BRITISH COLUMBIA
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**Ministry of Energy, Mines & Petroleum Resources**
Mining & Minerals Division
BC Geological Survey

**Assessment Report**
**Title Page and Summary**

**TYPE OF REPORT [type of survey(s)]:** Geochemical, geophysical

**TOTAL COST:** 186,346.94

**AUTHOR(S):** Christopher R. Paul

**SIGNATURE(S):**

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):**

**YEAR OF WORK:** 2016

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):**

**PROPERTY NAME:** Hank

**CLAIM NAME(S) (on which the work was done):** HANK 1 (222248), HANK 2 (222249), HANK 3 (222250), HANK 4 (222389)

**COMMODITIES SOUGHT:** Gold, Silver, Copper, Lead, Zinc

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** 104G 107

**MINING DIVISION:** Liard

**NTS/BCGS:** 104G02, 104G01

**LATITUDE:** 57 ° 13 ' 00 " **LONGITUDE:** 130 ° 30 ' 00 " (at centre of work)

**OWNER(S):**
1) Lac Properties Inc
2)

**MAILING ADDRESS:**
TD Canada Trust Tower, 3700-161 Bay Street, PO Box 211
Toronto, Ontario, Canada, M5J 2S1

**OPERATOR(S) [who paid for the work]:**
1) Golden Ridge Resources Ltd.
2)

**MAILING ADDRESS:**
110-2300 Carrington Road
West Kelowna, BC, Canada, V4T 2N6

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**
Low sulphidation, Epithermal Gold, Silver, Copper, Lead, Zinc, Alkalic, Porphyry, Golden Triangle, Barrick Gold, Lac Minerals, Stikine Terrane, Stikinia, Stuhini, Hazelton, Unconformity, Carbonate - base metal - Au, Au, Ag, Cu, Pb, Zn, high grade, quartz-calcite, veins, colloform, disseminated, anomaly, bonanza, montmorrilonite, kaolinite, illite, dickite, alunite, sericite, silica, clay, muscovite, chlorite, felsite, pyrite, tetrahedrite, breccia, mineralization

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** 08546, 12098, 13594, 18721, 19523, 20412, 21205, 21287, 21829, 22577, 22731, 22747, 35341

Next Page

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
| --- | --- | --- | --- |
| **GEOLOGICAL (scale, area)** | | | |
| Ground, mapping | | | |
| Photo interpretation | | | |
| **GEOPHYSICAL (line-kilometres)** | | | |
| Ground | | | |
| Magnetic | | | |
| Electromagnetic | | | |
| Induced Polarization | 12 line kilometers | 222248, 222249, 222250, 222389 | $112,168.16 |
| Radiometric | | | |
| Seismic | | | |
| Other | | | |
| Airborne | | | |
| **GEOCHEMICAL (number of samples analysed for...)** | | | |
| Soil | 367 samples | 222248, 222249, 222389 | $56,084.09 |
| Silt | | | |
| Rock | 49 samples | 222248, 222249, 222389 | $18,694.69 |
| Other | | | |
| **DRILLING (total metres; number of holes, size)** | | | |
| Core | | | |
| Non-core | | | |
| **RELATED TECHNICAL** | | | |
| Sampling/assaying | | | |
| Petrographic | | | |
| Mineralographic | | | |
| Metallurgic | | | |
| **PROSPECTING (scale, area)** | | | |
| **PREPARATORY / PHYSICAL** | | | |
| Line/grid (kilometres) | | | |
| Topographic/Photogrammetric (scale, area) | | | |
| Legal surveys (scale, area) | | | |
| Road, local access (kilometres)/trail | | | |
| Trench (metres) | | | |
| Underground dev. (metres) | | | |
| Other | | | |
| | | TOTAL COST: | $186,946..94 |

Print Form

# 2016 GEOCHEMICAL AND GEOPHYSICAL REPORT

**ON THE**

# HANK PROPERTY

**LOCATED IN THE LIARD MINING DIVISION, BRITISH COLUMBIA**
**NTS: 104G02, 104G01**

**PREPARED FOR:**
**GOLDEN RIDGE RESOURCES LTD.**
**110-2300 Carrington Road**
**West Kelowna, BC**
**V4T 2N6**

**CENTERED AT APPROXIMATELY:**
**57°13' N Latitude**
**130°30' W Longitude**
**409,400 mE; 6,342,500 mN**
**UTM NAD 83, Zone 9N**

**AUTHOR: Chris Paul, B.Sc., Geology**

**Date: January 4, 2017**

RIDGELINE EXPLORATION SERVICES INC.
302-1620 West 8th Ave, Vancouver, BC, V6J 1V4
Email: info@RidgelineExploration.com
www.RidgelineExploration.com

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# 1. SUMMARY

The Hank Property (the “Property”) is located in the Liard Mining Division, approximately 140 kilometers north of the town of Stewart, BC. The property is centered at approximately 57˚13' N latitude and 130˚30' W longitude on NTS map sheets 104G/01 and 104G/02. The Property is comprised of four modified grid (“four-post”) mineral claims totaling 1700 hectares. Access is via vehicle up Highway #37, which passes 15 km to the east of the claims, and then by helicopter to the property from a staging point at the Burrage airstrip immediately off Highway #37. Historic drilling by Lac Minerals Ltd. in the 1980’s defined a small, non-NI 43-101 compliant gold resource of 226,775 tonnes grading 4.4 g/t Au in the South zone (aka “200 pit”) and 226,775 tonnes grading 2.3 g/t Au in the North zone (aka “440 pit”) (Lac Minerals Ltd. Prospectus 1987, as quoted in BC MINFILE 104G 107). Homestake Canada Ltd. later reported a (non-NI 43-101 compliant) “drill indicated geologic resource” of 245,000 tonnes grading 4.0 g/t Au in the “200 pit” (South zone) and 218,000 tonnes grading 2.0 g/t Au in the “440 pit” (North zone) (McPherson, 1993; quoting Collins, 1990). Golden Ridge Resource Ltd. has optioned the Property from Barrick Gold Corporation and may earn up to 100 percent through a work commitment, subject to certain back-in provisions.

The Property is located on the western margin of the Intermontane tectonic belt, and the eastern margin of the Skeena Fold Belt within the Canadian Cordillera. It is within the northwestern portion of the Stikine terrane, which is bounded to the west by the Coast Plutonic Complex and by volcanic and sedimentary rocks of the Cache Creek and Quesnel terranes to the east (Kaip, 1997).

On the Hank Property, high grade gold and silver mineralization is hosted in sulfide-bearing colloform banded quartz-calcite veins cutting clay-sericite-pyrite altered volcanic rocks. The high-grade vein-style mineralization is bracketed by broader zones of lower grade Au and Ag hosted within the altered volcanic rocks. Seven broad alteration zones have been identified, and gold mineralization has been intersected in several areas.  Based on the vein mineralogy, alteration and other characteristics, the Hank mineralization fits in the “Carbonate – Base-Metal – Au” epithermal class of deposits.

Ridgeline Exploration Services Inc. was contracted to conduct a program of rock and soil geochemical sampling on the Property from August 25 to September 1, 2016. Concurrent with the geochemical program, Peter E. Walcott & Associates Limited. was contracted to conduct a deep-seeking 3D IP geophysical survey covering Felsite Hill, the Upper Alteration Zone (UAZ) and the

Lower Alteration Zone (LAZ).

2016 rock sampling confirmed the presence of high grade Au-Ag mineralization on the Property with separate grab samples within the UAZ returning values up to 67 g/t Au and 4790 g/t Ag.

The 2016 soil program extended some of the historical Au- and Ag-in-soil anomalies and defined a new Cu-Au-Ag soil anomaly northwest of Hank Creek. The new anomaly, termed the “Copper zone” trends northeast over a total length of 900m and contains Cu values up to 4780 ppm, Au up to 470 ppb and Ag up to 8.23 ppm. Rusty altered volcanic rocks were noted by soil samplers within the Copper zone, which has a geochemical signature suggestive of alkalic Cu-Au-Ag porphyry mineralization. This is consistent with similar alkalic porphyry discoveries which occur nearby within the Ball Creek drainage system. The Copper zone is coincident with a circular aeromagnetic high anomaly, approximately 450m in diameter and a strong gossan on surface.

The IP survey was designed to test a conceptual target of bonanza-style epithermal gold mineralization which may occur at the intersection of the shallow-dipping UAZ and LAZ mineralized panels with a postulated steep feeder vent, daylighting as a breccia pipe on Felsite Hill. The alteration zones are projected to intersect the inferred feeder vent at approximately 400-450m depth. The IP survey identified several targets associated with known mineralization, along with a deeper feature of interest located proximal to that of the conceptual target.

A $1,700,000 program is proposed for the next phase of work, comprising geological mapping and high-resolution ground magnetic surveying of the Copper Zone, 4 additional IP survey lines to the southwest of the 2016 lines, and 3600m of drilling on the UAZ and LAZ. At least 4 deep (~500m), angled ($-60^{o}$) drillholes are proposed to test the downdip extension of the UAZ and its intersection with the inferred vertical feeder pipe (4 holes, ~2000m). The remaining 1600m should be designated for testing the down-dip extension and continuity of the LAZ. Prior to planning the precise drillhole locations, it is strongly recommended to first compile, digitize and plot all of the existing historic drilling data in 3D geological software in order to refine targets for the next phase of drilling.

## 2. INTRODUCTION

The Hank Property is well located near road and power infrastructure in northwest British Columbia and hosts a small historic resource of low sulphidation epithermal gold mineralization. The property is 1700 hectares in size and terrain is moderate to steep. Access to the property is currently by helicopter from the Burrage airstrip on Highway #37 (17 km), however a winter cat trail also reaches the property.

Mineralization at Hank was originally discovered in 1983 by Lac Minerals. A total of 13,709 m in 104 holes was drilled by Lac and others up to 1993. The property lay dormant until 2014. Golden Ridge Resource Ltd. has optioned the property from Barrick Gold Corporation and may earn up to 100 percent through a work commitment, subject to certain back-in provisions.

This report documents the results of a geochemical and geophysical work program conducted on the Hank Property from August 25 – September 3, 2016. The objectives of the work program were to:

1. Prospect and sample the various mineralized zones defined by previous operators, in order to establish the geological context, controls on mineralization and potential of the untested targets.

2. Expand the existing soil geochemical grid to the borders of the Property and extend the open geochemical anomalies.

3. Conduct a deep-seeking 3D IP survey over the bonanza-style conceptual target of the shallow-dipping UAZ intersecting a postulated feeder vent at depth below Felsite Hill.

The work program confirmed the presence of high grade Au-Ag mineralization hosted in colloform-banded quartz-calcite-tetrahedrite veins as well as lower grade mineralization in clay-sericite-pyrite altered volcanic rocks. Soil sampling extended the historic geochemical Au-Ag anomalies and also identified a new Cu-Au-Ag anomaly, northwest of Hank Creek, which is coincident with a circular aeromagnetic high and may be associated with alkali porphyry style mineralization. The IP survey identified several targets associated with known mineralization, along with a deeper feature of interest located proximal to the conceptual bonanza-style target.

# 3. LOCATION AND ACCESS

The Hank Property is located in the Liard Mining Division in northwestern British Columbia (Figures 1, 3.1), about 140 km north of the town of Stewart and 75 km southwest of the village of Iskut. The claims are on NTS map sheets 104G01 and 104G02, and are centered at 57°13’N, 130°30’W, or UTM coordinates NAD83 9N 409400 6342500.

Access to the Property is via vehicle up Highway #37, which passes 15 km to the east of the claims, and then by helicopter to the Property. Excellent staging points are available on Highway #37 at the Burrage airstrip, 17 km to the northeast, and the Bob Quinn Lake airstrip, 31 km to the southeast. Bob Quinn has occasional scheduled air service. During the 2016 work program, the property was accessed by helicopter from the Alta Gas camp, some 65 kilometers to the south where the crew was housed for the duration of the project.

A winter cat trail was established to the property in the 1980s; however, its current condition is unknown. The trail is approximately 16 km in length and connects with Highway #37 at the bridge over Burrage Creek. The trail fords the Iskut River and Ball Creek and then follows an unnamed creek to the southeast corner of the claims, and then over a ridge to Hank Creek. The latter is an informally named tributary that flows northeasterly into Ball Creek. Numerous reclaimed or partially reclaimed cat trails are present on the claims.

Grid power is now available within 15 km of the Property, as a result of the 2014 completion of the 287 kV Northwest Transmission Line that follows Highway #37 from Terrace to a new substation at Bob Quinn Lake. Connections have also been made to the Alta Gas run-of-river power project west of Bob Quinn Lake, and to the Red Chris mine and Iskut village to the north.

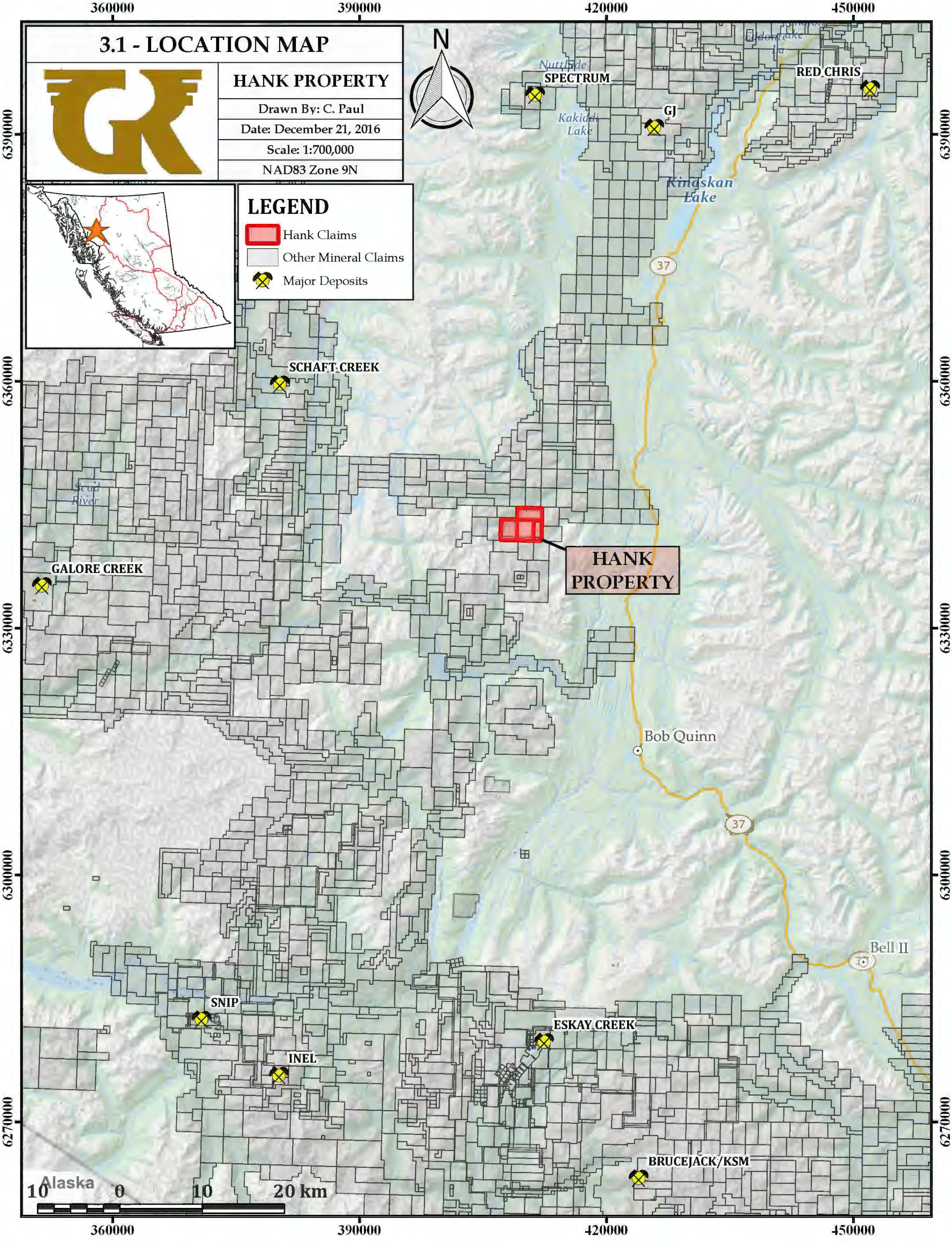
## 4. PHYSIOGRAPHY AND CLIMATE

The Property is situated in the Boundary Ranges of the Coast Mountains and topography is moderate to rugged. The area has been subjected to alpine glaciation with broad u-shaped valleys flanked by ridges, peaks and cirques. A few small glaciers and permanent snowfields remain on the higher, north-facing ridges. Smaller drainages are steeply incised, but in general foot access is relatively easy, particularly in the areas of known mineralization.

Elevations on the claims range from about 900 to 1950 m. Tree line is at about 1400 m, below which vegetation is primarily mature evergreen and deciduous forest with minimal underbrush. The forest changes upward into sub-alpine parkland with isolated patches of stunted trees, and finally into open alpine slopes covered by grass, moss, felsenmeer, scree and outcrop (Photo 3).

The climate is typical of the mountainous portions of northwest BC, with long, cold, snowy winters and short wet summers. The period of least snow-cover occurs between July and mid- September. Rock exposure is mainly limited to the ridges and the numerous small, incised creeks that flow to the

Northwest Territory
Yukon
Watson Lake
Skagway
Juneau
Dease Lake
Fort Nelson
Hank Project
Alaska
U.S.A.
British Columbia
CANADA
Alberta
Terrace
Prince George
Edmonton
Calgary
Kamloops
Vernon
Kelowna
Penticton
Campbell River
Courtenay
Nanaimo
Vancouver
Victoria
Washington
U.S.A.
National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, iPC
Legend
Population Center
Highway
Major Highway
Provincial Border
International Border
Golden Ridge Hank Property
Date: 2014/10/06
Rev.: --
Version: 1.0
Figure: 1
Author: WSH
Office: Vancouver
Scale: 1:8,750,000
Hank Project Location
Filename: 20141006_Location_Map.mxd
Location: Liard Mining District, NTS104G01/G02
Projection: BC Albers (NAD83)
0 50 100 200 300 400 500
Kilometers


3.1 - LOCATION MAP
HANK PROPERTY
Drawn By: C. Paul
Date: December 21, 2016
Scale: 1:700,000
NAD83 Zone 9N
LEGEND
Hank Claims
Other Mineral Claims
Major Deposits
N
SPECTRUM
GJ
RED CHRIS
Kinaskan Lake
Kakiddi Lake
SCHAFT CREEK
GALORE CREEK
HANK PROPERTY
Bob Quinn
Bell II
SNIP
ESKAY CREEK
INEL
BRUCEJACK/KSM
Alaska
10 0 10 20 km
360000
390000
420000
450000
6390000
6360000
6330000
6300000
6270000
37

northwest into Hank Creek. Water sources are abundant and should provide ample supply for any drilling or mining requirements. Below the alteration zones, many of the creek drainages are stained orange.

## 5. CLAIMS

The Hank Property is located within the Liard Mining Division and consists of four modified grid ("four-post") mineral claims totaling 1700 hectares (Figure 5.1, Table 1). They are held in the name of Lac Properties Inc., a subsidiary of Barrick Gold Corporation ("Barrick").

Golden Ridge Resource Ltd. ("Golden Ridge") has optioned the Property from Barrick Gold Corporation and may earn up to a 100% interest, subject to a 2% NSR, by completing the following exploration expenditures:

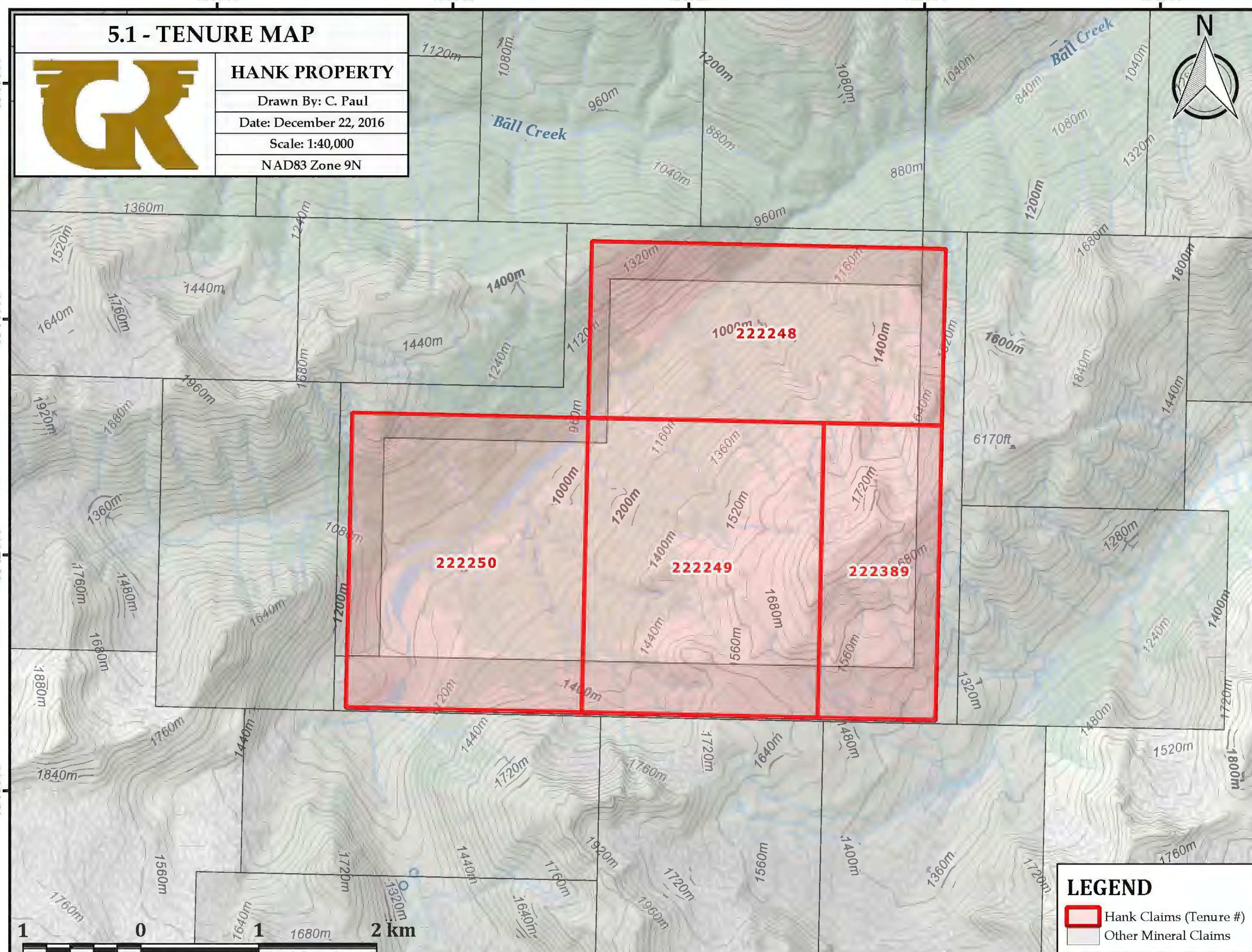
| EXPLORATION | COMPLETED IN |
|---|---|
| $100,000 | 2015 (Completed) |
| $200,000 | 2016 (Completed) |
| $700,000 | 2017 |
| $1,000,000 | 2018 |
| **$2,000,000** | **TOTAL** |

If the deposit equals or exceeds 3 million ounces of Au, Barrick has a back-in right to earn 51% of the Property by repaying Golden Ridge all of its expenditures on the Property and cancelling the 2% NSR. The companies will then form a 51%/49% JV with Barrick as the operator.

The Hank tenures are "legacy claims" under British Columbia's *Mineral Tenure Act*, and have not been converted to "cell claims". The claims are in good standing until April 4, 2019 and are currently in their fifth anniversary year under the *Mineral Tenure Act Regulation* (Regulation 89/2012).

**Table 1 - Summary of Tenure Data**

| Tenure Number | Claim Name | Issue Date | Good To Date | Area (ha) |
|---|---|---|---|---|
| 222248 | HANK 1 | 1983/mar/10 | 2019/apr/04 | 450 |
| 222249 | HANK 2 | 1983/mar/10 | 2019/apr/04 | 500 |
| 222250 | HANK 3 | 1983/mar/10 | 2019/apr/04 | 500 |
| 222389 | HANK 4 | 1984/oct/12 | 2019/apr/04 | 250 |
| | | | **TOTAL:** | **1700** |



5.1 - TENURE MAP
HANK PROPERTY
Drawn By: C. Paul
Date: December 22, 2016
Scale: 1:40,000
NAD83 Zone 9N
222248
222250
222249
222389
Ball Creek
LEGEND
Hank Claims (Tenure #)
Other Mineral Claims
1 0 1 2 km
N

# 6. EXPLORATION HISTORY

The history of work on the Hank 1-4 claims is summarized in Table 2 and Figure 6.1.

The earliest exploration in the area is reported to be have been prospecting for placer gold in the early 1900s. Following the discovery of the Galore Creek porphyry Cu-Au deposits in the mid- 1950s, several companies conducted reconnaissance exploration in the region, resulting in discoveries of additional porphyry and vein deposits in the Stikine and Iskut drainages.

According to Reina (1985) and Woodcock and Gorc (1981), the Ball Creek area was initially explored in the 1960s and 1970s for porphyry deposits by Southwest Potash, Stikine Exploration, Newmont, Great Plains Development and others.

In 1980, J.R. Woodcock and D. Gorc noted the presence of the conspicuous, 4 km-long gossan on what is now the Hank claims. They staked the Ball 1-4 claims to cover this target on behalf of G.R.C. Exploration Co. Ltd. (a subsidiary of Gulf Resources Canada Ltd.) and followed up with a one-day visit. Twelve rock samples were collected and disseminated pyrite, bleaching and barite were noted, however, there were no interesting Cu, Mo, Pb, Zn, Mn or F values. Gold was not analyzed for. No further work was recommended and the claims were allowed to lapse (Woodcock and Gorc, 1981).

Lac Minerals Ltd. staked the current Hank claims in 1983 and 1984 “to cover streams anomalous in gold and draining a hillside with gossanous rocks also anomalous in gold” (Turna, 1984).

Between 1983 and 1989, Lac completed soil, rock and stream sediment sampling, geological mapping, line cutting, a VLF survey, hand and back-hoe trenching, IP geophysics, road building, thin-section studies and 93 BQ drill holes totaling 11,892.2 m. Several large alteration zones were identified on the southeast side of the south fork of Ball Creek (also informally named “Hank Creek” or “Hemlo Creek” on Lac maps) including the Lower Alteration Zone (LAZ), Upper Alteration Zone (UAZ), Felsite Hill, Flats Zone, Rojo Grande, Rojo Chico and Silicified Zone. A number of north-westerly flowing tributaries of Hank Creek cut through the alteration zones, and Lac numbered these from 1 to 14, with Creek 1 being upstream to the southwest, and Creek 14 being to the northeast (Figure 6.1).

Work in 1984 identified a zone of elevated gold mineralization on surface including 2.54 g/t Au over 26 m in a trench in the UAZ at the head of Creek 6. The mineralization was reported to be coincident with a broad soil anomaly with >300 ppb Au. Hole DDH 84-2, the discovery hole, returned 1.98 g/t

Au over 18.0 m (Reina, 1985). This area became known as the "Hot Spot" within the UAZ.

