

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Prospecting, Soil Sampling, Geophysical

TOTAL COST: \$122,948.00

AUTHOR(S): J. Greg Dawson, Jessica Norris

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A

YEAR OF WORK: 2012

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5418900 (November 22, 2012), 5425325 (January 8, 2013), 5425329 (January 8, 2013)

PROPERTY NAME: North Rok

CLAIM NAME(S) (on which the work was done): 633347 (West ROK), 633348 (NW ROK), 633350 (ROK-Black Sheep)

COMMODITIES SOUGHT: Copper, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104H-004, 104H-014, 104H-034, 104H-035

MINING DIVISION: Liard

NTS/BCGS: NTS 104H/13 BCGS 104H.071 & .081

LATITUDE: 57 ° 49 '20 " LONGITUDE: 129 ° 53 '30 " (at centre of work)

OWNER(S):

1) Colorado Resources Ltd.

2)

MAILING ADDRESS:

110 - 2300 Carrington Road, West Kelowna, V4T 2N6

OPERATOR(S) (who paid for the work):

1) Colorado Resources Ltd.

2)

MAILING ADDRESS:

110 - 2300 Carrington Road, West Kelowna, V4T 2N6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Late Triassic - Early Jurassic, copper-gold porphyry, Hazelton Group, Stuhini Group

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 6093, 8481, 17316, 20689, 21901, 31817

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (Incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo Interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic	59.6 km	633347, 633348, 633350	\$20,000
Electromagnetic			
Induced Polarization	10.3 km	633347, 633348, 633350	\$ 25,000
Radlometric			
Seismic			
Other			
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil	496 samples analyzed for ICP-MS and Fire Assay	633347, 633348, 633350	\$18,000
Silt			
Rock	82 samples analyzed for ICP-MS and Fire Assay	633347, 633348	\$18,000
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core			
Non-core			
<b>RELATED TECHNICAL</b>			
Sampling/assaying	496 soil, 82 rock		\$17,000
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)	22 km	633347, 633348, 633350	\$24,948
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
<b>TOTAL COST:</b>			<b>\$122,948.00</b>

# 2012 Geophysical and Geochemical Report

*On the*

**North ROK Property**

**BC Geological Survey  
Assessment Report  
33541**

*Liard Mining Division,  
British Columbia, Canada*

Latitude: 57° 49' 20" N (property centre)  
Longitude: 129° 53' 30" W (property centre)  
NAD 83 UTM Zone 9N: 447000E 6409330N

BCGS Mapsheets: 104H.071 & 081  
NTS Mapsheet: 104H/13

*for*

**COLORADO RESOURCES LTD.**  
110 – 2300 Carrington Road  
West Kelowna, British Columbia  
V4T 2N6

Prepared By:

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January 8<sup>th</sup>, 2013

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## SUMMARY

The North ROK property is located in the Stikine River region of northwestern British Columbia, an area well known for hosting Late Triassic-Early Jurassic age copper-gold porphyry deposits. The 3448 hectare claim block was staked in 2009 to cover ground immediately north of Firesteel Resources' ROK-Coyote property where porphyry style, copper-gold  $\pm$  molybdenum mineralization occurs within a hydrothermal sulphide system measuring at least 18 square kilometers. The North ROK property is located along Highway 37, approximately 190 kilometres north of Stewart, 67 kilometres south of Dease Lake and 15 kilometres north-northwest of the Imperial Metals Corp., Red Chris copper-gold deposit.

The North ROK property is underlain by andesitic volcanoclastics and breccias with minor siltstones, mudstones and limy sediments of the Upper Triassic, Stuhini Group to Lower Jurassic, Hazelton Group. On the west side of the property these rocks are intruded by the Early Jurassic, quartz monzonite, Edon Stock. On the far-east side of the property the stratigraphy is intruded by Early Jurassic felsic dykes. In both areas, pyrite-chalcopyrite  $\pm$  molybdenite is associated with the intrusive rocks. The North ROK Property contains four historic copper  $\pm$  gold minifile occurrences: HI or "Klappan Rose" (104H 014), Plateau (104H 034), Mabon (104H 035), and Edon (104H 004).

Initial historic exploration over the North ROK claims concentrated on the "Klappan-Rose" copper showings associated with the felsic dykes where skarn-style mineralization returned significant copper and gold values over limited widths. In the 1970's exploration on the current claims focused on the Edon Stock where a large malachite stain was noted and numerous disseminated, fracture and quartz vein to stockwork hosted pyrite-chalcopyrite  $\pm$  molybdenite occurrences were discovered associated with propylitic to phyllic alteration. Since the mid 1980's, exploration work in the area has focused on the ROK-Coyote system to the immediate south.

In late 2009, Brett Resources Inc. staked the North ROK claim group then in mid-2010, carried out a reconnaissance style program over the North ROK claims to test for possible extensions of the ROK-Coyote copper-gold system to the north, west and east. The program included silt sampling, prospecting and rock sampling of colour anomalies and known copper showings and occurrences and systematic rock chip sampling along elevation contour lines over the Edon Stock and across the Plateau minifile occurrence. Silt samples coming from Mabon Creek and drainages off the northern end of the ridge east of Mabon Creek yielded elevated and anomalous copper, gold and molybdenum values. Rock grabs taken from phyllic altered andesites at the Mabon showing returned elevated and anomalous copper and gold values.

In 2010 Brett Resources Inc. was acquired by Osisko Mining Corporation and in February, 2011 Colorado made an agreement with Osisko to acquire all of Brett's non-core assets, including the North ROK Property. In 2012 Colorado Resources conducted two exploration campaigns on the western claim blocks at North ROK including soil sampling (496 samples), prospecting/rock sampling (82 samples), line-cutting, ground magnetometer surveying (37 km), and induced polarization surveying (10.3 km). Soil and rock sampling returned elevated and anomalous copper and gold values in the vicinity of the Mabon minifile occurrence. The ground magnetometer survey outlined significant magnetic anomalies underlying and to the west of the Edon and Mabon showings. Induced Polarization has identified a high-chargeability anomaly underlying the Mabon showing which is open to the south. These coincident copper-gold geochemical and geophysical anomalies underlying the historic Mabon showing are convincing evidence for copper-gold porphyry-style mineralization on the North ROK Property and an aggressive geophysical and drilling program for 2012 is recommended.

## **INTRODUCTION**

The North ROK Property contains four historic copper ± gold minifile occurrences: HI or “Klappan Rose” (104H 014), Plateau (104H 034), Mabon (104H 035), and Edon (104H 004). The 2012 exploration program consisted of soil and rock geochemical sampling, and ground-based geophysical surveys focused over the Mabon and Edon showings in western claim blocks of the North ROK Property. This assessment report documents work and results.

The Edon showing (Minifile 104H 004) occurs on the western flank of Ehahcezetle Mountain on the North ROK Property, and comprises a large (1 by 1.5 kilometre) pyritic "Stain Zone" containing several mineralized occurrences with visible chalcopyrite and molybdenite. The quartz monzonite stock, which intrudes unnamed Upper Triassic to Lower Jurassic fragmental feldspar porphyritic andesite, hosts the occurrences and has undergone intense quartz-sericite alteration and the introduction of tourmaline. The stock is possibly related to the Early Jurassic Rose and Edon Plutons. The Stain Zone lies within a well-developed propylitic alteration envelope marked by abundant chlorite, epidote and pyrite.

The Mabon showing (Minifile 104H 035) underlies the northwestern flank of Ehahcezetle Mountain, just south of Mabon Creek, ~3.5 kilometres southeast of the village of Iskut. A sample of gossanous quartz-sericite-pyrite altered rock with 5-10 per cent fine disseminated pyrite was taken by members of the B.C. Geological Survey in 1994. The sample assayed 0.42 g/t gold and 0.33 % copper (Ash et al., 1997). This alteration type is typically hosted by andesitic volcanic breccia of the Lower Jurassic Hazelton Group.

The field program was completed over two separate exploration campaigns. The first campaign completed between August 24<sup>th</sup> and September 4<sup>th</sup>, 2012 was primarily a reconnaissance program to follow up on results from the 2010 program at the Mabon showing. The first exploration campaign consisted of prospecting/rock sampling, soil sampling, and 59.6 kilometres of ground magnetometer surveying. The second exploration campaign was initiated following successful results of the first campaign. Completed between September 25<sup>th</sup> and November 1<sup>st</sup>, 2012, the second exploration campaign consisted of continued and follow-up prospecting, expansion of the soil sampling grid, line-cutting and 10.3 kilometres of induced polarization (IP) surveying.

The 2012 field program was planned, organized, and supervised by several geologists in the employ of Colorado Resources Ltd. Soil and rock geochemical sampling was conducted by geologists and prospectors employed by Colorado Resources Ltd. and CJL Enterprises 2008 Ltd. of Smithers B.C. The ground Magnetometer Survey was conducted by Meridian Mapping. Line-cutting services were provided by CJL Enterprises 2008 Ltd. of Smithers B.C. The Induced Polarization (IP) Survey was conducted by Peter E. Walcott and Associates Ltd. of Vancouver, B.C. Field work was based out of Tatogga Lake Resort during the first exploration campaign, and then based out of the Iskut Motor Inn for the second campaign where by food, lodging, and laundry services were provided. All geochemical analysis was carried out by Acme Analytical Laboratories Ltd. in Vancouver, B.C.

## **LOCATION, ACCESS, PHYSIOGRAPHY and CLIMATE**

The North ROK property is situated in the Liard Mining Division within the Stikine River region of northwestern British Columbia, Canada (Figure 1). The property is situated approximately 190 kilometres north of Stewart B.C., with the closest populated centre being Iskut Village, located along Highway 37 about 5.7 kilometres to the west-northwest of the property centre. The abandoned B.C.



Railway rail grade and right-of-way is located approximately 13 kilometres due east across the Klappan River. The centre of the property is at about UTM co-ordinates 447000 East and 6409330 North (NAD 83, Zone 9) or 57° 49' 20" north latitude and 129° 53' 30" west longitude. The mineral claims are plotted on British Columbia Government claim map sheets 104H071 and 104H081 or NTS map sheet 104H/13W.

Access to the area is usually gained by taking Highway 37, commonly referred to as the Stewart-Cassiar Highway, north from Smithers or by taking a scheduled air flight from Smithers to Dease Lake. Property access to lower elevations is obtainable by truck or car using Highway 37 which passes through the western portion of the property. The extreme southeastern part of the property can be accessed by truck or car from the gravel, Ealue Lake road which passes along the north shore of Ealue Lake in a northeasterly direction (Figure 2). The upper portions of the property are most easily accessed by helicopter using either Pacific Western Helicopters based in Dease Lake, approximately 67 kilometres north of the claims or via seasonal helicopter bases that are sometimes stationed at the Tatogga Lake Resort or at Willow Creek.

The roughly "n" shaped claim group covers ground on the north and east end of the Ehahcezetle Mountain "Massif" extending down to Ealue Lake in the extreme southeast corner of the property and to Eddontenajon Lake in the west. In the northeast and north central portions of the property, topography consists of gently rolling hills with extremely rugged, steep slope along deeply incised creek valleys and along the west and south facing flanks of the Massif. The westernmost portion of the property along Highway 37 covers outwash gravels from Mabon Creek and is relatively flat.

Elevations vary from about 830 meters above sea level (asl) along the western edge of the property where claims extend over Eddontenajon Lake to 1790 meters asl atop the ridge trending north from Ehahcezetle Mountain in the south central part of the property.

Property vegetation consists of spruce and balsam forest cover with stands of aspens and scrub conifers at the lower elevations while buck-brush, willow and slide alder are common along the steep-sided, incised creek valleys. At higher elevations dwarf birch, willow and balsam dominate. Above tree line at about the 1370 meter elevation contour, alpine grasses and flowers are the predominant vegetation.

Glacial overburden and outwash gravels cover significant portions of the of the property on the far west, north and northeast while thick scree slopes are common along the lower slopes of Ehahcezetle Mountain, particularly those facing Eddontenajon Lake, Ealue Lake and along the deeply incised creek valleys.

The climate in the area is northern temperate with moderately warm summers and cold dry winters. Typical daytime temperature ranges are from the mid to upper 20<sup>0</sup>'s Celsius in summer and -20° to -30° Celsius in winter. Precipitation averages about 100 cm per year. Thick accumulations of snow are common in winter. Fieldwork can normally start at lower elevations in mid-May and at the upper elevations by early to mid-June. Cold weather, winds and snow squalls make field work difficult at the upper elevations past late September although programs have been carried out until mid-October. At the nearby Red Chris project where conditions are similar, drilling programs have been carried out through the entire year.

## CLAIM INFORMATION and OWNERSHIP

The North ROK property consists of eleven (11) mineral claims covering 3448 hectares on the northern portion of a small massif situated northeast of the junction of Highway 37 and the Ealue Lake road (Figure 2). The claims are contiguous to and immediately north, east, west and southeast of the ROK-Coyote property owned by Firesteel Resources Inc. The mineral claims are located in the Liard Mining Division and are plotted on British Columbia Government claim map sheets 104H071 and 104H081, or NTS map sheet 104H/13W. A complete list of the claims, their size and new expiry dates as of the filing of this assessment report are provided in Table 1.

**Table 1. North ROK Property Claims**

Tenure Number	Claim Name	Area (Ha)	Issue Date	Expiry Date*	Map Sheet Number
633323	East ROK	413.98	Sept. 13, 2009	January 31, 2018	104H-071/081
633344	NE ROK	430.92	Sept. 13, 2009	January 31, 2018	104H-081
633345	North ROK	413.63	Sept. 13, 2009	January 31, 2018	104H-081
633347	West ROK	431.06	Sept. 13, 2009	January 31, 2018	104H-081/071
633348	NW ROK	413.64	Sept. 13, 2009	January 31, 2018	104H-081
633350	ROK-Black Sheep	361.97	Sept. 13, 2009	January 31, 2018	104H-081
1012892	North ROK- Black Sheep 2	206.87	Sept. 15, 2012	January 31, 2018	104-081
594233	(No Name)	17.27	Nov. 14, 2008	January 31, 2018	104H-071
664024	Red Chris	17.27	Nov. 2, 2009	January 31, 2018	104H-071
1007462	Central Red Chris 1	362.51	June 29, 2012	January 31, 2018	104H-071
1007482	Central Red Chris 2	379.85	June 29, 2012	January 31, 2018	104H-071

\*Pending approval of this report

All eleven (11) mineral claims comprising the North ROK property are owned 100% by Colorado Resources Ltd. With the filing of this assessment report, all eleven mineral claims will be in good standing until January 31, 2018. There are no taxes payable with respect to the property, although standard work assessment requirements will apply to maintain the claims in good standing past the said dates.

## HISTORY and PREVIOUS WORK

The North ROK property is located in the Stikine River area of north-western British Columbia, a region well known for its sub-alkalic to alkalic plutons, associated porphyry copper-gold mineralization and peripheral gold-silver bearing quartz veins.

The first recorded exploration work carried out in the area of the North ROK claims dates back to 1929, when eight claims were staked to cover the Klapan (later referred to as Klappan Rose and now the HI) copper showing situated along the eastern flanks of Ehahcezette Mountain (Figure 2). A small adit and several hand-dug pits were excavated in the skarn showing before the claims were allowed to lapse.

The next recorded work did not occur until the 1960's when Yukonadian Mineral Explorations Ltd. staked claims and carried out surface exploration over what is now covered by Firesteel's ROK-Coyote group of claims. In 1970, Granduc Mines Ltd. looked at the Yukonadian ground and carried out

geological mapping and geochemical sampling as part of an evaluation before deciding not to proceed with acquisition. At more or less the same time, Silver Standard Mines Ltd. acquired ground over a portion of the large colour anomaly associated with the Edon Stock on the west side of the North ROK claim group.

In 1974, Texasgulf examined the area as part of a regional exploration program expanding outward from their discovery of what has become known as the Red Chris deposit. After Yukonadian allowed their claims to expire, Texasgulf staked a large claim block in 1975 covering much of Ehahcezetle Mountain and the surrounding Tanzilla Plateau including the North ROK property (Peatfield, 1975). Ground magnetic and IP geophysical surveying, geological mapping and soil geochemical sampling followed by limited hand trenching and 239 meters of percussion drilling and 444 meters of diamond drilling were carried out over selected grid areas in 1975 and 1976 (Peatfield, 1976).

In 1977, Texasgulf carried out further geological mapping, geophysics and geochemistry along with hand trenching on ground covering the eastern margin of the Edon Stock, immediately east of the North ROK property. The work defined an open-ended copper soil anomaly (assessment reports 6511, 7375).

In 1979, Utah Mines Ltd. examined the Texasgulf ground and carried out a small, deep penetration IP geophysical survey before deciding not to acquire an interest in the project. The same year, Texasgulf re-analyzed pulps from soils collected in 1976 and 1977 for gold, silver and lead. This was followed in 1980 by drilling a single, BQ sized diamond drill hole for 258 meters in a malachite stained area (the "Edon Stain Zone") more or less within the copper-gold-molybdenum soil anomaly located in 1977 (Peatfield, 1980).

Simultaneous to work being carried out on the Texasgulf claims, a small amount of work was completed on the HI prospect by different operators including Keystone Explorations Ltd. who carried out extensive soil sampling, prospecting, geological mapping and drilled three diamond drill holes for 182 meters (assessment reports 6124, 6203, 7418, 9556) between 1976 and 1981.

In 1981, Texasgulf underwent a change in ownership that resulted in the company becoming Kidd Creek Mines Ltd. That entity was in turn acquired by Falconbridge Ltd. who by 1987 allowed a number of the key claims making up the large Texasgulf property to lapse and be picked up by Manchester Resources Corp. After carrying out an exploration program in 1988, Manchester optioned the ground to Carina Resources Ltd. who carried out geological mapping, IP and ground magnetic geophysical surveys, soil, rock and silt geochemical sampling, bulldozer and hand trenching followed by drilling 1089.7 meters of BGM sized core in eight holes.

Since 1991 work in the area has been limited to 1:50,000 scale geological mapping by the BC. Government's, Geological Survey Branch (Ash, 1997) and a number of small exploration programs conducted on Firesteel Resources' ROK-Coyote claims including rock and soil geochemical sampling along the Ealue Lake road just north of the Coyote showing in 2004 followed by airborne radiometric and magnetic surveys over two small grids within the Rok-Coyote property immediately south of the North ROK property in 2005. In 2009, Brett Resources on behalf of Firesteel Resources Inc. carried out an IP and ground magnetic survey followed with soil and rock sampling over the Coyote showing grid (Mehner and Travis, 2010).

In late August, 2009, Brett Resources Inc. of Vancouver, B.C. started to assemble a mineral claim package in the general vicinity of the Red Chris and GJ copper-gold porphyry deposits near Iskut Village

in northwestern British Columbia. As part of that program, the North ROK property was staked to cover a large and significant colour anomaly immediately west of Mabon Creek as well as a number of minifile copper occurrences that occur on the outer flanks of a regional airborne magnetic high centered over Ehahcezetle Mountain.

In 2010, Brett Resources carried out a first-pass, reconnaissance style exploration program over the North ROK property consisting of silt sampling, prospecting and contour line controlled rock chip sampling. Silt samples coming from Mabon Creek and drainages off the northern end of the ridge east of Mabon Creek yielded elevated and anomalous copper, gold and molybdenum values. Rock grabs taken from phyllic altered andesites at the Mabon showing returned elevated and anomalous copper and gold values.

## **GEOLOGICAL SETTING**

### **Regional Geology**

The North ROK Property is located in the north-east part of the Stikine Arch, within Stikine Terrane ("Stikinia") rocks of the Canadian Cordillera. The regional geology (Figure 3) as mapped by Souther (1972) and Ash et al. (1995; 1996; 1997a; 1997b), is characterized by Early Mesozoic with minor Late Paleozoic island arc volcanic rocks intruded by coeval, sub-volcanic stocks, plugs, sills and dykes. Within the area, rocks have been subdivided into the Late Paleozoic Stikine, Late Triassic Stuhini and Early to Middle Jurassic Hazelton Groups. The Stuhini Group is dominated by deep submarine sediments and alkalic to sub-alkalic, augite phyric basalts and basaltic volcanoclastic rocks. The unconformably overlying Hazelton Group in contrast is dominated by sub-aerial volcanic and volcanoclastic rocks that range from basalt through andesite to rhyolite. Unconformably overlying the Triassic Stuhini and Jurassic Hazelton rocks to the south are chert pebble conglomerate, grit, greywacke and siltstone of the Middle Jurassic Bowser Lake Group (Ash et al., 1997a).

Transecting the Upper Triassic to Middle Jurassic assemblage are a distinctive suite of massive, flow-banded and locally spherulitic rhyolites and associated pyroclastics that have been variously interpreted as Lower Jurassic (Read, 1984) or Upper Cretaceous to Lower Tertiary (Souther, 1972) in age. Capping the stratigraphy at the higher elevations are Upper Tertiary and Pliocene to Recent basalt and olivine basalt flows, commonly exhibiting excellent columnar jointing.

The suite of intrusive rocks common in the region including those associated with copper-gold mineralization at the nearby Red Chris and GJ projects, range in age from Late Triassic to Early Jurassic (205 to 195 Ma). The intrusions are commonly diorite to monzonite in composition but include quartz diorite, quartz monzonite and monzodiorite. They are typically fine to medium grained, equigranular to porphyritic and often weather buff-white to light grey in colour. A published U-Pb age for the Red Stock which hosts the Red Chris deposit is  $203.8 \pm 8$  Ma whereas ages of  $205.1 \pm 0.8$  Ma,  $206.25 \pm 0.39$  Ma, and  $206.81 \pm 0.65$  Ma have been obtained from the Groat Stock which is associated with copper-gold mineralization at the GJ deposit (Peatfield, 2006; Mehner, 2007). Hornfelsed andesite adjacent to the Edon stock, immediately northwest of the ROK-Coyote property has yielded a date of  $198.5 \pm 2.7$  Ma.

A younger intrusive suite includes alkali-granite to felsite dykes that range from a few metres to over a kilometre in width and are coeval with felsic volcanic rocks in the upper volcanic sequence of the Hazelton Group. U-Pb zircon age dates (Ash et al., 1997b) were reported from an alkali granite dyke ( $180.0 +10.1/-1.0$  Ma) and massive fine-grained quartz porphyritic rhyolite ( $181.0 +5.9/-0.4$  Ma) within the Hazelton sequence.

## **Regional Structure**

Major regional faulting associated with Middle Cretaceous and Tertiary tectonism has had the biggest impact on regional structure. In the area of the North ROK property, the inferred, west-southwest striking Ealue Lake Fault is the largest and most significant structural feature (Figure 3). To the north the rocks are dominantly andesitic volcanoclastics with a minor flow component. A strong northwest fabric defined by bedding, faulting and felsite dyke swarms dominates. To the south of the Ealue Lake fault, dykes and faulting typically strike east-northeast, felsite dykes are absent and zones of intense secondary ankerite-iron magnesite alteration are common.

The Ealue Lake fault has been projected at least 20 kilometres southwest of the property and a further 30 kilometres to the east where it may represent an extension of the McEwan Creek Fault.

## **Regional Mineralization**

The Stikine Arch where the property is located, is a structural domain known for hosting Late Triassic – Early Jurassic, quartz deficient alkalic and sub-alkalic intrusives with associated copper-gold porphyry or precious metal vein systems. Some of the more significant systems of this type in the immediate region include:

- Red Chris, where using a 0.30% copper-equivalent cut-off, Imperial Metals Corp. have published measured and indicated resources of 936 million tonnes grading 0.374 % copper, 0.385 g/t gold, and 1.224 g/t Ag plus inferred resources of 871 million tonnes grading 0.315 % copper, 0.349 g/t gold, and 1.138 g/t Ag (Gillstrom et al., 2012).
- GJ, where NGEx Resources Inc. (formerly Canadian Gold Hunter Corp.) have published indicated resources of 123.09 million tonnes grading 0.314 % copper and 0.352 g/t gold plus inferred resources at 16.05 million tonnes grading 0.286 % copper and 0.291 g/t gold (Mehner et al, 2007).

## **Property Geology**

The North ROK property covers a volcanic complex of late Triassic to early Jurassic age that is intruded by coeval, quartz monzonitic and rhyolitic rocks (Figure 4) associated with a regional magnetic high centered on Ehahceztle Mountain (Figure 5). The bulk of the property is underlain by a complex pile of grey-green and green, aphyric to porphyritic (plagioclase and locally augite) breccia, tuff and flows with lesser amounts of maroon and grey, aphyric and porphyritic (plagioclase) breccia, tuff and flows of the Upper Triassic, Stuhini Group (Mehner and Peatfield, 1991). Minor sediments including volcanic sandstone, siltstone to limy siltstone and locally thin bedded limestone outcrop in the southeast corner of the property. These northwest-southeast striking sediments host the Rose of Klappan, copper-gold skarn (Assessment Report 6124).

In the western portion of the property, the Early Jurassic, quartz monzonite, Edon Stock intrudes the volcanic stratigraphy. Strong disseminated and fracture-controlled pyrite with traces of chalcopyrite and elevated gold and molybdenum values are associated with varying intensities of quartz-sericite-albite-pyrite alteration within the stock.

Thick, unconsolidated Quaternary till and alluvium cover a large portion of the claim group in the northeast along the Summit Creek Valley and along the western portion of the property along Highway 37 and Eddontenajon Lake.

## **Property Structure**

Rocks throughout the property are affected by large scale, open folding or warping and significant, high angle brittle faulting. Local variations in dip are likely due to intrusive doming and fault disruptions. Regionally the volcanic rocks seem to form a broad open syncline (most evident south of the Ealue Lake Fault) around northwest striking axis but later faulting has disrupted this considerably.

The most significant fault on the property is the northwest striking Mabon/Hoodoo Creek Fault which appears to have dissected the ROK volcanic centre on the adjoining ground to the southeast (Figure 4). Although the sense of movement is unclear, it has been speculated (Peatfield, 2006) the fault is a normal, right-lateral fault with 2-4 kilometres of displacement and as much as 1,000 meters down-throw to the northeast. A northwest striking fault has also been mapped along the western boundary of the Edon Stock while a west-northwest striking fault is postulated to run along the Summit Creek Valley.

## **Property Mineralization**

Prior to the 2010 exploration program there were four known mineral occurrences or showings on the property. The most significant of these include:

- Rose of Klappan (HI) in the far southeast corner of the property (Figure 4) where mineralization is of the skarn variety and consists of semi-massive chalcopyrite with pyrite, minor magnetite and malachite in limy sediments. The copper minerals appear related to the emplacement of both quartz deficient, Upper Triassic monzonite and slightly younger, Early Jurassic felsites (Assessment Report 21901).
- the area within and immediately adjacent to the Edon Stock where widespread disseminated and fracture controlled pyrite is locally associated with weakly developed quartz veining to quartz stockwork with trace chalcopyrite and molybdenite and elevated gold values. A small soil grid (Cirque Grid; assessment reports 6511 & 7375) put in over the eastern boundary of the Edon stock by Texasgulf in 1977 identified coincident, open ended, gold, molybdenum and slightly smaller copper anomalies measuring about 235 meters by 525 meters and 350 meters by 175 meters. A single diamond drill hole tested the target in 1980 but without much success (assessment Report 8481).

The other known mineral occurrences on the property include the Edon and the Mabon (Figure 4), both of which are associated with the Edon stock and the Plateau which is an isolated occurrence situated about 2100 meters north of the Rose of Klappan (HI).

In 2012, the Mabon showing was explored in more detail and several rock grab samples contained quartz veinlets and fine-grained disseminations of chalcopyrite and locally bornite, associated with chlorite and magnetite veinlets. A few samples contained 1-4 mm wide quartz veins with minor pyrite and chalcopyrite disseminations (See Rock Sampling section below).

## **Property Alteration**

Throughout the property, weak, propylitic alteration and greenschist facies metamorphism predominate. Closer to the Edon stock alteration intensity increases with chlorite-calcite ± epidote fracture filling/veining and mineral replacement becoming more pronounced. Within and immediately adjacent to the Edon Stock, zones of intense, secondary quartz-sericite-albite-pyrite alteration have been outlined (Figure 4). A narrow zone of K-silicate alteration outcrops at surface near the Mabon showing and is characterized by K-feldspar alteration and magnetite veinlets and disseminations.

## **FIELD and LABORATORY METHODS**

There are various methods and protocols by which sample material is collected. The methods by which the samples were collected during the 2012 exploration program are described below.

Soil geochemical sampling employed the use of a mattock, shovel, or auger to reach an appropriate depth in the subsurface to obtain an adequate soil sample. The “B” horizon was the target for soil samples. Soil samples were collected and stored in brown paper ‘kraft’ bags and labelled with the corresponding sample number. Sample location sites were marked with fluorescent flagging tape, labeled with the sample number. Notes associated with each sample record UTM location, sample depth (cm), colour, % coarse fragments, % organic material, and fragment angularity (Appendix 2). Sample locations were recorded using hand-held Garmin GPS devices.

Rock sampling involved selecting representative grab samples from outcrop and float. Where possible, samples containing sulphides (pyrite) or other economic minerals were preferentially sampled. Samples were taken using a rock hammer and then placed in a poly-bag and labeled with the corresponding sample number. Sample location sites were marked with fluorescent flagging tape, labeled with the sample number. Detailed sample descriptions of samples and geologic stations are presented in Appendix 4. Rock sample locations were taken using a hand-held Garmin GPS device.

All soil and rock samples were analyzed for minor and trace element concentrations by inductively coupled plasma mass spectrometry (ICP-MS) for 36 elements, following a 95°C Aqua Regia digestion (see section on Sample Analysis below). Additionally, these samples underwent fire assay fusion (for Au) followed by inductively coupled plasma – emission spectroscopy (ICP-ES).

All maps in this report were prepared using ArcGIS software. Geochemical data were analyzed and graphed using Microsoft Excel. Data was transferred from Excel to ArcGIS.

## **SAMPLE PREPARATION, ANALYSIS, and SECURITY**

Colorado Resources Ltd. utilizes laboratories registered with current ISO accreditation. The International Standards Organization (ISO) adopted a series of guidelines for the global standardization of Quality Assurance for products and services. A company seeking accreditation must implement and maintain a quality assurance system that is compliant with the applicable models (i.e. ISO 9001, 9002 or 9003).

### **Sample Preparation**

All sample preparation was conducted by Acme Analytical Laboratories Ltd. at the preparation facilities in Whitehorse, Yukon or Smithers, British Columbia. Sample preparation of soil samples involved drying at 60 °C and sieving to a minus 80 mesh to produce a <0.177 mm fraction for analysis (Acme Preparation Code SS80). Surface rock samples (250 g) were crushed, split and pulverized to produce a minus 200 mesh sample (Acme Preparation Code R200-250).

### **Sample Analysis**

Assay sample analyses were conducted by Acme Analytical Laboratories Ltd. in Vancouver, British Columbia. Soil sample splits of 0.5 g were leached in hot (95°C) Aqua Regia and analyzed by ICP-MS (Acme Analysis Code 1DX1). Pulp and reject material (30 g) from all soil samples were also analyzed by fire assay fusion (for Au) followed by ICP-ES (Acme Analysis Code 3B01). Rock sample splits of 0.5 g were

leached in hot (95°C) Aqua Regia and analyzed by ICP-MS (Acme Analysis Code 1DX1). Additionally, 30 g of the rock samples were analyzed by fire assay fusion (for Au) followed by ICP-ES (Acme Analysis Code 3B01). One rock sample (#1554152) reported >10,000 ppm Cu by ICP-MS (1DX1) and was re-analyzed for copper by ICP-ES (emission spectrometry; Acme Analysis Code 7AR).

### Sample Security

After collection all soil and rock samples were stored at the Colorado camp located at Tatogga Lake Resort or the Iskut Motor Inn. Samples were placed in sealed and labeled rice bags, and were then transported by truck to the Acme Analytical Laboratories Ltd. preparation facility in Whitehorse or Smithers. At all times the samples were under complete control of Colorado employees or contactors. The assay laboratory catalogues all samples and assures a complete chain of custody of each sample through the analytical process.

## 2012 EXPLORATION PROGRAM

The 2012 exploration program at North ROK included soil sampling, prospecting/rock sampling, magnetometer surveying, and induced polarization surveying (IP) over the Mabon and Edon showings in the western claim blocks of the North ROK property. Soil and rock sampling was focused on the Mabon Showing area where past sampling and mapping by Ash (1997) noted quartz-sericite-albite-pyrite altered andesitic breccias and conglomerate and returned 3330 ppm copper and 418 ppb gold. In 2010, three rock grabs of similarly altered rock at the Mabon showing returned elevated and anomalous values in copper, gold and molybdenum including 960, 2713 and 2885 ppm copper; 381, 486 and 1240 ppb gold; and 12.7, 18 and 43.9 ppm molybdenum respectively.

The 2012 geophysical program consisted of 59.6 km of a ground magnetometer surveying and 10.3 km of induced polarization (IP) surveying focused on the Mabon and Edon showings in the western claim blocks of the North ROK property. Prior to the 2012 exploration program, no property-scale geophysical surveys had been conducted on the property.

### Soil Sampling

A total of 496 soil samples were taken at the North ROK property in 2012, focused across the Mabon showing and nearby outcrops of the Edon Stock. The goal of the soil sampling program was to assess the potential for copper-gold mineralization underlying the area. Soil samples were taken at 50 m spacing on east-west lines spaced 100 m and 200 m apart. A map of all 2012 soil sample locations and corresponding sample numbers is presented as Figure 6. Notes of soil sample locations and sample parameters are listed in Appendix 2. Acme Analytical Laboratories Ltd. assay certificates of analytical results are presented as Appendix 3. A summary of the copper, gold, and molybdenum assay results from the 2012 soil sampling program is presented in Table 2.

**Table 2. Summary of Copper, Gold, and Molybdenum Geochemistry of 2012 Soil Samples**

Element	Samples Analyzed	Value Range		Average	Median	Value @ 95 <sup>th</sup> percentile
		from	to			
Gold (ppb)	496	0.25	686	14.6	3	56
Copper (ppm)	496	7.8	1981.7	106.7	51.8	329
Molybdenum (ppm)	496	0.4	95.2	4.1	2.4	10.1



Anomalous gold values in soil (95<sup>th</sup> percentile, >56 ppb; Figure 7) are concentrated over the Mabon showing and slightly downslope to the north and northwest. Additionally, anomalous gold values occur on the northern extent of the Edon Stock (as mapped by Ash et al., 1997) and slightly downslope to the north and west. Anomalous copper in soil values (95<sup>th</sup> percentile, >329 ppm; Figure 8) occur in the same areas as the gold in soil anomalies however copper tends to display greater downslope dispersion than gold. Locally anomalous copper values to the west of the northern extent of the Edon Stock could represent downslope dispersion of copper values from higher elevations, or could indicate a copper source beneath the alluvial cover.

Anomalous molybdenum in soil values (95<sup>th</sup> percentile, >10.1 ppm; Figure 9) are concentrated over a broad area to the north of the Edon Stock, and could suggest downslope dispersion of molybdenum values at higher elevations. Although the molybdenum values are relatively low molybdenum in soil is a pathfinder element toward copper and gold mineralization. The southern two lines on the 2012 soil grid show locally anomalous molybdenum values on the west ends and only one elevated value of copper. The elevated molybdenum values could indicate copper and gold mineralization at depth below the alluvial cover. However, the elevated values may also represent downslope dispersion of molybdenum from higher elevations to the east.

Overall, the soil sampling program highlighted a 500 m by 500 m area of anomalous gold, copper, and molybdenum geochemical values over the Mabon showing. The extent of this soil geochemical anomaly indicates that the Mabon showing could be the surface expression of a copper-gold mineralized porphyry system associated with the Edon Stock.

## Rock Sampling

A total of 82 rock samples were taken at the North ROK property in 2012, focused across the Mabon showing and nearby outcrops of the Edon Stock. The goal of the rock sampling/prospecting program was to follow up on the three grab samples from 2010 that reported elevated gold, copper, and molybdenum values at the Mabon showing and to explore for additional mineralization in the area. A map of all 2012 rock sample locations and corresponding sample numbers is presented as Figure 10. Notes of rock sample locations and sample parameters are listed in Appendix 4. Acme Analytical Laboratories Ltd. assay certificates of analytical results are presented as Appendix 5. A summary of the copper, gold, and molybdenum assay results from the 2010 & 2012 rock sampling programs are presented in Table 3.

**Table 3. Summary of Gold, Copper, and Molybdenum Geochemistry of Rock Samples (2010 & 2012)**

Element	Samples Analyzed	Value Range		Average	Median	Value @ 95 <sup>th</sup> Percentile
		from	to			
Gold (ppb)	96	1	4412	295	26.5	401
Copper (ppm)	96	2.4	33270	1401.1	199.4	1958.8
Molybdenum (ppm)	96	0.05	73.2	8.2	4.7	14.4

Several rock grab samples taken in 2012 in and around the Mabon showing reported > 1 g/t gold (Table 4; Figure 11) with significant copper values (Table 4, Figure 12). These results come from quartz-sericite-pyrite altered intrusive and volcanic rocks and K-silicate altered intrusive rocks. Mineralization within many of these samples is noted as including pyrite and chalcopyrite disseminations and veinlets. Local cockscomb pyrite-chalcopyrite bearing quartz veins were noted in one sample (#1508960) and minor bornite was reported in another (#1554101). Some of these samples also contained magnetite and

chlorite veinlets. Overall, the rock samples with the highest gold and copper values were taken from outcrop and subcrop at, or within 200 m of the Mabon showing. Additionally, the rock samples with the highest values of molybdenum were also taken from the same area around the Mabon showing (Figure 13).

**Table 4. Gold and Copper Values of Rock Samples with > 1g/t Au Collected in 2012**

Sample Number	Au (g/t)	Cu (ppm)
1554152	4.41	33270
1554151	3.91	9159.3
1554165	2.51	155.8
1508960	2.47	2478.6
1554101	1.58	1696.9
1554252	1.16	5592.8
1554154	1.01	849.5

Overall the 2012 rock sampling/prospecting program was successful in following up on elevated gold and copper values from the 2010 program. At the Mabon showing, rocks containing disseminations and veinlets of chalcopyrite, pyrite, and lesser bornite were sampled and returned values up to 4.4 g/t gold and 3.3 % copper. Mineralization was reported to be associated with quartz-sericite-pyrite (phyllic) and K-silicate (potassic) alteration styles, typical in porphyry environments. Copper and gold bearing rocks associated with a narrow K-silicate zone at surface surrounded by a broad quartz-sericite-pyrite halo, suggests a copper-gold porphyry system occurs at depth beneath the North ROK Property.

## Geophysics

The ground magnetometer survey was conducted by Meridian Mapping Ltd. and the IP survey was conducted by Peter E. Walcott and Associates Ltd. The objective of the ground magnetometer and IP surveys was to highlight any magnetic, high chargeability, and/or highly resistive bodies underlying the Mabon and Edon showings and to delineate additional targets below alluvial cover that might be related to copper-gold mineralization.

### Ground Magnetometer

The magnetic survey was conducted by two operators from Meridian Mapping Ltd. using two GPS equipped GSM Ver 7.0 19W Overhauser walking magnetometers manufactured by GEM Systems of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an absolute accuracy of +/- 0.1 nT. They were used in 'walking mode' and set to record a reading every 2 seconds. A third GSM 19 magnetometer was employed as a stationary base to measure the diurnal variations in the earth's magnetic field. Data was recorded at a 3 second interval at the base. This base data was used to apply diurnal correction to the rover data. A 200 meter length of overlap line was walked each morning by both units. Data from this overlap line was used to level the data between the two instruments as well as between survey days. A copy of the magnetic survey logistical report is presented as Appendix 6.

The magnetometer survey outlined a 500 m by 500 m area of increased magnetic response directly below and to the southeast of the Mabon showing (Figure 14). Additionally, another 500 m by 500 m area reporting a strong magnetic response was outlined to the west of the Mabon showing, below alluvial cover (Figure 14). The magnetometer survey also identified several smaller areas of increased magnetic response around the Edon showing (Figure 14). The increased magnetic signatures could indicate the presence of magnetite-bearing rocks at depth, or may also reflect the presence of

magnetite associated with chalcopyrite-pyrite ± bornite and K-silicate alteration, as observed on surface at the Mabon showing.

The magnetometer survey also outlined several areas of increased magnetic response in the northeast corner of the survey grid, associated with andesitic volcanic breccia and conglomerates (Figure 14). No known mineralization has been reported in this area of the property and follow-up prospecting and soil sampling is warranted.

### **Induced Polarization**

The IP survey was carried out by Peter E. Walcott and Associates Ltd. on 200 m spaced grid lines using a pole-dipole array with an “a-spacing” of 100 m and “n” separations of one to six. A copy of the Logistical Report on Induced Polarization surveying by Peter E. Walcott and Associates Ltd. detailing the procedure and instrumentation used in survey work is attached to this report (Appendix 7). The Walcott report includes a map showing the location of the survey lines relative to property topography, pseudo sections with resistivity and chargeability data plotted for each line and chargeability and resistivity survey maps.

The initial plan for the IP survey at North ROK was to complete 10 gridlines across the Mabon showing and Edon Stock, however due to the winter weather conditions at the time of the survey only the northernmost 5 IP lines were completed. All 10 gridlines were cut and picketed so that the remaining 5 lines are ready to be surveyed.

A large high-chargeability anomaly, up to 1000m by 400 m was defined by the IP survey below the Mabon showing, and remains open to the south (Figure 15). This anomaly is likely reflecting the broad area of pyrite alteration (quartz-sericite-pyrite) surrounding the Mabon showing, however may also be a result of copper and gold-bearing chalcopyrite-pyrite ± bornite mineralization at depth.

A region of high resistivity with the same dimensions and location of the high-chargeability anomaly was also defined by the IP survey at the Mabon showing (Figure 16). Similarly, the high-resistivity anomaly is likely reflecting the broad zone of quartz-sericite-pyrite alteration ± mineralization observed on surface. The resistivity drops slightly directly at the Mabon showing, suggesting a region of decreased quartz-sericite-pyrite alteration and could indicate a zone of increased copper and gold mineralization (chalcopyrite ± bornite).

Overall, the geophysical surveys provide further evidence for a mineralized porphyry system beneath the Mabon and Edon showings. Coincident increased magnetic response, high-chargeability, and high-resistivity occur over the Mabon showing. The high-chargeability anomaly is suggestive of a mineralized (pyrite ± chalcopyrite) zone associated with quartz alteration (high-resistivity anomaly) and the presence of magnetite veinlets and disseminations (increased magnetic response). Additional zones of magnetic anomalies on the property (Edon showing, west of Mabon showing, and the volcanic rocks in the northeast portion of the grid) delineate areas for follow-up exploration efforts.

## **DISCUSSION AND CONCLUSIONS**

In addition to the soil and rock geochemistry, and alteration, the geophysical anomalies at the Mabon showing are compelling evidence for the possible presence of a copper-gold mineralized porphyry system at depth on the North ROK Property (Figure 17).

The soil and rock geochemical program was successful in outlining areas of gold, copper, and molybdenum anomalies around the Mabon showing and western portion on the Edon Stock (Figure 17). The soil sampling program highlighted a 500 m by 500 m area of anomalous gold, copper, and molybdenum geochemical values over the Mabon showing. Also at the Mabon showing, rocks containing disseminations and veinlets of chalcopyrite, pyrite, and lesser bornite are associated with quartz-sericite-pyrite (phyllitic) and K-silicate (potassic) alteration styles, which are typical of porphyry environments. Sampling of these rocks returned values up to 4.412 g/t gold, and 3.327 % copper.

The Mabon showing exhibits an alteration and mineralization zonation whereby a small zone of K-silicate or chlorite-sericite alteration associated with chalcopyrite ± bornite mineralization occurs in a central location near the reported Mabon showing location. The zonation rapidly transitions outwards to a quartz-sericite-pyrite alteration zone with minor copper and gold mineralization. Abundant pyrite has been mapped in close proximity to Edon showing (Ash et al., 1997).

The geophysical surveys were also successful in defining robust anomalies across the Mabon and Edon showings (Figure 17). Areas of increased magnetic response could indicate the presence of magnetite disseminations and veinlets associated with copper and gold mineralization, as observed on surface at the Mabon showing. The region delineated by high-chargeability and high-resistivity likely reflects a broad region of quartz-sericite-pyrite, however may also contain a significant zone of chalcopyrite ± bornite at depth.

Although the surface expression of mineralization at North ROK is relatively restricted, the vertical component of mineralization has the potential to be extensive. At the nearby Red Chris deposit, the East Zone has a very limited near-surface expression however the high grade copper and gold mineralization extends up to 1 km depth.

## **RECOMMENDATIONS**

Based on the success of the 2012 exploration program at North ROK an aggressive exploration program for 2013 is recommended to include diamond drilling, geophysics, and continued soil and rock sampling/prospecting. Details of the recommended 2013 exploration program include:

- Detailed mapping around the Mabon showing,
- Diamond drilling of the Mabon showing and associated geochemical and geophysical anomalies
- Continuation of the Induced Polarization survey to the south, to cover the Edon Showing
- Continuation of the soil sampling program across the Mabon and Edon showings
- Rock sampling and prospecting of the andesitic volcanic breccia and conglomerate rocks
- Rock sampling and prospecting of other minifile occurrences (Plateau and HI) on the Property

A budget of \$1,000,000 is proposed to complete the recommended work.

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## **COST STATEMENT**

For Work on the North ROK Property; work including project mobilization and demobilization was carried out between August 24<sup>th</sup> and September 4<sup>th</sup>, 2012 (Phase 1) and (September 25<sup>th</sup> to November 1<sup>st</sup>, 2012 (Phase 2).

### ***Phase 1 - August 24<sup>th</sup> to September 4<sup>th</sup>, 2012***

#### **Salaries/Labour**

##### Geology/Project Management

Greg Dawson (Geologist/project manager).....	1 days @ \$750/day.....	\$ 750.00
Jessica Norris (Geologist/project manager).....	5 days @ \$550/day.....	\$ 2750.00
Mark Roden (Prospector).....	5 days @ \$500/day.....	\$ 2500.00
Adam Travis (Geologist).....	1 days @ \$750/day.....	\$ 750.00
Jim Oliver (Geologist).....	1 days @ \$900/day.....	\$ 900.00

##### Soil Sampling/Linecutting/IP Support

Don Coolidge (Soil Sampler).....	1 days @ \$400/day.....	\$ 400.00
Cas Sowa (Linecutter).....	1 days @ \$400/day.....	\$ 400.00

**Total      \$ 8450.00**

#### **Ground Magnetometer Survey**

Ground Mag crew (2), Survey, Processing, Equipment, etc. – All in.....37 km @ \$480/km..... **\$ 17,775.54**

#### **Accommodation and Food**

Field crews..... 13 mandays @ \$150/day ..... **\$ 1950.00**

#### **Geochemistry**

Rock Samples: Acme Labs Preparation (R200-250) 59 @ \$ 6.12.....	\$ 361.08
Acme Labs 36 element ICP (1DX1): 59 @ \$ 13.39.....	\$ 790.01
Acme Labs Fire Assay for Gold (3B01): 59 @ \$ 13.60.....	\$ 802.40
Soil Samples: Acme Labs Preparation (SS80): 112 @ \$2.00.....	\$ 224.00
Acme Labs 36 element ICP (1DX1): 112 @ \$13.39.....	\$ 1499.68
Acme Labs Fire Assay for Gold (3B01): 112 @ \$13.60.....	\$ 1523.20

**Total      \$ 5200.37**

#### **Transportation**

Pick-up Truck (Driving Force – Whitehorse).....6 days @ \$160/day..... \$ 960.00

Fuel for Vehicles..... \$ 200.00

**Total      \$ 1160.00**

#### **Consumables, Field Equipment, Shipping, Miscellaneous**

Sample Bags, Flagging, groceries, etc..... **\$ 500.00**

**Phase 1 Subtotal      \$ 35,035.91**

### ***Phase 2 – September 25<sup>th</sup> to November 1<sup>st</sup>, 2012***

#### **Salaries/Labour**

##### Geology/Project Management

Linda Dandy (Geologist/project manager).....	5 days @ \$750/day.....	\$ 3750.00
Jessica Norris (Geologist/project manager).....	9 days @ \$550/day.....	\$ 4950.00

Milada Pardovicova (Prospector).....	7 days @ \$300/day.....	\$ 2100.00
<u>Soil Sampling/Linecutting/IP Support</u>		
Gene Dominic (Linecutter).....	18 days @ \$350/day.....	\$ 6300.00
Rodney Garcia (Linecutter).....	9 days @ \$350/day.....	\$ 3150.00
Oliver Goldbeck (Soil Sampler).....	18 days @ \$300/day.....	\$ 5400.00
Dave Sebastian (Soil Sampler).....	18 days @ \$300/day.....	\$ 5400.00
Britnay Cline (Soil Sampler).....	5 days @ \$300/day.....	\$ 1500.00
Alfred Day (IP Support).....	4 days @ \$444.60/day.....	\$ 1778.40
Francis Quock (IP Support).....	4 days @ \$312/day.....	\$ 1248.00
Wilfred Hawkins (IP Support).....	4 days @ \$468/day.....	\$ 1872.00
	<b>Total</b>	<b>\$ 37,448.40</b>

**Induced Polarization Survey**

IP Crew (4) and Survey.....	4 days @ \$2945/day .....	<b>\$ 11,780.00</b>
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**Accommodation and Food**

Field crews.....	117 mandays @ \$150/day .....	<b>\$ 17,550.00</b>
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**Geochemistry**

Rock Samples: Acme Labs Preparation (R200-250) 23 @ \$ 6.12.....	\$ 140.76	
Acme Labs 36 element ICP (1DX1): 23 @ \$ 13.39.....	\$ 307.97	
Acme Labs Fire Assay for Gold (3B01): 23 @ \$ 13.60.....	\$ 312.80	
Soil Samples: Acme Labs Preparation (SS80): 384 @ \$2.00.....	\$ 768.00	
Acme Labs 36 element ICP (1DX1): 384 @ \$13.39.....	\$ 5141.76	
Acme Labs Fire Assay for Gold (3B01): 384 @ \$13.60.....	\$ 5222.40	
	<b>Total</b>	<b>\$ 11,893.69</b>

**Transportation**

Mid-size Vehicle (Driving Force – Whitehorse).....	9 days @ \$75/day.....	\$ 675.00
Pick-up Truck (CJL Truck).....	17 days @ \$75/day + 1160 km @ \$0.25/km.....	\$ 2465.00
Fuel for Vehicles.....		\$ 300.00
Flights (YVR – YXY Return).....		\$ 400.00
	<b>Total</b>	<b>\$ 3840.00</b>

**Consumables, Field Equipment, Shipping, Miscellaneous**

Chainsaws, Sample Bags, Flagging, Pickets, Radios, etc.....	<b>\$ 2000.00</b>
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**Report Writing**

J. Norris (Report Writing).....	3 days @ \$550/day.....	\$ 1650.00
G. Dawson (Editing).....	1 day @ \$750/day.....	\$ 750.00
A. Jacobs (Map Generation).....	20 hours @ \$50/hour.....	\$ 1000.00
	<b>Total</b>	<b>\$ 3400.00</b>

**Phase 2 Subtotal \$ 87,912.09**

**Grand Total \$122,948.00**



## QUALIFICATIONS

I, John Gregory Dawson, do hereby declare that:

1. I am currently acting as Vice President Exploration for Colorado Resources Ltd. of 110 – 2300 Carrington Road, West Kelowna, British Columbia.
2. I graduated with a Bachelor Science degree from the University of British Columbia in 1987 and a Master of Science degree from Queens' University in 1991.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration Number 19882.
4. I have worked as a geologist for a total of 25 years since graduation from University, and prior to graduation, as a student and or geo-technician for a period of 11 additional years.
5. I have read the definition of "Qualified Person" set out in National Instrument 43-101("NI 43-101") and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101.
6. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
7. I am not independent of the issuer applying all tests in Section 1.5 of NI 43-101 in that I am a Contractor of Colorado Resources Ltd. and hold share options in the Company.

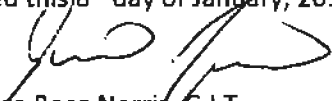
Dated this 8<sup>th</sup> day of January 2013

John Gregory Dawson, P. Geo.

I, Jessica Rose Norris, do hereby declare that:

1. I am currently acting as Project Geologist for Colorado Resources Ltd. of 110 – 2300 Carrington Road, West Kelowna, British Columbia.
2. I graduated with a Bachelor Science degree from the University of Alberta in 2006 and a Master of Science degree from the University of British Columbia in 2012.
3. I am a Geologist in Training with the Association of Professional Engineers and Geoscientists of Alberta, member #80247.
4. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
5. I am not independent of the issuer applying all tests in Section 1.5 of NI 43-101 in that I am an Employee of Colorado Resources Ltd. and hold share options in the Company.

Dated this 8<sup>th</sup> day of January, 2013



Jessica Rose Norris, G.I.T.

# **Appendix 1**

Figures 1-17



**NORTH ROK  
PROPERTY**

Figure 1

Kilometers



130°W

125°W

120°W

115°W

48°N

50°N

52°N

54°N

56°N

58°N

60°N

48°N

50°N

52°N

54°N

56°N

58°N

60°N

62°N

135°W

130°W

125°W

120°W

115°W

Whitehorse

Yukon

Atlin

Dease Lake

Fort Nelson

Stewart

Fort St John

Dawson Creek

MacKenzie

Prince Rupert

Smithers

British  
Columbia

Alberta

Bella Coola

Williams Lake

Calgary

Kamloops

Merritt

Kelowna

Princeton

Nanaimo

Vancouver

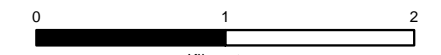
Victoria

Washington



**Colorado Resources Ltd.**

**North Rok - Claims Map  
Figure 2**











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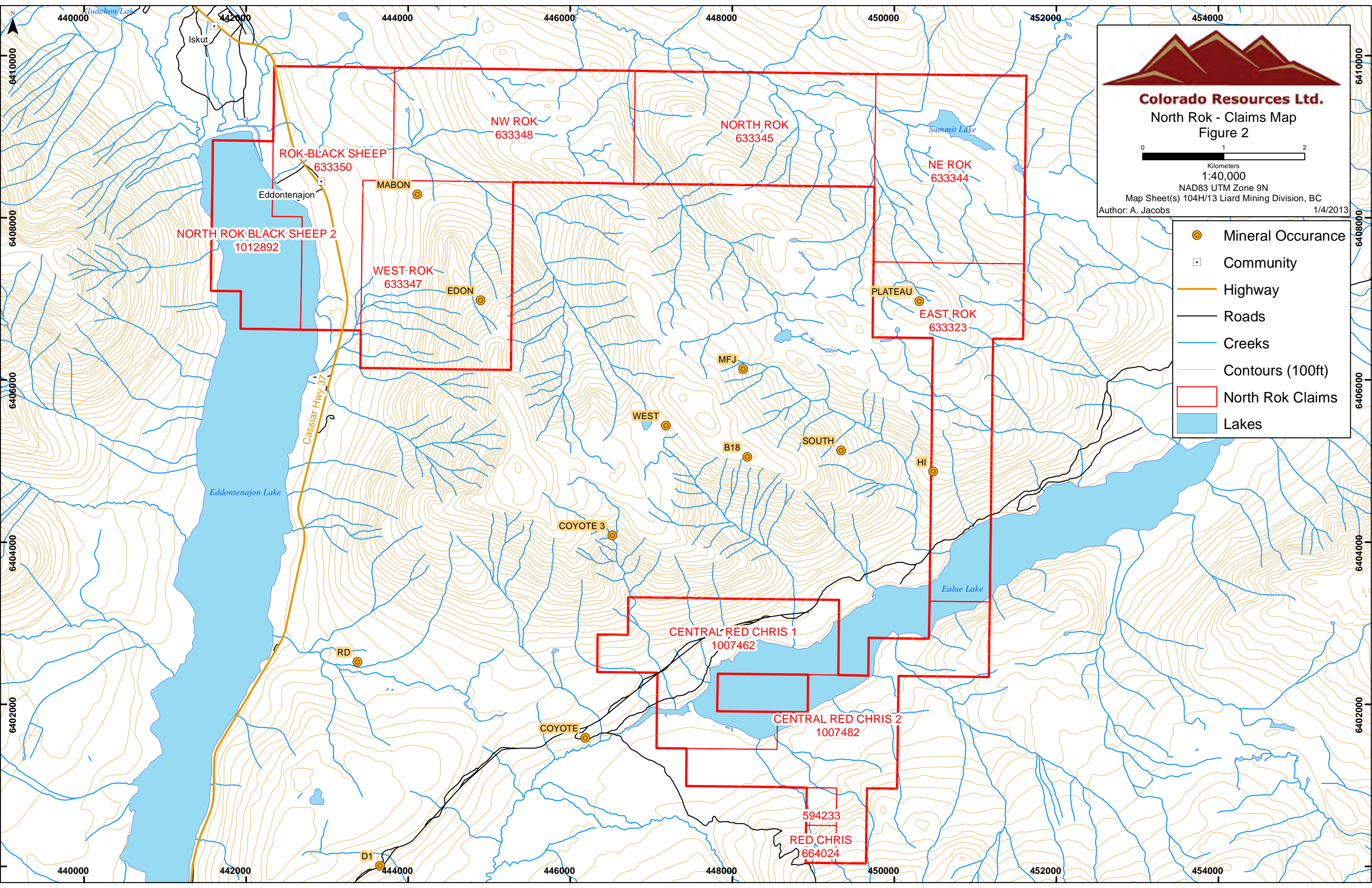
NAD83 UTM Zone 9N


Map Sheet(s) 104H/13 Liard Mining Division, BC

Author: A. Jacobs

1/4/2013









-  Mineral Occurance
-  Community
-  Highway
-  Roads
-  Creeks
-  Contours (100ft)
-  North Rok Claims
-  Lakes



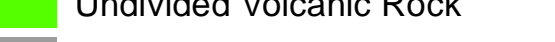








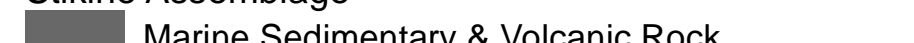
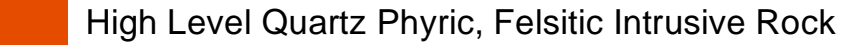

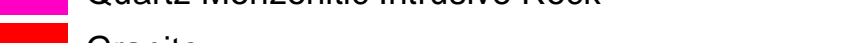

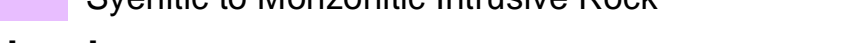




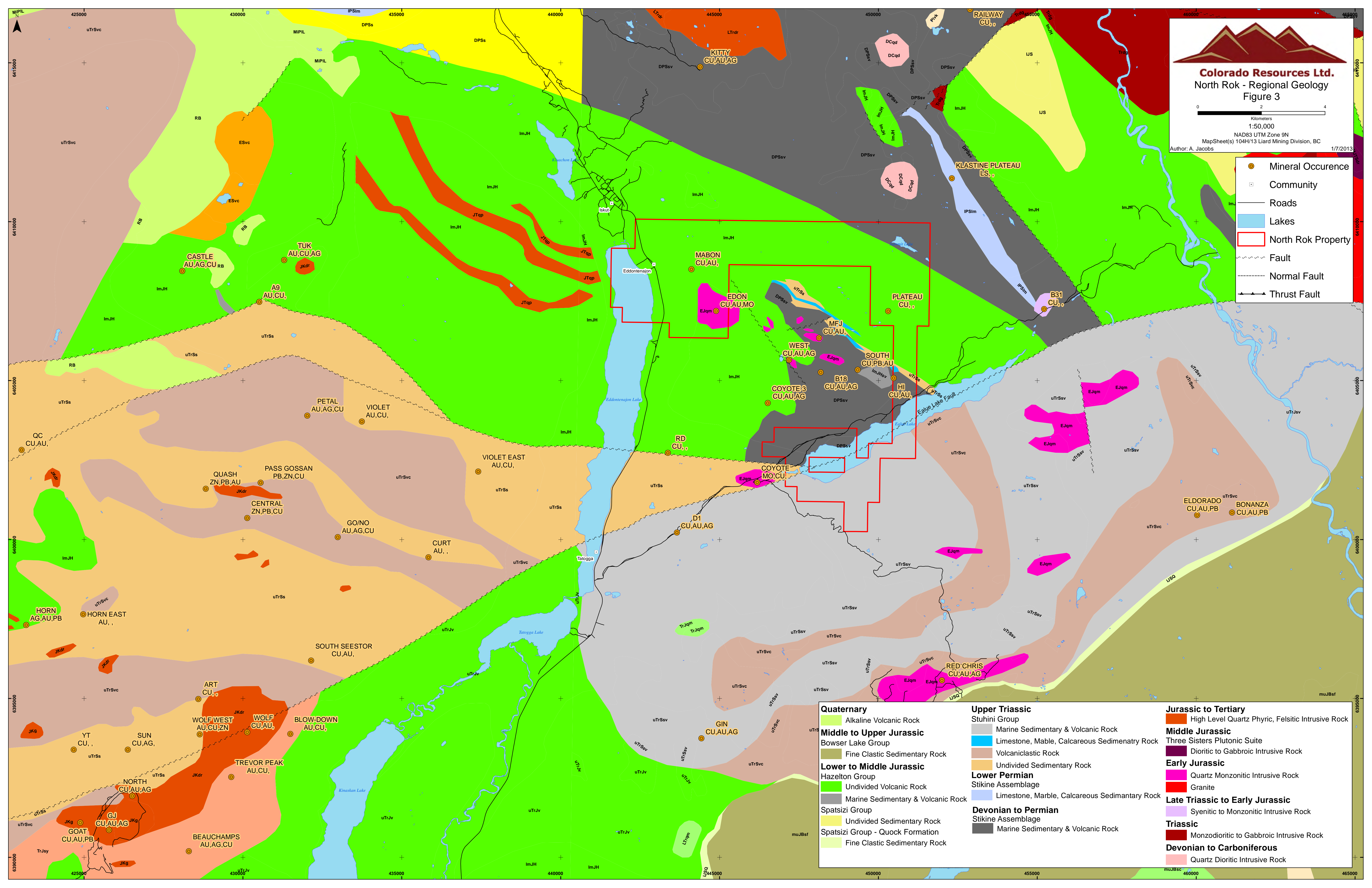


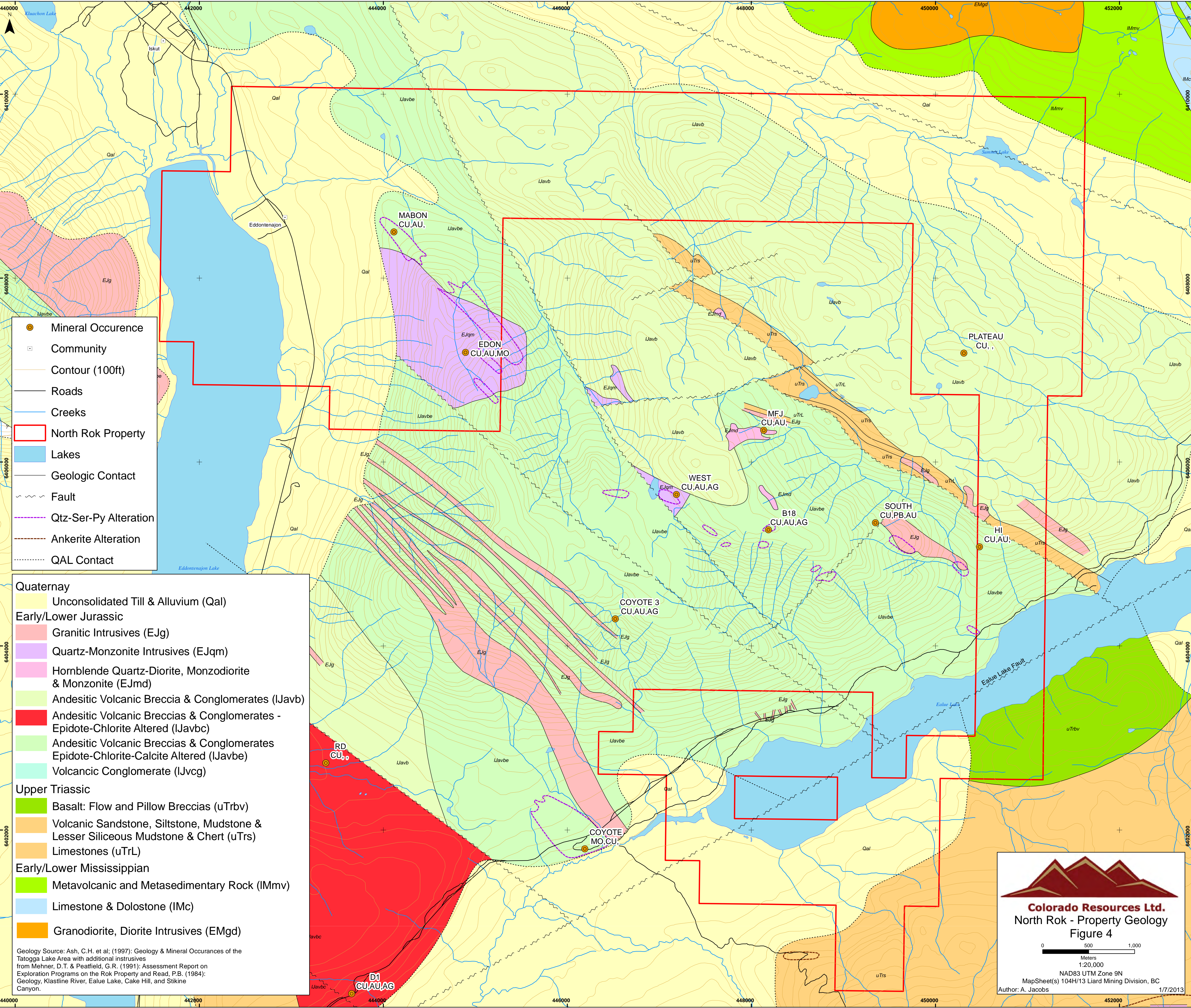
**Colorado Resources Ltd.**  
North Rok - Regional Geology  
Figure 3

0 2 4  
Kilometers  
1:50,000  
NAD83 UTM Zone 9N  
MapSheet(s) 104H/13 Liard Mining Division, BC  
Author: A. Jacobs 1/7/2013

-  Mineral Occurrence
-  Community
-  Roads
-  Lakes
-  North Rok Property
-  Fault
-  Normal Fault
-  Thrust Fault

<p><b>Quaternary</b></p> <ul style="list-style-type: none"> <li> Alkaline Volcanic Rock</li> </ul> <p><b>Middle to Upper Jurassic</b> Bowser Lake Group</p> <ul style="list-style-type: none"> <li> Fine Clastic Sedimentary Rock</li> </ul> <p><b>Lower to Middle Jurassic</b> Hazelton Group</p> <ul style="list-style-type: none"> <li> Undivided Volcanic Rock</li> <li> Marine Sedimentary &amp; Volcanic Rock</li> </ul> <p>Spatsizi Group</p> <ul style="list-style-type: none"> <li> Undivided Sedimentary Rock</li> </ul> <p>Spatsizi Group - Quock Formation</p> <ul style="list-style-type: none"> <li> Fine Clastic Sedimentary Rock</li> </ul>	<p><b>Upper Triassic</b> Stuhini Group</p> <ul style="list-style-type: none"> <li> Marine Sedimentary &amp; Volcanic Rock</li> <li> Limestone, Marble, Calcareous Sedimentary Rock</li> <li> Volcaniclastic Rock</li> <li> Undivided Sedimentary Rock</li> </ul> <p><b>Lower Permian</b> Stikine Assemblage</p> <ul style="list-style-type: none"> <li> Limestone, Marble, Calcareous Sedimentary Rock</li> </ul> <p><b>Devonian to Permian</b> Stikine Assemblage</p> <ul style="list-style-type: none"> <li> Marine Sedimentary &amp; Volcanic Rock</li> </ul>	<p><b>Jurassic to Tertiary</b></p> <ul style="list-style-type: none"> <li> High Level Quartz Phyric, Felsitic Intrusive Rock</li> </ul> <p><b>Middle Jurassic</b> Three Sisters Plutonic Suite</p> <ul style="list-style-type: none"> <li> Dioritic to Gabbroic Intrusive Rock</li> </ul> <p><b>Early Jurassic</b></p> <ul style="list-style-type: none"> <li> Quartz Monzonitic Intrusive Rock</li> <li> Granite</li> </ul> <p><b>Late Triassic to Early Jurassic</b></p> <ul style="list-style-type: none"> <li> Syenitic to Monzonitic Intrusive Rock</li> </ul> <p><b>Triassic</b></p> <ul style="list-style-type: none"> <li> Monzodioritic to Gabbroic Intrusive Rock</li> </ul> <p><b>Devonian to Carboniferous</b></p> <ul style="list-style-type: none"> <li> Quartz Dioritic Intrusive Rock</li> </ul>
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- Mineral Occurrence
- Community
- Contour (100ft)
- Roads
- Creeks
- North Rok Property
- Lakes
- Geologic Contact
- Fault
- Qtz-Ser-Py Alteration
- Ankerite Alteration
- QAL Contact






- Quaternary**
- Unconsolidated Till & Alluvium (Qal)
- Early/Lower Jurassic**
- Granitic Intrusives (EJg)
  - Quartz-Monzonite Intrusives (EJqm)
  - Hornblende Quartz-Diorite, Monzodiorite & Monzonite (EJmd)
  - Andesitic Volcanic Breccia & Conglomerates (Ijavb)
  - Andesitic Volcanic Breccias & Conglomerates - Epidote-Chlorite Altered (Ijavbc)
  - Andesitic Volcanic Breccias & Conglomerates Epidote-Chlorite-Calcite Altered (Ijavbe)
  - Volcanic Conglomerate (Ijvcg)
- Upper Triassic**
- Basalt: Flow and Pillow Breccias (uTrbv)
  - Volcanic Sandstone, Siltstone, Mudstone & Lesser Siliceous Mudstone & Chert (uTrs)
  - Limestones (uTrL)
- Early/Lower Mississippian**
- Metavolcanic and Metasedimentary Rock (IMmv)
  - Limestone & Dolostone (IMc)
  - Granodiorite, Diorite Intrusives (EMgd)

Geology Source: Ash, C.H. et al; (1997): Geology & Mineral Occurances of the Tatogga Lake Area with additional intrusives from Mehner, D.T. & Peatfield, G.R. (1991): Assessment Report on Exploration Programs on the Rok Property and Read, P.B. (1984): Geology, Klastine River, Ealue Lake, Cake Hill, and Stikine Canyon.



