.80	<0.5	25	24	411	3.22
D110291		4.52	0.022	<0.2	1.06	13	10	90	<0.5	<2	1.46	<0.5	17	34	84	3.34
D110292		4.20	0.011	<0.2	1.11	10	<10	60	<0.5	<2	1.39	<0.5	15	35	112	3.25
D110293		4.74	0.009	<0.2	0.69	4	<10	80	<0.5	<2	6.37	<0.5	1	5	140	0.62
D110294		7.30	0.046	<0.2	0.58	<2	<10	90	<0.5	<2	2.97	<0.5	3	5	120	1.12
D110295		4.82	0.013	<0.2	0.61	<2	<10	100	<0.5	<2	3.99	<0.5	3	7	222	0.67
D110296		3.94	0.007	<0.2	0.53	<2	<10	80	<0.5	<2	4.37	<0.5	<1	6	33	0.24
D110297		4.94	0.029	<0.2	0.44	<2	<10	70	<0.5	<2	6.45	<0.5	1	6	119	0.54
D110298		4.32	0.016	<0.2	0.60	<2	<10	80	<0.5	2	2.90	<0.5	1	8	282	0.43
D110299		2.70	0.015	<0.2	0.74	<2	<10	70	<0.5	<2	1.92	<0.5	1	7	45	0.36
D110300		5.08	0.038	<0.2	0.75	2	<10	100	<0.5	<2	2.94	<0.5	1	6	16	0.99
D110301		5.54	0.013	<0.2	0.54	4	<10	70	<0.5	<2	5.41	<0.5	1	7	9	0.69
D110302		6.04	0.024	<0.2	0.70	<2	<10	100	<0.5	<2	3.21	<0.5	2	7	14	0.74
D110303		5.06	0.180	<0.2	0.55	<2	<10	80	<0.5	2	2.56	<0.5	6	7	16	2.73
D110304		4.82	0.052	<0.2	0.54	<2	<10	70	<0.5	<2	2.44	<0.5	3	7	11	2.37
D110305		4.84	0.046	<0.2	0.67	<2	<10	80	<0.5	2	1.80	<0.5	5	9	11	2.24
D110306		5.86	0.016	<0.2	0.83	<2	<10	110	<0.5	<2	2.42	<0.5	1	7	21	0.72
D110307		3.48	0.029	<0.2	0.72	2	<10	90	<0.5	<2	3.22	<0.5	1	6	34	0.74
D110308		4.30	0.068	<0.2	0.64	<2	<10	90	<0.5	<2	3.70	<0.5	7	6	16	1.81
D110309		3.24	0.068	0.3	0.79	2	<10	100	<0.5	<2	1.39	<0.5	3	9	81	0.94
D110310		3.70	0.029	<0.2	1.53	6	10	110	<0.5	<2	0.58	<0.5	17	21	426	3.56
D110311		3.32	0.025	0.3	1.67	18	10	110	<0.5	<2	1.01	<0.5	12	27	553	3.44
D110312		3.04	0.024	0.2	1.96	20	10	160	<0.5	<2	1.82	<0.5	20	27	425	7.09
D110313		3.02	0.027	0.2	1.45	3	<10	290	<0.5	<2	1.68	<0.5	16	31	383	5.34
D110314		5.28	0.029	<0.2	0.99	12	10	20	<0.5	<2	0.18	<0.5	33	11	137	6.73
D110315		5.82	0.017	<0.2	0.85	9	<10	40	<0.5	<2	0.21	<0.5	25	11	79	3.93
D110316		3.18	0.014	<0.2	0.74	32	<10	40	<0.5	<2	0.12	<0.5	25	9	75	3.84
D110317		4.52	0.019	<0.2	0.82	14	10	20	<0.5	<2	0.77	<0.5	48	14	187	4.78
D110318		5.78	0.010	0.3	0.89	9	<10	100	<0.5	<2	0.17	<0.5	15	8	33	2.01
D110319		4.16	0.010	0.5	1.45	53	10	60	<0.5	<2	0.11	<0.5	24	7	51	4.89
D110320		3.82	0.006	0.3	0.81	13	10	230	<0.5	<2	0.12	<0.5	3	7	21	0.71