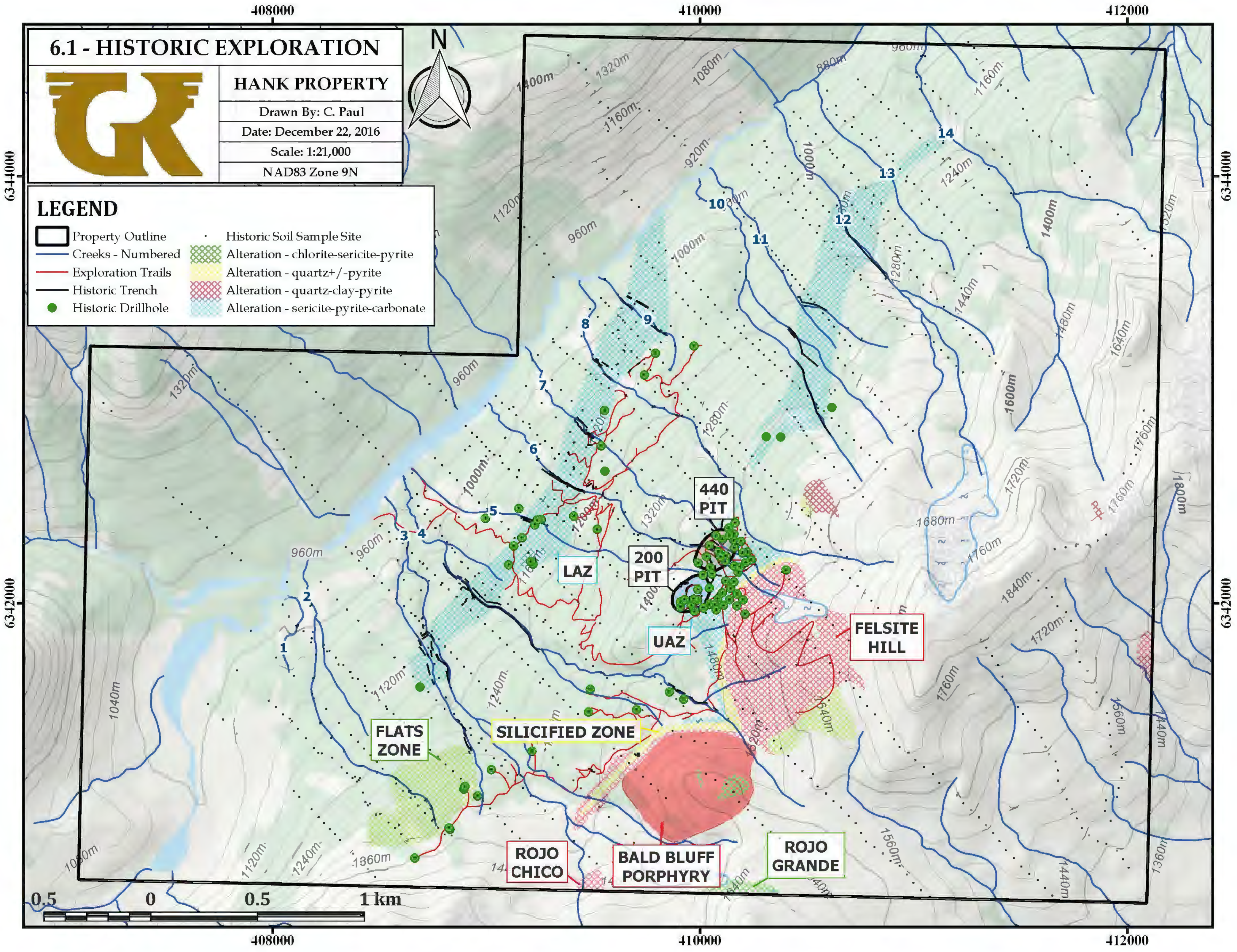
The Lac work led to the delineation of "indicated reserves (open pit material)" of 226,775 tonnes grading 4.4 g/t Au in the South zone and 226,775 tonnes grading 2.3 g/t Au in the North Zone (Lac Minerals Ltd. Prospectus 1987, as quoted in BC MINFILE 104G 107). Alternatively, McPherson (1993; quoting Collins 1990) reported a "drill indicated geologic resource" of 245,000 tonnes grading 4.0 g/t Au in the "200 pit" (South zone) and 218,000 tonnes grading 2.0 g/t Au in the "440 pit" (North zone). **It should be noted these estimations precede National Instrument 43-101, are repeated for historical reference only, are not current, and are not to be relied upon. A Qualified Person has not done sufficient work to classify the historic estimate as mineral resources or reserves, and Golden Ridge is not treating the historic estimate as a current estimate. Nevertheless, the historic estimates were completed by competent individuals to the standard of the day, and are considered to be relevant to future exploration of the property.**

Work in 1987 primarily comprised 9 diamond drill holes totaling 1048.2 m along with 13.5 km of IP geophysics. The drilling targeted IP chargeability features in combination with geochemical anomalies and known mineralization. Two holes (87-1 and 87-2) were drilled in the 200 Pit area (South Zone) of the UAZ, while the remaining seven holes tested IP and geochem targets within the UAZ and LAZ primarily in Creeks 3, 4, and 5 to the west, including two holes in the Flats zone (87-7 and 87-8). Both holes intersected high pyrite content, quartz-sericite-clay-pyrite alteration, veining and anomalous gold over their full lengths (e.g. 120 m of 390 ppb Au in hole 87-8).

Work in 1988 included 23 BQ drillholes totaling 4736 m on various targets, a petrographic study, geological mapping and road building.

Work in 1989 included 11 NQ/BQ drill holes totaling 1610.6 m on targets on Creeks 5, 7, and 8 in the LAZ, linecutting, road-building, geological mapping, and a petrographic study.

In 1990, Carmac Resources Ltd. optioned the property from Lac and completed five holes totaling 1458.4 m to test the down-dip and along strike extensions of mineralization within the LAZ and UAZ. Three of the Carmac holes in the LAZ were drilled to the southeast, apparently to test a theory that the mineralized zones were dipping steeply or to the northwest. This is in contrast to the previous Lac holes that were drilled vertically or to the northwest, given that mineralization was interpreted to dip moderately to the southeast. Results were disappointing and the property was returned to Lac (Visagie, 1991).



6.1 - HISTORIC EXPLORATION
HANK PROPERTY
Drawn By: C. Paul
Date: December 22, 2016
Scale: 1:21,000
NAD83 Zone 9N
N
LEGEND
Property Outline
Creeks - Numbered
Exploration Trails
Historic Trench
Historic Drillhole
Historic Soil Sample Site
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
408000
410000
412000
6344000
6342000
440 PIT
200 PIT
LAZ
UAZ
FELSITE HILL
SILICIFIED ZONE
FLATS ZONE
ROJO CHICO
BALD BLUFF PORPHYRY
ROJO GRANDE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
0.5
0
0.5
1 km

**Table 2 – Summary of historic work on the Hank Property**

| YEAR | OPERATOR (Reference) | WORK |
|---|---|---|
| 1980 | G.R.C. Exploration Company Ltd. (Woodcock and Gorc, | Staking of Ball 1-4 claims, field examination and sampling |
| 1983 | Lac Minerals Ltd. (Turna, 1984) | Staking of Hank 1, 2, 3 claims, soil, rock and stream sediment sampling, geological |
| 1984 | Lac Minerals Ltd. (Turna, 1985; Walcott, 1985) | 4 BQ drill holes totalling 288.1 m in Hot Spot, linecutting, grid soil sampling, rock sampling of alteration zones in creeks, VLF-magnetic and IP geophysical surveys, hand trenching, soil pits, geological mapping, staking of Hank 4 claim |
| 1985 | Lac Minerals Ltd. (Turna, 1986) | 46 BQ drill holes totalling 4209.3 m and initial resource calculation in Hot Spot area, back-hoe trenching, petrographic study |
| 1987 | Lac Minerals Ltd. (Turna, 1988; Walcott 1998) | 9 BQ drill holes totalling 1048.2 m on various targets, IP geophysics, back-hoe trenching, geological mapping |
| 1988 | Lac Minerals Ltd. (Turna, 1989) | 23 BQ drill holes totalling 4736 m on various targets, petrographic study, road building |
| 1989 | Lac Minerals (Brown, 1989; Collins, 1990) | 11 NQ/BQ drill holes totalling 1610.6 m on various targets , linecutting, road-building, geological mapping, petrographic study |
| 1990 | Carmac Resources Ltd (Visagie, 1991) | 5 BQ drill holes totalling 1458.4 m in UAZ and LAZ, surveying of drill collars |
| 1992 | Homestake Canada Inc. (McPherson, 1993a) | IP geophysics, geological mapping, core re-logging, silt, soil and rock sampling |
| 1993 | Homestake Canada Inc. (Gaunt and Kaip, 1994; Kaip and McPherson, 1994) | 6 BQTW drill holes totalling 658.8 m in Flats Zone (1 hole) and Felsite Hill (5 holes) |
| 2008 | Barrick Gold Corp. (Mann, 2008) | Field visit, rock sampling, SWIR study |
| 2014 | Golden Ridge Resources Ltd. | Airborne magnetic survey; GIS compilation, TerraSpec (SWIR) study, soil and rock geochemistry |
| ***1984-1993*** | ***Total drilling by Lac, Carmac and Homestake*** | ***104 drill holes, 13,709.4 m*** |

Homestake Canada Inc. optioned the property in 1992 and completed soil and rock sampling, geological mapping and 8.35 km of pole-dipole IP geophysical surveying (McPherson, 1993a). The work was focused on the extensive quartz-clay-pyrite alteration zones including Felsite Hill, Rojo

Grande, Rojo Chico and the Silicified zone, all of which occur topographically above the UAZ and LAZ.

Homestake drilled six holes totaling 658.8 meters in 1993, however this work was not filed for assessment credit. Five of these holes were designed to test the lateral extent of mineralization within and adjacent to the Silicified zone and within an interpreted feeder vent marked by hydrothermal breccia on the top of Felsite Hill (Kaip, 1997; Gaunt and Kaip, 1994). Unfortunately, these holes all failed to penetrate through the Silicified zone into the more prospective lower portions of the underlying UAZ. Nevertheless, elevated gold values of 1100 ppb Au were obtained in and adjacent to the Silicified zone within kaolinite and illite/smectite alteration. Hole 93-1 was drilled to a southeasterly azimuth from a location southwest of the Flats zone, intersecting weakly kaolinite-altered sedimentary strata. It was interpreted to have been drilled parallel with bedding in the younger sedimentary rocks, and thus did not properly test the extension of anomalous gold mineralization in holes 87-7 and 87-8

Barrick acquired the property through its takeover of Lac Minerals in 1994, and subsequent merger with Homestake in 2001. No work has been completed since 1993 with the exception of a four-day field visit by Barrick personnel in 2008 (Mann, 2008).

# 7. GEOLOGICAL SETTING

## 7.1 *Tectonic Setting*

The Hank property is located on the western margin of the Intermontane Belt, and the eastern margin of the Skeena Fold Belt within the Canadian Cordillera. It is within the northwestern portion of the Stikine terrane, which is bounded to the west by the Coast Plutonic Complex and by volcanic and sedimentary rocks of the Cache Creek and Quesnel terranes to the east. Stikine terrane comprises volcanic and sedimentary rocks that formed in an island arc environment between the Paleozoic and Middle Jurassic (Kaip, 1997).

## 7.2 *Regional Geology*

Regional mapping has been completed by the GSC (Evenchick, 1991 and Souther, 1972) and the BC Geological Survey (Logan et al. 1992). The MSc thesis by Kaip (1997) provides a comprehensive summary on the regional and local geology of the Hank property. A regional geology map after the

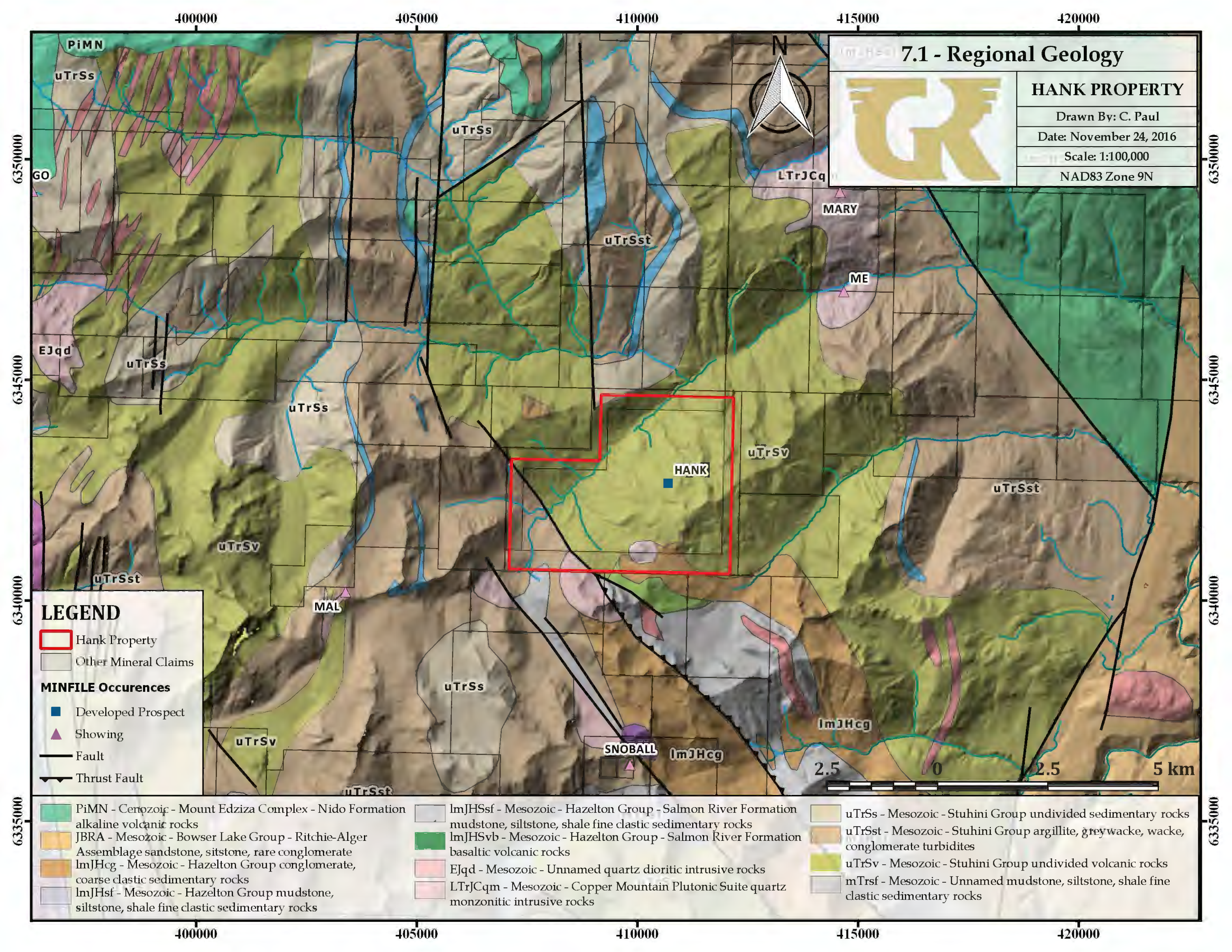
Digital Geology Map of British Columbia (Massey et al., 2005) is included as Figure 7.1.

The stratified rocks of the Stikine terrane in the southern Telegraph Creek map area have been divided into four broad tectonostratigraphic units as outlined in Table 3. These include Paleozoic volcanic, sedimentary and related intrusive rocks of the Devonian to Permian Stikine Assemblage; Mesozoic sedimentary, volcanic plutonic arc assemblages of the Upper Triassic Stuhini Group and Lower-Middle Jurassic Hazelton Group; the overlapping Middle Jurassic to Early Cretaceous Bowser Lake Group basinal sedimentary assemblage; and Tertiary continental arc assemblages of the overlying Spectrum Range and Mount Edziza Complexes (Kaip, 1997).

The Stikine Assemblage is exposed in the Moore Creek area southwest of the property and comprises complexly folded Devonian to Permian schists and gneisses. These are interpreted to have been derived from sedimentary, volcanic and intrusive protoliths formed by bi-modal arc development, sedimentation, and carbonate reef and platform development (Kaip, 1997).

Upper Triassic volcanic, sedimentary and related intrusive rocks of the Stuhini Group sit unconformably on the Stikine Assemblage. These are shown as uTrS units on Figure 7.1 and are primarily calc-alkaline to tholeiitic basaltic to andesitic marine volcanic flows, volcaniclastics, limestone, volcanic-derived sediments and related intrusive rocks. Work by Souther (1972) and Logan et al. (1992) suggest that there is a gradual change from proximal to distal volcanic facies from the west to the east, although stratigraphic correlations are difficult due to the homogeneity of volcanic rocks and lack of fossil age control in sedimentary units (Kaip, 1997).

Lower Jurassic basal coarse clastic, volcanic- and plutonic-derived sediments are locally present in the region (e.g. Jack Formation) and are thought to represent an unconformity related to deformation and/or uplift at the Triassic-Jurassic boundary, and a hiatus in volcanic activity (Souther, 1972). The Hazelton Group (lmJH units on Figure 7.1) rests conformably on the Jurassic clastic sediments, and is comprised of calc-alkaline andesitic volcanic strata, related intrusions, and minor sedimentary rocks of the Betty Creek Formation, and bi-modal flows, tuffs, related intrusions and siltstones and tuffs of the Salmon River Formation. Hazelton Group sediments form a broad northwest trending syncline in the south-central portion of the Hank claims. Dioritic rocks in the Hankin Peak area, south of the property, are thought to be Early Jurassic in age and related to the Hazelton Group (Kaip, 1997). McPherson (1993a) noted that Middle Jurassic pillow basalts and derived pyroclastics mapped by Souther (1972) northeast of Hank might be correlative to Salmon River Fm. (Eskay Creek facies; Anderson and Thorkelson, 1990).


7.1 - Regional Geology
HANK PROPERTY
Drawn By: C. Paul
Date: November 24, 2016
Scale: 1:100,000
NAD83 Zone 9N
LEGEND
Hank Property
Other Mineral Claims
MINFILE Occurences
Developed Prospect
Showing
Fault
Thrust Fault
HANK
MARY
ME
MAL
SNOBALL
PiMN
uTrSs
uTrSst
uTrSv
LTrJCq
EJqd
lmJHcg
GO
2.5 0 2.5 5 km
400000
405000
410000
415000
420000
6335000
6340000
6345000
6350000
PiMN - Cenozoic - Mount Edziza Complex - Nido Formation alkaline volcanic rocks
JBRA - Mesozoic - Bowser Lake Group - Ritchie-Alger Assemblage sandstone, sitstone, rare conglomerate
lmJHcg - Mesozoic - Hazelton Group conglomerate, coarse clastic sedimentary rocks
lmJHsf - Mesozoic - Hazelton Group mudstone, siltstone, shale fine clastic sedimentary rocks
lmJHSsf - Mesozoic - Hazelton Group - Salmon River Formation mudstone, siltstone, shale fine clastic sedimentary rocks
lmJHSvb - Mesozoic - Hazelton Group - Salmon River Formation basaltic volcanic rocks
EJqd - Mesozoic - Unnamed quartz dioritic intrusive rocks
LTrJCqm - Mesozoic - Copper Mountain Plutonic Suite quartz monzonitic intrusive rocks
uTrSs - Mesozoic - Stuhini Group undivided sedimentary rocks
uTrSst - Mesozoic - Stuhini Group argillite, greywacke, wacke, conglomerate turbidites
uTrSv - Mesozoic - Stuhini Group undivided volcanic rocks
mTrsf - Mesozoic - Unnamed mudstone, siltstone, shale fine clastic sedimentary rocks

East of the property, along the Iskut River, are sedimentary rocks of the Jurassic Ritchie-Alger and Todagin Assemblages of the Bowser Lake Group (Evenchick, 1991). Chert pebble conglomerates, also of possible Bowser Lake Group, are exposed on the ridge north of Hank Creek (Cathro, 2014).

Both the Upper Triassic volcanic and sedimentary rocks and the Lower to Middle Jurassic sedimentary rocks are intruded in several places by Upper Cretaceous to Lower Tertiary "felsite" intrusions (Souther, 1972). These intrusions range in composition from felsite to quartz-feldspar porphyry to orbicular rhyolite, and typically form narrow tabular bodies that cut stratigraphy. At Hank these "felsites' have been identified as quartz-clay-pyrite alteration zones (McPherson, 1993a).

The youngest rocks in the region are Tertiary to Quaternary basalt flows related to the Mount Edziza volcanic complex located approximately 15 km northwest of the property.

Other than the "felsites", intrusive rocks are limited to small bodies of granodiorite and quartz diorite related to the Coast Plutonic Complex. Goat Peak, on the southern edge of Hank, is underlain by diorite (McPherson, 1993a).

Structure in the region is dominated by the north-south trending Iskut River and Mess Creek valleys, believed to be controlled by major fault zones (Souther, 1972). Between the two valleys is a well-developed set of northwest trending faults, some of which are truncated by re-activation along the north-south faults. One of these northwest trending faults brings Upper Triassic Stuhini sandstone, graywacke and siltstone to the west in contact with slightly younger Upper Triassic Stuhini andesitic volcanics and minor sediments to the east (Souther, 1972; Logan et al., 1992). A similar but smaller sub-parallel fault, the West Hank Fault, crosses the western part of the Hank claims and separates Upper Triassic aphyric andesite flows, pyritic flow banded rhyolite and minor sediments to the west from hornblende+/- feldspar phyric andesitic volcanics to the east (McPherson, 1993a).

## 7.3 *Regional Mineral Deposits*

The Stikine terrane in this region is very well endowed with a wide variety of significant metallic mineral occurrences. These can be broadly divided into porphyry, skarn, vein, disseminated, epithermal and volcanic massive sulphide styles (Kaip, 1997). The most significant deposits are the Middle Jurassic subaqueous hot spring deposits at Eskay Creek, the Upper Triassic Shaft Creek Cu-Mo-Au porphyry, Early Jurassic alkaline Cu-Au porphyry and related veins, breccias and skarns (e.g. Red Chris, Galore Creek, Copper Canyon and GJ), Paleozoic massive sulphide and skarn occurrences (e.g Foremore), and the Hank epithermal Au-Ag prospect of Jurassic or younger age.

**Table 3 - Tectonostratigraphic units in the Southern Telegraph Creek map area (Kaip, 1997)**

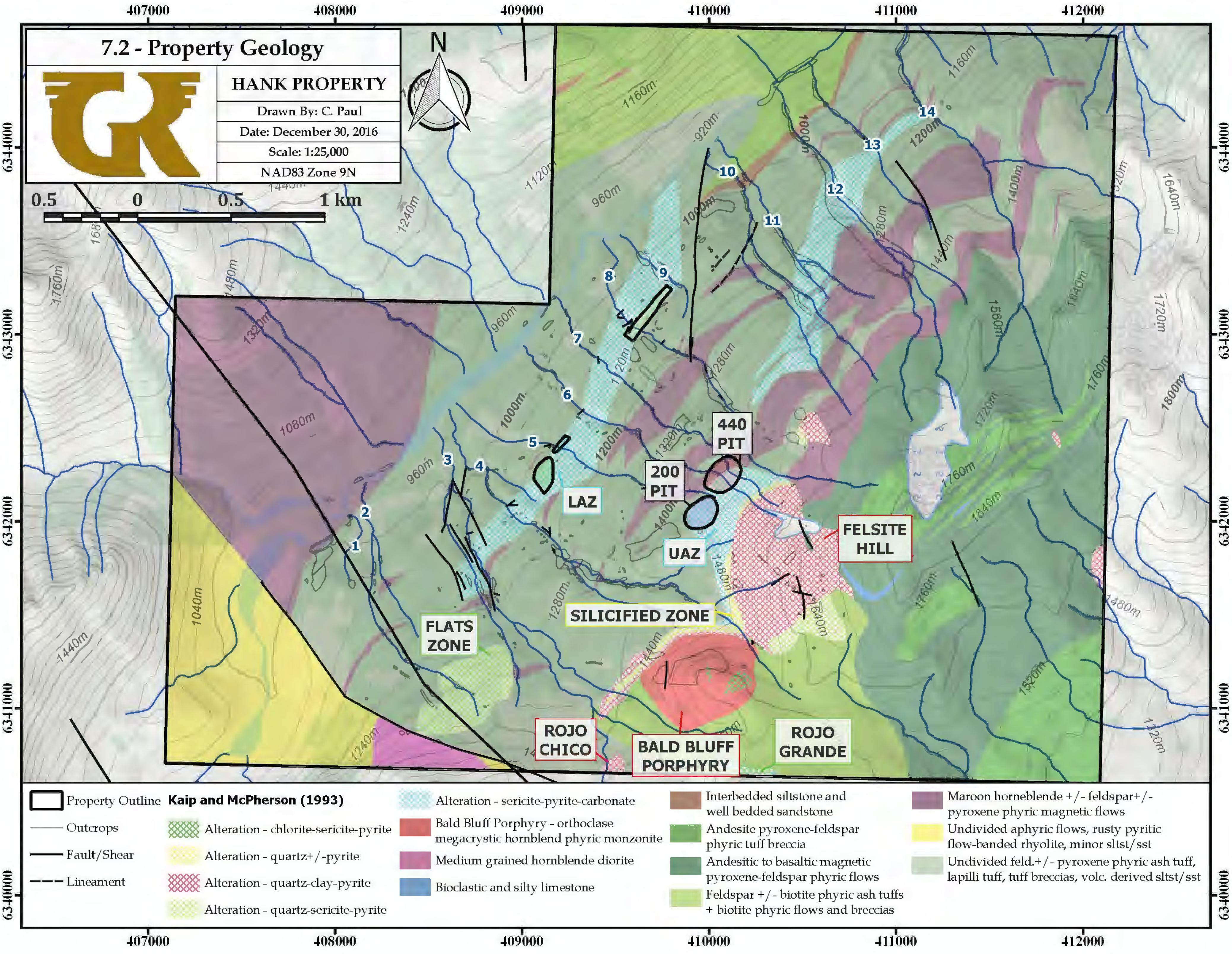
| Age | | Unit | Lithological Description | Tectonic Setting |
|---|---|---|---|---|
| Tertiary | Late Moicene to Recent | Spectrum & Edziza Complex | Peralkaline, subaerial basaltic to rhyolitic lavas and pyroclastic strata and related sub-volcanic intrusions. | **Continental Arc**<br>(Related to crustal extension) |
| | | | Angular unconformity | |
| Mesozoic | Middle Jurassic to Lower Cretaceous | Bowser Lake Group | Overlying, shallow marine to nonmarine sandstone, chert pebble conglomerates, siltstone minor limestone and coal (Currier, McEvoy and Devil's Claw units).<br>Basal Ashman Formation including shale, feldspathic to quartzose sandstone, greywacke and chert pebble conglomerate. | **Onlap Assemblage**<br>(North and easterly derived clastic sedimentation from Cache Creek during accretion of Stikinia) |
| | | | Locally unconformable | |
| Mesozoic | Lower to Middle Jurassic | Hazelton Group | Basaltic to rhyolitic flows, tuffs and related intrusions, grade upward into interbedded siltstones and ash tuffs (Salmon River Formation).<br>Dominantely andesitic volcanic strata and related intrusions, minor sedimentary strata and felsic tuffs (Betty Creek Formation).<br>Basal coarse clastic, volcanic and plutonic derived, sedimentary sequence (Jack Formation). | **Island Arc**<br>(Dominately Calc-alkaline volcanic strata, marine eastern facies and proximal, locally emergent western facies) |
| | | | Angular to nonconformity | |
| Mesozoic | Upper Triassic | Stuhini Group | Bioclastic limestone, shales and wacke.<br>Basaltic to andesitic flows, tuffs and related intrusions and volcanic derived sedimentary strata.<br>Siltstones, tuffs and silty limestones (Kitchener unit). | (Calc-alkaline to Tholeiitic marine volcanic strata, eastern facies and proximal, western facies) |
| | | | Angular to disconformity | |
| Paleozoic | Devonian to Permian | Stikine Assemblage | Permian Limestones and overlying andesitic volcanic and sedimentary strata.<br>Carboniferous basaltic to felsic flows and pyroclastic, and minor sedimentary strata.<br>Devonian basaltic to felsic tuffs, siltstones and limestones. | **Island Arc**<br>( bi-modal arc construction followed by carbonate and marine sedimentation related to arc subsidence) |

## 7.4 *Property Geology*

Geological work and interpretations completed by Lac and Homestake between 1983 and 1993 is compiled on Figure 7.2 (Kaip and McPherson, 1993; McPherson, 1993a; and Gaunt and Kaip, 1994). The following description is quoted from Gaunt and Kaip (1994):