**Colorado Resources Ltd.**  
 North Rok - Property Geology  
 Figure 4

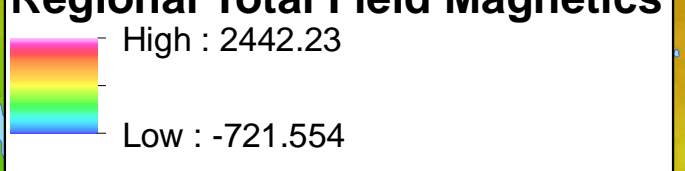
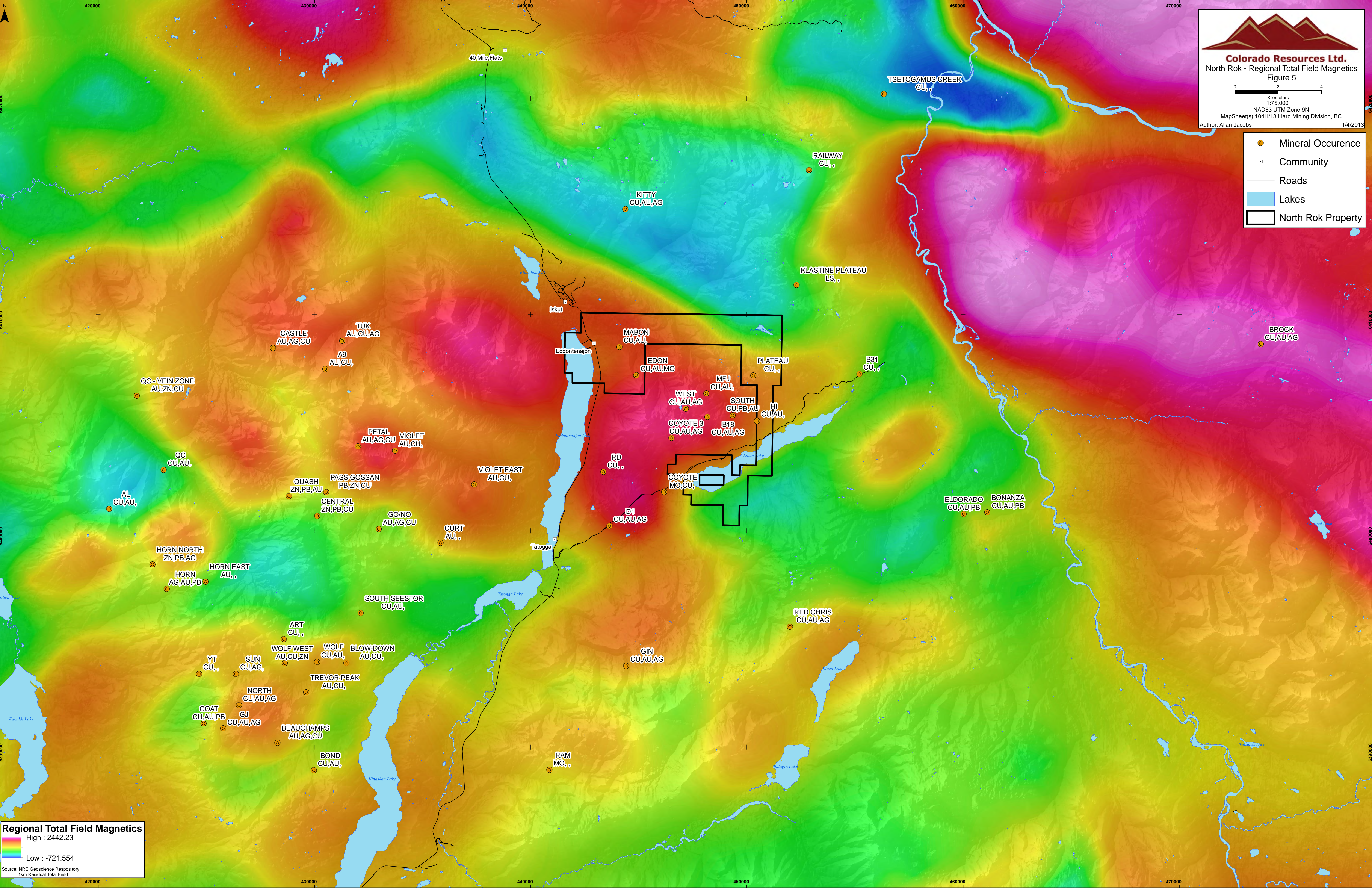
0 500 1,000  
 Meters  
 1:20,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/7/2013

-  Mineral Occurrence
-  Community
-  Roads
-  Lakes
-  North Rok Property

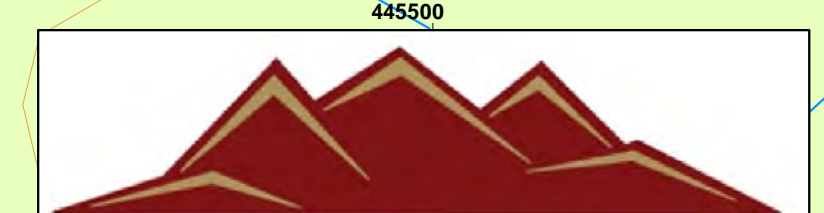
**Regional Total Field Magnetics**

High : 2442.23  
 Low : -721.554

Source: NRC Geoscience Repository  
 1km Residual Total Field

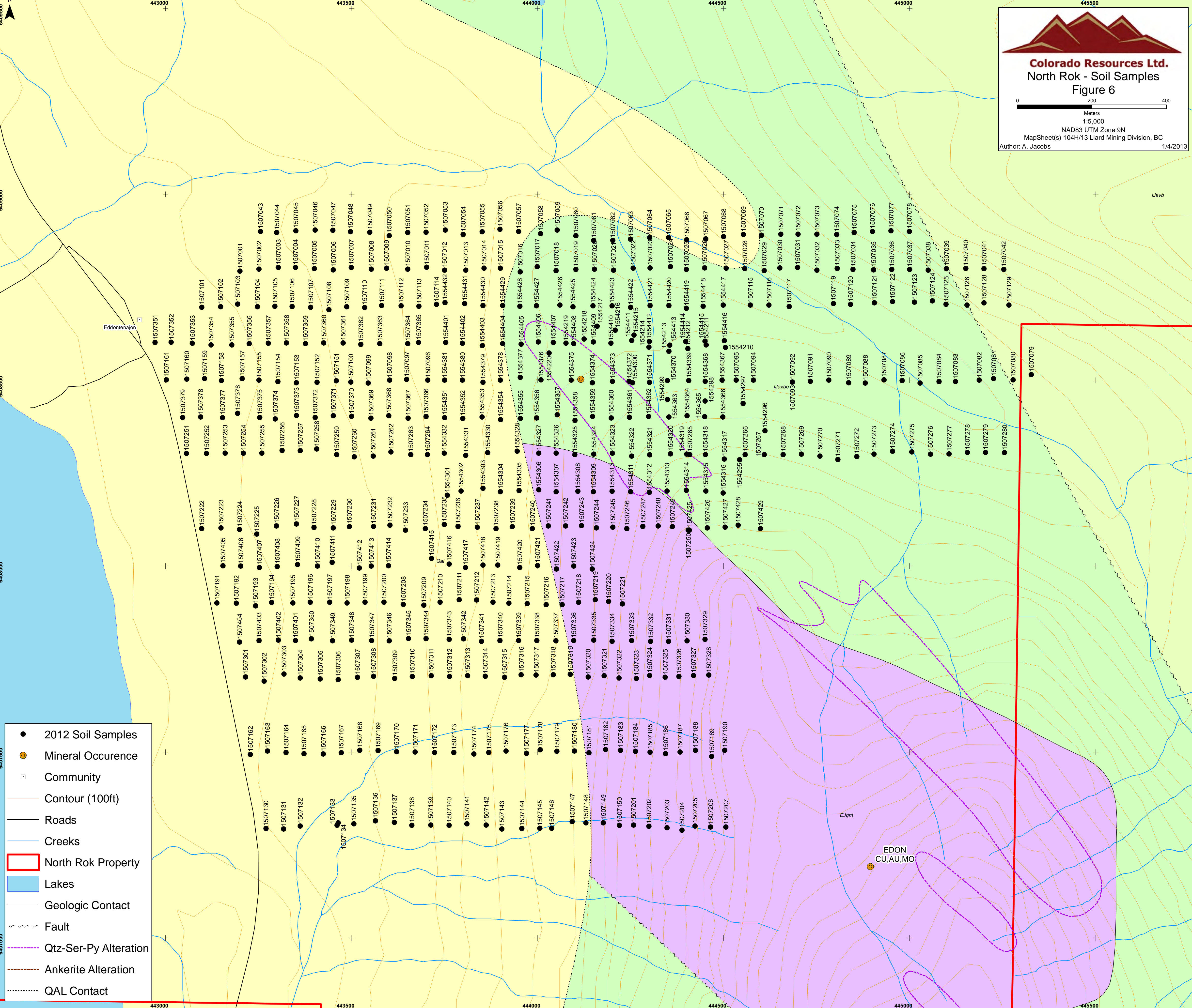





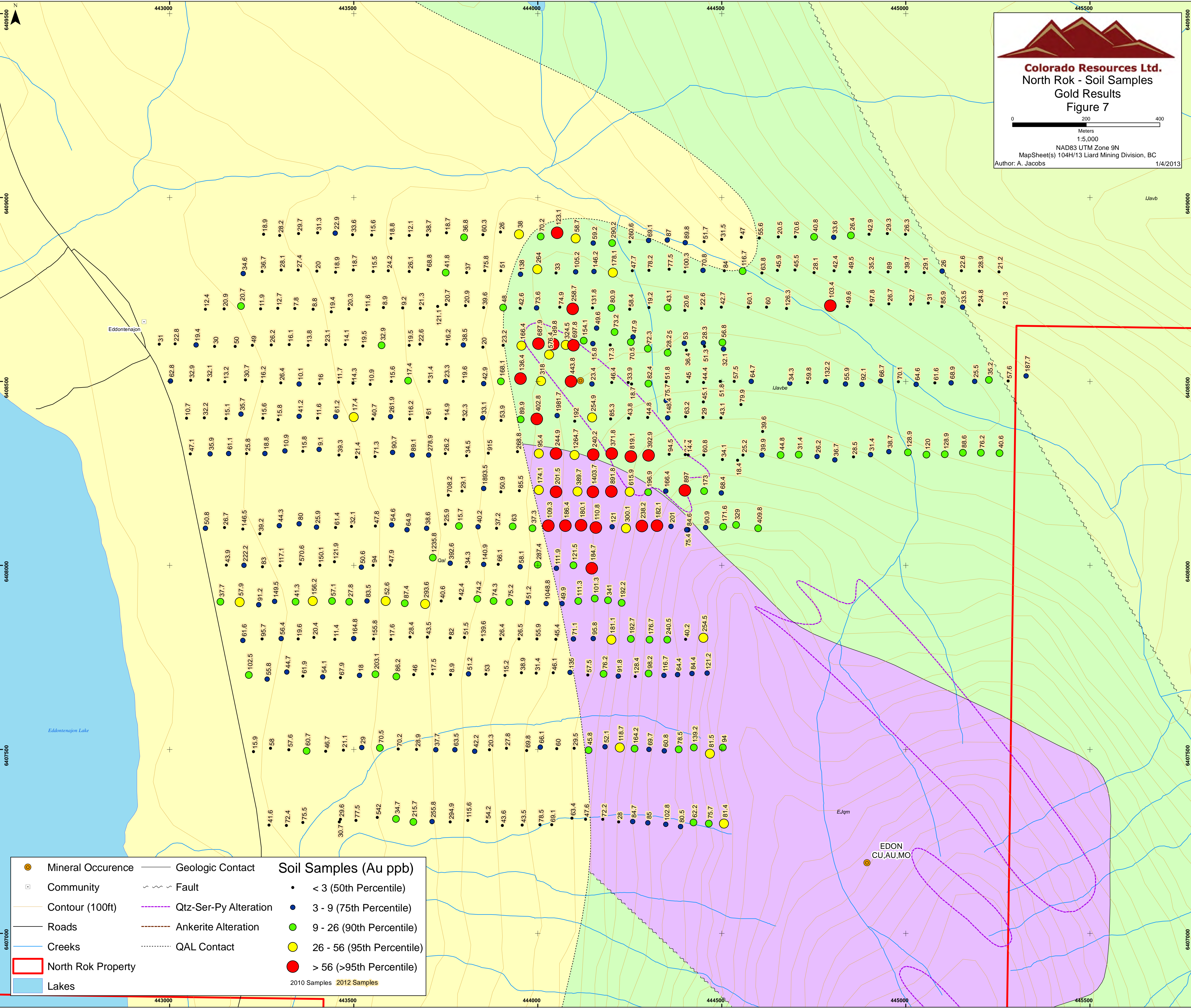


**Colorado Resources Ltd.**  
**North Rok - Soil Samples**  
**Figure 6**

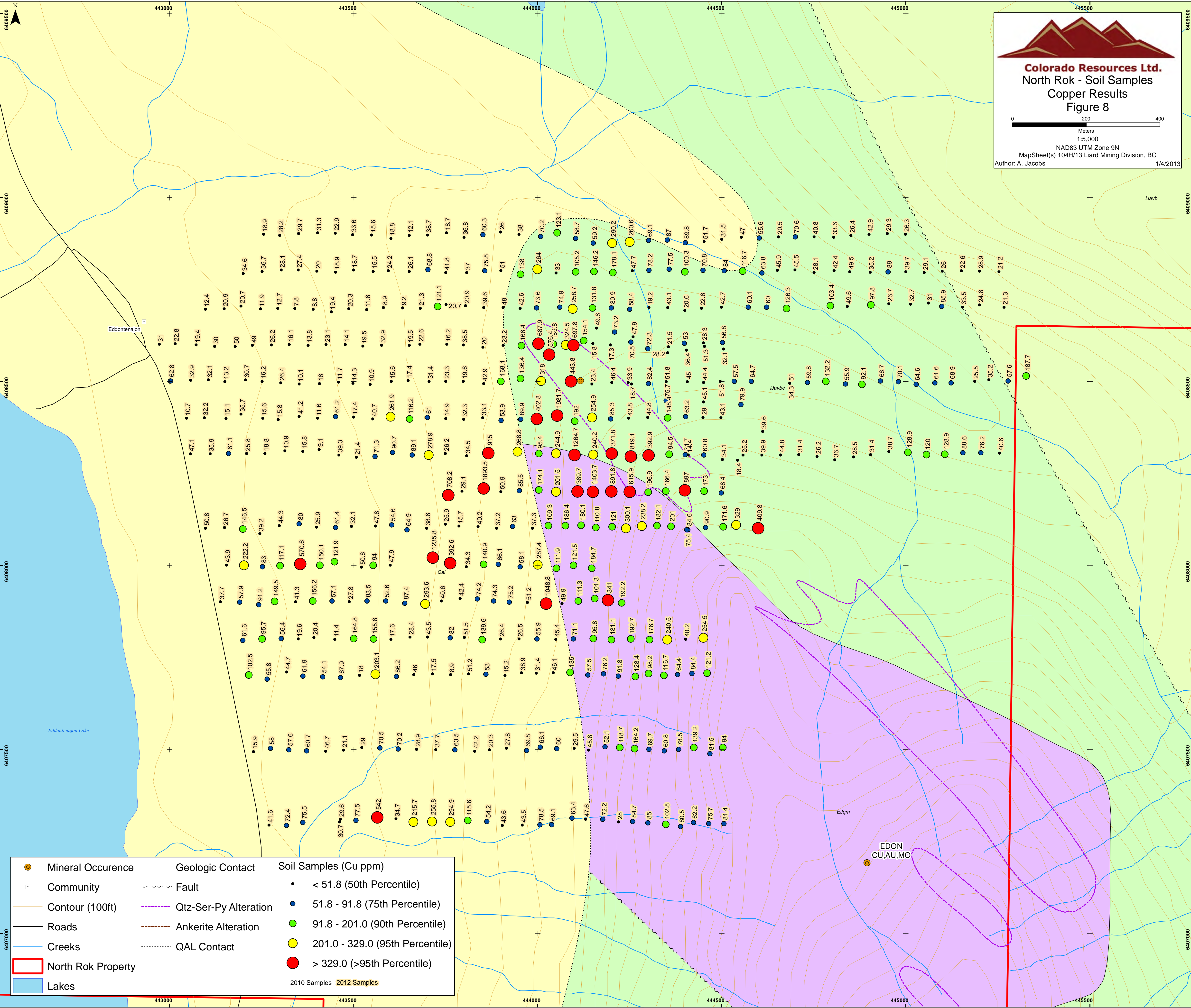
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 Meters  
 1:5,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/4/2013




- 2012 Soil Samples
- Mineral Occurrence
- Community
- Contour (100ft)
- Roads
- Creeks
- ▭ North Rok Property
- ▭ Lakes
- Geologic Contact
- ~ Fault
- Qtz-Ser-Py Alteration
- Ankerite Alteration
- QAL Contact



	Mineral Occurrence		Geologic Contact	<b>Soil Samples (Au ppb)</b>	
	Community		Fault		
	Contour (100ft)		Qtz-Ser-Py Alteration		
	Roads		Ankerite Alteration		
	Creeks		QAL Contact		
	North Rok Property				< 3 (50th Percentile)
	Lakes				3 - 9 (75th Percentile)
					9 - 26 (90th Percentile)
					26 - 56 (95th Percentile)
					> 56 (>95th Percentile)
					2010 Samples
					2012 Samples

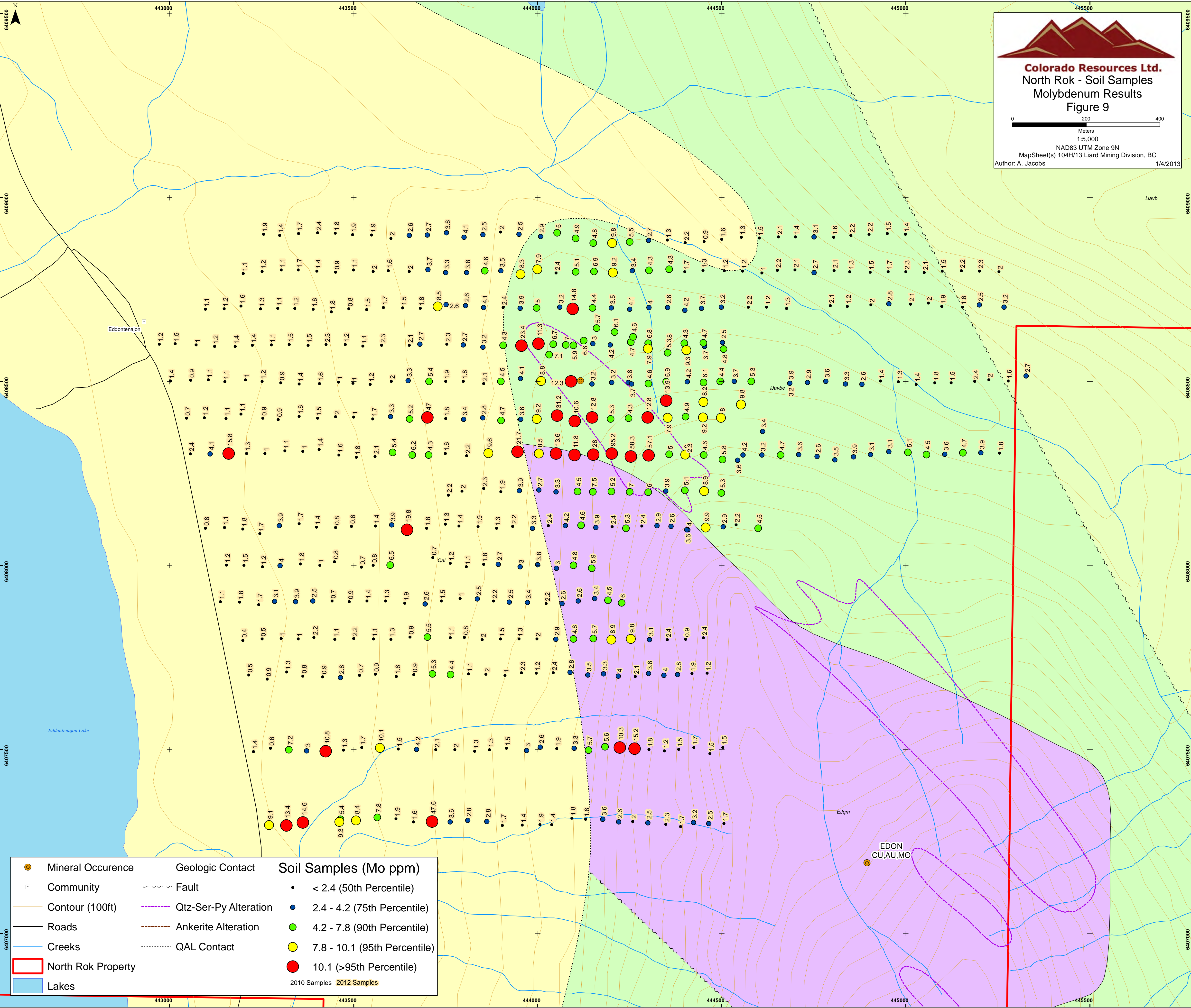


	Mineral Occurrence		Geologic Contact	<b>Soil Samples (Cu ppm)</b>	
	Community		Fault		
	Contour (100ft)		Qtz-Ser-Py Alteration		
	Roads		Ankerite Alteration		
	Creeks		QAL Contact		
	North Rok Property				< 51.8 (50th Percentile)
	Lakes				51.8 - 91.8 (75th Percentile)
					91.8 - 201.0 (90th Percentile)
					201.0 - 329.0 (95th Percentile)
					> 329.0 (>95th Percentile)
					2010 Samples
					2012 Samples




**Colorado Resources Ltd.**  
 North Rok - Soil Samples  
 Molybdenum Results  
 Figure 9

0 200 400  
 Meters  
 1:5,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/4/2013

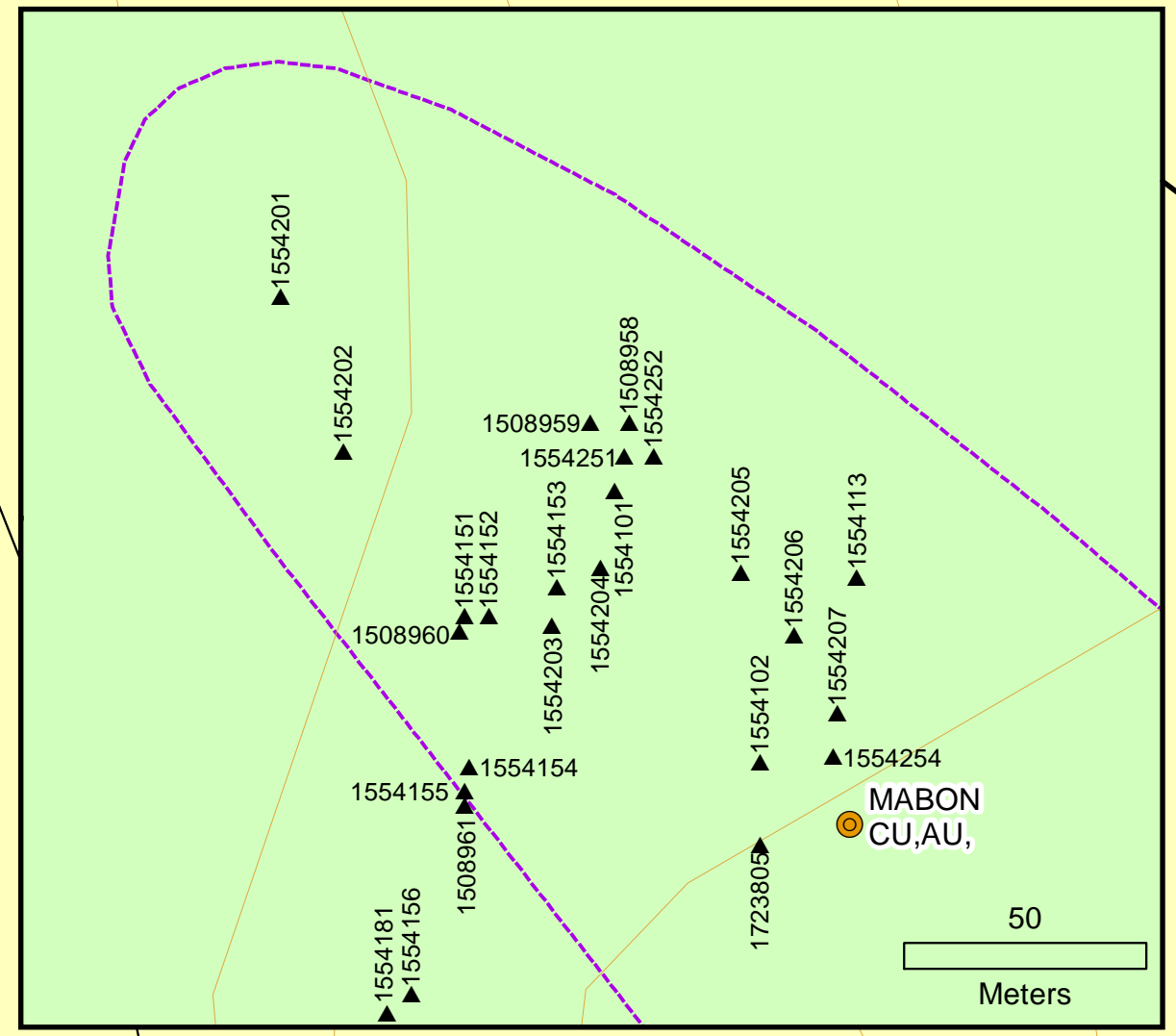


Mineral Occurrence	Geologic Contact	<b>Soil Samples (Mo ppm)</b>
Community	Fault	
Contour (100ft)	Qtz-Ser-Py Alteration	
Roads	Ankerite Alteration	
Creeks	QAL Contact	
North Rok Property		< 2.4 (50th Percentile)
Lakes		2.4 - 4.2 (75th Percentile)
		4.2 - 7.8 (90th Percentile)
		7.8 - 10.1 (95th Percentile)
		10.1 (>95th Percentile)
		2010 Samples 2012 Samples



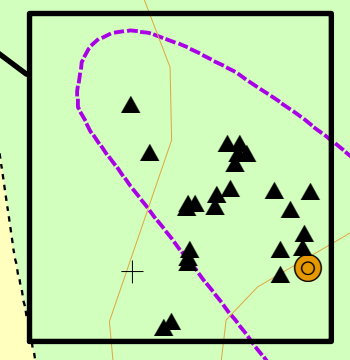
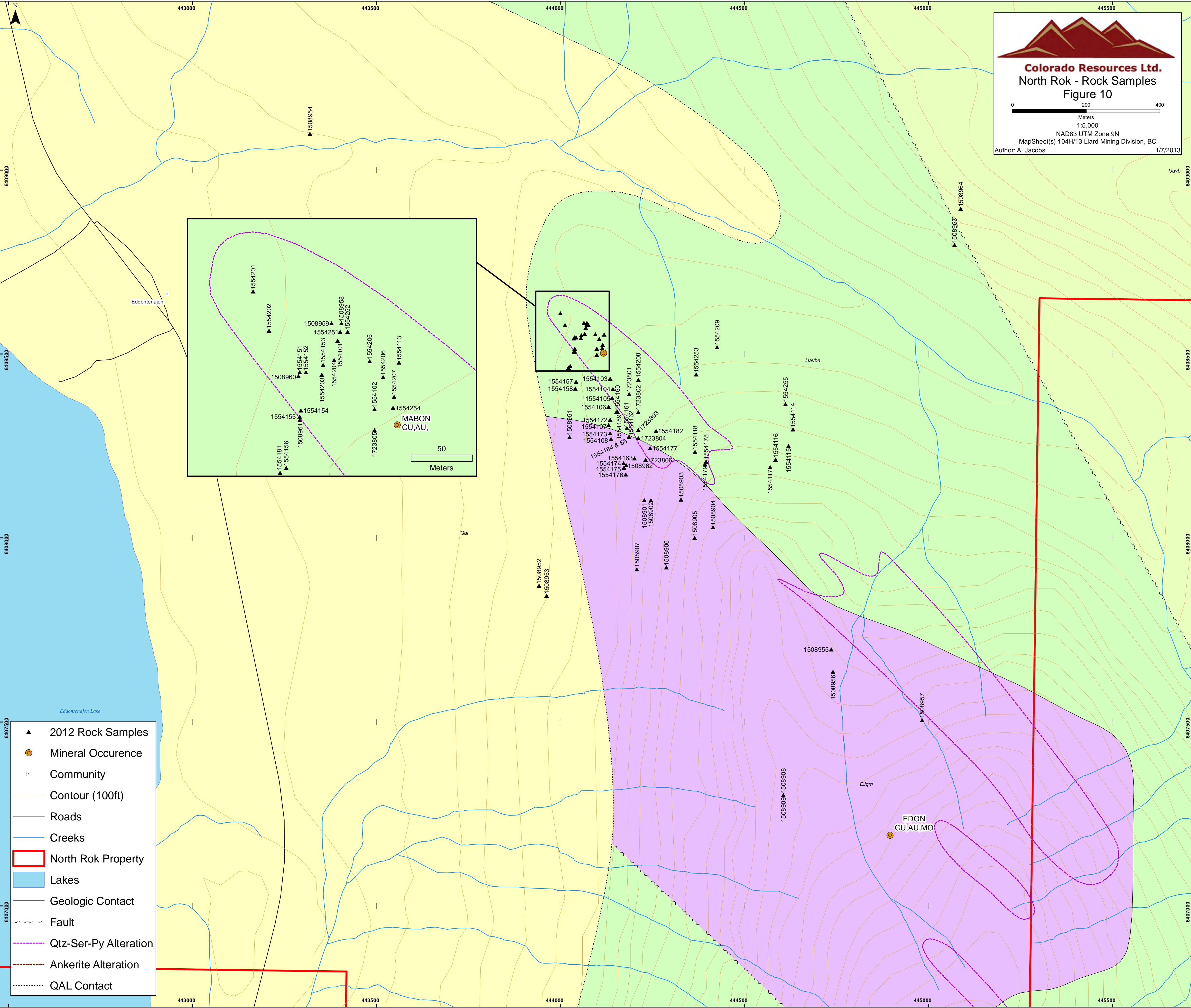
**Colorado Resources Ltd.**  
 North Rok - Rock Samples  
 Figure 10

0 200 400  
 Meters  
 1:5,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/7/2013

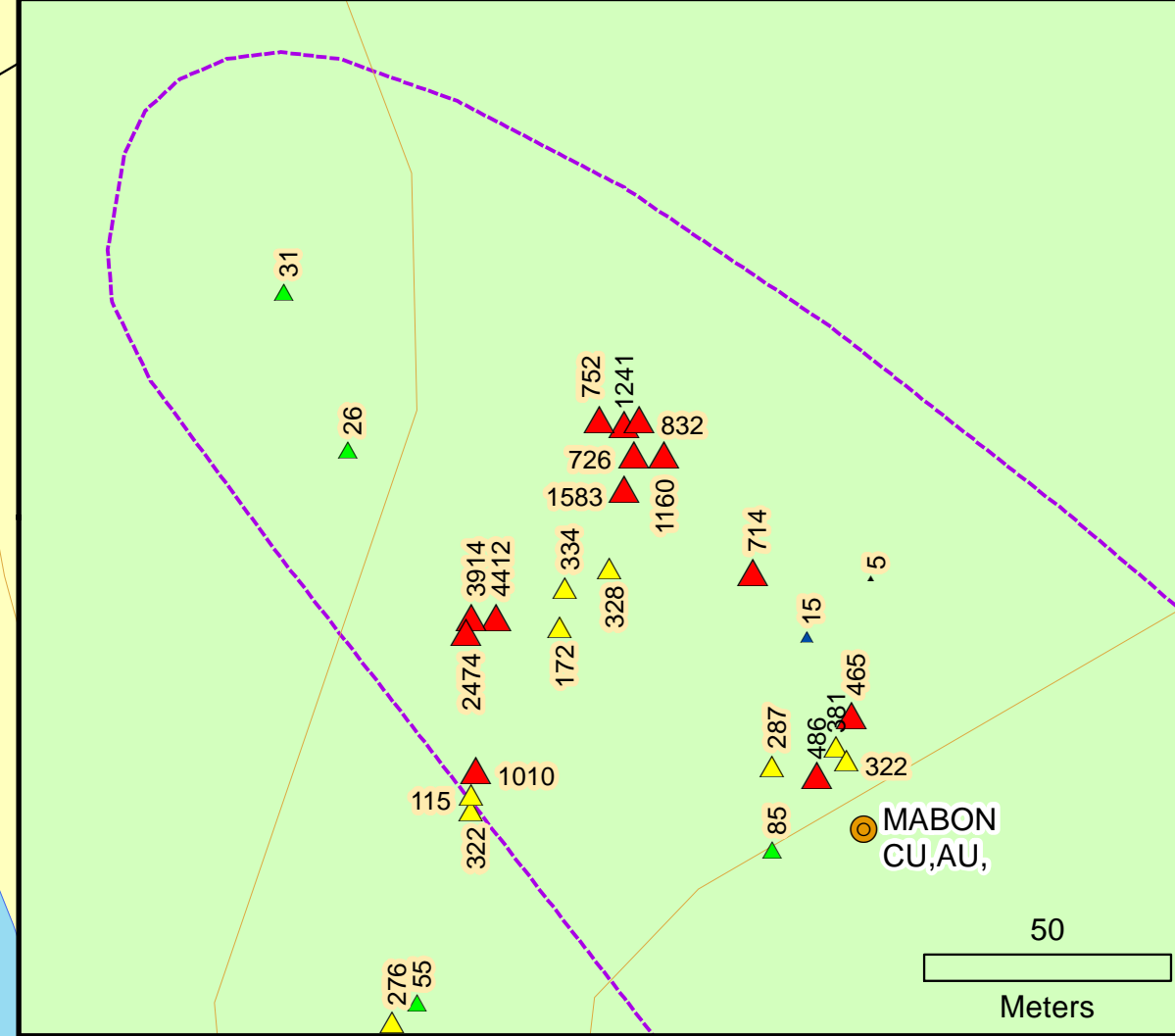


1554201  
 1554202  
 1508959  
 1554251  
 1508958  
 1554252  
 1554151  
 1554152  
 1508960  
 1554203  
 1554153  
 1554101  
 1554204  
 1554154  
 1554155  
 1508961  
 1554156  
 1554181  
 1554156  
 1723805  
 1554205  
 1554206  
 1554207  
 1554113  
 1554254  
**MABON**  
 CU,AU

50  
 Meters

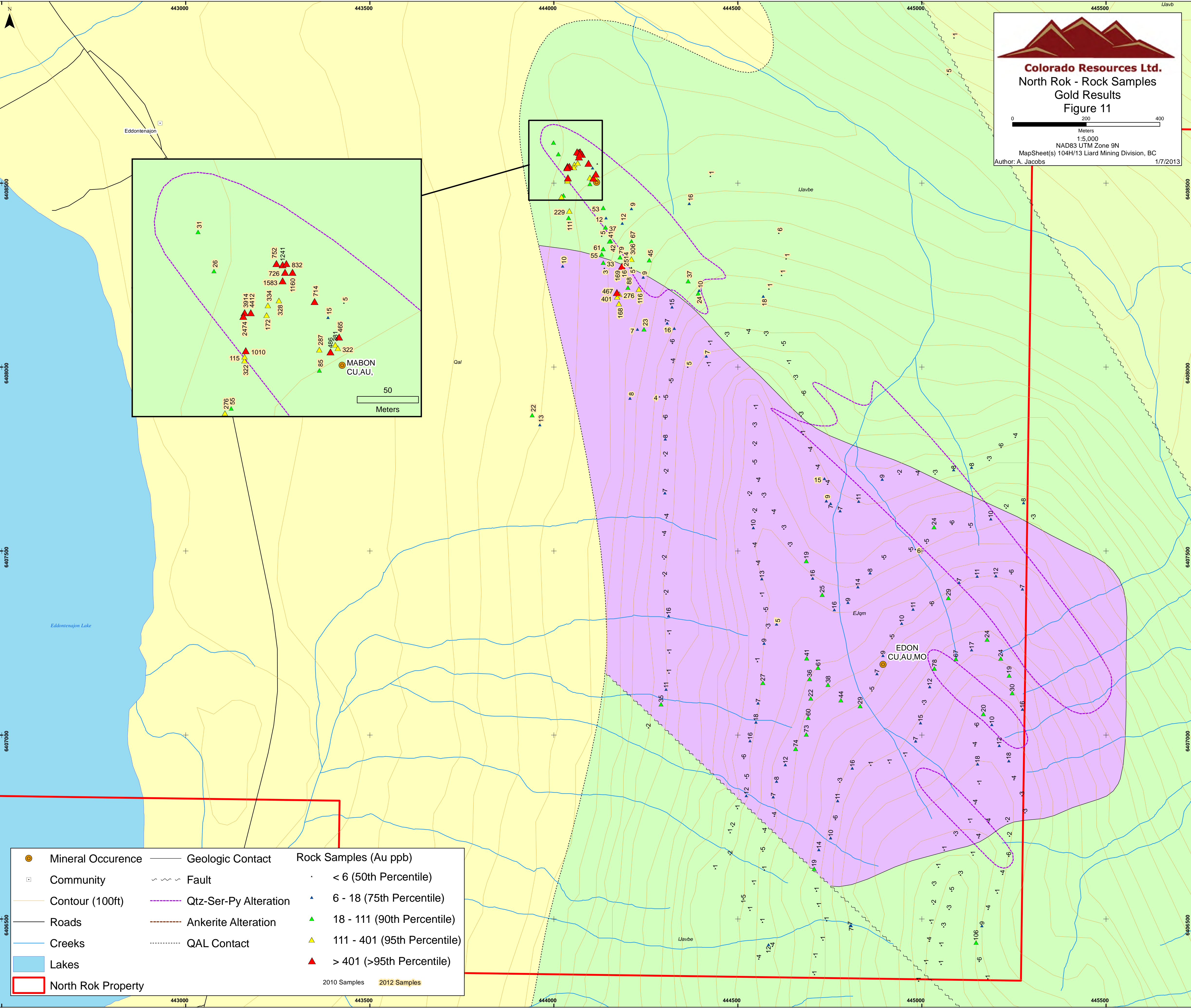



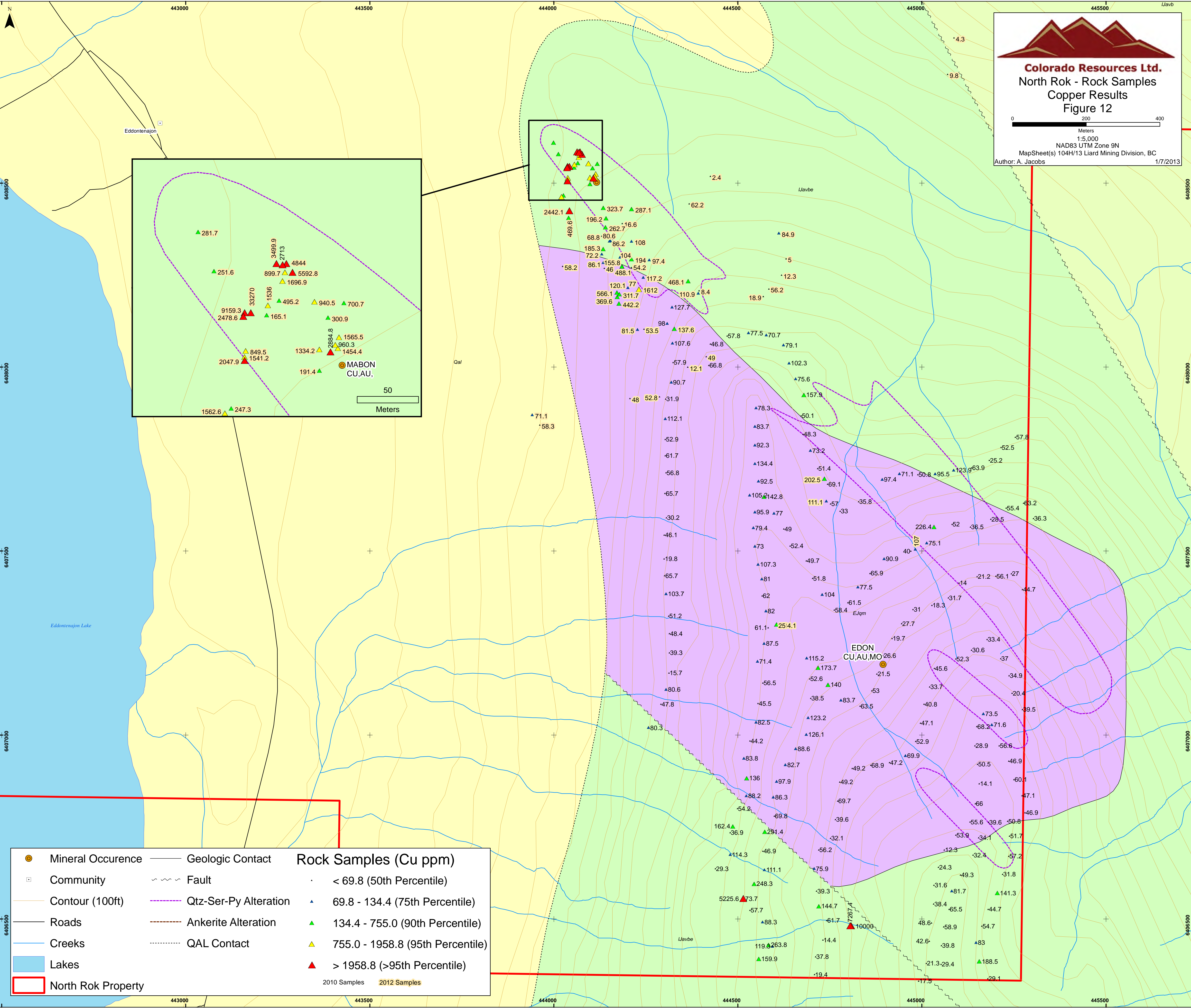
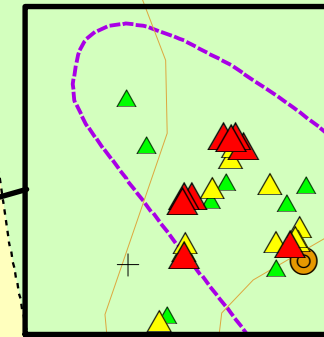
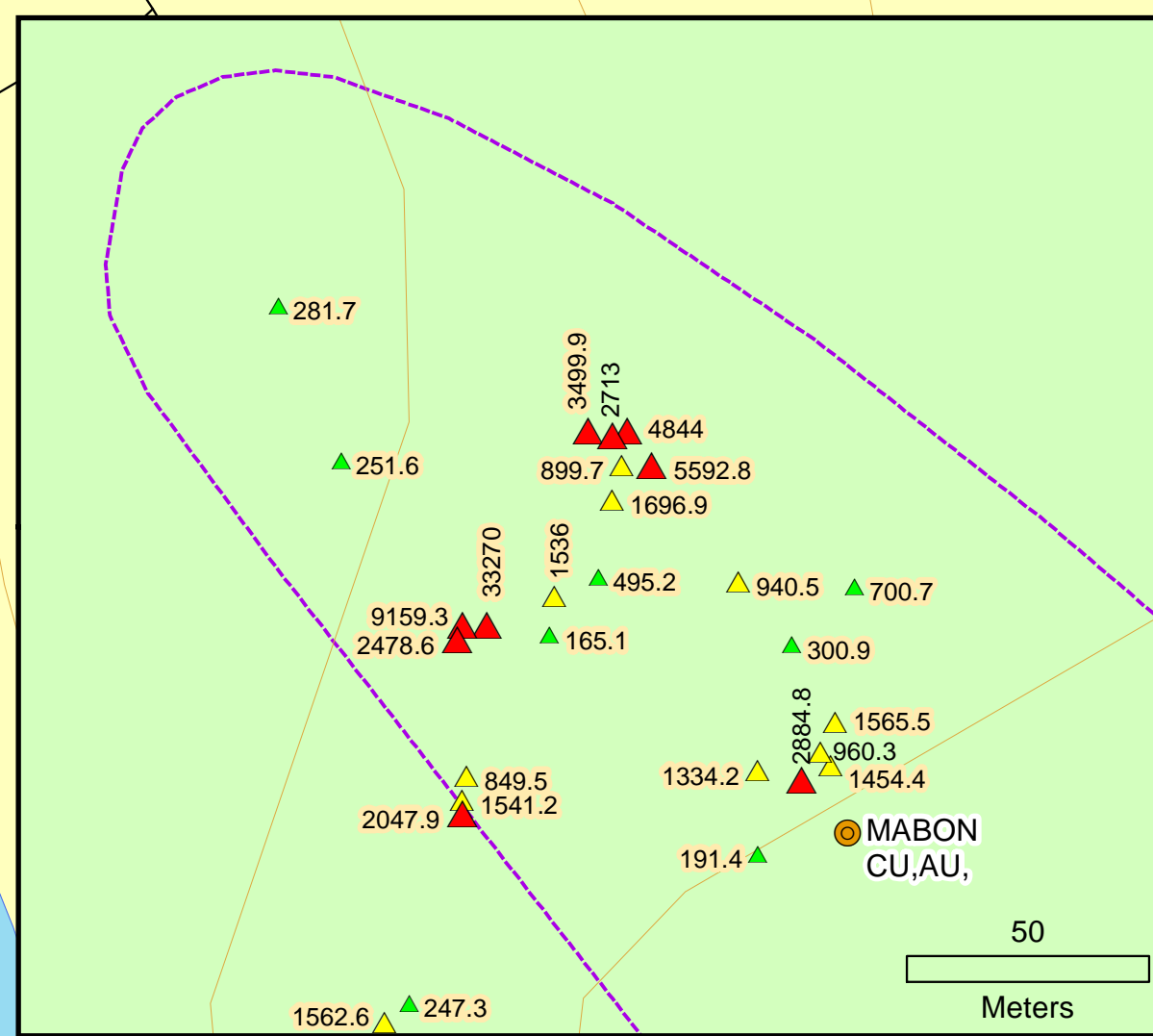
- ▲ 2012 Rock Samples
- Mineral Occurrence
- Community
- Contour (100ft)
- Roads
- Creeks
- ▭ North Rok Property
- ▭ Lakes
- Geologic Contact
- ~ ~ ~ Fault
- Qtz-Ser-Py Alteration
- Ankerite Alteration
- QAL Contact




Mineral Occurrence	Geologic Contact	<b>Rock Samples (Au ppb)</b>
Community	Fault	< 6 (50th Percentile)
Contour (100ft)	Qtz-Ser-Py Alteration	6 - 18 (75th Percentile)
Roads	Ankerite Alteration	18 - 111 (90th Percentile)
Creeks	QAL Contact	111 - 401 (95th Percentile)
Lakes		> 401 (>95th Percentile)
North Rok Property		

2010 Samples    2012 Samples



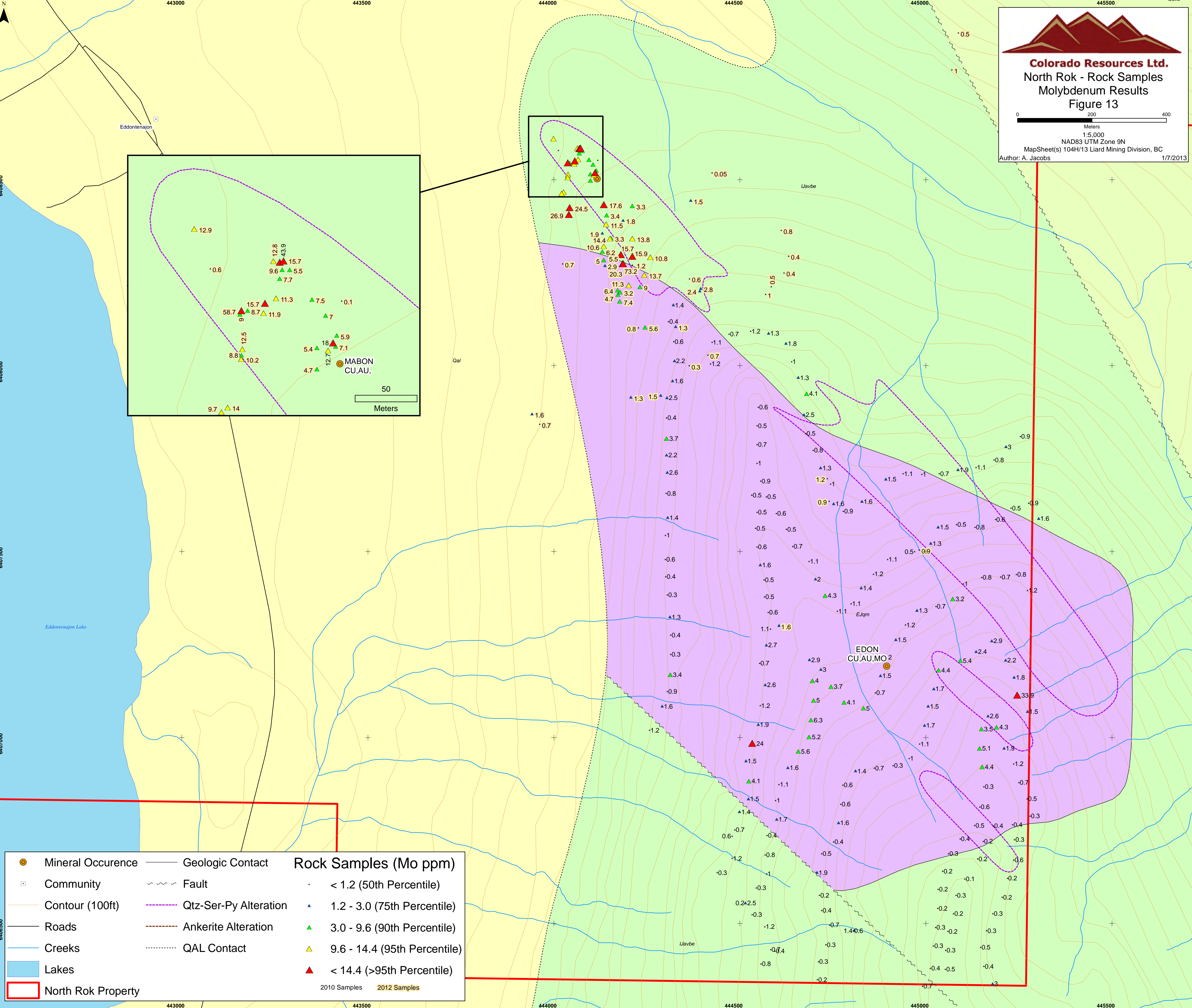
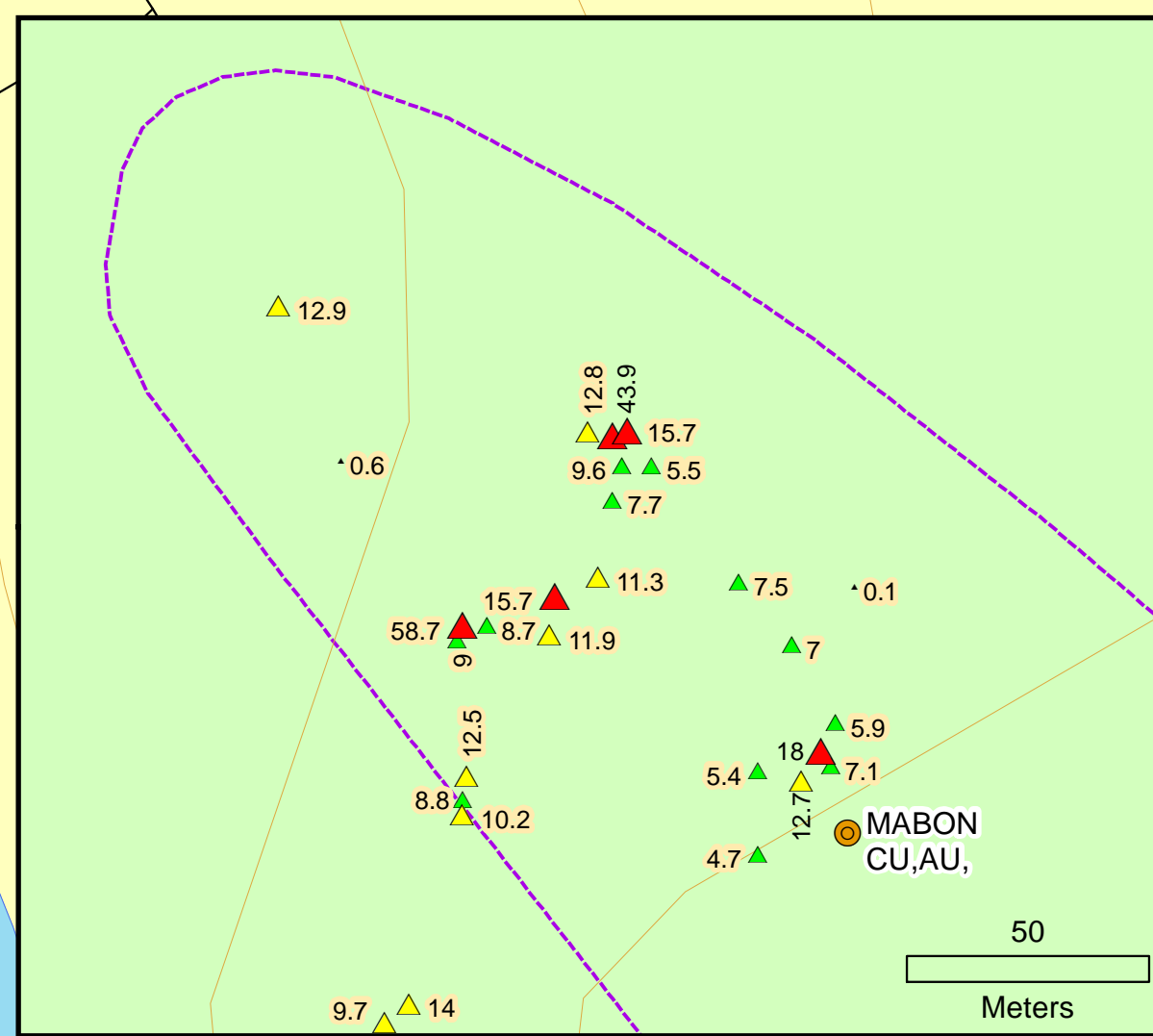


	Mineral Occurrence		Geologic Contact	<b>Rock Samples (Cu ppm)</b>	
	Community		Fault		
	Contour (100ft)		Qtz-Ser-Py Alteration		
	Roads		Ankerite Alteration		
	Creeks		QAL Contact		
	Lakes				< 69.8 (50th Percentile)
	North Rok Property				69.8 - 134.4 (75th Percentile)
					134.4 - 755.0 (90th Percentile)
					755.0 - 1958.8 (95th Percentile)
					> 1958.8 (>95th Percentile)
					2010 Samples
					2012 Samples



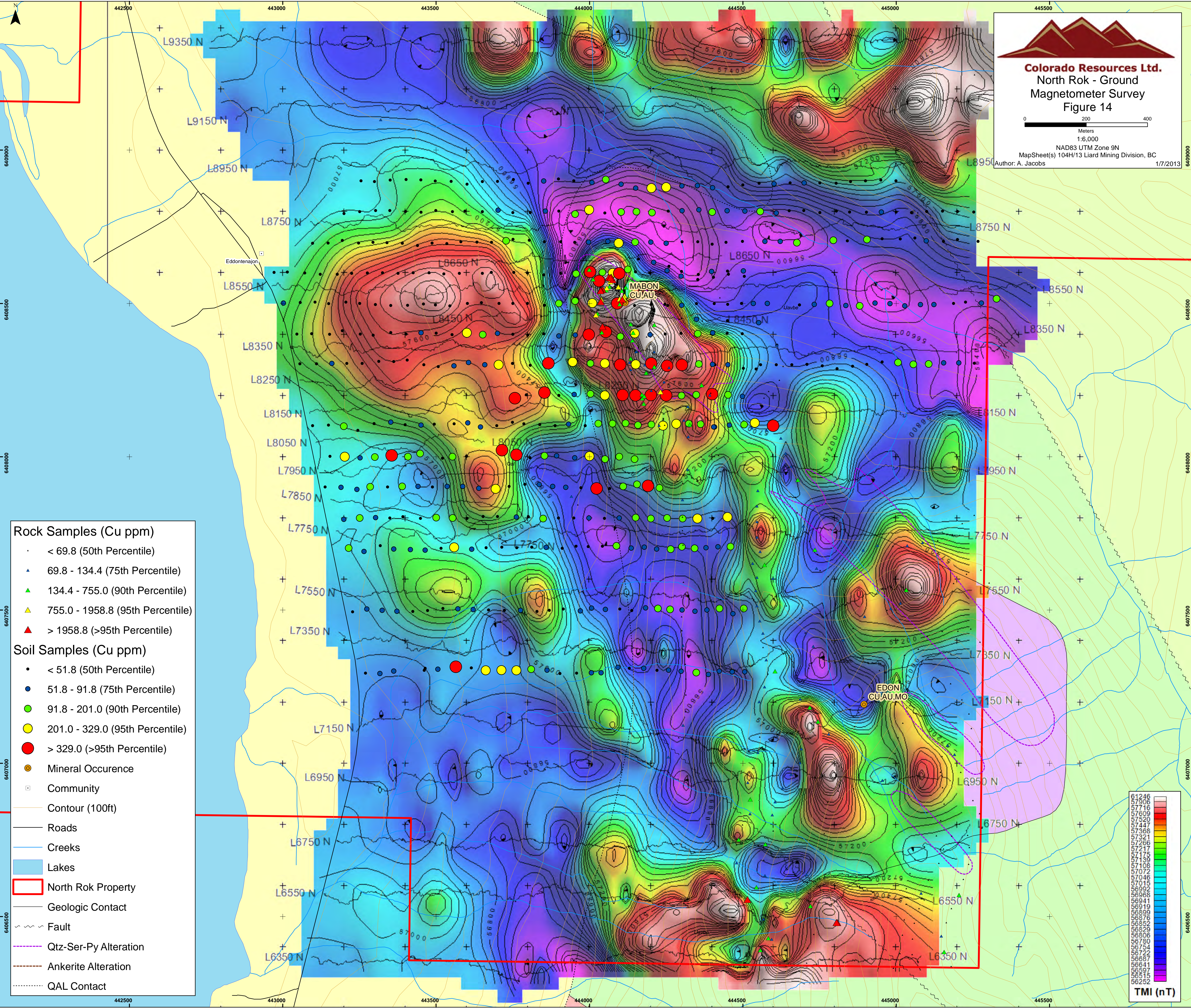
**Colorado Resources Ltd.**  
 North Rok - Rock Samples  
 Molybdenum Results  
 Figure 13

0 200 400  
 Meters  
 1:5,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/7/2013

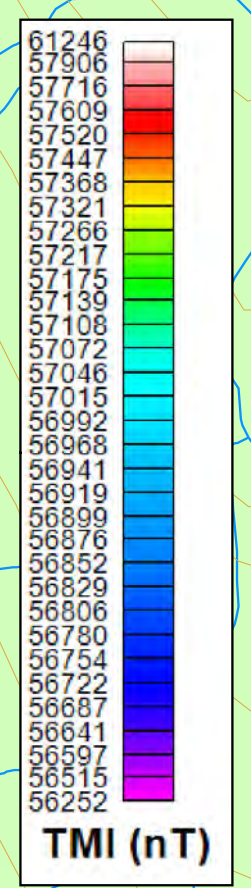


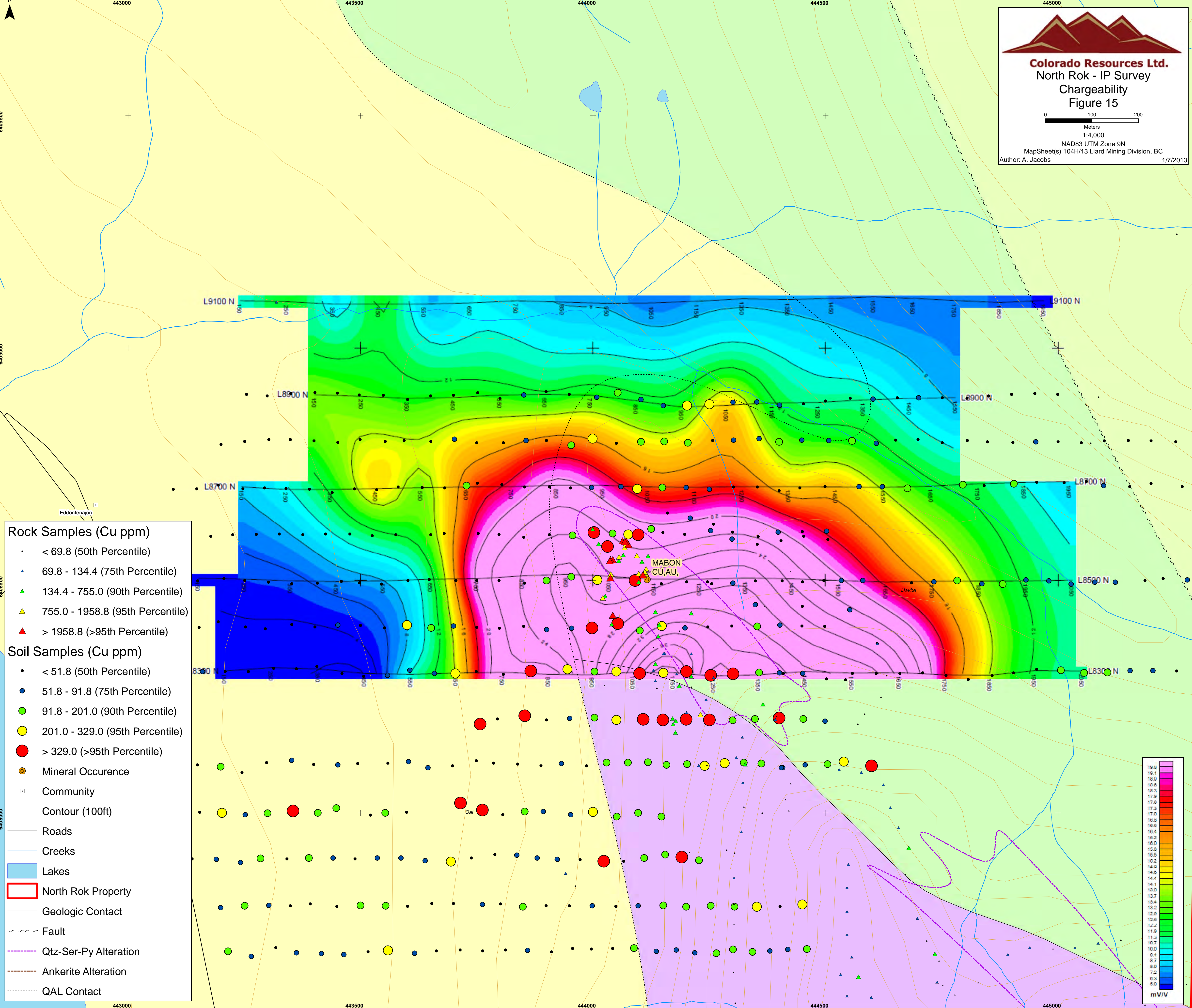
	Mineral Occurrence		Geologic Contact	<b>Rock Samples (Mo ppm)</b>	
	Community		Fault		< 1.2 (50th Percentile)
	Contour (100ft)		Qtz-Ser-Py Alteration		1.2 - 3.0 (75th Percentile)
	Roads		Ankerite Alteration		3.0 - 9.6 (90th Percentile)
	Creeks		QAL Contact		9.6 - 14.4 (95th Percentile)
	Lakes				< 14.4 (>95th Percentile)
	North Rok Property				2010 Samples
					2012 Samples