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
D110281	<10	<1	<0.01	<10	0.12	218	23	0.01	93	30	11	0.78	17	1	20	
D110282	<10	<1	<0.01	<10	0.09	221	17	0.01	46	40	7	0.49	17	1	9	
D110283	<10	<1	<0.01	<10	0.08	254	18	0.01	47	70	6	0.81	11	1	7	
D110284	<10	<1	<0.01	<10	0.07	287	17	0.01	111	40	6	0.32	11	1	10	
D110285	<10	<1	<0.01	<10	0.07	235	24	0.01	66	50	3	0.31	3	1	7	
D110286	<10	<1	<0.01	<10	0.09	142	15	0.01	69	30	3	0.33	14	1	9	
D110287	<10	<1	<0.01	<10	0.19	264	51	0.01	83	30	4	0.35	65	2	13	
D110288	<10	<1	<0.01	<10	0.23	537	7	0.01	97	150	12	0.14	28	3	26	
D110289	<10	<1	0.20	<10	0.36	526	4	0.01	42	390	6	0.03	8	6	27	
D110290	<10	1	0.18	30	1.05	462	4	0.04	29	450	9	0.46	18	6	135	
D110291	10	1	0.13	30	1.13	326	2	0.05	24	460	4	0.25	2	6	187	
D110292	10	<1	0.13	10	1.05	291	3	0.06	25	410	<2	0.04	3	6	77	
D110293	<10	<1	0.19	<10	0.46	257	66	0.05	4	710	2	4.51	2	1	325	
D110294	<10	<1	0.21	<10	0.16	154	47	0.04	4	480	5	3.13	<2	1	139	
D110295	<10	<1	0.21	<10	0.20	172	48	0.05	2	560	2	3.15	<2	1	206	
D110296	<10	<1	0.21	<10	0.14	123	96	0.04	2	390	3	3.32	<2	1	190	
D110297	<10	<1	0.18	<10	0.08	82	63	0.03	2	530	<2	5.48	<2	1	245	
D110298	<10	<1	0.21	<10	0.04	43	99	0.03	3	630	<2	2.47	<2	1	182	
D110299	<10	<1	0.26	<10	0.01	22	82	0.03	<1	900	2	1.57	<2	1	135	
D110300	<10	<1	0.21	<10	0.02	21	109	0.02	2	340	<2	3.27	<2	1	122	
D110301	<10	<1	0.20	<10	0.01	18	123	0.02	1	440	3	4.94	2	<1	253	
D110302	<10	<1	0.28	<10	0.04	17	126	0.02	2	350	<2	3.17	<2	1	132	
D110303	<10	<1	0.29	<10	0.03	24	105	0.02	4	610	15	4.73	<2	1	163	
D110304	<10	<1	0.27	<10	0.02	17	669	0.02	3	550	<2	4.34	2	<1	135	
D110305	<10	<1	0.27	<10	0.03	28	59	0.02	2	830	2	3.47	<2	1	89	
D110306	<10	<1	0.30	<10	0.02	17	100	0.02	2	530	2	2.49	<2	1	120	
D110307	<10	<1	0.24	<10	0.02	18	38	0.02	2	560	2	3.14	2	1	151	
D110308	<10	<1	0.28	<10	0.04	16	67	0.02	3	490	<2	4.81	2	1	171	
D110309	<10	1	0.36	<10	0.04	25	38	0.01	3	460	4	1.83	2	2	86	
D110310	10	1	0.49	10	0.62	250	5	0.07	19	530	6	1.51	3	6	31	
D110311	10	3	0.41	10	0.78	307	4	0.08	18	750	11	0.88	4	7	38	
D110312	10	1	0.34	10	1.15	491	5	0.08	27	940	12	1.19	2	10	54	
D110313	10	1	0.29	10	0.84	395	3	0.10	25	630	8	0.70	4	10	56	
D110314	<10	2	0.18	<10	0.03	128	6	0.04	45	540	9	3.83	2	1	160	
D110315	<10	<1	0.14	10	0.02	70	2	0.04	25	840	<2	3.11	2	1	285	
D110316	<10	<1	0.11	<10	<0.01	33	3	0.02	31	470	<2	3.71	2	<1	134	
D110317	<10	1	0.20	<10	0.03	101	2	0.01	59	620	11	3.22	5	1	189	
D110318	<10	<1	0.09	<10	0.04	30	3	0.02	21	390	2	2.17	<2	1	167	
D110319	<10	<1	0.05	<10	0.03	55	2	0.02	39	210	2	4.56	<2	1	97	
D110320	<10	1	0.12	<10	0.01	27	3	0.02	5	490	2	0.48	<2	1	114	



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## CERTIFICATE OF ANALYSIS VA07149127

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu % 0.01
D110281		<20	0.03	<10	<10	50	<10	72	
D110282		<20	0.02	<10	<10	19	<10	72	
D110283		<20	0.02	<10	<10	51	<10	77	
D110284		<20	0.03	<10	<10	29	<10	80	
D110285		<20	0.03	<10	<10	27	<10	100	
D110286		<20	0.04	<10	<10	39	<10	27	
D110287		<20	0.03	<10	<10	48	<10	76	
D110288		<20	0.02	<10	<10	37	10	97	
D110289		<20	0.01	<10	<10	46	<10	61	
D110290		<20	0.02	<10	<10	49	<10	53	
D110291		<20	0.08	<10	<10	70	<10	32	
D110292		<20	0.03	<10	<10	60	<10	32	
D110293		<20	<0.01	<10	<10	10	<10	12	
D110294		<20	<0.01	<10	<10	7	<10	4	
D110295		<20	<0.01	<10	<10	8	<10	5	
D110296		<20	<0.01	<10	<10	7	<10	3	
D110297		<20	<0.01	<10	<10	6	<10	2	
D110298		<20	<0.01	<10	<10	8	<10	2	
D110299		<20	<0.01	<10	<10	10	<10	2	
D110300		<20	<0.01	<10	<10	11	<10	2	
D110301		<20	<0.01	<10	<10	7	<10	<2	
D110302		<20	<0.01	<10	<10	9	<10	<2	
D110303		<20	<0.01	<10	<10	6	<10	3	
D110304		<20	<0.01	<10	<10	5	<10	2	
D110305		<20	<0.01	<10	<10	6	<10	3	
D110306		<20	<0.01	<10	<10	9	<10	2	
D110307		<20	<0.01	<10	<10	8	<10	2	
D110308		<20	<0.01	<10	<10	8	<10	<2	
D110309		<20	<0.01	<10	<10	8	<10	4	
D110310		<20	0.01	<10	<10	72	<10	45	
D110311		<20	0.01	<10	<10	82	<10	56	
D110312		<20	0.03	<10	<10	159	<10	64	
D110313		<20	0.03	<10	<10	124	<10	62	
D110314		<20	<0.01	<10	<10	32	<10	31	
D110315		<20	<0.01	<10	<10	13	<10	8	
D110316		<20	<0.01	<10	<10	13	<10	6	
D110317		<20	<0.01	<10	<10	30	<10	35	
D110318		<20	<0.01	<10	<10	11	<10	6	
D110319		<20	<0.01	<10	<10	24	<10	11	
D110320		<20	<0.01	<10	<10	8	<10	5	