### *7.4.1 Stratigraphy*

*The Hank property is underlain by a succession of flows, sills volcaniclastic breccias, tuffs and minor sedimentary rocks divided into five units. On the northeast side of the West Hank fault, the stratigraphy consists of Upper Triassic Stuhini Group pyroxene- phyric sills flows and flow breccias overlying hornblende±pyroxene-phyric flows and sills, volcaniclastic tuffs and breccias, siltstones, sandstones and biotite-phyric flows and breccias. Lower Jurassic carbonaceous siltstones,*


7.2 - Property Geology
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:25,000
NAD83 Zone 9N
N
0.5
0
0.5
1 km
407000
408000
409000
410000
411000
412000
6344000
6343000
6342000
6341000
6340000
LAZ
440 PIT
200 PIT
UAZ
FELSITE HILL
SILICIFIED ZONE
FLATS ZONE
ROJO CHICO
BALD BLUFF PORPHYRY
ROJO GRANDE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Property Outline
Outcrops
Fault/Shear
Lineament
Kaip and McPherson (1993)
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - quartz-sericite-pyrite
Alteration - sericite-pyrite-carbonate
Bald Bluff Porphyry - orthoclase megacrystic hornblend phyric monzonite
Medium grained hornblende diorite
Bioclastic and silty limestone
Interbedded siltstone and well bedded sandstone
Andesite pyroxene-feldspar phyric tuff breccia
Andesitic to basaltic magnetic pyroxene-feldspar phyric flows
Feldspar +/- biotite phyric ash tuffs + biotite phyric flows and breccias
Maroon horneblende +/- feldspar+/- pyroxene phyric magnetic flows
Undivided aphyric flows, rusty pyritic flow-banded rhyolite, minor sltst/sst
Undivided feld.+/- pyroxene phyric ash tuff, lapilli tuff, tuff breccias, volc. derived sltst/sst

*sandstones, wackes and pebble conglomerates which locally contain fossilized wood fragments are unconformably overlying the volcanic succession.*

*On the west side of the fault, well-bedded, feldspar-rich, volcanic derived sandstones, conglomerates, greywacke and thin bedded siltstones of the Upper Triassic Stuhini Group are exposed along the north flank of Goat Peak (Logan et al., 1992). A wedge of possible Middle Jurassic interlayered aphyric vesicular basalt flows and flow-banded rhyolites and minor volcaniclastic sediments exposed along the eastern flank of Goat Peak are bounded by the West Hank fault on the northeast side and hornblende diorite to the west.*

## *Stuhini Group (Upper Triassic)*

*Unit 1a: On the northeastern side of the West Hank fault, the most volumetrically abundant unit on the property are green, black and maroon volcaniclastic lapilli and tuff breccias. Rocks in this unit are poorly sorted and display weak normal grading from lapilli to breccia-sized fragments. Individual layers are difficult to identify, imparting an overall massive appearance to the rock. The fragments are plagioclase+hornblende+pyroxene-phyric, typically angular and vary in size from 2 to 50 centimetres. Plagioclase laths vary from 1 to 4 millimetres and make up 20 to 35 percent of the fragments. Hornblende varies from 2 to 5 millimetres and pyroxene from 1 to 2 millimeters; together they comprise 15 percent of the fragments. The matrix of lapilli and tuff breccia is composed of a fine-grained mass of broken plagioclase crystals and ash.*

*Within this sequence, isolated lenses of well-bedded ash tuff, composed of broken plagioclase laths and ash are exposed in Creeks 4 and 7 and on Camp Peak and vary from 0.5 to 1 meter wide. Poorly indurated, well-bedded, maroon and green· calcareous siltstones and volcanic sandstones crop out at the top of Creek 13.*

***Unit 1b**: At the base of Creeks 8, 9 and 10 a lens of plagioclase+biotite-phyric ash and lapilli tuff interfingers with Unit 1a. On the ridge to the north these tuffs are interbedded with black biotite and plagioclase-phyric flows and breccias. Fragments are subrounded to rounded and vary in size from 2 to 20 centimetres. The groundmass is composed of fine-grained ash and isolated shards of volcanic glass. Flows, 20 to 30 metres thick are massive to amygdaloidal and medium-grained with euhedral 2 to 5 millimetre biotite phenocrysts. . (Note: this rock type was named Unit 1c in older reports by Reina.)*

***Unit 1c:*** *Overlying Unit 1b are black, finely laminated siltstones interbedded with grey and brown fine to medium-grained sandstones. Individual sandstone beds vary in thickness from 2 to 20 centimetres and occasional load structures indicate that beds are upright. The thickness of this unit varies along strike from 20 to greater than 50 metres. . (Note: this rock type was named Unit 1b in older reports by Reina.)*

***Unit 1d:*** *Interfingering with Unit 1a are maroon hornblende+plagioclase+pyroxene- phyric flows, sills and dykes. On the west side of the property flows and sills are volumetrically minor forming thin lenses which are discontinuous over 100 metres strike length. On the east side of the property, a series of flows and sills up to 70 metres thick dominates the stratigraphy. Hornblende phenocrysts vary from 2 to 20 millimetres, are altered to chlorite and magnetite and comprise up to 15 percent of the rock. Pyroxene occurs as equant crystals 2 to 4 millimetres in size and are variably altered to chlorite and calcite. The groundmass is composed of plagioclase and contains disseminated magnetite.*

***Unit 2a:*** *Overlying Unit 1, pyroxene+plagioclase-phyric, dark green to grey, magnetic flows and sills are best exposed along Hank Ridge. The sills are massive and range in thickness from 20 to greater than 100 metres. Recessively weathering equant pyroxene crystals vary in size from 2 to 10 millimetres and comprise 10 to 30 percent of these rocks. Plagioclase occurs as crowded white laths up to 3 millimetres in size and forming 20 to 40 percent of the rock. The groundmass is aphanitic and contains fine-grained plagioclase and disseminated magnetite. Flows range in thickness from 5 to 15 metres and are bounded by flow breccias of unit 2b. Isolated limestone clasts are observed in the flows near the top of the section on Hank Ridge.*

***Unit 2b:*** *Interlayered with the dark green grey pryroxene+plagioclase flows are breccias, which are derived from the flows of unit 2a. The breccias are massive and poorly sorted and consist of angular to well-rounded fragments up to 1.5 metres in size.* (Note: this unit is named Unit 2c in reports by Reina.)

**Unit 2c***: A lens of partially recrystallized, bioclastic and silty limestone crops out near the top of the exposed section of Unit 2a on Hank Ridge. The limestone contains bivalve and gastropod fossil fragments in strongly bioturbated layers interbedded with well- laminated, fine-grained* *silty limestone. This unit is overlies tuff breccia and underlies pyroxene+feldspar-phyric flows. (Note: this unit is named Unit 2b in reports by Reina.)*

***Unit 3:*** *On the west side of the West Hank fault, Upper Triassic Stuhini Group well- bedded, feldspar-rich, volcanic derived sandstones, conglomerates, greywacke and thin bedded siltstones are exposed along the north flank of Goat Peak (Logan et al., 1992). On the property, this unit is exposed west of Creek 1, and consists of brown to black, well-bedded, calcareous siltstone and fine-grained sandstones with carbonaceous plant fragments along bedding planes.*

## *Lower Jurassic*

***Unit 4:*** *Unconformably overlying Unit 2 are poorly indurated, maroon and green siltstones, brown and green well-bedded sandstones, and heterolithic pebble to cobble conglomerates. Fossilized wood fragments up to 2 metres are common and rare Weyla. are reported (Turna, 1985). Siltstones are well laminated and individual beds vary from 0.5 to 5 metres. The sandstones are calcareous and display low-angle, cross trough bedding with pebble lags along foresets. Clasts in the conglomerates are well-rounded and vary in size from 0.5 to 10 centimetres. Clasts are dominantly intraformational and derived from the underlying volcanic rocks. Distal equivalents of the coarse clastic rocks were observed on the ridge to the northwest of the Hank property and consist of well- bedded siltstones with lenses of cross-bedded medium grained sandstones.* (Note: this unit may represent an important unconformity similar to the Jack Formation elsewhere in the Iskut region (Souther, 1972). As such it could be related to deformation and/or uplift at the Triassic-Jurassic boundary, and a hiatus in volcanic activity.)

## *Middle Jurassic*

***Unit 5:*** *A wedge of dark green to black amygdaloidal aphyric flows and flow breccias (unit 5a) interlayered with rusty, pyritic, flow-banded rhyolites (unit 5b), are exposed on the east flank of Goat Peak along the southwest side of the West Hank fault. These volcanic rocks were previously grouped with Upper Triassic sedimentary rocks of unit 3, but have now been assigned a possible Middle Jurassic age based on field observations. (Note: According to Kaip (1997) this bimodal volcanic sequence is more similar to Hazelton Group strata to the east in* *the Kinaskan Lake area (Souther, 1972; Evanchick, 1990), and therefore, he correlates this unit to the Lower to Middle Jurassic Hazelton Group.)*

## *Intrusive Rocks:*

***Unit A (Bald Bluff Porphyry):*** *An orthoclase-megacrystic, hornblende-porphyritic intrusive is exposed on Bald Bluff. The intrusive is well foliated and loca1ly flow-banded with the strike of the foliation subparallel to the margins of the plug and dipping near vertically. A contact breccia with angular fragments of the foliated intrusive cemented by calcite, iron-bearing carbonate and grey to red silica is exposed on the margins of the intrusive. On the top of Bald Bluff the foliation flattens, and well-banded orthoclase- megacrystic intrusive rock underlies silicified breccia derived from it The Bald Bluff porphyry has intrusive contacts with the surrounding sediments and breccia dikes related to it intrude sedimentary rocks adjacent to the contact. Minor hornfelsing of unit 4 is observed in outcrop adjacent to the intrusion and represented by the occurrence of black, euhedral biotite and fine-grained, disseminated pyrite. A sample of the Bald Bluff intrusion collected during the 1992 field season for zircon dating yielded a preliminary age of 185.2 +4.5/- 1.2 Ma (J.K. Mortensen, personal communication).*

***Unit B:*** *A plug of relatively homogeneous, medium-grained equigranular diorite, which locally contains more pegmatitic phases, crops out on Goat Peak west of the West Hank fault.*

## *Structure*

*The West Hank Fault is the dominant structural feature on the property. It lies along the western margin of the property, and is probably the southeast extension of a similar fault mapped on the ridge to the northwest by Logan et al (1992; also A. Kaip, personal communication). The fault trends north-northwest, dips sub-vertically and is marked by abundant white calcite veining, brecciation and contorted bedding in the sediments of Unit 4.*

*Bedding in the volcanic succession on the northeast side of the West Hank fault strikes northeast and dips 20 to 40 to the southeast along Hank Ridge. On the ridge to the north, bedding strikes southwest and dips 20 to the northwest. Within Unit 2b, above Felsite Hill, bedding strikes southeast and dips 50 to the southwest. Local variations in bedding are also recorded within Unit lb at the base of Creeks 10 and 12.*

*Within Unit 4 bedding is more variable due to doming, caused by the intrusion of the Bald Bluff porphyry and folding along the east side of Rojo Grande. Along the margins of the intrusion, east to northeast striking bedding steepens from 30 to 60. On the east side of Rojo Grande an asymmetric syncline trending southeast probably corresponds to one mapped by Souther (1972). Bedding' on the southwest side of the West Hank fault strikes south and dips steeply to the west. Bedding in the sedimentary rocks adjacent to the fault and along Hank Creek strikes east and dips steeply south. Within the volcanic succession along the northwest side of Hank Ridge, local faults have been identified in outcrop and drill core. These faults strike north-northwest and have offsets of less than 100 metres.*

# 8. MINERALIZATION & ALTERATION

*Seven alteration zones are present on the Hank property (Figure 7.2) with characteristic alteration assemblages described by Kaip and McPherson (1993). They include: the quartz stockwork consisting of quartz veining and silica flooding within chlorite+Fe-carbonate+pyrite altered volcaniclastic breccias of unit la; the lower alteration zone (LAZ), dominated by intense sericite+pyrite+carbonate alteration; the upper alteration zone (UAZ), dominated by sericite+pyrite±chlorite±clay±carbonate alteration; the Flats zone at the head of Creeks 1 to 3 and characterized by quartz+sericite+pyrite alteration near the base of the zone and clay+pyrite±quartz alteration and quartz+potassium feldspar+pyrite alteration above; the silicified zone characterized by intense silicification with or without pyrite and barite which displays multiple phases of brecciation; Felsite Hill and Rojo Grande dominated by intense quartz+clay+pyrite alteration and lesser quartz+clay+pyrite and clay quartz alteration.*

***Quartz Stockwork Zone:*** *Below the LAZ in Creek 4 is a 10m by 75m, east-northeast trending zone of quartz stockwork hosted within chlorite-Fe carbonate-pyrite altered volcaniclastic breccias of unit 1a. The zone appears to terminate east of Creek 4, and is covered by talus to the west. The stockwork consists of milky-white to colourless quartz veins up to 2cm wide within a 10m wide halo of moderate pervasive quartz-sericite alteration carrying 3 to 5% fine pyrite. 1992 rock sampling of the zone returned moderately anomalous values up to 812 ppb Au.*

***Lower Alteration Zone (LAZ):*** *The LAZ is a broad northeast trending zone of sericite-pyrite±carbonate alteration hosted within volcaniclastic tuffs and breccias of Unit 1a and flows and sills of Unit 1d. The Zone is 100 to 250m wide, 2400m long, and dips steeply. The lower alteration zone terminates to the north between creeks 9 and 10 along Hank Creek. Reconnaissance mapping on the Ridge to the north on the property indicates that the lower alteration zone does not extend across Hank Creek. To the southwest, the Zone appears to be cut-off by a steep northwest trending fault immediately southwest of Creek 3. This fault is visible in DDH 88-23, where strong sericite-pyrite-carbonate alteration is in fault contact with unaltered andesite hornblende-feldspar phyric lapilli tuffs.*

*Alteration is typically pale grey to white in colour and very uniform. Up to 15% pyrite occurs as euhedral, 1 to 10mm disseminated crystals in stringers, or replacing fragments. Sericite is predominantly white and less commonly pale green to brown, and pervasive calcite is the main carbonate mineral. Calcite veinlets up to 10% are common, and are often associated with elevated gold values.*

*The intensity of alteration increases toward the lower boundary of the alteration zone from weak chlorite+pyrite+carbonate alteration to strong sericite+pyrite+carbonate alteration. The lower boundary of the alteration zone is based on a decrease in the estimated percentage of carbonate and the prominent change in the colour of the gossans in the creeks along the northeast side of Hank Ridge. The upper contact of the lower alteration zone is gradational and marked by a gradual decrease in the intensity of alteration to weak chlorite+pyrite+carbonate±sericite with discontinuous pods of stronger alteration.*

*Hosted within the LAZ are several quartz-carbonate veins up to 50cm wide, which host sphalerite, galena, pyrite and minor chalcopyrite mineralization. These veins are discontinuous, and appear to be localized along dilational zones which pinch and swell. The veins are locally zoned, with fine-grained, grey quartz at vein margins and coarse grained, white to pale pink calcite and sulphide mineralization in the cores. Alteration typically increases to soft, pyritic clay adjacent to the margins of these quartz-carbonate- sulphide veins. The sulphide veins are often cut by late pink to white carbonate veins up to 30cm wide. Late gypsum and anhydrite fracture fill is common within the LAZ and in the surrounding unaltered host rock.*

*Gold is predominantly associated with narrow sulphide bearing quartz and quartz-carbonate veins, which create narrow high grade intervals (from 1.0 to 95 .0 g/t Au over 0.5 to 5.0m) within a broader zone of elevated background gold values (typically 100 to 700 ppb Au) associated with higher concentrations of disseminated pyrite and calcite stringers (Brown, 1989). Lac has identified eleven mineralized zones within the LAZ, the best intersection is 13.4 g/t Au* (plus 132.3 g/t Ag) *over 9.14m* (apparent width) *in DDH 88-4 (in the "Creek 5 Deep Zone") (Collins, 1990). Surface sampling has returned up to 74.0 glt Au from grab samples, and several of these high grade areas have not yet been drill tested.*

Other strong drill results (all true widths) in the LAZ include:

- 0.63 m grading 70.86 g/t Au (Hole 89-4, Creek 5 "B" Zone)
- 3.40 m grading 16.83 g/t Au (Hole 87-3, Creek 5 "C" Zone)
- 2.93 m grading 18.27 g/t Au & 132.9 g/t Ag (Hole 88-4, Creek 5 "Flat" Zone)
- 1.10 m grading 66.19 g/t Au & 530 g/t Ag (Hole 86-6, Creek 5"86-6 Deep" Zone)
- 4.26 m grading 5.77 g/t Au & 35.2 g/t Ag (Hole 89-11, Creek 8 "A" Zone)
- 2.38 m grading 12.0 g/t Au & 257.2 g/t Ag (hole 89-11, Creek 8 "B" Zone

(Source: Brown, 1989.)

***Upper Alteration Zone**: The UAZ is less continuous than the LAZ and forms a series of northeast trending zones which extend for approximately 2000m from the head of Creek 4 to the west side of Creek 12. The Zones vary from 25 to 200m in width, with individual zones up to 1000m in strike length. Between Creeks 10 and 12 the upper contact of the UAZ coincides with the base of a thick flow of unit 1d. In the 200 and 440 Pit the footwall of the UAZ is defined by a thick flow or sill of unit 1d indicating that the UAZ is semi- conformable to stratigraphically within the more permeable rocks of unit 1a and cuts shallowly up section to the southwest. Previous work by Lac Minerals Ltd. has outlined a drill indicated geologic resource in two small pits within the southwestern most zone of alteration.*

The Lac work led to the delineation of "indicated reserves (open pit material)" of 226,775 tonnes grading 4.4 g/t Au in the South zone and 226,775 tonnes grading 2.3 g/t Au in the North

Zone (Lac Minerals Ltd. Prospectus 1987, as quoted in BC MINFILE 104G 107). Alternatively, McPherson (1993; quoting Collins 1990) reported a "drill indicated geologic resource" of 245,000 tonnes grading 4.0 g/t Au in the "200 pit" (South zone) and 218,000 tonnes grading 2.0 g/t Au in the "440 pit" (North zone). **It should be noted these estimations precede National Instrument 43-101, are repeated for historical reference only, are not current, and are not to be relied upon. A Qualified Person has not done sufficient work to classify the historic estimate as mineral resources or reserves, and Golden Ridge is not treating the historic estimate as a current estimate. Nevertheless, the historic estimates were completed by competent individuals to the standard of the day, and are considered to be relevant to future exploration of the property.**

*Between Creeks 8 and 14 is similar to alteration in the LAZ with pale grey to white sericite+pyrite+carbonate alteration containing local zones of less altered sericite+chlorite+pyrite+carbonate altered rocks. To the southwest in the 200 and 440 Pit region alteration is characterized by chlorite+pyrite+carbonate alteration at the base of the UAZ and grades vertically to pale green to grey sericite+pyrite+carbonate alteration to intense sericite+clay+pyrite+carbonate alteration near its upper contact with the silicified zone. This change in alteration is characterized by a decrease in competency of core as clay becomes more abundant.*

*Six types of veining are recognized: quartz-carbonate veins carrying sphalerite, pyrite and minor chalcopyrite; barite-pyrite veins; quartz-pyrite veins; pyrite veinlets; white to pink carbonate veins and crustiform calcite veins. Barite veins are characterized by coarse-grained bladed barite with minor disseminated pyrite and frequently contain wallrock fragments. Quartz-pyrite veins, commonly less than 10 centimeters wide, contain euhedral coarse-grained pyrite concentrated along the margins. Pyrite veinlets, less than 1 centimeter in width are abundant in the upper zone and are cut by white to pink carbonate veinlets. Crustiform calcite veins up to 1 metre wide are exposed in the 200 and 440 pit area of the upper alteration zone. These veins contain minor pyrite and bladed quartz after calcite.*

*Gold mineralization within the UAZ is more disseminated in nature than in the LAZ and occurs within a subhorizontal zone dipping gently to the southeast, approximately 30 metres above the base of the UAZ. The gold concentrations correlate with an increase in sulphide bearing quartz* *and quartz-carbonate veins enveloped by intense clay+sericite+pyrite carbonate alteration which create local high grade intersections. The majority of the higher grade intersections are broad zones of anomalous gold values associated with elevated concentrations of disseminated pyrite and an increase in the percentage of calcite stringers. Veining strikes northeast and dips steeply to the southeast. The best drill intersections include: 9.39 g/t Au over 12.19m in DDH 85-32, and 3.74 g/t Au over 30.48m in DDH 85-45 (Visagie, 1991). Surface sampling includes intersections of 462 ppb Au over 115m and 2.54 glt Au over 26m (Brown, 1989).*

*Between the upper alteration zone and quartz-c1ay-pyrite alteration on Felsite Hill there is a poorly exposed zone, up to 100 metres wide, of transitional alteration best seen in drill core within and above the 200 pit area. In drill core there is a general decrease in the degree of silicification downward from quartz+c1ay+pyrite alteration to friable clay+pyrite+quartz. Crumbly clay+pyrite+quartz grades downward into sericite+clay+pyrite+carbonate and into typical upper zone alteration. Within this transitional zone is an interval of diffuse silica flooding which may correspond with the position' of the silicified zone described below.*

***Flats Zone**: On the broad plateau area at the heads of Creeks 1 to 3 is a poorly exposed zone of quartz-sericite-pyrite alteration known as the Flats Zone. The zone is hosted within volcaniclastic breccias of unit la and overlying flows or sills of unit Id. From DDH93-1 it is apparent that the Flats zone dips approximately 40 degrees to the southeast and is overlain by unaltered sedimentary rocks of unit 4.*

*Alteration near the base of the Flats zone comprises buff, fine-grained quartz-sericite with druzy milky-white quartz filled cavities and crustiform veining up to 3cm wide, and 5 to 20% fine grained disseminated pyrite within volcaniclastic breccias of unit la. Higher in elevation, pods of clay-pyrite±quartz alteration are exposed near the top of Creek 3, and consist of crumbly white to grey rock with very fine grained disseminated pyrite, surrounded by a broad area of very pale yellow clay-soil. Several resistant pods of grey silica were also located within this area, but are typically very small (<5m wide). In drill core the Flats zone is characterized by competent intervals of quartz+potassium-feldspar+pyrite within less competent sericite+clay+pyrite±carbonate alteration. Sulphide bearing quartz and quartz-carbonate and carbonate veins less than 5cm wide are present within these types of alteration.*

*Previous drilling by Lac in 1987 and 1988, indicates the zone to have relatively uniform high background gold values in the order of 390 ppb Au over 120m (DDH 87-8), with rare higher grade pods. On surface, 1992 rock samples returned relatively low gold values, with a maximum of 393 ppb Au.*

***Silicified Zone**: The silicified zone is exposed along the base of Bald Bluff and Felsite Hill. It is hosted by sedimentary rocks of unit 4 and volcanic rocks of unit 1. Above the "200 pit" area the trace of the silicified zone was intersected in drill core and consisted of grey, intense silicification hosting very fine-grained disseminated pyrite. The upper and lower margins of the silicified zone display evidence of brecciation with coarse-grained pyrite and barite filling open cavities.*

*On surface, a poorly exposed zone of friable, recessive weathering alteration corresponds to the trace of the silicified zone. In drill core this zone, up to 70 metres wide, is marked by a general decrease in the degree of silicification downward from quartz+clay+pyrite alteration to friable clay+pyrite+carbonate quartz which grades into typical upper zone alteration. This zone is also characterized by a carbonate stockwork composed of white to pink calcite veins 1 to 2 centimetres wide and abundant pyrite vein1ets above and below the silicified zone. In addition, within this envelope several intervals of silicification occur above the main silicified zone.*

*From surface exposure and the intersection of the silicified zone in core it is apparent that it is semiconformable to stratigraphy, striking northeast and dipping 15 to 20 to the southeast. Gold values within the zone are variable, and locally show a moderate correlation with pyrite content. The highest values lie in Creek 4 and below Felsite Hill, where silicified rocks carry 5 to 10% pyrite, and values reach 1920 ppb Au. To the east and west along strike, pyrite content decreases to less than 3%, and gold values are less than 110 ppb.*

***Felsite Hill:** Alteration on Felsite Hill forms a broad, north trending oval zone approximately 550m wide by 900m long, which cross-cuts stratigraphy. Alteration on Felsite Hill is hosted by sedimentary rocks of unit 4 hornblende-feldspar-phyric flows or sills of unit 1d and pyroxene-plagioclase-phyric flows or sills of units 2a. The dominant alteration assemblage on Felsite Hill is intense quartz-clay-pyrite, with smaller zones of quartz-clay±pyrite and clay±quartz* *alteration. A small isolated pod of quartz-pyrite alteration similar to the Silicified Zone is exposed in the central part of Felsite Hill.*

*Quartz-clay-pyrite alteration is texturally destructive with relict feldspar and fragment outlines present only on weathered surfaces, or near alteration boundaries where the intensity of silicification decreases. The assemblage is composed of fine grained blue to grey silica, grey to white clay and up to 15% very fine grained disseminated pyrite.*

*Quartz-clay±pyrite alteration overlies and extends to the southeast of quartz+clay+pyrite alteration; from drill core (DDH93-5) it is apparent that this type of alteration cuts quartz+clay+pyrite alteration along vertical structures which narrow at depth. Alteration varies from intense, vuggy and texturally destructive to more moderate intensities showing relict primary textures and isolated pods of fine grained pyrite. In the former, the rock is made up of up to 70% fine grained white to buff quartz with abundant small cavities, possibly reflecting where clay has been leached from primary mineral pseudomorphs. Textures are better preserved where clay content increases. Pyrite occurs as fine grained disseminated euhedral crystals up to 25% but more typically ranges from trace to 3%. Small pods of chalcedonic grey silica and white amorphous clay veinlets have been identified in outcrop.*

*Clay±quartz alteration varies dramatically in intensity along the southern margin of alteration on Felsite Hill. Clay is soft, amorphous and green to maroon in colour. The alteration is hosted within interfingered maroon siltstones and conglomerates, which show well preserved primary textures. On the West side of Felsite Hill, is a small pod of clay-quartz altered fine grained sediments with carbonaceous partings, exposed within quartz-clay-pyrite alteration. This alteration varies from clay-quartz to clay, and is more granular in nature than the soft amorphous clay typically seen elsewhere on Felsite Hill. On the top of Bald Bluff are patchy zones of moderate quartz-clay-pyrite±sericite- chlorite alteration which display textural similarities to alteration on Felsite Hill and in the UAZ.*

***Rojo Grande****: Alteration on Rojo Grande forms a more irregular zone than on Felsite Hill, extending from Rojo Grande peak west to Rojo Chico, and then south onto Goat Peak. The zones are thought to be hosted within pyroxene-feldspar phyric flows of Unit 2a and sediments of Unit 4. Well preserved sedimentary textures are visible along the south and northeast* *margins of Rojo Grande peak, however within the alteration zone most primary lithologic features have been destroyed. The style of alteration is similar to that on Felsite Hill with quartz-clay-pyrite as the dominant assemblage, hosting pods and patches of quartz-clay±pyrite and minor clay±quartz alteration. Several zones of intense quartz±pyrite alteration occur as narrow north-trending linears within the quartz-clay- pyrite halo. Alteration consists of fine-grained grey to blue quartz, white to pale grey amorphous clay and 1 to 15% finely disseminated pyrite.*

*Rojo Chico is situated west-northwest of Rojo Grande and consists of quartz-clay-pyrite alteration. Alteration is typically massive and granular in appearance, and consists of fine grained, blue-grey quartz, 2 to 10% fine grained disseminated pyrite and white amorphous clay. The Zone forms a small, but prominent resistant red knob approximately 75m wide by 100m long that is completely surrounded by talus. South of Rojo Chico, alteration forms a 150m wide band extending south to Goat Peak.*

*Along the east-northeast side of Goat Peak a prominent zone of quartz+clay+pyrite alteration appears to strike towards Rojo Chico. This linear zone cuts across the West Hank fault along the base of Goat Peak with no observable offset. Along the ridge line, a quartz+clay+pyrite assemblage alters aphyric amygdaloidal flows of Unit 5a. This zone includes linear bands of unaltered flows striking 1700 and dipping vertically.*

*Adjacent to the West Hank Fault, immediately south of the Hank claims, is a zone of quartz-clay+pyrite altered rocks. Within this zone, white amorphous clay pods and veins up to 2cm wide are observed adjacent to a zone of brecciation measuring 1m by 4m. The clasts in this breccia are altered to quartz-clay and cemented by fine grained grey quartz. A 1cm wide vein of light brown sugary crystals also occurs adjacent to the breccia, and has been identified by XRD as a combination of natroalunite and dickite (Kaip and McPherson, 1993).*

*Rock samples from both Rojo Chico and Rojo Grande returned relatively low gold values (less than 210 ppb Au), but Rojo Chico also has very high mercury values (up to 472 ppm Hg). Rock samples from Rojo Grande carry more moderate mercury values.*

*Based on the vein mineralogy, alteration and other characteristics, the Hank mineralization fits* *in the "Carbonate–Base-Metal– Au" epithermal class of deposits, which includes important deposits in the circum-Pacific region such as parts of Porgera, Mt. Kare, Kelian, Victoria-Lepanto and others.*

# 9. CURRENT WORK PROGRAM

Ridgeline Exploration Services Inc. was retained by Golden Ridge Resources Ltd. to manage a geochemical and geophysical work program on the Property during the period from August 25 – September 3, 2016. The objectives of the work program were to:

1. Prospect and sample the various mineralized zones defined by previous operators, in order to establish the geological context, controls on mineralization and potential of the untested targets.
2. Expand the existing soil geochemical grid to the borders of the Property and extend the open geochemical anomalies.
3. Conduct a deep-seeking 3D IP survey over the bonanza-style conceptual target of the shallow-dipping UAZ intersecting a postulated feeder vent at depth below Felsite Hill.