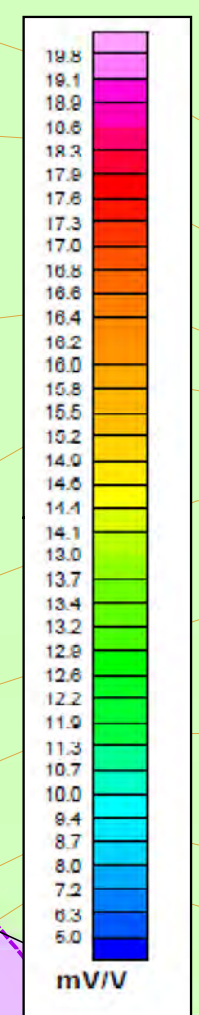



- Rock Samples (Cu ppm)**
- < 69.8 (50th Percentile)
  - ▲ 69.8 - 134.4 (75th Percentile)
  - ▲ 134.4 - 755.0 (90th Percentile)
  - ▲ 755.0 - 1958.8 (95th Percentile)
  - ▲ > 1958.8 (>95th Percentile)
- Soil Samples (Cu ppm)**
- < 51.8 (50th Percentile)
  - 51.8 - 91.8 (75th Percentile)
  - 91.8 - 201.0 (90th Percentile)
  - 201.0 - 329.0 (95th Percentile)
  - > 329.0 (>95th Percentile)
- Mineral Occurrence
  - Community
  - Contour (100ft)
  - Roads
  - Creeks
  - Lakes
  - North Rok Property
  - Geologic Contact
  - Fault
  - Qtz-Ser-Py Alteration
  - Ankerite Alteration
  - QAL Contact





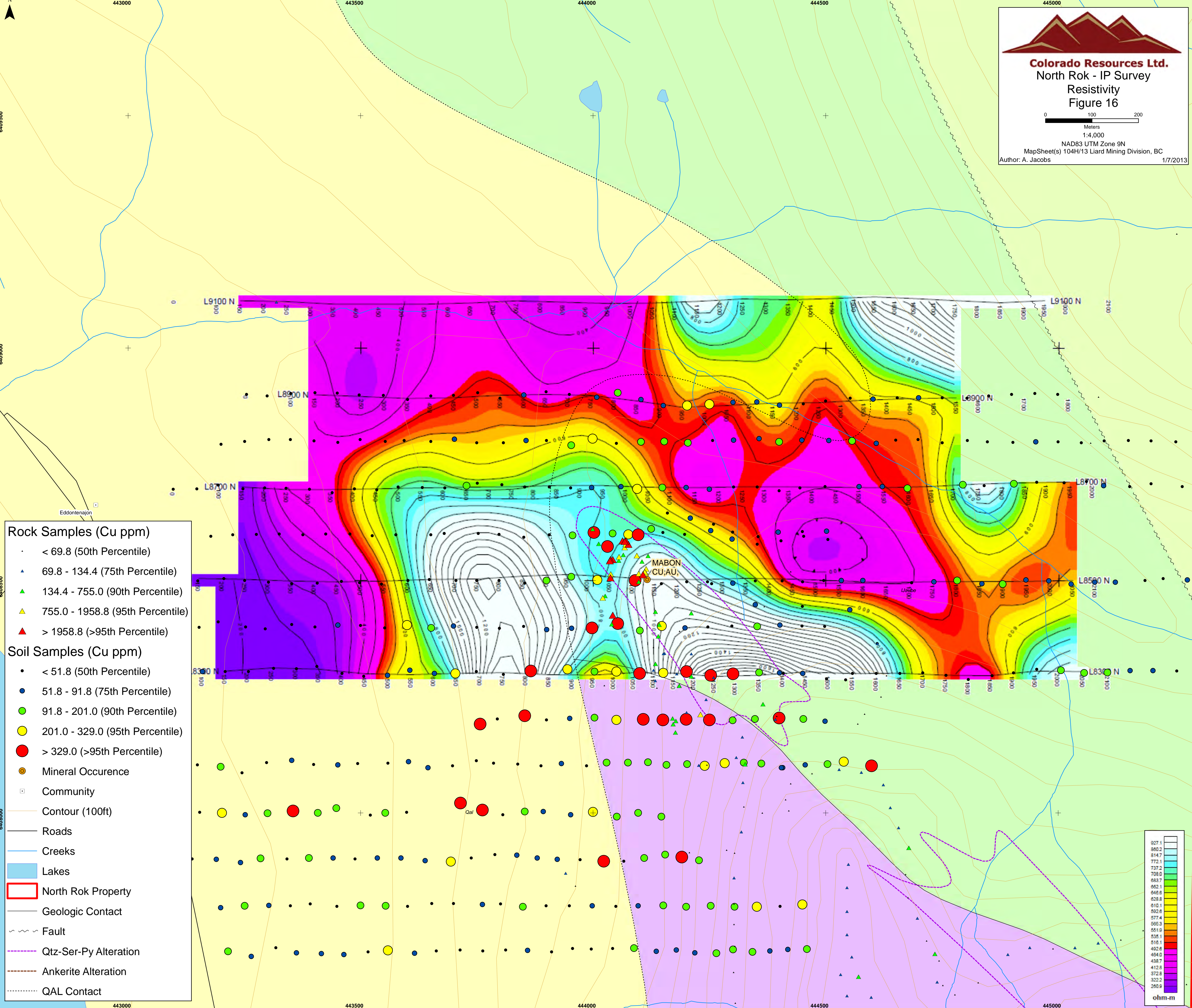
- Rock Samples (Cu ppm)**
- < 69.8 (50th Percentile)
  - ▲ 69.8 - 134.4 (75th Percentile)
  - ▲ 134.4 - 755.0 (90th Percentile)
  - ▲ 755.0 - 1958.8 (95th Percentile)
  - ▲ > 1958.8 (>95th Percentile)
- Soil Samples (Cu ppm)**
- < 51.8 (50th Percentile)
  - 51.8 - 91.8 (75th Percentile)
  - 91.8 - 201.0 (90th Percentile)
  - 201.0 - 329.0 (95th Percentile)
  - > 329.0 (>95th Percentile)
- Mineral Occurrence
  - Community
  - Contour (100ft)
  - Roads
  - Creeks
  - Lakes
  - ▭ North Rok Property
  - Geologic Contact
  - - - Fault
  - ⋯ Qtz-Ser-Py Alteration
  - - - Ankerite Alteration
  - ⋯ QAL Contact





**Colorado Resources Ltd.**  
 North Rok - IP Survey  
 Resistivity  
 Figure 16

0 100 200  
 Meters  
 1:4,000  
 NAD83 UTM Zone 9N  
 MapSheet(s) 104H/13 Liard Mining Division, BC  
 Author: A. Jacobs 1/7/2013



**Rock Samples (Cu ppm)**

- < 69.8 (50th Percentile)
- ▲ 69.8 - 134.4 (75th Percentile)
- ▲ 134.4 - 755.0 (90th Percentile)
- ▲ 755.0 - 1958.8 (95th Percentile)
- ▲ > 1958.8 (>95th Percentile)

**Soil Samples (Cu ppm)**

- < 51.8 (50th Percentile)
- 51.8 - 91.8 (75th Percentile)
- 91.8 - 201.0 (90th Percentile)
- 201.0 - 329.0 (95th Percentile)
- > 329.0 (>95th Percentile)

● Mineral Occurrence

□ Community

— Contour (100ft)

— Roads

— Creeks

— Lakes

□ North Rok Property

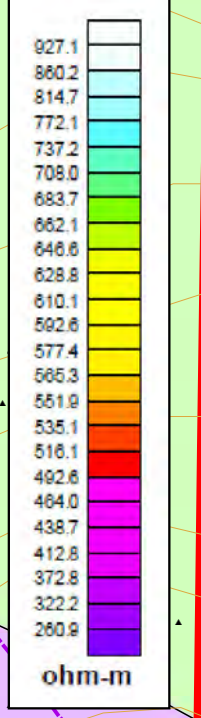
— Geologic Contact

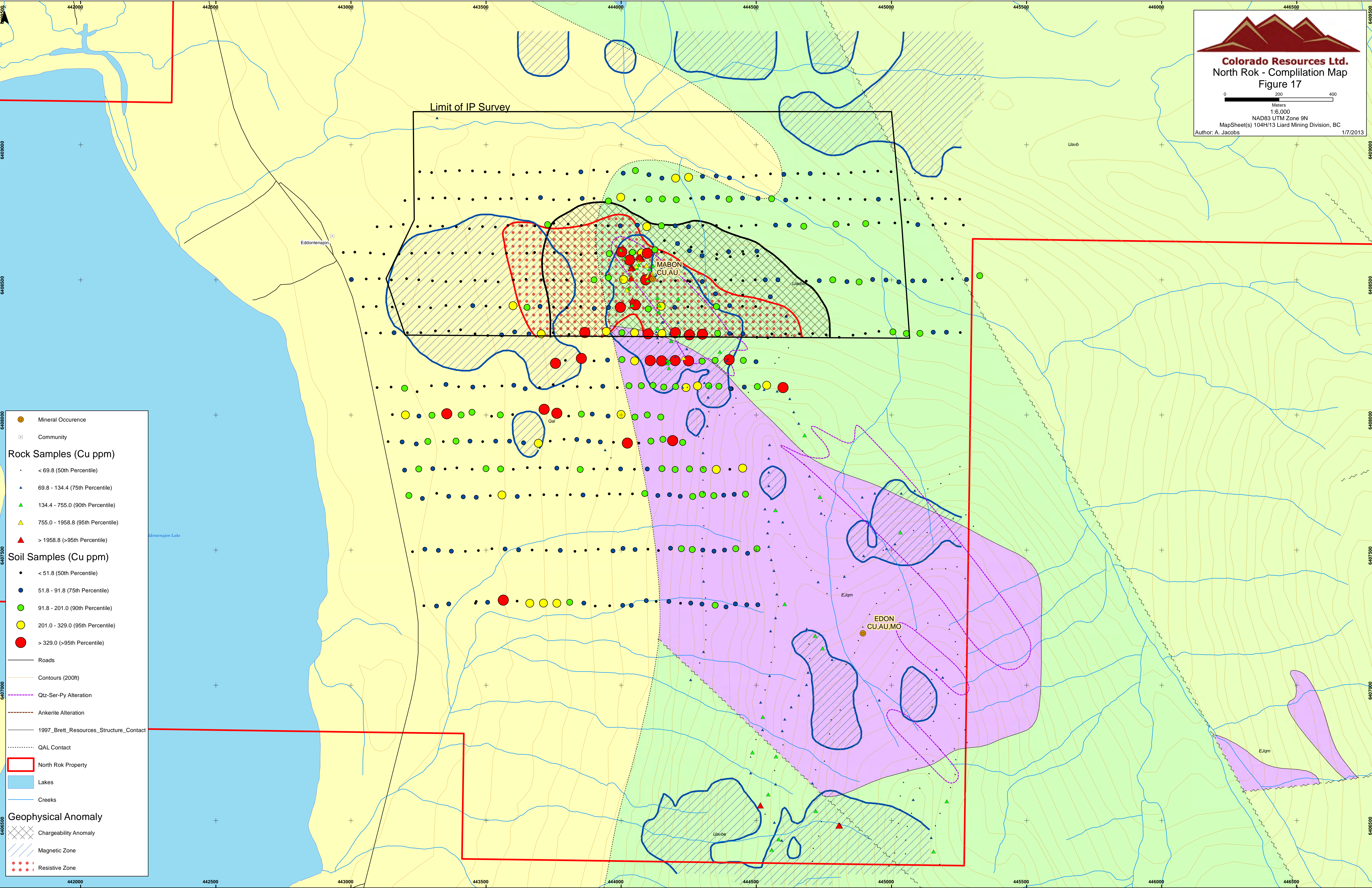
~ Fault

- - - Qtz-Ser-Py Alteration

- - - Ankerite Alteration

⋯ QAL Contact





- Mineral Occurrence
- Community

**Rock Samples (Cu ppm)**

- < 69.8 (50th Percentile)
- 69.8 - 134.4 (75th Percentile)
- 134.4 - 755.0 (90th Percentile)
- 755.0 - 1958.8 (95th Percentile)
- > 1958.8 (>95th Percentile)

**Soil Samples (Cu ppm)**

- < 51.8 (50th Percentile)
- 51.8 - 91.8 (75th Percentile)
- 91.8 - 201.0 (90th Percentile)
- 201.0 - 329.0 (95th Percentile)
- > 329.0 (>95th Percentile)

- Roads
- Contours (200ft)
- Qtz-Ser-Py Alteration
- Ankerite Alteration
- 1997\_Brett\_Resources\_Structure\_Contact
- QAL Contact
- North Rok Property
- Lakes
- Creeks

**Geophysical Anomaly**

- Chargeability Anomaly
- Magnetic Zone
- Resistive Zone

## **Appendix 2**

### Soil Sample Locations and Descriptions

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1554210	444505	6408588	JO	good orange - brick red B horizon						
1554211	444453	6408595	JO	good orange - brick red B horizon						
1554212	444404	6408585	JO	good orange - brick red B horizon						
1554213	444353	6408578	JO	good orange - brick red B horizon						
1554214	444299	6408589	JO	good orange - brick red B horizon						
1554215	444259	6408621	JO	good orange - brick red B horizon						
1554216	444209	6408634	JO	good orange - brick red B horizon						
1554217	444160	6408645	JO	good orange - brick red B horizon						
1554218	444125	6408611	JO	light yellow cream, sub-rounded rock frags, probable transported alluvium						
1554219	444076	6408599	JO	light yellow cream, sub-rounded rock frags, probable transported alluvium						
1554220	444031	6408573	JO	good orange - brick red B horizon						
1554301	443757	6408191	MR							
1554302	443794	6408202	MR							
1554303	443853	6408209	MR							
1554304	443900	6408200	MR							
1554305	443950	6408203	MR							
1554306	444003	6408205	MR							
1554307	444050	6408200	MR	Missing from Mark's notes and GPS, coordinated approximated (taken as true soil grid locations)						
1554308	444108	6408201	MR							
1554309	444150	6408200	MR	Missing from Mark's notes and GPS, coordinated approximated (taken as true soil grid locations)						
1554310	444200	6408201	MR							
1554311	444250	6408200	MR	Missing from Mark's notes and GPS, coordinated approximated (taken as true soil grid locations)						
1554312	444300	6408199	MR							

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1554313	444348	6408202	MR							
1554314	444400	6408204	MR							
1554315	444452	6408202	MR							
1554316	444499	6408197	MR							
1554317	444502	6408288	MR							
1554318	444451	6408300	MR							
1554319	444401	6408301	MR							
1554320	444357	6408302	MR							
1554321	444301	6408299	MR							
1554322	444253	6408296	MR							
1554323	444201	6408304	MR							
1554324	444151	6408301	MR							
1554325	444100	6408300	MR	Missing from Mark's notes and GPS, coordinated approximated (taken as true soil grid locations)						
1554326	444050	6408304	MR							
1554327	444003	6408304	MR							
1554328	443945	6408309	MR							
1554329	443899	6408312	MR							
1554330	443866	6408305	MR							
1554331	443807	6408298	MR							
1554332	443749	6408304	MR							
1554376	444009	6408501	MR							
1554377	443953	6408508	MR							
1554378	443900	6408500	MR							
1554379	443853	6408494	MR							
1554380	443798	6408500	MR							
1554381	443750	6408500	MR							
1554401	443753	6408601	JN	Red Brown, clayey, silty, moderate (10-30%) organics, 25-30cm depth. Moss, log cover.						
1554402	443798	6408599	JN	Red-brown, minor clay, 10-30% organics, minor rock chips. ~20cm depth.						
1554403	443851	6408593	JN	Red-orange to brown, clayey, minor rock chips. 10-30% organics, 30cm depth.						
1554404	443906	6408598	JN	Red-brown, moderate clay, moderate rock chips, 10-30% organics. 20-30cm depth.						

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Fraggs_%	Other
1554405	443956	6408597	JN	Brown-red. Minor clay, abundant rock chips. ~30% organics, 20cm depth.						
1554406	444002	6408603	JN	Orange-brown, 25cm dpeth. 30% organics, moderate clay, moderate rock chips.						
1554407	444042	6408601	JN	Orange-brown, abundant rock chips and fragments. Minor clay. 20-30% oprganics. 35cm depth.						
1554408	444097	6408598	JN	Brownish-red soil. Minor clay. Moderate rock chips. 20% organics. 30cm depth.						
1554409	444150	6408603	JN	Orange-brown, minor to moderate clay, minor rock chips. 30% organics, 30cm depth.						
1554410	444197	6408599	JN	Orange-brown, moderate clay. Moderate rock chips. 30% organics, 35cm depth.						
1554411	444253	6408607	JN	Orange-brown. Minor clay. Moderate rock chips. 30% organics. 25cm depth.						
1554412	444300	6408604	JN	Orange-brown, minor clay, minor rock chips, 30-40% organics, 25cm depth.						
1554413	444355	6408594	JN	Orange-brown, moderate clay, minor rock chips. 30% organics, 30cm depth.						
1554414	444398	6408604	JN	Orange to brown. Moderate to abundant clay. Moderate rock chips. 30% organics, 35cm depth.						
1554415	444450	6408605	JN	Orange-brown. Moderate clay, moderate rock fragments, 30% organics. 35cm depth.						



Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1554416	444502	6408606	JN	Orangey to medium brown, minor to moderate clay, moderate rock chips, 30% organics. 35cm depth.						
1554417	444499	6408702	JN	Orange brown. Moderate clay. Moderate rock chips. 30% organics. 25cm depth.						
1554418	444445	6408699	JN	Orange to medium brown. Moderate clay. Moderate rock chips. 30% organics. 30cm depth.						
1554419	444400	6408693	JN	Orange-brown. Moderate clay, moderate rock chips, 30% organics, 25cm depth.						
1554420	444353	6408701	JN	Orange-brown. Moderate clay, moderate rock chips, 30% organics, 30cm depth.						
1554421	444302	6408701	JN	Medium brown. Moderate clay. Minor to moderate rock chips. 30% organics. 20cm depth.						
1554422	444250	6408696	JN	Orange brown. Minor clay. Abundant rock chips. 30% organics, 25cm depth.						
1554423	444200	6408700	MR							
1554424	444149	6408700	MR							
1554425	444095	6408697	MR							
1554426	444060	6408702	JN	Orange-brown. Minor clay, abundant rock chips, 30-40% organics. 40cm depth.						
1554427	443997	6408700	JN	Orange-brown. Moderate clay. Moderate rock chips. 30% organics. 30cm depth.						

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1554428	443952	6408699	JN	Light brown to orange. Minor clay. Abundant rock chips. 30% organics. 30cm depth.						
1554429	443906	6408701	JN	Light brown, minor clay, abundant rock chips. 30% organics. 35cm depth.						
1554430	443853	6408701	JN	Orange to medium brown. Minor clay. Abundant rock chips. 30% organics, 25cm depth.						
1554431	443804	6408706	JN	Orange-red, minor clay, minor rock chips. 30% organics, 30cm depth.						
1554432	443751	6408709	JN	Red-orange. Moderate clay. Minor rock chips, 30% organics, 20cm depth.						
1554300	444255	6408493	GD							
1554299	444349	6408448	GD							
1554298	444450	6408444	GD							
1554297	444552	6408437	GD							
1554296	444611	6408364	GD							
1554295	444543	6408286	GD							
1554351	443749.93	6408398.97	DC							
1554352	443798.65	6408397.36	DC							
1554353	443850.62	6408401.49	DC							
1554354	443900.43	6408394.18	DC							
1554355	443953.8	6408397.32	DC							
1554356	443997.55	6408398.12	DC							
1554357	444052.94	6408406.56	DC							
1554358	444100.65	6408391.86	DC							
1554359	444147.82	6408401.78	DC							
1554360	444197.92	6408398.25	DC							
1554361	444247.14	6408399.7	DC							
1554362	444298.52	6408401.99	DC							
1554363	444353.05	6408400.8	DC							
1554364	444401.72	6408403.54	DC							
1554365	444449.13	6408401.72	DC							
1554366	444497.91	6408400.55	DC							
1554367	444495.9	6408500.45	DC							
1554368	444450.66	6408497.21	DC							
1554369	444406.48	6408499.27	DC							
1554370	444349.02	6408499.3	DC							
1554371	444300.57	6408494.3	DC							

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1554372	444246.09	6408497.11	DC							
1554373	444201.28	6408497.27	DC							
1554374	444147.08	6408493.34	DC							
1554375	444090.58	6408500.22	DC							
1507001	443200	6408793	JN/MP		dark brown	40	5	subangular	5	
1507002	443251	6408799	JN/MP		light brown-orange	40	5	subangular	5	
1507003	443303	6408803	JN/MP		light brown-orange	40	5	subangular	5	
1507004	443349	6408803	JN/MP		orange	40	5	subangular	5	
1507005	443400	6408800	JN/MP		light brown-orange	40	5	subangular	5	
1507006	443451	6408797	JN/MP		light brown-orange	45	5	subangular	5	
1507007	443499	6408803	JN/MP		light brown-orange	40	5	subangular	5	
1507008	443553	6408799	JN/MP		orange-red	30	5	subangular	5	
1507009	443594	6408801	JN/MP		medium brown-orange	35	5	subangular	10	
1507010	443651	6408799	JN/MP		orange	45	10	subangular	10	
1507011	443702	6408804	JN/MP		medium brown-orange	40	10	subangular	5	
1507012	443750	6408796	JN/MP		brown-orange	40	10	subangular	5	
1507013	443807	6408796	JN/MP		red-orange	30	10	subangular	5	
1507014	443856	6408801	JN/MP		orange	40	10	subangular	5	
1507015	443900	6408801	JN/MP		red-orange	35	10	subangular	15	really rocky
1507016	443953	6408791	JN/MP		orange-red	40	5	subangular	5	
1507017	443999	6408805	JN/MP		light brown	25	10	subangular	10	
1507018	444050	6408795	JN/MP		light brown-orange	25	10	subangular	10	
1507019	444103	6408798	JN/MP		orange	30	10	subangular	10	
1507020	444153	6408799	JN/MP		brown-orange	30	10	subangular	10	
1507021	444204	6408796	JN/MP		orange	30	10	subangular	10	
1507022	444257	6408801	JN/MP		brown-grey	40	5	subangular	5	
1507023	444302	6408802	JN/MP		brown-grey	40	5	subangular	5	
1507024	444357	6408805	JN/MP		orange	35	5	subangular	10	
1507025	444400	6408798	JN/MP		grey-orange	45	5	subangular	5	
1507026	444449	6408802	JN/MP		grey-orange	45	5	subangular	5	
1507027	444507	6408801	JN/MP		grey-orange	45	5	subangular	5	
1507028	444557	6408800	JN/MP		grey	25	5	subangular	5	clay rich, near mabon creek
1507029	444609	6408795	JN/MP		light brown-grey	40	5	subangular	5	
1507030	444651	6408802	JN/MP		brown-orange	25	5	subangular	5	
1507031	444699	6408803	JN/MP		brown-orange	40	5	subangular	5	
1507032	444751	6408796	JN/MP		orange	40	5	subangular	5	
1507033	444805	6408801	JN/MP		brown	35	5	subangular	5	
1507034	444848	6408798	JN/MP		light brown	30	10	subangular	5	
1507035	444903	6408797	JN/MP		orange-brown	40	5	subangular	10	
1507036	444952	6408798	JN/MP		brown-orange	40	5	subangular	5	
1507037	445000	6408798	JN/MP		orange-brown	40	5	subrounded to subangular	10	
1507038	445050	6408796	JN/MP		orange-brown	30	5	subangular	20	
1507039	445099	6408800	JN/MP		orange	40	10	subangular	5	

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507040	445151	6408801	JN/MP		orange	30	10	subangular	5	
1507041	445200	6408800	JN/MP		brown-orange	30	15	subangular	10	
1507042	445253	6408798	JN/MP		brown	25	10	subangular	10	
1507043	443255	6408900	JN/MP		orange	40	5	subangular	10	
1507044	443299	6408897	JN/MP		orange	35	5	subangular	5	
1507045	443350	6408902	JN/MP		orange	40	10	subangular	5	
1507046	443402	6408904	JN/MP		orange	30	5	subangular	5	
1507047	443450	6408903	JN/MP		orange	30	5	subangular	5	
1507048	443497	6408899	JN/MP		orange	35	5	subangular	5	
1507049	443549	6408898	JN/MP		orange	40	5	subangular	10	
1507050	443601	6408889	JN/MP		orange	35	10	subangular	10	
1507051	443651	6408897	JN/MP		orange-red	35	5	subangular	5	
1507052	443700	6408898	JN/MP		orange-red	35	5	subangular	5	
1507053	443752	6408904	JN/MP		orange-red	40	5	subangular	5	
1507054	443800	6408892	JN/MP		orange-red	40	5	subangular	5	
1507055	443851	6408899	JN/MP		orange-brown	40	5	subangular	5	
1507056	443899	6408906	JN/MP		orange-red-brown	40	5	subangular	5	
1507057	443949	6408900	JN/MP		red-orange	40	5	subangular	5	
1507058	444008	6408894	JN/MP		orange-brown	40	5	subangular	5	
1507059	444053	6408904	JN/MP		orange-brown	40	5	subangular	10	
1507060	444103	6408889	JN/MP		orange-brown	40	5	subangular	5	
1507061	444151	6408876	JN/MP		orange-brown	40	5	subangular	5	
1507062	444202	6408876	JN/MP		brown-orange	40	10	subangular	10	
1507063	444250	6408879	JN/MP		grey	100	10	subangular	5	clay
1507064	444301	6408883	JN/MP		light brown	30	5	subangular	5	
1507065	444352	6408884	JN/MP		grey-brown	25	5	subangular	5	
1507066	444401	6408877	JN/MP		grey	30	5	subangular	20	
1507067	444452	6408880	JN/MP		grey-brown	45	5	subangular	20	
1507068	444500	6408886	JN/MP		orange	30	5	subangular	10	
1507069	444553	6408892	JN/MP		grey-brown	30	5	subangular	10	
1507070	444602	6408890	JN/MP		light brown-orange	35	5	subangular	5	clay
1507071	444654	6408893	JN/MP		orange	30	10	subangular	5	
1507072	444700	6408893	JN/MP		orange	30	10	subangular	5	
1507073	444751	6408893	JN/MP		orange	30	5	subangular	5	
1507074	444804	6408892	JN/MP		brown-orange	30	10	subangular	10	
1507075	444851	6408897	JN/MP		orange	30	5	subangular	5	
1507076	444900	6408900	JN/MP		brown-orange	35	10	subangular	10	
1507077	444950	6408902	JN/MP		brown	30	10	subangular	10	
1507078	444999	6408900	JN/MP		orange	35	10	subangular	5	
1507079	445327	6408515	ds		dark brown	20	5	sub angular	0	
1507080	445278	6408501	ds		dark brown	20	5	subangular		
1507081	445226	6408504	ds		light brown	20	8	sub angular		
1507082	445187	6408500	ds		brown	10	8	subangular		
1507083	445123	6408496	ds		brown sandy	5	5	sub angular		
1507084	445079	6408496	ds		grey clay	25	5	subangular		

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507085	445028	6408492	ds		grey sandy	20	5	sub angular		
1507086	444980	6408499	ds		clay grey sandy	3	5	subangular		
1507087	444931	6408501	ds		grey clay	25	5	sub angular		
1507088	444881	6408492	ds		grey	30	5	subangular	5	
1507089	444836	6408493	ds		brown	3	5	sub angular	5	
1507090	444783	6408500	ds		brown	35	5	subangular	5	
1507091	444733	6408497	ds		brown	15	7	sub angular	10	
1507092	444685	6408495	ds		brown	10	5	subangular	5	
1507093	444685	6408495	ds		brown	10	5	sub angular	5	
1507094	444580	6408500	ds		brown	10	5	subangular	1	
1507095	444534	6408500	ds		brown sandy	20	10	sub angular	1	
1507096	443705	6408500	ds		brown sandy	7	5	subangular	10	
1507097	443648	6408502	ds		brown sandy	20	5	sub angular	5	
1507098	443602	6408500	ds		brown sandy	15	10	subangular	10	
1507099	443545	6408492	ds		brown	6	5	sub angular	5	
1507100	443498	6408495	ds		brown	10		sub angular	5	
1507101	443097	6408696	oli		light brown	30				
1507102	443148	6408697	oli		dark brown	30	5	round		
1507103	443194	6408705	oli		dark brown	30	5		5	
1507104	443247	6408697	oli		light brown	30	5		5	
1507105	443294	6408699	oli		tanbrown	30	5		5	
1507106	443340	6408698	oli		tanbrown	30	7		5	
1507107	443390	6408696	oli		tan and dark brown	30	7		5	
1507108	443439	6408689	oli		clay	30	5		5	clay
1507109	443487	6408697	oli		tanbrown	30	5		5	
1507110	443535	6408695	oli		tanred	30	3		5	
1507111	443581	6408701	oli		tan brown	30	10			
1507112	443633	6408700	oli		tan brown	30	5			mossy
1507113	443681	6408699	oli		light brown	40	7		5	
1507114	443728	6408704	oli		clay	35	7		5	clay
1507115	444572	6408702	oli		black and tan	30	5		5	
1507116	444622	6408702	oli		grey and brown	30	0		5	clay
1507117	444676	6408698	oli		brown	30	20			
1507118			oli		no sample.....river					
1507119	444795	6408706	oli		blackand brown	35	10			
1507120	444841	6408704	oli		dark brown	30	7			
1507121	444905	6408708	oli		redbrown	30	7			
1507122	444954	6408711	oli		red	30	7			
1507123	445013	6408710	oli		tan red	30	5			
1507124	445061	6408713	oli		brown	30	7			
1507125	445098	6408704	oli		red tan	30	7			
1507126	445154	6408702	oli		tan red	30	5			
1507127			oli							
1507128	445200	6408708	oli		tan	30	5			
1507129	445267	6408702	oli		dark brown	30	5			

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507130	443270	6407294	oli		dark brown	45	15	sub rounded	5	
1507131	443317	6407293	oli		dark brown	30	15	sub rounded	1	
1507132	443362	6407301	oli		dark brown	30	10	round	1	
1507133	443411	6047303	oli		dark brown and grey	30	5		0	
1507134	443464	6407310	oli		dark brown	45	5	round	1	
1507135	443506	6407307	oli		dark brown and grey	25	5		0	
1507136	443564	6407315	oli		dark brown	40	5		0	
1507137	443615	6407311	oli		light brown	25	10	sub angular	10	
1507138	443662	6407303	oli		light brown	40	2	sub angular	1	
1507139	443713	6407304	oli		dark brown and grey	35	5	sub angular	2	moist
1507140	443762	6407303	oli		dark and light brown	20	5		0	
1507141	443810	6407307	oli		light brown	25	5	sub angular	5	
1507142	443862	6407304	oli		light brown	40	2	sub angular	7	
1507143	443904	6407293	oli		light brown	35	10	sub angular	10	
1507144	443958	6407294	oli		light brown	25	5	sub angular	15	
1507145	444006	6407295	oli		light brown	35	3	sub angular	10	
1507146	444038	6407295	oli		brown	30	20	sub angular	10	30cm to bedrock
1507147	444093	6407313	oli		light brown	40	5	sub angular	20	rocky
1507148	444130	6407310	oli		brown	35	10	angular	15	veg+rocks
1507149	444177	6407310	oli		brown/tan	25	5	angular	30	
1507150	444220	6407303	oli		tan/brown	20	5	sub angular	25	
1507151	443459	6408498	Gene		dark brown	7		sub angular	5	sandy
1507152	443407	6408494	Gene		brown	10		sub angular	5	sandy and dry
1507153	443352	6408493	Gene		brown	20			0	sandy and dry
1507154	443302	6408496	Gene		grey brown	8			0	sandy and dry
1507155	443251	6408500	Gene		brown	19		sub angular	5	sandy
1507156			Gene							no sample
1507157	443206	6408504	Gene		grey brown	26		sub angular	5	sandy
1507158	443150	6408499	Gene		light brown	15		sub angular	5	
1507159	443105	6408504	Gene		light brown	15			0	
1507160	443057	6408503	Gene		grey brown	13			0	
1507161	443002	6408501	Gene		dark brown	30			0	
1507162	443228	6407494	Gene		dark brown	10			0	
1507163	443274	6407503	Gene		dark brown	35				dry
1507164	443324	6407499	Gene		brown	40			0	
1507165	443372	6407496	Gene		brown	50			0	
1507166	443424	6407495	Gene		dark brown	30			0	
1507167	443472	6407498	Gene		brown	10			20	sandy and dry
1507168	443522	6407505	Gene		dark brown	30			0	wet
1507169	443571	6407504	Gene		brown	20			0	moist
1507170	443621	6407501	Gene		brown	25			0	wet
1507171	443671	6407500	Gene		brown	40	50	sub angular	2	moist
1507172	443723	6407499	Gene		grey	30			10	sandy
1507173	443775	6407499	Gene		brown	25			20	dry
1507174	443829	6407495	Gene		brown	20		sub angular	2	dry

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507175	443869	6407499	Gene		brown	15		sub angular	5	dry
1507176	443915	6407503	Gene		brown	20		sub angular	5	dry
1507177	443970	6407497	Gene		brown	20		sub angular	20	dry
1507178	444007	6407506	Gene		brown	20		sub angular	10	dry
1507179	444052	6407502	Gene		brown	10		sub angular	10	dry
1507180	444099	6407503	Gene		brown	15	10	sub angular	20	dry
1507181	444138	6407498	Gene		brown	20		sub angular	30	dry
1507182	444183	6407507	Gene		brown	15		sub angular	60	dry
1507183	444223	6407505	Gene		brown	30		angular	50	
1507184	444263	6407502	Gene		brown	8		sub angular	5	
1507185	444302	6407500	Gene		brown	10		sub angular	1	dry
1507186	444344	6407496	Gene		brown	15		sub angular	1	dry
1507187	444383	6407500	Gene		brown	15		flat and sub angular	10	dry
1507188	444424	6407505	Gene		brown	10		flat and sub angular	10	moist
1507189	444468	6407488	Gene		brown	5				rooty
1507190	444503	6407505	Gene		dark brown	10		sub angular	5	
1507191	443138	6407901	Gene		dark brown	30				moist
1507192	443190	6407900	Gene		grey brown	40				clay
1507193	443242	6407893	Gene		grey	30		sub angular	1	clay
1507194	443285	6407902	Gene		dark brown	35				wet
1507195	443342	6407901	Gene		grey brown	35			0	clay
1507196	443389	6407903	Gene		grey brown	35				wet
1507197	443441	6407903	Gene		brown	25				sandy and moist
1507198	443488	6407901	Gene		brown	15		sub angular	10	sandy
1507199	443536	6407903	Gene		brown	15		sub angular	10	sandy
1507200	443587	6407903	Gene		grey	25		sub angular	1	wet clay
1507201	444258	6407304	oli		tan/brown	25	5	sub angular	20	
1507202	444299	6407300	oli		tan/brown	40	5	subangular	15	
1507203	444348	6407296	oli		tan/brown	20	15	angular	10	
1507204	444388	6407290	oli		brown	35	15	sub angular	20	
1507205	444423	6407301	oli		black		5	sub angular	40	
1507206	444465	6407298	oli		dark brown	40	10		30	
1507207	444506	6407298	oli		dark brown	50	15	sub angular	40	
1507208	443639	6407897	Gene		green brown	25		sub angular	10	wet
1507209	443694	6407895	Gene		dark brown	30			0	
1507210	443738	6407903	Gene		brown	15		sub angular	5	
1507211	443789	6407910	Gene		brown	20		sub angular	5	dry
1507212	443836	6407909	Gene		brown	30		sub angular	5	dry
1507213	443880	6407903	Gene		brown	20		sub angular	6	powdery dry
1507214	443923	6407900	Gene		brown	15		sub angular	10	powdery dry
1507215	443972	6407899	Gene		brown	20		sub angular	5	powdery dry
1507216	444023	6407896	Gene		dark brown	25		sub angular	5	sandy
1507217	444066	6407896	Gene		brown	30		sub angular	10	powdery dry

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507218	444110	6407903	Gene		brown	25		sub angular	20	powdery dry sand
1507219	444155	6407910	Gene		brown	25		sub angular	50	powdery dry sand
1507220	444191	6407905	Gene		brown	30		sub angular	50	powdery rooty sand
1507221	444228	6407898	Gene		brown	10		sub angular	50	powdery rooty sand
1507222	443097	6408101	Gene		grey	7		sub angular	10	sandy
1507223	443149	6408103	Gene		grey	10		sub angular	10	sandy
1507224	443199	6408099	Gene		grey	25			0	clay
1507225	443245	6408086	Gene		grey	30			0	clay
1507226	443298	6408108	Gene		grey	20			0	clay
1507227	443352	6408113	Gene		grey	25		sub angular	5	clay
1507228	443399	6408104	Gene		grey	30		sub angular	5	sandy
1507229	443451	6408103	Gene		grey and brown	20			0	moist
1507230	443494	6408106	Gene		brown	20				sandy
1507231	443559	6408107	Gene		grey	20			0	clay
1507232	443603	6408110	Gene		grey	20		angular	5	muddy sand
1507233	443645	6408097	Gene		brown	25		sub angular	10	wet sand
1507234	443698	6408101	Gene		grey and brown	20		sub angular	20	sandy
1507235	443749	6408112	Gene		brown	10		sub angular	10	dry sandy
1507236	443786	6408107	Gene			10		sub angular	5	powdery dry sand
1507237	443838	6408105	Gene		brown	10		sub angular	5	powdery dry sand
1507238	443888	6408101	Gene		brown	10		sub angular	5	powdery dry
1507239	443932	6408106	Gene		brown	15		sub angular	5	dry
1507240	443986	6408101	Gene		brown	10		sub angular	5	dry
1507241	444029	6408108	Gene		brown	10		sub angular	2	powdery dry
1507242	444075	6408108	Gene		brown	5		sub angular	2	dry
1507243	444118	6408109	Gene		brown	10		flat and sub angular	5	dry
1507244	444158	6408103	Gene		brown	10		flat and sub angular	5	dry
1507245	444202	6408105	Gene		brown	15		flat and sub angular	50	powdery dry
1507246	444240	6408101	Gene		brown	10		sub angular	5	powdery dry
1507247	444283	6408107	Gene		brown	25		sub angular	5	dry
1507248	444324	6408108	Gene		brown	20		sub angular	20	dry
1507249	444362	6408106	Gene		brown	10		sub angular	50	dry
1507250	444405	6408097	Gene		brown	25		sub angular	5	dry
1507251	443056	6408303	Gene		grey	7		sub angular	5	dry sandy
1507252	443110	6408303	Gene		black	35			0	muddy
1507253	443160	6408304	Gene		dark brown	30			0	muddy
1507254	443209	6408304	Gene		brown	10		sub angular	5	dry
1507255	443259	6408304	Gene		grey	10			0	moist
1507256	443313	6408311	Gene		brown	10			0	dry sandy
1507257	443362	6408310	Gene		light brown	10			0	moist sandy



Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507258	443406	6408315	Gene		brown	8		sub angular	10	dry sandy
1507259	443460	6408300	Gene		grey	10			0	moist sandy
1507260	443507	6408294	Gene		brown	8		sub rounded	3	dry sandy
1507261	443558	6408296	Gene		grey	25			0	hard clay
1507262	443606	6408307	Gene		grey	15			0	hard clay
1507263	443659	6408300	Gene		grey	15			0	moist sandy
1507264	443704	6408300	Gene		brown	15		flat and sub angular	5	dry
1507265	444409	6408300	Gene		brown	4		sub angular	5	dry sandy
1507266	444558	6408300	Gene		brown	10		sub angular	5	dry sandy
1507267	444609	6408300	Gene		brown	10		sub angular	5	moist sandy
1507268	444660	6408300	Gene		brown	12			0	dry sandy
1507269	444709	6408301	Gene		brown	20		sub angular	5	dry
1507270	444759	6408296	Gene		brown	10			0	dry sandy
1507271	444807	6408287	Gene			8			0	dry sandy
1507272	444858	6408295	Gene		brown	5			0	dry and powdery
1507273	444904	6408301	Gene		brown	8		sub angular	5	dry
1507274	444954	6408309	Gene		brown	10				dry sandy
1507275	445006	6408307	Gene			10			0	dry, powdery sandy
1507276	445056	6408301	Gene		brown	5			0	dry sandy
1507277	445106	6408302	Gene		brown	5			0	dry
1507278	445155	6408306	Gene		brown	5			0	dry powdery
1507279	445204	6408306	Gene		brown	10			0	dry powdery
1507280	445255	6408305	Gene		brown	10		sub angular	5	dry sandy
1507351	442972	6408601	oli		grey	10		subangular	1	5cm duff
1507352	443015	6408602	oli		grey	15			0	dry, sandy, 5cm duff
1507353	443072	6408599	oli		grey	20			0	clay, 7cm duff
1507354	443122	6408595	oli		grey	20			0	clay, 15cm duff
1507355	443178	6408595	oli		dark grey	20			0	clay, 15cm duff
1507356	443225	6408598	oli		brown	20			0	clay, 15cm duff
1507357	443276	6408599	oli		grey	10			0	moist clay, 2cm duff
1507358	443325	6408600	oli		dark brown	7			0	sandy dirt, 1cm duff
1507359	443376	6408598	oli		brown	10		subangular	5	dry dirt, 2cm duff
1507360	443425	6408600	oli		brown	10		subangular	20	sandy, 3cm duff
1507361	443477	6408600	oli		brown	10			0	moist, sandy, 2cm duff
1507362	443525	6408596	oli		brown	10			0	3cm duff, dry dirt
1507363	443576	6408598	oli		brown	10		subangular	5	dry, 3cm duff
1507364	443651	6408598	oli		brown	15		subangular	5	dry, 3m duff
1507365	443680	6408601	oli		brown	10			0	moist, sandy, 3cm duff

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507366	443700	6408402	oli		black	10	5		0	moist, 3cm duff
1507367	443652	6408398	oli		dark brown	15	5		0	5cm duff
1507368	443600	6408404	oli		dark brown	20	2		0	moist, 5cm duff
1507369	443552	6408398	oli		light brown	15	5		0	5cm duff
1507370	443500	6408403	oli		light brown	20	1	subangular	2	5cm duff
1507371	443451	6408404	oli		light brown	15	5	subangular	2	5cm duff
1507372	443402	6408400	oli		light brown	20	2	subangular	2	5cm duff
1507373	443352	6408405	oli		light brown	20	2	subangular	5	5cm duff
1507374	443295	6408396	oli		light brown	20	5	subangular	5	5cm duff
1507375	443253	6408400	oli		light brown	20	2	subangular	2	clay, 5cm duff
1507376	443194	6408411	oli		grey	25	0	subangular	1	moist clay, 15cm duff
1507377	443153	6408399	oli		light brown	25	5	subangular	5	10cm duff
1507378	443094	6408401	oli		light grey	20	5	subangular	3	10cm duff
1507379	443046	6408400	oli		light grey	20	2	subangular	2	5cm duff
1507301	443215	6407702	BC/DS		dark brown	35	40		0	
1507302	443265	6407691	BC/DS		dark brown	40	30		0	mix of clay and mud
1507303	443318	6407710	BC/DS		dark brown-grey	30	20		0	45% clay
1507304	443362	6407699	BC/DS		dark brown	40	25		0	30% clay
1507305	443416	6407697	BC/DS		dark brown	45	40		0	30% clay
1507306	443464	6407695	BC/DS		dark brown-grey	20	15		0	35% clay
1507307	443516	6407701	BC/DS		light brown	20	20	subangular	2	
1507308	443559	6407704	BC/DS		dark brown	60	60		0	15% clay (swampy)
1507309	443616	6407698	BC/DS		dark brown	35	15		0	
1507310	443663	6407703	BC/DS		dark brown-grey	30	10	rounded	10	
1507311	443714	6407705	BC/DS		dark brown	25	10		0	
1507312	443763	6407703	BC/DS		dark brown	25	45		0	
1507313	443812	6407705	BC/DS		light brown-grey	20	5	angular	7	
1507314	443859	6407704	BC/DS		light brown	10	5	subangular	10	
1507315	443911	6407701	BC/DS		light brown	12	20	rounded	2	
1507316	443956	6407708	BC/DS		orange	15	25	rounded	15	
1507317	443996	6407707	BC/DS		light brown-orange	10	10	angular	10	
1507318	444042	6407708	BC/DS		light brown-orange	10	6	rounded	20	
1507319	444088	6407709	BC/DS		orange rust	30	15	angular	25	
1507320	444136	6407702	BC/DS		light brown	25	15	angular	35	
1507321	444179	6407705	BC/DS		brown	15	8	angular	30	
1507322	444219	6407699	BC/DS		light brown	45	10	angular	50	
1507323	444265	6407698	BC/DS		light-medium brown	25	15	angular	40	
1507324	444301	6407706	BC/DS		medium brown-orange	45	50	angular	35	
1507325	444343	6407701	BC/DS		red-medium brown	15	5	angular	25	
1507326	444380	6407703	BC/DS		red-medium brown	30	10	angular	25	
1507327	444419	6407706	BC/DS		medium brown	50	60	angular	50	
1507328	444460	6407707	BC/DS		dark brown	50	50	angular	40	
1507329	444450	6407803	BC/DS		medium brown	70	5	angular	65	

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag_%	Other
1507330	444402	6407799	BC/DS		medium brown	12	5	angular	20	
1507331	444352	6407798	BC/DS		medium brown	12	5	angular	65	
1507332	444304	6407798	BC/DS		red-medium brown	30	10	angular	23	
1507333	444253	6407800	BC/DS		light brown	10	3	angular	67	
1507334	444200	6407798	BC/DS		medium brown	45	10	angular	75	
1507335	444151	6407801	BC/DS		light brown	40	20	angular	75	
1507336	444097	6407800	BC/DS		dark brown	30	25	angular	25	
1507337	444049	6407799	BC/DS		medium brown-orange	45	10	subangular	20	
1507338	443998	6407800	BC/DS		medium brown	35	5	rounded	5	20% clay
1507339	443949	6407800	BC/DS		medium brown-orange	45	10	angular	20	
1507340	443899	6407800	BC/DS		medium brown-orange	35	5	angular	25	
1507341	443849	6407798	BC/DS		brown	45	10		0	
1507342	443801	6407804	BC/DS		light brown	30	5		0	
1507343	443762	6407803	BC/DS		dark brown	65	45	rounded	5	
1507344	443700	6407805	BC/DS		dark brown	55	20		0	
1507345	443653	6407805	BC/DS		light brown	45	20	rounded	5	
1507346	443601	6407799	BC/DS		light brown	35	15		0	
1507347	443554	6407800	BC/DS		dark brown	50	25		0	
1507348	443500	6407801	BC/DS		dark brown-grey	60	25		0	25% clay
1507349	443449	6407799	BC/DS		light brown-orange	30	10	rounded	20	
1507350	443392	6407804	BC/DS		dark brown	60	30		0	In swamp
1507401	443349	6407800	BC/DS		dark brown	100	30		0	
1507402	443303	6407801	BC/DS		dark brown-grey	100	30		0	50% clay
1507403	443251	6407800	BC/DS		dark brown-grey	90	30		0	20% clay
1507404	443199	6407796	BC/DS		dark brown	30	10		0	
1507405	443154	6408001	JN/BC		light brown	60	15		0	90% clay, in swamp
1507406	443202	6408000	JN/BC		dark brown	90	10		0	90% clay, in swamp
1507407	443252	6407996	JN/BC		dark brown	50	10		0	90% clay, in swamp
1507408	443300	6407999	JN/BC		brown	75	10	subangular	60	20% blue-grey clay. In swamp
1507409	443355	6408004	JN/BC		dark brown	90	90		0	In swamp, poor sample
1507410	443408	6408000	JN/BC		light brown	50	0	angular	50	50% clay
1507411	443448	6408010	JN/BC		dark brown	75	5		0	95 % brown/red clay
1507412	443521	6407995	JN/BC		light brown	50	10	subangular	40	50% clay
1507413	443553	6408000	JN/BC		light brown	50	10	subangular	30	60% clay
1507414	443599	6408001	JN/BC		medium brown	25	25	subangular	35	
1507415	443715	6408021	JN/BC		dark brown	100	90		0	10% clay, In marsh
1507416	443762	6408006	JN/BC		light brown-grey	130	10	subangular	15	clay
1507417	443806	6407996	JN/BC		light brown	35	60	subangular	10	
1507418	443853	6408003	JN/BC		light brown-orange	35	30	angular	15	

Appendix 2 - Soil Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description	Colour	Depth_cm	Organics_%	Frag_Angularity	Frag%_%	Other
1507419	443893	6408003	JN/BC		red-orange	50	10	subangular	15	
1507420	443952	6407996	JN/BC		red-orange	40	20	angular	20	dry
1507421	444000	6408002	JN/BC		orange-brown	40	10	subrounded	20	dry
1507422	444051	6407992	JN/BC		brown-red	50	15	angular	40	dry
1507423	444097	6408000	JN/BC		brown-orange	50	30	angular	20	dry
1507424	444147	6407992	JN/BC		orange-brown	35	45	angular	35	dry
1507425	444408	6408097	JN/BC		brown-orange	25	50	subangular	30	
1507426	444456	6408103	JN/BC		brown	35	50	subangular	40	
1507427	444504	6408105	JN/BC		dark brown	25	60	subangular	30	
1507428	444539	6408110	JN/BC		brown	30	30	angular	50	
1507429	444599	6408101	JN/BC		medium brown-orange	40	30	angular	55	

## **Appendix 3**

### Soil Sample Assay Certificates



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Colorado Resources Ltd.**

110 - 2300 Carrington Road  
West Kelowna BC V4T 2N6 Canada

Submitted By: Greg Dawson

Receiving Lab: Canada-Whitehorse

Received: August 29, 2012

Report Date: October 23, 2012

Page: 1 of 6

# CERTIFICATE OF ANALYSIS

WHI12000791.2

## CLIENT JOB INFORMATION

Project: North\_Rok  
Shipment ID:  
P.O. Number  
Number of Samples: 145

## SAMPLE DISPOSAL

RTRN-PLP Return  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Colorado Resources Ltd.  
110 - 2300 Carrington Road  
West Kelowna BC V4T 2N6  
Canada

CC: Linda Dandy  
Jessica Norris  
Allan Jacobs

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	143	Dry at 60C			WHI
SS80	143	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	143	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
3B01	139	Fire assay fusion Au by ICP-ES	30	Completed	VAN

## ADDITIONAL COMMENTS

Version 2: 3B01 included.



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Project: North\_Rok  
 Report Date: October 23, 2012

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CERTIFICATE OF ANALYSIS

WHI12000791.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1554051	Soil		1.7	122.5	15.7	112	0.5	71.7	26.1	1271	6.37	9.8	28.0	2.8	116	0.6	0.6	0.4	91	1.12	0.133	25
1554052	Soil		1.7	104.4	12.9	107	0.3	61.9	25.6	1261	6.15	7.3	26.3	2.9	57	0.4	0.5	0.3	87	0.74	0.112	24
1554053	Soil		1.8	79.1	6.7	111	0.2	66.0	28.5	1179	6.35	4.8	15.4	3.5	99	0.4	0.4	0.1	99	0.93	0.126	28
1554054	Soil		2.0	65.3	7.1	121	0.1	66.0	28.0	1235	6.60	3.9	14.5	3.8	97	0.5	0.4	0.1	108	0.82	0.131	29
1554055	Soil		2.0	50.6	7.1	103	<0.1	60.9	26.0	870	6.31	3.7	2.8	3.7	83	0.3	0.4	<0.1	105	0.64	0.100	31
1554056	Soil		1.6	42.4	6.0	94	<0.1	69.3	28.5	1033	6.51	3.3	4.1	4.2	67	0.4	0.3	<0.1	112	0.59	0.122	35
1554057	Soil		1.6	39.5	5.3	103	<0.1	66.0	30.3	1282	6.72	2.7	1.1	3.7	68	0.4	0.2	<0.1	103	0.59	0.110	30
1554058	Soil		1.8	48.9	9.1	117	<0.1	73.3	30.1	1373	6.83	3.9	3.0	4.2	50	0.5	0.4	<0.1	109	0.44	0.138	27
1554059	Soil		1.6	41.7	5.2	91	<0.1	64.6	28.7	1148	6.74	3.3	1.0	4.0	45	0.3	0.3	<0.1	103	0.42	0.103	31
1554060	Soil		1.7	38.3	5.7	117	<0.1	53.6	26.0	1224	6.24	3.3	1.0	4.4	73	0.4	0.2	<0.1	90	0.61	0.104	35
1554061	Soil		1.6	43.2	5.1	115	<0.1	77.5	31.5	1229	6.87	2.9	1.1	4.1	72	0.5	0.3	<0.1	103	0.60	0.116	28
1554062	Soil		1.8	44.3	6.9	117	<0.1	82.4	31.9	1398	6.67	3.8	1.1	3.7	69	0.4	0.4	<0.1	103	0.56	0.122	28
1554063	Soil		1.7	36.8	5.2	111	<0.1	68.6	27.6	1107	6.38	2.7	1.9	3.5	66	0.3	0.3	<0.1	100	0.58	0.096	26
1554064	Soil		1.7	46.3	6.5	98	0.1	62.3	27.0	1144	6.67	3.5	3.4	3.3	78	0.2	0.3	0.1	108	0.67	0.111	30
1554065	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1554066	Soil		1.6	68.3	14.7	113	0.1	91.4	26.7	1297	6.56	7.0	3.0	4.0	50	0.4	0.7	<0.1	94	0.43	0.110	24
1554284	Soil		2.6	126.6	11.1	146	0.3	45.0	18.9	871	5.24	28.0	7.5	2.0	59	0.5	1.8	0.1	114	0.73	0.100	24
1554285	Soil		1.9	83.3	10.2	103	0.2	54.0	21.6	1061	5.35	23.5	6.1	2.3	94	0.5	1.3	<0.1	120	1.06	0.104	20
1554286	Soil		1.4	65.1	9.5	54	0.2	64.8	27.8	1978	6.19	6.3	15.9	2.1	73	0.3	0.5	0.2	90	0.62	0.111	19
1554287	Soil		1.2	55.4	22.7	61	0.1	36.1	14.3	1048	4.73	10.4	49.6	1.6	29	0.3	0.8	0.3	69	0.27	0.062	16
1554288	Soil		1.4	34.5	8.2	52	<0.1	55.6	25.7	1713	5.80	3.8	3.1	3.1	51	0.2	0.3	0.2	87	0.48	0.098	22
1554289	Soil		1.1	39.1	6.5	47	0.1	56.8	28.0	1290	7.12	2.3	2.9	3.4	73	0.2	0.2	<0.1	103	0.57	0.081	32
1554290	Soil		1.2	64.4	15.0	58	0.2	40.3	17.2	1611	4.35	7.7	9.2	1.4	49	0.2	0.6	0.3	66	0.56	0.078	18
1554291	Soil		1.8	140.1	25.2	98	0.3	50.4	22.4	1922	5.70	11.1	46.2	3.0	35	0.4	0.8	0.5	81	0.42	0.119	24
1554292	Soil		1.5	33.7	44.4	74	0.2	31.6	15.0	2068	3.66	6.4	5.5	2.0	136	0.8	0.5	<0.1	46	2.51	0.105	30
1554293	Soil		1.8	31.2	22.9	65	0.2	40.5	20.1	1507	4.39	3.2	4.4	1.8	101	0.6	0.3	<0.1	68	1.24	0.104	20
1554294	Soil		1.9	157.4	16.5	84	0.6	44.7	19.8	1543	5.91	14.1	49.2	2.0	55	0.4	0.8	0.6	67	0.59	0.115	23
1554295	Soil		3.6	18.4	20.1	66	0.4	8.7	4.8	372	4.44	18.0	1.9	1.6	17	0.6	0.9	0.6	123	0.06	0.093	12
1554296	Soil		3.4	39.6	23.4	86	1.3	19.5	11.0	464	6.26	26.2	7.2	1.2	26	1.1	0.9	0.4	145	0.15	0.087	7
1554297	Soil		9.8	79.9	24.7	105	0.3	17.4	8.3	358	7.43	41.3	16.1	1.6	18	0.5	1.2	0.8	129	0.08	0.227	9

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	
1554051	Soil	61	1.36	721	0.471	3	3.17	0.269	0.22	0.1	0.05	10.8	<0.1	<0.05	10	1.1	0.3	48
1554052	Soil	54	1.16	574	0.437	3	2.99	0.074	0.10	<0.1	0.07	8.7	<0.1	<0.05	10	0.5	<0.2	69
1554053	Soil	59	1.39	363	0.566	2	3.49	0.222	0.17	0.1	0.03	9.4	<0.1	<0.05	12	<0.5	<0.2	14
1554054	Soil	60	1.28	265	0.580	1	3.86	0.232	0.16	0.1	0.03	9.7	<0.1	<0.05	14	<0.5	<0.2	<2
1554055	Soil	60	0.97	205	0.545	2	3.93	0.148	0.09	0.1	0.04	9.5	<0.1	<0.05	14	0.5	<0.2	<2
1554056	Soil	64	1.40	216	0.656	1	4.19	0.096	0.08	0.1	0.03	11.0	<0.1	<0.05	14	<0.5	<0.2	<2
1554057	Soil	61	1.35	171	0.616	2	3.91	0.107	0.08	<0.1	0.02	8.2	<0.1	<0.05	14	<0.5	<0.2	<2
1554058	Soil	65	1.37	162	0.610	2	4.41	0.129	0.10	0.1	0.03	10.0	<0.1	<0.05	14	<0.5	<0.2	<2
1554059	Soil	61	1.16	154	0.591	1	4.86	0.046	0.04	0.1	0.03	9.4	<0.1	<0.05	15	<0.5	<0.2	<2
1554060	Soil	48	1.05	170	0.511	1	3.65	0.095	0.08	0.1	0.02	7.5	<0.1	<0.05	14	<0.5	<0.2	<2
1554061	Soil	64	1.56	173	0.633	1	3.81	0.156	0.11	0.1	0.02	8.7	<0.1	<0.05	13	<0.5	<0.2	<2
1554062	Soil	64	1.70	197	0.602	1	3.35	0.183	0.13	0.1	0.03	8.6	<0.1	<0.05	12	<0.5	<0.2	<2
1554063	Soil	62	1.37	216	0.548	1	3.38	0.115	0.08	<0.1	0.02	7.6	<0.1	<0.05	13	<0.5	<0.2	<2
1554064	Soil	62	1.04	200	0.603	2	4.24	0.050	0.07	0.1	0.05	9.3	<0.1	0.06	14	<0.5	<0.2	<2
1554065	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1554066	Soil	68	1.51	552	0.513	2	3.79	0.078	0.14	0.1	0.05	11.5	<0.1	<0.05	12	<0.5	<0.2	<2
1554284	Soil	52	0.74	141	0.205	3	3.67	0.041	0.05	<0.1	0.12	10.9	<0.1	0.08	13	1.6	<0.2	<2
1554285	Soil	50	1.14	177	0.265	4	3.44	0.100	0.09	<0.1	0.09	10.7	<0.1	<0.05	14	1.0	<0.2	<2
1554286	Soil	52	1.09	684	0.405	2	3.65	0.056	0.08	<0.1	0.07	7.6	<0.1	0.10	12	0.6	0.2	12
1554287	Soil	34	0.91	449	0.159	1	1.96	0.015	0.07	0.1	0.08	7.9	<0.1	<0.05	6	<0.5	<0.2	12
1554288	Soil	51	0.88	310	0.468	<1	4.29	0.037	0.04	0.2	0.06	6.8	<0.1	<0.05	14	<0.5	<0.2	<2
1554289	Soil	69	0.98	322	0.688	<1	5.14	0.047	0.04	<0.1	0.05	8.3	<0.1	<0.05	14	<0.5	<0.2	<2
1554290	Soil	31	1.03	719	0.167	1	2.03	0.018	0.08	<0.1	0.10	7.1	<0.1	<0.05	7	<0.5	<0.2	3
1554291	Soil	42	1.12	755	0.273	2	3.01	0.022	0.12	0.1	0.12	10.3	<0.1	<0.05	10	0.9	0.3	66
1554292	Soil	34	0.48	313	0.259	6	2.06	0.124	0.11	<0.1	0.09	5.1	<0.1	0.18	6	0.8	<0.2	I.S.
1554293	Soil	46	0.67	274	0.332	2	2.35	0.044	0.07	<0.1	0.08	5.2	<0.1	0.15	9	<0.5	<0.2	<2
1554294	Soil	39	0.90	714	0.254	2	2.38	0.032	0.10	<0.1	0.14	9.5	<0.1	<0.05	8	1.2	0.5	30
1554295	Soil	20	0.21	99	0.151	<1	1.31	0.012	0.06	0.5	0.03	2.8	<0.1	<0.05	20	<0.5	<0.2	<2
1554296	Soil	27	0.78	141	0.191	1	2.11	0.017	0.05	0.3	0.05	5.5	<0.1	<0.05	16	<0.5	<0.2	<2
1554297	Soil	27	0.54	102	0.169	1	1.81	0.016	0.06	0.6	0.04	3.4	<0.1	<0.05	20	1.2	0.3	<2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1554298	Soil		8.2	45.1	20.6	71	0.7	11.8	5.8	306	5.15	21.2	7.6	0.7	17	0.6	1.0	0.6	121	0.08	0.086	8
1554299	Soil		13.9	75.7	29.8	91	0.4	12.8	6.2	333	6.87	27.7	17.8	3.6	14	0.3	1.1	0.6	78	0.07	0.098	12
1554300	Soil		3.7	18.7	16.1	135	0.4	12.8	7.0	289	4.71	18.3	2.5	1.5	15	0.8	0.7	0.5	87	0.09	0.062	10
1554210	Soil		4.8	32.1	15.6	96	0.5	22.9	9.8	432	6.21	19.5	4.9	1.7	19	0.6	0.8	0.4	110	0.08	0.075	10
1554211	Soil		3.7	51.3	18.4	130	0.4	40.4	13.5	441	6.46	18.4	8.2	1.4	23	0.7	0.8	0.4	99	0.15	0.096	8
1554212	Soil		9.3	36.4	17.8	112	0.3	19.0	7.1	292	6.48	21.0	12.8	2.2	17	0.3	0.8	0.6	86	0.08	0.070	13
1554213	Soil		5.3	28.2	18.7	108	0.4	13.7	7.9	347	6.10	18.2	9.0	1.5	14	0.9	0.8	0.5	122	0.07	0.090	9
1554214	Soil		7.9	72.3	20.0	97	0.5	28.0	11.5	360	7.22	30.2	14.6	1.8	20	0.5	0.9	0.6	116	0.09	0.078	9
1554215	Soil		4.6	47.9	16.6	103	0.9	25.8	10.8	346	6.21	25.3	*	1.6	19	0.5	0.7	0.4	87	0.12	0.124	9
1554216	Soil		6.1	73.2	16.3	91	0.4	29.0	12.3	291	5.15	28.4	11.5	1.0	23	0.4	1.0	0.5	108	0.12	0.052	5
1554217	Soil		5.7	49.6	16.6	184	0.2	29.6	14.2	476	5.51	17.7	*	2.6	21	0.9	0.7	0.4	64	0.15	0.087	13
1554218	Soil		6.6	154.1	18.2	66	0.3	31.8	15.0	279	4.92	35.8	17.7	0.9	36	0.2	1.0	0.5	113	0.24	0.040	4
1554219	Soil		7.0	324.5	17.7	74	0.3	23.5	9.9	261	5.11	26.6	59.9	0.9	24	0.1	0.9	0.4	103	0.16	0.091	4
1554220	Soil		7.1	576.4	19.8	101	1.2	40.1	18.1	366	6.48	18.9	114.4	2.1	19	0.3	0.8	0.4	132	0.13	0.138	6
1554376	Soil		8.8	318.0	21.1	104	0.5	20.1	12.3	279	5.30	36.8	32.5	1.0	72	0.3	0.9	0.5	117	0.49	0.096	4
1554377	Soil		4.1	136.4	13.5	81	0.2	47.3	21.8	359	5.17	21.1	58.3	1.4	39	0.3	0.6	0.4	95	0.33	0.081	6
1554378	Soil		4.5	168.1	13.8	59	0.2	31.3	16.9	468	4.45	26.3	34.8	0.9	36	0.2	0.7	0.4	84	0.41	0.090	4
1554379	Soil		2.1	42.9	12.8	110	0.3	42.8	19.3	392	4.66	18.2	8.7	1.7	22	0.5	0.7	0.4	83	0.19	0.071	7
1554380	Soil		1.8	19.6	10.8	100	0.3	34.9	13.3	438	4.28	11.6	3.7	0.9	25	0.5	0.8	0.2	79	0.31	0.090	6
1554381	Soil		1.9	23.3	14.0	121	0.6	44.4	21.7	1756	4.79	10.7	<0.5	1.4	22	1.1	0.8	0.2	80	0.24	0.069	7
1554401	Soil		2.3	16.2	13.4	136	0.4	21.1	10.2	373	4.64	7.5	<0.5	1.5	19	1.1	0.6	0.2	76	0.19	0.057	9
1554402	Soil		2.7	38.5	13.0	131	0.2	30.0	18.2	396	4.57	13.7	9.2	1.2	29	0.5	0.5	0.3	85	0.36	0.069	7
1554403	Soil		3.2	20.0	16.4	74	0.3	14.4	10.5	474	4.77	10.3	2.3	2.0	12	0.5	0.5	0.4	76	0.12	0.069	12
1554404	Soil		4.3	23.2	18.1	122	0.3	16.7	15.6	582	5.14	13.0	4.5	1.6	15	0.8	0.6	0.4	95	0.10	0.065	10
1554405	Soil		23.4	166.4	21.9	131	0.4	16.9	21.3	398	6.59	26.8	44.6	1.0	32	0.9	0.8	0.4	159	0.21	0.079	5
1554406	Soil		11.3	687.9	20.5	52	0.8	27.7	9.5	207	5.47	32.5	131.4	1.5	26	0.2	0.9	0.3	90	0.11	0.131	4
1554407	Soil		6.7	189.8	19.7	96	2.4	10.3	6.5	287	5.40	15.5	168.1	1.2	16	0.4	0.6	0.4	109	0.10	0.183	6
1554408	Soil		5.9	697.8	10.5	62	1.5	7.8	3.8	227	4.80	16.1	170.4	2.3	18	0.4	0.5	0.3	45	0.13	0.145	14
1554409	Soil		3.0	15.8	15.4	72	0.2	10.1	7.3	297	3.64	12.5	8.0	1.1	15	0.8	0.6	0.4	87	0.11	0.042	8
1554410	Soil		4.2	17.3	16.5	135	0.3	11.2	6.3	309	4.79	12.3	2.3	1.4	8	1.1	0.6	0.4	72	0.06	0.079	13

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Project: North\_Rok  
 Report Date: October 23, 2012

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Au
Unit	MDL	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	
1554298	Soil	24	0.30	100	0.133	<1	1.71	0.015	0.05	0.3	0.06	2.9	<0.1	<0.05	17	0.6	0.3	<2
1554299	Soil	25	0.37	94	0.145	1	4.89	0.037	0.06	0.6	0.08	4.6	<0.1	<0.05	19	1.4	<0.2	9
1554300	Soil	21	0.26	105	0.121	<1	1.56	0.015	0.05	0.4	0.03	2.3	<0.1	<0.05	17	<0.5	<0.2	<2
1554210	Soil	35	0.55	155	0.190	1	2.04	0.018	0.07	0.4	0.03	4.0	<0.1	<0.05	19	<0.5	<0.2	5
1554211	Soil	43	0.80	183	0.151	2	2.80	0.017	0.07	0.2	0.05	5.2	<0.1	<0.05	15	<0.5	<0.2	<2
1554212	Soil	29	0.40	103	0.133	<1	2.03	0.016	0.07	0.5	0.03	2.8	<0.1	<0.05	25	<0.5	<0.2	<2
1554213	Soil	30	0.29	104	0.236	1	1.46	0.016	0.05	0.4	0.03	3.0	<0.1	<0.05	19	<0.5	<0.2	10
1554214	Soil	36	0.55	123	0.161	<1	2.57	0.014	0.05	0.6	0.07	4.0	<0.1	<0.05	21	0.9	<0.2	15
1554215	Soil	30	0.47	119	0.111	2	2.30	0.012	0.06	0.5	0.06	3.3	<0.1	<0.05	15	<0.5	<0.2	5
1554216	Soil	33	0.69	107	0.082	2	2.13	0.009	0.06	0.4	0.03	3.9	<0.1	<0.05	11	0.9	<0.2	18
1554217	Soil	29	0.43	129	0.095	1	2.44	0.018	0.08	0.6	0.03	2.8	<0.1	<0.05	17	<0.5	<0.2	7
1554218	Soil	29	0.81	115	0.089	<1	2.08	0.011	0.05	0.3	0.02	4.4	<0.1	<0.05	8	0.8	<0.2	23
1554219	Soil	25	0.68	127	0.102	2	2.24	0.009	0.04	0.3	0.04	3.9	<0.1	<0.05	9	0.8	0.2	49
1554220	Soil	39	0.73	123	0.291	<1	3.10	0.014	0.05	0.3	0.06	5.4	<0.1	<0.05	13	0.6	<0.2	35
1554376	Soil	25	0.66	118	0.102	1	2.53	0.012	0.05	0.4	0.04	4.4	<0.1	0.06	10	0.9	<0.2	42
1554377	Soil	35	0.79	145	0.134	<1	2.31	0.012	0.07	0.4	0.02	4.2	<0.1	<0.05	10	1.3	<0.2	74
1554378	Soil	24	0.88	133	0.092	<1	1.63	0.013	0.06	0.2	0.03	4.5	<0.1	<0.05	6	1.7	0.2	25
1554379	Soil	34	0.69	139	0.107	1	2.26	0.014	0.08	0.3	0.02	3.9	<0.1	<0.05	10	<0.5	<0.2	9
1554380	Soil	35	0.55	186	0.062	1	1.96	0.008	0.11	0.2	0.05	3.5	<0.1	<0.05	9	<0.5	<0.2	<2
1554381	Soil	38	0.54	257	0.120	2	1.73	0.011	0.10	0.2	0.04	4.4	<0.1	<0.05	8	<0.5	<0.2	8
1554401	Soil	29	0.27	173	0.132	1	1.48	0.013	0.06	0.3	0.03	2.2	<0.1	<0.05	14	<0.5	<0.2	<2
1554402	Soil	30	0.52	86	0.130	1	1.69	0.011	0.08	0.3	0.02	3.1	<0.1	<0.05	12	<0.5	<0.2	5
1554403	Soil	21	0.23	102	0.171	<1	1.16	0.013	0.07	0.6	0.02	1.8	<0.1	<0.05	18	<0.5	<0.2	<2
1554404	Soil	25	0.26	127	0.173	<1	1.42	0.011	0.05	0.4	0.02	2.2	<0.1	<0.05	19	<0.5	<0.2	<2
1554405	Soil	28	0.46	110	0.240	2	1.68	0.013	0.05	0.4	0.03	2.9	<0.1	<0.05	17	0.7	<0.2	55
1554406	Soil	34	0.56	113	0.087	1	4.13	0.009	0.05	0.4	0.08	4.9	<0.1	0.07	7	2.2	<0.2	94
1554407	Soil	22	0.24	108	0.198	<1	1.32	0.011	0.04	0.3	0.06	2.2	<0.1	<0.05	18	0.6	0.2	99
1554408	Soil	19	0.14	97	0.073	<1	2.43	0.016	0.05	0.6	0.07	2.3	<0.1	<0.05	16	1.5	<0.2	145
1554409	Soil	20	0.28	126	0.162	<1	0.94	0.011	0.05	0.4	<0.01	2.3	<0.1	<0.05	13	<0.5	<0.2	4
1554410	Soil	19	0.18	89	0.126	<1	1.03	0.012	0.06	0.4	0.01	1.6	<0.1	<0.05	20	<0.5	<0.2	<2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1554411	Soil		4.7	70.5	17.2	85	0.2	31.8	12.7	294	4.82	25.8	15.6	0.8	28	0.3	0.9	0.4	103	0.14	0.048	4
1554412	Soil		6.8	36.0	17.7	79	0.3	14.0	6.9	249	5.03	12.4	3.4	1.9	9	0.3	0.6	0.4	80	0.05	0.061	12
1554413	Soil		3.8	21.5	17.1	128	0.2	15.6	6.9	268	4.57	15.1	4.5	1.1	14	0.7	0.8	0.5	114	0.06	0.060	8
1554414	Soil		4.3	53.0	15.5	111	0.4	34.6	13.5	400	7.18	22.4	9.6	1.6	17	0.4	0.7	0.4	115	0.12	0.094	6
1554415	Soil		4.7	28.3	14.2	126	0.2	23.7	7.8	331	6.14	18.3	2.6	2.2	13	0.4	0.7	0.3	81	0.08	0.078	11
1554416	Soil		2.5	56.8	11.3	61	0.1	29.0	12.4	389	3.66	17.9	3.7	1.0	41	0.2	0.7	0.3	87	0.35	0.066	6
1554417	Soil		3.2	42.7	13.0	113	0.3	40.3	14.1	408	5.41	14.1	1.9	1.5	20	0.4	0.6	0.3	85	0.18	0.070	10
1554418	Soil		3.7	22.6	14.9	95	0.1	18.7	7.5	340	5.52	19.8	2.2	1.2	15	0.7	0.6	0.4	132	0.10	0.126	8
1554419	Soil		4.2	20.6	15.6	122	0.3	24.7	7.7	313	4.99	13.8	2.5	1.9	19	0.3	0.5	0.3	86	0.13	0.119	11
1554420	Soil		2.6	43.1	13.7	120	0.5	31.9	12.6	434	5.17	15.5	25.9	1.3	24	0.7	0.5	0.3	88	0.23	0.174	7
1554421	Soil		4.0	19.2	18.8	56	0.3	6.5	3.1	152	2.29	11.1	0.7	1.3	14	0.3	0.3	0.4	68	0.09	0.054	12
1554422	Soil		4.1	58.4	13.8	102	0.3	26.0	10.2	296	5.80	37.7	19.1	1.0	20	0.5	0.8	0.5	114	0.11	0.118	5
1554423	Soil		3.5	80.9	14.4	117	0.2	46.8	17.3	410	6.00	24.3	19.0	2.1	20	0.4	0.7	0.3	98	0.17	0.094	6
1554424	Soil		4.4	131.8	13.7	155	0.3	44.5	17.0	398	5.02	22.1	*	2.2	33	0.4	0.8	0.5	75	0.26	0.107	8
1554425	Soil		14.8	258.7	18.5	91	0.2	14.9	7.7	241	5.45	29.9	335.8	1.0	43	0.4	0.9	0.5	131	0.28	0.089	6
1554426	Soil		3.2	74.9	15.8	109	0.5	25.7	16.0	285	4.66	22.1	14.6	0.9	32	0.7	0.7	0.4	113	0.24	0.053	5
1554427	Soil		5.0	73.6	16.2	106	0.5	21.1	13.8	288	5.85	15.7	30.3	1.3	25	0.5	0.6	0.4	108	0.15	0.061	7
1554428	Soil		3.9	42.6	12.3	75	0.4	18.0	12.4	267	4.58	22.0	11.8	0.8	26	0.7	0.9	0.5	121	0.21	0.055	4
1554429	Soil		2.4	48.0	16.0	79	0.3	25.0	22.3	721	4.05	10.3	16.2	1.1	29	0.9	0.5	0.3	81	0.21	0.080	6
1554430	Soil		4.1	39.6	13.2	93	0.2	29.0	14.7	384	5.37	18.4	3.1	1.0	17	0.4	0.8	0.5	117	0.10	0.053	6
1554431	Soil		2.6	20.9	14.8	148	0.5	27.6	20.0	297	5.13	7.1	<0.5	3.3	10	0.7	0.4	0.3	67	0.09	0.045	12
1554432	Soil		2.6	20.7	12.4	114	0.6	37.5	24.4	1068	6.19	3.6	2.9	3.3	43	0.6	0.3	0.3	80	0.48	0.065	14
1554351	Soil		1.8	14.9	13.7	177	0.3	29.8	13.1	736	5.64	18.1	3.6	1.4	17	0.7	0.8	0.3	80	0.26	0.151	9
1554352	Soil		3.4	32.3	8.4	49	<0.1	37.2	7.9	225	3.31	9.6	<0.5	1.2	24	0.1	0.5	0.2	65	0.40	0.054	6
1554353	Soil		2.8	33.1	13.8	105	0.3	24.6	13.1	367	4.76	19.6	44.7	1.1	22	0.7	0.6	0.3	82	0.27	0.062	6
1554354	Soil		4.7	53.9	13.2	116	0.2	73.0	23.2	604	6.30	13.7	5.9	2.8	25	0.6	0.5	0.2	76	0.33	0.066	9
1554355	Soil		3.6	89.9	14.6	115	0.3	27.5	15.3	320	6.24	27.6	26.8	1.2	24	0.5	0.7	0.4	101	0.22	0.078	6
1554356	Soil		9.2	402.8	19.9	59	0.9	19.5	7.9	252	7.34	39.5	276.4	1.7	50	0.2	1.1	0.4	116	0.15	0.139	7
1554357	Soil		31.2	1982	19.6	71	1.4	16.3	10.0	268	7.34	53.1	121.7	2.0	37	0.2	0.9	0.4	72	0.27	0.178	10
1554358	Soil		10.6	192.0	24.8	118	0.5	23.1	42.2	948	5.79	29.7	20.3	1.2	34	1.0	0.6	0.5	113	0.16	0.071	7

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B	
			Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
			1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	
1554411	Soil		34	0.71	118	0.081	<1	2.20	0.009	0.06	0.2	0.02	4.3	<0.1	<0.05	9	<0.5	<0.2	18
1554412	Soil		24	0.22	110	0.164	<1	1.77	0.015	0.05	0.5	0.05	2.5	<0.1	<0.05	19	<0.5	<0.2	<2
1554413	Soil		26	0.30	103	0.171	<1	1.37	0.011	0.05	0.3	0.02	2.6	<0.1	<0.05	16	<0.5	<0.2	6
1554414	Soil		39	0.76	125	0.193	1	2.51	0.011	0.05	0.4	0.05	4.7	<0.1	<0.05	16	0.8	<0.2	4
1554415	Soil		33	0.44	108	0.134	1	2.24	0.017	0.07	0.5	0.04	3.2	<0.1	<0.05	18	0.5	<0.2	6
1554416	Soil		24	0.88	123	0.102	<1	1.82	0.013	0.05	0.2	0.03	5.1	<0.1	<0.05	7	0.6	<0.2	13
1554417	Soil		37	0.72	144	0.155	2	2.20	0.015	0.06	0.3	0.04	4.4	<0.1	<0.05	13	<0.5	<0.2	3
1554418	Soil		32	0.42	130	0.152	<1	1.62	0.012	0.06	0.4	0.03	3.2	<0.1	<0.05	18	<0.5	<0.2	<2
1554419	Soil		33	0.40	144	0.134	2	1.81	0.015	0.07	0.5	0.04	2.8	<0.1	<0.05	19	<0.5	<0.2	<2
1554420	Soil		36	0.66	113	0.131	2	1.76	0.021	0.06	0.2	0.03	3.9	<0.1	<0.05	11	0.8	<0.2	14
1554421	Soil		17	0.14	103	0.130	1	0.82	0.013	0.06	0.3	0.02	1.9	<0.1	<0.05	14	<0.5	<0.2	<2
1554422	Soil		31	0.66	110	0.118	<1	2.10	0.010	0.06	0.3	0.04	4.0	<0.1	<0.05	12	0.6	<0.2	<2
1554423	Soil		42	0.86	106	0.206	2	3.71	0.016	0.05	0.3	0.03	4.9	<0.1	<0.05	12	1.4	<0.2	21
1554424	Soil		34	0.79	112	0.118	2	3.08	0.018	0.07	0.4	0.04	4.0	<0.1	<0.05	10	0.7	<0.2	3
1554425	Soil		28	0.53	168	0.200	1	1.31	0.020	0.08	1.0	0.02	3.4	<0.1	0.07	13	1.9	<0.2	221
1554426	Soil		29	0.67	158	0.117	<1	1.99	0.013	0.06	0.3	0.03	4.0	<0.1	<0.05	10	0.8	<0.2	<2
1554427	Soil		32	0.44	109	0.266	<1	1.60	0.013	0.06	0.4	0.02	2.5	<0.1	<0.05	14	<0.5	<0.2	9
1554428	Soil		26	0.42	68	0.165	<1	1.29	0.009	0.09	0.4	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2	<2
1554429	Soil		27	0.47	176	0.158	<1	1.28	0.012	0.08	0.2	0.02	3.1	<0.1	<0.05	9	<0.5	<0.2	19
1554430	Soil		37	0.57	133	0.193	<1	1.83	0.011	0.05	0.3	0.02	3.3	<0.1	<0.05	12	0.6	<0.2	<2
1554431	Soil		32	0.27	131	0.252	<1	2.10	0.019	0.06	0.3	0.01	1.8	<0.1	<0.05	17	<0.5	<0.2	<2
1554432	Soil		38	0.37	156	0.387	4	2.41	0.030	0.07	0.3	0.04	3.0	<0.1	<0.05	17	<0.5	<0.2	<2
1554351	Soil		34	0.54	191	0.075	6	1.66	0.011	0.11	0.4	0.02	3.1	<0.1	<0.05	13	0.6	<0.2	<2
1554352	Soil		39	0.75	138	0.060	3	1.50	0.012	0.04	0.1	0.01	4.0	<0.1	<0.05	6	1.0	<0.2	<2
1554353	Soil		29	0.57	97	0.097	5	1.44	0.012	0.09	0.2	0.04	2.8	<0.1	<0.05	10	0.5	<0.2	4
1554354	Soil		42	0.97	214	0.228	7	2.48	0.020	0.08	0.2	0.04	4.0	<0.1	<0.05	12	1.1	<0.2	<2
1554355	Soil		28	0.58	135	0.099	3	1.75	0.013	0.07	0.4	0.02	3.7	<0.1	<0.05	13	0.6	<0.2	21
1554356	Soil		25	0.84	166	0.125	6	3.44	0.018	0.07	1.2	0.06	4.9	<0.1	0.13	10	3.5	0.2	388
1554357	Soil		20	0.71	59	0.061	3	5.43	0.013	0.04	0.4	0.21	8.8	<0.1	0.11	8	11.9	0.2	4
1554358	Soil		26	0.36	173	0.105	4	1.87	0.014	0.05	0.3	0.03	2.8	<0.1	<0.05	13	0.6	0.2	<2

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Project: North\_Rok  
 Report Date: October 23, 2012

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CERTIFICATE OF ANALYSIS

WHI12000791.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.1	0.001	1
1554359	Soil		12.8	254.9	18.0	72	0.5	19.4	10.3	229	7.39	58.1	36.7	1.3	25	0.4	1.0	0.4	130	0.11	0.093	4
1554360	Soil		5.3	85.3	23.2	163	0.7	29.8	12.0	450	7.00	30.4	26.1	1.0	26	1.0	0.9	0.4	106	0.14	0.150	7
1554361	Soil		4.3	43.8	22.0	155	0.2	23.7	14.1	511	6.69	32.8	10.3	1.0	17	0.7	0.8	0.5	134	0.08	0.097	5
1554362	Soil		12.8	44.8	22.0	60	0.3	8.4	5.5	204	4.79	20.9	16.3	1.0	13	0.3	1.0	0.5	124	0.06	0.062	7
1554363	Soil		7.9	148.4	21.9	101	0.6	25.0	11.8	379	6.15	23.5	*	2.6	18	0.3	0.9	0.4	82	0.10	0.083	9
1554364	Soil		4.9	63.2	22.2	102	0.2	21.0	9.3	342	6.01	23.3	10.9	1.5	17	0.6	0.7	0.4	124	0.10	0.082	7
1554365	Soil		9.2	29.0	19.5	81	0.3	9.8	5.0	297	6.37	24.0	8.4	1.4	13	0.6	0.8	0.5	130	0.07	0.134	11
1554366	Soil		8.0	43.1	23.1	81	0.4	11.1	7.1	244	6.15	25.5	11.2	1.5	18	0.7	0.9	0.5	137	0.09	0.123	10
1554367	Soil		4.4	51.8	17.8	107	0.2	41.5	12.1	358	6.43	15.6	11.5	2.7	16	0.6	0.5	0.3	95	0.19	0.130	7
1554368	Soil		6.1	44.4	18.5	92	0.2	20.3	9.1	353	6.24	21.9	9.2	1.3	26	0.5	0.7	0.4	125	0.16	0.067	7
1554369	Soil		4.2	45.0	20.6	138	0.4	29.9	11.0	374	6.70	21.5	2.7	1.6	23	0.4	0.7	0.4	108	0.14	0.171	7
1554370	Soil		6.9	51.8	18.5	80	0.3	25.0	9.6	350	7.38	19.2	*	3.4	12	0.3	0.8	0.4	81	0.09	0.088	13
1554371	Soil		4.6	82.4	21.4	124	0.3	40.5	13.9	385	5.88	20.8	11.5	2.4	17	0.4	0.8	0.3	81	0.12	0.089	6
1554372	Soil		3.8	33.9	15.8	90	0.3	21.9	9.4	279	5.43	26.6	14.4	1.0	17	0.9	0.7	0.4	116	0.08	0.088	6
1554373	Soil		3.2	46.4	28.3	89	0.6	20.1	9.5	454	5.98	28.7	2.4	1.1	22	0.6	0.7	0.4	114	0.12	0.135	7
1554374	Soil		3.2	23.4	19.5	91	0.2	15.3	6.9	325	5.36	15.7	3.2	2.0	19	0.5	0.5	0.4	72	0.17	0.152	14
1554375	Soil		12.3	443.8	27.2	97	0.6	13.6	8.3	248	9.00	41.5	128.4	1.2	20	0.3	0.9	0.7	134	0.09	0.149	5
1554301	Soil		2.2	708.2	12.5	268	0.6	54.8	14.3	993	4.06	10.1	1.2	1.5	50	2.9	0.5	0.2	61	1.06	0.058	23
1554302	Soil		2.0	29.1	20.2	91	0.4	27.2	14.9	518	5.01	11.4	3.0	1.2	23	1.3	0.7	0.2	77	0.30	0.089	8
1554303	Soil		2.3	1894	13.3	63	0.2	24.5	19.3	391	5.57	22.7	12.1	0.8	60	0.3	0.5	0.7	108	1.01	0.153	16
1554304	Soil		1.9	50.9	13.9	58	0.3	22.8	13.5	326	4.93	22.2	3.9	1.0	31	0.3	0.6	0.4	115	0.34	0.059	4
1554305	Soil		3.9	85.5	13.6	53	0.3	17.5	9.4	269	5.95	38.6	29.9	1.0	39	0.2	0.8	0.4	128	0.25	0.085	6
1554306	Soil		2.7	174.1	19.0	50	0.7	16.8	10.8	246	5.56	24.5	76.0	1.1	31	0.2	0.8	0.4	125	0.17	0.069	5
1554307	Soil		3.3	201.5	19.2	66	1.0	14.9	10.6	257	6.36	30.1	458.7	0.8	39	0.4	0.8	0.5	143	0.18	0.114	4
1554308	Soil		4.5	389.7	20.6	128	0.9	27.9	28.5	897	6.69	33.9	72.0	1.4	64	0.4	0.9	0.5	119	0.41	0.186	5
1554309	Soil		7.5	1404	32.8	107	1.6	19.6	38.1	1595	8.20	44.1	508.8	0.5	76	0.7	0.9	0.7	132	0.42	0.292	7
1554310	Soil		5.2	891.8	23.4	89	2.2	22.7	14.9	416	7.37	54.5	235.6	1.7	35	0.2	1.2	0.5	109	0.18	0.155	6
1554311	Soil		7.0	615.9	24.6	117	0.6	23.5	47.7	864	6.87	50.3	44.8	0.5	93	0.5	1.4	0.9	126	0.39	0.134	5
1554312	Soil		6.0	196.9	23.0	90	0.4	23.7	14.8	325	6.99	46.8	25.6	1.5	43	0.5	1.5	0.7	137	0.12	0.080	6
1554313	Soil		3.9	166.4	35.1	171	0.7	23.7	17.6	362	5.63	40.1	12.9	1.4	40	0.9	1.5	0.9	126	0.15	0.056	5

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Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2	
1554359	Soil	29	0.61	98	0.128	3	2.95	0.011	0.04	0.5	0.09	4.6	<0.1	0.07	13	2.8	<0.2	43
1554360	Soil	33	0.88	159	0.086	4	2.59	0.018	0.07	0.4	0.03	4.0	<0.1	0.06	14	0.6	<0.2	<2
1554361	Soil	32	0.72	167	0.094	1	2.03	0.011	0.07	0.3	0.01	3.9	<0.1	<0.05	13	0.8	<0.2	<2
1554362	Soil	22	0.15	80	0.214	3	0.90	0.011	0.03	0.5	0.03	1.8	<0.1	<0.05	18	0.7	<0.2	3
1554363	Soil	30	0.57	108	0.109	4	2.93	0.017	0.05	0.4	0.08	4.0	<0.1	0.06	15	2.2	<0.2	8
1554364	Soil	29	0.53	97	0.188	3	1.78	0.014	0.04	0.4	0.04	3.4	<0.1	<0.05	17	0.8	<0.2	2
1554365	Soil	20	0.30	89	0.158	4	1.22	0.015	0.06	0.6	0.03	2.2	<0.1	0.05	25	1.4	<0.2	<2
1554366	Soil	21	0.32	92	0.200	3	1.35	0.012	0.06	0.6	0.04	2.1	<0.1	0.06	21	0.6	<0.2	<2
1554367	Soil	43	0.81	101	0.253	4	2.92	0.017	0.04	0.3	0.05	4.0	<0.1	<0.05	14	0.7	<0.2	<2
1554368	Soil	33	0.54	109	0.189	3	1.71	0.014	0.06	0.3	0.03	3.3	<0.1	<0.05	17	0.6	<0.2	<2
1554369	Soil	36	0.65	171	0.137	6	1.87	0.014	0.07	0.3	0.03	3.9	<0.1	<0.05	14	0.9	<0.2	<2
1554370	Soil	31	0.49	101	0.197	4	2.40	0.018	0.06	0.6	0.07	3.0	<0.1	0.06	23	0.9	<0.2	<2
1554371	Soil	38	0.78	125	0.113	5	3.36	0.016	0.04	0.3	0.05	4.4	<0.1	0.08	10	1.3	<0.2	11
1554372	Soil	31	0.52	139	0.138	2	1.66	0.012	0.06	0.5	0.03	3.2	<0.1	0.05	14	1.0	<0.2	<2
1554373	Soil	26	0.49	119	0.139	3	1.72	0.014	0.06	0.3	0.05	3.4	<0.1	0.08	14	<0.5	<0.2	2
1554374	Soil	24	0.31	127	0.140	4	1.31	0.015	0.08	0.7	0.03	1.8	<0.1	0.06	20	<0.5	<0.2	5
1554375	Soil	27	0.54	160	0.130	3	1.99	0.011	0.06	0.3	0.06	4.2	<0.1	0.08	17	1.2	0.3	125
1554301	Soil	28	0.37	197	0.075	4	1.51	0.016	0.07	0.2	0.06	5.2	<0.1	0.11	10	4.7	<0.2	<2
1554302	Soil	33	0.48	126	0.078	4	1.53	0.011	0.08	0.3	0.04	3.6	<0.1	0.05	10	0.9	<0.2	<2
1554303	Soil	26	0.96	137	0.088	5	2.38	0.022	0.06	0.3	0.05	7.2	<0.1	0.11	9	4.3	0.3	6
1554304	Soil	27	0.83	72	0.143	2	1.99	0.017	0.07	0.3	0.03	5.0	<0.1	0.07	9	0.6	<0.2	<2
1554305	Soil	25	0.59	128	0.146	5	1.66	0.014	0.07	0.5	0.04	3.8	<0.1	0.07	13	<0.5	<0.2	3
1554306	Soil	23	0.64	109	0.110	4	1.86	0.013	0.07	0.6	0.04	4.4	<0.1	0.07	9	1.1	<0.2	34
1554307	Soil	22	0.68	158	0.138	2	1.89	0.014	0.07	1.3	0.03	3.5	<0.1	0.09	13	1.1	0.3	168
1554308	Soil	29	0.77	141	0.139	4	2.78	0.015	0.12	0.4	0.05	4.4	<0.1	0.09	13	2.1	<0.2	56
1554309	Soil	24	0.72	192	0.056	5	2.69	0.013	0.07	0.2	0.08	5.1	<0.1	0.14	11	7.0	0.5	686
1554310	Soil	27	0.79	105	0.103	4	3.09	0.019	0.06	0.3	0.11	5.7	<0.1	0.14	10	6.7	<0.2	251
1554311	Soil	26	0.72	96	0.080	2	2.98	0.015	0.05	0.3	0.06	4.3	<0.1	0.10	13	2.1	0.2	47
1554312	Soil	32	0.83	79	0.123	1	3.40	0.016	0.04	0.4	0.08	5.3	<0.1	<0.05	13	1.6	0.4	24
1554313	Soil	31	0.78	89	0.112	1	3.50	0.012	0.04	0.4	0.05	6.2	<0.1	<0.05	11	1.2	<0.2	8

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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1554314	Soil	5.1	897.0	31.0	49	0.8	13.6	7.1	255	3.58	23.0	53.3	0.2	32	0.4	0.7	0.9	64	0.24	0.118	4
1554315	Soil	8.9	173.0	23.8	46	0.7	11.2	6.6	256	3.60	28.4	24.9	0.3	23	0.2	1.0	0.6	118	0.09	0.076	4
1554316	Soil	5.3	68.4	34.5	82	0.4	17.0	10.8	343	7.49	37.1	2.4	1.2	27	0.6	1.6	0.8	184	0.09	0.102	6
1554317	Soil	5.8	34.1	33.8	78	0.6	9.0	6.3	293	4.70	24.2	2.6	1.2	22	0.5	1.0	0.8	131	0.06	0.120	9
1554318	Soil	4.6	60.8	27.8	88	0.9	24.5	10.5	393	5.88	28.8	*	1.8	24	0.7	1.0	0.5	117	0.13	0.091	9
1554319	Soil	8.0	84.7	38.5	110	1.0	16.9	9.9	446	7.03	39.7	26.1	1.8	24	0.6	1.3	0.8	133	0.10	0.091	9
1554320	Soil	5.0	94.5	39.1	122	0.3	28.2	14.4	497	5.94	37.9	*	2.0	35	0.4	1.2	0.7	106	0.16	0.107	6
1554321	Soil	57.1	392.9	78.6	124	5.0	7.3	4.2	357	12.32	56.5	503.9	1.3	60	0.3	2.0	1.2	155	0.20	0.289	5
1554322	Soil	58.3	819.1	161.8	336	2.5	13.1	17.7	769	8.67	107.3	182.8	1.8	52	1.1	1.8	1.3	141	0.17	0.202	6
1554323	Soil	95.2	371.8	74.0	150	2.0	15.6	9.4	413	8.56	66.2	249.6	1.6	59	0.4	2.0	1.3	129	0.15	0.173	5
1554324	Soil	28.0	240.2	55.7	176	1.1	20.7	21.2	602	7.30	41.5	65.8	1.3	41	0.8	1.3	0.9	112	0.19	0.145	5
1554325	Soil	11.8	1265	23.5	92	0.9	19.4	15.9	219	4.67	28.5	35.7	2.6	27	0.4	1.0	0.4	72	0.11	0.210	12
1554326	Soil	13.6	244.9	36.8	95	0.8	20.1	12.7	326	6.12	45.5	52.5	0.9	60	0.3	1.3	0.7	131	0.26	0.113	5
1554327	Soil	8.5	95.4	25.5	72	0.7	14.8	10.2	260	5.04	22.4	164.1	1.6	34	0.4	0.9	0.4	107	0.14	0.095	5
1554328	Soil	21.7	268.8	17.4	426	0.2	23.0	38.6	1100	4.37	13.3	8.3	1.8	22	4.2	0.7	0.5	80	0.22	0.064	11
1554329	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1554330	Soil	9.6	915.0	12.5	1087	0.4	37.2	32.8	1462	3.50	8.4	5.2	0.9	38	26.0	0.5	0.4	65	1.08	0.129	10
1554331	Soil	2.2	34.5	21.7	99	0.4	31.0	15.7	485	4.90	18.4	<0.5	0.8	26	1.4	1.1	0.4	114	0.23	0.060	4
1554332	Soil	1.6	26.2	12.3	67	0.5	32.1	15.2	1217	3.68	13.8	3.6	0.8	34	1.1	0.9	0.2	71	0.68	0.050	5
1554281	Silt	1.3	141.4	11.9	96	0.3	41.2	27.9	1335	6.40	11.9	15.3	1.8	69	0.3	3.5	<0.1	127	0.75	0.178	16
1554282	Silt	2.1	104.9	13.0	107	0.3	60.7	27.5	1439	5.86	27.7	46.1	1.9	61	0.6	4.9	0.2	105	0.70	0.197	17
1554283	Silt	1.2	119.5	61.8	356	0.7	46.2	29.7	1418	5.76	78.5	50.7	1.4	47	2.5	4.6	0.5	105	0.64	0.160	12
1554086	Silt	1.1	126.0	61.8	368	1.2	43.6	29.7	1637	6.16	83.0	827.4	1.5	46	2.9	5.0	0.4	114	0.65	0.167	14
1554074	Silt	2.6	118.3	17.4	130	0.5	56.7	27.7	1447	5.63	34.1	53.1	2.0	56	0.7	5.5	0.3	98	0.66	0.194	17
1554170	Silt	1.7	66.2	12.6	108	0.1	68.2	27.5	1272	6.20	4.8	10.6	2.8	42	0.3	0.5	<0.1	138	0.74	0.142	19



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WHI12000791.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1554314	Soil	19	0.37	103	0.037	3	2.65	0.011	0.03	0.9	0.11	3.1	<0.1	0.13	6	2.3	0.2	70
1554315	Soil	21	0.24	66	0.116	<1	0.98	0.012	0.05	0.3	0.07	2.5	<0.1	0.05	10	1.0	0.2	15
1554316	Soil	27	0.59	124	0.180	2	2.14	0.016	0.05	0.5	0.04	4.1	<0.1	<0.05	16	1.8	<0.2	6
1554317	Soil	18	0.22	85	0.159	<1	1.15	0.014	0.05	0.5	0.04	2.5	<0.1	<0.05	19	0.8	<0.2	<2
1554318	Soil	31	0.61	106	0.161	1	2.62	0.015	0.04	0.5	0.08	4.6	<0.1	<0.05	18	1.4	<0.2	<2
1554319	Soil	27	0.62	83	0.179	2	2.41	0.015	0.06	0.7	0.06	4.3	<0.1	<0.05	23	1.3	<0.2	<2
1554320	Soil	30	0.78	149	0.099	2	2.66	0.014	0.05	0.4	0.06	4.9	<0.1	<0.05	11	1.4	0.2	<2
1554321	Soil	17	0.43	205	0.162	1	3.25	0.022	0.06	0.8	0.22	3.5	<0.1	0.09	20	9.4	0.4	492
1554322	Soil	17	0.84	106	0.102	<1	4.58	0.019	0.04	0.5	0.14	6.9	<0.1	<0.05	12	6.4	0.9	187
1554323	Soil	22	0.72	145	0.158	<1	2.91	0.025	0.06	0.6	0.12	4.7	<0.1	0.06	11	2.6	0.4	221
1554324	Soil	27	0.44	128	0.142	2	2.46	0.014	0.06	0.3	0.11	3.3	<0.1	<0.05	13	1.6	0.2	I.S.
1554325	Soil	23	0.47	83	0.093	<1	4.72	0.016	0.04	0.4	0.10	6.2	<0.1	<0.05	10	3.2	<0.2	52
1554326	Soil	25	0.83	143	0.129	<1	2.22	0.016	0.08	0.6	0.03	4.6	<0.1	0.11	11	1.3	0.2	114
1554327	Soil	24	0.47	127	0.170	1	2.51	0.020	0.05	0.5	0.05	4.1	<0.1	<0.05	12	1.3	<0.2	49
1554328	Soil	25	0.55	76	0.114	<1	1.72	0.017	0.09	0.3	0.02	4.1	<0.1	<0.05	12	2.7	<0.2	<2
1554329	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1554330	Soil	25	0.53	114	0.085	3	1.35	0.013	0.08	0.2	0.03	4.9	<0.1	<0.05	7	3.4	<0.2	<2
1554331	Soil	37	0.59	133	0.126	3	1.83	0.011	0.08	0.2	0.03	4.0	<0.1	<0.05	9	<0.5	<0.2	<2
1554332	Soil	30	0.55	287	0.058	2	1.38	0.009	0.12	0.2	0.04	3.9	<0.1	0.11	5	<0.5	<0.2	<2
1554281	Silt	26	1.42	326	0.090	6	2.09	0.043	0.12	<0.1	0.94	11.9	<0.1	0.09	7	1.7	<0.2	<2
1554282	Silt	24	1.31	251	0.059	2	1.59	0.018	0.10	<0.1	0.37	11.0	<0.1	<0.05	6	1.0	<0.2	I.S.
1554283	Silt	22	1.58	122	0.070	2	1.98	0.018	0.09	<0.1	0.31	9.6	<0.1	0.15	7	1.0	0.4	67
1554086	Silt	22	1.59	149	0.070	3	2.09	0.018	0.10	<0.1	0.35	10.2	<0.1	0.11	8	0.5	<0.2	149
1554074	Silt	21	1.17	271	0.059	3	1.78	0.022	0.12	<0.1	0.30	11.5	0.1	<0.05	6	0.7	<0.2	62
1554170	Silt	62	2.19	107	0.429	7	2.62	0.100	0.10	0.3	0.02	11.7	<0.1	<0.05	11	0.9	<0.2	I.S.







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Project: North\_Rok  
 Report Date: October 23, 2012

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2	
Pulp Duplicates																		
1554051	Soil	61	1.36	721	0.471	3	3.17	0.269	0.22	0.1	0.05	10.8	<0.1	<0.05	10	1.1	0.3	48
REP 1554051	QC																	41
1554053	Soil	59	1.39	363	0.566	2	3.49	0.222	0.17	0.1	0.03	9.4	<0.1	<0.05	12	<0.5	<0.2	14
REP 1554053	QC	61	1.45	372	0.555	2	3.59	0.225	0.17	0.1	0.03	9.7	<0.1	<0.05	12	<0.5	<0.2	
1554060	Soil	48	1.05	170	0.511	1	3.65	0.095	0.08	0.1	0.02	7.5	<0.1	<0.05	14	<0.5	<0.2	<2
REP 1554060	QC	46	1.03	162	0.495	<1	3.46	0.088	0.08	0.2	0.01	7.0	<0.1	<0.05	14	<0.5	<0.2	
1554062	Soil	64	1.70	197	0.602	1	3.35	0.183	0.13	0.1	0.03	8.6	<0.1	<0.05	12	<0.5	<0.2	<2
REP 1554062	QC																	<2
1554216	Soil	33	0.69	107	0.082	2	2.13	0.009	0.06	0.4	0.03	3.9	<0.1	<0.05	11	0.9	<0.2	18
REP 1554216	QC	32	0.60	105	0.080	1	2.01	0.009	0.05	0.3	0.03	3.4	<0.1	<0.05	11	0.6	<0.2	
1554378	Soil	24	0.88	133	0.092	<1	1.63	0.013	0.06	0.2	0.03	4.5	<0.1	<0.05	6	1.7	0.2	25
REP 1554378	QC	23	0.87	124	0.089	2	1.61	0.013	0.06	0.3	0.02	4.5	<0.1	<0.05	6	1.8	0.3	
1554379	Soil	34	0.69	139	0.107	1	2.26	0.014	0.08	0.3	0.02	3.9	<0.1	<0.05	10	<0.5	<0.2	9
REP 1554379	QC																	5
1554427	Soil	32	0.44	109	0.266	<1	1.60	0.013	0.06	0.4	0.02	2.5	<0.1	<0.05	14	<0.5	<0.2	9
REP 1554427	QC	33	0.44	108	0.269	<1	1.59	0.013	0.06	0.4	0.03	2.2	<0.1	<0.05	14	<0.5	<0.2	
1554431	Soil	32	0.27	131	0.252	<1	2.10	0.019	0.06	0.3	0.01	1.8	<0.1	<0.05	17	<0.5	<0.2	<2
REP 1554431	QC	32	0.27	131	0.254	<1	2.09	0.018	0.06	0.4	0.02	1.7	<0.1	<0.05	17	<0.5	<0.2	
1554351	Soil	34	0.54	191	0.075	6	1.66	0.011	0.11	0.4	0.02	3.1	<0.1	<0.05	13	0.6	<0.2	<2
REP 1554351	QC																	39
1554363	Soil	30	0.57	108	0.109	4	2.93	0.017	0.05	0.4	0.08	4.0	<0.1	0.06	15	2.2	<0.2	8
REP 1554363	QC	30	0.58	99	0.102	5	2.92	0.017	0.05	0.4	0.07	3.7	<0.1	0.05	14	2.1	<0.2	
1554372	Soil	31	0.52	139	0.138	2	1.66	0.012	0.06	0.5	0.03	3.2	<0.1	0.05	14	1.0	<0.2	<2
REP 1554372	QC	31	0.54	137	0.148	3	1.68	0.013	0.06	0.4	0.03	3.3	<0.1	0.06	13	<0.5	<0.2	
1554324	Soil	27	0.44	128	0.142	2	2.46	0.014	0.06	0.3	0.11	3.3	<0.1	<0.05	13	1.6	0.2	I.S.
REP 1554324	QC	27	0.42	134	0.134	1	2.45	0.015	0.06	0.3	0.10	3.2	<0.1	<0.05	13	2.0	0.3	
1554283	Silt	22	1.58	122	0.070	2	1.98	0.018	0.09	<0.1	0.31	9.6	<0.1	0.15	7	1.0	0.4	67
REP 1554283	QC	21	1.65	124	0.070	3	1.94	0.017	0.09	<0.1	0.31	9.5	<0.1	0.19	7	0.7	0.2	

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Project: North\_Rok  
 Report Date: October 23, 2012

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1554086	Silt	1.1	126.0	61.8	368	1.2	43.6	29.7	1637	6.16	83.0	827.4	1.5	46	2.9	5.0	0.4	114	0.65	0.167	14
REP 1554086	QC																				
Reference Materials																					
STD DS9	Standard	13.4	117.5	127.0	310	1.9	44.1	7.8	591	2.36	26.1	127.8	6.8	71	2.3	5.9	7.1	39	0.69	0.080	13
STD DS9	Standard	12.6	105.4	123.6	297	1.6	37.6	7.2	556	2.39	25.3	135.1	6.6	64	2.3	5.1	5.0	40	0.70	0.085	13
STD DS9	Standard	12.5	103.4	120.3	301	1.8	38.8	7.4	564	2.26	24.4	117.1	6.5	75	2.5	6.1	6.7	39	0.69	0.082	13
STD DS9	Standard	12.4	102.0	123.7	300	1.7	36.8	6.9	550	2.23	24.8	112.0	6.1	65	2.5	5.5	5.8	38	0.65	0.076	12
STD DS9	Standard	12.5	109.1	120.3	304	1.9	39.4	7.3	555	2.25	24.5	119.7	6.0	71	2.2	5.4	6.1	40	0.68	0.077	12
STD DS9	Standard	13.5	108.1	128.4	312	1.8	42.5	7.6	594	2.42	25.5	121.5	7.2	80	2.2	6.0	7.1	43	0.75	0.087	15
STD OXA71	Standard																				
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STD OXA71	Standard																				
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OXA71 Expected																					
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001	<1
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2
1554086	Silt	22	1.59	149	0.070	3	2.09	0.018	0.10	<0.1	0.35	10.2	<0.1	0.11	8	0.5	<0.2	149
REP 1554086	QC																	197
Reference Materials																		
STD DS9	Standard	117	0.63	306	0.113	2	0.88	0.078	0.39	3.1	0.22	2.6	5.6	0.11	5	5.6	5.6	
STD DS9	Standard	111	0.65	305	0.101	4	0.89	0.081	0.40	3.2	0.22	2.3	5.6	0.20	4	6.6	5.0	
STD DS9	Standard	113	0.60	305	0.105	2	0.90	0.093	0.39	2.8	0.20	2.9	5.3	0.11	5	5.7	5.4	
STD DS9	Standard	109	0.54	302	0.098	2	0.88	0.084	0.36	2.9	0.20	2.4	5.4	0.09	4	5.0	4.8	
STD DS9	Standard	117	0.61	285	0.106	3	0.87	0.077	0.37	2.9	0.21	2.1	5.4	0.09	4	4.6	4.6	
STD DS9	Standard	122	0.64	305	0.123	4	0.98	0.090	0.39	3.3	0.20	2.9	5.6	0.16	5	3.7	4.9	
STD OXA71	Standard																	79
STD OXA71	Standard																	77
STD OXA71	Standard																	71
STD OXA71	Standard																	72
STD OXA71	Standard																	74
STD OXA71	Standard																	71
STD OXA71	Standard																	74
STD OXA71	Standard																	69
STD OXA71	Standard																	73
STD OXA71	Standard																	85
STD OXA71	Standard																	89
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02	
STD OXA71 Expected																		84.9
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	<2

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**Project:** North\_Rok  
**Report Date:** October 23, 2012

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QUALITY CONTROL REPORT

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
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 West Kelowna BC V4T 2N6 Canada

**Project:** North\_Rok  
**Report Date:** October 23, 2012

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**Part:** 2 of 1

QUALITY CONTROL REPORT

WHI12000791.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B		
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2	
BLK	Blank																		<2
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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: Colorado Resources Ltd.

110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 Canada

Submitted By: Greg Dawson
Receiving Lab: Canada-Whitehorse
Received: October 03, 2012
Report Date: October 18, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI12000962.2

CLIENT JOB INFORMATION

Project: North\_Rok
Shipment ID:
P.O. Number
Number of Samples: 78

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Linda Dandy
Jessica Norris
Allan Jacobs
Adam Travis

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include: Dry at 60C, SS80, 1DX2, 3B01.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: North\_Rok

Report Date: October 18, 2012

Page: 2 of 4

Part: 1 of 1

# CERTIFICATE OF ANALYSIS

# WHI12000962.2

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo ppm 0.1	Cu ppm 0.1	Pb ppm 0.1	Zn ppm 1	Ag ppm 0.1	Ni ppm 0.1	Co ppm 0.1	Mn ppm 1	Fe % 0.01	As ppm 0.5	Au ppb 0.5	Th ppm 0.1	Sr ppm 1	Cd ppm 0.1	Sb ppm 0.1	Bi ppm 0.1	V ppm 2	Ca % 0.01	P % 0.001	La ppm 1
1507001	Soil	1.1	34.6	7.6	59	0.1	64.8	13.4	517	3.67	8.2	1.0	1.8	24	<0.1	0.5	0.1	73	0.31	0.058	9
1507002	Soil	1.2	36.7	8.6	60	<0.1	69.2	14.8	526	3.83	9.1	1.6	1.6	23	<0.1	0.4	0.1	75	0.31	0.058	7
1507003	Soil	1.1	28.1	6.8	63	<0.1	72.2	14.6	625	3.61	9.0	2.0	2.3	21	0.1	0.5	0.1	67	0.31	0.065	7
1507004	Soil	1.7	27.4	11.2	91	0.2	56.4	15.2	537	4.57	10.7	2.7	1.5	19	0.3	0.5	0.2	86	0.25	0.076	7
1507005	Soil	1.4	20.0	8.7	174	0.1	58.0	15.2	976	3.82	8.7	1.4	2.9	24	0.3	0.4	0.2	64	0.33	0.211	9
1507006	Soil	0.9	18.9	6.9	52	<0.1	47.8	10.3	368	2.92	8.0	2.9	1.3	19	<0.1	0.5	0.1	58	0.30	0.064	5
1507007	Soil	1.1	18.7	6.6	50	<0.1	47.7	9.6	287	2.96	7.9	2.2	0.9	17	0.2	0.4	0.1	65	0.24	0.050	5
1507008	Soil	2.0	15.5	11.9	116	0.2	30.1	14.1	863	5.02	8.8	2.9	1.5	17	0.8	0.5	0.3	84	0.24	0.075	7
1507009	Soil	1.6	24.2	13.6	120	0.2	41.0	16.1	852	4.85	8.0	1.2	1.6	18	0.6	0.5	0.3	85	0.27	0.081	8
1507010	Soil	2.0	26.1	12.7	91	0.3	38.8	15.9	660	5.25	14.7	2.1	1.2	18	0.6	0.7	0.2	100	0.26	0.088	6
1507011	Soil	3.7	68.8	13.5	83	0.2	33.1	19.7	483	5.41	21.1	4.9	0.9	36	0.4	0.6	0.5	121	0.36	0.091	4
1507012	Soil	3.3	41.8	11.7	83	0.2	31.5	17.2	493	4.65	14.8	6.3	1.2	23	0.8	0.7	0.5	83	0.21	0.053	7
1507013	Soil	3.8	37.0	17.1	120	0.3	42.3	19.5	457	5.86	16.0	34.8	2.7	19	0.3	0.5	0.4	71	0.20	0.085	13
1507014	Soil	4.6	75.8	15.4	86	0.3	35.1	17.3	377	6.16	21.3	39.4	3.0	15	0.3	0.6	0.6	71	0.13	0.121	11
1507015	Soil	3.5	51.0	14.2	76	0.2	29.3	11.9	275	4.72	15.6	30.4	1.1	26	0.4	0.6	0.4	96	0.22	0.076	7
1507016	Soil	8.3	138.0	21.3	109	0.4	24.0	15.5	490	6.70	30.2	46.2	1.3	32	0.6	0.7	0.6	133	0.26	0.123	5
1507017	Soil	7.9	264.0	16.5	70	0.4	29.7	15.3	342	7.38	53.4	132.1	1.0	37	0.3	0.9	0.6	145	0.24	0.082	4
1507018	Soil	2.4	33.0	14.8	104	0.2	17.3	11.1	323	4.46	13.0	10.5	1.3	21	0.9	0.4	0.4	77	0.19	0.095	10
1507019	Soil	5.1	105.2	15.8	85	0.2	18.9	9.4	268	6.48	29.2	27.4	1.1	30	0.6	0.8	0.5	141	0.14	0.098	5
1507020	Soil	6.9	146.2	16.0	80	0.2	23.1	10.8	283	5.74	24.1	61.7	1.6	23	0.4	0.7	0.5	103	0.16	0.091	8
1507021	Soil	9.2	178.1	16.3	83	0.5	26.7	10.6	265	7.00	32.2	30.1	1.6	32	0.5	0.9	0.4	110	0.30	0.111	8
1507022	Soil	3.4	47.7	10.7	94	0.2	44.9	13.2	453	3.88	17.0	16.1	0.9	30	0.4	0.6	0.2	96	0.47	0.076	6
1507023	Soil	4.3	78.2	12.9	89	0.2	37.4	12.4	451	3.67	11.8	10.7	1.2	49	0.6	0.4	0.3	85	0.62	0.057	11
1507024	Soil	4.3	77.5	16.7	133	0.6	56.7	25.7	527	6.69	23.1	20.1	1.7	35	0.4	0.6	0.4	127	0.27	0.090	7
1507025	Soil	1.7	100.3	12.4	70	<0.1	48.7	18.9	647	3.90	15.5	8.9	1.7	38	0.2	0.6	0.3	85	0.41	0.091	9
1507026	Soil	1.3	70.8	9.5	75	0.3	35.6	17.2	518	3.64	16.3	9.6	1.0	43	0.7	0.6	0.3	91	0.49	0.094	7
1507027	Soil	1.2	84.0	9.2	75	0.2	66.0	19.2	728	3.83	13.1	16.4	1.4	46	0.4	0.6	0.3	84	0.70	0.101	9
1507028	Soil	1.2	116.7	8.7	76	0.3	62.1	13.0	462	3.50	12.8	10.8	1.2	65	0.3	0.6	0.5	80	1.04	0.091	12
1507029	Soil	1.0	63.8	9.4	74	0.1	71.0	16.1	696	3.78	9.3	6.3	1.3	46	0.3	0.5	0.2	81	0.74	0.087	10
1507030	Soil	2.2	45.9	12.7	77	<0.1	49.4	17.2	612	3.99	12.1	5.2	1.2	36	0.4	0.6	0.2	87	0.43	0.096	7





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Project: North\_Rok  
 Report Date: October 18, 2012

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CERTIFICATE OF ANALYSIS

WHI12000962.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	Unit	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
MDL	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	
1507001	Soil	47	1.14	141	0.132	2	1.87	0.014	0.08	0.1	0.03	5.3	<0.1	<0.05	6	<0.5	<0.2	4
1507002	Soil	46	1.27	150	0.121	1	1.70	0.016	0.06	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2	<2
1507003	Soil	43	1.06	164	0.122	2	1.84	0.013	0.10	<0.1	0.03	5.2	<0.1	<0.05	6	<0.5	<0.2	<2
1507004	Soil	40	0.96	122	0.161	2	1.98	0.013	0.11	0.2	0.03	4.2	<0.1	<0.05	9	<0.5	<0.2	<2
1507005	Soil	43	0.84	265	0.097	2	2.19	0.012	0.12	0.2	0.03	4.6	<0.1	<0.05	9	<0.5	<0.2	<2
1507006	Soil	44	0.85	102	0.080	2	1.45	0.009	0.10	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2	<2
1507007	Soil	45	0.82	110	0.059	1	1.55	0.011	0.07	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2	<2
1507008	Soil	35	0.47	184	0.187	1	1.51	0.012	0.09	0.3	0.02	2.6	<0.1	<0.05	12	<0.5	<0.2	<2
1507009	Soil	38	0.66	225	0.124	1	1.82	0.011	0.09	0.2	0.02	3.4	<0.1	<0.05	12	<0.5	<0.2	<2
1507010	Soil	41	0.68	124	0.184	2	1.98	0.013	0.09	0.2	0.03	3.8	<0.1	<0.05	10	<0.5	<0.2	<2
1507011	Soil	35	0.79	105	0.191	3	1.98	0.012	0.07	0.3	0.03	4.1	<0.1	<0.05	10	0.7	<0.2	<2
1507012	Soil	32	0.52	100	0.145	4	1.62	0.010	0.10	0.4	0.03	3.1	<0.1	<0.05	12	<0.5	<0.2	22
1507013	Soil	35	0.52	114	0.170	3	2.51	0.020	0.08	0.6	0.04	2.7	<0.1	<0.05	18	0.6	<0.2	<2
1507014	Soil	32	0.56	93	0.163	3	2.35	0.016	0.07	0.7	0.03	2.8	<0.1	<0.05	17	0.8	<0.2	<2
1507015	Soil	33	0.51	95	0.144	3	1.65	0.011	0.08	0.3	0.02	3.1	<0.1	<0.05	12	<0.5	<0.2	<2
1507016	Soil	34	0.73	108	0.296	2	1.92	0.017	0.06	0.4	0.02	3.7	<0.1	<0.05	14	1.6	<0.2	8
1507017	Soil	37	0.89	151	0.206	3	2.62	0.014	0.06	0.6	0.05	4.8	<0.1	0.06	12	1.9	0.2	34
1507018	Soil	25	0.35	92	0.150	2	1.17	0.013	0.07	0.5	0.01	2.3	<0.1	<0.05	14	<0.5	<0.2	3
1507019	Soil	30	0.69	118	0.169	3	2.11	0.013	0.06	0.5	0.04	4.5	<0.1	0.05	14	1.1	<0.2	4
1507020	Soil	31	0.47	114	0.188	2	2.21	0.014	0.05	0.4	0.03	3.2	<0.1	<0.05	16	0.5	<0.2	7
1507021	Soil	34	0.53	122	0.150	3	3.68	0.016	0.06	0.6	0.07	3.8	<0.1	0.06	16	0.7	<0.2	43
1507022	Soil	44	0.93	127	0.109	4	1.87	0.015	0.09	0.1	0.03	5.5	<0.1	<0.05	8	<0.5	<0.2	<2
1507023	Soil	41	0.83	166	0.107	3	2.14	0.017	0.07	0.2	0.03	5.2	<0.1	<0.05	10	1.1	<0.2	<2
1507024	Soil	48	1.21	176	0.193	4	2.97	0.018	0.08	0.3	0.02	6.6	<0.1	<0.05	13	0.8	<0.2	<2
1507025	Soil	36	1.09	157	0.122	4	1.89	0.018	0.07	0.1	0.04	6.1	<0.1	<0.05	6	0.7	<0.2	<2
1507026	Soil	31	0.96	111	0.117	4	1.64	0.020	0.08	0.2	0.04	6.2	<0.1	<0.05	6	0.7	<0.2	5
1507027	Soil	50	1.26	157	0.132	5	1.81	0.023	0.10	0.2	0.06	7.4	<0.1	<0.05	6	0.8	<0.2	<2
1507028	Soil	49	1.12	188	0.119	5	1.91	0.020	0.11	0.2	0.08	8.2	<0.1	0.05	6	1.0	<0.2	I.S.
1507029	Soil	59	1.16	175	0.095	5	1.82	0.020	0.11	<0.1	0.08	8.6	<0.1	<0.05	6	0.7	<0.2	<2
1507030	Soil	43	1.08	148	0.112	3	1.84	0.015	0.12	0.1	0.03	5.4	<0.1	<0.05	7	<0.5	<0.2	<2

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



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Project: North\_Rok  
 Report Date: October 18, 2012

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CERTIFICATE OF ANALYSIS

WHI12000962.2

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1507031	Soil		2.1	45.5	15.3	68	0.1	47.3	14.1	466	4.02	13.9	6.1	1.5	34	0.1	0.5	0.2	89	0.41	0.058	7
1507032	Soil		2.7	28.1	14.1	153	0.3	35.0	13.9	386	4.76	10.9	4.0	2.6	29	0.4	0.5	0.4	79	0.35	0.055	13
1507033	Soil		2.1	42.4	9.1	68	0.2	38.3	14.9	581	3.90	9.2	1.8	1.1	60	0.4	0.4	0.2	108	0.76	0.033	6
1507034	Soil		1.3	49.5	10.5	59	0.1	30.0	14.2	580	3.40	9.9	2.8	1.2	46	0.2	0.5	0.3	90	0.59	0.050	8
1507035	Soil		1.5	35.2	12.6	84	0.2	39.7	15.8	814	4.38	7.0	3.1	1.5	49	0.6	0.4	0.2	93	0.61	0.035	8
1507036	Soil		1.7	89.0	14.4	183	0.5	62.5	20.9	1611	5.10	10.8	3.6	3.5	34	0.6	0.5	0.3	94	0.63	0.049	36
1507037	Soil		2.3	39.7	15.8	101	0.2	62.7	19.1	659	5.45	15.2	4.4	1.5	30	0.3	0.5	0.3	108	0.36	0.052	6
1507038	Soil		2.1	29.1	16.1	151	0.3	42.8	21.2	956	5.18	10.9	1.4	1.2	34	0.9	0.5	0.3	110	0.48	0.059	6
1507039	Soil		1.5	26.0	11.4	111	0.3	43.8	17.5	1251	4.10	7.3	0.8	0.9	52	0.7	0.3	0.2	96	0.78	0.071	6
1507040	Soil		2.2	22.6	14.0	98	0.2	40.6	16.9	1336	4.54	8.1	2.1	1.0	31	0.3	0.4	0.2	100	0.54	0.064	8
1507041	Soil		2.3	28.9	20.6	150	0.6	28.5	29.4	4220	4.97	5.8	0.9	1.3	47	1.6	0.4	0.3	97	0.60	0.090	11
1507042	Soil		2.0	21.2	19.9	186	0.2	38.3	24.0	2049	5.33	8.4	2.1	1.1	40	1.8	0.5	0.3	114	0.42	0.073	7
1507043	Soil		1.9	18.9	12.6	138	0.4	38.0	17.2	1261	4.44	8.2	2.0	2.0	29	0.6	0.4	0.3	97	0.36	0.124	10
1507044	Soil		1.4	28.2	14.6	116	0.5	25.3	19.5	1749	3.69	5.9	2.1	0.9	52	1.0	0.4	0.3	80	0.76	0.159	6
1507045	Soil		1.7	29.7	15.2	111	0.3	65.1	20.4	1326	5.34	11.8	1.5	2.6	28	0.5	0.4	0.2	90	0.39	0.186	11
1507046	Soil		2.4	31.3	16.3	114	0.2	35.6	18.2	1654	5.51	9.4	2.5	1.6	29	0.7	0.4	0.3	109	0.34	0.095	8
1507047	Soil		1.8	22.9	17.1	130	0.2	33.6	17.8	973	5.05	8.6	23.2	1.5	18	0.7	0.5	0.3	96	0.20	0.154	8
1507048	Soil		1.9	33.6	9.7	80	0.3	51.8	23.5	829	4.72	6.8	2.6	1.9	19	0.3	0.4	0.2	85	0.19	0.214	7
1507049	Soil		1.9	15.6	11.6	87	0.2	29.6	13.8	1444	4.14	8.1	13.1	1.2	18	0.5	0.5	0.3	77	0.18	0.104	8
1507050	Soil		2.0	18.8	11.4	90	0.2	40.1	14.6	987	4.66	11.2	6.9	1.8	21	0.3	0.6	0.3	71	0.22	0.071	10
1507051	Soil		2.6	12.1	12.9	140	0.2	28.1	12.8	381	5.08	7.6	<0.5	1.6	17	0.8	0.5	0.3	91	0.22	0.076	9
1507052	Soil		2.7	38.7	15.9	109	0.3	24.6	27.0	1088	5.41	15.0	3.3	2.0	14	1.0	0.4	0.4	76	0.15	0.070	10
1507053	Soil		3.6	18.7	14.1	106	0.3	27.6	16.2	488	5.58	15.8	1.8	1.9	18	0.6	0.5	0.4	74	0.20	0.157	13
1507054	Soil		4.1	36.8	12.1	156	0.2	33.4	15.8	322	4.72	11.7	5.7	1.4	17	0.7	0.6	0.3	86	0.13	0.061	7
1507055	Soil		2.5	60.3	11.6	145	0.3	41.8	18.1	380	4.40	16.2	47.2	1.2	28	0.7	0.5	0.3	81	0.21	0.095	6
1507056	Soil		2.0	26.0	11.1	79	0.2	26.6	14.1	472	3.81	10.2	70.9	1.1	20	0.4	0.5	0.3	79	0.14	0.068	6
1507057	Soil		2.5	38.0	15.3	133	0.2	23.7	18.8	632	4.86	15.7	17.9	1.5	23	0.7	0.5	0.4	90	0.23	0.228	8
1507058	Soil		2.9	70.2	12.4	86	<0.1	31.2	12.5	332	4.53	23.5	11.0	0.9	34	0.3	0.6	0.4	111	0.24	0.124	5
1507059	Soil		5.0	123.1	12.9	72	0.2	30.0	13.8	368	5.60	27.3	66.2	1.4	39	0.4	0.7	0.5	103	0.32	0.106	6
1507060	Soil		4.9	58.7	13.3	98	0.3	16.2	9.0	269	5.09	24.3	26.3	1.5	21	0.5	0.6	0.5	120	0.13	0.144	7

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# CERTIFICATE OF ANALYSIS

WHI12000962.2

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	2	
1507031	Soil	44	1.00	118	0.121	3	2.00	0.013	0.09	0.1	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2	<2
1507032	Soil	37	0.59	96	0.120	4	2.45	0.017	0.08	0.3	0.02	3.9	<0.1	<0.05	14	<0.5	<0.2	<2
1507033	Soil	41	0.90	184	0.137	8	1.84	0.014	0.30	0.1	0.03	5.6	<0.1	<0.05	7	<0.5	<0.2	<2
1507034	Soil	35	0.79	147	0.109	4	1.60	0.014	0.08	0.1	0.02	5.3	<0.1	<0.05	6	<0.5	<0.2	<2
1507035	Soil	41	0.81	209	0.175	4	1.93	0.017	0.07	0.1	0.03	4.4	<0.1	<0.05	10	<0.5	<0.2	<2
1507036	Soil	46	0.82	253	0.177	4	2.90	0.021	0.08	0.2	0.06	7.8	0.1	<0.05	13	0.8	<0.2	<2
1507037	Soil	53	0.95	228	0.201	3	2.43	0.012	0.10	0.1	0.02	4.8	<0.1	<0.05	11	<0.5	<0.2	2
1507038	Soil	49	0.78	240	0.183	4	2.23	0.013	0.12	0.2	0.03	4.3	<0.1	<0.05	11	0.5	<0.2	<2
1507039	Soil	46	0.89	238	0.138	5	2.25	0.010	0.12	0.1	0.04	4.5	0.1	<0.05	10	<0.5	<0.2	7
1507040	Soil	44	0.71	262	0.147	4	2.01	0.010	0.13	0.1	0.03	3.9	<0.1	<0.05	11	<0.5	<0.2	<2
1507041	Soil	39	0.61	867	0.139	4	2.03	0.012	0.16	<0.1	0.04	4.5	0.1	0.05	11	<0.5	<0.2	<2
1507042	Soil	46	0.74	531	0.144	3	2.09	0.009	0.12	0.1	0.03	4.2	<0.1	<0.05	10	<0.5	<0.2	<2
1507043	Soil	43	0.58	227	0.159	3	1.95	0.015	0.13	0.3	0.02	3.1	0.1	<0.05	13	<0.5	<0.2	<2
1507044	Soil	29	0.72	333	0.109	4	1.57	0.010	0.22	0.1	0.02	3.5	<0.1	<0.05	8	<0.5	<0.2	<2
1507045	Soil	47	1.04	250	0.208	3	2.31	0.015	0.10	0.3	0.03	4.4	<0.1	<0.05	12	<0.5	<0.2	<2
1507046	Soil	43	0.69	286	0.251	2	2.07	0.013	0.08	0.2	0.03	3.7	<0.1	<0.05	14	<0.5	<0.2	<2
1507047	Soil	40	0.62	187	0.190	2	1.72	0.011	0.10	0.2	0.02	3.1	<0.1	<0.05	12	<0.5	<0.2	7
1507048	Soil	42	0.79	189	0.238	2	2.06	0.017	0.08	0.3	0.02	3.5	<0.1	<0.05	11	<0.5	<0.2	3
1507049	Soil	36	0.54	266	0.091	2	1.57	0.011	0.06	0.3	0.02	3.2	<0.1	<0.05	10	<0.5	<0.2	<2
1507050	Soil	38	0.60	199	0.118	2	1.86	0.012	0.10	0.3	0.03	3.1	<0.1	<0.05	11	<0.5	<0.2	<2
1507051	Soil	37	0.38	97	0.249	1	1.58	0.014	0.15	0.4	0.02	2.0	<0.1	<0.05	14	<0.5	<0.2	3
1507052	Soil	30	0.34	107	0.220	1	1.78	0.017	0.09	0.5	0.03	2.5	<0.1	<0.05	15	<0.5	<0.2	<2
1507053	Soil	30	0.33	102	0.144	1	1.62	0.015	0.08	0.7	0.02	2.1	<0.1	<0.05	19	<0.5	<0.2	<2
1507054	Soil	38	0.53	151	0.139	2	1.97	0.015	0.06	0.3	0.02	3.2	<0.1	<0.05	12	<0.5	<0.2	13
1507055	Soil	37	0.67	138	0.104	3	2.16	0.017	0.07	0.2	0.03	3.8	<0.1	<0.05	9	0.7	<0.2	<2
1507056	Soil	34	0.53	133	0.106	1	1.59	0.012	0.07	0.3	0.02	2.9	<0.1	<0.05	9	<0.5	<0.2	<2
1507057	Soil	33	0.48	145	0.124	1	1.51	0.012	0.07	0.5	0.02	3.5	<0.1	<0.05	12	0.6	<0.2	29
1507058	Soil	32	0.82	141	0.133	2	1.73	0.020	0.06	0.4	0.03	4.3	<0.1	0.11	10	1.0	<0.2	12
1507059	Soil	28	0.87	71	0.163	2	1.93	0.018	0.06	0.5	0.04	4.2	<0.1	<0.05	10	2.0	<0.2	76
1507060	Soil	24	0.49	108	0.118	1	2.11	0.015	0.05	0.5	0.04	3.8	<0.1	<0.05	13	1.2	<0.2	29