## 9.1 *SOIL SAMPLING*

Soil samples were collected on 50m centers on NW-SE oriented lines spaced 200m apart. Southeast of Hank Creek, the 2016 work extended the historic soil lines completed by Lac Minerals in 1983 and 1984 on the main Au trend (Figure 9.1). Northwest of Hank Creek, a soil grid was established in order to follow up on a previous reconnaissance soil line completed in 2014 which returned anomalous Au, Ag, Cu and As (Figure 9.2). A total of 367 soil samples were collected, including lab duplicates for QA/QC.

Soil samples were collected from the B-horizon wherever possible, except in alpine areas where soil horizons are immature or not developed, in which case the samples were logged as either C-horizon or talus fines depending on grain size. Samples were collected using either a dutch auger from mature soils or with a Bush-Pro® shovel from immature soils, i.e. scree slopes, etc. A small portion of the samples were collected in wet, swampy areas, in which case the A-horizon was sampled. All soil samples were placed in labelled kraft bags, and sample sites marked in the field with labelled pink flagging. UTM coordinates of sample sites were marked in handheld GPS devices and sample descriptions, including: colour, grain size, depth, horizon, sample quality, remarks and photo were recorded on Android devices in the field.

## 9.2 *PROSPECTING/ROCK SAMPLING*

A total of 49 rock grab samples were taken from across the Property for geochemical analysis. The aim of the rock sampling was to understand the style and tenor of mineralization around the 200 and 440 Pits and to prospect for additional mineralized zones elsewhere on the Property. Four mandays total were spent prospecting; two on the northern end of the UAZ, around creeks 10, 11 and 12 and two on the southern end around Felsite Hill, the Silicified Zone and the 200/440 Pits. In addition, bedrock samples were also collected by soil samplers while on traverse, whenever significant mineralization, alteration or veining was observed in outcrop. 20 rock samples were taken northwest of Hank Creek, along the base of strongly quartz-calcite veined cliffs, near the top of the slope.

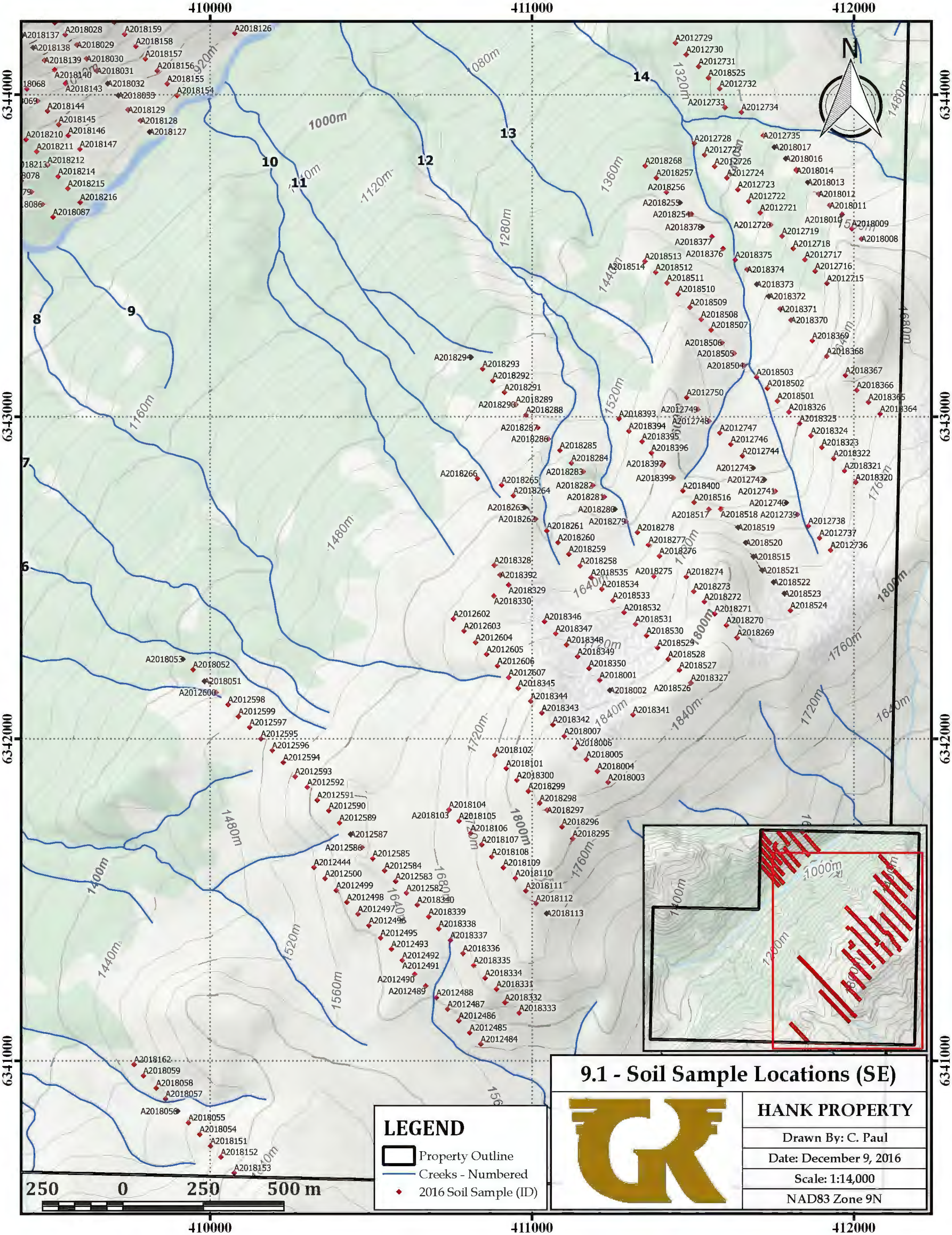
### *9.2.1 SAMPLE SECURITY AND ANALYSIS*

Following completion of the field work, rock and soil samples were transported to ALS Minerals' sample preparation facility in Terrace, BC for preparation and shipment to North Vancouver for analysis. All soil samples were prepared as pulps in Terrace by drying and sieving each to -80 mesh.

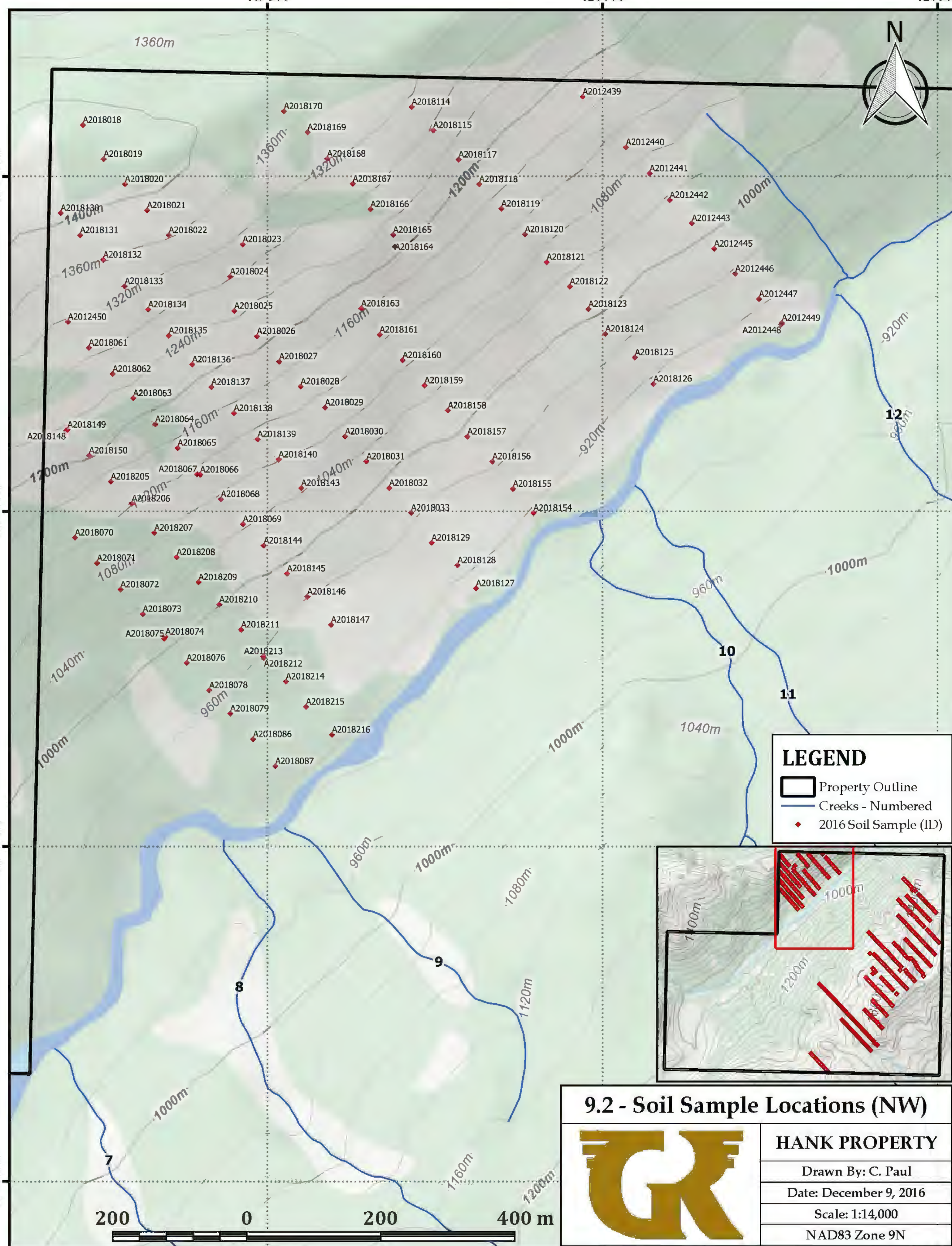
For Au analysis, a 30g aliquot of the pulp was mixed with litharge, soda ash, borax, silica, silver and various other essential reagents, and then fused to produce a lead button. The precious metal-containing lead "button" was cupelled to remove the lead and yield a bead containing the Au and Ag. The bead was then digested with nitric acid and hydrochloric acid in a microwave. After the digestion was complete, the solution was bulked up to volume with dilute hydrochloric acid. The final solution was then analyzed by Inductively Coupled Plasma-Atomic Emission Spectroscopy.

For multi-element analysis, other than Au, a 0.5g aliquot of the pulp was digested under heat in an aqua regia solution. Following digestion, the sample was made up to volume with deionized water and analyzed for 50 elements by both ICP-AES and ICP-MS (ultra-trace).

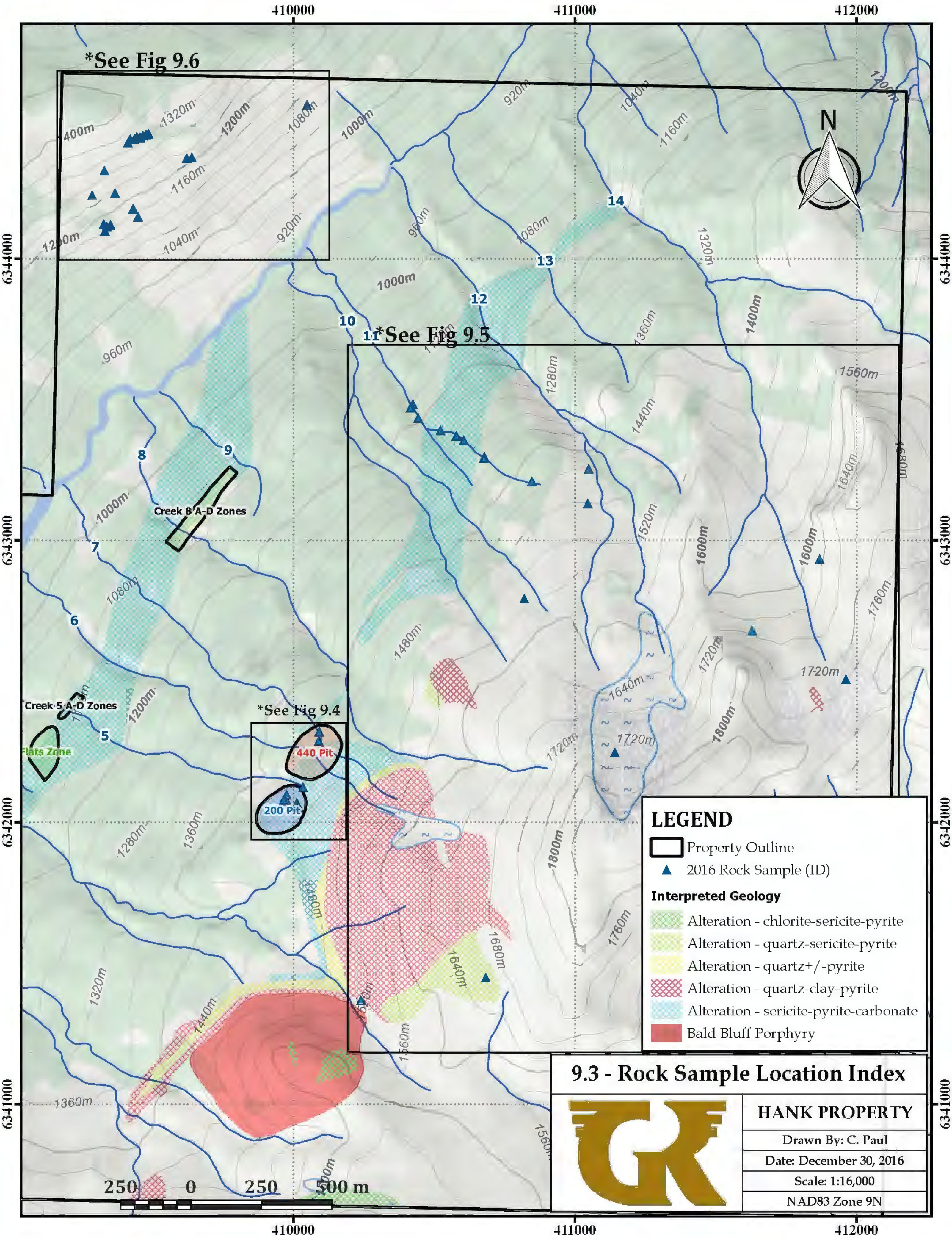
Rock samples were dried and crushed to 70% passing 2mm and a 250 gram split of the crushed material was pulverized to 85% passing 75µm. Following the preparation, a 15 gram aliquot of the pulverized material was digest in a hot 3:1 ($HCl:HNO_3$) aqua regia bath for 1 hour. Upon completion of the digestion, the resulting solution was made up to volume with deionized water and analyzed by both ICP-AES as well as ICP-MS for ultra-trace levels.



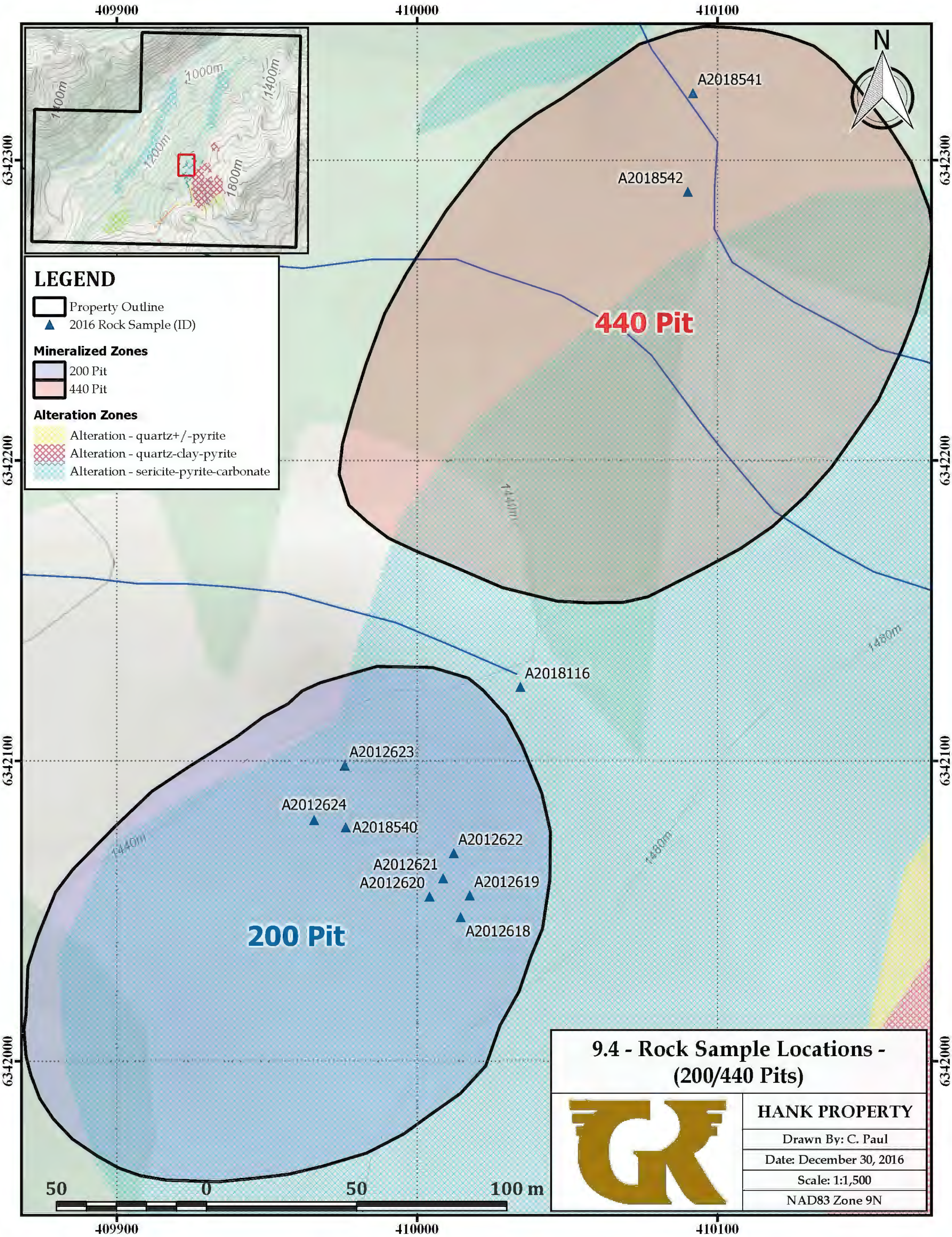
9.1 - Soil Sample Locations (SE)
HANK PROPERTY
Drawn By: C. Paul
Date: December 9, 2016
Scale: 1:14,000
NAD83 Zone 9N
LEGEND
Property Outline
Creeks - Numbered
2016 Soil Sample (ID)
250 0 250 500 m
410000
411000
412000
6344000
6343000
6342000
6341000
N

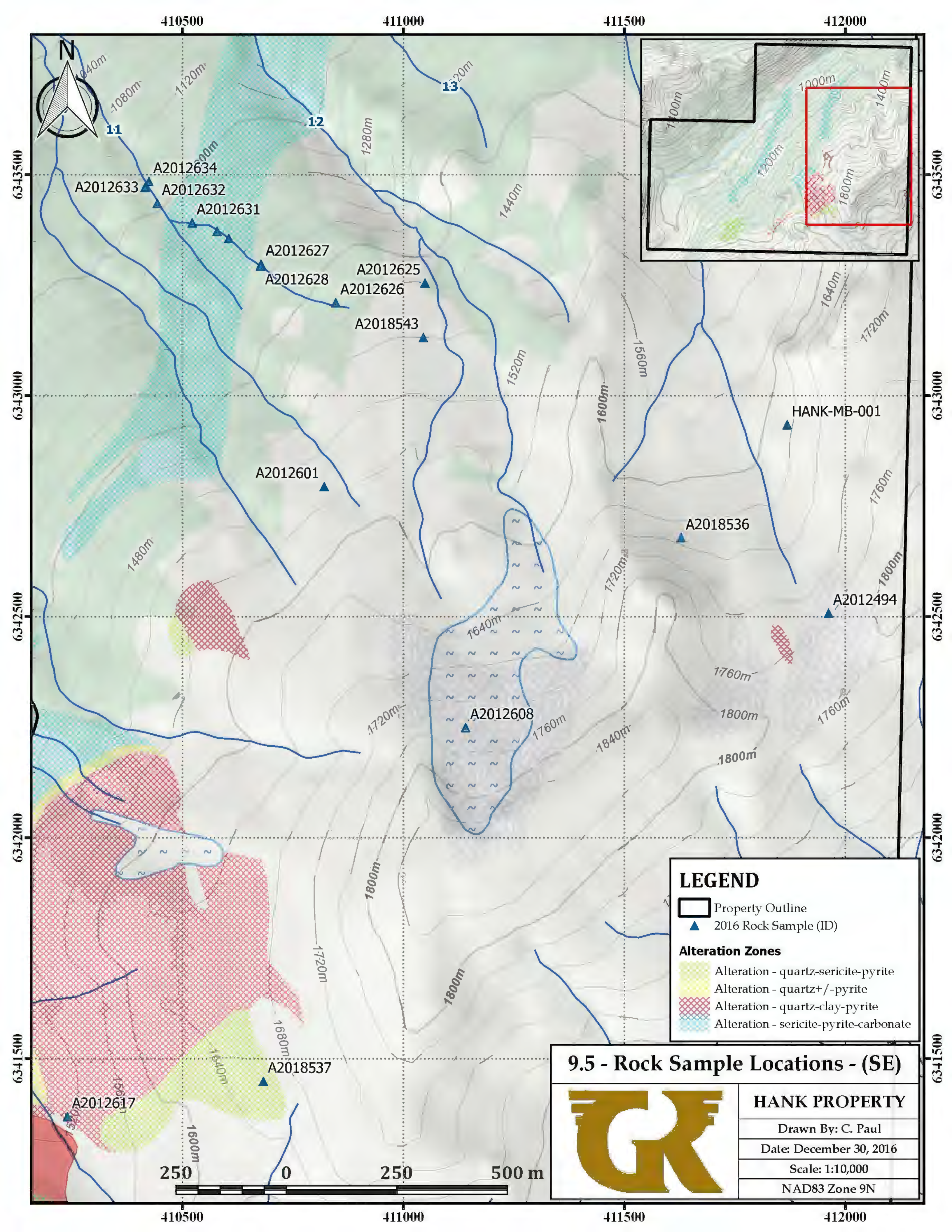



9.2 - Soil Sample Locations (NW)

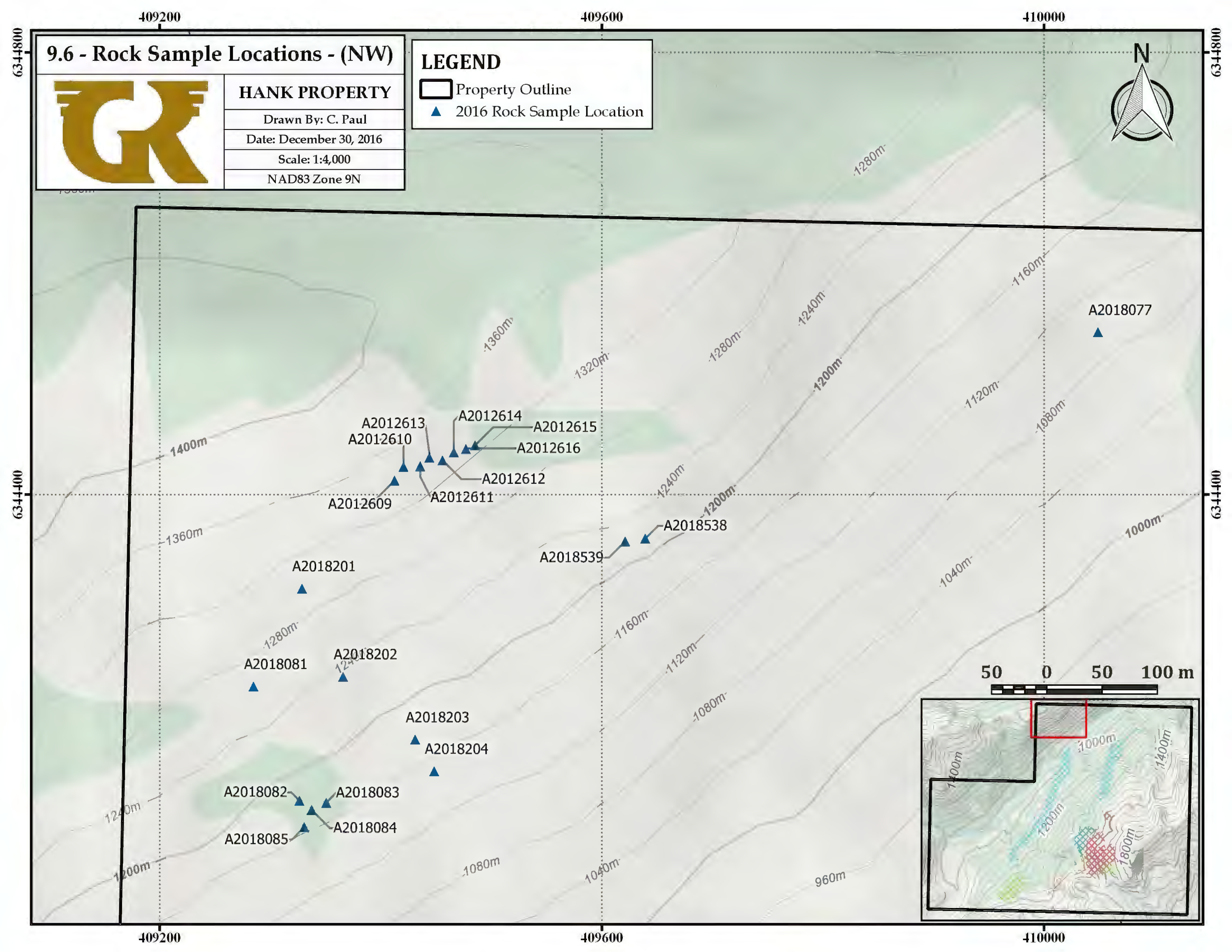


9.3 - Rock Sample Location Index
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:16,000
NAD83 Zone 9N
LEGEND
Property Outline
2016 Rock Sample (ID)
Interpreted Geology
Alteration - chlorite-sericite-pyrite
Alteration - quartz-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
Bald Bluff Porphyry
*See Fig 9.6
*See Fig 9.5
*See Fig 9.4
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit
N
250
0
250
500 m
410000
411000
412000
6344000
6343000
6342000
6341000


409900
410000
410100
6342300
6342200
6342100
6342000
N
1000m
1400m
1200m
1800m
LEGEND
Property Outline
2016 Rock Sample (ID)
Mineralized Zones
200 Pit
440 Pit
Alteration Zones
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
A2018541
A2018542
440 Pit
1440m
1480m
A2018116
A2012623
A2012624
A2018540
A2012622
A2012621
A2012620
A2012619
A2012618
200 Pit
50
0
50
100 m
9.4 - Rock Sample Locations - (200/440 Pits)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:1,500
NAD83 Zone 9N



410500
411000
411500
412000
6343500
6343000
6342500
6342000
6341500
N
A2012634
A2012633
A2012632
A2012631
A2012627
A2012628
A2012625
A2012626
A2018543
HANK-MB-001
A2012601
A2018536
A2012494
A2012608
A2018537
A2012617
11
12
13
250 0 250 500 m
LEGEND
Property Outline
2016 Rock Sample (ID)
Alteration Zones
Alteration - quartz-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
9.5 - Rock Sample Locations - (SE)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:10,000
NAD83 Zone 9N


9.6 - Rock Sample Locations - (NW)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:4,000
NAD83 Zone 9N
LEGEND
Property Outline
2016 Rock Sample Location
N
409200
409600
410000
6344800
6344400
A2018077
A2012613
A2012614
A2012615
A2012610
A2012616
A2012612
A2012611
A2012609
A2018538
A2018539
A2018201
A2018081
A2018202
A2018203
A2018204
A2018082
A2018083
A2018084
A2018085
1400m
1360m
1320m
1280m
1240m
1200m
1160m
1120m
1080m
1040m
1000m
960m
50
0
50
100 m

## 9.3 *IP SURVEY*

Between August 25th and September 3rd, 2016, Peter E. Walcott & Associates Limited undertook induced polarization surveying over parts of the Hank Property for Golden Ridge Resources Ltd. 12 line kilometers of deep penetrating induced polarization surveying were conducted on 4 northeasterly oriented lines spaced between 200 and 400 meters apart. The survey was designed to attempt to delineate deep resistivity features beneath Felsite Hill, the LAZ and UAZ, which are potentially associated with a feeder vent located beneath a hydrothermal breccia pipe on Felsite Hill.