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1507061	Soil	4.8	59.2	14.7	93	0.1	17.7	8.1	354	4.63	22.8	10.9	1.3	26	1.2	0.8	0.5	131	0.19	0.113	8
1507062	Soil	9.8	290.2	14.8	61	0.2	21.3	13.7	368	4.17	28.9	43.2	0.8	43	0.7	0.5	0.4	98	0.44	0.110	8
1507063	Soil	5.5	260.6	13.9	83	0.4	52.8	16.2	495	3.55	16.6	19.6	1.4	55	0.3	0.7	0.3	87	0.98	0.087	10
1507064	Soil	2.7	69.1	9.6	77	0.1	46.7	19.6	3164	4.08	11.7	9.6	1.3	34	1.0	0.5	0.2	87	0.34	0.071	8
1507065	Soil	1.3	87.0	8.8	68	0.1	58.2	17.6	637	3.53	12.6	9.9	1.2	40	0.3	0.6	0.3	77	0.75	0.095	8
1507066	Soil	2.2	89.8	19.9	106	0.2	33.3	19.9	1052	4.12	12.5	4.9	1.1	37	0.5	0.9	1.1	94	0.69	0.137	11
1507067	Soil	0.9	51.7	7.2	58	0.2	63.6	15.0	486	3.01	8.1	4.3	1.0	66	0.4	0.5	0.2	66	1.24	0.072	7
1507068	Soil	1.6	31.5	9.4	56	0.1	48.1	13.2	349	3.95	8.9	1.9	0.9	20	0.2	0.4	0.3	93	0.26	0.036	4
1507069	Soil	1.3	47.0	10.5	85	0.3	44.1	17.4	552	3.42	9.5	3.4	1.0	31	0.8	0.4	0.2	81	0.31	0.095	5
1507070	Soil	1.5	55.6	12.8	64	<0.1	51.5	14.8	523	3.70	12.0	7.2	1.4	30	0.1	0.6	0.2	90	0.34	0.051	7
1507071	Soil	2.1	20.5	14.9	172	0.4	33.6	15.8	588	4.93	8.9	8.7	3.4	21	0.3	0.4	0.4	56	0.33	0.056	18
1507072	Soil	1.4	70.6	14.4	153	0.3	52.0	18.3	1174	4.93	13.8	1.8	2.9	35	0.7	0.6	0.3	95	0.60	0.033	19
1507073	Soil	3.1	40.8	18.4	133	0.3	38.9	15.6	445	5.23	14.6	5.5	1.2	22	0.7	0.5	0.3	115	0.28	0.041	7
1507074	Soil	1.6	33.6	12.9	142	0.2	53.8	16.6	807	4.74	13.3	4.0	2.2	25	0.3	0.4	0.2	97	0.44	0.064	10
1507075	Soil	2.2	26.4	15.1	154	0.2	35.5	21.1	1460	5.03	9.1	<0.5	1.0	24	1.0	0.4	0.3	104	0.35	0.055	5
1507076	Soil	2.2	42.9	14.9	103	0.3	37.0	18.9	1315	4.76	10.7	4.6	1.1	42	0.4	0.4	0.3	109	0.60	0.054	6
1507077	Soil	1.5	29.3	15.9	171	0.3	34.7	23.7	3306	4.97	7.7	1.5	1.1	33	1.1	0.4	0.2	99	0.51	0.079	7
1507078	Soil	1.4	26.3	12.4	104	0.3	38.9	18.0	1839	4.52	6.9	1.6	1.3	50	0.6	0.4	0.2	91	0.81	0.264	7



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	2
1507061	Soil	24	0.47	130	0.154	1	1.54	0.019	0.07	0.5	0.03	3.4	<0.1	<0.05	16	0.7	<0.2	6
1507062	Soil	23	0.63	151	0.105	1	1.54	0.016	0.05	0.4	0.04	4.1	<0.1	<0.05	8	2.6	<0.2	24
1507063	Soil	45	0.94	171	0.117	3	1.91	0.021	0.09	0.2	0.14	8.3	<0.1	<0.05	7	1.5	<0.2	3
1507064	Soil	38	0.90	169	0.159	2	1.91	0.016	0.07	0.1	0.03	5.2	<0.1	0.08	7	0.8	<0.2	8
1507065	Soil	43	1.13	130	0.126	3	1.44	0.023	0.14	0.2	0.05	6.4	<0.1	<0.05	5	0.7	<0.2	5
1507066	Soil	27	1.52	244	0.096	4	1.62	0.019	0.12	0.1	0.04	6.2	<0.1	<0.05	5	<0.5	<0.2	I.S.
1507067	Soil	48	1.09	168	0.105	9	1.40	0.019	0.08	<0.1	0.08	6.6	<0.1	<0.05	4	<0.5	<0.2	<2
1507068	Soil	46	0.84	89	0.134	2	1.89	0.010	0.13	0.2	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2	<2
1507069	Soil	46	0.86	126	0.111	3	1.53	0.015	0.12	0.1	0.03	5.6	<0.1	<0.05	6	<0.5	<0.2	<2
1507070	Soil	49	1.00	109	0.122	3	1.73	0.025	0.07	0.2	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2	2
1507071	Soil	30	0.37	207	0.155	2	2.38	0.023	0.10	0.5	0.03	2.7	0.1	<0.05	19	<0.5	<0.2	2
1507072	Soil	44	0.72	297	0.158	3	2.65	0.021	0.08	0.2	0.05	6.1	0.1	<0.05	11	<0.5	<0.2	3
1507073	Soil	46	0.72	128	0.198	3	2.00	0.012	0.08	0.2	0.03	3.7	<0.1	<0.05	12	<0.5	<0.2	12
1507074	Soil	43	0.91	204	0.170	2	2.63	0.017	0.08	0.2	0.04	4.7	<0.1	<0.05	11	<0.5	<0.2	4
1507075	Soil	43	0.69	287	0.181	3	1.95	0.012	0.11	0.2	0.02	3.8	<0.1	<0.05	11	<0.5	<0.2	22
1507076	Soil	45	0.75	265	0.204	4	2.08	0.011	0.13	0.1	0.03	4.3	<0.1	<0.05	11	<0.5	<0.2	<2
1507077	Soil	40	0.65	553	0.134	4	2.28	0.011	0.12	<0.1	0.03	4.1	<0.1	0.08	11	<0.5	<0.2	<2
1507078	Soil	42	0.86	497	0.143	4	2.18	0.012	0.15	<0.1	0.02	4.4	<0.1	<0.05	10	<0.5	<0.2	<2



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Project: North\_Rok  
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QUALITY CONTROL REPORT

WHI12000962.2

Method	Analyte	Unit	MDL	1DX15 Mo	1DX15 Cu	1DX15 Pb	1DX15 Zn	1DX15 Ag	1DX15 Ni	1DX15 Co	1DX15 Mn	1DX15 Fe	1DX15 As	1DX15 Au	1DX15 Th	1DX15 Sr	1DX15 Cd	1DX15 Sb	1DX15 Bi	1DX15 V	1DX15 Ca	1DX15 P	1DX15 La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
				0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																							
1507002	Soil			1.2	36.7	8.6	60	<0.1	69.2	14.8	526	3.83	9.1	1.6	1.6	23	<0.1	0.4	0.1	75	0.31	0.058	7
REP 1507002	QC			1.1	36.2	8.3	61	<0.1	67.7	14.3	518	3.76	8.7	12.4	1.8	23	<0.1	0.5	0.1	75	0.32	0.059	7
1507023	Soil			4.3	78.2	12.9	89	0.2	37.4	12.4	451	3.67	11.8	10.7	1.2	49	0.6	0.4	0.3	85	0.62	0.057	11
REP 1507023	QC																						
1507032	Soil			2.7	28.1	14.1	153	0.3	35.0	13.9	386	4.76	10.9	4.0	2.6	29	0.4	0.5	0.4	79	0.35	0.055	13
REP 1507032	QC			2.7	28.7	14.5	152	0.3	35.6	13.8	401	4.90	11.2	3.2	2.7	29	0.5	0.5	0.3	79	0.36	0.055	13
1507038	Soil			2.1	29.1	16.1	151	0.3	42.8	21.2	956	5.18	10.9	1.4	1.2	34	0.9	0.5	0.3	110	0.48	0.059	6
REP 1507038	QC			2.2	29.1	16.3	155	0.3	44.4	21.8	987	5.37	11.0	5.9	1.2	35	0.7	0.5	0.3	111	0.47	0.058	6
1507058	Soil			2.9	70.2	12.4	86	<0.1	31.2	12.5	332	4.53	23.5	11.0	0.9	34	0.3	0.6	0.4	111	0.24	0.124	5
REP 1507058	QC																						
1507068	Soil			1.6	31.5	9.4	56	0.1	48.1	13.2	349	3.95	8.9	1.9	0.9	20	0.2	0.4	0.3	93	0.26	0.036	4
REP 1507068	QC			1.4	31.8	9.7	54	0.1	48.4	13.4	351	3.94	9.0	2.9	0.8	21	0.3	0.5	0.2	91	0.24	0.036	4
1507071	Soil			2.1	20.5	14.9	172	0.4	33.6	15.8	588	4.93	8.9	8.7	3.4	21	0.3	0.4	0.4	56	0.33	0.056	18
REP 1507071	QC																						
1507074	Soil			1.6	33.6	12.9	142	0.2	53.8	16.6	807	4.74	13.3	4.0	2.2	25	0.3	0.4	0.2	97	0.44	0.064	10
REP 1507074	QC			2.0	35.9	13.0	147	0.3	56.1	16.5	859	4.77	14.0	1.6	2.0	26	0.4	0.4	0.3	100	0.46	0.065	10
Reference Materials																							
STD DS9	Standard			13.8	110.7	124.9	310	1.9	42.5	8.1	603	2.39	24.1	122.4	6.2	71	2.3	5.2	6.1	46	0.74	0.084	14
STD DS9	Standard			15.4	119.7	130.6	322	1.9	43.8	8.3	620	2.48	26.1	119.7	7.1	73	2.4	5.4	6.4	47	0.78	0.081	15
STD DS9	Standard			14.1	115.8	126.0	314	1.9	43.6	8.2	605	2.48	26.6	137.8	6.2	64	2.5	5.2	6.0	43	0.76	0.081	14
STD OXA71	Standard																						
STD OXA71	Standard																						
STD OXA71	Standard																						
STD OXA71	Standard																						
STD OXA71	Standard																						
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
STD OXA71 Expected																							
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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 West Kelowna BC V4T 2N6 Canada

Project: North\_Rok  
 Report Date: October 18, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

WHI12000962.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2	
Pulp Duplicates																		
1507002	Soil	46	1.27	150	0.121	1	1.70	0.016	0.06	<0.1	0.03	5.1	<0.1	<0.05	6	<0.5	<0.2	<2
REP 1507002	QC	46	1.25	155	0.123	2	1.74	0.013	0.06	<0.1	0.03	5.0	<0.1	<0.05	6	<0.5	<0.2	
1507023	Soil	41	0.83	166	0.107	3	2.14	0.017	0.07	0.2	0.03	5.2	<0.1	<0.05	10	1.1	<0.2	<2
REP 1507023	QC																	<2
1507032	Soil	37	0.59	96	0.120	4	2.45	0.017	0.08	0.3	0.02	3.9	<0.1	<0.05	14	<0.5	<0.2	<2
REP 1507032	QC	38	0.60	100	0.122	4	2.51	0.018	0.08	0.3	0.02	3.8	<0.1	<0.05	14	<0.5	<0.2	
1507038	Soil	49	0.78	240	0.183	4	2.23	0.013	0.12	0.2	0.03	4.3	<0.1	<0.05	11	0.5	<0.2	<2
REP 1507038	QC	49	0.78	240	0.186	4	2.29	0.012	0.12	0.2	0.03	4.3	<0.1	<0.05	11	<0.5	<0.2	
1507058	Soil	32	0.82	141	0.133	2	1.73	0.020	0.06	0.4	0.03	4.3	<0.1	0.11	10	1.0	<0.2	12
REP 1507058	QC																	10
1507068	Soil	46	0.84	89	0.134	2	1.89	0.010	0.13	0.2	0.02	4.2	<0.1	<0.05	7	<0.5	<0.2	<2
REP 1507068	QC	49	0.81	91	0.135	3	1.94	0.011	0.13	0.1	0.02	4.3	<0.1	<0.05	7	<0.5	<0.2	
1507071	Soil	30	0.37	207	0.155	2	2.38	0.023	0.10	0.5	0.03	2.7	0.1	<0.05	19	<0.5	<0.2	2
REP 1507071	QC																	<2
1507074	Soil	43	0.91	204	0.170	2	2.63	0.017	0.08	0.2	0.04	4.7	<0.1	<0.05	11	<0.5	<0.2	4
REP 1507074	QC	43	0.88	206	0.169	3	2.71	0.017	0.08	0.2	0.03	4.7	<0.1	<0.05	12	<0.5	<0.2	
Reference Materials																		
STD DS9	Standard	133	0.63	301	0.118	3	0.95	0.099	0.38	2.9	0.20	3.3	5.5	0.08	5	5.2	4.7	
STD DS9	Standard	133	0.67	315	0.122	3	1.00	0.095	0.42	3.0	0.22	2.7	5.7	0.20	5	5.8	5.1	
STD DS9	Standard	124	0.65	304	0.107	3	0.96	0.085	0.40	3.0	0.23	2.6	5.8	0.16	5	5.9	5.5	
STD OXA71	Standard																	80
STD OXA71	Standard																	78
STD OXA71	Standard																	74
STD OXA71	Standard																	76
STD OXA71	Standard																	80
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02	
STD OXA71 Expected																		84.9
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	

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**Project:** North\_Rok  
**Report Date:** October 18, 2012

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Part: 1 of 1

QUALITY CONTROL REPORT

WHI12000962.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank																				
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Part: 2 of 1

QUALITY CONTROL REPORT

WHI12000962.2

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	3B	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																	<2
BLK	Blank																	<2
BLK	Blank																	<2
BLK	Blank																	<2
BLK	Blank																	<2



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Submitted By: Linda Dandy
Receiving Lab: Canada-Smithers
Received: October 15, 2012
Report Date: October 31, 2012
Page: 1 of 8

CERTIFICATE OF ANALYSIS

SMI12000477.1

CLIENT JOB INFORMATION

Project: North\_Rok
Shipment ID:
P.O. Number
Number of Samples: 199

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, 3B, 1DX, RJSV and their corresponding test results and lab identifiers.

ADDITIONAL COMMENTS

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

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Greg Dawson
Jessica Norris



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Project: North\_Rok  
Report Date: October 31, 2012

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Part: 1 of 1

## CERTIFICATE OF ANALYSIS

## SMI12000477.1

	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1507079	Soil	8	2.7	187.7	11.0	86	1.0	37.8	11.1	1437	4.02	8.6	*	1.0	73	0.7	0.5	0.4	47	1.52	0.107	
1507080	Soil	<2	1.6	57.6	7.2	52	0.4	24.8	10.2	777	2.78	5.2	2.9	0.3	118	0.6	0.3	0.5	43	3.01	0.070	
1507081	Soil	14	2.0	35.2	11.4	86	0.2	52.6	15.9	466	4.64	10.3	3.8	1.6	36	0.3	0.3	0.2	70	0.54	0.060	
1507082	Soil	5	2.4	25.5	12.8	136	<0.1	36.6	12.1	435	4.14	9.1	0.9	1.1	36	0.2	0.3	0.2	84	0.53	0.051	
1507083	Soil	5	1.5	68.9	11.2	78	0.1	42.4	12.5	473	3.65	9.5	2.3	1.1	46	0.3	0.5	0.2	68	0.82	0.099	
1507084	Soil	<2	1.8	61.6	10.0	67	0.2	42.4	12.6	542	3.54	9.0	15.6	0.8	69	0.3	0.4	0.2	61	1.48	0.093	
1507085	Soil	6	1.4	64.6	9.2	70	0.2	51.3	15.1	871	3.76	11.3	2.3	0.8	50	0.4	0.4	0.2	72	0.92	0.098	
1507086	Soil	<2	1.3	70.1	10.2	77	0.1	51.7	17.0	650	3.97	15.2	4.6	1.4	42	0.2	0.5	0.3	82	0.61	0.114	
1507087	Soil	6	1.4	66.7	11.1	70	0.2	37.3	13.9	578	4.00	18.4	4.0	1.0	50	0.2	0.5	0.3	84	0.85	0.103	
1507088	Soil	6	2.6	92.1	15.0	105	0.2	41.9	15.9	617	4.87	12.5	4.7	1.3	24	0.2	0.3	0.3	91	0.27	0.095	
1507089	Soil	9	3.3	55.9	15.4	94	0.5	32.3	9.5	262	3.77	8.7	4.3	0.6	21	0.5	0.3	0.4	68	0.16	0.053	
1507090	Soil	6	3.6	132.2	15.1	116	0.3	51.3	20.6	629	5.71	18.4	2.1	1.4	45	0.3	0.5	0.4	95	0.39	0.060	
1507091	Soil	<2	2.9	59.8	15.6	85	0.2	28.8	11.3	365	4.90	18.3	3.1	0.4	35	0.8	0.4	0.4	102	0.24	0.092	
1507092	Soil	<2	3.9	34.3	14.5	119	0.2	44.8	14.5	518	7.33	12.8	<0.5	1.7	12	0.6	0.4	0.2	98	0.14	0.098	
1507093	Soil	4	3.2	51.0	17.7	102	0.2	35.5	13.5	418	6.10	21.7	3.5	1.2	19	0.5	0.6	0.3	108	0.16	0.087	
1507094	Soil	7	5.3	64.7	20.2	97	0.4	35.9	13.8	389	7.09	20.8	3.1	1.8	18	0.6	0.5	0.3	94	0.12	0.078	
1507095	Soil	3	3.7	57.5	15.6	92	0.2	42.9	14.1	338	6.88	16.4	12.4	1.9	22	0.6	0.5	0.4	77	0.18	0.082	
1507096	Soil	<2	5.4	31.4	13.0	75	1.6	37.8	8.3	280	4.47	12.9	*	5.0	20	0.1	0.3	0.3	37	0.32	0.050	
1507097	Soil	11	3.3	17.4	12.9	101	0.4	23.0	8.8	283	4.56	4.2	<0.5	1.3	11	1.1	0.3	0.2	67	0.09	0.030	
1507098	Soil	<2	2.0	15.6	9.9	94	0.3	27.8	18.5	891	4.23	7.9	1.1	0.9	18	0.6	0.4	0.2	73	0.20	0.054	
1507099	Soil	<2	1.2	10.9	9.3	51	0.4	31.4	8.7	424	3.14	4.6	5.9	0.8	10	<0.1	0.2	0.1	52	0.11	0.036	
1507100	Soil	<2	1.0	14.3	8.9	70	0.3	34.0	11.1	518	3.82	4.6	19.4	1.0	14	0.4	0.3	0.1	58	0.16	0.058	
1507101	Soil	<2	1.1	12.4	8.5	72	0.3	41.0	10.0	291	3.86	6.4	1.0	1.2	16	0.4	0.3	0.2	55	0.15	0.043	
1507102	Soil	<2	1.2	20.9	7.9	71	0.1	45.3	9.3	358	3.40	6.8	0.7	1.2	17	0.1	0.3	0.1	53	0.19	0.053	
1507103	Soil	19	1.6	20.7	7.3	57	0.2	56.6	12.1	311	3.86	7.5	4.8	0.6	25	0.1	0.4	0.1	62	0.29	0.057	
1507104	Soil	<2	1.3	11.9	10.2	102	0.3	26.6	17.9	1413	3.77	3.6	2.2	1.1	14	0.7	0.2	0.1	50	0.13	0.127	
1507105	Soil	<2	1.1	12.7	10.8	155	0.2	39.7	17.0	885	4.62	5.1	<0.5	2.0	20	0.7	0.2	0.2	53	0.19	0.182	
1507106	Soil	<2	1.2	7.8	11.8	90	0.2	15.9	17.6	2021	3.60	2.4	<0.5	0.7	24	1.0	0.3	0.2	47	0.27	0.105	
1507107	Soil	<2	1.6	8.8	12.5	97	0.3	19.6	17.7	1723	4.00	2.5	<0.5	1.1	15	0.7	0.3	0.2	54	0.17	0.118	
1507108	Soil	<2	1.8	19.4	7.3	58	0.2	52.7	15.3	950	4.03	8.0	<0.5	0.9	21	0.3	0.5	<0.1	65	0.37	0.053	



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**Project:** North\_Rok  
**Report Date:** October 31, 2012

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**Part:** 2 of 1

# CERTIFICATE OF ANALYSIS

SMI12000477.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1507079	Soil	59	31	0.43	496	0.062	<20	2.53	0.018	0.05	0.2	0.42	5.9	0.2	<0.05	12	1.6	<0.2
1507080	Soil	11	21	0.53	220	0.084	<20	1.28	0.013	0.03	0.1	0.11	2.4	<0.1	0.08	6	1.6	<0.2
1507081	Soil	8	36	0.96	180	0.133	<20	2.08	0.014	0.06	0.1	0.04	5.1	<0.1	<0.05	8	1.2	<0.2
1507082	Soil	7	36	0.80	137	0.196	<20	1.68	0.015	0.06	0.1	0.04	4.2	<0.1	<0.05	10	<0.5	<0.2
1507083	Soil	10	31	1.00	151	0.099	<20	1.48	0.016	0.08	<0.1	0.07	5.8	<0.1	<0.05	6	1.0	<0.2
1507084	Soil	8	33	0.89	162	0.089	<20	1.47	0.017	0.06	<0.1	0.08	5.3	<0.1	<0.05	5	1.6	<0.2
1507085	Soil	8	36	1.16	163	0.085	<20	1.55	0.019	0.09	0.1	0.07	5.7	<0.1	<0.05	6	0.5	<0.2
1507086	Soil	8	40	1.30	150	0.112	<20	1.73	0.023	0.13	0.2	0.06	7.4	<0.1	<0.05	6	<0.5	<0.2
1507087	Soil	8	31	1.15	160	0.115	<20	1.53	0.019	0.09	0.1	0.06	6.3	<0.1	<0.05	6	2.0	<0.2
1507088	Soil	12	40	1.17	210	0.118	<20	2.75	0.014	0.09	0.2	0.08	7.5	0.1	<0.05	10	1.0	<0.2
1507089	Soil	10	29	0.65	161	0.103	<20	2.13	0.011	0.08	0.2	0.06	4.2	<0.1	<0.05	13	<0.5	<0.2
1507090	Soil	13	37	1.31	267	0.103	<20	3.24	0.013	0.11	0.1	0.05	6.9	<0.1	<0.05	11	1.1	<0.2
1507091	Soil	8	29	0.91	167	0.150	<20	2.14	0.014	0.06	0.2	0.03	4.5	<0.1	<0.05	12	<0.5	<0.2
1507092	Soil	8	40	0.98	128	0.251	<20	2.15	0.014	0.05	0.2	0.03	3.9	<0.1	<0.05	17	<0.5	<0.2
1507093	Soil	6	34	0.91	111	0.156	<20	2.76	0.009	0.04	0.3	0.06	5.0	<0.1	<0.05	11	0.9	<0.2
1507094	Soil	6	36	0.82	117	0.178	<20	2.72	0.008	0.05	0.2	0.05	4.4	<0.1	<0.05	13	<0.5	<0.2
1507095	Soil	6	38	0.82	118	0.191	<20	2.93	0.009	0.03	0.3	0.05	4.4	<0.1	<0.05	11	1.1	<0.2
1507096	Soil	27	24	0.39	351	0.081	<20	2.81	0.019	0.08	0.4	0.06	4.1	0.1	<0.05	16	1.7	<0.2
1507097	Soil	6	27	0.23	152	0.233	<20	1.17	0.011	0.06	0.1	0.02	2.1	<0.1	<0.05	13	0.6	<0.2
1507098	Soil	5	34	0.54	137	0.110	<20	1.40	0.007	0.07	0.1	0.02	2.9	<0.1	<0.05	8	<0.5	<0.2
1507099	Soil	7	36	0.51	120	0.081	<20	1.42	0.009	0.05	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
1507100	Soil	7	36	0.52	152	0.135	<20	1.51	0.009	0.06	0.1	0.01	2.9	<0.1	<0.05	8	<0.5	<0.2
1507101	Soil	6	38	0.61	111	0.110	<20	1.57	0.009	0.06	<0.1	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
1507102	Soil	7	38	0.82	108	0.104	<20	1.42	0.011	0.08	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
1507103	Soil	5	47	0.88	156	0.082	<20	1.70	0.007	0.08	<0.1	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
1507104	Soil	7	29	0.38	192	0.089	<20	1.32	0.008	0.07	0.1	0.02	2.4	<0.1	<0.05	9	<0.5	<0.2
1507105	Soil	9	33	0.40	278	0.134	<20	1.64	0.012	0.08	0.2	0.02	2.7	<0.1	<0.05	11	<0.5	<0.2
1507106	Soil	7	20	0.27	259	0.106	<20	0.85	0.006	0.11	0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
1507107	Soil	7	26	0.27	155	0.171	<20	1.04	0.011	0.07	0.2	0.01	1.9	<0.1	<0.05	10	<0.5	<0.2
1507108	Soil	4	49	0.76	205	0.097	<20	1.48	0.008	0.12	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2



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Project: North\_Rok

Report Date: October 31, 2012

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## CERTIFICATE OF ANALYSIS

## SMI12000477.1

	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1507109	Soil	<2	0.8	20.3	7.3	59	<0.1	50.7	11.8	518	3.58	8.7	4.3	1.4	19	0.2	0.6	<0.1	62	0.22	0.036	
1507110	Soil	<2	1.5	11.6	11.9	149	0.2	29.6	13.0	1119	4.98	8.8	<0.5	1.3	13	0.4	0.5	0.2	67	0.13	0.134	
1507111	Soil	<2	1.7	8.9	12.3	63	0.3	19.1	12.6	879	4.19	6.0	<0.5	1.2	20	0.6	0.3	0.3	54	0.22	0.091	
1507112	Soil	<2	1.5	9.2	12.4	130	0.4	26.0	15.6	1675	4.97	4.8	3.4	1.7	9	0.5	0.3	0.2	60	0.07	0.082	
1507113	Soil	<2	1.8	21.3	14.4	72	0.4	31.0	14.5	705	5.85	15.5	<0.5	1.0	17	0.5	0.9	0.3	74	0.19	0.063	
1507114	Soil	<2	8.5	121.1	11.7	69	0.3	37.8	17.0	664	4.85	9.2	<0.5	2.4	30	0.3	0.4	0.2	64	0.29	0.066	
1507115	Soil	<2	2.2	60.1	12.5	86	0.3	31.1	10.8	350	3.99	15.8	7.0	0.6	31	0.3	0.4	0.3	82	0.22	0.047	
1507116	Soil	2	1.2	60.0	10.5	63	<0.1	30.1	13.6	515	3.54	18.6	11.0	1.3	34	0.3	0.5	0.4	80	0.42	0.113	
1507117	Soil	<2	1.3	126.3	9.6	78	0.1	47.9	15.1	908	3.71	12.5	8.9	0.5	93	0.4	0.5	0.5	58	1.23	0.088	
1507119	Soil	66	2.1	103.4	6.7	41	0.3	35.7	9.7	1375	1.88	4.2	4.5	0.3	220	0.4	0.4	0.2	39	2.95	0.095	
1507120	Soil	<2	1.2	49.6	14.2	86	0.3	51.1	15.6	749	4.54	10.1	2.8	2.0	46	0.3	0.4	0.2	71	0.67	0.087	
1507121	Soil	3	2.0	97.8	11.6	86	0.3	49.9	16.1	1069	4.13	9.1	3.7	1.1	44	0.9	0.4	0.2	70	0.66	0.053	
1507122	Soil	<2	2.8	26.7	16.1	136	0.4	32.9	13.6	1119	5.37	15.4	<0.5	3.7	15	0.5	0.4	0.4	52	0.16	0.062	
1507123	Soil	<2	2.1	32.7	13.0	114	0.2	56.2	16.4	443	5.53	12.3	11.9	1.1	27	0.4	0.4	0.2	83	0.33	0.090	
1507124	Soil	<2	2.0	31.0	13.7	104	0.2	53.9	18.8	696	5.66	12.5	5.6	1.2	31	0.4	0.4	0.3	91	0.37	0.069	
1507125	Soil	<2	1.9	85.9	16.4	133	0.6	38.5	22.5	2812	5.16	7.8	3.5	1.2	43	1.7	0.3	0.3	71	0.78	0.052	
1507126	Soil	8	1.6	33.5	15.7	102	0.2	52.9	17.7	654	5.21	10.9	3.4	1.1	30	0.7	0.4	0.2	96	0.41	0.048	
1507128	Soil	<2	2.5	24.8	17.4	142	0.3	40.3	16.7	823	5.78	12.3	<0.5	1.1	33	0.9	0.5	0.3	87	0.44	0.075	
1507129	Soil	<2	3.2	21.3	16.0	104	0.2	33.7	10.8	352	4.83	9.0	1.1	0.6	25	1.0	0.3	0.2	101	0.27	0.045	
1507130	Soil	<2	9.1	41.6	4.3	45	0.2	41.0	7.2	550	1.78	7.0	3.0	0.3	73	0.5	0.5	0.1	33	2.39	0.084	
1507131	Soil	<2	13.4	72.4	6.5	45	0.2	41.4	10.1	1065	2.51	28.8	4.2	0.3	62	0.5	0.4	0.1	53	1.96	0.089	
1507132	Soil	<2	14.6	75.5	6.8	50	0.2	47.8	12.3	1356	2.77	42.0	2.4	0.3	57	0.9	0.5	0.2	62	2.02	0.104	
1507133	Soil	<2	9.3	30.7	7.2	53	0.1	37.1	10.9	662	2.77	25.4	2.2	0.7	33	0.2	0.3	0.1	61	0.84	0.056	
1507134	Soil	<2	5.4	29.6	2.1	33	0.2	20.2	2.2	30	0.61	0.7	0.6	0.1	67	0.9	0.2	<0.1	10	2.09	0.047	
1507135	Soil	<2	8.4	77.5	9.9	36	0.4	29.7	7.9	427	1.56	4.1	5.7	0.5	77	0.4	0.4	0.2	39	2.43	0.073	
1507136	Soil	<2	7.8	542.0	7.7	36	1.3	82.2	9.8	737	2.85	9.6	6.7	0.6	55	0.5	0.5	0.2	46	1.93	0.060	
1507137	Soil	20	1.9	34.7	16.0	97	0.1	10.1	8.7	353	3.09	8.0	<0.5	0.4	32	1.7	0.3	0.4	84	0.49	0.049	
1507138	Soil	10	1.6	215.7	15.8	59	0.4	60.9	20.4	875	4.71	17.4	10.7	2.0	40	0.4	0.4	0.5	100	1.07	0.107	
1507139	Soil	I.S.	47.6	255.8	5.7	34	0.9	51.3	56.0	9732	4.03	21.5	5.5	0.3	86	2.3	0.7	0.2	63	3.37	0.107	
1507140	Soil	I.S.	3.6	294.9	10.3	60	0.8	64.7	13.1	554	3.75	18.2	2.5	0.7	52	0.9	0.3	0.4	69	1.83	0.065	



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Project: North\_Rok  
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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1507109	Soil	5	41	0.89	181	0.061	<20	1.66	0.008	0.05	<0.1	<0.01	4.5	<0.1	<0.05	6	<0.5	<0.2
1507110	Soil	9	29	0.46	261	0.076	<20	1.85	0.008	0.06	0.2	0.02	2.8	<0.1	<0.05	11	<0.5	<0.2
1507111	Soil	8	21	0.33	157	0.126	<20	0.99	0.008	0.11	0.3	0.02	1.8	<0.1	<0.05	11	<0.5	<0.2
1507112	Soil	9	30	0.35	171	0.184	<20	1.51	0.009	0.07	0.2	<0.01	2.1	<0.1	<0.05	13	<0.5	<0.2
1507113	Soil	6	30	0.48	185	0.100	<20	1.53	0.007	0.07	0.2	0.03	3.1	<0.1	<0.05	9	<0.5	<0.2
1507114	Soil	9	33	0.59	221	0.145	<20	2.02	0.013	0.06	0.2	0.03	4.0	<0.1	<0.05	12	<0.5	<0.2
1507115	Soil	7	28	0.82	137	0.084	<20	2.01	0.013	0.06	0.2	0.06	4.7	<0.1	<0.05	8	0.6	<0.2
1507116	Soil	6	24	0.95	111	0.106	<20	1.36	0.027	0.07	0.2	0.02	6.3	<0.1	<0.05	5	0.5	<0.2
1507117	Soil	11	35	0.99	250	0.061	<20	2.07	0.016	0.11	0.1	0.17	6.3	<0.1	0.10	6	3.2	<0.2
1507119	Soil	7	22	0.58	215	0.039	<20	0.99	0.013	0.04	<0.1	0.16	2.7	<0.1	0.22	4	2.1	<0.2
1507120	Soil	13	35	1.10	214	0.172	<20	1.96	0.021	0.09	0.1	0.04	6.5	<0.1	<0.05	8	0.7	<0.2
1507121	Soil	17	33	0.79	217	0.104	<20	2.03	0.016	0.05	0.1	0.05	6.0	<0.1	<0.05	7	<0.5	<0.2
1507122	Soil	20	28	0.37	174	0.124	<20	2.86	0.020	0.09	0.4	0.04	4.0	<0.1	<0.05	17	0.5	<0.2
1507123	Soil	8	41	0.83	174	0.212	<20	2.35	0.016	0.07	0.2	0.04	3.9	<0.1	<0.05	11	<0.5	<0.2
1507124	Soil	7	43	0.93	212	0.193	<20	2.10	0.014	0.08	0.2	0.03	4.5	<0.1	<0.05	11	<0.5	<0.2
1507125	Soil	25	32	0.57	300	0.152	<20	1.97	0.015	0.06	0.2	0.05	6.2	<0.1	<0.05	12	0.7	<0.2
1507126	Soil	6	44	0.85	312	0.171	<20	2.11	0.011	0.10	0.1	0.02	4.7	<0.1	<0.05	9	<0.5	<0.2
1507128	Soil	9	37	0.67	322	0.139	<20	2.01	0.013	0.09	0.2	0.03	3.6	<0.1	<0.05	13	<0.5	<0.2
1507129	Soil	4	40	0.62	127	0.133	<20	1.55	0.009	0.10	0.1	0.04	3.6	<0.1	<0.05	8	<0.5	<0.2
1507130	Soil	8	25	0.62	144	0.042	<20	1.00	0.015	0.04	<0.1	0.09	3.1	<0.1	0.19	3	5.1	<0.2
1507131	Soil	8	29	0.66	137	0.035	<20	1.08	0.016	0.04	0.1	0.11	3.6	<0.1	0.21	4	5.4	<0.2
1507132	Soil	8	35	0.70	130	0.032	<20	1.19	0.016	0.04	0.1	0.14	3.9	<0.1	0.23	4	5.6	<0.2
1507133	Soil	7	35	0.74	121	0.054	<20	1.29	0.015	0.06	<0.1	0.07	4.8	<0.1	<0.05	5	1.8	<0.2
1507134	Soil	4	7	0.21	111	0.019	<20	0.35	0.009	0.02	<0.1	0.07	1.4	<0.1	0.20	1	1.4	<0.2
1507135	Soil	7	20	0.70	171	0.065	<20	1.17	0.016	0.05	0.2	0.14	4.2	<0.1	0.20	6	3.6	<0.2
1507136	Soil	64	32	0.50	298	0.044	<20	1.59	0.016	0.06	0.2	0.19	7.7	<0.1	0.09	6	2.2	<0.2
1507137	Soil	4	15	0.46	74	0.146	<20	0.94	0.012	0.08	0.2	0.02	3.8	<0.1	<0.05	8	<0.5	<0.2
1507138	Soil	21	40	1.30	201	0.106	<20	3.85	0.037	0.16	0.2	0.03	16.4	0.3	<0.05	11	1.5	<0.2
1507139	Soil	13	18	0.52	329	0.018	<20	1.06	0.021	0.04	0.1	0.23	4.7	0.5	0.34	3	7.4	<0.2
1507140	Soil	17	38	1.11	174	0.047	<20	2.75	0.022	0.09	0.1	0.06	9.0	0.1	0.12	8	2.9	<0.2



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**Report Date:** October 31, 2012

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# CERTIFICATE OF ANALYSIS

## SMI12000477.1

	Method Analyte Unit MDL	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1507141	Soil	<2	2.8	115.6	13.1	84	0.6	33.0	21.3	1052	4.26	21.6	2.5	0.7	49	1.1	0.4	0.5	97	1.15	0.118
1507142	Soil	<2	2.8	54.2	13.5	64	0.3	35.0	17.5	469	4.72	28.8	1.3	1.4	44	0.3	0.4	0.5	101	0.47	0.139
1507143	Soil	<2	1.7	43.6	10.5	65	0.2	13.5	12.8	537	3.21	15.0	2.7	0.3	53	1.3	0.4	0.4	78	0.90	0.111
1507144	Soil	<2	1.4	43.5	14.4	104	0.3	13.7	25.3	1518	3.64	10.1	1.9	0.5	40	2.6	0.5	0.4	93	0.47	0.095
1507145	Soil	<2	1.9	78.5	14.0	83	0.2	19.8	22.3	416	4.72	22.9	1.3	0.7	52	0.7	0.4	0.5	135	0.82	0.325
1507146	Soil	<2	1.4	69.1	7.9	425	0.3	13.3	38.3	5573	1.33	0.9	4.9	<0.1	113	14.2	0.2	0.1	21	3.05	0.209
1507147	Soil	<2	1.8	63.4	15.4	54	0.2	14.9	25.3	1014	4.61	17.8	0.9	0.4	59	0.9	0.5	0.5	122	0.71	0.200
1507148	Soil	<2	1.8	47.6	20.5	134	0.3	17.7	63.2	5490	5.39	7.5	1.8	1.1	69	3.3	0.3	0.4	70	0.63	0.270
1507149	Soil	<2	3.6	72.2	15.2	96	0.3	19.6	29.3	788	6.23	31.5	2.8	0.3	119	1.0	0.6	0.8	108	0.51	0.138
1507150	Soil	<2	2.6	28.0	13.0	58	0.3	19.0	19.0	645	4.91	30.2	0.6	0.3	92	0.6	0.5	0.9	100	0.29	0.089
1507151	Soil	<2	1.0	11.7	9.6	132	0.2	37.9	15.1	676	4.32	6.4	2.2	1.1	14	0.7	0.3	0.2	71	0.16	0.107
1507152	Soil	<2	1.6	16.0	10.7	117	0.2	51.0	15.3	849	4.72	9.5	1.9	1.6	19	0.3	0.3	0.3	62	0.19	0.131
1507153	Soil	4	1.4	10.1	7.9	58	<0.1	33.1	6.8	209	2.83	6.4	1.6	1.1	15	0.1	0.3	1.2	54	0.22	0.067
1507154	Soil	<2	0.9	26.4	7.3	69	<0.1	65.8	11.9	408	3.41	7.2	1.9	0.6	20	0.2	0.4	0.1	60	0.24	0.064
1507155	Soil	<2	1.2	16.2	9.7	110	0.3	45.5	18.3	981	4.05	7.2	<0.5	1.0	19	0.5	0.4	0.2	65	0.23	0.176
1507157	Soil	<2	1.0	30.7	8.7	73	<0.1	73.1	13.8	544	3.57	7.8	2.2	1.0	21	0.2	0.5	0.1	64	0.25	0.070
1507158	Soil	<2	1.1	13.2	7.6	70	<0.1	42.0	10.8	344	3.37	7.1	<0.5	1.1	15	0.2	0.4	0.4	59	0.17	0.062
1507159	Soil	<2	1.1	32.1	9.7	75	<0.1	73.7	16.6	607	3.82	8.5	2.2	1.0	20	0.2	0.4	0.1	68	0.27	0.061
1507160	Soil	2	0.9	32.9	7.6	64	<0.1	72.5	12.8	416	3.57	7.8	0.9	0.8	19	0.1	0.5	0.1	64	0.19	0.053
1507161	Soil	9	1.4	62.8	7.2	87	0.3	121.2	16.7	362	5.22	7.0	2.7	0.7	51	0.6	0.3	0.1	78	0.66	0.100
1507162	Soil	<2	1.4	15.9	9.0	78	<0.1	43.0	11.7	427	3.82	6.2	<0.5	0.8	24	0.3	0.3	0.2	59	0.57	0.040
1507163	Soil	<2	0.6	58.0	6.5	104	0.3	53.1	7.5	304	2.74	4.8	0.6	0.8	85	1.1	0.2	0.2	32	1.87	0.074
1507164	Soil	<2	7.2	57.6	8.5	54	0.3	69.8	22.9	6657	7.41	28.1	2.3	0.6	80	0.7	0.6	0.2	93	1.65	0.129
1507165	Soil	11	3.0	60.7	4.9	28	0.4	59.7	18.5	6811	3.15	10.6	1.2	0.3	107	0.3	0.6	0.1	47	2.68	0.098
1507166	Soil	I.S.	10.8	46.7	3.3	62	0.2	83.5	35.1	>10000	4.54	20.6	2.8	0.2	116	1.9	0.3	<0.1	40	2.61	0.125
1507167	Soil	<2	1.3	21.1	12.0	122	<0.1	48.9	16.8	971	4.72	15.6	1.3	1.1	24	0.6	0.5	0.3	63	0.33	0.226
1507168	Soil	7	1.7	29.0	4.9	37	0.1	24.1	2.6	1492	1.44	1.6	1.7	0.4	75	0.4	0.2	0.1	32	1.84	0.080
1507169	Soil	18	10.1	70.5	6.3	75	0.4	47.1	11.7	8318	5.25	38.8	2.6	0.3	65	0.8	0.5	0.2	96	1.24	0.274
1507170	Soil	<2	1.5	70.2	12.4	84	0.2	34.1	9.2	545	2.55	10.4	5.4	0.7	69	0.7	0.5	0.5	73	1.17	0.113
1507171	Soil	<2	4.2	28.9	5.7	57	<0.1	40.6	12.4	2551	3.27	17.6	1.7	0.6	51	0.3	0.4	0.2	59	1.05	0.118



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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1507141	Soil	13	27	0.96	121	0.092	<20	2.27	0.015	0.27	0.2	0.04	6.9	<0.1	<0.05	8	1.3	<0.2
1507142	Soil	8	26	1.06	135	0.093	<20	2.70	0.018	0.11	1.5	0.02	6.4	<0.1	<0.05	12	1.0	<0.2
1507143	Soil	2	14	0.64	103	0.082	<20	1.28	0.011	0.16	0.2	0.10	3.6	<0.1	<0.05	6	0.7	<0.2
1507144	Soil	3	15	0.56	121	0.130	<20	1.14	0.010	0.16	0.2	0.01	4.4	<0.1	<0.05	7	<0.5	<0.2
1507145	Soil	4	20	1.45	110	0.116	<20	2.67	0.012	0.16	0.2	0.02	9.4	<0.1	<0.05	10	1.0	<0.2
1507146	Soil	2	10	0.35	311	0.020	35	0.45	0.008	0.20	<0.1	0.08	1.3	<0.1	0.17	2	1.5	<0.2
1507147	Soil	3	17	1.15	101	0.125	<20	1.71	0.013	0.16	0.3	0.03	6.9	<0.1	<0.05	9	0.5	<0.2
1507148	Soil	7	24	0.36	253	0.239	<20	1.41	0.017	0.14	0.1	0.03	3.3	<0.1	<0.05	13	<0.5	<0.2
1507149	Soil	4	20	0.94	90	0.099	<20	2.71	0.020	0.18	0.3	0.03	4.8	<0.1	0.12	10	2.2	0.6
1507150	Soil	4	23	0.57	118	0.118	<20	1.71	0.019	0.09	0.2	0.03	3.5	<0.1	0.07	9	0.9	0.4
1507151	Soil	5	39	0.48	121	0.094	<20	1.76	0.010	0.09	<0.1	0.02	2.8	<0.1	<0.05	9	<0.5	<0.2
1507152	Soil	11	41	0.72	171	0.106	<20	1.91	0.013	0.09	0.2	0.03	3.9	<0.1	<0.05	11	<0.5	<0.2
1507153	Soil	7	32	0.62	77	0.091	<20	1.24	0.011	0.08	0.1	0.04	3.2	<0.1	<0.05	7	<0.5	<0.2
1507154	Soil	6	55	0.92	104	0.037	<20	1.55	0.011	0.08	<0.1	0.04	4.2	<0.1	<0.05	6	<0.5	<0.2
1507155	Soil	6	47	0.70	183	0.097	<20	1.50	0.010	0.10	0.1	0.01	3.9	<0.1	<0.05	8	<0.5	<0.2
1507157	Soil	6	58	0.96	112	0.051	<20	1.52	0.010	0.08	<0.1	0.05	4.9	<0.1	<0.05	6	<0.5	<0.2
1507158	Soil	5	41	0.66	105	0.087	<20	1.49	0.009	0.08	0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
1507159	Soil	6	62	1.03	107	0.047	<20	1.65	0.011	0.09	<0.1	0.07	5.2	<0.1	<0.05	5	<0.5	<0.2
1507160	Soil	6	60	0.99	107	0.030	<20	1.62	0.010	0.09	<0.1	0.07	5.2	<0.1	<0.05	6	0.7	<0.2
1507161	Soil	12	87	1.26	275	0.009	<20	3.09	0.010	0.20	<0.1	0.12	8.3	<0.1	<0.05	9	0.7	<0.2
1507162	Soil	9	42	0.62	81	0.104	<20	1.77	0.013	0.10	0.1	0.03	3.3	<0.1	<0.05	9	<0.5	<0.2
1507163	Soil	23	25	0.44	130	0.061	<20	1.49	0.015	0.07	0.1	0.05	3.6	<0.1	0.07	8	1.0	<0.2
1507164	Soil	10	48	0.69	272	0.033	<20	1.52	0.020	0.06	<0.1	0.12	5.8	<0.1	0.12	6	1.7	<0.2
1507165	Soil	8	27	0.51	346	0.025	<20	0.99	0.019	0.06	<0.1	0.16	3.8	0.1	0.33	4	2.1	<0.2
1507166	Soil	6	24	0.43	749	0.018	<20	0.72	0.020	0.03	<0.1	0.12	2.7	0.1	0.45	3	2.6	<0.2
1507167	Soil	11	36	0.72	159	0.093	<20	2.12	0.015	0.14	0.2	0.03	4.5	<0.1	<0.05	11	<0.5	<0.2
1507168	Soil	5	29	0.46	116	0.060	<20	0.95	0.019	0.04	<0.1	0.13	4.0	<0.1	0.54	4	6.3	<0.2
1507169	Soil	17	40	0.60	276	0.064	<20	1.75	0.019	0.08	0.1	0.09	4.9	<0.1	0.11	8	1.7	<0.2
1507170	Soil	10	31	1.09	173	0.120	<20	1.84	0.029	0.07	0.2	0.09	7.2	<0.1	0.11	7	1.9	<0.2
1507171	Soil	5	37	0.83	296	0.092	<20	1.28	0.021	0.06	0.2	0.05	5.4	<0.1	0.08	5	<0.5	<0.2







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# CERTIFICATE OF ANALYSIS

# SMI12000477.1

	Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1507172	Soil	7	46	0.92	159	0.113	<20	1.55	0.021	0.07	<0.1	0.07	7.1	<0.1	<0.05	5	1.3	<0.2
1507173	Soil	5	24	1.03	93	0.108	<20	1.83	0.016	0.11	0.2	0.02	6.3	<0.1	<0.05	8	0.6	0.2
1507174	Soil	6	24	0.79	106	0.113	<20	1.81	0.015	0.14	0.2	0.02	5.2	<0.1	<0.05	9	<0.5	<0.2
1507175	Soil	8	18	0.37	118	0.157	<20	0.99	0.012	0.13	0.2	0.01	2.8	<0.1	<0.05	11	<0.5	<0.2
1507176	Soil	9	27	0.68	227	0.131	<20	2.03	0.013	0.15	0.2	0.01	4.8	<0.1	<0.05	12	0.6	<0.2
1507177	Soil	5	18	1.10	131	0.143	<20	2.63	0.032	0.14	0.2	0.03	6.1	<0.1	0.13	10	1.5	0.3
1507178	Soil	4	17	0.99	155	0.121	<20	2.16	0.023	0.15	0.3	0.04	5.5	<0.1	0.13	8	1.0	<0.2
1507179	Soil	3	24	1.01	108	0.142	<20	2.07	0.011	0.12	0.2	0.03	6.2	<0.1	<0.05	10	0.6	0.2
1507180	Soil	4	16	0.53	158	0.177	<20	1.53	0.024	0.12	0.4	0.05	3.4	<0.1	0.15	12	1.5	0.3
1507181	Soil	4	16	0.86	146	0.146	<20	2.51	0.043	0.14	0.5	0.07	4.7	<0.1	0.34	12	3.4	0.5
1507182	Soil	4	14	0.53	122	0.067	<20	2.27	0.029	0.13	0.4	0.07	4.7	<0.1	0.27	8	4.0	0.6
1507183	Soil	5	12	1.05	155	0.160	<20	2.79	0.083	0.22	0.4	0.12	11.5	<0.1	0.85	11	14.6	0.7
1507184	Soil	5	14	0.69	103	0.094	<20	3.02	0.023	0.11	0.4	0.08	9.3	<0.1	0.30	8	4.6	0.3
1507185	Soil	4	22	0.85	72	0.087	<20	2.38	0.020	0.08	0.2	0.05	3.9	<0.1	0.10	8	1.1	<0.2
1507186	Soil	4	19	0.93	147	0.095	<20	2.06	0.012	0.13	0.9	0.06	3.6	<0.1	0.12	9	<0.5	<0.2
1507187	Soil	3	22	0.78	110	0.075	<20	2.07	0.010	0.07	0.1	0.04	3.5	<0.1	0.06	9	<0.5	0.2
1507188	Soil	6	35	0.93	174	0.046	<20	2.56	0.012	0.14	0.1	0.07	5.0	<0.1	<0.05	8	<0.5	0.2
1507189	Soil	3	16	0.47	175	0.018	<20	1.09	0.010	0.15	<0.1	0.15	1.4	<0.1	0.15	4	<0.5	<0.2
1507190	Soil	3	11	0.26	235	0.008	<20	1.46	0.010	0.05	0.1	0.09	0.8	<0.1	0.26	4	0.8	<0.2
1507191	Soil	5	33	0.65	106	0.035	<20	1.06	0.020	0.07	<0.1	0.10	3.1	<0.1	0.25	3	1.9	<0.2
1507192	Soil	22	61	0.80	211	0.046	<20	2.27	0.021	0.13	<0.1	0.12	7.7	0.1	0.11	10	3.5	<0.2
1507193	Soil	18	74	1.12	192	0.044	<20	2.25	0.023	0.14	<0.1	0.12	9.6	0.1	<0.05	8	0.6	<0.2
1507194	Soil	38	48	0.63	275	0.067	<20	1.60	0.023	0.08	0.2	0.71	12.0	0.2	0.11	6	2.2	<0.2
1507195	Soil	23	35	0.20	265	0.170	<20	1.26	0.029	0.02	0.4	0.22	5.8	<0.1	0.34	7	3.5	<0.2
1507196	Soil	23	23	0.28	190	0.029	<20	1.14	0.026	0.02	0.2	0.44	3.3	0.1	2.06	3	16.6	<0.2
1507197	Soil	14	14	0.24	92	0.018	<20	0.67	0.022	0.03	<0.1	0.27	3.0	<0.1	0.58	2	1.4	<0.2
1507198	Soil	7	31	0.66	145	0.060	<20	1.64	0.011	0.07	0.1	0.03	4.4	<0.1	<0.05	6	<0.5	<0.2
1507199	Soil	14	35	0.48	98	0.111	<20	1.28	0.023	0.05	<0.1	0.04	4.1	<0.1	<0.05	9	0.6	<0.2
1507200	Soil	11	57	0.83	125	0.039	<20	2.02	0.019	0.10	<0.1	0.08	6.3	<0.1	0.09	6	2.5	<0.2
1507201	Soil	5	22	0.92	118	0.068	<20	2.27	0.011	0.22	1.2	0.03	4.3	<0.1	0.06	9	0.6	0.2





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Method Analyte Unit MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
1507202	Soil	5	20	1.23	69	0.089	<20	4.25	0.014	0.11	0.2	0.03	6.0	<0.1	0.07	13	<0.5	0.2
1507203	Soil	4	19	1.57	115	0.154	<20	3.90	0.026	0.09	0.1	0.04	8.2	<0.1	<0.05	14	<0.5	<0.2
1507204	Soil	4	28	0.68	136	0.038	<20	2.40	0.014	0.06	0.1	0.05	1.8	<0.1	0.05	11	<0.5	<0.2
1507205	Soil	4	17	0.49	116	0.123	<20	2.67	0.020	0.05	0.2	0.06	2.8	<0.1	0.13	10	1.4	<0.2
1507206	Soil	3	10	0.51	125	0.036	<20	2.62	0.013	0.08	0.2	0.10	2.3	<0.1	0.17	8	2.6	<0.2
1507207	Soil	2	9	0.38	90	0.018	<20	3.01	0.011	0.04	0.2	0.16	2.0	<0.1	0.17	5	2.9	<0.2
1507208	Soil	14	39	0.73	190	0.035	<20	2.00	0.021	0.05	0.1	0.07	4.6	0.1	1.28	4	11.7	<0.2
1507209	Soil	19	14	0.14	45	0.007	<20	1.17	0.022	0.02	<0.1	0.26	3.6	<0.1	1.15	1	28.4	<0.2
1507210	Soil	8	31	0.46	103	0.085	<20	1.23	0.019	0.08	0.2	0.04	4.1	<0.1	<0.05	7	1.5	<0.2
1507211	Soil	16	35	0.80	363	0.111	<20	1.99	0.013	0.23	<0.1	0.09	6.6	<0.1	<0.05	6	0.8	<0.2
1507212	Soil	8	34	0.79	235	0.123	<20	2.84	0.023	0.09	0.3	0.09	6.3	<0.1	0.10	10	2.2	<0.2
1507213	Soil	5	29	0.96	123	0.129	<20	3.01	0.018	0.09	0.3	0.05	7.0	<0.1	<0.05	9	2.0	<0.2
1507214	Soil	6	28	1.02	150	0.143	<20	3.28	0.013	0.09	0.3	0.06	7.3	<0.1	0.05	9	2.0	<0.2
1507215	Soil	7	40	0.63	96	0.327	<20	3.52	0.015	0.09	0.4	0.07	4.7	<0.1	<0.05	13	0.6	<0.2
1507216	Soil	8	11	0.38	19	0.017	<20	1.48	0.022	0.04	0.1	0.09	1.4	<0.1	0.14	4	10.5	<0.2
1507217	Soil	5	21	0.32	160	0.269	<20	1.30	0.020	0.07	0.2	0.04	3.5	<0.1	<0.05	13	1.3	<0.2
1507218	Soil	4	17	0.31	99	0.111	<20	1.18	0.021	0.07	0.1	0.03	3.1	<0.1	<0.05	8	1.0	<0.2
1507219	Soil	5	18	0.33	134	0.131	<20	1.54	0.015	0.08	0.2	0.05	2.8	<0.1	0.10	10	1.5	0.2
1507220	Soil	6	14	0.29	142	0.044	<20	1.98	0.019	0.09	0.2	0.10	2.8	<0.1	0.18	6	6.3	<0.2
1507221	Soil	5	18	0.42	143	0.073	<20	2.19	0.017	0.09	0.3	0.08	3.4	<0.1	0.10	10	3.2	0.3
1507222	Soil	9	53	1.24	205	0.108	<20	1.76	0.023	0.12	<0.1	0.07	8.7	<0.1	<0.05	6	<0.5	<0.2
1507223	Soil	7	51	0.97	175	0.063	<20	1.61	0.014	0.09	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
1507224	Soil	30	51	0.81	204	0.051	<20	1.78	0.019	0.10	0.1	0.32	10.0	0.1	0.06	7	1.9	<0.2
1507225	Soil	16	48	0.82	202	0.048	<20	2.00	0.018	0.10	0.1	0.07	6.3	<0.1	<0.05	9	1.5	<0.2
1507226	Soil	8	63	0.97	512	0.023	<20	2.13	0.016	0.09	<0.1	0.07	7.1	<0.1	0.06	8	2.4	<0.2
1507227	Soil	25	47	0.82	313	0.041	<20	2.27	0.020	0.12	0.1	0.17	7.5	0.1	0.11	11	8.7	<0.2
1507228	Soil	11	36	0.58	177	0.126	<20	1.48	0.021	0.08	0.2	0.07	4.1	<0.1	0.09	11	1.2	<0.2
1507229	Soil	15	32	0.57	231	0.037	<20	1.96	0.020	0.08	0.2	0.24	5.5	<0.1	0.22	9	3.2	<0.2
1507230	Soil	12	35	0.59	204	0.118	<20	2.06	0.024	0.13	<0.1	0.02	5.4	<0.1	<0.05	11	0.8	<0.2
1507231	Soil	11	46	0.81	135	0.055	<20	1.52	0.021	0.08	<0.1	0.07	5.6	<0.1	0.07	6	2.1	<0.2





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Project: North\_Rok  
 Report Date: October 31, 2012

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# CERTIFICATE OF ANALYSIS

## SMI12000477.1

Method	Analyte	Unit	MDL	1DX La	1DX Cr	1DX Mg	1DX Ba	1DX Ti	1DX B	1DX Al	1DX Na	1DX K	1DX W	1DX Hg	1DX Sc	1DX TI	1DX S	1DX Ga	1DX Se	1DX Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.2
1507232	Soil			13	39	0.74	250	0.154	<20	1.58	0.030	0.08	<0.1	0.06	6.2	<0.1	0.07	8	3.1	<0.2
1507233	Soil			13	32	0.68	202	0.059	<20	1.52	0.022	0.08	0.2	0.12	6.7	<0.1	0.13	7	10.9	<0.2
1507234	Soil			11	24	0.28	106	0.108	<20	0.91	0.015	0.09	0.2	0.03	2.3	<0.1	<0.05	9	2.8	<0.2
1507235	Soil			9	26	0.26	487	0.138	<20	1.25	0.012	0.11	0.2	0.05	3.2	<0.1	<0.05	10	0.8	<0.2
1507236	Soil			5	27	0.53	137	0.108	<20	1.52	0.010	0.15	0.1	0.03	3.5	<0.1	0.06	9	0.6	<0.2
1507237	Soil			6	23	0.60	98	0.117	<20	1.55	0.014	0.13	0.3	0.02	4.5	<0.1	<0.05	11	0.6	<0.2
1507238	Soil			5	31	0.94	78	0.148	<20	2.19	0.015	0.12	0.3	0.03	6.2	<0.1	<0.05	8	<0.5	<0.2
1507239	Soil			5	29	0.77	159	0.123	<20	2.16	0.016	0.08	0.3	0.03	5.6	<0.1	<0.05	11	0.8	0.3
1507240	Soil			6	24	0.73	116	0.107	<20	1.91	0.015	0.07	0.5	0.02	5.0	<0.1	<0.05	13	<0.5	0.2
1507241	Soil			5	26	0.89	174	0.088	<20	2.29	0.016	0.10	0.5	0.02	5.1	<0.1	<0.05	8	0.7	<0.2
1507242	Soil			5	20	0.97	210	0.106	<20	3.20	0.017	0.09	0.5	0.04	5.7	<0.1	0.06	11	1.4	<0.2
1507243	Soil			4	15	1.14	106	0.153	<20	2.28	0.013	0.06	0.2	0.03	5.7	<0.1	<0.05	13	1.1	<0.2
1507244	Soil			4	16	0.68	111	0.097	<20	3.06	0.023	0.07	0.4	0.07	4.0	<0.1	0.13	10	3.1	0.4
1507245	Soil			6	25	0.42	138	0.166	<20	1.69	0.016	0.10	0.2	0.04	5.0	<0.1	0.07	12	1.0	<0.2
1507246	Soil			4	20	0.98	65	0.112	<20	3.49	0.013	0.06	0.2	0.05	5.6	<0.1	<0.05	11	1.9	0.4
1507247	Soil			7	14	0.37	57	0.039	<20	2.64	0.010	0.04	0.2	0.07	1.9	<0.1	0.08	9	0.9	<0.2
1507248	Soil			7	71	1.23	115	0.037	<20	3.20	0.017	0.04	0.2	0.12	10.6	<0.1	<0.05	10	1.7	0.4
1507249	Soil			6	22	0.96	71	0.128	<20	3.97	0.016	0.06	0.3	0.05	5.5	<0.1	<0.05	14	0.8	0.2
1507250	Soil			4	25	0.61	107	0.145	<20	2.94	0.017	0.03	0.3	0.05	4.7	<0.1	<0.05	12	0.5	0.2
1507251	Soil			9	64	1.07	277	0.029	<20	1.90	0.013	0.09	<0.1	0.15	8.6	<0.1	<0.05	6	0.8	<0.2
1507252	Soil			2	6	0.25	154	0.008	<20	0.26	0.011	<0.01	<0.1	0.13	1.9	<0.1	1.88	<1	4.6	<0.2
1507253	Soil			1	7	0.26	152	0.006	<20	0.24	0.011	<0.01	<0.1	0.17	1.9	0.1	1.02	<1	24.7	<0.2
1507254	Soil			11	44	0.60	216	0.114	<20	2.13	0.013	0.24	0.1	0.05	4.8	<0.1	<0.05	10	<0.5	<0.2
1507255	Soil			5	49	0.83	89	0.047	<20	1.53	0.011	0.07	<0.1	0.03	4.0	<0.1	<0.05	5	<0.5	<0.2
1507256	Soil			5	29	0.49	82	0.073	<20	1.25	0.011	0.11	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
1507257	Soil			4	44	0.65	99	0.056	<20	1.38	0.011	0.13	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
1507258	Soil			8	39	0.45	90	0.127	<20	1.31	0.014	0.06	<0.1	0.03	2.8	<0.1	<0.05	10	0.7	<0.2
1507259	Soil			5	60	0.94	145	0.036	<20	1.85	0.012	0.10	<0.1	0.04	6.1	<0.1	<0.05	6	2.1	<0.2
1507260	Soil			7	36	0.56	143	0.085	<20	1.35	0.009	0.09	<0.1	0.04	3.7	<0.1	<0.05	7	0.6	<0.2
1507261	Soil			14	44	0.99	180	0.061	<20	1.60	0.015	0.08	0.1	0.10	6.7	<0.1	<0.05	6	1.5	<0.2



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CERTIFICATE OF ANALYSIS

SMI12000477.1

Method	Analyte	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1507262	Soil	4	5.4	90.7	9.5	106	0.5	49.6	11.5	942	3.36	9.4	3.9	0.5	62	0.5	0.6	0.4	49	1.86	0.072
1507263	Soil	5	6.2	89.1	8.9	86	0.4	50.1	8.4	513	3.28	8.8	2.3	0.6	56	0.2	0.4	0.3	45	1.58	0.078
1507264	Soil	6	4.3	278.9	7.3	42	1.2	86.7	8.2	486	2.65	8.6	2.7	0.5	60	0.5	0.9	0.2	45	2.36	0.061
1507265	Soil	<2	2.3	14.4	10.7	40	0.7	7.8	3.7	129	2.98	9.7	1.6	0.4	8	0.3	0.5	0.3	83	0.07	0.041
1507266	Soil	2	4.2	25.2	20.9	80	0.8	13.7	7.9	399	5.49	18.3	2.0	0.7	17	0.7	0.6	0.5	114	0.08	0.132
1507267	Soil	7	3.2	39.9	23.8	88	0.3	11.3	8.3	341	4.36	29.0	2.8	0.2	20	0.9	0.5	0.5	114	0.09	0.108
1507268	Soil	10	4.7	44.8	21.9	85	0.3	17.5	9.7	388	6.34	27.5	3.8	0.6	23	0.3	0.6	0.5	165	0.14	0.108
1507269	Soil	13	3.6	31.4	17.6	87	0.3	23.8	8.7	312	5.09	14.4	5.4	1.2	15	0.3	0.6	0.4	89	0.09	0.058
1507270	Soil	8	2.6	26.2	15.9	48	0.6	9.9	6.2	221	4.10	19.1	5.2	0.4	17	0.4	0.5	0.5	131	0.09	0.065
1507271	Soil	7	3.5	36.7	17.6	105	1.3	27.1	9.8	364	6.79	17.9	4.2	0.9	14	0.7	0.6	0.4	104	0.09	0.068
1507272	Soil	<2	3.9	28.5	16.9	68	0.4	16.3	8.1	404	4.71	17.7	0.9	0.2	17	0.4	0.5	0.4	111	0.11	0.090
1507273	Soil	8	3.1	31.4	20.7	41	0.5	12.2	5.3	153	2.17	9.1	9.3	<0.1	23	0.3	0.3	0.4	70	0.13	0.056
1507274	Soil	4	3.1	38.7	16.4	67	1.6	19.8	9.1	318	3.95	16.4	0.8	0.2	23	0.4	0.4	0.4	119	0.16	0.070
1507275	Soil	21	5.1	128.9	47.8	93	0.7	25.3	13.3	501	7.27	24.6	20.4	0.4	63	0.7	0.8	0.8	112	0.21	0.213
1507276	Soil	24	4.5	120.0	37.7	84	0.8	28.2	13.9	568	7.88	27.8	19.9	0.9	70	0.2	0.9	0.8	114	0.26	0.223
1507277	Soil	14	3.6	128.9	27.6	80	0.4	21.9	32.5	1024	5.73	22.5	11.9	0.6	54	0.4	0.8	0.6	94	0.31	0.175
1507278	Soil	18	4.7	88.6	45.4	86	0.8	24.6	12.0	641	7.05	25.5	17.4	0.4	59	0.8	0.7	0.7	114	0.34	0.194
1507279	Soil	10	3.9	76.2	17.4	100	0.7	55.1	23.6	1264	5.22	9.7	6.7	0.5	49	0.3	0.3	0.3	90	0.68	0.090
1507280	Soil	10	1.8	40.6	19.2	34	0.7	16.4	4.5	179	1.50	2.6	3.9	0.1	46	0.1	0.1	0.3	39	1.00	0.042



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 Report Date: October 31, 2012

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CERTIFICATE OF ANALYSIS

SMI12000477.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1507262	Soil	18	29	0.58	232	0.079	<20	1.31	0.038	0.05	0.2	0.12	3.8	<0.1	0.10	8	4.5	<0.2
1507263	Soil	18	28	0.57	279	0.064	<20	1.52	0.016	0.05	0.2	0.08	2.7	<0.1	0.06	9	3.7	<0.2
1507264	Soil	15	24	0.43	176	0.065	<20	1.15	0.013	0.04	0.2	0.31	4.0	<0.1	0.10	6	7.3	<0.2
1507265	Soil	7	15	0.28	75	0.123	<20	0.83	0.009	0.07	0.2	0.02	2.4	<0.1	<0.05	10	<0.5	<0.2
1507266	Soil	9	24	0.42	104	0.190	<20	1.23	0.010	0.04	0.3	0.03	2.7	<0.1	<0.05	18	<0.5	<0.2
1507267	Soil	6	21	0.49	129	0.152	<20	1.35	0.012	0.06	0.2	0.02	2.7	<0.1	<0.05	13	<0.5	<0.2
1507268	Soil	6	26	0.58	112	0.211	<20	1.40	0.012	0.04	0.3	0.03	3.4	<0.1	<0.05	14	0.8	<0.2
1507269	Soil	11	28	0.53	101	0.145	<20	2.25	0.011	0.04	0.3	0.05	3.5	<0.1	<0.05	15	<0.5	<0.2
1507270	Soil	6	19	0.32	89	0.178	<20	1.02	0.010	0.03	0.2	0.13	2.2	<0.1	<0.05	13	0.7	<0.2
1507271	Soil	8	35	0.54	95	0.154	<20	2.28	0.011	0.06	0.3	0.06	3.6	<0.1	<0.05	15	0.8	<0.2
1507272	Soil	7	27	0.44	142	0.100	<20	1.39	0.013	0.06	0.2	0.04	2.7	<0.1	<0.05	13	<0.5	<0.2
1507273	Soil	5	23	0.32	110	0.110	<20	1.24	0.011	0.04	0.2	0.06	2.0	<0.1	<0.05	10	0.8	<0.2
1507274	Soil	5	27	0.73	114	0.148	<20	1.72	0.013	0.07	0.2	0.06	3.8	<0.1	<0.05	12	<0.5	<0.2
1507275	Soil	8	27	1.06	198	0.111	<20	2.86	0.030	0.12	0.2	0.10	5.7	<0.1	0.28	9	2.6	0.8
1507276	Soil	6	27	1.20	177	0.132	<20	2.78	0.031	0.11	0.2	0.10	7.1	<0.1	0.31	8	2.3	0.8
1507277	Soil	16	22	1.04	119	0.109	<20	2.62	0.023	0.09	0.2	0.12	6.1	<0.1	0.23	7	3.3	0.3
1507278	Soil	7	28	1.00	177	0.128	<20	2.13	0.026	0.10	0.2	0.07	4.3	<0.1	0.22	9	1.7	0.8
1507279	Soil	13	44	0.90	338	0.061	<20	3.03	0.009	0.11	0.1	0.17	6.4	0.1	<0.05	11	6.3	<0.2
1507280	Soil	9	25	0.32	134	0.129	<20	1.10	0.008	0.04	0.1	0.10	2.2	<0.1	<0.05	8	3.2	<0.2





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QUALITY CONTROL REPORT

SMI12000477.1

Method	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1507094	Soil	7	5.3	64.7	20.2	97	0.4	35.9	13.8	389	7.09	20.8	3.1	1.8	18	0.6	0.5	0.3	94	0.12	0.078
REP 1507094	QC		5.3	62.0	20.4	94	0.4	35.3	12.6	360	7.08	20.5	37.3	1.7	17	0.4	0.5	0.3	90	0.11	0.075
1507103	Soil	19	1.6	20.7	7.3	57	0.2	56.6	12.1	311	3.86	7.5	4.8	0.6	25	0.1	0.4	0.1	62	0.29	0.057
REP 1507103	QC	<2																			
1507132	Soil	<2	14.6	75.5	6.8	50	0.2	47.8	12.3	1356	2.77	42.0	2.4	0.3	57	0.9	0.5	0.2	62	2.02	0.104
REP 1507132	QC		13.6	70.6	6.8	52	0.2	46.6	12.2	1281	2.78	42.3	3.2	0.3	54	0.8	0.5	0.1	62	1.92	0.102
1507138	Soil	10	1.6	215.7	15.8	59	0.4	60.9	20.4	875	4.71	17.4	10.7	2.0	40	0.4	0.4	0.5	100	1.07	0.107
REP 1507138	QC	<2																			
1507169	Soil	18	10.1	70.5	6.3	75	0.4	47.1	11.7	8318	5.25	38.8	2.6	0.3	65	0.8	0.5	0.2	96	1.24	0.274
REP 1507169	QC		10.1	70.0	6.5	76	0.4	47.3	11.6	8199	5.18	39.7	0.9	0.3	63	1.1	0.4	0.2	96	1.20	0.272
1507176	Soil	<2	1.5	27.8	14.2	166	0.4	26.9	24.2	1497	5.02	16.0	1.2	1.7	39	0.8	0.4	0.5	83	0.38	0.184
REP 1507176	QC	<2																			
1507205	Soil	10	3.2	62.2	15.7	36	0.4	11.9	7.1	391	5.90	12.7	5.5	<0.1	40	0.4	0.4	0.3	104	0.18	0.146
REP 1507205	QC		3.2	64.2	16.4	36	0.4	11.7	7.3	400	5.85	12.9	6.5	<0.1	39	0.4	0.3	0.3	105	0.19	0.144
1507211	Soil	3	1.0	42.4	9.2	262	0.3	53.5	66.4	2827	3.94	8.9	2.6	1.6	61	3.1	0.5	0.2	56	1.10	0.209
REP 1507211	QC	<2																			
1507241	Soil	61	2.4	109.3	11.5	63	0.7	25.9	11.6	361	4.99	24.5	369.7	1.0	55	0.2	0.6	0.4	93	0.33	0.067
REP 1507241	QC		2.6	104.8	11.5	58	0.4	24.5	11.1	349	4.80	23.1	10.2	0.9	53	0.2	0.5	0.4	90	0.29	0.062
1507246	Soil	27	5.3	300.1	16.7	105	0.5	20.5	25.3	484	7.22	57.0	13.0	0.6	44	0.2	0.8	0.5	135	0.20	0.147
REP 1507246	QC	23																			
1507277	Soil	14	3.6	128.9	27.6	80	0.4	21.9	32.5	1024	5.73	22.5	11.9	0.6	54	0.4	0.8	0.6	94	0.31	0.175
REP 1507277	QC		3.8	127.9	26.7	75	0.4	21.4	33.6	996	5.53	22.0	16.9	0.5	51	0.5	0.7	0.6	91	0.32	0.177
1507279	Soil	10	3.9	76.2	17.4	100	0.7	55.1	23.6	1264	5.22	9.7	6.7	0.5	49	0.3	0.3	0.3	90	0.68	0.090
REP 1507279	QC	6																			
Reference Materials																					
STD DS9	Standard		11.0	107.1	118.5	306	1.7	39.0	7.1	556	2.56	25.2	113.3	6.0	62	2.4	4.8	5.3	40	0.71	0.078
STD DS9	Standard		12.3	103.7	126.7	300	1.8	37.7	7.0	565	2.36	25.7	106.4	5.7	65	2.3	5.5	6.3	39	0.64	0.078
STD DS9	Standard		11.0	107.4	129.9	299	1.8	39.0	7.0	559	2.41	24.9	102.6	5.7	66	2.3	5.4	6.4	40	0.64	0.082

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



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 West Kelowna BC V4T 2N6 Canada

Project: North\_Rok  
 Report Date: October 31, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000477.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1507094	Soil	6	36	0.82	117	0.178	<20	2.72	0.008	0.05	0.2	0.05	4.4	<0.1	<0.05	13	<0.5	<0.2
REP 1507094	QC	6	34	0.78	113	0.172	<20	2.62	0.009	0.05	0.3	0.07	4.4	<0.1	<0.05	13	<0.5	<0.2
1507103	Soil	5	47	0.88	156	0.082	<20	1.70	0.007	0.08	<0.1	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
REP 1507103	QC																	
1507132	Soil	8	35	0.70	130	0.032	<20	1.19	0.016	0.04	0.1	0.14	3.9	<0.1	0.23	4	5.6	<0.2
REP 1507132	QC	8	34	0.70	126	0.034	<20	1.22	0.014	0.04	0.1	0.13	3.8	<0.1	0.21	4	5.6	<0.2
1507138	Soil	21	40	1.30	201	0.106	<20	3.85	0.037	0.16	0.2	0.03	16.4	0.3	<0.05	11	1.5	<0.2
REP 1507138	QC																	
1507169	Soil	17	40	0.60	276	0.064	<20	1.75	0.019	0.08	0.1	0.09	4.9	<0.1	0.11	8	1.7	<0.2
REP 1507169	QC	17	39	0.61	283	0.059	<20	1.74	0.019	0.07	0.1	0.09	4.6	<0.1	0.11	8	1.0	<0.2
1507176	Soil	9	27	0.68	227	0.131	<20	2.03	0.013	0.15	0.2	0.01	4.8	<0.1	<0.05	12	0.6	<0.2
REP 1507176	QC																	
1507205	Soil	4	17	0.49	116	0.123	<20	2.67	0.020	0.05	0.2	0.06	2.8	<0.1	0.13	10	1.4	<0.2
REP 1507205	QC	4	18	0.48	117	0.119	<20	2.65	0.015	0.05	0.2	0.06	2.7	<0.1	0.15	11	1.1	<0.2
1507211	Soil	16	35	0.80	363	0.111	<20	1.99	0.013	0.23	<0.1	0.09	6.6	<0.1	<0.05	6	0.8	<0.2
REP 1507211	QC																	
1507241	Soil	5	26	0.89	174	0.088	<20	2.29	0.016	0.10	0.5	0.02	5.1	<0.1	<0.05	8	0.7	<0.2
REP 1507241	QC	4	26	0.87	167	0.089	<20	2.23	0.014	0.10	0.6	0.02	4.8	<0.1	<0.05	8	0.6	<0.2
1507246	Soil	4	20	0.98	65	0.112	<20	3.49	0.013	0.06	0.2	0.05	5.6	<0.1	<0.05	11	1.9	0.4
REP 1507246	QC																	
1507277	Soil	16	22	1.04	119	0.109	<20	2.62	0.023	0.09	0.2	0.12	6.1	<0.1	0.23	7	3.3	0.3
REP 1507277	QC	16	21	1.00	112	0.108	<20	2.55	0.022	0.08	0.2	0.15	6.1	<0.1	0.23	6	2.0	0.6
1507279	Soil	13	44	0.90	338	0.061	<20	3.03	0.009	0.11	0.1	0.17	6.4	0.1	<0.05	11	6.3	<0.2
REP 1507279	QC																	
Reference Materials																		
STD DS9	Standard	11	110	0.62	309	0.097	<20	0.88	0.068	0.39	2.6	0.28	2.2	5.3	0.14	4	6.1	4.6
STD DS9	Standard	11	115	0.58	312	0.099	<20	0.82	0.080	0.38	2.9	0.19	2.6	5.3	0.10	4	4.5	5.0
STD DS9	Standard	11	114	0.59	308	0.099	<20	0.84	0.081	0.39	2.5	0.19	2.6	5.4	0.11	4	4.7	5.2



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Project: North\_Rok  
 Report Date: October 31, 2012

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Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000477.1

		3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS9	Standard		11.3	108.3	129.0	318	1.8	38.6	7.3	593	2.35	24.9	111.8	5.7	69	2.4	5.0	6.1	40	0.71	0.083
STD DS9	Standard		12.4	108.2	132.5	325	2.1	41.1	7.4	620	2.57	27.2	263.7	6.2	72	2.4	4.3	6.8	40	0.75	0.090
STD DS9	Standard		12.3	109.0	128.3	306	1.6	40.6	8.0	570	2.33	25.0	99.5	6.2	62	2.3	5.2	5.2	42	0.72	0.082
STD OREAS45EA	Standard		1.3	620.1	12.8	27	0.3	324.3	46.9	340	26.56	9.6	56.5	9.6	3	<0.1	0.3	0.2	264	0.03	0.026
STD OREAS45EA	Standard		1.3	622.1	13.2	28	0.3	348.7	48.2	376	26.07	10.0	50.7	9.0	3	<0.1	0.3	0.2	279	0.04	0.028
STD OREAS45EA	Standard		1.2	615.8	13.1	27	0.3	332.3	48.2	376	25.41	9.5	61.4	9.1	3	<0.1	0.3	0.3	274	0.03	0.028
STD OREAS45EA	Standard		1.3	648.9	13.7	29	0.3	364.0	51.2	398	28.15	9.5	57.0	9.3	3	<0.1	0.2	0.2	289	0.04	0.030
STD OREAS45EA	Standard		1.4	655.8	13.3	29	0.2	356.0	51.7	400	28.38	11.3	50.5	9.2	3	<0.1	0.2	0.2	287	0.04	0.032
STD OREAS45EA	Standard		1.6	680.3	13.3	29	0.2	381.7	53.9	370	28.64	10.1	45.1	9.3	3	<0.1	0.2	0.2	304	0.04	0.027
STD OXA71	Standard	83																			
STD OXA71	Standard	82																			
STD OXA71	Standard	83																			
STD OXA71	Standard	83																			
STD OXA71	Standard	88																			
STD OXA71	Standard	82																			
STD OXA71	Standard	86																			
STD OXA71	Standard	83																			
STD OXA71	Standard	84																			
STD OXA71	Standard	81																			
STD OXA71	Standard	87																			
STD OXA71	Standard	85																			
STD OXA71 Expected		84.9																			
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			





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Project: North\_Rok  
 Report Date: October 31, 2012

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Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000477.1

		3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
BLK	Blank	<2				1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Submitted By: Greg Dawson

Receiving Lab: Canada-Smithers

Received: October 29, 2012

Report Date: November 08, 2012

Page: 1 of 5

CERTIFICATE OF ANALYSIS

SMI12000524.1

CLIENT JOB INFORMATION

Project: North\_Rok
Shipment ID:
P.O. Number
Number of Samples: 108

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Linda Dandy
Allan Jacobs
Jessica Norris
Adam Travis

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include methods like Dry at 60C, SS80, 3B, 1DX and their corresponding test results.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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QUALITY CONTROL REPORT

SMI12000477.1

		1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2







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CERTIFICATE OF ANALYSIS

SMI12000524.1

Method	Analyte	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1507301	Soil	5	26	0.51	102	0.019	<20	0.87	0.016	0.04	<0.1	0.26	2.8	<0.1	0.30	3	3.5	<0.2
1507302	Soil	9	37	0.61	124	0.025	<20	1.31	0.016	0.04	<0.1	0.18	4.7	<0.1	0.17	5	1.8	<0.2
1507303	Soil	11	43	0.71	129	0.022	<20	1.43	0.016	0.06	<0.1	0.14	5.0	<0.1	0.12	5	1.5	<0.2
1507304	Soil	9	39	0.62	116	0.022	<20	1.21	0.015	0.05	<0.1	0.14	5.0	<0.1	0.57	4	2.8	<0.2
1507305	Soil	9	23	0.43	89	0.012	<20	0.84	0.016	0.03	<0.1	0.21	2.3	<0.1	0.33	3	2.2	<0.2
1507306	Soil	10	34	0.47	107	0.020	<20	1.21	0.016	0.03	<0.1	0.25	3.1	<0.1	0.20	4	3.2	<0.2
1507307	Soil	7	35	0.70	77	0.062	<20	1.11	0.014	0.08	<0.1	0.06	4.4	<0.1	<0.05	4	0.8	<0.2
1507308	Soil	46	20	0.36	86	0.013	<20	0.74	0.015	0.04	<0.1	0.67	5.9	0.1	0.49	2	10.5	<0.2
1507309	Soil	25	19	0.41	84	0.022	<20	0.87	0.016	0.03	<0.1	0.39	2.6	<0.1	0.63	3	9.1	<0.2
1507310	Soil	8	15	0.20	58	0.048	<20	0.84	0.011	0.04	0.2	0.03	1.7	<0.1	0.14	6	<0.5	<0.2
1507311	Soil	1	5	0.28	29	0.006	<20	0.28	0.014	0.01	<0.1	0.07	0.4	<0.1	0.38	1	2.2	<0.2
1507312	Soil	<1	3	0.25	87	0.003	<20	0.08	0.013	<0.01	<0.1	0.06	0.5	<0.1	0.40	1	6.4	<0.2
1507313	Soil	7	36	0.95	160	0.109	<20	1.64	0.013	0.12	0.1	0.01	6.0	<0.1	<0.05	6	0.8	<0.2
1507314	Soil	7	24	0.89	135	0.116	<20	2.13	0.020	0.10	0.3	0.02	4.4	<0.1	0.06	10	1.1	<0.2
1507315	Soil	4	26	0.67	115	0.163	<20	1.49	0.010	0.13	0.2	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
1507316	Soil	11	26	0.80	220	0.144	<20	2.22	0.019	0.12	0.3	0.02	4.2	<0.1	<0.05	13	0.5	0.3
1507317	Soil	6	23	0.73	161	0.128	<20	2.03	0.015	0.07	0.2	0.02	4.2	<0.1	<0.05	12	<0.5	0.3
1507318	Soil	3	22	0.89	104	0.129	<20	2.00	0.017	0.08	0.2	0.04	4.5	<0.1	0.09	10	0.8	0.2
1507319	Soil	3	17	0.67	93	0.098	<20	2.55	0.020	0.10	0.2	0.09	4.9	<0.1	0.18	8	3.7	0.3
1507320	Soil	3	15	0.41	116	0.070	<20	2.20	0.017	0.10	0.2	0.11	3.9	<0.1	0.18	7	4.8	<0.2
1507321	Soil	3	15	0.49	100	0.057	<20	2.32	0.019	0.09	0.2	0.11	4.1	<0.1	0.20	7	5.4	0.2
1507322	Soil	4	19	0.66	119	0.107	<20	2.92	0.027	0.12	0.2	0.04	6.3	<0.1	0.23	10	4.9	0.3
1507323	Soil	4	17	0.38	96	0.054	<20	2.20	0.017	0.09	0.1	0.06	3.4	<0.1	0.16	6	4.2	0.2
1507324	Soil	4	16	0.65	111	0.104	<20	3.06	0.024	0.09	0.2	0.05	4.5	<0.1	0.21	9	4.0	<0.2
1507325	Soil	6	18	0.69	163	0.086	<20	3.36	0.048	0.12	0.2	0.11	5.3	<0.1	0.33	9	4.8	0.5
1507326	Soil	3	22	0.75	68	0.098	<20	2.58	0.011	0.08	0.1	0.14	4.2	<0.1	0.10	8	0.8	<0.2
1507327	Soil	3	21	0.92	90	0.067	<20	2.40	0.018	0.05	0.2	0.05	4.4	<0.1	0.07	7	1.5	0.4
1507328	Soil	1	9	0.48	50	0.011	<20	1.98	0.010	0.04	0.1	0.09	1.0	<0.1	0.20	5	1.7	0.3
1507329	Soil	3	13	1.36	45	0.115	<20	2.66	0.020	0.05	0.3	0.08	15.4	<0.1	0.42	11	5.4	0.7
1507330	Soil	4	27	0.97	135	0.069	<20	2.00	0.013	0.06	0.1	0.02	3.7	<0.1	<0.05	7	0.9	0.2

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Project: North\_Rok  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000524.1

Method	Analyte	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		2	0.1	0.1	0.1	1	0.1	0.1	0.1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1507331	Soil	20	2.4	240.5	15.4	49	0.2	11.7	8.4	364	11.88	57.8	21.9	1.0	178	0.1	1.2	0.8	209	0.46	0.298
1507332	Soil	16	3.1	176.7	13.3	61	0.4	14.4	8.3	398	10.19	38.9	11.2	1.1	69	0.1	1.1	0.5	178	0.12	0.248
1507333	Soil	22	9.8	192.7	14.5	53	0.2	11.1	9.4	341	9.03	65.0	17.8	1.4	76	0.1	0.9	0.6	206	0.11	0.205
1507334	Soil	27	8.9	181.1	16.2	54	0.7	10.6	9.4	408	9.41	70.2	19.6	1.2	73	0.2	1.2	0.6	193	0.16	0.268
1507335	Soil	7	5.7	95.8	15.6	60	0.4	11.5	10.0	260	7.35	48.7	7.0	1.0	69	0.3	0.7	0.5	122	0.19	0.363
1507336	Soil	6	4.6	71.1	11.1	68	0.5	10.5	6.5	163	5.82	30.3	5.0	0.4	78	0.6	0.5	0.3	72	0.34	0.232
1507337	Soil	<2	2.9	45.4	13.6	80	0.2	23.8	11.2	303	5.46	27.1	4.8	0.8	61	0.4	0.7	0.6	106	0.21	0.144
1507338	Soil	<2	2.0	55.9	13.9	124	0.3	21.9	112.8	1683	4.98	14.5	0.6	0.7	37	1.1	0.5	0.5	127	0.20	0.062
1507339	Soil	<2	1.3	26.5	16.6	95	0.3	13.8	15.3	380	5.74	13.1	4.4	0.5	31	0.8	0.5	0.7	117	0.27	0.066
1507340	Soil	<2	1.5	26.4	14.7	102	0.3	17.9	20.6	480	5.22	13.4	5.9	0.6	43	0.7	0.5	0.6	137	0.26	0.067
1507341	Soil	<2	2.0	139.6	11.6	254	0.4	44.2	320.0	6425	4.01	13.9	1.7	1.8	52	1.6	0.3	0.4	63	0.43	0.583
1507342	Soil	<2	0.8	51.5	5.6	168	0.5	48.4	36.1	1207	2.81	4.5	0.9	0.7	31	3.8	0.4	0.1	52	0.45	0.107
1507343	Soil	<2	1.1	82.0	6.3	56	0.8	48.4	20.4	709	2.38	6.2	2.0	0.3	68	3.0	0.2	0.3	44	1.48	0.084
1507344	Soil	<2	5.5	43.5	2.3	12	0.3	26.0	11.3	3200	1.38	13.0	3.1	<0.1	111	0.6	0.4	<0.1	28	3.36	0.153
1507345	Soil	<2	0.9	28.4	8.0	105	0.3	40.8	10.8	508	3.11	9.7	2.3	0.9	29	0.5	0.4	0.3	52	0.64	0.094
1507346	Soil	<2	1.3	17.6	8.2	143	0.1	44.4	11.3	479	3.27	6.1	1.7	1.0	22	1.6	0.4	0.1	62	0.29	0.098
1507347	Soil	<2	1.1	155.8	4.3	43	1.3	139.9	9.9	498	2.60	6.0	7.0	0.5	111	0.4	0.6	0.1	38	2.84	0.096
1507348	Soil	7	2.2	164.8	6.8	66	1.1	88.8	10.1	604	2.46	5.4	8.0	0.5	100	1.0	0.8	0.2	39	2.45	0.099
1507349	Soil	<2	1.1	11.4	8.9	126	0.1	22.9	10.5	502	3.52	8.4	2.1	0.7	31	0.5	0.4	0.2	67	0.73	0.048
1507350	Soil	I.S.	2.2	20.4	1.0	11	0.1	66.5	4.9	5505	2.11	1.8	2.0	0.1	119	0.6	0.5	<0.1	4	3.22	0.090
1507351	Soil	<2	1.2	31.0	7.9	67	<0.1	73.1	14.4	488	3.19	7.5	2.0	1.1	24	0.3	0.5	0.1	60	0.35	0.063
1507352	Soil	<2	1.5	22.8	7.2	64	0.1	55.8	11.3	489	2.95	7.3	1.8	0.6	30	0.2	0.4	0.1	57	0.51	0.051
1507353	Soil	5	1.0	19.4	6.0	53	<0.1	51.8	10.2	345	2.73	6.1	1.7	1.0	25	<0.1	0.3	0.1	53	0.44	0.061
1507354	Soil	3	1.2	30.0	6.4	68	0.2	69.8	12.6	378	2.82	6.5	1.0	1.1	57	0.2	0.4	0.1	52	1.19	0.063
1507355	Soil	<2	1.4	50.0	7.4	91	0.3	100.3	13.5	401	3.86	7.7	2.7	0.9	39	0.2	0.5	0.2	70	0.62	0.070
1507356	Soil	<2	1.4	49.0	7.9	78	0.5	79.5	18.7	824	3.70	7.9	1.5	0.6	51	0.3	0.4	0.2	64	0.70	0.093
1507357	Soil	<2	1.1	26.2	7.0	54	0.1	64.8	12.0	376	3.16	7.6	1.8	0.9	16	0.1	0.4	0.1	61	0.16	0.050
1507358	Soil	<2	1.5	16.1	9.6	138	0.5	44.8	12.7	405	3.82	7.7	0.9	1.6	19	0.3	0.3	0.3	62	0.19	0.074
1507359	Soil	<2	1.5	13.8	11.7	106	0.5	29.8	12.4	712	3.61	6.8	1.3	0.9	32	0.8	0.4	0.2	61	0.48	0.132
1507360	Soil	<2	2.3	23.1	10.7	101	0.5	66.4	18.9	925	4.54	10.5	2.2	1.9	16	0.4	0.5	1.1	65	0.18	0.243

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Project: North\_Rok  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000524.1

Method Analyte	Unit	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL	MDL	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
1507331	Soil	4	15	0.98	100	0.142	<20	3.49	0.029	0.11	0.2	0.08	14.9	<0.1	0.36	10	7.0	0.5
1507332	Soil	5	19	0.87	111	0.138	<20	3.41	0.022	0.08	0.2	0.04	12.0	<0.1	0.15	10	8.7	0.2
1507333	Soil	6	13	1.05	89	0.168	<20	3.03	0.031	0.12	<0.1	0.03	12.6	<0.1	0.26	10	11.6	0.2
1507334	Soil	6	13	1.05	107	0.147	<20	3.22	0.031	0.16	0.1	0.06	11.1	<0.1	0.27	9	11.7	0.3
1507335	Soil	5	18	0.38	97	0.176	<20	2.02	0.025	0.09	0.3	0.06	3.5	<0.1	0.15	10	5.8	0.4
1507336	Soil	3	17	0.14	163	0.129	<20	1.15	0.022	0.08	0.3	0.08	2.1	<0.1	0.19	7	4.4	0.3
1507337	Soil	7	29	0.80	143	0.120	<20	1.98	0.017	0.09	0.3	0.04	4.5	<0.1	0.07	11	<0.5	0.3
1507338	Soil	4	30	0.82	128	0.175	<20	2.09	0.012	0.06	0.2	0.02	4.4	0.1	<0.05	11	1.4	<0.2
1507339	Soil	3	24	0.56	79	0.202	<20	1.32	0.011	0.11	0.3	0.04	3.4	<0.1	<0.05	10	0.8	0.3
1507340	Soil	4	25	0.81	132	0.186	<20	1.65	0.013	0.05	0.2	0.02	4.3	<0.1	<0.05	10	0.5	<0.2
1507341	Soil	10	24	0.53	318	0.102	<20	4.99	0.015	0.08	0.2	0.04	5.2	0.2	<0.05	9	1.2	<0.2
1507342	Soil	4	51	0.74	218	0.063	<20	1.51	0.007	0.15	<0.1	0.01	5.3	<0.1	<0.05	5	0.6	<0.2
1507343	Soil	6	27	0.54	118	0.065	<20	1.30	0.018	0.05	0.1	0.03	3.9	<0.1	0.07	5	2.5	<0.2
1507344	Soil	5	13	0.31	80	0.019	<20	0.43	0.017	0.02	<0.1	0.13	1.0	<0.1	0.54	3	4.4	<0.2
1507345	Soil	11	34	0.71	83	0.093	<20	1.45	0.014	0.08	0.2	0.02	3.4	<0.1	0.05	8	<0.5	<0.2
1507346	Soil	5	47	0.67	161	0.056	<20	1.49	0.009	0.12	<0.1	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
1507347	Soil	14	41	0.70	207	0.015	<20	1.74	0.017	0.10	<0.1	0.45	6.0	0.1	0.32	5	4.0	<0.2
1507348	Soil	37	49	0.65	272	0.040	<20	1.52	0.022	0.06	0.1	0.64	5.3	0.1	0.26	8	3.9	<0.2
1507349	Soil	6	32	0.57	68	0.092	<20	1.27	0.008	0.12	0.2	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
1507350	Soil	2	8	0.27	401	0.008	<20	0.34	0.014	0.02	<0.1	0.10	1.3	<0.1	0.81	2	1.5	<0.2
1507351	Soil	7	60	0.95	108	0.038	<20	1.59	0.012	0.10	<0.1	0.06	4.9	<0.1	<0.05	5	<0.5	<0.2
1507352	Soil	6	49	0.91	96	0.050	<20	1.36	0.011	0.08	<0.1	0.02	3.5	<0.1	<0.05	5	1.1	<0.2
1507353	Soil	6	46	0.92	88	0.065	<20	1.27	0.012	0.07	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
1507354	Soil	12	50	0.91	175	0.046	<20	1.52	0.012	0.08	<0.1	0.06	5.0	<0.1	0.10	6	<0.5	<0.2
1507355	Soil	13	73	1.05	238	0.031	<20	2.29	0.011	0.14	<0.1	0.11	7.4	<0.1	<0.05	8	1.1	<0.2
1507356	Soil	14	61	1.03	269	0.037	<20	2.17	0.011	0.13	0.1	0.07	5.6	<0.1	0.05	8	1.3	<0.2
1507357	Soil	5	54	0.94	109	0.045	<20	1.56	0.011	0.08	<0.1	0.04	4.0	<0.1	<0.05	5	<0.5	<0.2
1507358	Soil	8	40	0.67	162	0.076	<20	1.87	0.012	0.08	0.1	0.02	3.4	<0.1	<0.05	10	<0.5	<0.2
1507359	Soil	8	32	0.52	220	0.125	<20	1.31	0.010	0.12	0.2	0.05	2.4	<0.1	<0.05	9	<0.5	<0.2
1507360	Soil	10	51	0.87	214	0.101	<20	2.08	0.011	0.11	0.2	0.04	4.6	<0.1	<0.05	10	<0.5	<0.2

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Method	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1507361	Soil	<2	1.2	14.1	9.5	109	0.5	38.2	12.2	650	3.75	6.6	2.0	1.1	31	0.8	0.4	0.2	63	0.52	0.055
1507362	Soil	<2	1.1	19.5	7.4	59	<0.1	58.3	12.0	452	3.17	6.8	3.1	0.8	12	0.1	0.4	0.1	60	0.11	0.034
1507363	Soil	19	2.3	32.9	9.6	77	0.3	38.1	12.9	540	4.07	8.1	2.5	1.4	23	0.4	0.4	0.2	71	0.33	0.047
1507364	Soil	<2	2.1	19.5	12.0	80	0.4	41.1	14.2	618	4.24	10.9	1.1	1.3	23	0.5	0.4	0.3	59	0.28	0.057
1507365	Soil	<2	2.7	22.6	12.7	106	0.3	35.7	12.1	512	4.57	11.9	*	3.4	9	0.4	0.3	0.3	51	0.11	0.068
1507366	Soil	I.S.	47.0	61.0	1.6	10	0.2	60.7	30.4	>10000	1.09	2.1	2.9	<0.1	122	3.1	0.7	<0.1	10	3.14	0.096
1507367	Soil	<2	5.2	116.2	9.4	43	0.8	45.1	16.3	1822	2.16	3.0	1.0	1.1	82	1.3	0.3	0.2	22	1.77	0.059
1507368	Soil	6	3.3	261.9	1.7	6	1.2	50.7	5.4	475	0.92	1.8	6.2	0.1	159	0.9	1.3	<0.1	11	3.98	0.139
1507369	Soil	<2	1.7	40.7	9.2	86	0.3	38.0	12.4	549	3.15	7.0	2.3	0.8	21	0.7	0.4	0.2	59	0.42	0.048
1507370	Soil	47	1.0	17.4	7.4	73	0.2	35.6	11.1	410	3.11	6.7	0.9	0.2	15	0.5	0.5	0.1	66	0.18	0.061
1507371	Soil	4	2.0	61.2	9.4	79	0.6	62.6	16.1	724	3.65	8.4	3.5	1.0	44	1.1	0.4	0.2	65	0.65	0.070
1507372	Soil	<2	1.5	11.6	10.4	105	0.2	30.6	16.1	1008	3.99	7.4	2.3	2.2	12	0.4	0.3	0.3	60	0.17	0.075
1507373	Soil	9	1.6	41.2	8.6	87	0.5	42.4	10.1	706	3.04	6.4	<0.5	0.9	28	0.8	0.3	0.2	48	0.63	0.051
1507374	Soil	<2	0.9	15.8	6.3	57	0.2	38.4	9.3	397	2.62	5.4	2.9	0.8	23	<0.1	0.3	0.1	52	0.44	0.052
1507375	Soil	<2	0.9	15.6	5.8	55	0.1	47.5	8.8	249	2.62	6.1	<0.5	0.6	22	0.2	0.3	0.2	49	0.41	0.055
1507376	Soil	5	1.1	35.7	6.5	54	0.5	68.3	12.5	463	3.29	7.5	2.6	0.4	66	0.3	0.3	0.2	55	1.19	0.096
1507377	Soil	<2	1.1	15.1	6.6	68	<0.1	52.0	10.9	354	3.16	6.4	3.0	0.6	10	0.3	0.3	0.2	60	0.11	0.037
1507378	Soil	2	1.2	32.2	6.8	59	<0.1	73.4	13.8	489	3.08	7.1	1.6	1.3	19	0.1	0.5	0.1	56	0.27	0.066
1507379	Soil	<2	0.7	10.7	5.6	53	<0.1	42.2	10.4	278	2.64	5.2	<0.5	0.5	17	0.2	0.2	0.2	55	0.28	0.026
1507401	Soil	I.S.	1.0	19.6	1.1	10	0.1	47.5	22.3	7631	2.00	1.3	<0.5	<0.1	143	0.3	0.4	0.1	4	3.66	0.076
1507402	Soil	6	1.0	56.4	6.5	57	0.8	74.1	14.0	1166	3.82	11.1	4.7	0.9	67	0.2	0.4	0.2	50	1.53	0.078
1507403	Soil	3	0.5	95.7	4.0	21	0.8	89.5	6.7	435	1.27	2.0	1.3	0.2	120	0.3	0.5	0.1	15	3.25	0.074
1507404	Soil	4	0.4	61.6	1.7	8	0.5	114.3	3.9	482	0.61	1.0	3.4	0.1	138	0.7	0.6	0.1	6	3.96	0.060
1507405	Soil	<2	1.2	43.9	8.6	129	0.3	72.6	15.6	786	3.82	8.3	<0.5	1.3	38	0.4	0.3	0.2	60	0.86	0.050
1507406	Soil	5	1.5	222.2	6.2	158	0.3	78.0	13.4	1861	3.15	8.4	3.0	0.6	51	2.1	0.4	0.1	47	1.39	0.070
1507407	Soil	<2	1.2	83.0	6.6	112	0.1	53.2	14.9	907	3.68	9.0	3.0	1.0	30	0.5	0.2	0.1	56	0.76	0.057
1507408	Soil	<2	4.0	117.1	5.0	123	0.2	65.2	85.0	6625	10.10	19.8	5.6	0.8	39	1.0	0.4	0.1	72	0.97	0.080
1507409	Soil	3	1.8	570.6	4.2	143	0.4	61.6	32.2	338	1.87	3.3	4.0	0.2	49	1.7	0.3	0.1	39	1.50	0.077
1507410	Soil	<2	1.0	150.1	5.7	149	<0.1	56.2	10.0	1093	3.02	5.8	1.0	1.0	28	0.5	0.4	0.2	49	0.66	0.043
1507411	Soil	<2	0.8	121.9	8.4	119	0.3	60.6	9.4	611	3.20	4.4	1.5	1.3	42	0.7	0.5	0.2	54	1.08	0.059

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



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Project: North\_Rok  
 Report Date: November 08, 2012

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# CERTIFICATE OF ANALYSIS

SMI12000524.1

Method Analyte	Unit	MDL	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX		
			La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
			ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
			1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2
1507361	Soil		7	37	0.57	277	0.080	<20	1.58	0.008	0.13	0.1	0.02	3.0	<0.1	<0.05	9	<0.5	<0.2
1507362	Soil		5	53	0.87	113	0.048	<20	1.61	0.009	0.06	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
1507363	Soil		10	36	0.75	164	0.121	<20	1.65	0.011	0.07	0.1	0.02	3.7	<0.1	<0.05	8	1.2	<0.2
1507364	Soil		9	33	0.54	230	0.095	<20	1.69	0.010	0.07	0.3	0.04	2.8	<0.1	<0.05	12	<0.5	<0.2
1507365	Soil		15	28	0.45	177	0.101	<20	2.41	0.016	0.08	0.4	0.02	3.1	<0.1	<0.05	14	<0.5	<0.2
1507366	Soil		1	7	0.31	428	0.007	<20	0.23	0.012	0.05	<0.1	0.14	0.7	0.3	0.41	3	10.7	<0.2
1507367	Soil		8	26	0.35	261	0.160	<20	0.96	0.022	0.05	<0.1	0.05	4.9	<0.1	0.13	7	2.5	<0.2
1507368	Soil		24	10	0.32	244	0.009	<20	0.78	0.005	0.02	0.1	0.28	1.3	<0.1	0.45	2	7.7	<0.2
1507369	Soil		11	40	0.55	152	0.074	<20	1.48	0.009	0.08	<0.1	0.05	3.4	<0.1	0.07	7	0.7	<0.2
1507370	Soil		4	41	0.59	105	0.054	<20	1.21	0.008	0.12	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
1507371	Soil		17	37	0.65	143	0.133	<20	1.86	0.013	0.07	0.1	0.06	4.7	<0.1	<0.05	8	1.5	<0.2
1507372	Soil		10	32	0.48	141	0.143	<20	1.66	0.013	0.07	0.2	0.03	2.8	<0.1	<0.05	12	<0.5	<0.2
1507373	Soil		13	29	0.47	121	0.097	<20	1.40	0.009	0.07	0.2	0.04	3.2	<0.1	<0.05	8	0.8	<0.2
1507374	Soil		6	34	0.70	108	0.074	<20	1.25	0.009	0.06	<0.1	0.04	3.0	<0.1	<0.05	6	0.7	<0.2
1507375	Soil		4	40	0.80	105	0.051	<20	1.43	0.008	0.05	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
1507376	Soil		14	54	0.82	259	0.015	21	2.12	0.013	0.09	<0.1	0.13	4.9	<0.1	0.16	7	0.8	<0.2
1507377	Soil		4	51	0.84	86	0.035	22	1.53	0.012	0.06	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
1507378	Soil		7	55	0.98	111	0.044	26	1.43	0.015	0.05	<0.1	0.08	5.1	<0.1	<0.05	5	<0.5	<0.2
1507379	Soil		3	44	0.81	72	0.051	25	1.25	0.013	0.04	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
1507401	Soil		2	6	0.30	235	0.007	37	0.30	0.020	0.02	<0.1	0.12	1.0	<0.1	0.72	2	0.8	<0.2
1507402	Soil		18	40	0.70	173	0.045	<20	1.55	0.020	0.08	<0.1	0.14	8.1	<0.1	0.11	6	1.8	<0.2
1507403	Soil		11	20	0.39	98	0.034	<20	0.80	0.016	0.04	<0.1	0.20	2.7	<0.1	0.37	3	2.0	<0.2
1507404	Soil		3	9	0.30	93	0.019	39	0.40	0.020	0.02	<0.1	0.12	1.2	<0.1	0.54	1	1.7	<0.2
1507405	Soil		12	50	0.90	140	0.047	24	1.89	0.023	0.08	0.1	0.04	4.5	<0.1	0.09	8	1.8	<0.2
1507406	Soil		9	44	0.57	195	0.024	26	1.76	0.021	0.04	<0.1	0.15	6.0	<0.1	0.38	5	13.6	<0.2
1507407	Soil		9	52	0.67	116	0.044	26	1.67	0.021	0.06	<0.1	0.11	6.5	<0.1	0.08	6	3.7	<0.2
1507408	Soil		12	58	0.66	203	0.030	27	1.67	0.023	0.07	<0.1	0.11	7.4	<0.1	0.15	6	15.9	<0.2
1507409	Soil		15	29	0.44	120	0.025	28	1.75	0.024	0.03	<0.1	0.17	3.4	0.1	1.18	3	31.3	<0.2
1507410	Soil		7	50	0.81	89	0.054	29	1.76	0.024	0.07	<0.1	0.02	5.0	<0.1	<0.05	6	1.9	<0.2
1507411	Soil		13	53	0.81	158	0.037	26	1.86	0.022	0.08	<0.1	0.09	5.8	0.1	0.13	8	9.1	<0.2



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Project: North\_Rok  
 Report Date: November 08, 2012

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CERTIFICATE OF ANALYSIS

SMI12000524.1

Method	Analyte	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
		Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1507412	Soil	5	0.7	50.6	8.1	75	0.2	29.1	3.9	175	1.85	4.1	<0.5	0.5	21	0.2	0.2	0.2	37	0.62	0.025
1507413	Soil	2	0.8	94.0	8.1	149	0.5	55.6	9.5	881	2.85	5.0	1.8	1.0	28	0.6	0.3	0.2	53	0.74	0.062
1507414	Soil	<2	6.5	47.9	7.8	78	<0.1	15.0	99.0	3447	3.69	14.5	2.6	0.5	12	0.5	0.5	0.2	83	0.23	0.029
1507415	Soil	14	0.7	1236	6.8	88	0.4	29.3	22.0	297	1.57	<0.5	5.5	0.2	43	1.6	0.2	0.4	35	1.22	0.073
1507416	Soil	4	1.2	392.6	9.1	65	0.2	30.0	5.6	161	2.77	9.8	4.7	0.7	31	0.2	0.3	0.3	65	0.68	0.074
1507417	Soil	<2	1.1	34.3	15.2	180	0.9	13.1	21.0	1321	3.30	6.7	1.9	0.6	23	2.8	0.3	0.4	57	0.39	0.090
1507418	Soil	6	1.8	140.9	12.5	55	0.4	29.7	15.9	321	5.07	21.8	4.7	0.9	38	0.3	0.5	0.7	97	0.18	0.101
1507419	Soil	3	2.7	66.1	12.9	63	0.4	22.7	43.2	849	5.33	18.9	2.4	1.0	60	0.5	0.4	0.6	112	0.49	0.135
1507420	Soil	5	3.0	58.1	11.7	74	0.4	19.9	7.9	290	5.58	19.3	1.8	1.1	55	0.6	0.7	0.5	106	0.26	0.114
1507421	Soil	15	3.8	287.4	13.7	109	0.6	21.3	13.6	373	5.84	32.0	4.3	0.8	83	0.8	0.5	0.6	129	0.26	0.168
1507422	Soil	6	3.0	111.9	20.1	114	0.3	14.9	32.8	658	6.02	26.5	4.2	0.9	80	0.8	0.6	0.6	116	0.32	0.253
1507423	Soil	24	4.8	121.5	21.3	81	0.6	13.0	18.2	617	6.66	28.2	15.4	0.6	47	0.9	0.7	0.6	128	0.18	0.123
1507424	Soil	60	5.9	184.7	19.8	69	1.1	16.0	8.5	368	6.57	34.8	24.3	0.8	64	0.3	1.0	0.5	118	0.13	0.139
1507425	Soil	6	4.0	84.6	39.8	126	0.5	19.5	13.3	391	6.56	28.5	4.3	1.0	33	0.9	1.0	0.6	146	0.13	0.079
1507426	Soil	9	9.9	90.9	49.4	57	1.5	9.8	5.7	150	4.74	33.5	5.7	<0.1	20	0.7	0.8	1.0	88	0.08	0.128
1507427	Soil	10	2.9	171.6	44.8	94	0.5	8.6	13.2	506	5.09	26.9	3.4	0.2	51	0.7	0.9	0.6	123	0.14	0.154
1507428	Soil	23	2.2	329.0	24.4	51	0.6	8.6	8.1	263	6.29	27.7	16.0	0.1	27	0.3	0.9	0.4	132	0.11	0.135
1507429	Soil	26	4.5	409.8	36.2	70	0.7	9.3	11.6	470	7.74	27.9	17.4	0.2	30	0.4	0.9	0.9	127	0.10	0.166



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CERTIFICATE OF ANALYSIS

SMI12000524.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1507412	Soil	6	31	0.40	55	0.056	<20	0.93	0.013	0.08	<0.1	0.01	3.2	<0.1	<0.05	8	1.2	<0.2
1507413	Soil	17	49	0.76	112	0.076	25	1.75	0.025	0.07	<0.1	0.10	8.1	<0.1	0.06	8	2.2	<0.2
1507414	Soil	4	24	0.28	59	0.083	21	0.74	0.013	0.06	<0.1	0.02	2.6	0.2	<0.05	8	8.0	<0.2
1507415	Soil	10	17	0.43	45	0.052	27	1.66	0.029	0.03	0.2	0.10	3.7	<0.1	1.42	4	36.8	<0.2
1507416	Soil	8	39	0.71	84	0.123	26	2.19	0.021	0.05	0.1	0.07	5.4	<0.1	0.12	6	12.1	<0.2
1507417	Soil	4	16	0.21	176	0.147	<20	0.89	0.017	0.13	0.1	0.04	2.3	<0.1	<0.05	8	1.3	<0.2
1507418	Soil	4	31	0.99	116	0.103	26	2.75	0.019	0.07	0.2	0.04	5.5	<0.1	0.06	7	2.3	0.2
1507419	Soil	5	26	0.89	153	0.137	20	2.29	0.019	0.09	0.3	0.04	5.1	<0.1	0.05	9	2.0	0.3
1507420	Soil	8	25	0.83	151	0.128	22	2.16	0.027	0.08	0.4	0.02	4.9	<0.1	0.09	11	1.4	<0.2
1507421	Soil	5	25	1.04	243	0.115	21	2.39	0.027	0.15	0.3	0.02	5.8	<0.1	0.21	10	2.1	<0.2
1507422	Soil	6	18	0.74	198	0.138	21	2.00	0.024	0.08	0.2	0.04	5.1	<0.1	0.12	13	2.1	0.2
1507423	Soil	5	19	0.49	122	0.162	<20	2.11	0.021	0.08	0.3	0.05	4.4	<0.1	0.14	13	5.0	0.2
1507424	Soil	5	19	0.73	131	0.113	25	3.84	0.022	0.08	0.4	0.09	5.5	<0.1	0.13	10	6.6	<0.2
1507425	Soil	4	28	0.74	92	0.162	22	2.86	0.017	0.03	0.3	0.04	4.7	<0.1	<0.05	13	1.1	0.2
1507426	Soil	4	13	0.24	79	0.049	24	2.22	0.016	0.03	0.2	0.12	1.8	<0.1	0.06	8	2.2	0.5
1507427	Soil	3	13	0.45	96	0.080	23	2.16	0.021	0.03	0.3	0.11	3.8	<0.1	0.08	8	1.6	0.3
1507428	Soil	3	11	0.47	49	0.046	25	2.07	0.015	0.03	0.2	0.10	4.1	<0.1	0.15	7	4.8	0.5
1507429	Soil	4	16	0.45	62	0.057	20	3.29	0.014	0.03	0.2	0.11	4.5	<0.1	0.13	9	5.1	0.4



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# QUALITY CONTROL REPORT

SMI12000524.1

Method	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1507316	Soil	2	2.3	38.9	12.4	86	0.2	40.4	20.1	1455	4.74	20.9	0.7	2.1	37	0.3	0.5	0.6	76	0.25	0.103
REP 1507316	QC	<2																			
1507330	Soil	<2	0.9	40.2	10.3	57	0.2	29.4	14.7	451	3.65	28.7	2.2	0.2	63	0.2	0.6	0.5	92	0.60	0.074
REP 1507330	QC		1.2	40.2	10.5	58	0.2	29.8	14.4	447	3.68	29.9	<0.5	0.2	63	0.1	0.5	0.5	93	0.62	0.078
1507353	Soil	5	1.0	19.4	6.0	53	<0.1	51.8	10.2	345	2.73	6.1	1.7	1.0	25	<0.1	0.3	0.1	53	0.44	0.061
REP 1507353	QC	<2																			
1507366	Soil	I.S.	47.0	61.0	1.6	10	0.2	60.7	30.4	>10000	1.09	2.1	2.9	<0.1	122	3.1	0.7	<0.1	10	3.14	0.096
REP 1507366	QC		48.1	61.5	1.6	11	0.2	61.0	30.7	>10000	1.15	2.4	0.6	<0.1	122	3.0	0.7	<0.1	12	3.21	0.100
1507409	Soil	3	1.8	570.6	4.2	143	0.4	61.6	32.2	338	1.87	3.3	4.0	0.2	49	1.7	0.3	0.1	39	1.50	0.077
REP 1507409	QC	2																			
1507423	Soil	24	4.8	121.5	21.3	81	0.6	13.0	18.2	617	6.66	28.2	15.4	0.6	47	0.9	0.7	0.6	128	0.18	0.123
REP 1507423	QC		4.6	119.6	21.5	82	0.9	12.1	17.9	599	6.33	27.0	142.0	0.5	45	0.7	0.9	0.6	127	0.19	0.124
Reference Materials																					
STD DS9	Standard		11.1	103.0	124.2	294	1.8	38.2	7.3	554	2.25	24.8	119.4	5.5	64	2.1	4.8	6.4	38	0.63	0.075
STD DS9	Standard		10.9	103.1	124.0	298	1.8	40.5	7.0	542	2.18	23.1	81.9	5.8	64	2.2	4.7	6.0	38	0.64	0.077
STD DS9	Standard		12.1	103.1	120.3	283	1.8	39.2	7.3	541	2.19	23.8	114.4	6.0	67	2.3	5.0	6.1	39	0.62	0.073
STD OREAS45EA	Standard		1.3	640.8	13.1	27	0.3	347.0	47.6	396	23.68	9.2	48.7	9.6	3	<0.1	0.2	0.2	285	0.05	0.027
STD OREAS45EA	Standard		1.3	599.8	12.8	27	0.3	328.2	45.0	366	21.92	9.1	57.8	9.1	2	<0.1	0.3	0.2	264	0.05	0.025
STD OREAS45EA	Standard		1.5	647.7	13.5	29	0.2	352.3	49.5	401	24.14	10.4	56.8	9.9	3	<0.1	0.2	0.2	292	0.05	0.030
STD OXA71	Standard	73																			
STD OXA71	Standard	75																			
STD OXA71	Standard	76																			
STD OXA71	Standard	79																			
STD OXA71	Standard	76																			
STD OXA71	Standard	78																			
STD OXA71	Standard	84																			
STD OXA71	Standard	82																			
STD OREAS45EA Expected		1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	0.029	





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Project: North\_Rok  
 Report Date: November 08, 2012

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QUALITY CONTROL REPORT

SMI12000524.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1507316	Soil	11	26	0.80	220	0.144	<20	2.22	0.019	0.12	0.3	0.02	4.2	<0.1	<0.05	13	0.5	0.3
REP 1507316	QC																	
1507330	Soil	4	27	0.97	135	0.069	<20	2.00	0.013	0.06	0.1	0.02	3.7	<0.1	<0.05	7	0.9	0.2
REP 1507330	QC	4	28	1.00	133	0.071	<20	2.12	0.014	0.07	0.2	0.05	3.7	<0.1	0.06	7	<0.5	0.2
1507353	Soil	6	46	0.92	88	0.065	<20	1.27	0.012	0.07	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
REP 1507353	QC																	
1507366	Soil	1	7	0.31	428	0.007	<20	0.23	0.012	0.05	<0.1	0.14	0.7	0.3	0.41	3	10.7	<0.2
REP 1507366	QC	1	7	0.31	450	0.008	<20	0.25	0.012	0.05	<0.1	0.16	0.7	0.3	0.46	3	10.7	<0.2
1507409	Soil	15	29	0.44	120	0.025	28	1.75	0.024	0.03	<0.1	0.17	3.4	0.1	1.18	3	31.3	<0.2
REP 1507409	QC																	
1507423	Soil	5	19	0.49	122	0.162	<20	2.11	0.021	0.08	0.3	0.05	4.4	<0.1	0.14	13	5.0	0.2
REP 1507423	QC	5	18	0.48	122	0.167	24	2.08	0.022	0.08	0.3	0.04	4.1	<0.1	0.13	12	3.9	<0.2
Reference Materials																		
STD DS9	Standard	10	113	0.66	295	0.097	36	0.83	0.078	0.37	2.9	0.21	2.2	5.1	0.19	4	5.6	5.7
STD DS9	Standard	11	110	0.62	297	0.099	<20	0.83	0.069	0.35	2.5	0.19	2.1	5.0	0.15	4	7.0	5.2
STD DS9	Standard	11	113	0.66	296	0.102	<20	0.83	0.072	0.35	2.9	0.17	2.2	4.9	0.15	4	5.2	4.6
STD OREAS45EA	Standard	6	765	0.10	135	0.086	29	2.72	0.026	0.05	<0.1	<0.01	73.6	<0.1	<0.05	12	0.6	<0.2
STD OREAS45EA	Standard	6	716	0.09	133	0.080	<20	2.54	0.019	0.05	<0.1	<0.01	67.6	<0.1	<0.05	11	<0.5	<0.2
STD OREAS45EA	Standard	6	795	0.11	138	0.088	<20	2.85	0.022	0.05	<0.1	<0.01	76.8	<0.1	0.07	12	0.9	<0.2
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OXA71	Standard																	
STD OREAS45EA Expected		8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11

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



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Project: North\_Rok

Report Date: November 08, 2012

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Part: 1 of 1

# QUALITY CONTROL REPORT

SMI12000524.1

	3B Au ppb	1DX Mo ppm	1DX Cu ppm	1DX Pb ppm	1DX Zn ppm	1DX Ag ppm	1DX Ni ppm	1DX Co ppm	1DX Mn ppm	1DX Fe %	1DX As ppm	1DX Au ppb	1DX Th ppm	1DX Sr ppm	1DX Cd ppm	1DX Sb ppm	1DX Bi ppm	1DX V ppm	1DX Ca %	1DX P %
STD DS9 Expected	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD OXA71 Expected	84.9																			
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	7																		
BLK	Blank	<2																		
BLK	Blank	<2																		



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**Project:** North\_Rok  
**Report Date:** November 08, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000524.1

	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Sc ppm	1DX Ti ppm	1DX S %	1DX Ga ppm	1DX Se ppm	1DX Te ppm	
STD DS9 Expected	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02	
STD OXA71 Expected																		
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	
BLK	Blank																	

## **Appendix 4**

### Rock Sample Locations and Descriptions

Appendix 4 - Rock Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description
1554201	443999	6408611	JO	QD blurred matrix, 2% pyrite, SI 13.1
1554202	444012	6408579	JO	possible very fine grained siliceous sediment, black tourmaline ? Veinlets,
1554203	444055	6408543	JO	weak secondary KF alteration, plus or minus magnetite, QD protolith, 2% disseminated mag
1554204	444065	6408555	JO	heavy secondary magnetite, SI 65.7; GD to QM protolith, good secondary mtz silica - KF.
1554205	444094	6408554	JO	Heavy secondary magnetite, SI 86.0; GD to QM protolith, good secondary mtz silica - KF.
1554206	444105	6408541	JO	rock alteration decreases, trace py, mag weak to moderate, SI 18.7; GD - QM protolith
1554207	444114	6408525	JO	trace py-cp; heavy secondary mag; SI 116.0; modeate second KF; QD to GD protolith
1554208	444211	6408430	JO	rock alteration decreases, trace py, no cp, GD to QM protolith; SI 9.87
1554209	444425	6408519	JO	weak alteration, lean QP, SI 22.7, QM rubble zone, no KF, sporadic Chl, trace Py
1554101	444068	6408571	JN	Subcrop, Near Mabon showing. K-silicate alteration of feldspars, intrusive rock, moderate clay alteration and veinlets. Abundant magnetite veinlets and clots. ~3-5% pyrite and ~1% chalcopyrite, trace possible bornite.
1554102	444098	6408515	JN	Angular float. K-silicate and chlorite altered intrusive with abundant magnetite veinlets and clots. Minor epidote. 1-2% clots of pyrite/chalcopyrite up to 4mm. Malachite on fractures.
1554103	444134	6408433	JN	Outcrop. Chlorite altered intrusive +/- K-silicate alteration. Moderate magnetite as clots +/- veinlets. Rusty red-orange on fractures. ~5% fine-grained disseminated pyrite and along fractures.
1554104	444142	6408405	JN	Subcrop. Chlorite to sericite altered intrusive. Dark to medium-pale green. Local magnetite veinlets and clots. Moderate to abundant (3-5%) pyrite as 1-2mm clots.
1554105	444140	6408380	JN	Outcrop. Grey-green fresh to weakly chlorite altered intrusive (quartz monzonite?). Fresh, tabular plagioclase feldspar and hornblende (?). Minor to moderate magnetite clots. No sulphides.
1554106	444130	6408356	JN	Outcrop. Strongly chlorite +/- sericite altered intrusive. Medium green. Minor to moderate magnetite as clots +/- veinlets. Trace possible K-silicate alteration. No sulphides.
1554107	444130	6408307	JN	Subcrop-float. Grey green weakly chlorite +/- sericite altered intrusive. Minor magnetite clots +/- veinlets. ~1% pyrite as clots with red-orange oxide rims.
1554108	444137	6408269	JN	Subcrop-float. Grey green chlorite +/- sericite altered intrusive. Minor-moderate magnetite clots. 1-3% fine-grained disseminated pyrite and along fractures.
1554113	444118	6408553	JN	Outcrop to boulder? Grey-green, chlorite +/- sericite altered intrusive. Trace very fine grained disseminated pyrite. Moderate magnetite veinlets and clots. Trace malachite on fracture surfaces.
1554114	444631	6408295	JN	Subangular boulder to float. Dark grey green fresh intrusive (quartz monzonite?). Weak chlorite alteration. Moderate magnetite clots.
1554115	444619	6408250	JN	Float. Grey-green intrusive. Weakly chlorite +/- sericite altered. Moderate magnetite clots. Trace very fine-grained pyrite.
1554116	444584	6408213	JN	Float - downslope from cliff. Grey-green intrusive. Weakly chlorite +/- sericite altered. Minor to moderate magnetite clots. Trace to locally 1% very fine-grained disseminated pyrite and along fractures.
1554117	444569	6408192	JN	Float - downslope from cliff. Grey-green chlorite +/- sericite altered intrusive. 3-5% fine-grained disseminated pyrite. Trace magnetite. Moderate red-purple fe-ox on fractures.
1554118	444365	6408234	JN	Outcrop. Grey-green weakly chlorite altered intrusive. Minor magnetite clots. Trace very fine-grained disseminated pyrite.
1554151	444037	6408545	MR	Grab, outcrop. Hematite, pyrite disseminations and blobs. Diorite-quartz diorite?
1554152	444042	6408545	MR	Grab, outcrop. Lots of pyrite, QSP.
1554153	444056	6408551	MR	
1554154	444038	6408514	MR	Grab, outcrop. Hematite, minor disseminated pyrite.
1554155	444037	6408509	MR	Grab, outcrop. Malachite, disseminated chalcopyrite.

Appendix 4 - Rock Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description
1554156	444026	6408467	MR	Composite of non(?) mineralized fractures, over 15m.
1554157	444042	6408425	MR	Grab outcrop. Small seam of very pyritic QSP.
1554158	444040	6408406	MR	Outcrop disappears here under cover, dug further to the south. Chip over 5m. Fair amount of pyrite. Hematite, manganese.
1554159	444154	6408343	MR	Grab, outcrop. Disseminated pyrite and blebs. Fresher, greener stuff, diorite.
1554160	444151	6408342	MR	Grab subcrop. Quartz, more alteration. Hematite, disseminated pyrite. 2m wide maybe. Screwup quartz feldspar dyke??
1554161	444180	6408299	MR	Hematite, lots of pyrite, altered quartz.
1554162	444186	6408274	MR	Grab subcrop. Quartz, more alteration. Hematite, disseminated pyrite. 2m wide maybe. Screwup quartz feldspar dyke??
1554163	444201	6408216	MR	Grab outcrop. Rusty, quartz feldspar dyke?
1554164	444185	6408274	MR	Grab outcrop. Rusty, quartz feldspar dyke?
1554165	444185	6408274	MR	On Fault. Grab outcrop. Quartz feldspar dyke material. Some disseminated pyrite. (NO COORDINATES, put same as previous sample)
1554172	444134	6408321	MR	Grab, outcrop. Rusty QSP. Greenish, magnetite, minor disseminated pyrite.
1554173	444134	6408284	MR	Grab, outcrop. Greenish QSP, disseminated pyrite.
1554174	444171	6408203	MR	Grab, outcrop. Disseminated pyrite, possible chalcopyrite. Magnetite. QSP. Large outcrop here.
1554175	444172	6408191	MR	Grab, outcrop. Select of more rusty stuff.
1554176	444177	6408173	MR	Grab, outcrop. Very rusty, lots of disseminated pyrite in green stuff.
1554177	444243	6408244	MR	Grab, outcrop. Very hematitic. Crubly, breccia, 2m.
1554178	444395	6408208	MR	Grab, outcrop. Rusty quartz monzonite with disseminated pyrite.
1554179	444392	6408201	MR	Grab, ourctop. More oxidized green staining. Arsenic? Disseminated pyrite, quartz monzonite.
1554181	444021	6408463	MR	Grab outcrop.
1554182	444259	6408291	MR	Grab outcrop.
1723801	444186	6408391	AT	Quartz-pyrite altered diorite
1723802	444211	6408342	AT	Quartz-pyrite altered diorite
1723803	444211	6408294	AT	Rotten. Quartz pyrite altered diorite.
1723804	444211	6408271	AT	Quartz feldspar fine-grained dyke.
1723805	444098	6408498	AT	Quartz-pyrite altered diorite. Trace malachite along gully 20 degrees south of old samples which ran
1723806	444231	6408212	AT	Quartz pyrite altered diorite.
1554251	444070	6408578	GD	site of sample 938430. grn intermediate volcanic or fg intrusive, strong patchy pink kspar alt, mod seritization of matrix, local irregular fg qz vnlt, tr PY and CPY, strongly magnetic
1554252	444076	6408578	GD	angular boulder, strongly qz-ser altered intermediate volcanic, 15 to 20% PY, tr CPY, strongly magnetic
1554254	444113	6408516	GD	site of samples 938429 and 938428, fg intrusive (?), strong kspar, strong magnetite, local PY, tr CPY
1554253	444368	6408444	GD	angular float, fg intrusive or xtal tuff (?), strongly silicified, 15 to 20 % PY on fractures
1554255	444611	6408364	GD	Angular float, quartz - pyrite altered monzonite - diorite (?), stongly magnetic, 5 - 5 % disseminated PY.

Appendix 4 - Rock Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description
1508951	444024	6408274	JN/MP	Float, angular. Intrusive rock. Grey-green. Minor muscovite (sericite). Trace pyrite, minor magnetite, minor chlorite.
1508952	443941	6407870	JN/MP	Float, angular, composite. Grey-green to dark grey. Weakly siliceous, very fine-grained volcanic rock (?) Moderate to abundant (up to 10%) fine-grained disseminated pyrite +/- veinlets. Possibly brecciated. Local chlorite altered intrusive. Moderate orange fe-ox.
1508953	443962	6407843	JN/MP	Outcrop. Stn 260 (JN). Medium grey fine-grained, weakly siliceous volcanic rock (?) Abundant ~5% fine-grained disseminated pyrite. Moderate purple-red +/- orange fe-ox on fractures.
1508954	443319	6409099	JN/MP	Float, subangular, in till. Stn 262 (JN). Weakly siliceous grey-beige very fine-grained volcanic rock (?) Abundant (10%) very fine-grained disseminated pyrite. Minor possible quartz veinlets. Moderate purple fe-ox on fractures.
1508955	444735	6407697	JN/MP	Outcrop. Grey-green, weakly chlorite altered (intrusive rock?) Abundant fine-grained disseminated pyrite. Moderate disseminated magnetite. Orange-red fe-ox. Local 1-2mm pyrite-magnetite veinlets.
1508956	444740	6407636	JN/MP	Outcrop. Grey-green, weakly chlorite altered intrusive rock (fine-grained volcanic rock?) Abundant (10%) fine-grained disseminated pyrite. Orange fe-ox on surface.
1508957	444982	6407505	JN/MP	Outcrop. Grey-green, weakly chlorite altered +/- quartz altered intrusive (fine-grained) with abundant (5-10%) fine-grained disseminated pyrite +/- veinlets. Trace local magnetite. Moderate-abundant orange fe-ox.
1508958	444071	6408585	JN/MP	Outcrop to subcrop. Green, chlorite altered intrusive rock/intermediate volcanic rock (?) Minor K-feldspar alteration. Moderate magnetite in veinlets and disseminations. Abundant (15%) very fine-grained disseminated pyrite. Minor (1-2%) very fine-grained disseminated chalcopyrite. Trace bornite in Py-Cpy veinlet.
1508959	444063	6408585	JN/MP	Outcrop to subcrop. K-feldspar altered and chlorite altered intrusive rock. Abundant (10-15%) fine to medium grained disseminated pyrite and 1-2% fine-grained chalcopyrite. Moderate magnetite. Trace possible bornite.
1508960	444036	6408542	JN/MP	Outcrop to subcrop. Near samples 1554151 & 1554152 (MR). Chlorite altered intrusive +/- K-silicate alteration. Moderate (2%) chalcopyrite as disseminations and along veinlets. 4mm wide cockscomb quartz vein with minor chalcopyrite and pyrite.
1508961	444037	6408506	JN/MP	Subcrop to outcrop. Grey-green chlorite altered intrusive rock +/- K-feldspar (pink) alteration. Moderate fine-grained disseminated pyrite and chalcopyrite (1-5%). Orange fe-oxide on surface.
1508962	444178	6408198	JN/MP	Outcrop. Fine to medium grained intrusive rock. Grey. Weakly chlorite +/- K-silicate alteration. Minor sericite. Moderate magnetite. Moderate chalcopyrite and pyrite (1-2%) as 1mm veinlets +/- Mt. Trace possible bornite? (or just magnetite).
1508963	445070	6408796	JN/MP	Subcrop to angular float. Dark green and maroon very fine-grained intermediate volcanic rock (?) Moderate dark purple hematite. Weak to moderately magnetic. Trace very fine-grained disseminated pyrite.
1508964	445087	6408895	JN/MP	Outcrop. Maroon intermediate volcanic rock, fine to medium grained. Weak chlorite alteration. Blocky fracture. No sulphides, no magnetite.
1508901	444227	6408102	LINDA	grab, Float. dark green, silicified, med grained, volc/intr with 5% fg diss py, minor hem on fracts
1508902	444245	6408103	LINDA	Grab, outcrop. Siliceous, green intr w 20% blebby py and tr cpy (or tarnished py)

Appendix 4 - Rock Sample Notes - North ROK 2012

Sample ID	Easting	Northing	Sampler	Description
1508903	444327	6408105	LINDA	Grab, outcrop. weakly siliceous, med grey, intr/volc w 10% fg-mg diss py, mag, tr cpy, minor white qvs
1508904	444414	6408029	LINDA	Grab, outcrop. siliceous, rusty Fe and Mn coated, med green volc/intr w >5% diss and fract coating py, tr cpy or tarnish
1508905	444364	6408000	LINDA	Grab, float. big rusty MnO coated rock from just uphill on cliff, 5% diss py as before
1508906	444287	6407920	LINDA	Grab, float. from cliff just above, siliceous dk green, fg volc/intr w 5% diss py and bornite(?) black with purple tint
1508907	444207	6407915	LINDA	Grab, outcrop. 5-10% diss py in siliceous, fg green volc/intr
1508908	444605	6407301	GENE	Grab, outcrop. rusty volc with pyrite
1508909	444605	6407301	GENE	Grab, outcrop. rusty volc with pyrite



## **Appendix 5**

### Rock Sample Assay Certificates



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Acme Analytical Laboratories (Vancouver) Ltd.