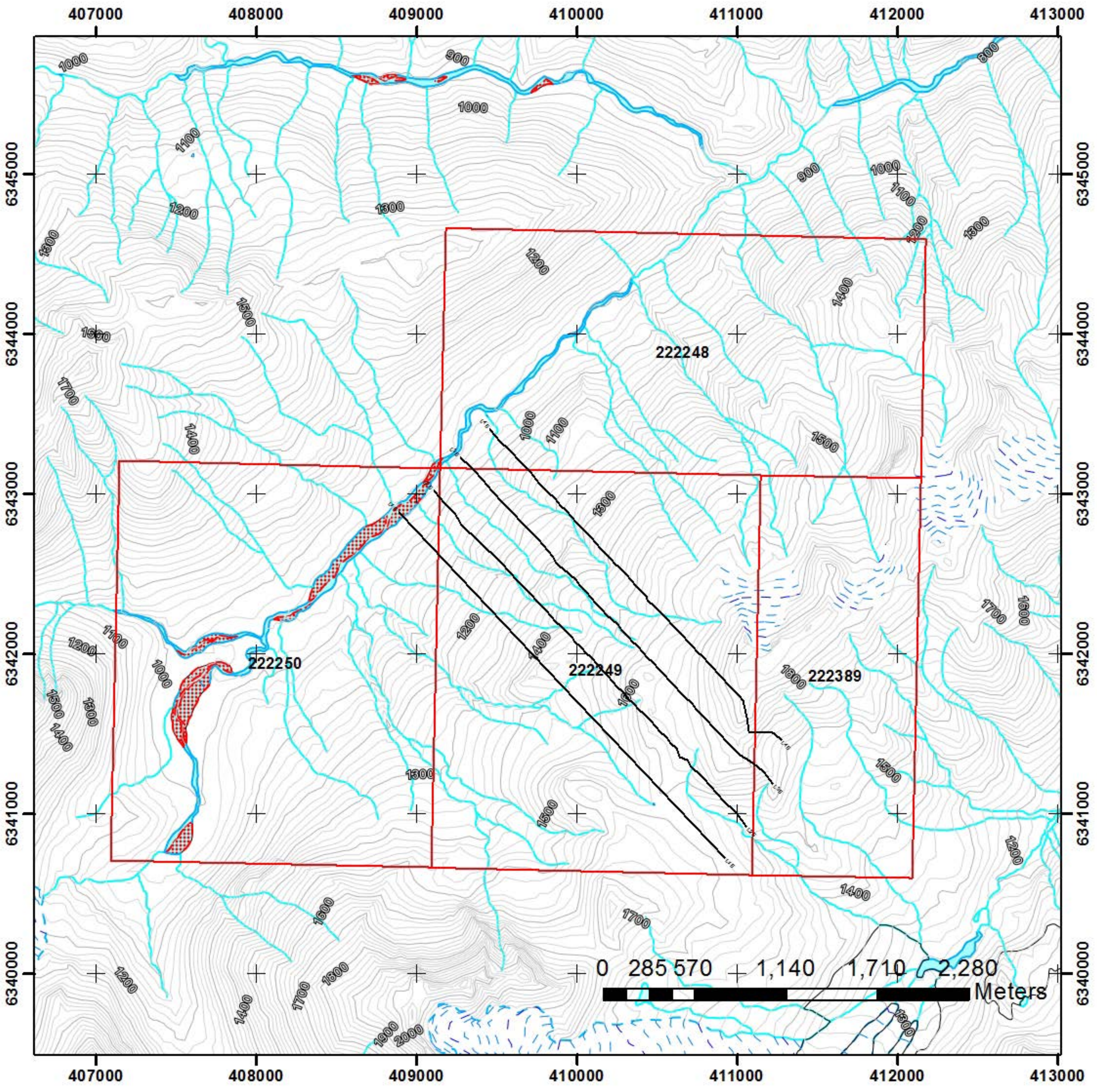



**Figure 9.6 – 2016 IP Survey Lines**

### *9.3.1 SURVEY SPECIFICATIONS*

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). On this survey two transmitters used in series providing a maximum of 8.6 kW DC to the ground, obtains their power from two 7.5 kW 60 c.p.s. alternators driven by Honda 14 h.p. gasoline engines. 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 $C_1$ and $C_2$, the primary voltages (V) appearing between any two potential electrodes, $P_1$ through $P_5$, during the “current-on” part of the cycle, and the apparent chargeability, ($M_a$) 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 – at any time.

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 surveying was carried out using the “pole-dipole” / “dipole-pole” method of survey. With the pre-laid receiver array remaining stationary, the current $C_1$ is moved along the survey lines at a spacing of “a” (the dipole) apart, while the second current electrode, $C_2$, is kept constant at “infinity”.

As the current ($C_1$) is injected between the respective potential electrodes, and the receiving array is stationary, both pole-dipole and dipole-pole geometries can be measured with the maximum “n”-separation, a function of the length of the receiver array which on this survey was “n” = 19.5, depending on the injection placement.

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-meter dipole separation was utilized.

**Photo 1 – Prospecting the 200 pit area, location of 4790 g/t Ag and 66.9 g/t Au grabs**


**Photo 2 – View NW across Hank Creek at the newly discovered "Copper Zone"**

**Photo 3 – View west toward the glacial headwaters of Hank Creek**

**Photo 4 – An altered, permeable-looking volcaniclastic unit underlying massive andesite flows suggests a possibly stratigraphic control to the hydrothermal fluid flow at Hank**

**Photo 5 – Pounding IP electrodes into Felsite Hill**

**Photo 6 – Diamond drill core from historic programs remains on the Property**

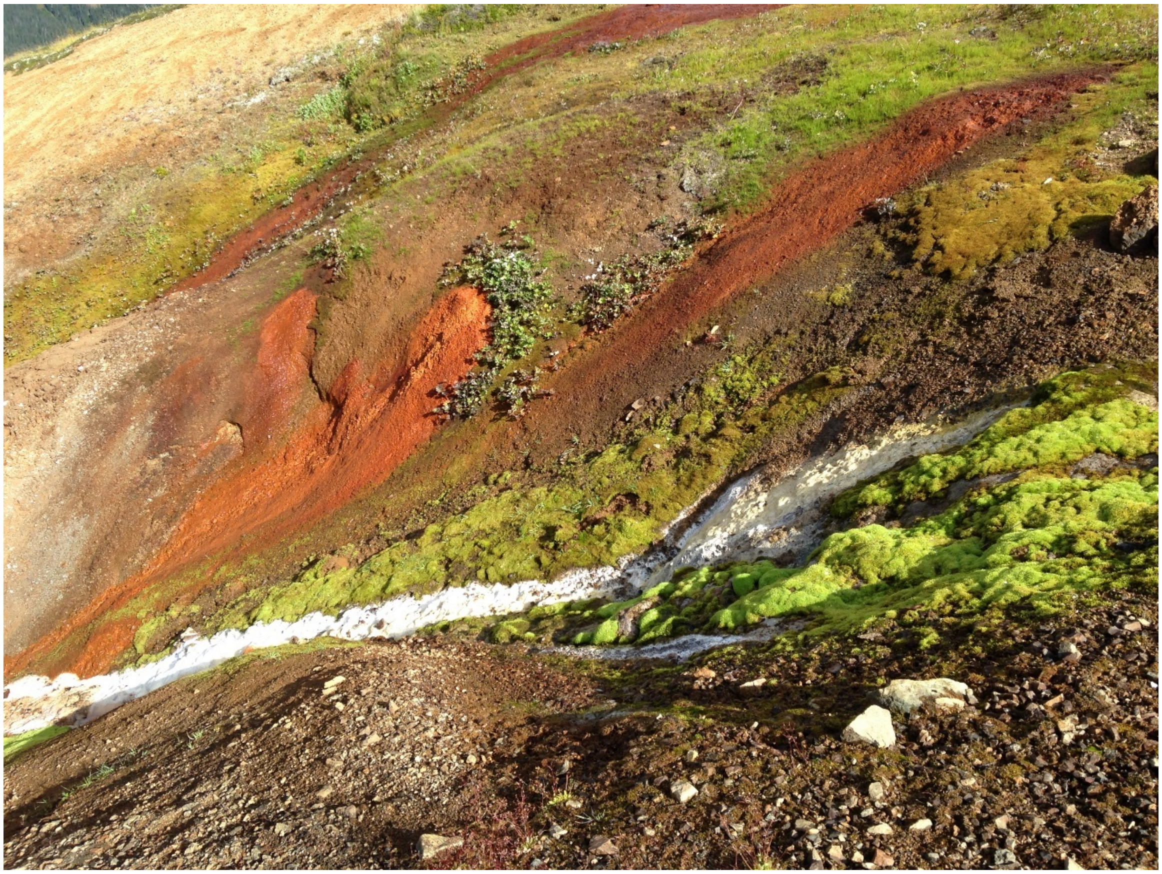


**Photo 7 – Siliceous precipitates and ferricrete in the headwaters of Creek 10.**

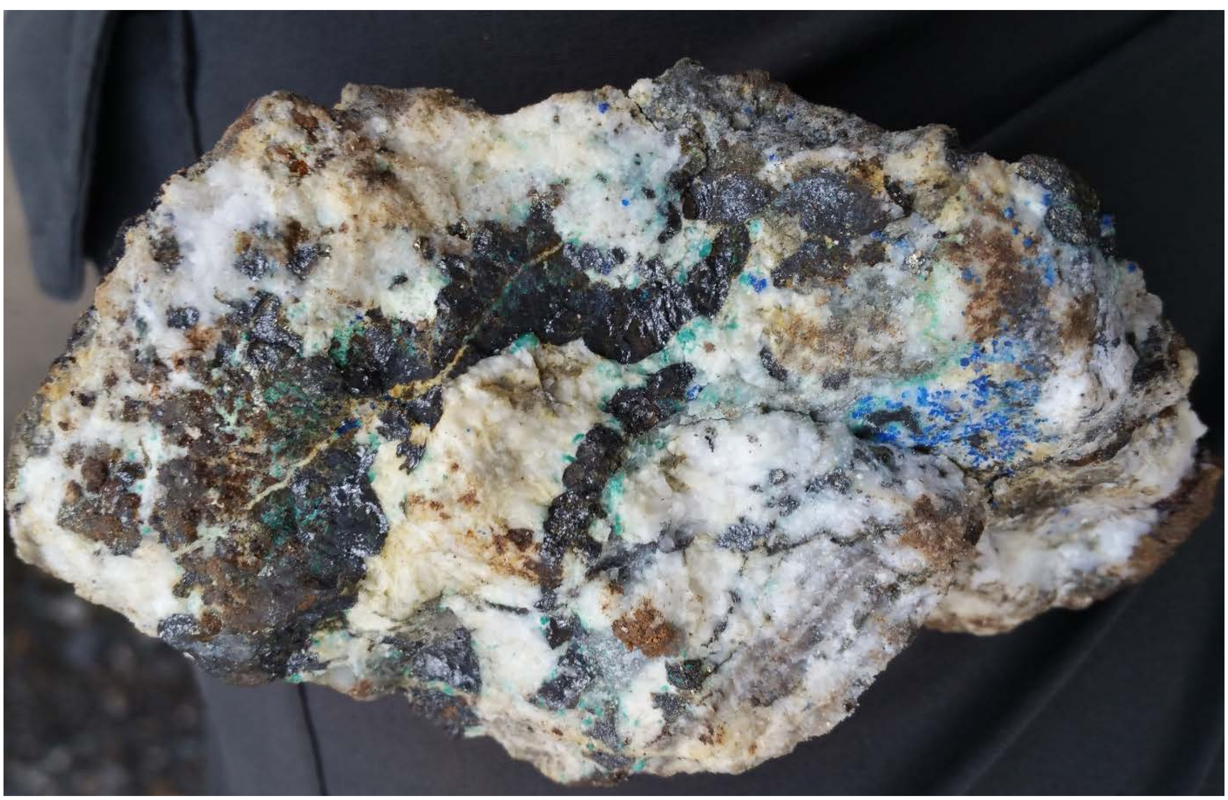


**Photo 8 – Tetrahedrite-bearing quartz-calcite vein in 200 pit assaying 4790 g/t Ag, 25.8 g/t Au**

# 10. RESULTS & INTERPRETATION

## 10.1 *SOIL SAMPLING*

The 2016 soil samples expanded on existing historic soil lines and were mostly collected on the periphery of the Property, away from the known mineralized zones (Figures 9.1, 9.2). The exception is northwest of Hank Creek, where a grid of samples was taken around a single reconnaissance soil line completed in 2014 which returned anomalous Cu, Au, Ag and As. One of the periphery lines was extended northwest between and downslope of the 200 and 440 pits, as an orientation line to establish the geochemical response over the known mineralization.

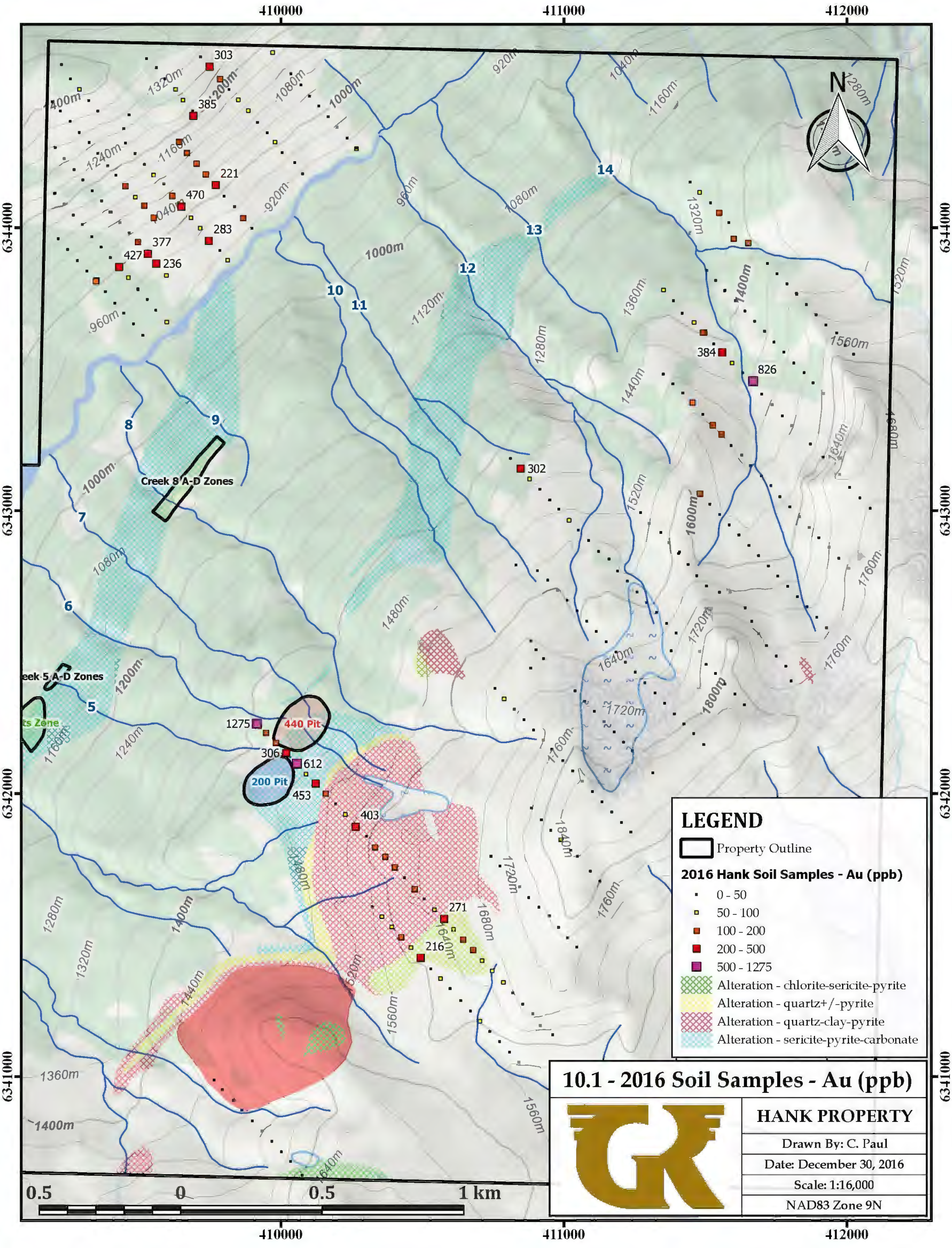
### *10.1.1 GOLD*

Three areas anomalous in gold were defined by the 2016 soils (Fig 10.1, Appendix A). The highest Au assay from the whole survey was 1275 ppb and came from the orientation line, immediately downslope of the UAZ, beneath Felsite Hill. Gold values upslope from this sample are also moderate to strongly anomalous for over a km in horizontal distance, including over Felsite Hill and the Silicified Zone. A smaller, more narrow Au anomaly occurs along the NNW-trending Creek 14 in the northeast of the Property. This area has not been sampled historically, and returned values up to 826 ppb Au.

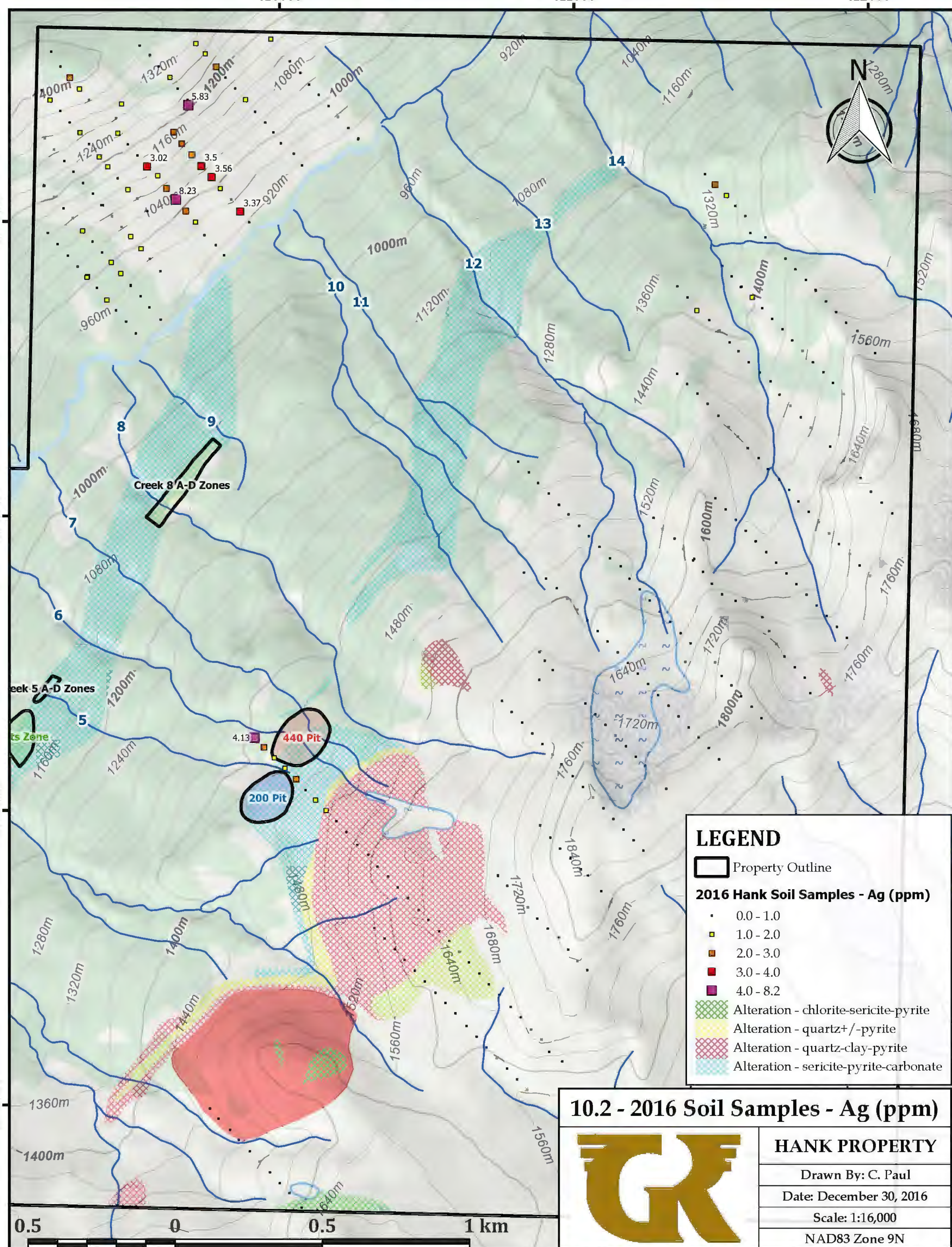
A new zone northwest of Hank Creek, being termed the “Copper Zone”, was defined by the 2016 survey as containing moderate to strongly anomalous Cu, Au, Ag and As. Moderate to strongly anomalous gold values up to 470 ppb occur along a northeasterly trend for over 1 km in strike length in this new zone (Fig 10.1).

### *10.1.2 SILVER*

Two areas of anomalous silver-in-soil are evident in the 2016 survey results (Fig 10.2, Appendix A). As expected, the orientation line returned anomalous Ag up to 4.1 ppm immediately downslope of the 200 and 440 pits, however all other areas sampled SE of Hank Creek contain essentially background values for Ag except for a small spot high on the northernmost line. The highest value from the 2016 survey of 8.2 ppm Ag came from within the Copper Zone. The high value in the Copper Zone occurs alongside a cluster of other high Ag values within the zone.