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**Client:** Colorado Resources Ltd.

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West Kelowna BC V4T 2N6 Canada

Submitted By: Greg Dawson

Receiving Lab: Canada-Whitehorse

Received: August 29, 2012

Report Date: December 21, 2012

Page: 1 of 4

## CERTIFICATE OF ANALYSIS

WHI12000790.2

### CLIENT JOB INFORMATION

Project: North\_Rok  
Shipment ID:  
P.O. Number  
Number of Samples: 87

### SAMPLE DISPOSAL

RTRN-PLP Return  
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Colorado Resources Ltd.  
110 - 2300 Carrington Road  
West Kelowna BC V4T 2N6  
Canada

CC: Linda Dandy  
Jessica Norris  
Allen Jacobs

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-500	87	Crush, split and pulverize 500 g rock to 200 mesh			VAN
3B	87	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	87	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
7AR	1	1:1:1 Aqua Regia digestion ICP-ES analysis	0.4	Completed	VAN

### ADDITIONAL COMMENTS

Version 2 : 7AR-Cu included



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**Project:** North\_Rok  
**Report Date:** December 21, 2012

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**Part:** 1 of 1

# CERTIFICATE OF ANALYSIS

# WHI12000790.2

Method Analyte Unit MDL	WGHT Wgt kg 0.01	3B Au ppb 2	1DX Mo ppm 0.1	1DX Cu ppm 0.1	1DX Pb ppm 0.1	1DX Zn ppm 1	1DX Ag ppm 0.1	1DX Ni ppm 0.1	1DX Co ppm 0.1	1DX Mn ppm 1	1DX Fe % 0.01	1DX As ppm 0.5	1DX Au ppb 0.5	1DX Th ppm 0.1	1DX Sr ppm 1	1DX Cd ppm 0.1	1DX Sb ppm 0.1	1DX Bi ppm 0.1	1DX V ppm 2	1DX Ca % 0.01	
1554067	Rock	1.72	3	0.8	64.5	7.7	39	<0.1	21.9	15.6	1759	3.76	5.3	2.0	1.1	726	0.3	1.1	<0.1	100	13.73
1554069	Rock	2.06	9	0.5	137.3	4.6	20	0.1	24.0	13.8	3796	5.32	10.0	5.3	0.5	219	<0.1	1.2	<0.1	58	11.52
1554070	Rock	1.65	10	1.8	78.6	5.2	38	0.3	19.0	7.9	3175	4.49	13.6	5.1	1.0	729	<0.1	2.7	<0.1	35	14.67
1554072	Rock	1.47	28	1.8	569.6	4.0	11	0.5	17.0	8.2	3521	4.33	19.8	14.9	0.7	190	<0.1	1.9	<0.1	22	9.28
1554073	Rock	1.26	3	0.3	79.4	4.7	19	0.2	63.8	24.0	3876	5.27	23.4	0.6	1.1	288	<0.1	0.6	<0.1	85	13.69
1554101	Rock	1.31	1583	7.7	1697	17.8	39	6.6	2.1	5.0	274	7.32	9.7	1434	0.4	21	<0.1	0.4	0.1	94	0.25
1554102	Rock	1.40	287	5.4	1334	5.5	39	0.5	2.2	5.5	338	5.98	25.2	258.0	0.8	14	<0.1	0.6	<0.1	67	0.46
1554103	Rock	1.16	53	17.6	323.7	10.5	87	1.0	1.8	8.3	504	6.14	42.7	50.8	1.0	22	0.2	0.4	0.4	160	0.49
1554104	Rock	1.52	12	3.4	196.2	21.8	86	0.2	2.9	11.7	569	3.94	24.8	12.4	0.6	23	0.3	0.3	0.2	128	0.63
1554105	Rock	0.78	37	11.5	262.7	6.6	50	0.2	1.7	3.1	297	3.30	11.2	46.8	0.7	41	0.2	0.4	<0.1	109	0.75
1554106	Rock	1.68	5	1.9	68.8	6.9	110	<0.1	2.3	5.2	472	2.67	13.8	2.3	0.7	20	0.3	0.4	<0.1	79	0.58
1554107	Rock	1.64	55	6.2	72.2	8.1	50	0.2	2.2	4.1	327	5.39	24.3	106.1	0.5	29	0.2	0.8	0.2	102	0.72
1554108	Rock	1.73	3	2.9	46.0	6.5	72	<0.1	2.0	5.3	435	2.96	21.1	2.3	0.7	28	0.5	0.6	<0.1	69	0.61
1554109	Rock	1.49	<2	0.4	1.2	14.3	13	<0.1	0.8	0.2	227	0.73	<0.5	<0.5	11.0	9	<0.1	0.2	<0.1	<2	0.48
1554110	Rock	1.67	7	0.2	77.5	1.3	61	<0.1	113.1	34.6	767	4.93	2.2	<0.5	0.3	173	<0.1	<0.1	<0.1	69	4.11
1554111	Rock	1.32	<2	14.0	26.5	4.8	<1	0.1	1.3	4.8	30	1.28	5.3	1.0	0.1	49	<0.1	0.9	<0.1	5	0.04
1554112	Rock	1.06	<2	0.2	134.3	4.5	93	<0.1	33.9	41.8	1756	7.91	3.6	<0.5	0.8	83	0.1	0.2	<0.1	306	4.30
1554152	Rock	2.02	4412	8.7	>10000	548.0	214	14.0	6.8	5.3	1262	9.66	19.7	6617	0.6	23	0.8	0.4	2.1	57	0.37
1554153	Rock	1.00	334	15.7	1536	6.0	33	1.2	1.8	10.6	182	4.62	9.0	320.0	0.8	12	<0.1	0.5	0.3	86	0.22
1554154	Rock	0.98	1010	12.5	849.5	13.5	53	2.6	1.4	5.8	303	5.02	12.9	755.7	0.8	16	<0.1	0.5	0.2	99	0.36
1554155	Rock	1.19	115	8.8	1541	4.4	108	0.5	1.7	6.1	640	4.46	16.2	69.4	0.7	22	0.2	0.7	<0.1	101	0.75
1554156	Rock	1.52	55	14.0	247.3	24.4	80	0.7	2.3	8.9	513	4.85	64.3	57.7	0.6	33	0.7	0.5	0.4	89	0.73
1554157	Rock	1.20	229	24.5	2442	59.3	24	2.2	2.9	35.9	135	4.71	13.2	240.6	0.6	16	0.4	1.3	0.6	75	1.62
1554158	Rock	1.88	111	26.9	469.6	12.6	72	0.7	3.3	11.2	443	4.83	19.3	95.9	0.7	32	0.2	0.5	0.5	102	0.76
1554159	Rock	1.34	42	3.3	86.2	33.9	101	0.3	2.8	16.2	579	4.52	56.2	67.3	0.5	19	0.4	0.7	0.7	77	0.57
1554160	Rock	2.52	41	14.4	80.6	14.2	42	0.2	1.0	2.6	143	3.15	31.9	44.8	0.7	34	0.2	0.6	0.7	59	0.31
1554161	Rock	1.85	79	15.7	104.0	9.7	48	0.3	1.7	5.9	215	4.69	44.4	84.9	0.7	41	0.1	1.3	1.0	92	0.47
1554162	Rock	1.10	16	20.3	77.0	41.1	100	0.4	0.8	1.2	289	2.70	25.7	16.4	0.9	24	0.2	0.8	0.7	60	0.48
1554163	Rock	1.55	88	11.3	120.1	4.1	23	0.3	1.9	1.1	157	2.40	10.6	86.0	11.4	25	<0.1	0.4	0.3	37	0.24
1554164	Rock	1.36	169	5.5	488.1	24.9	60	0.9	1.3	7.0	346	4.74	33.9	165.7	0.5	100	<0.1	2.2	0.9	115	0.65

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Project: North\_Rok
Report Date: December 21, 2012

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CERTIFICATE OF ANALYSIS

WHI12000790.2

Table with columns: Method Analyte Unit MDL, WGHT, 3B, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX, 1DX. Rows contain numerical data for various analytes and units.

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**Page:** 3 of 4

**Part:** 2 of 1

# CERTIFICATE OF ANALYSIS

# WHI12000790.2

Method Analyte Unit MDL	1DX P % 0.001	1DX La ppm 1	1DX Cr ppm 1	1DX Mg % 0.01	1DX Ba ppm 1	1DX Ti % 0.001	1DX B ppm 20	1DX Al % 0.01	1DX Na % 0.001	1DX K % 0.01	1DX W ppm 0.1	1DX Hg ppm 0.01	1DX Tl ppm 0.1	1DX S % 0.05	1DX Sc ppm 0.1	1DX Se ppm 0.5	1DX Ga ppm 1	1DX Te ppm 0.2	7AR Cu % 0.001	
1554165	Rock	0.108	2	4	0.10	219	0.103	<20	0.11	0.105	0.49	<0.1	0.26	0.2	1.35	0.5	7.9	2	0.3	N.A.
1554166	Rock	0.072	3	2	0.02	15	0.002	<20	0.31	0.006	0.25	0.1	0.19	<0.1	5.34	0.7	7.6	<1	2.5	N.A.
1554167	Rock	0.028	3	12	0.03	56	<0.001	<20	0.17	0.004	0.11	<0.1	0.03	<0.1	1.20	0.8	1.6	<1	1.3	N.A.
1554168	Rock	0.005	5	4	0.08	54	<0.001	<20	0.22	0.011	0.08	<0.1	<0.01	<0.1	<0.05	0.3	<0.5	<1	<0.2	N.A.
1554169	Rock	0.082	9	3	2.72	43	0.002	<20	3.23	<0.001	0.08	<0.1	<0.01	<0.1	<0.05	10.3	<0.5	7	<0.2	N.A.
1554171	Rock	0.087	9	104	2.97	103	0.001	<20	1.81	0.021	0.06	<0.1	0.25	<0.1	<0.05	8.6	0.6	8	<0.2	N.A.
1554221	Rock	0.006	26	2	0.04	91	<0.001	<20	0.38	0.022	0.30	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<0.2	N.A.
1554222	Rock	0.156	15	12	0.73	104	0.367	<20	2.77	0.216	0.09	0.2	0.13	<0.1	0.24	12.5	<0.5	10	<0.2	N.A.
1554223	Rock	0.126	13	10	0.84	259	0.435	<20	2.90	0.223	0.10	0.3	0.11	<0.1	0.31	12.1	<0.5	10	<0.2	N.A.
1554224	Rock	0.125	9	8	1.46	163	0.138	<20	1.78	0.108	0.14	<0.1	<0.01	<0.1	<0.05	7.2	<0.5	5	<0.2	N.A.
1554225	Rock	0.292	24	<1	0.36	63	0.181	<20	0.94	0.051	0.20	0.1	<0.01	<0.1	<0.05	10.0	<0.5	5	<0.2	N.A.
1554226	Rock	0.241	21	<1	0.43	79	0.163	<20	0.82	0.033	0.19	<0.1	0.02	<0.1	<0.05	7.5	<0.5	4	<0.2	N.A.
1554227	Rock	0.026	32	3	0.18	90	0.015	<20	0.59	0.027	0.22	<0.1	<0.01	<0.1	<0.05	1.0	<0.5	3	<0.2	N.A.
1554228	Rock	0.119	9	124	3.17	131	0.189	<20	4.49	0.397	0.06	<0.1	<0.01	<0.1	<0.05	14.6	<0.5	11	<0.2	N.A.
1554229	Rock	0.005	24	3	0.02	90	0.005	<20	0.26	0.043	0.17	0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<0.2	N.A.
1554230	Rock	0.007	27	2	0.03	50	0.012	<20	0.28	0.047	0.15	0.2	<0.01	<0.1	<0.05	0.7	<0.5	<1	<0.2	N.A.
1554231	Rock	0.132	8	3	0.29	231	0.001	<20	1.15	0.008	0.18	<0.1	0.09	<0.1	<0.05	16.5	<0.5	2	<0.2	N.A.
1554232	Rock	0.018	3	7	4.84	187	<0.001	<20	0.19	0.009	0.08	<0.1	0.06	<0.1	0.06	3.9	0.8	<1	<0.2	N.A.
1554233	Rock	0.054	7	8	2.25	762	<0.001	<20	0.46	0.006	0.12	<0.1	0.08	<0.1	0.09	5.2	<0.5	1	<0.2	N.A.
1554251	Rock	0.073	<1	5	0.30	27	0.091	<20	0.47	0.034	0.08	0.4	0.02	<0.1	0.11	1.9	4.5	5	0.2	N.A.
1554252	Rock	0.060	<1	3	0.13	49	0.073	<20	0.21	0.037	0.14	0.7	0.04	<0.1	3.84	1.2	17.7	3	0.5	N.A.
1554253	Rock	0.155	2	2	0.52	82	0.128	<20	0.85	0.080	0.17	0.4	0.02	<0.1	2.89	3.1	3.3	4	0.4	N.A.
1554254	Rock	0.108	1	3	0.53	30	0.078	<20	0.50	0.051	0.10	0.3	<0.01	<0.1	0.10	1.7	2.4	4	<0.2	N.A.
1554255	Rock	0.124	2	7	1.78	71	0.185	<20	1.80	0.108	0.07	0.2	<0.01	<0.1	0.37	9.3	1.1	9	<0.2	N.A.
1554256	Rock	0.158	17	36	2.14	328	0.006	<20	1.96	0.039	0.10	<0.1	0.32	<0.1	0.55	13.1	<0.5	8	<0.2	N.A.
1723801	Rock	0.118	2	2	0.82	17	0.108	<20	1.35	0.079	0.07	0.3	<0.01	<0.1	1.46	3.6	6.9	7	<0.2	N.A.
1723802	Rock	0.105	3	3	0.31	96	0.111	<20	0.53	0.079	0.18	0.3	0.02	<0.1	1.23	2.2	2.4	3	<0.2	N.A.
1723803	Rock	0.094	2	3	0.53	62	0.133	26	0.73	0.041	0.10	0.2	0.02	<0.1	0.21	4.1	7.8	5	0.2	N.A.
1723804	Rock	0.013	4	4	0.31	10	0.056	<20	0.52	0.054	0.03	<0.1	<0.01	<0.1	<0.05	1.8	1.2	3	<0.2	N.A.
1723805	Rock	0.122	2	3	0.74	48	0.103	<20	0.91	0.061	0.11	0.4	<0.01	<0.1	1.25	3.2	3.5	5	<0.2	N.A.

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# CERTIFICATE OF ANALYSIS

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Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
1723806	Rock	1.33	116	9.0	1612	4.9	89	0.5	2.1	9.3	577	6.39	16.3	137.7	0.6	22	0.3	0.7	<0.1	96	0.47
1554201	Rock	0.50	31	12.9	281.7	1.4	38	<0.1	3.8	6.2	270	3.02	12.9	38.3	0.7	13	<0.1	0.2	<0.1	111	0.53
1554202	Rock	0.96	26	0.6	251.6	10.4	46	0.2	5.8	20.7	423	4.12	50.8	23.2	0.6	92	0.1	0.9	0.4	112	2.24
1554203	Rock	0.85	172	11.9	165.1	6.4	16	0.9	0.8	2.1	111	3.76	10.7	192.5	0.6	12	<0.1	0.5	0.4	61	0.15
1554204	Rock	0.91	328	11.3	495.2	5.0	37	0.9	2.1	4.1	275	7.09	12.6	391.3	0.9	18	<0.1	0.4	0.1	111	0.44
1554205	Rock	1.19	714	7.5	940.5	3.0	23	1.5	1.0	4.2	190	5.94	20.3	870.8	0.5	9	<0.1	0.4	0.2	88	0.32
1554206	Rock	0.75	15	7.0	300.9	0.7	28	<0.1	2.0	2.1	243	1.82	12.6	14.9	0.7	13	<0.1	0.3	<0.1	44	0.42
1554207	Rock	0.82	465	5.9	1566	3.4	28	1.1	1.4	4.6	211	9.45	26.5	430.0	0.5	22	0.1	0.5	0.3	102	0.39
1554208	Rock	0.68	9	3.3	287.1	2.3	129	<0.1	3.6	12.4	836	4.26	9.6	4.9	0.6	45	0.3	0.3	<0.1	136	0.66
1554209	Rock	0.69	<2	<0.1	2.4	1.5	33	<0.1	2.0	4.7	251	3.22	32.5	<0.5	0.7	77	0.3	0.6	<0.1	83	0.84
1554172	Rock	1.20	61	10.6	185.3	17.8	54	0.5	0.4	3.7	184	3.21	36.6	53.3	0.6	48	0.2	0.9	0.3	51	0.43
1554173	Rock	1.35	33	5.0	86.1	33.6	79	0.2	1.6	6.2	410	2.78	31.4	24.7	0.7	34	0.2	0.8	0.3	63	0.68
1554174	Rock	1.03	467	6.4	566.1	14.1	47	1.1	1.1	4.2	269	3.91	36.0	422.1	0.5	30	<0.1	0.5	0.4	108	0.46
1554175	Rock	1.19	401	4.7	369.6	28.6	43	1.2	1.3	13.5	245	4.22	48.0	333.1	1.0	53	<0.1	0.5	0.7	83	0.46
1554176	Rock	1.16	168	7.4	442.2	18.5	37	0.4	1.2	11.2	211	4.61	44.5	171.1	0.6	32	<0.1	0.4	0.7	115	0.80
1554177	Rock	1.40	9	13.7	117.2	25.9	91	0.2	2.2	4.1	494	3.12	23.4	13.4	0.9	27	0.1	0.4	0.5	75	0.78
1554178	Rock	1.51	10	2.8	8.4	13.5	28	0.2	1.4	7.2	260	1.84	24.4	10.8	0.9	14	<0.1	0.3	1.0	32	0.75
1554179	Rock	1.32	24	2.4	110.9	14.6	51	0.3	2.3	8.3	369	4.63	43.3	21.3	0.8	51	<0.1	0.4	1.9	61	0.53
1554181	Rock	1.14	276	9.7	1563	12.8	47	1.7	1.6	6.5	281	3.59	17.5	395.7	0.6	30	<0.1	0.4	0.2	67	0.62
1554182	Rock	1.27	45	10.8	97.4	22.2	68	0.3	1.6	12.2	300	4.41	100.0	46.2	0.8	36	0.5	0.6	0.7	67	0.50
1554113	Rock	1.17	5	0.1	700.7	1.1	40	<0.1	2.1	3.8	287	2.62	13.3	2.9	0.9	20	0.3	0.3	<0.1	62	0.52
1554114	Rock	1.34	<2	0.4	5.0	1.9	65	<0.1	3.3	6.9	454	5.27	19.8	2.1	0.7	24	0.2	0.3	<0.1	216	0.84
1554115	Rock	1.56	<2	0.4	12.3	13.1	52	<0.1	2.7	8.4	402	4.36	23.6	<0.5	0.6	23	<0.1	0.6	0.1	174	0.71
1554116	Rock	1.41	<2	0.5	56.2	2.4	46	<0.1	4.0	19.7	428	3.77	13.6	<0.5	0.4	51	0.1	0.3	<0.1	122	0.89
1554117	Rock	1.24	18	1.0	18.9	4.5	28	<0.1	3.4	21.8	304	4.84	27.0	4.6	0.6	19	<0.1	0.5	0.2	165	0.88
1554118	Rock	1.33	37	0.6	468.1	2.3	82	0.1	2.2	11.3	529	4.06	15.6	22.9	0.9	55	0.4	0.5	<0.1	125	0.77
1554151	Rock	1.31	3914	58.7	9159	98.0	73	9.3	2.4	5.8	388	6.23	12.5	2347	0.7	14	0.3	0.3	2.3	68	0.28



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West Kelowna BC V4T 2N6 Canada

**Project:** North\_Rok  
**Report Date:** December 21, 2012

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**Part:** 2 of 1

# CERTIFICATE OF ANALYSIS

WHI12000790.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7AR	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
1723806	Rock	0.110	3	3	0.75	43	0.071	<20	0.72	0.054	0.11	0.4	<0.01	<0.1	<0.05	2.2	0.9	4	<0.2	N.A.
1554201	Rock	0.121	3	5	1.72	20	0.165	<20	1.39	0.075	0.08	0.2	<0.01	<0.1	<0.05	3.8	<0.5	7	<0.2	N.A.
1554202	Rock	0.117	3	5	2.16	22	0.160	<20	3.97	0.343	0.08	0.2	<0.01	<0.1	2.51	6.8	7.2	10	0.2	N.A.
1554203	Rock	0.069	2	3	0.49	63	0.176	<20	0.41	0.044	0.21	0.6	0.03	<0.1	0.92	1.9	8.7	6	0.4	N.A.
1554204	Rock	0.152	3	6	0.72	49	0.096	<20	0.80	0.037	0.12	0.3	<0.01	<0.1	0.09	3.6	3.3	7	<0.2	N.A.
1554205	Rock	0.091	<1	3	0.30	34	0.089	<20	0.37	0.035	0.12	0.2	0.02	<0.1	0.17	1.3	2.8	3	0.3	N.A.
1554206	Rock	0.107	<1	5	0.62	22	0.073	<20	0.60	0.067	0.07	0.2	<0.01	<0.1	<0.05	1.9	<0.5	3	<0.2	N.A.
1554207	Rock	0.095	2	5	0.28	24	0.098	<20	0.40	0.037	0.09	0.3	<0.01	<0.1	0.13	1.4	3.4	5	0.4	N.A.
1554208	Rock	0.117	2	3	2.29	38	0.190	<20	2.19	0.052	0.09	0.3	<0.01	<0.1	<0.05	7.5	<0.5	8	<0.2	N.A.
1554209	Rock	0.112	2	3	1.02	47	0.124	<20	1.46	0.179	0.08	0.4	<0.01	<0.1	<0.05	1.2	<0.5	6	<0.2	N.A.
1554172	Rock	0.122	3	1	0.25	45	0.110	<20	0.49	0.066	0.14	0.2	<0.01	<0.1	0.46	2.1	10.5	4	<0.2	N.A.
1554173	Rock	0.138	1	3	0.80	19	0.131	<20	1.13	0.079	0.07	<0.1	<0.01	<0.1	0.27	4.1	1.5	5	<0.2	N.A.
1554174	Rock	0.128	3	4	0.65	41	0.117	<20	0.93	0.046	0.10	0.2	0.01	<0.1	0.13	3.8	5.1	5	0.4	N.A.
1554175	Rock	0.132	3	2	0.65	45	0.115	<20	0.86	0.058	0.12	0.2	<0.01	<0.1	0.83	3.8	9.7	5	0.2	N.A.
1554176	Rock	0.152	2	2	0.91	28	0.154	<20	1.36	0.065	0.10	0.3	0.06	<0.1	1.73	4.6	8.7	7	0.4	N.A.
1554177	Rock	0.110	4	5	0.98	26	0.145	<20	1.64	0.069	0.06	0.2	0.04	<0.1	0.14	3.8	3.7	7	<0.2	N.A.
1554178	Rock	0.124	2	4	0.58	38	0.111	<20	0.86	0.065	0.08	0.2	<0.01	<0.1	0.44	2.1	1.2	4	<0.2	N.A.
1554179	Rock	0.099	2	4	1.17	59	0.100	<20	1.51	0.121	0.14	0.4	0.01	<0.1	1.76	5.3	4.8	6	0.6	N.A.
1554181	Rock	0.128	2	2	0.54	29	0.079	<20	0.78	0.054	0.08	0.3	<0.01	<0.1	0.25	1.5	5.1	5	0.2	N.A.
1554182	Rock	0.121	2	2	0.59	45	0.142	<20	0.98	0.088	0.11	0.4	0.08	<0.1	1.42	3.1	8.2	5	0.6	N.A.
1554113	Rock	0.102	3	6	0.85	30	0.086	<20	0.83	0.081	0.08	0.2	<0.01	<0.1	<0.05	2.1	<0.5	3	<0.2	N.A.
1554114	Rock	0.149	2	6	1.60	44	0.173	<20	1.69	0.089	0.07	0.1	<0.01	<0.1	<0.05	5.5	<0.5	10	<0.2	N.A.
1554115	Rock	0.139	2	4	1.05	46	0.136	<20	1.17	0.072	0.08	0.2	<0.01	<0.1	0.10	4.4	<0.5	7	<0.2	N.A.
1554116	Rock	0.152	1	5	2.00	32	0.199	<20	2.03	0.090	0.07	0.1	<0.01	<0.1	0.48	4.6	1.1	7	<0.2	N.A.
1554117	Rock	0.147	2	7	1.69	56	0.219	<20	1.76	0.049	0.08	0.3	<0.01	<0.1	2.45	10.4	1.7	10	0.3	N.A.
1554118	Rock	0.147	4	3	0.91	52	0.103	<20	1.34	0.101	0.12	0.2	<0.01	<0.1	<0.05	3.2	<0.5	5	<0.2	N.A.
1554151	Rock	0.095	1	4	0.63	45	0.127	<20	0.71	0.031	0.09	0.1	0.16	<0.1	0.89	2.3	20.1	5	1.1	N.A.





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Project: North\_Rok  
Report Date: December 21, 2012

Page: 1 of 3 Part: 1 of 1

**QUALITY CONTROL REPORT** WHI12000790.2

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1554072	Rock	1.47	28	1.8	569.6	4.0	11	0.5	17.0	8.2	3521	4.33	19.8	14.9	0.7	190	<0.1	1.9	<0.1	22	9.28
REP 1554072	QC			1.8	555.1	4.1	10	0.5	16.1	8.2	3491	4.28	20.6	23.6	0.7	196	<0.1	1.9	<0.1	22	9.28
1554111	Rock	1.32	<2	14.0	26.5	4.8	<1	0.1	1.3	4.8	30	1.28	5.3	1.0	0.1	49	<0.1	0.9	<0.1	5	0.04
REP 1554111	QC		<2																		
1554152	Rock	2.02	4412	8.7	>10000	548.0	214	14.0	6.8	5.3	1262	9.66	19.7	6617	0.6	23	0.8	0.4	2.1	57	0.37
REP 1554152	QC			8.8	>10000	523.1	203	12.6	6.4	5.1	1241	9.19	18.8	4224	0.6	23	0.9	0.4	2.0	56	0.33
1723804	Rock	1.22	5	1.2	54.2	10.6	46	<0.1	1.0	1.6	206	1.15	4.0	5.4	1.9	45	0.1	0.7	<0.1	12	0.19
REP 1723804	QC		5																		
1554206	Rock	0.75	15	7.0	300.9	0.7	28	<0.1	2.0	2.1	243	1.82	12.6	14.9	0.7	13	<0.1	0.3	<0.1	44	0.42
REP 1554206	QC			6.6	307.4	0.9	29	<0.1	2.0	2.1	251	1.87	13.5	7.5	0.7	13	0.1	0.3	<0.1	44	0.42
1554116	Rock	1.41	<2	0.5	56.2	2.4	46	<0.1	4.0	19.7	428	3.77	13.6	<0.5	0.4	51	0.1	0.3	<0.1	122	0.89
REP 1554116	QC		<2																		
1554151	Rock	1.31	3914	58.7	9159	98.0	73	9.3	2.4	5.8	388	6.23	12.5	2347	0.7	14	0.3	0.3	2.3	68	0.28
REP 1554151	QC		3535																		
Core Reject Duplicates																					
1554069	Rock	2.06	9	0.5	137.3	4.6	20	0.1	24.0	13.8	3796	5.32	10.0	5.3	0.5	219	<0.1	1.2	<0.1	58	11.52
DUP 1554069	QC		6	0.7	112.1	4.8	28	0.1	23.6	14.7	2927	4.71	7.5	5.9	0.8	472	0.1	1.1	<0.1	79	12.85
1554221	Rock	0.75	<2	0.3	3.3	2.1	23	<0.1	1.3	0.6	327	0.62	<0.5	<0.5	10.6	30	0.3	0.3	<0.1	<2	0.60
DUP 1554221	QC		<2	0.3	2.8	2.3	22	<0.1	2.3	0.7	314	0.60	<0.5	1.4	11.0	33	0.4	0.4	<0.1	<2	0.57
1554173	Rock	1.35	33	5.0	86.1	33.6	79	0.2	1.6	6.2	410	2.78	31.4	24.7	0.7	34	0.2	0.8	0.3	63	0.68
DUP 1554173	QC		35	4.9	88.4	33.8	84	0.2	1.6	6.0	385	2.75	31.1	55.5	0.8	34	0.2	0.8	0.3	63	0.68
Reference Materials																					
STD DS9	Standard			14.5	120.1	141.4	328	1.8	44.2	8.3	596	2.34	28.1	129.4	7.1	67	2.6	4.9	6.2	39	0.71
STD DS9	Standard			12.9	115.8	133.7	321	1.8	42.5	8.3	613	2.42	24.9	129.0	6.2	63	2.4	4.2	6.2	41	0.73
STD DS9	Standard			11.8	109.8	121.8	308	1.8	38.5	7.2	568	2.27	25.5	94.1	5.9	66	2.4	5.1	5.4	40	0.68
STD DS9	Standard			12.8	116.6	122.8	309	1.8	39.5	7.6	605	2.39	24.7	104.7	7.4	74	2.3	3.4	6.2	41	0.75
STD GC-7	Standard																				
STD OREAS133B	Standard																				



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**Project:** North\_Rok  
**Report Date:** December 21, 2012

**Page:** 1 of 3

**Part:** 2 of 1

# QUALITY CONTROL REPORT

WHI12000790.2

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	7AR	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Tl	S	Sc	Se	Ga	Te	Cu	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
Pulp Duplicates																				
1554072	Rock	0.049	6	4	1.73	217	<0.001	<20	0.23	0.005	0.14	<0.1	0.12	<0.1	0.22	4.3	<0.5	<1	<0.2	N.A.
REP 1554072	QC	0.047	6	4	1.71	220	<0.001	<20	0.22	0.006	0.14	<0.1	0.16	<0.1	0.22	4.1	0.8	<1	<0.2	
1554111	Rock	0.002	<1	5	<0.01	1634	<0.001	<20	0.18	0.005	0.11	<0.1	6.96	<0.1	0.25	1.0	1.1	<1	<0.2	N.A.
REP 1554111	QC																			
1554152	Rock	0.161	2	4	1.38	85	0.122	<20	1.31	0.008	0.12	0.2	0.46	<0.1	3.03	4.6	38.7	8	1.0	3.327
REP 1554152	QC	0.162	2	4	1.36	81	0.119	<20	1.25	0.008	0.12	0.2	0.43	<0.1	3.08	4.4	36.7	8	0.9	3.305
1723804	Rock	0.013	4	4	0.31	10	0.056	<20	0.52	0.054	0.03	<0.1	<0.01	<0.1	<0.05	1.8	1.2	3	<0.2	N.A.
REP 1723804	QC																			
1554206	Rock	0.107	<1	5	0.62	22	0.073	<20	0.60	0.067	0.07	0.2	<0.01	<0.1	<0.05	1.9	<0.5	3	<0.2	N.A.
REP 1554206	QC	0.107	<1	5	0.63	23	0.074	<20	0.61	0.070	0.07	0.2	<0.01	<0.1	<0.05	2.1	<0.5	3	<0.2	
1554116	Rock	0.152	1	5	2.00	32	0.199	<20	2.03	0.090	0.07	0.1	<0.01	<0.1	0.48	4.6	1.1	7	<0.2	N.A.
REP 1554116	QC																			
1554151	Rock	0.095	1	4	0.63	45	0.127	<20	0.71	0.031	0.09	0.1	0.16	<0.1	0.89	2.3	20.1	5	1.1	N.A.
REP 1554151	QC																			
Core Reject Duplicates																				
1554069	Rock	0.051	9	4	2.16	1170	0.001	<20	0.34	0.007	0.16	<0.1	0.43	<0.1	0.13	5.1	1.1	1	<0.2	N.A.
DUP 1554069	QC	0.089	10	17	1.78	984	0.002	<20	0.64	0.023	0.15	<0.1	0.36	<0.1	0.12	8.5	0.6	2	<0.2	N.A.
1554221	Rock	0.006	26	2	0.04	91	<0.001	<20	0.38	0.022	0.30	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<0.2	N.A.
DUP 1554221	QC	0.006	28	2	0.04	91	<0.001	<20	0.39	0.020	0.28	<0.1	<0.01	<0.1	<0.05	0.7	<0.5	1	<0.2	N.A.
1554173	Rock	0.138	1	3	0.80	19	0.131	<20	1.13	0.079	0.07	<0.1	<0.01	<0.1	0.27	4.1	1.5	5	<0.2	N.A.
DUP 1554173	QC	0.134	1	3	0.80	19	0.134	<20	1.12	0.084	0.07	<0.1	<0.01	<0.1	0.27	3.9	2.1	5	<0.2	N.A.
Reference Materials																				
STD DS9	Standard	0.082	13	128	0.63	332	0.112	<20	0.97	0.081	0.40	3.0	0.21	5.8	0.16	2.4	5.6	5	5.1	
STD DS9	Standard	0.085	11	129	0.64	312	0.109	<20	0.98	0.083	0.42	2.8	0.20	5.4	0.17	2.5	5.6	4	5.4	
STD DS9	Standard	0.081	11	115	0.61	307	0.102	<20	0.90	0.079	0.39	2.6	0.23	5.4	0.18	2.3	5.3	5	5.0	
STD DS9	Standard	0.083	13	119	0.64	316	0.111	<20	0.98	0.084	0.40	2.6	0.21	5.3	0.16	2.6	5.5	4	4.7	
STD GC-7	Standard																			0.559
STD OREAS133B	Standard																			0.032

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**Project:** North\_Rok  
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Page: 2 of 3

Part: 1 of 1

# QUALITY CONTROL REPORT

WHI12000790.2

	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
STD OREAS45CA	Standard		0.9	516.7	20.0	63	0.3	240.4	96.2	933	15.90	3.9	41.3	7.0	13	0.1	0.2	0.1	217	0.42
STD OREAS45CA	Standard		1.0	504.6	19.6	63	0.3	258.8	95.6	966	16.20	3.6	42.3	7.0	14	<0.1	0.1	0.1	234	0.44
STD OREAS45CA	Standard		1.0	486.6	19.3	61	0.2	237.0	89.6	937	15.60	4.5	43.6	7.2	15	0.1	0.2	0.1	208	0.44
STD OREAS45CA	Standard		0.8	517.8	19.8	59	0.3	258.6	90.3	930	15.61	2.8	35.5	7.3	14	0.1	<0.1	0.1	223	0.41
STD OXD87	Standard	400																		
STD OXD87	Standard	410																		
STD OXD87	Standard	402																		
STD OXD87	Standard	442																		
STD OXG99	Standard	894																		
STD OXG99	Standard	896																		
STD OXG99	Standard	972																		
STD OXG99	Standard	933																		
STD OXG99 Expected		932																		
STD OXD87 Expected		417																		
STD OREAS45CA Expected			1	494	20	60	0.275	240	92	943	15.69	3.8	43	7	15	0.1	0.13	0.19	215	0.4265
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
STD GC-7 Expected																				
STD OREAS133B Expected																				
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank		<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank	<2																		
BLK	Blank	<2																		

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**Project:** North\_Rok  
**Report Date:** December 21, 2012

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Part: 2 of 1

# QUALITY CONTROL REPORT

WHI12000790.2

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm	7AR Cu %	
		0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	0.1	0.5	1	0.2	0.001	
STD OREAS45CA	Standard	0.034	16	781	0.13	170	0.128	<20	3.53	0.008	0.07	<0.1	0.03	<0.1	<0.05	43.6	<0.5	18	<0.2		
STD OREAS45CA	Standard	0.036	16	823	0.13	167	0.139	<20	3.87	0.007	0.08	<0.1	0.03	<0.1	<0.05	46.9	0.6	18	<0.2		
STD OREAS45CA	Standard	0.039	16	689	0.13	165	0.125	<20	3.44	0.009	0.07	<0.1	0.04	<0.1	<0.05	44.5	1.1	19	<0.2		
STD OREAS45CA	Standard	0.037	16	728	0.14	162	0.146	<20	3.66	0.007	0.07	<0.1	0.03	<0.1	<0.05	43.2	<0.5	18	<0.2		
STD OXD87	Standard																				
STD OXD87	Standard																				
STD OXD87	Standard																				
STD OXD87	Standard																				
STD OXG99	Standard																				
STD OXG99	Standard																				
STD OXG99	Standard																				
STD OXG99	Standard																				
STD OXG99 Expected																					
STD OXD87 Expected																					
STD OREAS45CA Expected		0.0385	15.9	709	0.1358	164	0.128		3.592	0.0075	0.0717		0.03	0.07	0.021	39.7	0.5	18.4			
STD DS9 Expected		0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	5.3	0.1615	2.5	5.2	4.59	5.02		
STD GC-7 Expected																					0.555
STD OREAS133B Expected																					0.032
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2		
BLK	Blank																				
BLK	Blank																				

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



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West Kelowna BC V4T 2N6 Canada

**Project:** North\_Rok  
**Report Date:** December 21, 2012

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## QUALITY CONTROL REPORT

WHI12000790.2

	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank																			
Prep Wash																				
G1-WHI	Prep Blank	<2	0.2	2.3	3.5	53	<0.1	4.5	5.0	614	2.17	<0.5	<0.5	5.0	52	<0.1	<0.1	<0.1	37	0.47
G1-WHI	Prep Blank	<2	<0.1	1.8	2.6	48	<0.1	4.3	5.0	605	2.10	<0.5	<0.5	5.5	53	<0.1	<0.1	<0.1	37	0.44



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**Project:** North\_Rok  
**Report Date:** December 21, 2012

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# QUALITY CONTROL REPORT

WHI12000790.2

		1DX P %	1DX La ppm	1DX Cr ppm	1DX Mg %	1DX Ba ppm	1DX Ti %	1DX B ppm	1DX Al %	1DX Na %	1DX K %	1DX W ppm	1DX Hg ppm	1DX Tl ppm	1DX S %	1DX Sc ppm	1DX Se ppm	1DX Ga ppm	1DX Te ppm	7AR Cu %
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<0.1	<0.5	<1	<0.2	
BLK	Blank																			0.001
Prep Wash																				
G1-WHI	Prep Blank	0.078	9	12	0.62	252	0.132	<20	0.99	0.064	0.52	<0.1	<0.01	0.3	<0.05	2.2	<0.5	5	<0.2	N.A.
G1-WHI	Prep Blank	0.079	10	12	0.62	238	0.134	<20	1.01	0.069	0.50	<0.1	<0.01	0.3	<0.05	2.3	<0.5	5	<0.2	N.A.



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Submitted By: Greg Dawson

Receiving Lab: Canada-Whitehorse

Received: October 03, 2012

Report Date: October 29, 2012

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CERTIFICATE OF ANALYSIS

WHI12000961.1

CLIENT JOB INFORMATION

Project: North\_Rok
Shipment ID:
P.O. Number
Number of Samples: 14

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

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

Invoice To: Colorado Resources Ltd.
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
Canada

CC: Linda Dandy
Jessica Norris
Allan Jacobs
Adam Travis

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-500, 3B, and 1DX.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: North\_Rok  
 Report Date: October 29, 2012

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

WHI12000961.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
G1-WHI	Prep Blank	<0.01	3	<0.1	1.8	1.8	44	<0.1	3.6	4.2	538	1.97	<0.5	0.7	3.9	51	<0.1	<0.1	<0.1	37	0.45
G1-WHI	Prep Blank	<0.01	14	0.1	2.3	2.0	42	<0.1	3.9	4.0	547	1.97	<0.5	1.7	4.0	50	<0.1	<0.1	<0.1	37	0.47
1508951	Rock	1.40	10	0.7	58.2	3.5	71	<0.1	3.1	8.5	497	4.10	19.5	9.6	0.6	35	0.1	0.4	<0.1	124	0.76
1508952	Rock	1.50	22	1.6	71.1	4.9	79	<0.1	3.9	11.3	762	4.66	28.2	13.5	0.7	45	0.7	0.3	0.5	159	1.33
1508953	Rock	1.61	13	0.7	58.3	5.1	60	<0.1	3.3	13.7	541	4.57	31.0	7.2	0.6	57	<0.1	0.4	1.1	138	0.91
1508954	Rock	1.13	8	0.7	111.8	7.2	36	<0.1	5.5	19.7	335	4.59	26.3	4.0	0.4	51	0.2	0.6	0.6	142	0.91
1508955	Rock	1.35	15	1.2	202.5	12.1	52	<0.1	4.9	22.3	529	5.82	25.4	5.9	0.3	47	0.2	0.7	0.3	184	0.98
1508956	Rock	1.35	9	0.9	111.1	1.4	24	<0.1	5.4	19.7	364	4.68	14.2	3.1	0.4	42	<0.1	0.4	0.2	199	0.93
1508957	Rock	0.92	6	0.9	107.0	42.0	247	0.5	4.0	21.0	1367	3.71	17.1	4.4	0.6	30	2.3	0.4	0.6	146	0.51
1508958	Rock	2.32	832	15.7	4844	5.3	58	4.6	2.2	10.0	316	5.78	21.7	906.6	0.6	14	<0.1	0.4	0.2	85	0.28
1508959	Rock	1.62	752	12.8	3500	5.3	18	1.6	2.0	2.8	137	6.59	13.1	528.1	0.6	7	<0.1	0.3	0.1	88	0.20
1508960	Rock	2.05	2474	9.0	2479	17.1	40	4.2	1.7	11.2	201	4.17	16.0	2043	0.5	19	<0.1	0.3	1.0	62	0.32
1508961	Rock	1.47	322	10.2	2048	6.5	34	1.2	1.7	21.4	230	4.56	17.5	282.9	0.7	14	0.1	0.3	0.2	88	0.46
1508962	Rock	0.74	276	3.2	311.7	8.5	59	0.5	1.5	5.4	296	3.46	16.6	186.3	0.9	23	<0.1	0.3	0.3	97	0.40
1508963	Rock	1.32	5	1.0	9.8	4.7	127	<0.1	1.9	14.1	903	4.48	2.6	32.5	1.8	127	<0.1	<0.1	<0.1	135	1.56
1508964	Rock	1.32	<2	0.5	4.3	3.7	153	<0.1	1.3	11.6	987	2.85	4.1	17.3	2.6	46	<0.1	<0.1	<0.1	71	1.17





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Project: North\_Rok  
 Report Date: October 29, 2012

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CERTIFICATE OF ANALYSIS

WHI12000961.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
G1-WHI	Prep Blank	0.080	8	8	0.57	197	0.127	<20	0.92	0.071	0.47	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	0.080	8	9	0.58	192	0.130	<20	0.94	0.076	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
1508951	Rock	0.138	2	4	1.64	38	0.161	<20	1.64	0.096	0.11	<0.1	<0.01	4.1	<0.1	<0.05	7	<0.5	<0.2
1508952	Rock	0.148	2	6	1.74	43	0.204	<20	2.90	0.139	0.23	0.4	<0.01	12.5	<0.1	1.92	10	2.6	0.3
1508953	Rock	0.146	3	7	1.70	39	0.164	<20	2.17	0.207	0.12	0.5	0.01	10.9	<0.1	3.55	8	4.7	0.3
1508954	Rock	0.139	2	6	1.09	65	0.130	<20	1.77	0.193	0.20	0.2	0.04	9.6	<0.1	3.37	6	3.5	0.3
1508955	Rock	0.138	1	9	1.79	55	0.189	<20	2.06	0.175	0.15	0.1	0.01	8.3	<0.1	2.10	8	6.0	0.4
1508956	Rock	0.135	2	9	2.23	57	0.215	<20	2.53	0.182	0.29	<0.1	<0.01	14.4	<0.1	1.56	10	1.3	<0.2
1508957	Rock	0.132	2	7	2.02	51	0.170	<20	2.11	0.105	0.21	0.1	0.02	10.1	<0.1	1.51	7	<0.5	<0.2
1508958	Rock	0.091	1	6	1.00	38	0.100	<20	0.94	0.034	0.13	0.4	0.03	3.0	<0.1	1.13	7	9.2	0.3
1508959	Rock	0.073	<1	6	0.17	28	0.076	<20	0.30	0.034	0.14	0.2	0.03	2.0	<0.1	0.31	3	4.9	<0.2
1508960	Rock	0.092	1	3	0.49	32	0.085	<20	0.42	0.039	0.11	0.2	0.01	1.3	0.1	0.50	3	9.0	0.5
1508961	Rock	0.110	2	3	0.91	41	0.094	<20	0.85	0.051	0.12	0.3	<0.01	3.2	<0.1	1.24	5	4.6	0.2
1508962	Rock	0.121	3	2	0.68	42	0.085	<20	0.92	0.069	0.12	0.2	<0.01	2.9	<0.1	0.29	5	3.1	<0.2
1508963	Rock	0.147	16	3	2.32	76	0.185	<20	2.29	0.111	0.13	<0.1	<0.01	7.2	<0.1	<0.05	9	<0.5	<0.2
1508964	Rock	0.148	14	2	2.44	61	0.157	<20	1.76	0.054	0.12	0.2	<0.01	5.9	<0.1	<0.05	8	<0.5	<0.2



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Project: North\_Rok

Report Date: October 29, 2012

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Part: 1 of 1

# QUALITY CONTROL REPORT

WHI12000961.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
1508959	Rock	1.62	752	12.8	3500	5.3	18	1.6	2.0	2.8	137	6.59	13.1	528.1	0.6	7	<0.1	0.3	0.1	88	0.20
REP 1508959	QC			12.4	3477	5.1	18	1.6	1.8	2.7	132	6.39	12.9	629.2	0.6	7	<0.1	0.2	0.1	88	0.21
Core Reject Duplicates																					
1508958	Rock	2.32	832	15.7	4844	5.3	58	4.6	2.2	10.0	316	5.78	21.7	906.6	0.6	14	<0.1	0.4	0.2	85	0.28
DUP 1508958	QC	<0.01	817	16.3	4794	5.4	58	4.5	2.1	9.9	318	5.81	21.5	604.5	0.6	15	0.1	0.4	0.2	85	0.27
Reference Materials																					
STD DS9	Standard			11.9	116.4	108.3	289	1.6	39.2	7.4	539	2.29	23.6	180.5	5.4	63	2.1	4.0	5.4	40	0.69
STD OREAS45EA	Standard			0.8	647.9	10.8	27	0.3	348.1	46.5	481	20.99	7.8	56.0	9.8	6	<0.1	0.2	0.3	274	0.07
STD OXD87	Standard			422																	
STD OXG99	Standard			970																	
STD OXD87 Expected				417																	
STD OXG99 Expected				932																	
STD OREAS45EA Expected				1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032
STD DS9 Expected				12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank			<2																	
BLK	Blank			<2																	
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1-WHI	Prep Blank	<0.01	3	<0.1	1.8	1.8	44	<0.1	3.6	4.2	538	1.97	<0.5	0.7	3.9	51	<0.1	<0.1	<0.1	37	0.45
G1-WHI	Prep Blank	<0.01	14	0.1	2.3	2.0	42	<0.1	3.9	4.0	547	1.97	<0.5	1.7	4.0	50	<0.1	<0.1	<0.1	37	0.47



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Project: North\_Rok  
 Report Date: October 29, 2012

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Part: 2 of 1

# QUALITY CONTROL REPORT

WHI12000961.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																			
1508959	Rock	0.073	<1	6	0.17	28	0.076	<20	0.30	0.034	0.14	0.2	0.03	2.0	<0.1	0.31	3	4.9	<0.2
REP 1508959	QC	0.074	<1	6	0.17	28	0.075	<20	0.29	0.033	0.14	0.2	0.02	2.1	<0.1	0.31	3	5.0	0.3
Core Reject Duplicates																			
1508958	Rock	0.091	1	6	1.00	38	0.100	<20	0.94	0.034	0.13	0.4	0.03	3.0	<0.1	1.13	7	9.2	0.3
DUP 1508958	QC	0.090	1	5	0.99	39	0.102	<20	0.95	0.036	0.14	0.5	0.03	3.0	<0.1	1.17	7	9.3	0.2
Reference Materials																			
STD DS9	Standard	0.078	11	122	0.61	296	0.109	<20	0.91	0.080	0.39	2.4	0.18	2.0	5.0	0.17	4	5.9	4.4
STD OREAS45EA	Standard	0.023	6	799	0.08	145	0.084	<20	2.91	0.021	0.05	<0.1	<0.01	72.3	0.6	<0.05	12	<0.5	<0.2
STD OXD87	Standard																		
STD OXG99	Standard																		
STD OXD87 Expected																			
STD OXG99 Expected																			
STD OREAS45EA Expected		0.029	8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
STD DS9 Expected		0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1-WHI	Prep Blank	0.080	8	8	0.57	197	0.127	<20	0.92	0.071	0.47	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2
G1-WHI	Prep Blank	0.080	8	9	0.58	192	0.130	<20	0.94	0.076	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



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Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: Colorado Resources Ltd.

110 - 2300 Carrington Road  
West Kelowna BC V4T 2N6 Canada

Submitted By: Linda Dandy  
Receiving Lab: Canada-Smithers  
Received: October 15, 2012  
Report Date: October 29, 2012  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

# SMI12000476.1

## CLIENT JOB INFORMATION

Project: North\_Rok  
Shipment ID:  
P.O. Number  
Number of Samples: 9

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	9	Crush, split and pulverize 250 g rock to 200 mesh			SMI
3B	9	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1DX	9	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN

## SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

## ADDITIONAL COMMENTS

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

Invoice To: Colorado Resources Ltd.  
110 - 2300 Carrington Road  
West Kelowna BC V4T 2N6  
Canada

CC: Greg Dawson  
Jessica Norris



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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 West Kelowna BC V4T 2N6 Canada

Project: North\_Rok  
 Report Date: October 29, 2012

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000476.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
G1-SMI	Prep Blank	<0.01	<2	0.1	4.8	4.9	53	<0.1	3.8	4.6	570	1.95	1.8	7.2	5.1	55	<0.1	<0.1	<0.1	34	0.48
G1-SMI	Prep Blank	<0.01	3	0.1	4.1	5.1	52	<0.1	4.2	4.7	574	1.96	1.3	3.0	5.3	54	<0.1	<0.1	<0.1	35	0.46
1508901	Rock	0.67	7	0.8	81.5	4.4	64	<0.1	4.6	13.1	475	3.18	29.3	6.7	0.9	52	0.1	0.5	0.5	83	0.53
1508902	Rock	0.93	23	5.6	53.5	17.4	52	0.2	1.4	13.2	349	6.64	161.8	25.1	0.7	61	0.1	1.0	0.5	98	1.07
1508903	Rock	0.71	16	1.3	137.6	9.7	24	0.1	1.3	18.6	302	3.94	28.2	19.1	0.4	63	<0.1	0.4	1.8	38	0.99
1508904	Rock	0.94	7	0.7	49.0	269.0	283	0.7	1.8	11.3	911	3.59	21.0	9.8	0.7	31	1.0	0.7	1.3	78	0.47
1508905	Rock	0.92	5	0.3	12.1	5.5	28	<0.1	2.0	8.5	292	2.53	23.8	5.0	0.7	28	<0.1	0.7	0.6	56	0.67
1508906	Rock	0.86	4	1.5	52.8	4.3	16	<0.1	1.9	9.3	144	2.50	26.9	3.6	0.6	25	<0.1	0.4	0.4	56	0.47
1508907	Rock	0.90	8	1.3	48.0	7.2	20	<0.1	1.2	11.7	184	2.09	36.9	6.3	0.5	46	0.1	0.4	0.5	38	1.52
1508908	Rock	0.65	5	1.0	25.0	12.4	34	<0.1	2.4	9.8	276	4.79	10.8	4.5	0.5	15	<0.1	0.5	0.2	185	0.38
1508909	Rock	1.89	7	1.6	144.1	8.1	49	<0.1	4.0	15.9	595	5.16	14.6	6.2	0.4	78	0.2	0.7	0.2	218	1.01



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 West Kelowna BC V4T 2N6 Canada

**Project:** North\_Rok  
**Report Date:** October 29, 2012

**Page:** 2 of 2

**Part:** 2 of 1

**CERTIFICATE OF ANALYSIS**

**SMI12000476.1**

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
G1-SMI	Prep Blank	0.077	9	8	0.58	221	0.126	<20	0.99	0.072	0.46	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	0.076	9	9	0.59	219	0.126	<20	0.97	0.071	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2
1508901	Rock	0.124	3	6	1.43	46	0.141	<20	1.72	0.071	0.09	0.3	<0.01	4.6	<0.1	1.04	7	1.6	0.3
1508902	Rock	0.141	1	2	1.30	41	0.130	<20	2.50	0.244	0.10	0.3	0.04	6.6	<0.1	5.31	9	10.6	1.6
1508903	Rock	0.169	1	2	0.53	78	0.083	<20	1.69	0.210	0.11	0.2	0.03	3.4	<0.1	2.99	4	3.8	0.6
1508904	Rock	0.137	2	3	0.93	39	0.139	<20	1.10	0.094	0.08	0.2	0.45	6.6	<0.1	1.34	6	3.1	0.3
1508905	Rock	0.145	2	3	0.69	24	0.146	<20	0.81	0.101	0.06	0.2	<0.01	3.5	<0.1	1.07	4	1.2	0.3
1508906	Rock	0.118	2	3	0.38	32	0.094	<20	0.88	0.087	0.09	0.2	<0.01	4.0	<0.1	0.89	3	1.1	<0.2
1508907	Rock	0.184	3	1	0.33	21	0.093	<20	1.47	0.125	0.07	0.4	0.01	2.8	<0.1	1.31	5	2.4	<0.2
1508908	Rock	0.113	2	3	1.84	30	0.273	<20	1.48	0.065	0.08	0.3	0.03	12.9	<0.1	2.11	10	2.3	0.4
1508909	Rock	0.153	2	2	2.45	133	0.296	<20	3.59	0.264	0.40	0.1	<0.01	21.0	0.1	1.70	12	0.7	<0.2



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 Report Date: October 29, 2012

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# QUALITY CONTROL REPORT

SMI12000476.1

Method	WGHT	3B	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
Core Reject Duplicates																					
1508902	Rock	0.93	23	5.6	53.5	17.4	52	0.2	1.4	13.2	349	6.64	161.8	25.1	0.7	61	0.1	1.0	0.5	98	1.07
DUP 1508902	QC	<0.01	24	5.4	56.0	18.4	55	0.2	1.6	13.1	349	6.78	165.9	23.4	0.8	61	0.1	0.9	0.5	99	1.06
Reference Materials																					
STD DS9	Standard		11.6	107.5	139.4	312	2.0	38.8	7.2	577	2.30	27.0	120.7	7.3	74	2.2	4.4	7.5	37	0.71	
STD OREAS45EA	Standard		1.4	692.5	16.0	29	0.3	388.4	51.0	415	23.45	9.0	56.2	11.0	4	<0.1	0.2	0.3	303	0.04	
STD OXD87	Standard	386																			
STD OXG99	Standard	858																			
STD OXD87 Expected		417																			
STD OXG99 Expected		932																			
STD DS9 Expected			12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	
STD OREAS45EA Expected			1.78	709	14.3	30.6	0.311	357	52	400	22.65	11.4	53	10.7	4.05	0.03	0.64	0.26	295	0.032	
BLK	Blank	3																			
BLK	Blank	<2																			
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	0.1	4.8	4.9	53	<0.1	3.8	4.6	570	1.95	1.8	7.2	5.1	55	<0.1	<0.1	<0.1	34	0.48
G1-SMI	Prep Blank	<0.01	3	0.1	4.1	5.1	52	<0.1	4.2	4.7	574	1.96	1.3	3.0	5.3	54	<0.1	<0.1	<0.1	35	0.46



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Project: North\_Rok  
 Report Date: October 29, 2012

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Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000476.1

Method	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Core Reject Duplicates																			
1508902	Rock	0.141	1	2	1.30	41	0.130	<20	2.50	0.244	0.10	0.3	0.04	6.6	<0.1	5.31	9	10.6	1.6
DUP 1508902	QC	0.142	1	3	1.30	40	0.132	<20	2.49	0.236	0.10	0.3	0.04	6.8	<0.1	5.36	9	8.6	1.7
Reference Materials																			
STD DS9	Standard	0.081	12	116	0.62	318	0.109	<20	0.94	0.080	0.39	2.5	0.21	2.3	5.5	0.16	5	5.8	5.0
STD OREAS45EA	Standard	0.029	7	799	0.11	145	0.090	<20	3.14	0.017	0.05	<0.1	0.01	80.1	<0.1	<0.05	13	0.6	<0.2
STD OXD87	Standard																		
STD OXG99	Standard																		
STD OXD87 Expected																			
STD OXG99 Expected																			
STD DS9 Expected		0.0819	13.3	121	0.6165	330	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
STD OREAS45EA Expected		0.029	8.19	849	0.095	148	0.106		3.32	0.027	0.053		0.34	78	0.072	0.044	11.7	2.09	0.11
BLK	Blank																		
BLK	Blank																		
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1-SMI	Prep Blank	0.077	9	8	0.58	221	0.126	<20	0.99	0.072	0.46	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2
G1-SMI	Prep Blank	0.076	9	9	0.59	219	0.126	<20	0.97	0.071	0.47	<0.1	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2



## **Appendix 6**

Magnetometer Survey Logistics Report

*Meridian Mapping Ltd.*



9400 Bel Air Drive, Coldstream, BC, V1B-1C3  
Tel: (250)558-5068 Fax: (250)558-5068  
[www.MeridianMapping.ca](http://www.MeridianMapping.ca)

## LOGISTICS REPORT

On

### GROUND MAGNETIC SURVEY

NORTH ROK PROPERTY  
LIARD MINING DIVISION, BC  
57° 49' 20" N Lat, 129° 53' 30' W Long  
NAD 83 UTM Zone 10 444000E, 6408000N  
NTS Mapsheet(s): 104H/13  
BCGS Mapsheet(s): 104H.071 & 081

August 30<sup>th</sup> to September 4<sup>th</sup> 2012

For

COLORADO RESOURCES LTD.  
110 - 2300 Carrington Road  
West Kelowna, British Columbia  
V4T 2N6

By

Meridian Mapping Ltd.

Coldstream, British Columbia

December 2012

## **INTRODUCTION:**

Between August 30<sup>th</sup> and September 4<sup>th</sup> 2012, Meridian Mapping Ltd. completed a ground magnetometer survey over an area in the northwest portion of the North ROK Property near Iskut Village, British Columbia for Colorado Resources Ltd.

## **PROPERTY LOCATION & ACCESS:**

The North ROK Property is located on the east side of Eddontenajon Lake just south of the Village of Iskut in the Stikine River region of northwestern British Columbia. The survey grid was located on the east side of Highway 37, 4 kilometers southeast of the Village of Iskut in the Liard Mining Division.

Access was gained by vehicle from accommodations in Iskut and then by foot from Highway 37.

## **SURVEY SPECIFICATIONS:**

### *Survey Grid:*

A survey grid was designed consisting of 16 lines, 2 kilometres long, at 200m spacing on an east-west orientation to cover the Edon and Mabon Minfile showings. Two infill lines (L8450N & L8650N) were added to provide better resolution over the Mabon showing. No grid establishment was done prior to the survey so the survey was conducted using GPS navigation and only the ends of the survey lines were flagged.

A total of 59.6 kilometres were surveyed over six field days.

### *Magnetic Survey:*

The magnetic survey was conducted by two operators using two GPS equipped GSM Ver 7.0 19W Overhauser walking magnetometers manufactured by GEM Systems of Richmond Hill, Ontario. This instrument measures variations in the total intensity of the earth's magnetic field to an absolute accuracy of +/- 0.1 nT. They were used in 'walking mode' and set to record a reading every 2 seconds. A third GSM 19 magnetometer was employed as a stationary base to measure the diurnal variations in the earth's magnetic field. Data was recorded at a 3 second interval at the base. This base data was used to apply diurnal correction to the rover data. A 100 meter length of overlap line was walked each morning by both units. Data from this overlap line was used to level the data between the two instruments as well as between survey days.

### *Positional Control:*

The GSM 19W magnetometers are equipped with Novatel SuperStar II DGPS boards. The GPS attaches 3-dimensional coordinates, differentially corrected in real-time using the WAAS service, to each magnetometer reading. Accuracies of +/- 1.5m can be achieved in ideal conditions, however ~5m is more typical under tree canopy. Garmin GPSMap 60CSx units, which provide a similar accuracy, were also used for navigation and backup and recorded track data at a 2 second interval.

## **DATA PROCESSING:**

### *Preliminary Processing:*

Preliminary processing of the field data included:

- Diurnal correction of the rover data using data from the stationary base.
- Leveling of data from the individual units and multiple survey days using data from the overlap line.
- Cleaning GPS 'spikes' and extrapolating positions to fill GPS gaps.
- Trimming of unnecessary data.
- Preliminary QA/QC of both magnetic and positional data to ensure quality and completeness of field data prior to the field crew leaving the project.

### Final Processing:

Final processing of the total field magnetometer data was performed in Geosoft Oasis Montaj, and followed conventional processing techniques. Processing steps were as follows:

- Diurnally corrected total magnetic profile data was despiked either manually, or by a non-linear filter, as required. This step removes one-station spikes that are caused by instrument dropouts or sensor “knocks”.
- The despiked data was then lightly smoothed using a 7 fiducial-long low pass filter. This step removed the 10 to 15nT saw-tooth noise which is inherent in walking magnetometer data.
- A total magnetic intensity (TMI) grid was generated by gridding the final filtered data using the minimum curvature algorithm, with a grid cell size typically 1/5 of the line separation.
- A calculated 1st vertical derivative (1VD) grid was generated from the TMI grid using a convolution grid filter.
- An analytic signal (AS) grid was generated from the TMI grid using a fast Fourier transform algorithm.
- Geotiff maps of TMI profiles, TMI colour grid, TMI B&W contours, 1VD colour grid, 1VD B&W contours, AS colour grid, AS B&W contours, DEM color grid, DEM B&W contours and line path maps were exported.

### **DATA DELIVERABLES:**

Deliverable data includes:

1. Total Magnetic Intensity
2. Calculated 1<sup>st</sup> Vertical Derivative
3. Analytic Signal
4. Color Shaded DEM
5. B&W Contour Plots of above four.
6. Profiles of Total Magnetic Intensity
7. Survey Track Plot

Respectfully Submitted,  
Meridian Mapping Ltd.



Dugald Dunlop  
B.Sc. (Geology)

## APPENDIX I – EQUIPMENT SPECIFICATIONS



## GSM-19 v7.0

### Overhauser Magnetometer / Gradiometer / VLF

#### Introduction

The GSM-19 v7.0 Overhauser instrument is the total field magnetometer / gradiometer of choice in today's earth science environment - representing a unique blend of physics, data quality, operational efficiency, system design and options that clearly differentiate it from other quantum magnetometers.

With data quality exceeding standard proton precession and comparable to costlier optically pumped cesium units, the GSM-19 is a standard (or emerging standard) in many fields, including:

- \* **Mineral exploration (ground and airborne base station)**
- \* **Environmental and engineering**
- \* **Pipeline mapping**
- \* **Unexploded Ordnance Detention**
- \* **Archeology**
- \* **Magnetic observatory measurements**
- \* **Volcanology and earthquake prediction**

#### Taking Advantage of the Overhauser Effect

Overhauser effect magnetometers are essentially proton precession devices except that they produce an order-of-magnitude greater sensitivity. These "supercharged" quantum magnetometers also deliver high absolute accuracy, rapid cycling (up to 5 readings / second), and exceptionally low power consumption.

The Overhauser effect occurs when a special liquid (with unpaired electrons) is combined with hydrogen atoms and then exposed to secondary polarization from a radio frequency (RF) magnetic field.

The unpaired electrons transfer their stronger polarization to hydrogen atoms, thereby generating a strong precession signal-- that is ideal for very high-sensitivity total field measurement.

In comparison with proton precession methods, RF signal generation also keeps power consumption to an absolute minimum and reduces noise (i.e. generating RF frequencies are well out of the bandwidth of the precession signal).

In addition, polarization and signal measurement can occur simultaneously - which enables faster, sequential measurements. This, in turn, facilitates advanced statistical averaging over the sampling period and/or increased cycling rates (i.e. sampling speeds).

The unique Overhauser unit blends physics, data quality, operational efficiency, system design and options into an instrumentation package that ... exceeds proton precession and matches costlier optically pumped cesium capabilities.

And the latest v7.0 technology upgrades provide even more value, including:

- **Data export in standard XYZ** (i.e. line-oriented) format for easy use in standard commercial software programs
- **Programmable export format** for full control over output
- **GPS elevation values** provide input for geophysical modeling
- **<1.5m standard GPS** for high-resolution surveying
- **<1.0 OmniStar GPS**
- **<0.7m for Newly introduced CDGPS**
- **Multi-sensor capability** for advanced surveys to resolve target geometry
- **Picket marketing / annotation** for capturing related surveying information on the go.

**And all of these technologies come complete with the most attractive prices and warranty in the business!**

## Maximizing Your Data Quality with the GSM-19

Data quality is a function of five key parameters that have been taken into consideration carefully in the design of the GSM-19. These include sensitivity, resolution, absolute accuracy, sampling rates and gradient tolerance.

**Sensitivity** is a measure of the signal-to noise ratio of the measuring device and reflects both the underlying physics and electronic design. The physics of the Overhauser effect improves sensitivity by an order of magnitude over conventional proton precession devices. Electronic enhancements, such as high-precision precession frequency counters enhance sensitivity by 25% over previous versions.

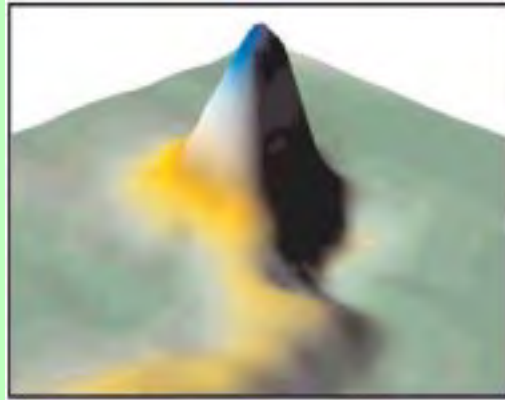
The result is high quality data with sensitivities of 0.022 nT / vHz. This sensitivity is also the same order-of magnitude as costlier optically pumped cesium systems.

**Resolution** is a measure of the smallest number that can be displayed on the instrument (or transmitted via the download process). The GSM-19 has unmatched resolution (0.01mT)

This level of resolution translates into well-defined, characteristic anomalies; improved visual display; and enhanced numerical data for processing and modeling.

**Absolute accuracy** reflects the closeness to the "real value" of the magnetic field -- represented by repeatability of readings either at stations or between different sensors. With an absolute accuracy of +/- 0.1 nT, the GSM-19 delivers repeatable station-to-station results that are reflected in high quality total field results.

Similarly, the system is ideal for gradient installations (readings between different sensors do not differ by more than +/- 0.1 nT) -- maintaining the same high standard of repeatability.



Data from Kalahari Desert kimberlites. Courtesy of MPH Consulting (project managers), IGS c. c. (geophysical contractor) and Aegis Instruments (Pty) Ltd., Botswana.

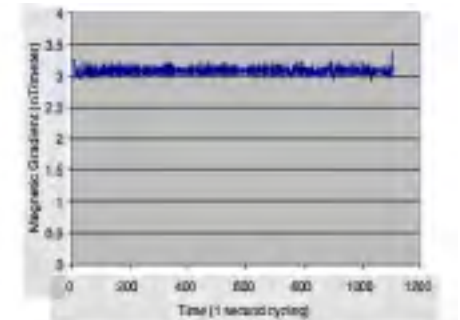
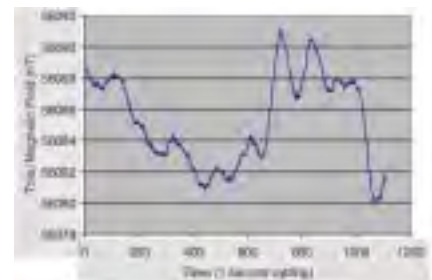
The GSM-19 gradiometer data are consistently low in noise and representative of the geologic environment under investigation.

**Sampling rates** are defined as the fastest speed at which the system can acquire data. This is a particularly important parameter because high sampling rates ensure accurate spatial resolution of anomalies and increase survey efficiency.

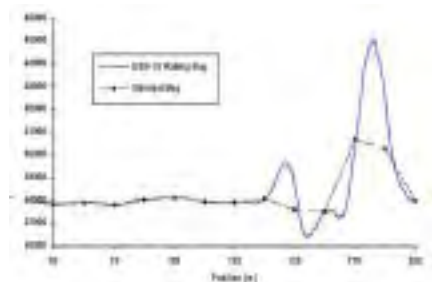
The GSM-19 Overhauser system is configured for two "measurement modes" or maximum sampling rates -- "Standard" (3 seconds / reading), and "Walking" (0.2 seconds / reading) These sampling rates make the GSM-19 a truly versatile system for all ground applications (including vehicle-borne applications).

**Gradient tolerance** represents the ability to obtain reliable measurements in the presence of extreme magnetic field variations. GSM-19 gradient tolerance is maintained through internal signal counting algorithms, sensor design and Overhauser physics. For example, the Overhauser effect produces high amplitude, long-duration signals that facilitate measurement in high gradients.

The system's tolerance (10,000 nT / meter) makes it ideal for many challenging environments -- such as highly magnetic rocks in mineral exploration applications, or near cultural objects in environmental, UXO or archeological applications.



**Total Field and Stationary Vertical Gradient showing the gradient largely unaffected by diurnal variation. Absolute accuracy is also shown to be very high (0.2 nT/meter).**



Much like an airborne acquisition system, the GSM-19 "Walking" magnetometer option delivers very highly-sampled, high sensitivity results that enable very accurate target location and / or earth science decision-making.

## Increasing Your Operational Efficiency

Many organizations have standardized their magnetic geophysical acquisition on the GSM-19 based on high performance and operator preference. This preference reflects performance enhancements such as memory capacity; portability characteristics; GPS and navigation; and dumping and processing.

**Memory capacity** controls the efficient daily acquisition of data, acquisition of positioning results from GPS, and the ability to acquire high resolution results (particularly in GSM-19's "Walking" mode).

V7.0 upgrades have established the GSM-19 as the commercial standard for memory with over 1,465,623 readings (based on a basic configuration of 32 Mbytes of memory and a survey with time, coordinate, and field values).

**Portability characteristics** (ruggedness, light weight and power consumption) are essential for operator productivity in both normal and extreme field conditions.

GSM-19 Overhauser magnetometer is established globally as a robust scientific instrument capable of withstanding temperature, humidity and terrain extremes. It also has the reputation as the lightest and lowest power system available -- reflecting Overhauser effect and RF polarization advantages.



In comparison with proton precession and optically pumped cesium systems, the GSM-19 system is the choice of operators as an easy-to-use and robust system.

**GPS and navigation options** are increasingly critical considerations for earth science professionals.

GPS technologies are revolutionizing data acquisition -- enhancing productivity, increasing spatial resolution, and providing a new level of data quality for informed decision-making.

The GSM-19 is now available with real-time GPS and DGPS options in different survey resolutions. For more details, see the GPS and DGPS section.

The GSM-19 can also be used in a GPS Navigation option with real-time coordinate transformation to UTM, local X-Y coordinate rotations, automatic end of line flag, guidance to the next line, and survey "lane" guidance with cross-track display and audio indicator.

Other enhancements include way point pre-programming of up to 1000 points. Professionals can now define a complete survey before leaving for the field on their PC and download points to the magnetometer via RS-232 connection.

The operator then simply performs the survey using the way points as their survey guide. This capability decreases survey errors, improves efficiency, and ensures more rapid survey completion.

**Dumping and processing** effectiveness is also a critical consideration today. Historically, up to 60% of an operator's "free" time can be spent on low-return tasks, such as data dumping.

Data dumping times are now significantly reduced through GEM's implementation of high-speed, digital data links (up to 115 kBaud).

This functionality is facilitated through a new RISC processor as well as the new GSM-19 data acquisition / display software. This software serves as a bi-directional RS-232 terminal. It also has integrated processing functionality to streamline key processing steps, including diurnal data reduction. This software is provided free to all GSM-19 customers and regular updates are available.

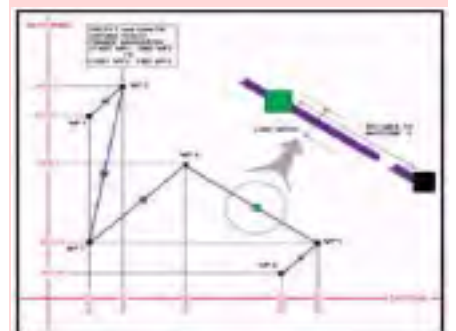


### Navigation and Lane Guidance

The figure above shows the Automatic Grid (UTM, Local Grid, and Rotated Grid). With the Rotated Grid, you can apply an arbitrary origin of your own definition. Then, the coordinates are always in reference to axes parallel to the grid. In short, your grid determines the map, and not the NS direction.

The Local Grid is a scaled down, local version of the UTM system, and is based on your own defined origin. It allows you to use smaller numbers or ones that are most relevant to your survey.

The figure below shows how programmable-waypoints can be used to plan surveys on a point-by-point basis. Initially, you define waypoints and enter them via PC or the keyboard. In the field, the unit guides you to each point.



While walking between waypoints, lane guidance keeps you within a lane of predefined width using arrows (< - or - >) to indicate left or right. Within the lane, the display uses horizontal bars (-) to show your relative position in the lane. The display also shows the distance (in meters) to the next waypoint.



## Adding Value through Options

When evaluating the GSM-19 as a solution for your geophysical application, we recommend considering the complete range of options described below. These options can be added at time of original purchase or later to expand capabilities as your needs change or grow.

Our approach with options is to provide you with an expandable set of building blocks:

- \* **Gradiometer**
- \* **Walking- Fast Magnetometer / Gradiometer**
- \* **VLF (3 channel)**
- \* **GPS (built-in and external)**

## GSM-19G Gradiometer Option

The GSM-19 gradiometer is a versatile, entry level system that can be upgraded to a full-featured "Walking" unit (model GSM-19WG) in future.

The GSM-19G configuration comprises two sensors and a "Standard" console that reads data to a maximum of 1 reading every three seconds.



An important GSM-19 design feature is that its gradiometer sensors measure the two magnetic fields concurrently to avoid any temporal variations that could distort gradiometer readings. Other features, such as single-button data recording, are included for operator ease-of-use.

## GSM-19W / WG "Walking" Magnetometer / Gradiometer Option

The GSM-19 was the first magnetometer to incorporate the innovative "Walking" option which enables the acquisition of nearly continuous data on survey lines. Since its introduction, the GSM-19W / GSM-19WG have become one of the most popular magnetic instruments in the world.

Similar to an airborne survey in principle, the system records data at discrete time intervals (up to 5 readings per second) as the instrument is carried along the line.

At each survey picket (fiducial), the operator touches a designated key. The system automatically assigns a picket coordinate to the reading and linearly interpolates the coordinates of all intervening readings (following survey completion during post-processing).

A main benefit is that the high sample density improves definition of geologic structures and other targets (UXO, archeological relics, drums, etc.).

It also increases survey efficiency because the operator can record data almost continuously. Another productivity feature is the instantaneous recording of data at pickets. This is a basic difference between the "Walking" version and the GSM-19 / GSM-19G (the "Standard" mode version which requires 3 seconds to obtain a reading each time the measurement key is pressed).

## GSM-19 "Hands-Free" Backpack Option

The "Walking" Magnetometer and Gradiometer can be configured with an optional backpack-supported sensor. The backpack is uniquely constructed - permitting measurement of total field or gradient with both hands free.

This option provides greater versatility and flexibility, which is particularly valuable for high-productivity surveys or in rough terrain.

## GSM-19GV "VLF" Option

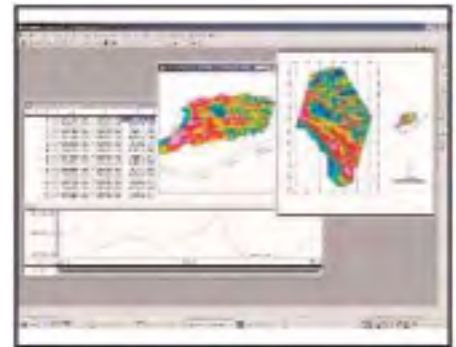
With its omnidirectional VLF option, up to 3 stations of VLF data can be acquired without orienting. Moreover, the operator is able to record both magnetic and VLF data with a single stroke on the keypad.

## 3rd Party Software - A One-Stop Solution for Your Potential Field Needs

As part of its complete solution approach, Terraplus offers a selection of proven software packages. These packages let you take data from the field and quality control stage right through to final map preparation and modeling.

Choose from the following packages:

- \* **Contouring and 3D Surface Mapping**
- \* **Geophysical Data Processing & Analysis**
- \* **Semi-Automated Magnetic Modeling**
- \* **Visualization and Modeling / Inversion**



Geophysical Data Processing and Analysis from Geosoft Inc.



GSM-19 with internal GPS board. Small receiver attaches above sensor

## Version 7 -- New Milestones in Magnetometer Technology

The recent release of v7.0 of the GSM-19 system provides many examples of the ways in which we continue to advance magnetics technologies for our customers.

### Enhanced data quality:

- \* 25% improvement in sensitivity (new frequency counting algorithm)
- \* new intelligent spike-free algorithms (in comparison with other manufacturers, the GSM-19 does not apply smoothing or filtering to achieve high data quality)

### Improved operational efficiency:

- \* Enhanced positioning (GPS engine with optional integrated / external GPS and real-time navigation!)
- \* 16 times increase in memory to 32 Mbytes
- \* 1000 times improvement in processing and display speed (RISC microprocessor with 32-bit data bus) 2 times faster digital data link (115 kBaud through RS-232)

### Innovative technologies:

- \* Battery conservation and survey flexibility (base station scheduling option with 3 modes - daily, flexible and immediate start)
- \* Survey pre-planning (up to 1000 programmable waypoints that can be entered directly or downloaded from PC for greater efficiency)
- \* Efficient GPS synchronization of field and base units to Universal Time (UTC)
- \* Cost saving with firmware upgrades that deliver new capabilities via Internet

## More About the Overhauser System

In a **standard Proton magnetometer**, current is passed through a coil wound around a sensor containing a hydrogen-rich fluid. The auxiliary field created by the coil (>100 Gauss) polarizes the protons in the liquid to a higher thermal equilibrium.

When the current, and hence the field, is terminated, polarized protons precess in the Earth's field and decay exponentially until they return to steady state. This process generates precession signals that can be measured as described below.

**Overhauser magnetometers** use a more efficient method that combines electron-proton coupling and an electron-rich liquid (containing unbound electrons in a solvent containing a free radical). An RF magnetic field -- that corresponds to a specific energy level transition -- stimulates the unbound electrons.

Instead of releasing this energy as emitted radiation, the unbound electrons transfer it to the protons in the solvent. The resulting polarization is much larger, leading to stronger precession signals.

Both Overhauser and proton precession, measure the scalar value of the magnetic field based on the proportionality of precession frequency and magnetic flux density (which is linear and known to a high degree of accuracy). Measurement quality is also calculated using signal amplitude and its decay characteristics. Values are averaged over the sampling period and recorded.

With minor modifications (i.e. addition of a small auxiliary magnetic flux density while polarizing), it can also be adapted for high sensitivity readings in low magnetic fields. (ex. for equatorial work)

## GPS - Positioning You for Effective Decision Making



The use of Global Positioning Satellite (GPS) technology is increasing in earth science disciplines due to the ability to make better decisions in locating and following up on anomalies, and in improving survey cost effectiveness and time management.

Examples of applications include: Surveying in remote locations with no grid system (for example, in the high Arctic for diamond exploration)

- \* **High resolution exploration mapping**
- \* **High productivity ferrous ordnance (UXO) detection**
- \* **Ground portable magnetic and gradient surveying for environmental and engineering applications**
- \* **Base station monitoring for observing diurnal magnetic activity and disturbances with integrated GPS time**

The GSM-19 addresses customer requests for GPS and high-resolution Differential GPS (DGPS) through both the industry's only built-in GPS (as well as external GPS).

Built-in GPS offers many advantages such as minimizing weight and removing bulky components that can be damaged through normal surveying. The following table summarizes GPS options.

## GPS Options:

Description	Range	Services
GPS Option A		Time Reception only
GPS Option B	<1.5m	DGPS*
GPS Option C	<1.0m	Ag 114 DGPS*, OmniStar
GPS Option D	<0.7m <1.2m <1.0M	CDGPS, DGPS *, OmniStar.
Output		
Time, Lat / Long, UTM, Elevation and number of Satellites		
*DGPS with SBAS (WASS/EGNOS/MSAS)		

## Key System Components

Key components that differentiate the GSM-19 from other systems on the market include the sensor and data acquisition console. Specifications for components are provided on the right side of this page.

## Sensor Technology

Overhauser sensors represent a proprietary innovation that combines advances in electronics design and quantum magnetometer chemistry.

Electronically, the detection assembly includes dual pick-up coils connected in series opposition to suppress far-source electrical interference, such as atmospheric noise. Chemically, the sensor head houses a proprietary hydrogen-rich liquid solvent with free electrons (free radicals) added to increase the signal intensity under RF polarization.

From a physical perspective, the sensor is a small size, light-weight assembly that houses the Overhauser detection system and fluid. A rugged plastic housing protects the internal components during operation and transport.

All sensor components are designed from carefully screened non-magnetic materials to assist in maximization of signal-to-noise. Heading errors are also minimized by ensuring that there are no magnetic inclusions or other defects that could result in variable readings for different orientations of the sensor.

Optional omni-directional sensors are available for operating in regions where the magnetic field is near-horizontal (i.e. equatorial regions). These sensors maximize signal strength regardless of field direction.

## Data Acquisition Console Technology

Console technology comprises an external keypad / display interface with internal firmware for frequency counting, system control and data storage / retrieval. For operator convenience, the display provides both monochrome text as well as real-time profile data with an easy to use interactive menu for performing all survey functions.

The firmware provides the convenience of upgrades over the Internet via its software. The benefit is that instrumentation can be enhanced with the latest technology without returning the system to us -- resulting in both timely implementation of updates and reduced shipping / servicing costs.

## Performance

Sensitivity:	0.022 nT / vHz@1Hz
Resolution:	0.01 nT
Absolute Accuracy:	+/- 0.1 nT
Dynamic Range:	15,000 to 120,000 nT
Gradient Tolerance:	> 10,000 nT/m
Sampling Rate:	60+, 3, 2, 1, 0.5, 0.2 sec
Operating Temp:	-40C to +55C

## Operating Modes

### Manual:

Coordinates, time, date and reading stored automatically at minimum 3 second interval.

### Base Station:

Time, date and reading stored at 3 to 60 second intervals.

### Remote Control:

Optional remote control using RS-232 interface.

### Input / Output:

RS-232 or analog (optional) output using 6-pin weatherproof connector

## Storage - 32Mbytes (# of Readings)

Mobile:	1,465,623
Base Station:	5,373,951
Gradiometer:	1,240,142
Walking Magnetometer:	2,686,975

## Dimensions

Console:	223 x 69 x 240 mm
Sensor:	175 x 75mm diameter cylinder

## Weights

Console:	2.1 kg
Sensor and Staff Assembly:	1.0 kg

## Standard Components

GSM-19 console, GEMLinkW software, batteries, harness, charger, sensor with cable, RS-232/USB cable, staff, instruction manual and shipping case.

## Optional VLF

Frequency Range:	Up to 3 stations between 15 to 30.0 kHz
Parameters:	Vertical in-phase and out-of phase components as % of total field. 2 components of the horizontal field amplitude and total field strength in pT
Resolution:	0.1% of total field

## **Appendix 7**

Induced Polarization Survey Logistics Report

*Peter E. Walcott and Associates Ltd.*

**A LOGISTICS REPORT**

**ON**

**INDUCED POLARIZATION SURVEYING**

**NORTH ROK PROPERTY  
ISKUT AREA, BRITISH COLUMBIA  
LIARD MINING DIVISION  
57 ° 49'N, 129 ° 56'W**

**Claims Surveyed**

**633347,633348,633350**

**NTS 104H/13**

**for**

**COLORADO RESOURCES LTD.**

**Kelowna, British Columbia**

**by**

**PETER E. WALCOTT & ASSOCIATES LIMITED**

**Coquitlam, British Columbia  
February 2013**

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### APPENDIX

COST OF SURVEY  
PERSONNEL EMPLOYED ON SURVEY

### ACCOMANPANYING MAPS

Line Location and Claim Map	1:10,000
Pseudo sections – 83+00N, 85+00N, 87+00N, 89+00N, 91+00N,	1:10,000
Contours of Apparent Chargeability/Resistivity – N=3	1:10,000

## **INTRODUCTION.**

Between October 29<sup>th</sup>, and November 3<sup>rd</sup>, 2012, Peter E. Walcott & Associates Limited undertook induced polarization (IP) surveying for Colorado Resources Ltd. over its North Rok Property, British Columbia.

The surveying was conducted utilizing the pole-dipole technique measuring the 1<sup>st</sup> to 6<sup>th</sup> separations utilizing a 100 metre dipole separation.

6 east-west traverses were completed for a total of some 10.6 kilometres of induced polarization surveying completed.

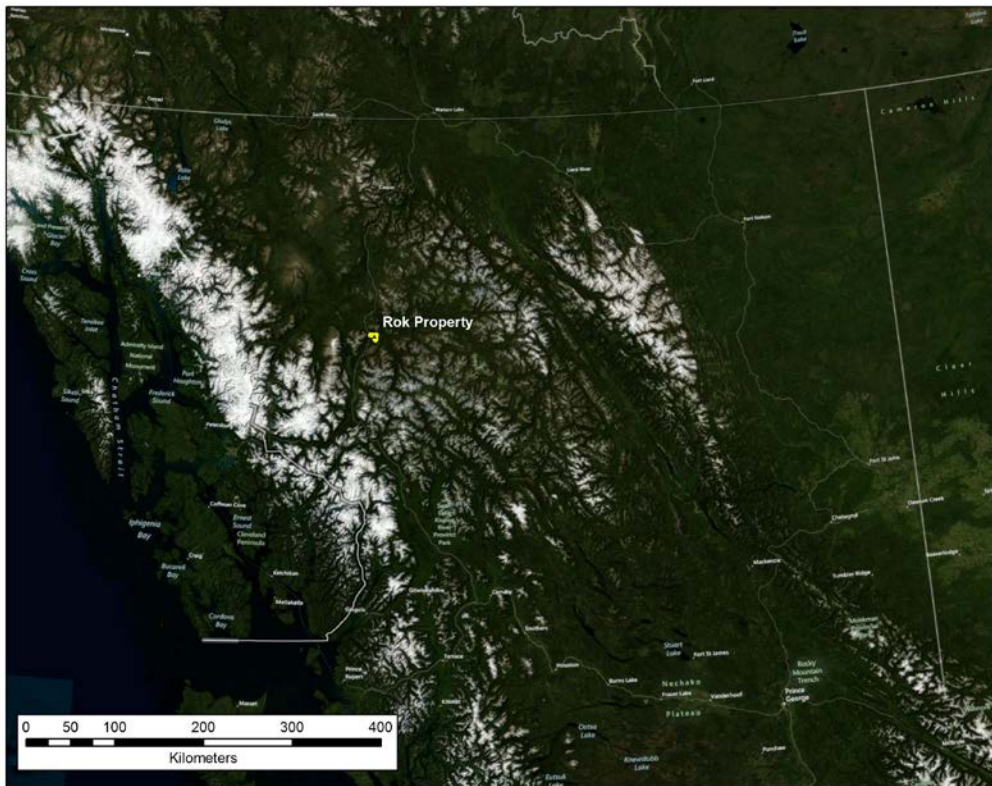
Survey lines were positioned and established by line cutting crews under the direction of Colorado Resources Ltd.

In addition to induced polarization surveying, horizontal positions of the line stations were measured a Garmin handheld GPS unit.

## **PROPERTY LOCATION AND ACCESS**

The North Rok property is situated some 2 kilometres south-east of the community of Iskut, British Columbia.

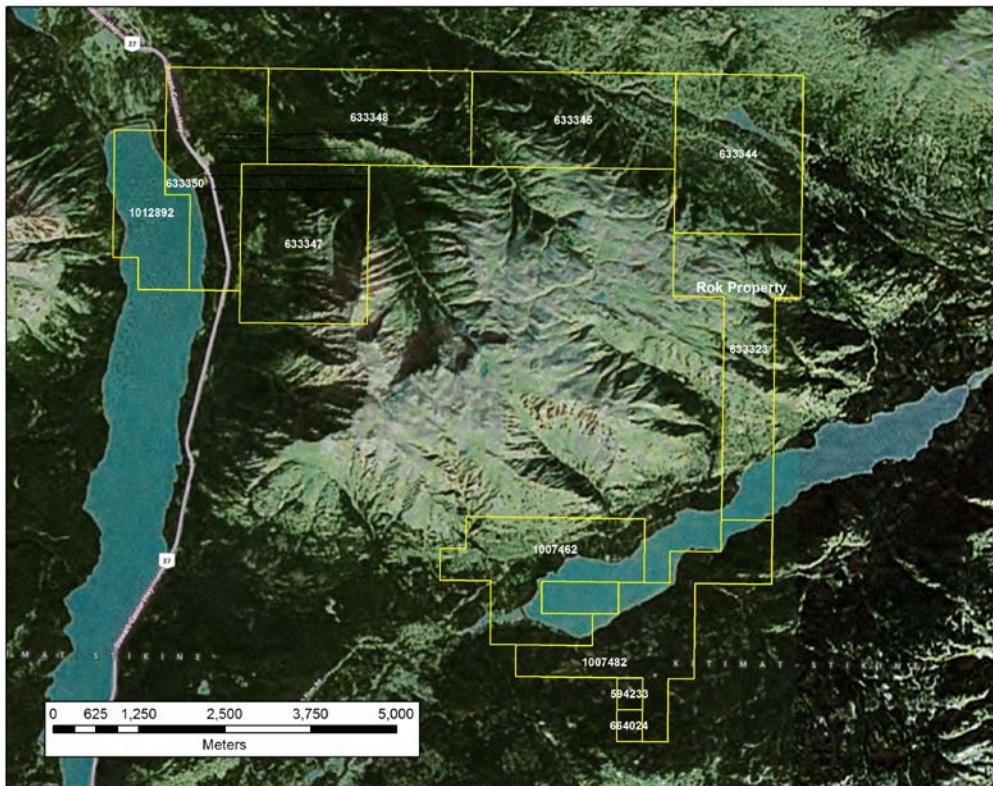
Access to the survey area, was then gained via truck on Highway 37 and then by foot to the survey area.



Property Location Map

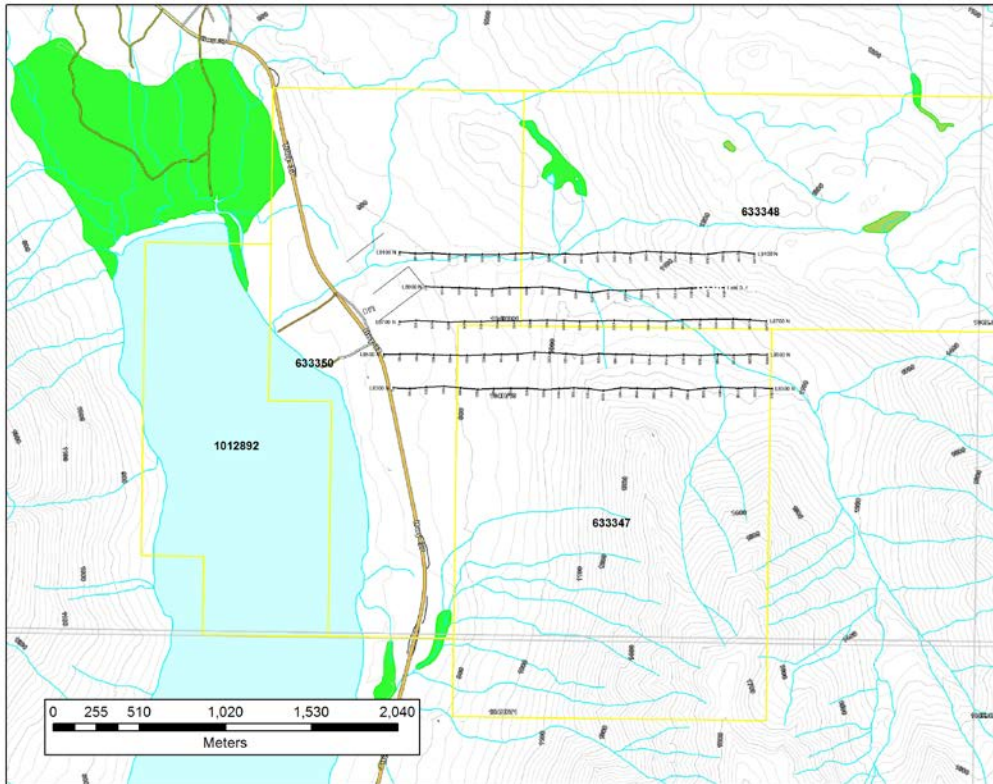


**PROPERTY LOCATION AND ACCESS con't**



Claim Location Map

**PROPERTY LOCATION AND ACCESS con't**



Claim and Line Location Map

## **SURVEY SPECIFICATIONS.**

### *The Induced Polarization Survey.*

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Instrumentation GDD of Quebec, Canada.

The system consists basically of three units, a receiver (GDD), transmitter (GDD) and a motor generator (Honda). The transmitter, which provides a maximum of 5.0 kw d.c. to the ground, obtains its power from a 7.5 kw 60 c.p.s. alternator driven by a Honda 14 h.p. gasoline engine. The cycling rate of the transmitter is 2 seconds “current-on” and 2 seconds “current-off” with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C<sub>1</sub> and C<sub>2</sub>, the primary voltages (V) appearing between any two potential electrodes, P<sub>1</sub> through P<sub>5</sub>, during the “current-on” part of the cycle, and the apparent chargeability, (M<sub>a</sub>) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity ( $\rho_a$ ) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The majoring of the surveying was carried out using the “pole-dipole” method of surveying. In this method the current electrode, C<sub>1</sub>, and the potential electrodes, P<sub>1</sub> through P<sub>5</sub>, are moved in unison

## **SURVEY SPECIFICATIONS cont'd**

along the survey lines at a spacing of “a” (the dipole) apart, while the second current electrode,  $C_2$ , is kept constant at “infinity”. The distance, “na” between  $C_1$  and the nearest potential electrode generally controls the depth to be explored by the particular separation, “n”, traverse. On this survey a 100 metre dipole separation was utilized.

On this survey a total of some 10.6 kilometres of survey traverses were completed.

### **Horizontal control.**

The horizontal positions of the stations were recorded using a Garmin GPSmap 60CSx.

### **Data Presentation.**

The data are presented as individual pseudo section plots of apparent resistivity and apparent chargeability at a scale of 1:10,000 generated using Geosoft Oasis Montaj.

Plan maps of the third separation of apparent chargeability and resistivity are also presented.

**APPENDIX**

**Peter E. Walcott & Associates Limited  
Geophysical Services**

**Induced Polarization Surveying  
Colorado Resources Ltd.  
North Rok Project**

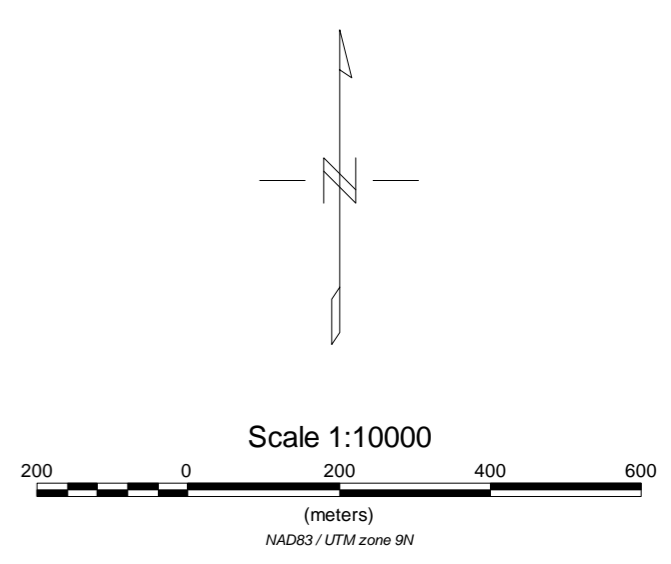
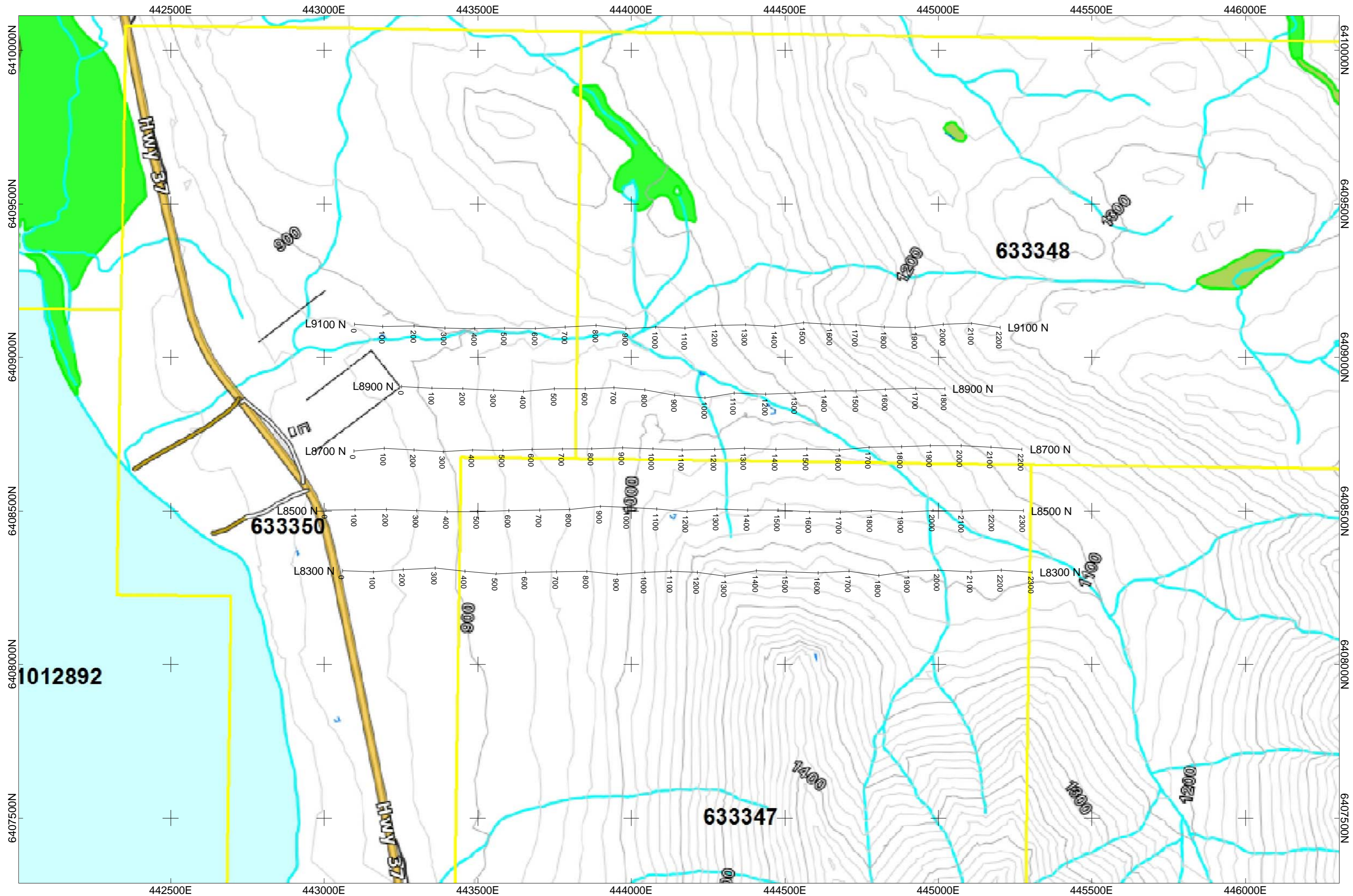
## **COST OF SURVEY**

Peter E. Walcott & Associates Limited undertook the survey on a daily basis providing a four man crew, IP equipment, GPS, altimeters and a 4x4 truck at \$2945.00 per day.

Minor reporting was undertaken for \$300.00, so that the total cost of services provided was \$12,080.00

**PERSONNEL EMPLOYED ON SURVEY.**

<b>Name</b>	<b>Occupation</b>	<b>Address</b>	<b>Dates</b>
Peter E. Walcott	Geophysicist	111-17 Fawcett Rd. Coquitlam, B.C. V3K 6V2	Feb 24th, 2013
Alexander Walcott	"	"	Feb 24th-25th, 2013
M. Magee	Geophysical Operator	"	Oct 29th-Nov 3,2012
J. Adams	"	"	"
M. Rodrigue	Geophysical Assistant	"	"
D. Minskip	"	"	"

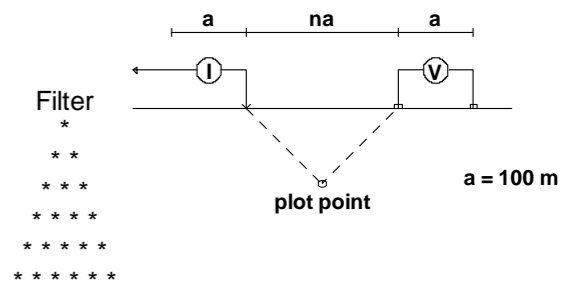


<b>COLORADO RESOURCES LTD.</b>
<b>CLAIM AND LINE LOCATION MAP</b>
NORTH ROK PROPERTY ISKUT AREA, BRITISH COLUMBIA
<b>PETER E. WALCOTT &amp; ASSOCIATES LIMITED</b>



83+00 N

Pole-Dipole Array

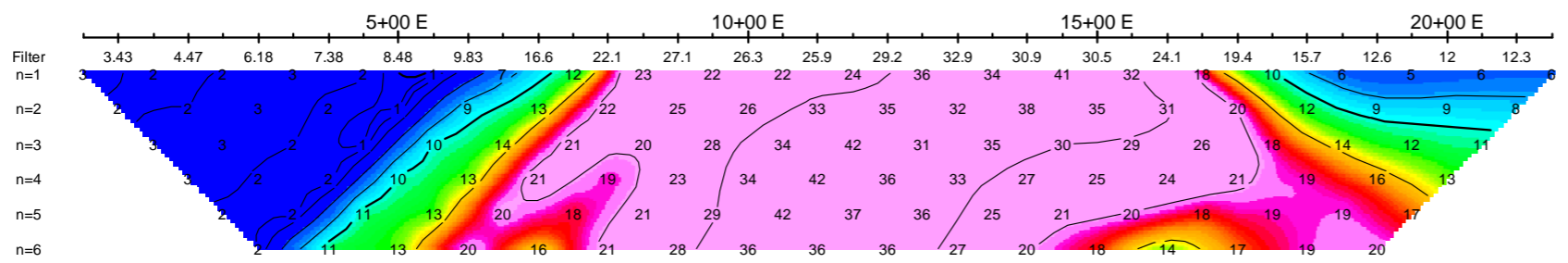


Instruments: GDD 5KW Tx, GDD GRX-8 Rx

Frequency: 0.125 Hz.  
Operators: M.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

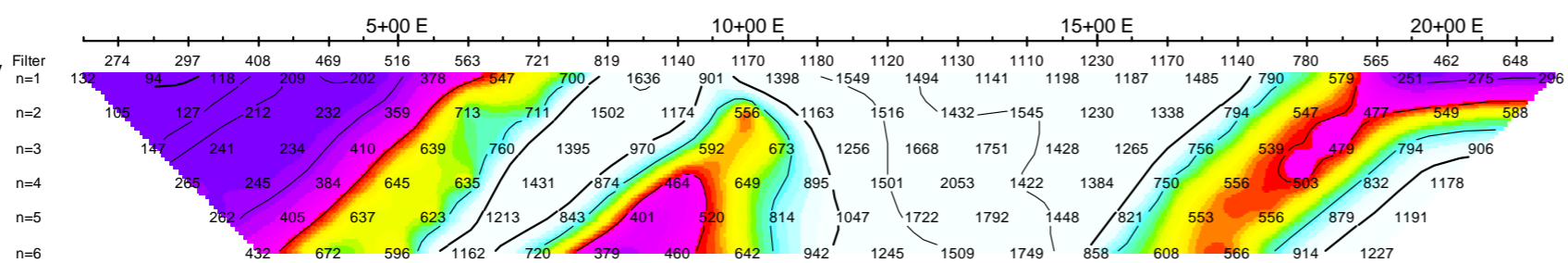
Average IP  
mV/V



Average IP  
mV/V

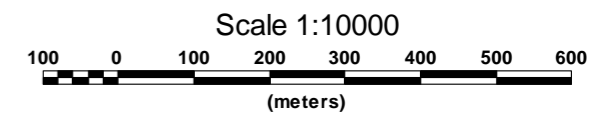
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Calculated Resistivity  
Ohm\*m



Calculated Resistivity  
Ohm\*m

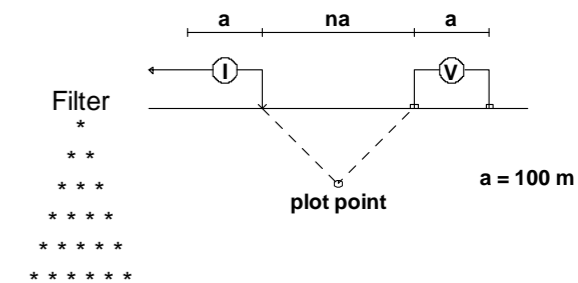
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



COLORADO RESOURCES LTD.  
INDUCED POLARIZATION SURVEY  
NORTH ROK PROPERTY  
BRITISH COLUMBIA  
Date: OCTOBER 2012  
PETER E. WALCOTT & ASSOCIATES LIMITED

# 85+00 N

## Pole-Dipole Array

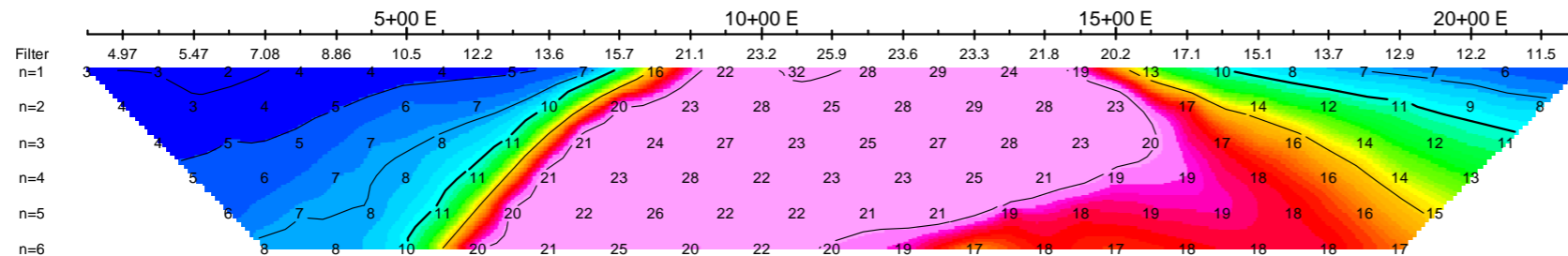


Instruments: GDD 5KW Tx, GDD GRX-8 Rx

Frequency: 0.125 Hz.  
Operators: M.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

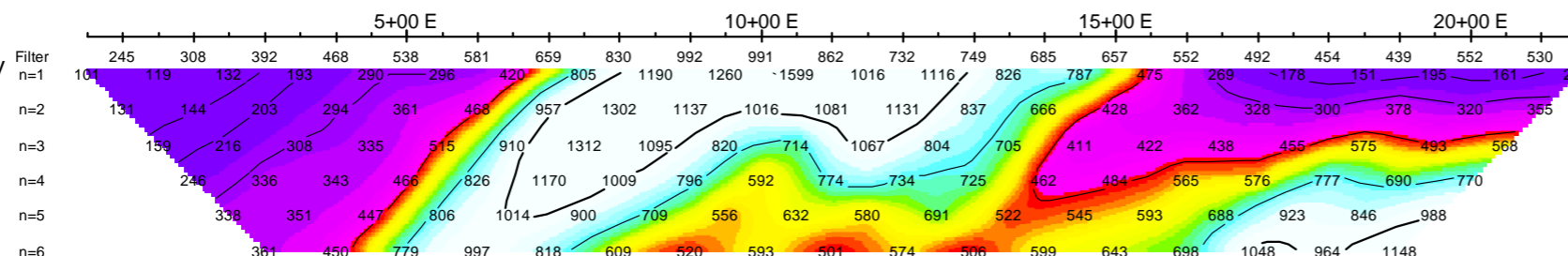
Average IP  
mV/V



Average IP  
mV/V

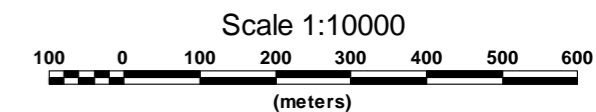
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Calculated Resistivity  
Ohm\*m



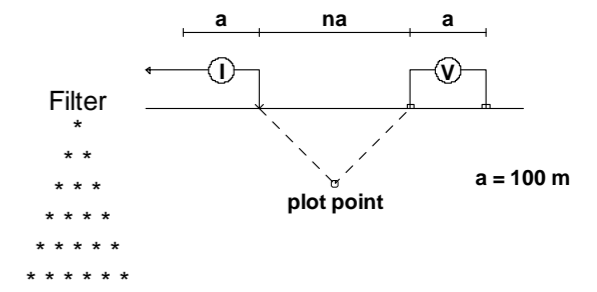
Calculated Resistivity  
Ohm\*m

Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



87+00 N

Pole-Dipole Array

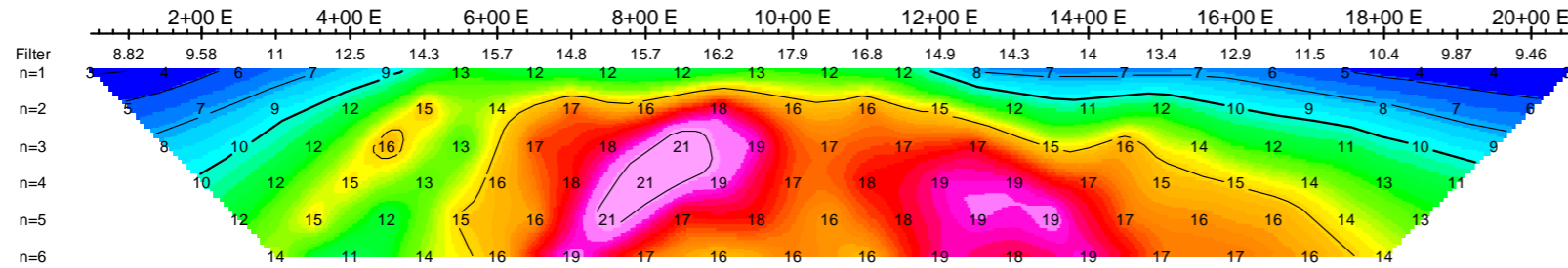


Instruments: GDD 5KW Tx, GDD GRX-8 Rx

Frequency: 0.125 Hz.  
Operators: M.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

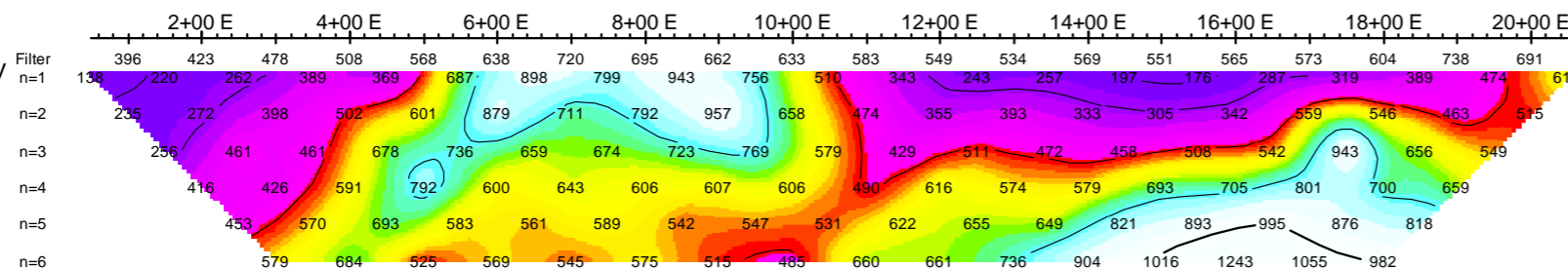
Average IP  
mV/V



Average IP  
mV/V

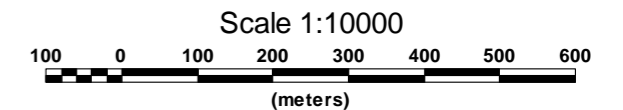
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Calculated Resistivity  
Ohm\*m



Calculated Resistivity  
Ohm\*m

Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



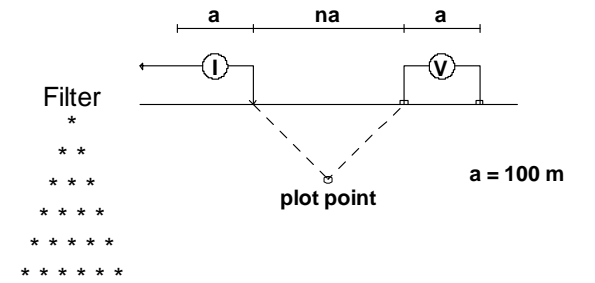
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NORTH ROK PROPERTY  
BRITISH COLUMBIA

Date: OCTOBER 2012

PETER E. WALCOTT & ASSOCIATES LIMITED

# 89+00 N

## Pole-Dipole Array

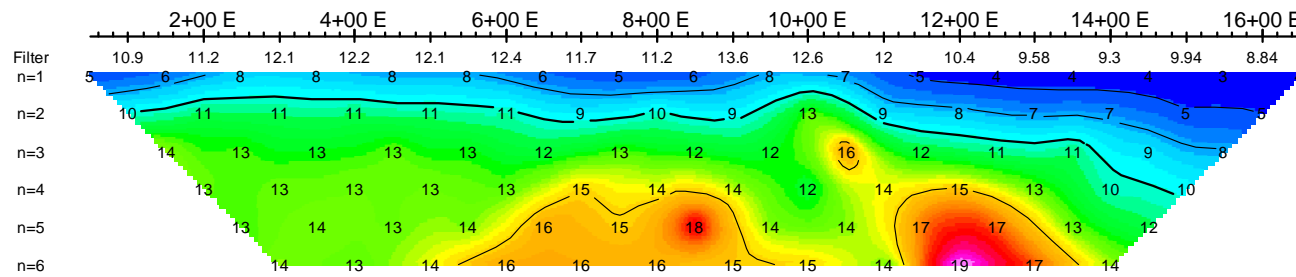


Instruments: GDD 5KW Tx, GDD GRX-8 Rx

Frequency: 0.125 Hz.  
Operators: M.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

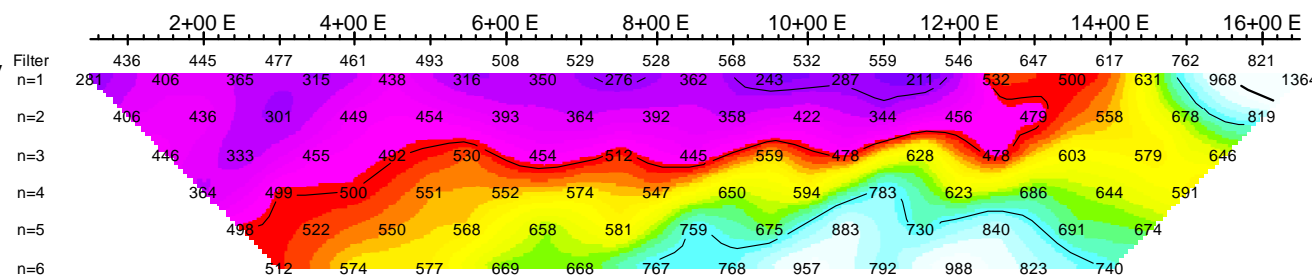
Average IP  
mV/V



Average IP  
mV/V

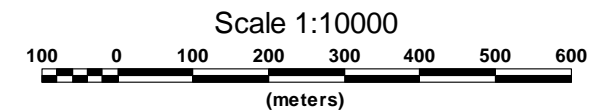
Filter n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Calculated Resistivity  
Ohm\*m



Calculated Resistivity  
Ohm\*m

Filter n=1  
n=2  
n=3  
n=4  
n=5  
n=6



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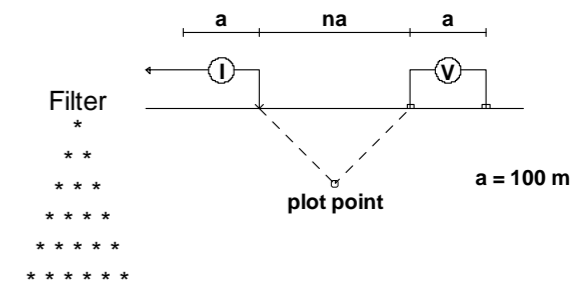
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NORTH ROK PROPERTY  
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91+00 N

Pole-Dipole Array

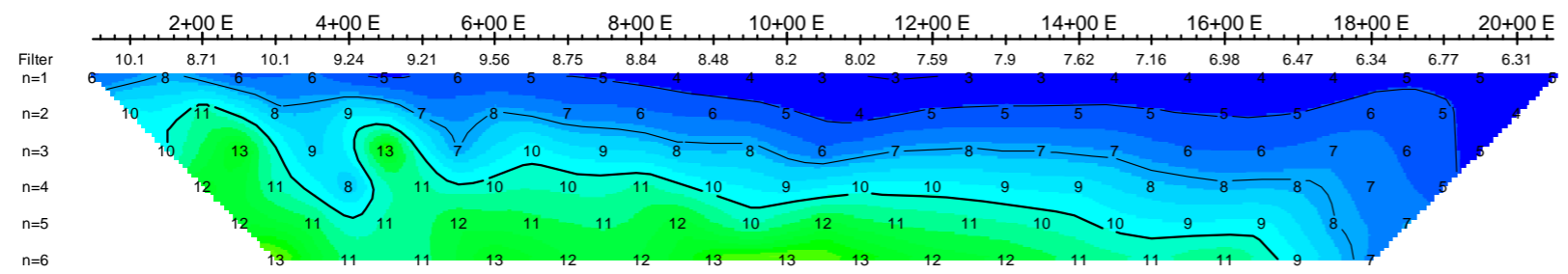


Instruments: GDD 5KW Tx, GDD GRX-8 Rx

Frequency: 0.125 Hz.  
Operators: M.M.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

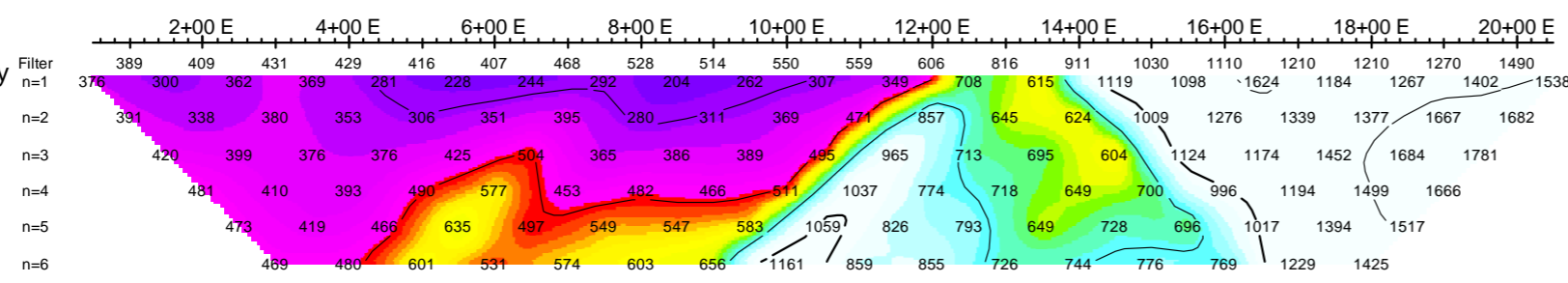
Average IP  
mV/V



Average IP  
mV/V

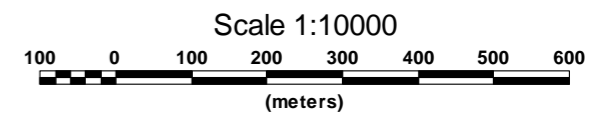
Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6

Calculated Resistivity  
Ohm\*m

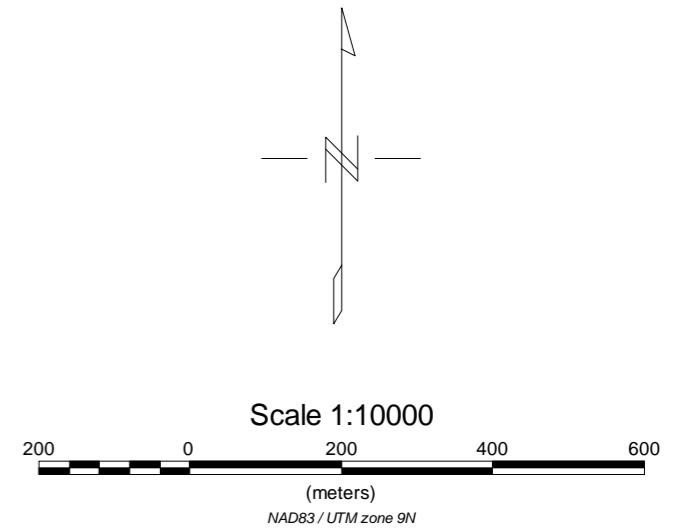
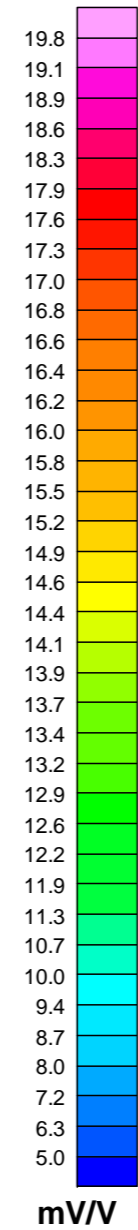
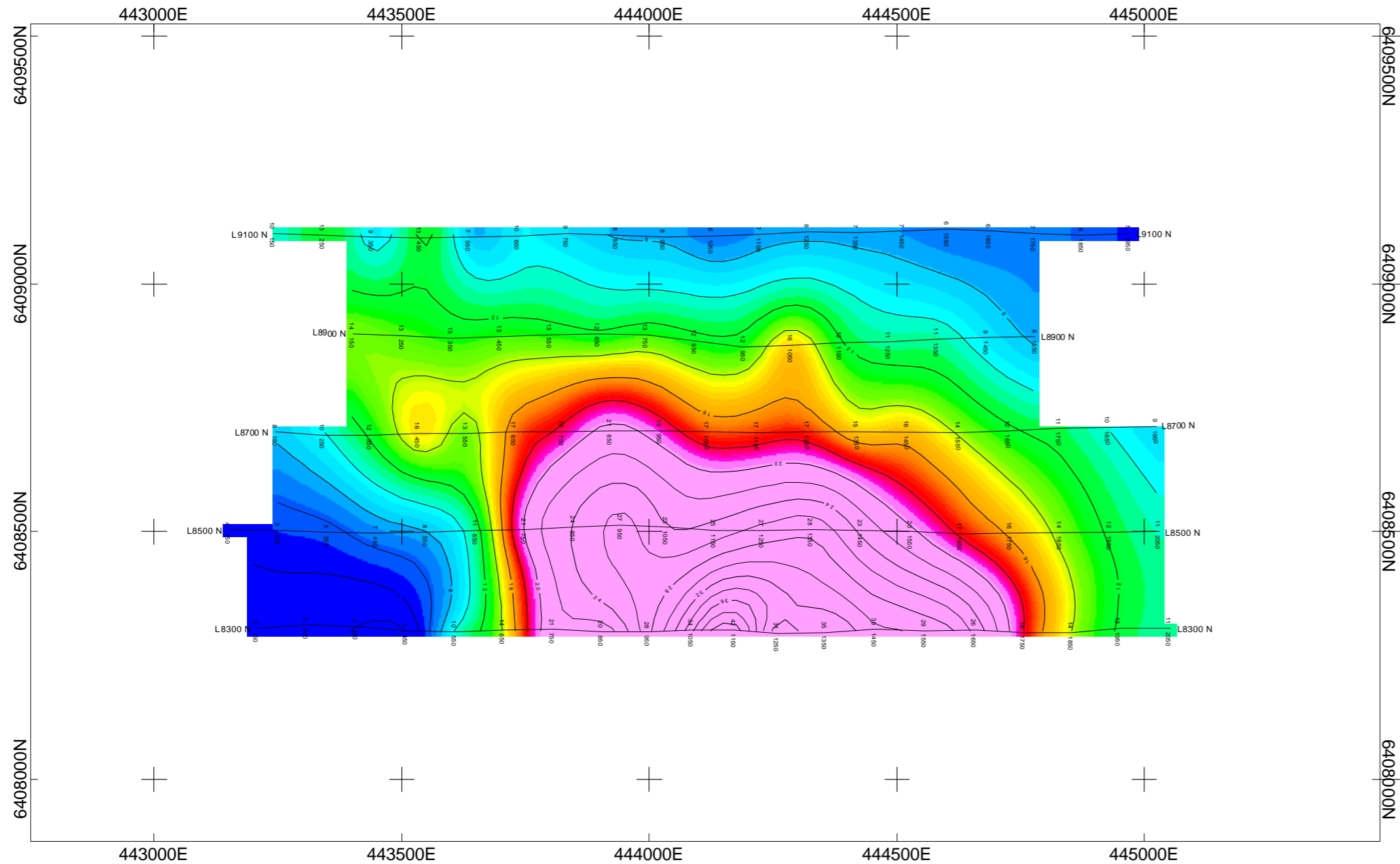


Calculated Resistivity  
Ohm\*m

Filter  
n=1  
n=2  
n=3  
n=4  
n=5  
n=6



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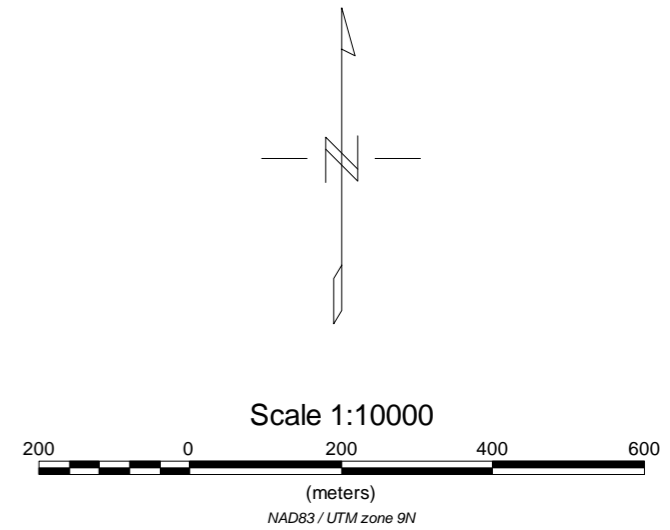
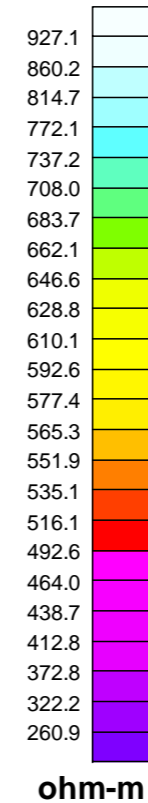
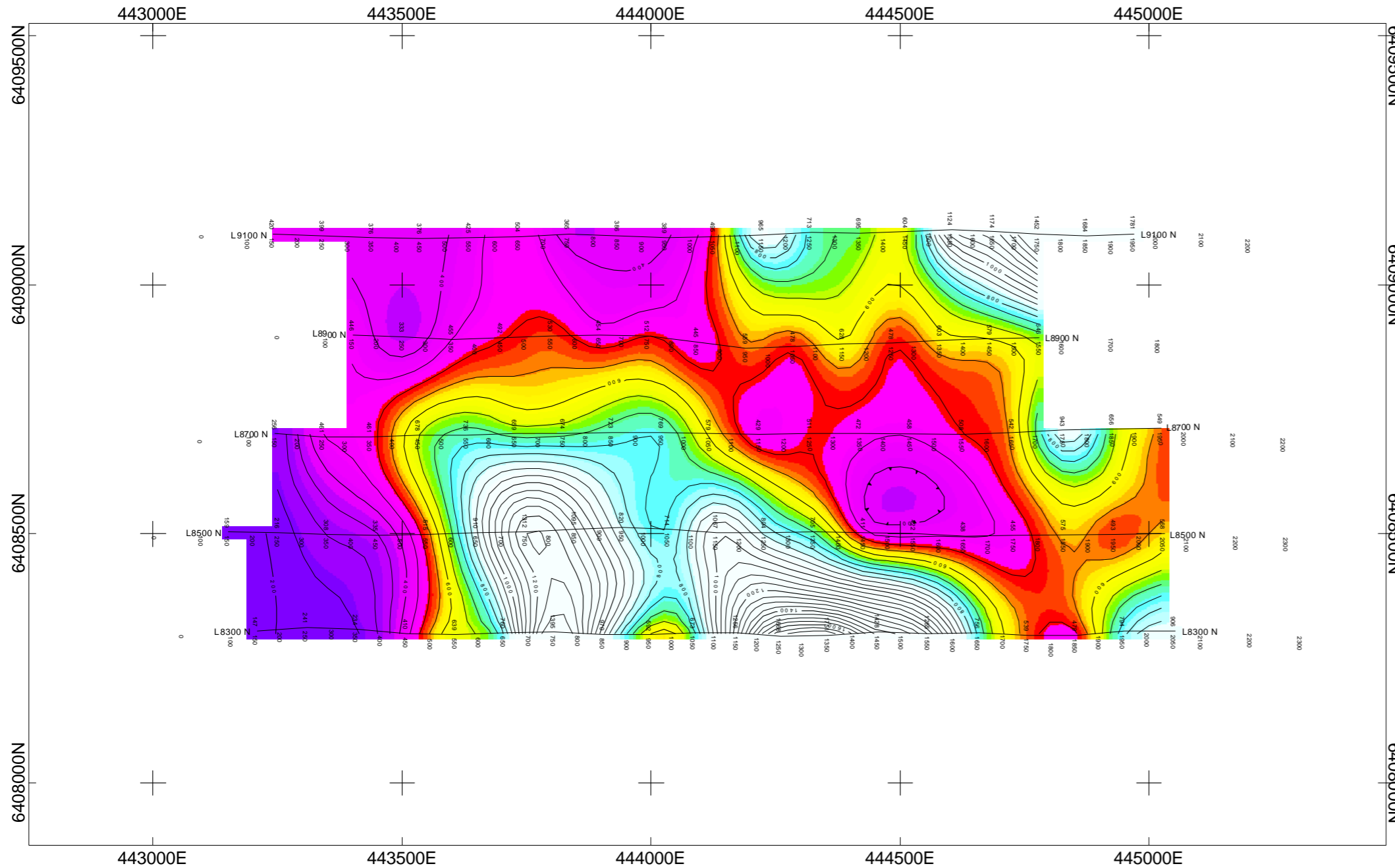


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**CLAIM AND LINE LOCATION MAP**

NORTH ROK PROPERTY  
ISKUT AREA,  
BRITISH COLUMBIA

**PETER E. WALCOTT & ASSOCIATES LIMITED**



**COLORADO RESOURCES LTD.**  
**INDUCED POLARIZATION SURVEY**  
**CONTOURS OF APPARENT RESISTIVITY**  
**N=3**  
 NORTH ROK PROPERTY  
 ISKUT AREA,  
 BRITISH COLUMBIA  
 OCTOBER 2012  
**PETER E. WALCOTT & ASSOCIATES LIMITED**