10.1 - 2016 Soil Samples - Au (ppb)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:16,000
NAD83 Zone 9N
LEGEND
Property Outline
2016 Hank Soil Samples - Au (ppb)
0 - 50
50 - 100
100 - 200
200 - 500
500 - 1275
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
N
0.5
0
0.5
1 km
410000
411000
412000
6344000
6343000
6342000
6341000
Creek 8 A-D Zones
eek 5 A-D Zones
ts Zone
440 Pit
200 Pit
1275
306
612
453
403
271
216
302
384
826
303
385
221
470
283
377
427
236
5
6
7
8
9
10
11
12
13
14




# 10.2 - 2016 Soil Samples - Ag (ppm)

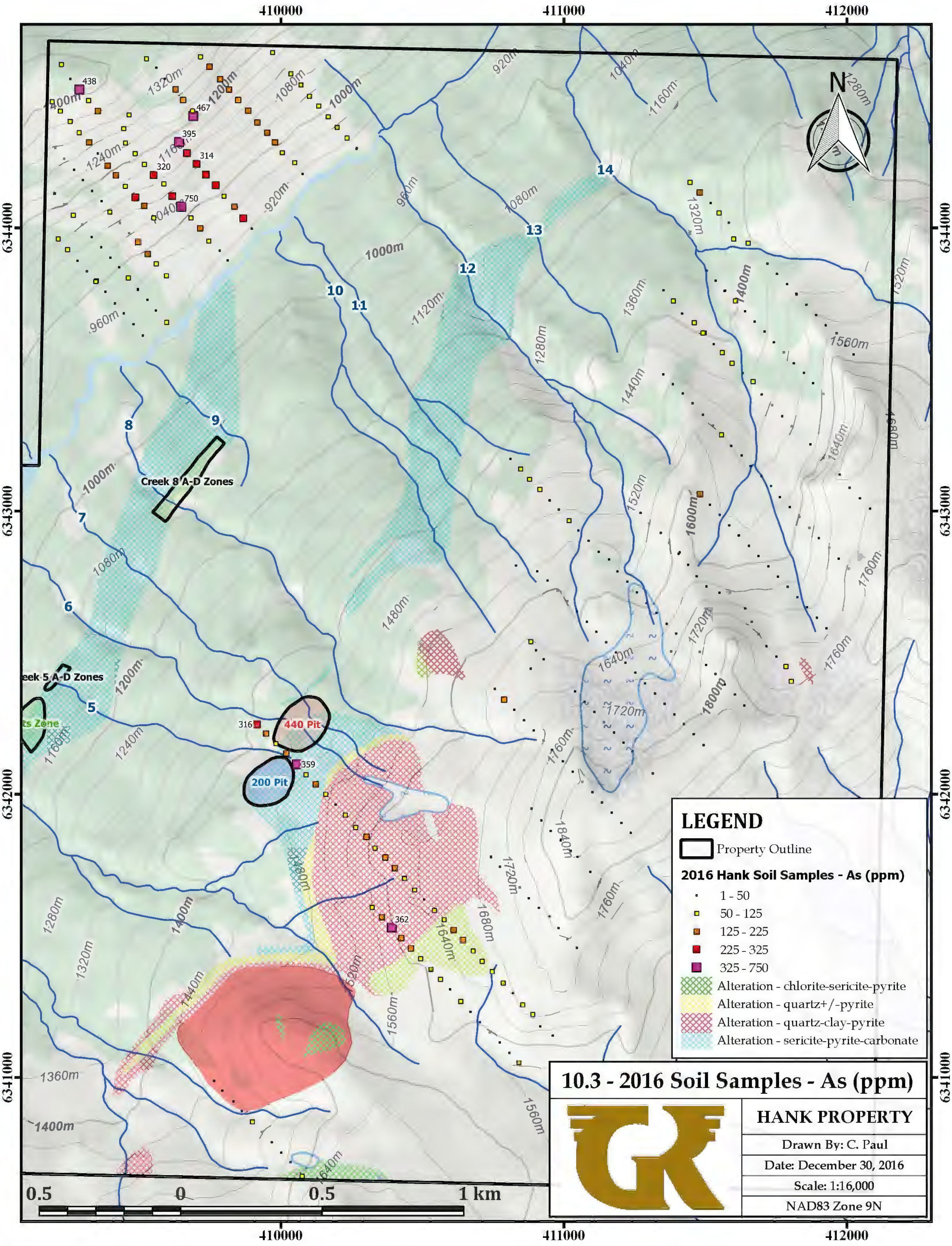
**HANK PROPERTY**

Drawn By: C. Paul

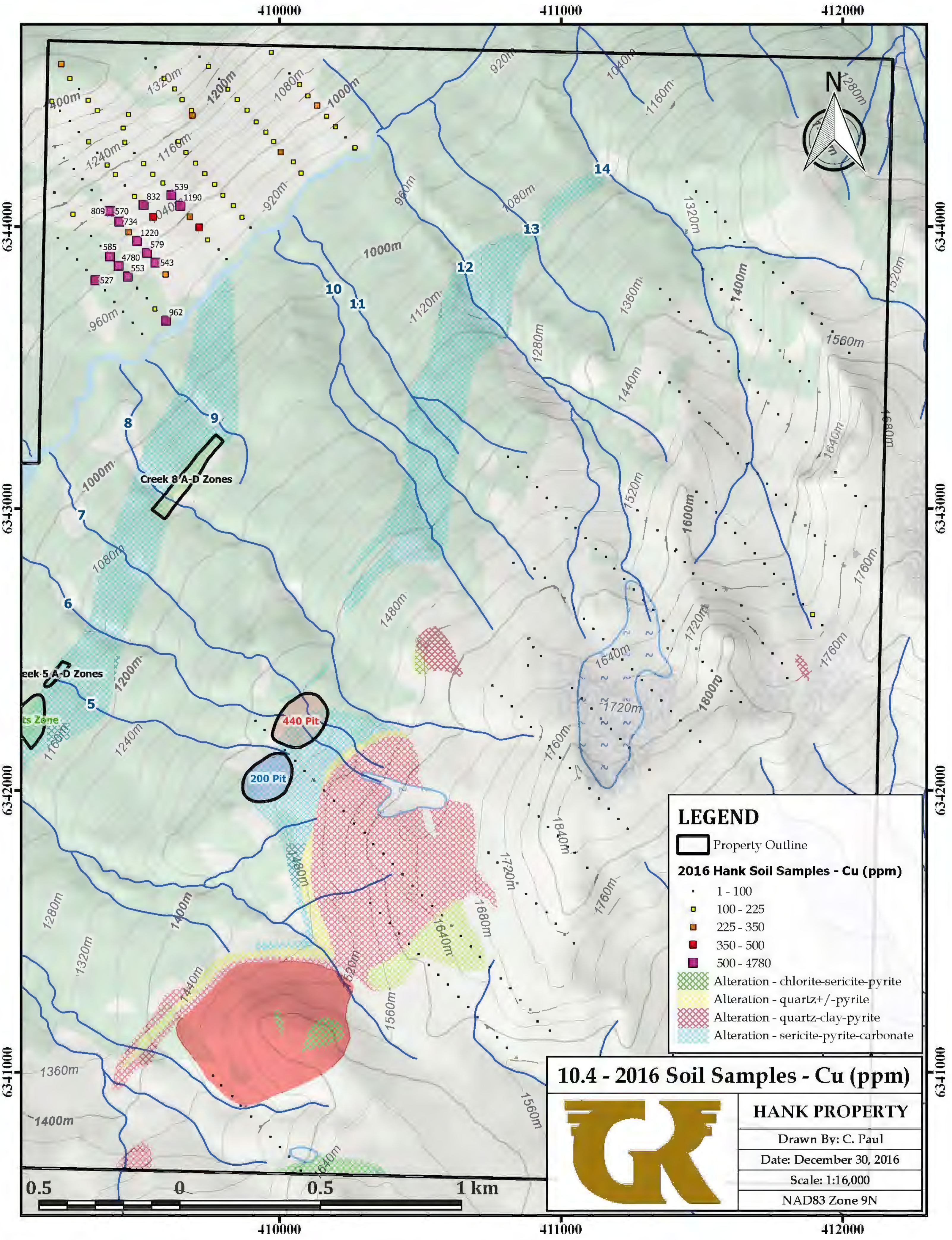
Date: December 30, 2016

Scale: 1:16,000

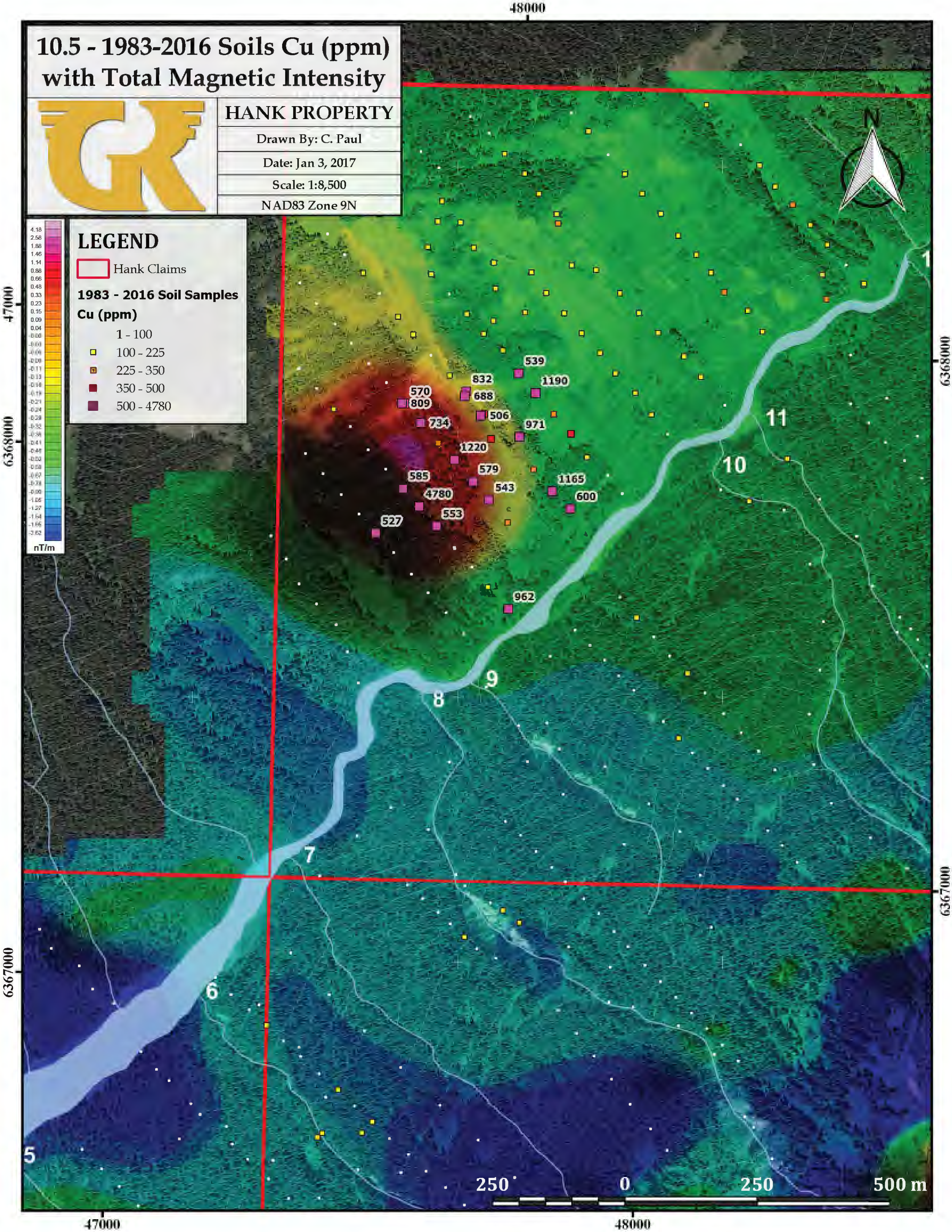
NAD83 Zone 9N



410000
411000
412000
6344000
6343000
6342000
6341000
N
Creek 8 A-D Zones
440 Pit
200 Pit
LEGEND
Property Outline
2016 Hank Soil Samples - As (ppm)
1 - 50
50 - 125
125 - 225
225 - 325
325 - 750
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
10.3 - 2016 Soil Samples - As (ppm)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:16,000
NAD83 Zone 9N
0.5
0
0.5
1 km



410000
411000
412000
6344000
6343000
6342000
6341000
Creek 8 A-D Zones
Creek 5 A-D Zones
440 Pit
200 Pit
N
LEGEND
Property Outline
2016 Hank Soil Samples - Cu (ppm)
1 - 100
100 - 225
225 - 350
350 - 500
500 - 4780
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
10.4 - 2016 Soil Samples - Cu (ppm)
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:16,000
NAD83 Zone 9N
0.5
0
0.5
1 km


10.5 - 1983-2016 Soils Cu (ppm) with Total Magnetic Intensity
HANK PROPERTY
Drawn By: C. Paul
Date: Jan 3, 2017
Scale: 1:8,500
NAD83 Zone 9N
LEGEND
Hank Claims
1983 - 2016 Soil Samples
Cu (ppm)
1 - 100
100 - 225
225 - 350
350 - 500
500 - 4780
nT/m
N
48000
47000
6368000
6367000
250
0
250
500 m
539
832
1190
570
688
809
506
734
971
1220
579
585
1165
543
4780
600
553
527
962
1
5
6
7
8
9
10
11

#### *10.1.3 ARSENIC*

High arsenic-in-soil occurs on the orientation line and upslope through Felsite Hill and the Silicified Zone, where it correlates positively with gold values (Fig 10.3, Appendix A). A second As anomaly from the 2016 survey occurs over a broad area within the Copper Zone, including the highest value from the 2016 survey of 750 ppm. Arsenic also correlates with Au within the Copper Zone, albeit with a larger anomaly size, which may either be due to arsenics greater mobility in the secondary environment or a larger As footprint in the bedrock.

#### *10.1.4 COPPER*

Interestingly, not a single soil sample collected southeast of Hank Creek in 2016 was anomalous in copper. All of the Cu-in-soil values on the southeast side were below 100 ppm (Fig 10.4, Appendix A). Highly anomalous copper-in-soil up to 4780 ppm (0.48% Cu) however was returned from the aptly named Copper Zone. A higher background for copper is also noted, which suggests a different geology across Hank Creek and possibly a significant fault separation across the creek. Copper >500ppm in soil occurs in a NE-SW lens shaped anomaly within the Copper Zone and is coincident with a circular magnetic high from a 2014 airborne magnetic survey by Golden Ridge (Fig 11.1, Appendix A).

## 10.2 *ROCK SAMPLING*

Forty-nine rock samples in total were collected from across the property, including within known mineralized zones around the 200 and 440 pits. As expected, the most considerable Au assays came from the 200 and 440 pits, with the five best grab samples returning values of: 4.1 g/t Au, 5.9 g/t Au, 7.1 g/t Au, 25.8 g/t Au and 66.9 g/t Au (maps included in Appendix A). Elsewhere on the property, Au values were low overall in the limited areas prospected. Anomalous values ranging from 0.1-0.7 g/t Au were sampled on a traverse down Creek 11 as well as select samples taken from below quartz-carbonate veined cliffs northwest of Hank Creek.

Likewise, significant silver values were only found in the 200 and 440 pits zone. Three very high grade samples, A2012623: 5.9 g.t Au, 1220 g/t Ag, 0.32% Cu, 0.47% Zn, 0.15% Pb, 0.13% Sb, 322 ppm As and A2018540: 25.8 g/t Au, 4790 g/t Ag, 1.60% Cu, 1.14% Zn, 0.35% Pb, 0.95% Sb, 658 ppm As and A2012621: 66.9 g/t Au, 42.3 g/t Ag, 0.31% Zn, were all taken from the 200 pit. The high grade samples were described as: quartz+calcite veins with colloform-banding textures and 1 cm bands of blebby tetrahedrite?, intergrown with chalcopyrite and minor arsenopyrite (Photo 8, cover).

On a Au equivalent basis, A2018540 works out to 99.8 g/t Au-equiv, using current 2016 spot prices of: $1163 Au, 17.11 Ag, $2.59 Cu, $1.06 Pb and $1.25 Zn.

#### *10.2.1 CREEK 11 TRAVERSE*

A sample taken from approximately the halfway point on Creek 11 contained 0.6% Pb and 0.36 g/t Au and was described as: aphanitic green (chlorite altered?) volcanic with medium grained disseminated pyrite cubes (6%) cut by calcite stockwork. A second sample taken of the same rock, but with a greater density of calcite veins, 15m to the northwest, returned 0.51 g/t Au and 382 ppm As. A third sample of similar rock, 50m upstream returned 0.67 g/t Au, with 4.2 g/t Ag and 718 ppm As. The sample was described as large angular float boulders in creek of dark greenish grey silicified rock cut by intense qtz-carb breccia with minor rhodochrosite, which despite having 3% disseminated and blebby Py, are not rusty weathering. All three anomalous samples were taken from weakly altered sulfide-bearing float boulders immediately downstream of the intersection of the UAZ with Creek 11. Three samples taken higher up on the creek, within intensely clay-pyrite altered outcrops of the UAZ, only contained background concentrations of metals.

#### *10.2.2 QUARTZ-CARBONATE CLIFFS*

A cliff exposure containing intense quartz-carbonate veining in volcanic rocks with minor sulphide was noted while soil sampling well above the Copper Zone northwest of Hank Creek. The bedrock along the base of the cliffs was sampled for gold-silver potential by the soil samplers. Only minor gold/silver values were returned from the area including highs of 0.25 g/t Au and 0.28 g/t Au as well as one sample that returned 0.22% Cu and 0.11% Zn. The Cu-Zn sample was described as a grab from a 10m wide zone of intense qtz+cal+/-Fe-carb vein breccia with angular clasts of soft fg dark black (carbonaceous?) material and blebs of chalcopyrite+malachite+azurite in veins. The sample also contained: 4.3 g/t Ag, 434 ppm As and 749 ppm Pb.

## 10.3 *IP SURVEY*

The following section on IP Survey is quoted from A Report on Induced Polarization Surveying, Hank Project, by Alexander Walcott and Peter E. Walcott (Walcott and Walcott, 2016):

> *The 2016 Induced Polarization survey carried out on the Hank property yielded several zones of potential interest, which appear to correspond with known mineralization and alteration zones.*

*Anomaly rHA – is situated on the western end of the survey lines. This northerly orientated resistivity high is apparent on all the survey lines. This feature shows good correlation with the 2014 Terraspec interpreted Muscovite, Paragonite, Phengite mineral assemblage. The inverted response exhibits a dip of some 30-45 degrees' grid east, which is similar to that of known stratigraphy. Historic drill hole intercepts are associated with the LAZ (lower alteration zone), which is situated on the western flank of this high resistivity feature.*

*Anomaly rHB is located grid west of the UAZ (upper alteration zone). The feature is orientated west-northwesterly. The feature appears to truncate prior to Line 3 within the 3D inverted results however a weak feature is observable within the 2D inverted results on L4. The anomaly appears to also dip similarly to Anomaly rHA within the inverted results, however this is only clear on Line 1. This resistivity feature also shows good correlation with the previously mentioned Terraspec interpreted mineral assemblage. The zone also appears to be associated with a zone of elevated magnetics observed within the airborne magnetic data.*

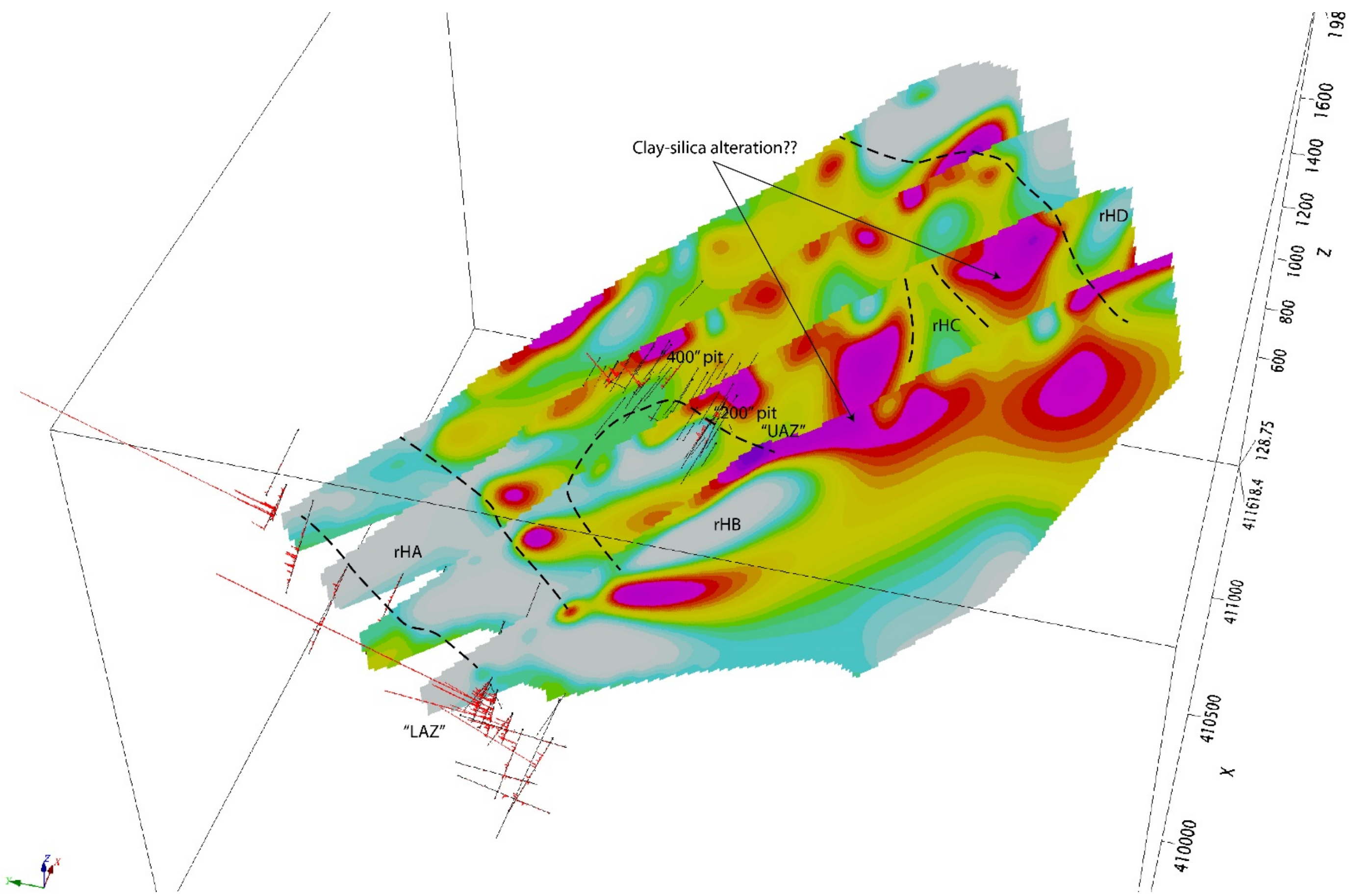



**Figure 10.5 - 3D View of 2D Modelled Resistivity**

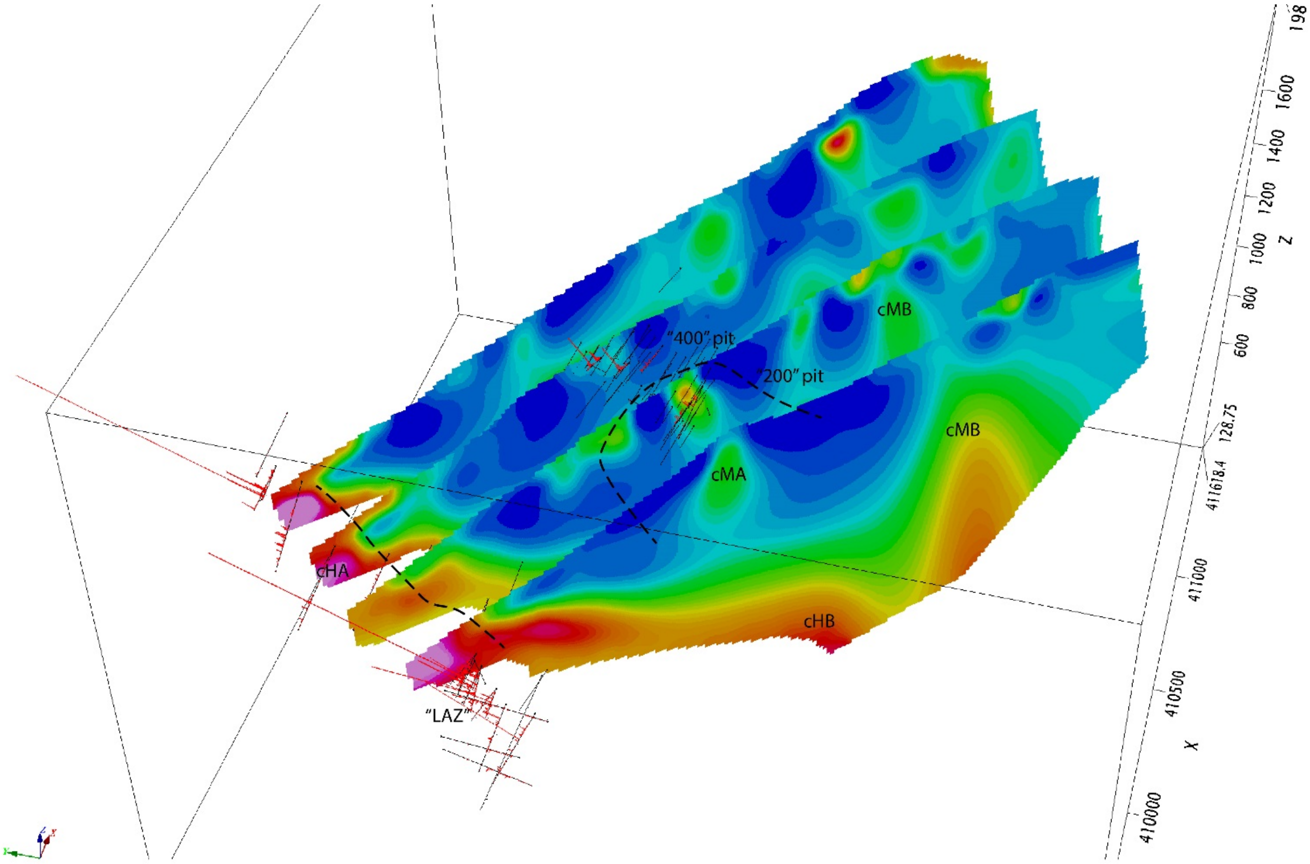



**Figure 10.6 - 3D View of 2D Modelled Chargeability**

*Anomaly cHA appears to be directly associated with the LAZ (py-ser-cb). This moderate to high chargeability is also readily seen on all the survey lines.*

*Anomaly cMA is a weak-moderate chargeability feature which appears to be associated with the UAZ. This narrow anomaly is observable on line 1 and 2 circa station 1450E. The anomaly appears to be situated on the contact between Anomaly rHB and rLA, the latter of which is associated with a clay rich zone. A slightly larger chargeability anomaly is also observed on Line 2 between 1150E and 1300E. Both features are proximal to the "200" and "440" pits.*

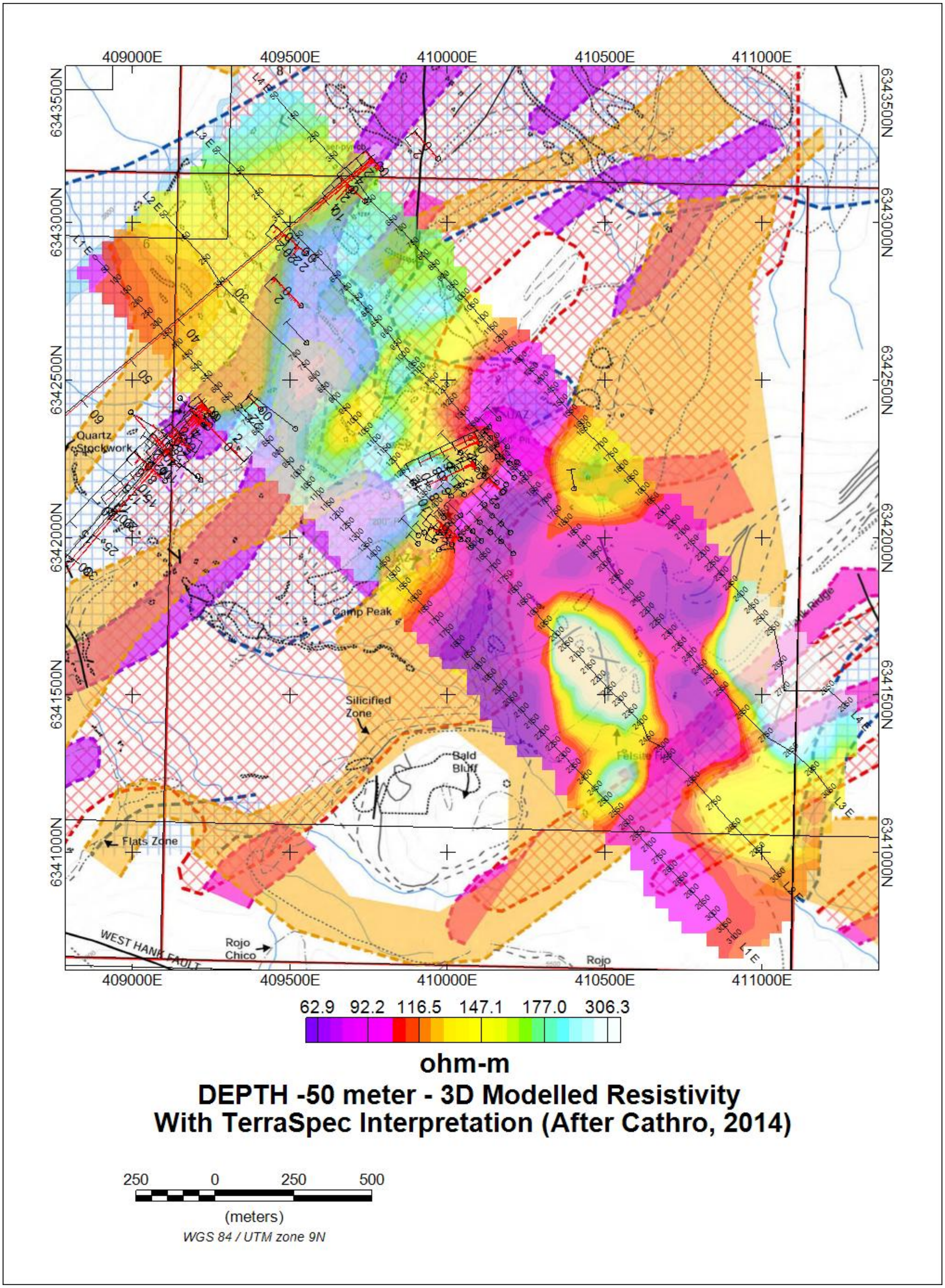



**Figure 10.7 – 50 meter depth slice – 3D Modelled Resistivity**

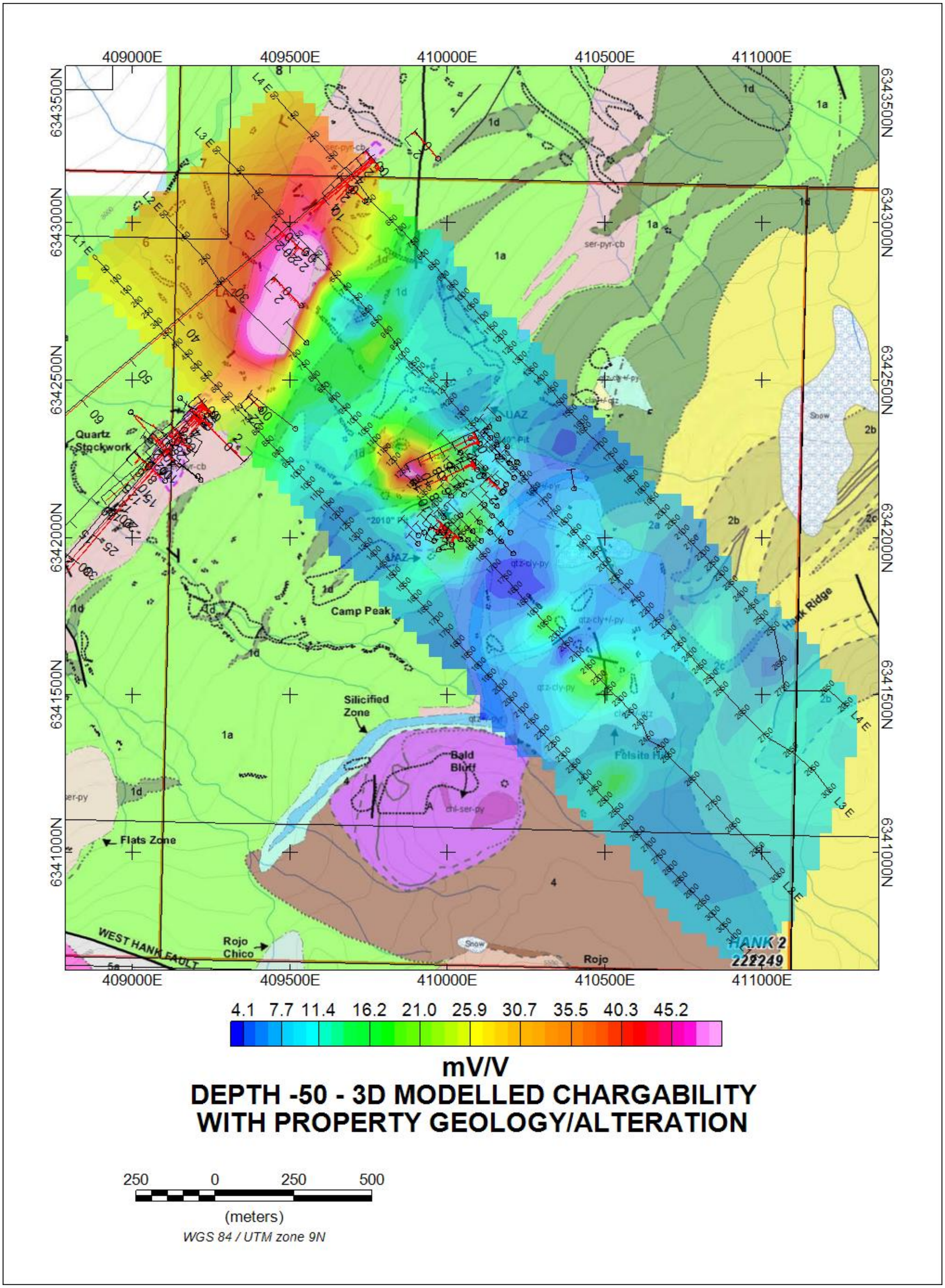



**Figure 10.8 – 50 meter depth slice – 3D Modelled Chargeability**

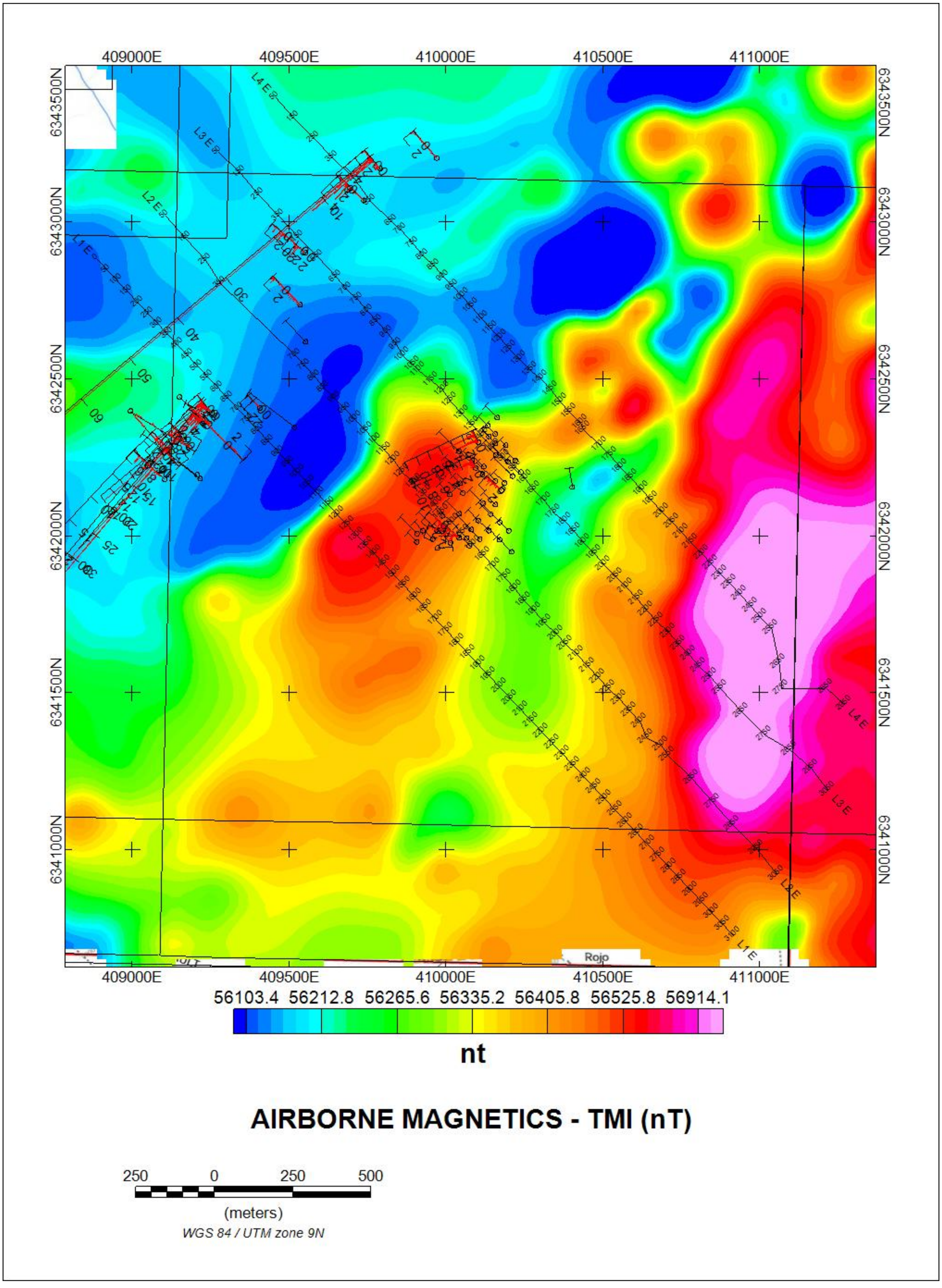



**Figure 10.9 – Airborne Magnetics with Historic Drillholes showing Au values**

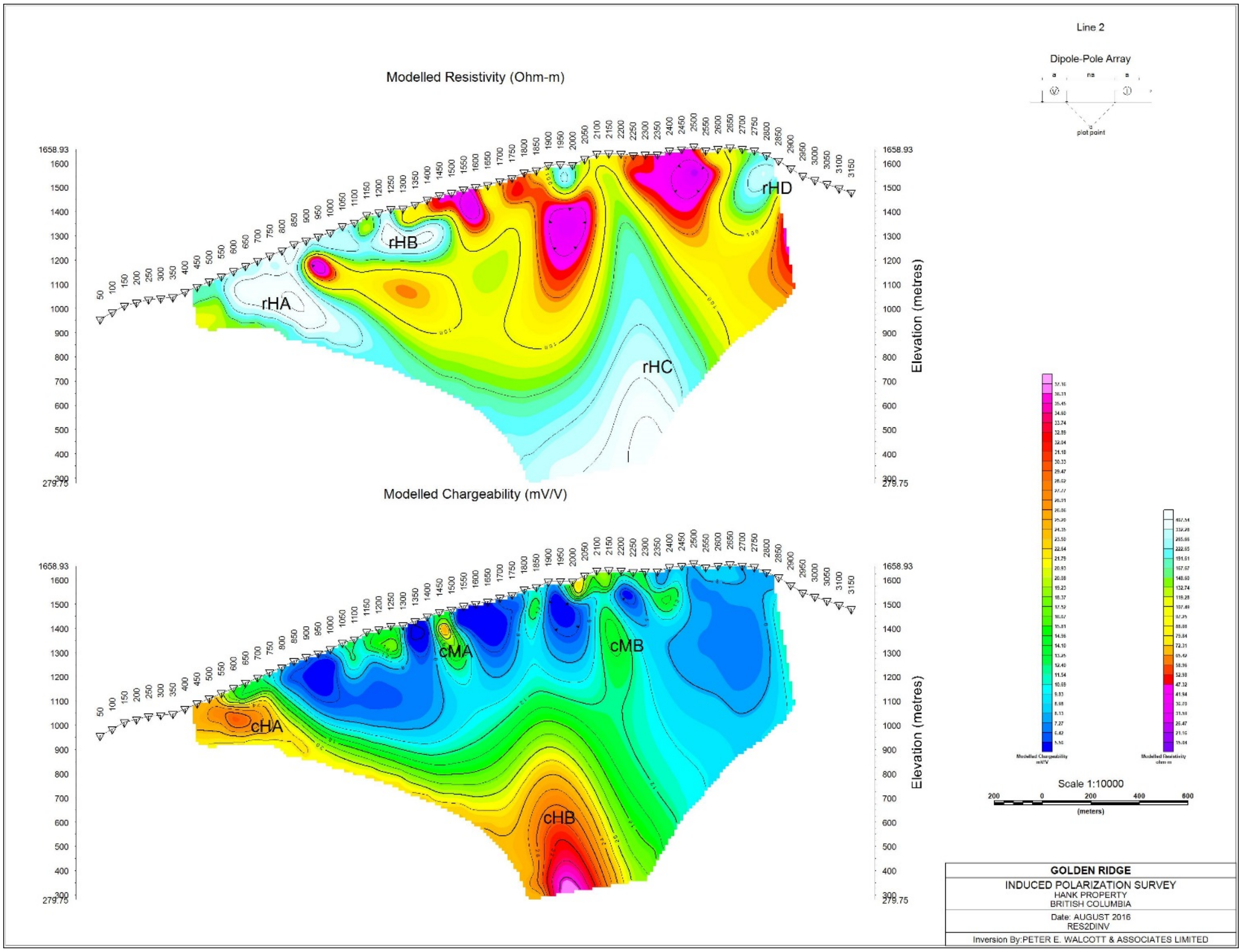



**Figure 10.10 – 2D Inverted Section Line 2**

*Anomaly rHC is a centered at 2200E on Line 2N. This near vertical zone of elevated resistivity is associated with a weak chargeability feature (cMB). The anomaly is flanked on both sides by zones of increased conductivity.*

*Anomaly cMB also appears to increase intensity on Line 1 to the south west, however with no discernable resistivity feature matching its geometry. This is potentially indicative of elevated (py-ser-cb) alteration flanking the side of the feeder zone.*

*Anomaly rHC may fit with the conceptual idea of a steep feeder vent, and is of significant interest.*

*Anomaly cHB is a deep-seated chargeability anomaly readily seen on all four of the survey lines. Given its depth and the lack of deeper separation data the author is suspect that it may be an artifact of the inversion process. Further comments on this target will be reserved until a detailed review of the data is completed with all historic drilling.*

*Anomaly rHD, is a zone of elevated resistivity on the grid eastern ends of the survey lines. No chargeability is associated with this feature however an elevated magnetic response is observed within the airborne mag. This feature is likely of little interest.*

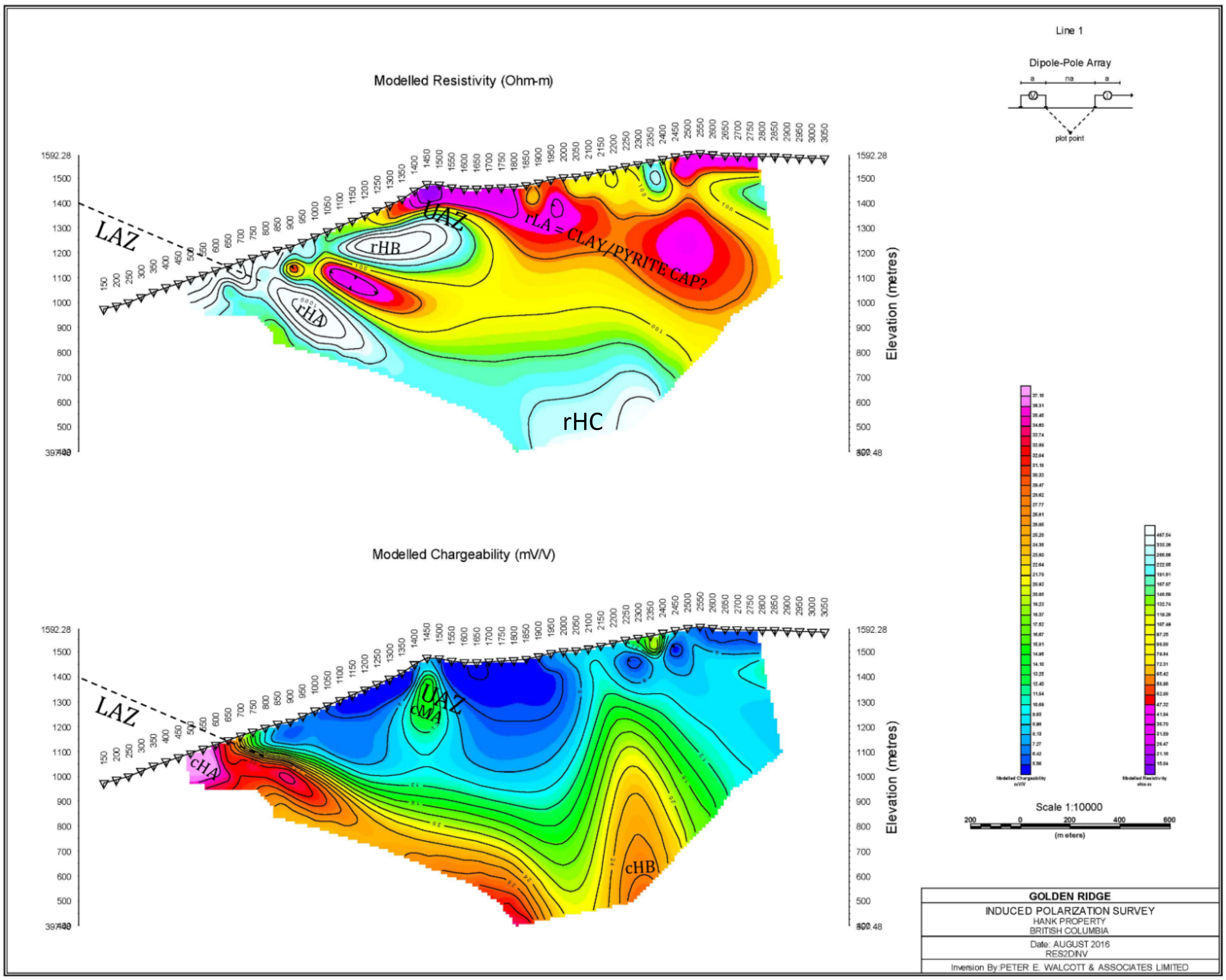



**Figure 10.11 – 2D Inverted Section Line 1**

# 11. CONCLUSIONS & RECOMMENDATIONS

The Hank Property is host to excellent historic drill intersections and a small non-43-101 compliant gold resource. No significant exploration has taken place on the Property since 1993. Historic drilling by Lac Minerals Ltd. and Homestake Canada Inc. encountered both high-grade gold in quartz-calcite-sulphide veins (e.g. 9.14 m grading 13.4 g/t Au and 132.3 g/t Ag in DDH 88-4 in the LAZ and 30.48 m grading 3.74 g/t Au in DDH 85-45 in the 200 pit area) as well as broad zones of lower grade mineralization within the host volcanic rocks (e.g. 120 m grading 390 ppb Au in DDH 87-8 in the Flats zone). Considering the >4.5 km length Au-in-soil anomaly and coincident epithermal-style alteration, there is good potential for delineation of additional mineralization along strike and size expansion of the historic resource. The conceptual target of a bonanza-grade feeder system below Felsite Hill adds the potential to increase the grade of the historic resource as well.

The limited rock sampling around the 200 and 440 pits carried out this year confirmed the presence of high grade Au-Ag veins (e.g. sample A2018540: 25.8 g/t Au, 4790 g/t Ag, and A2012623: 5.9 g/t Au, 1220 g/t Ag, and A2012621: 66.9 g/t Au, 42.3 g/t Ag). The high-grade samples are accompanied by significant base metal grades. For example, incorporating Ag and base metal credits to sample A2018540 gives a Au-equivalent grade of 99.8 g/t (using current spot prices of: $1163 Au, 17.11 Ag, $2.59 Cu, $1.06 Pb and $1.25 Zn).

A single day traverse 1.5 km along strike to the north, down Creek 11, revealed the presence of low grade Au mineralization in weakly propylitic altered rock below a very intensely clay-pyrite altered zone, which is mapped as part of the UAZ. The clay-pyrite zone itself was barren, with 3 samples across it returning no significant gold values. This is consistent with the model developed for the Property, with Au mineralization occurring below a barren clay cap.

The soil geochemical survey revealed several areas anomalous for Au. In the northeast of the Property, a 1 km by approximately 250m wide zone of anomalous Au-in-soil up to 826 ppb follows the upper parts of Creek 14 in a northerly direction. It is unclear at this time what is causing the anomaly and follow-up field investigation is warranted.

Two soil lines crossing Felsite Hill and the Silicified zone returned anomalous values ranging from 100-403 ppb Au, which increased downslope to 1275 ppb Au below the 200/440 pits in the UAZ. The presence of a gold-in-soil anomaly on top of Felsite Hill is encouraging and supports the theory of a potential feeder vent below.

Northwest of Hank Creek, a grid of soil samples delineated a strong NNE-trending Cu-Au-Ag-As anomaly approximately 1 km in strike length. A lens-shaped Cu-in-soil anomaly up to 4780 ppm (0.48%), termed the “Copper Zone”, is surrounded by a broader zone of anomalous Au up to 470 ppb, Ag up to 8.23 ppm, and As to 750 ppm. The overall geochemical signature is suggestive of an alkalic porphyry system and it may be related to a nearby belt of alkalic porphyry’s within the Ball Creek drainage system. A circular magnetic high from the 2014 aeromagnetic survey is coincident with the high copper values and may represent magnetite alteration or a magnetite-rich alkaline intrusion. The magnetic high appears to occur along a single flight line and is poorly defined at the current 200m flight line spacing. Tightly spaced (50m) ground magnetic surveying is recommended over the Copper Zone to better define any lithological contacts or zones of magnetite alteration or destruction. Geological mapping and prospecting is also recommended to better understand the geology, alteration and mineralization of the zone.

The IP survey conducted by Peter E. Walcott & Associates Ltd. identified several targets associated with known mineralization, along with a deeper feature of interest located proximal to that of the conceptual bonanza-style target location – Anomaly rHC/cMB.

It is the author of this reports’ opinion that the Lower Alteration Zone (LAZ) appears most prospective from a geophysical perspective. All four section lines show a moderately dipping resistivity high/chargeability high, which is coincident with mineralized drill intercepts and the known dip of the mineralized panel and may be representative of silica alteration with disseminated sulphides. Despite locally high grades and impressive drill intersections, Lac Minerals interpreted the LAZ to lack continuity, however IP section line 1 (Figure 10.11) disagrees with this interpretation and shows good continuity of the LAZ anomaly feature. A careful review of cross sections should be done to confirm Lac’s assertion of poor continuity, and to determine if additional drilling is warranted within the LAZ. A detailed 3D compilation of all available information should be undertaken including attempts to locate assay/geological information from the 1985 drilling campaign.

Mineralized drill intercepts within the UAZ appear to be situated on the flanks of resistivity anomalies rHB and rLA and associated with a small pod of moderate chargeability (cMA). Overlying the gold intercepts is a shallow dipping body of low resistivity (rLA) associated with Felsite Hill which is interpreted to represent a conductive clay-pyrite cap overlying a dipping panel of UAZ mineralization.

The best target on the Property remains the conceptual intersection of the dipping UAZ mineralized panel with a potential high-grade feeder vent below Felsite Hill. The inferred feeder vent daylights as a breccia pipe on Felsite Hill and is associated with 100-400 ppb Au-in-soil. Rock samples collected from Felsite Hill are low-grade, but anomalous, which is consistent with it representing a barren clay (acid-sulphate) cap as illustrated in figure 11.1 below. Anomaly rHC, a vertical pipe-like resistivity-high feature, may represent a zone of silica alteration with associated high-grade gold-silver mineralization, represented as the “Bonanza target” in figure 11.1 below.

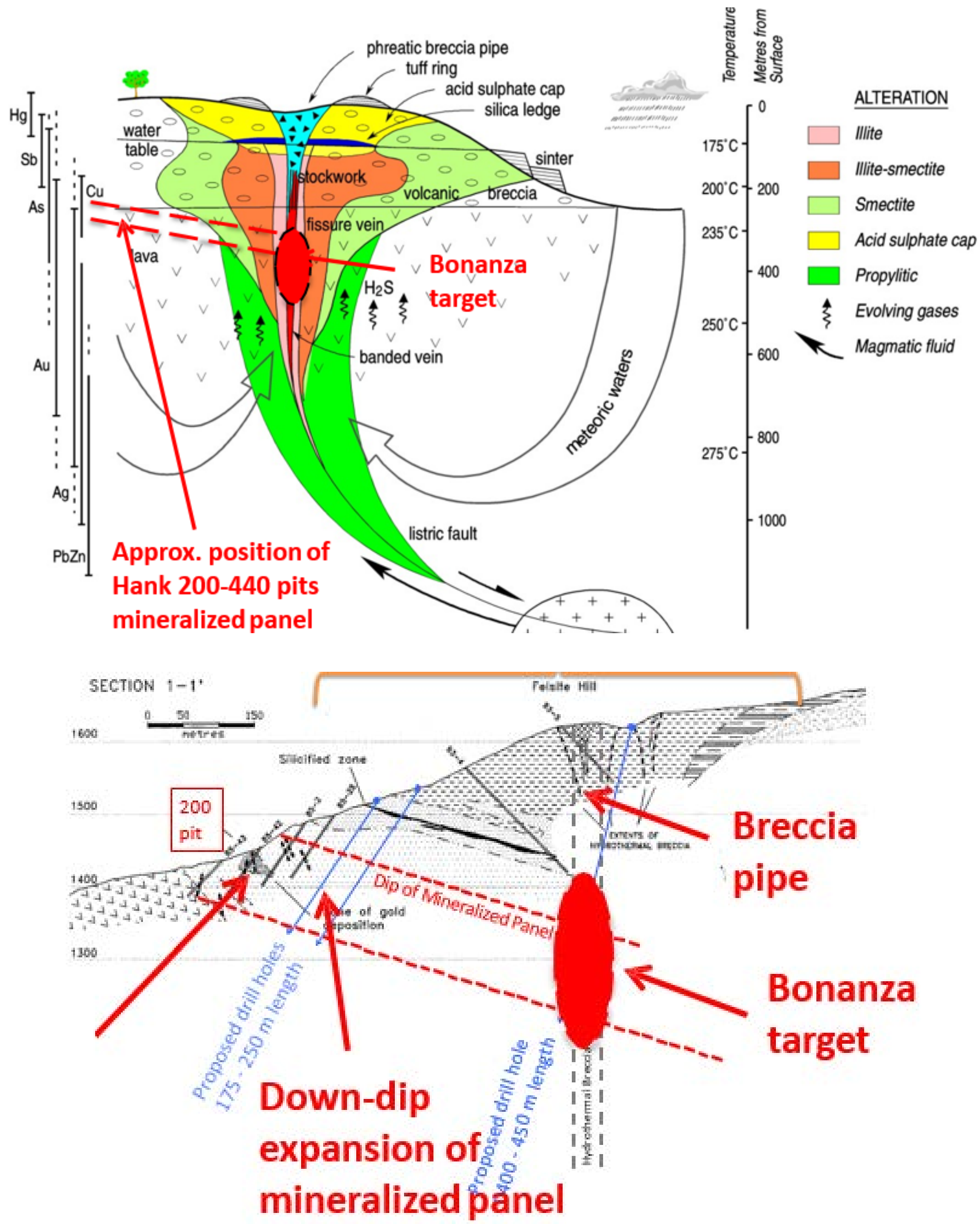



**Figure 11.1 – Cross-sections of epithermal alteration model and Hank conceptual target**

The 4 IP lines completed in 2016 did not cover several important zones including: Bald Bluff and the associated silicified zone, as well as a heavily mineralized section of the LAZ which saw a lot of historic drilling. It is therefore recommended to complete 3 more IP lines to the southwest of the 2016 lines as well as 1 additional line to the northwest at the same line and dipole spacing to cover these important zones.

A $1,700,000 program is proposed for the next phase of work, consisting of geological mapping, ground magnetic and IP surveying, and diamond drilling. Approximately $75,000 should be designated for geological mapping, rock sampling and ground magnetic surveying of the Copper Zone. $150,000 should be budgeted for completing the 4 additional IP survey lines to extend the 2016 survey. Once the additional IP survey lines have been completed and all historic data digitized and imported to 3D software, 3600 meters of diamond drilling is proposed for the UAZ and LAZ at an estimated all-in cost of approximately $1,475,000.

At least 4 deep (~500m), angled (-60$^{o}$) drillholes are proposed to test the downdip extension of the UAZ and its intersection with the inferred vertical feeder pipe (4 holes, ~2000m). The 4 holes should be collared downslope of Felsite Hill and drilled towards the southeast on 100m centers to intercept the inferred vertical feeder structure at an angle. If results from these first four holes are encouraging, additional step-out or infill holes can be planned on the fly. Otherwise, the remaining 1600m should be designated for testing the down-dip extension and continuity of the LAZ. Prior to planning the precise drillhole locations, it is strongly recommended to first compile, digitize and import all of the existing historic drill data into 3D geological software in order to better refine the planned hole locations.

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# 13. STATEMENT OF QUALIFICATIONS

I, Chris Paul of the City of Burnaby, Province of British Columbia, Canada, do hereby certify as follows:

1. I graduated with a Bachelor of Science degree in Geology from Simon Fraser University in February 2015.

2. I graduated honours with distinction in Mining & Mineral Exploration Technology from the British Columbia Institute of Technology in June 2011.

3. I am a GIT member in good standing with the Association of Professional Engineers and Geoscientist of British Columbia (APEGBC).

4. I have worked in mineral exploration since 2008, in the Philippines, Yukon Territory, and British Columbia.

5. I am the author and am responsible for the preparation of the report titled “2016 Geological and Geophysical Report on the Hank Property” dated January 4, 2017.

6. I hold no interest, directly or indirectly in the Hank property or any surrounding properties.

7. To the best of my knowledge, information and belief, this report contains all the scientific and technical information that is required to be disclosed to make this report not misleading.

Dated this 4th day of January, 2017

Chris Paul

# 14. STATEMENT OF COSTS

## HANK PROPERTY - Statement of Costs (August 26 - September 4, 2016)

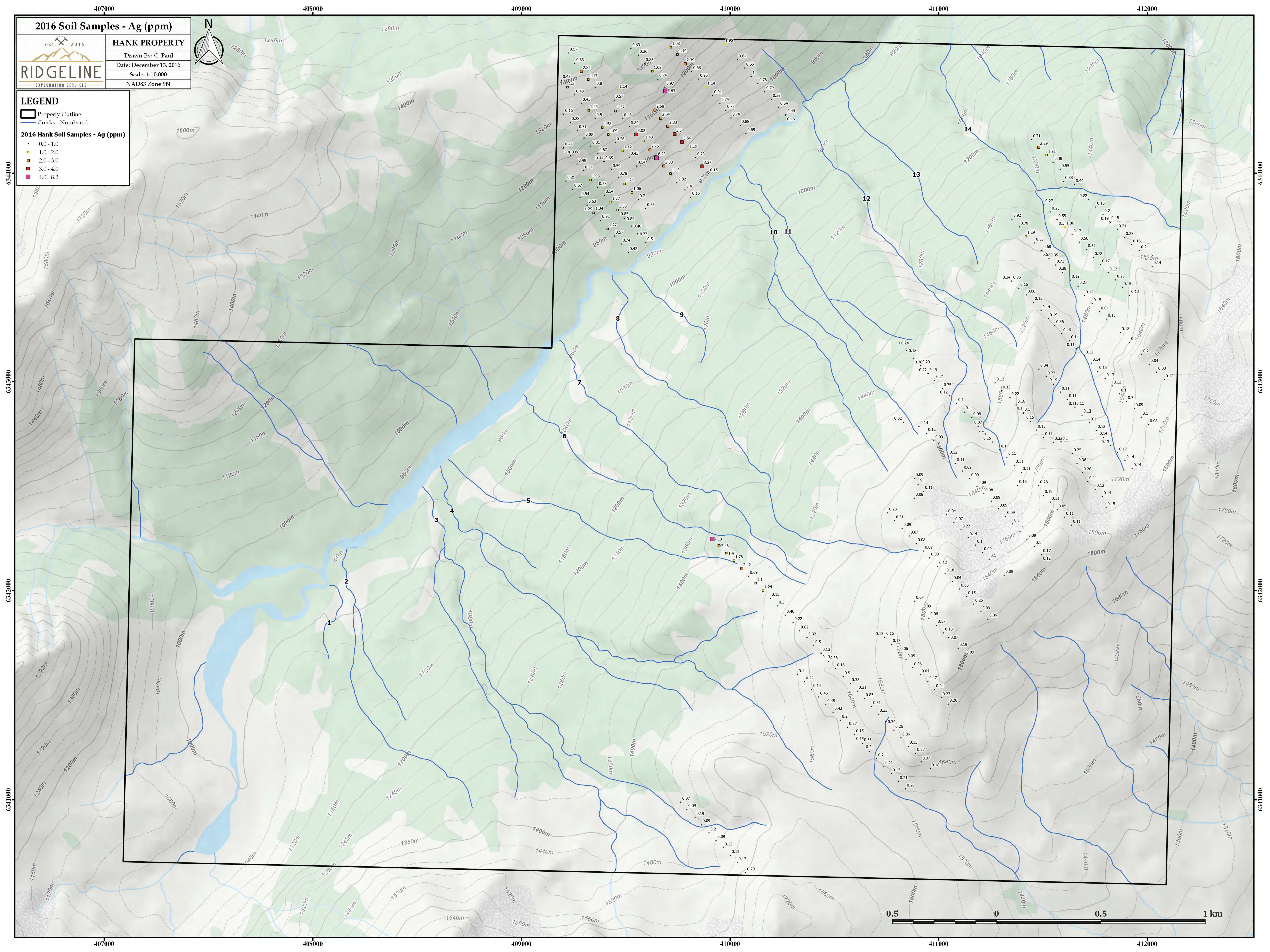
| FIELD WORK | | | | |
|---|---|---|---|---|
| **Personnel (Title)** | **Field Days** | **Days** | **Rate** | **Subtotal** |
| Chris Paul, Geologist - project manager | August 26 - August 31, 2016 | 6 | $750 | $4,500.00 |
| Mike Blady, Geologist | August 26 - August 31, 2016 | 6 | $600 | $3,600.00 |
| Rita Dubman, Field Technician/Geologist | August 26 - August 31, 2016 | 6 | $450 | $2,700.00 |
| Cody Gustafsson, Field Technician | August 26 - August 31, 2016 | 6 | $450 | $2,700.00 |
| Jordan Luck, Prospector | August 26 - September 4, 2016 | 10 | $250 | $2,500.00 |
| Cameron Spence | August 26 - September 4, 2016 | 8 | $249 | $1,993.89 |
| Dylan Hunko | September 3, 2016 | 1 | $312 | $311.55 |
| Kyle Quock | August 26 - September 4, 2016 | 10 | $351 | $3,510.00 |
| Bogart Cross (Logistics Manager, fuel delivery & pick-up) | August 26 - September 4, 2016 | 2 | $397 | $793.02 |
| | **SUBTOTAL:** | **55** | **$3,808** | **$22,608.46** |
| **OFFICE STUDIES** | | | | |
| | | **Days** | **Rate** | **Subtotal** |
| Pre-field: Historical data review, GIS Compilation, field program planning, equipment preparation/packing | | 5 | $500 | $2,500.00 |
| Post-field: Data Download, Processing, QA/QC, Map Drafting | | 1 | $500 | $500.00 |
| Report Writing and Preparation | | 5 | $500 | $2,500.00 |
| Geophysics Interpretation and compilation report (Walcott) | | 5 | $500 | $2,500.00 |
| 3D modeling of historic drilling | | 20 | $400 | $10,000.00 |
| | **SUBTOTAL:** | **36** | | **$18,000.00** |
| **ANALYTICAL** | | | | |
| | **Lab** | **No.** | **Rate** | **Subtotal** |
| Rock prep: Dry, crush to 2mm, split 250g, pulverize to 85% passing 75 µm | ALS (Terrace) | 53 | $3.48 | $184.44 |
| Soil prep: Dry, Screen to 80 mesh, save plus fraction | ALS (Terrace) | 368 | $1.58 | $581.44 |
| ME-ICP41 | ALS (Terrace) | 53 | $11.15 | $590.95 |
| Au-AA25 | ALS (Terrace) | 53 | $16.70 | $885.10 |
| Analysis: Au, Fire Assay, 30g fusion, AAS, Trace level | ALS (Terrace) | 368 | $6.68 | $2,458.24 |
| Analysis: Multi-Element, Aqua Regia, ICP-AES/MS, Trace Level - 0.5 gram aliquot | ALS (Terrace) | 368 | $9.28 | $3,415.04 |
| | **SUBTOTAL:** | | | **$8,115.21** |
| **GEOPHYSICS** | | | | |
| | | **No.** | **Rate** | **Subtotal** |
| Peter E. Walcot (12 line Kilometer IP survey - 4 man crew, IP equipment, GPS, altimiters & 4x4; August 26 - September 4, 2016) | | 1 | | $32,900.00 |
| Mob / Demob for IP gear and crew | | 2 | 4,000 | $8,000.00 |
| | **SUBTOTAL:** | | | **$40,900.00** |

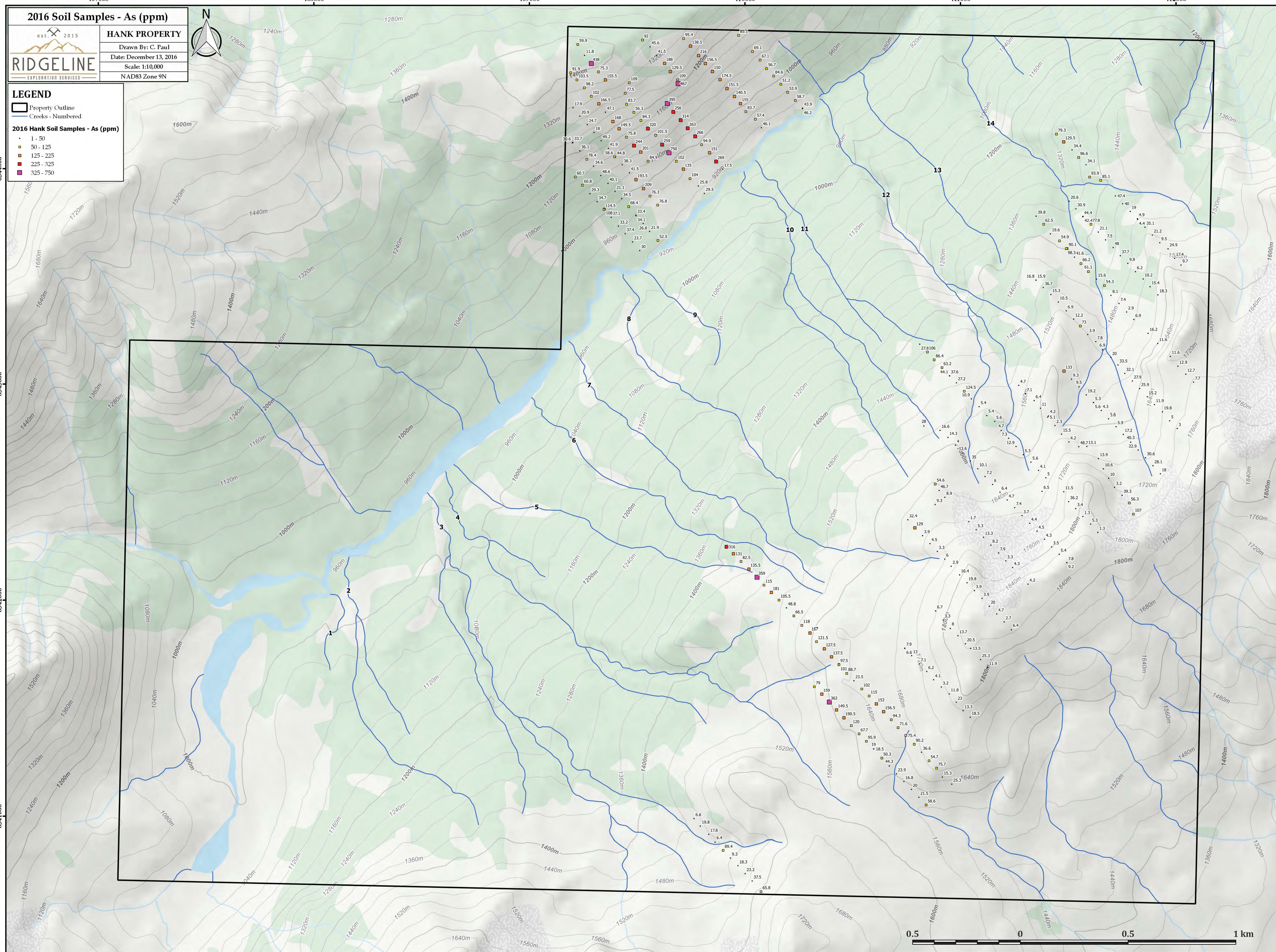
| **TRAVEL** | | | | |
|---|---|---|---|---|
| | **Quantity** | **Km's** | **Rate** | **Subtotal** |
| Return Flights - Vancouver - Terrace | 4 | | $850.00 | **$3,400.00** |
| Mobilization & Travel Day Wages | 2 | | 1/2 | **$2,250.00** |
| Vehicle Rental | 8 | | $125.00 | **$1,000.00** |
| Vehicle Fuel | | 1150 | $0.65 | **$812.50** |
| | **SUBTOTAL:** | | | **$7,462.50** |
| **Helicopter Rental** | | | | |
| | **Quantity** | **Hr's** | **Rate** | **Subtotal** |
| **Fireweed Helicopters (August 25 - September 4)** | 1 | 40 | $1,166.25 | **$46,650.00** |
| **Jet Fuel (Billed through CXO)** | 1 | | $9,761.00 | **$9,761.00** |
| | **SUBTOTAL:** | | | **$56,411.00** |
| **MEALS & ACCOMMODATION** | | | | |
| | **Mandays** | **Rooms** | **Rate** | **Subtotal** |
| Meals (during mob/demob and travel days) | 8 | | $40.00 | **$320.00** |
| Accommodation | 104 | 1 | $250.00 | **$26,000.00** |
| | **SUBTOTAL:** | | | **$26,320.00** |
| **MISCELLANEOUS** | | | | |
| | | **Mandays** | **Rate** | **Subtotal** |
| Field Equipment Rental + Consumables | | 42 | $100.00 | **$2,400.00** |
| Camp Rental | | 0 | $65.00 | **$0.00** |
| | **SUBTOTAL:** | | | **$2,400.00** |
| **PROJECT MANAGEMENT** | | | | |
| Project management fee @ 2.5% (includes insurance, liability, Worksafe, etc.) | **SUBTOTAL:** | | 2.5% | **$4,729.77** |

**PROGRAM TOTAL: $186,946.94**

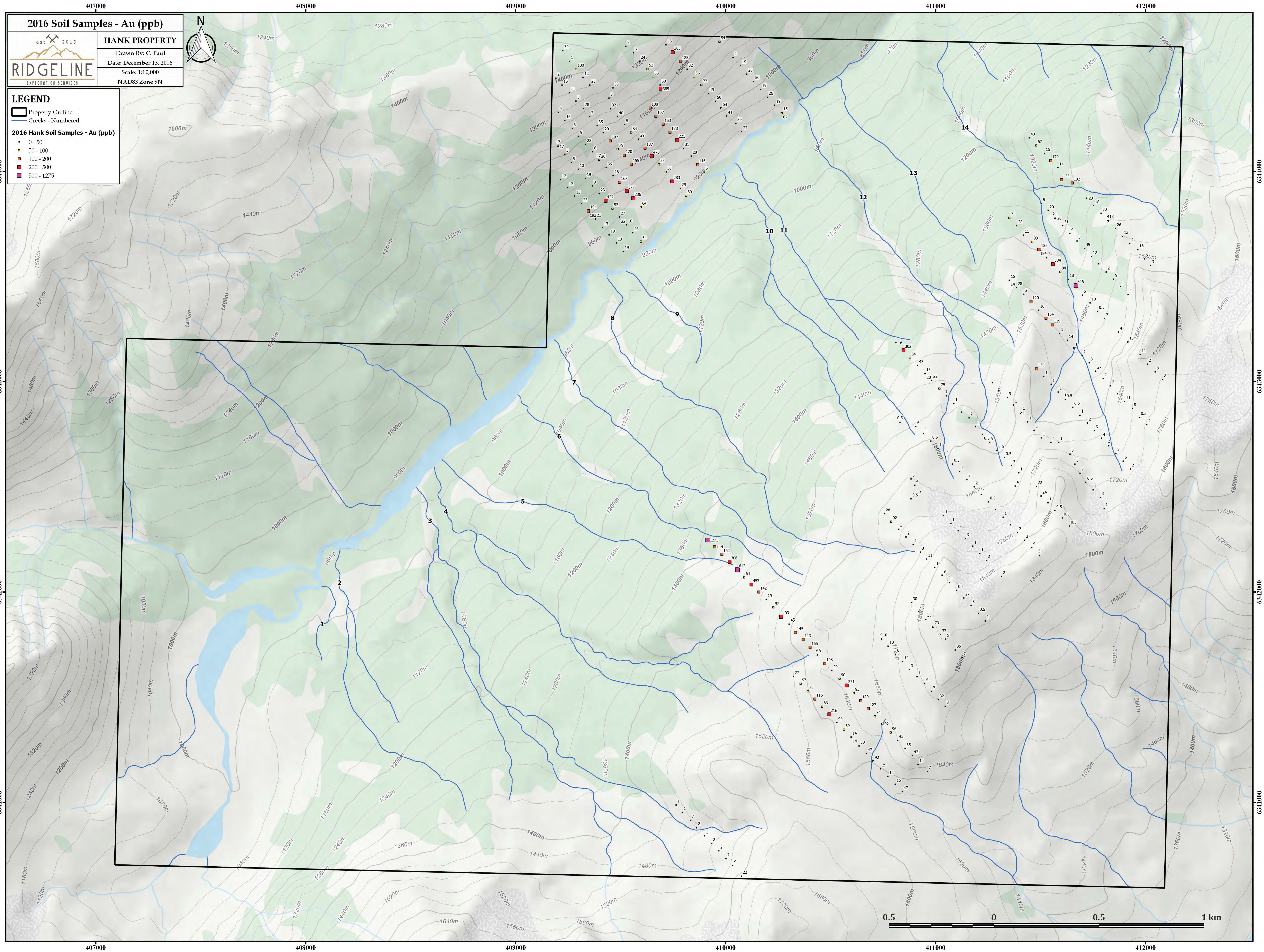
# APPENDIX A

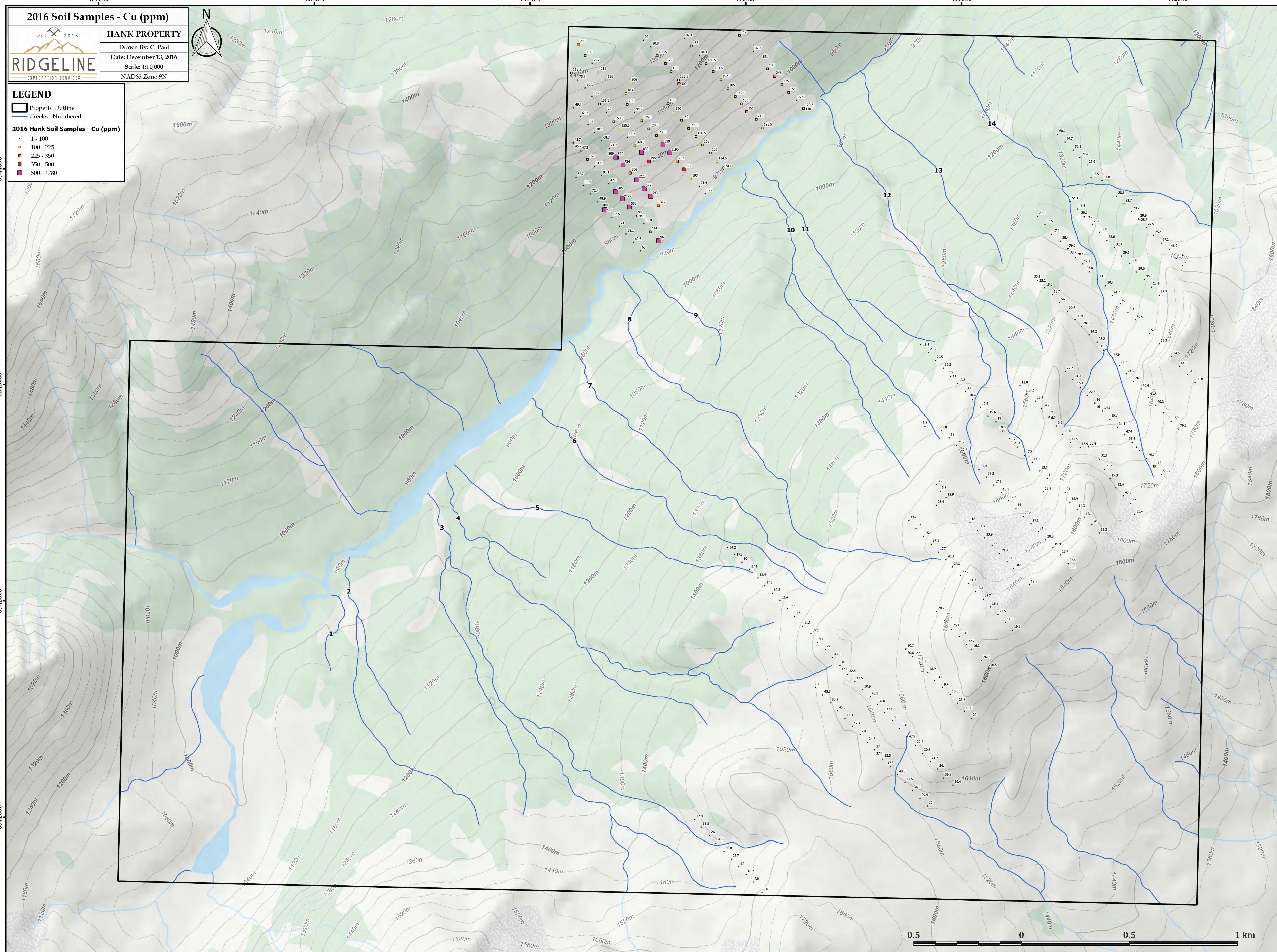
## SOIL AND ROCK SAMPLING MAPS

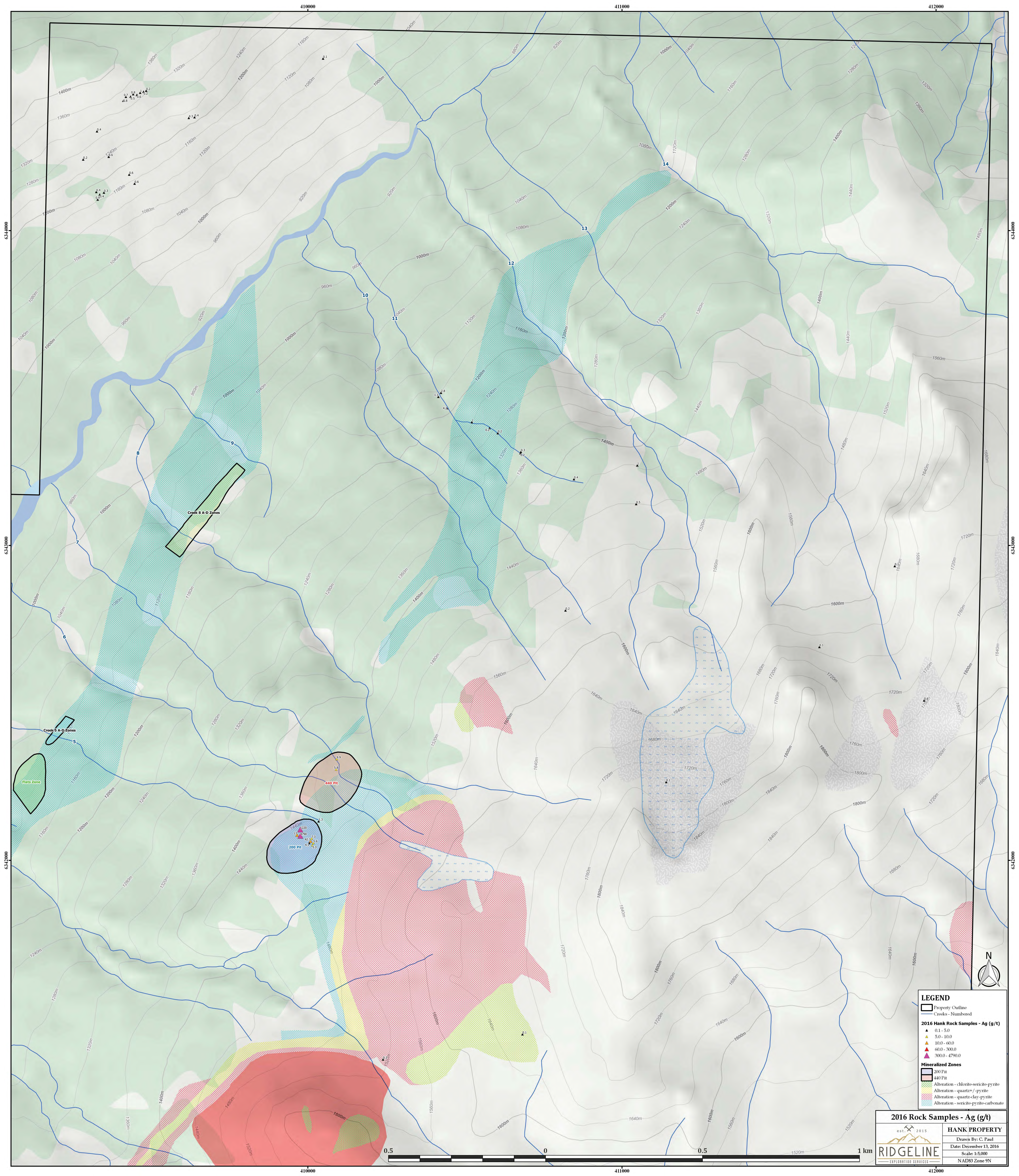

2016 Soil Samples - Ag (ppm)
RIDGELINE
est. 2015
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:10,000
NAD83 Zone 9N
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Soil Samples - Ag (ppm)
0.0 - 1.0
1.0 - 2.0
2.0 - 3.0
3.0 - 4.0
4.0 - 8.2
0.5
0
0.5
1 km
407000
408000
409000
410000
411000
412000
6344000
6343000
6342000
6341000

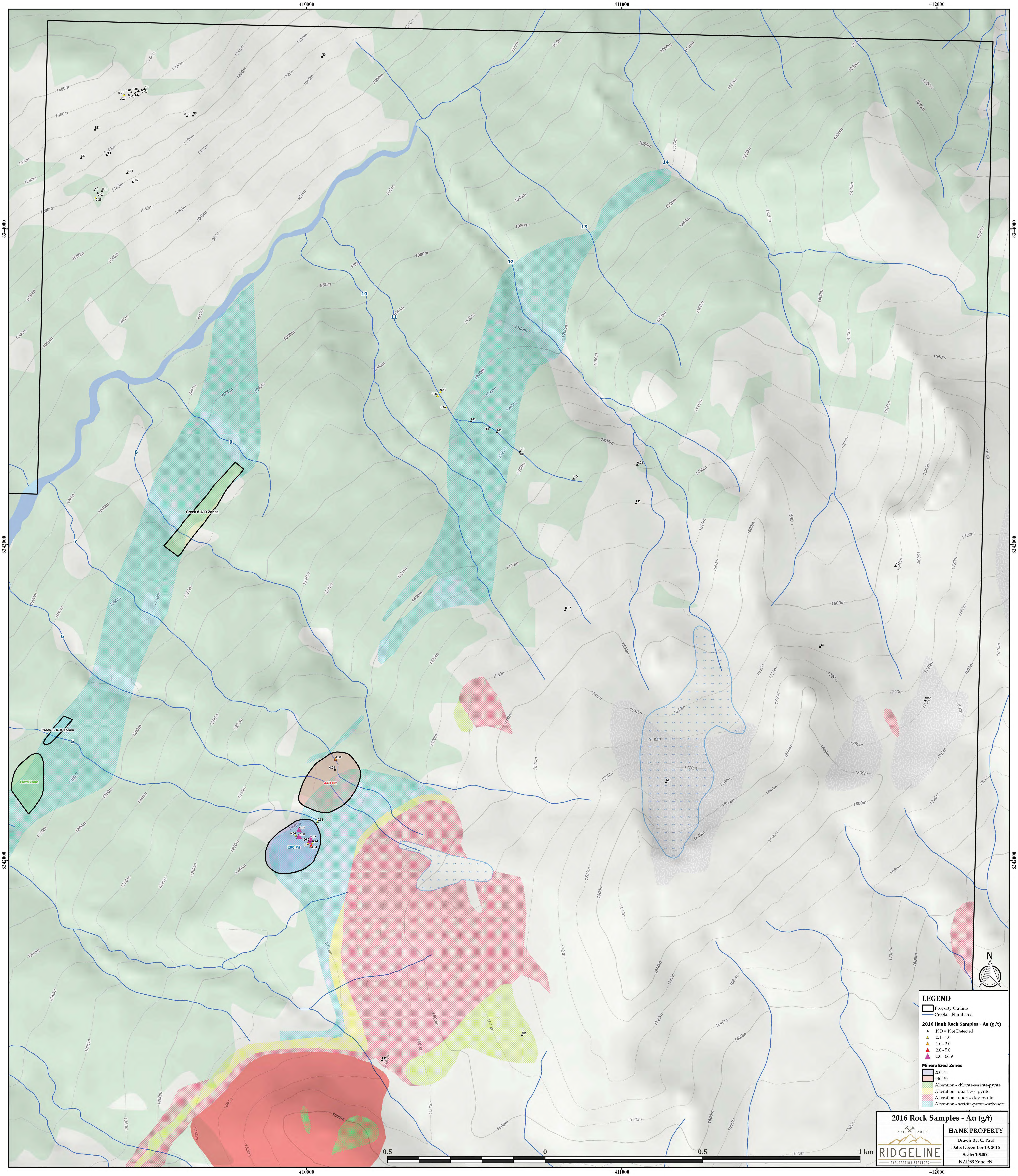


2016 Soil Samples - As (ppm)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:10,000
NAD83 Zone 9N
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Soil Samples - As (ppm)
1 - 50
50 - 125
125 - 225
225 - 325
325 - 750
407000
408000
409000
410000
411000
412000
6344000
6343000
6342000
6341000
0.5
0
0.5
1 km

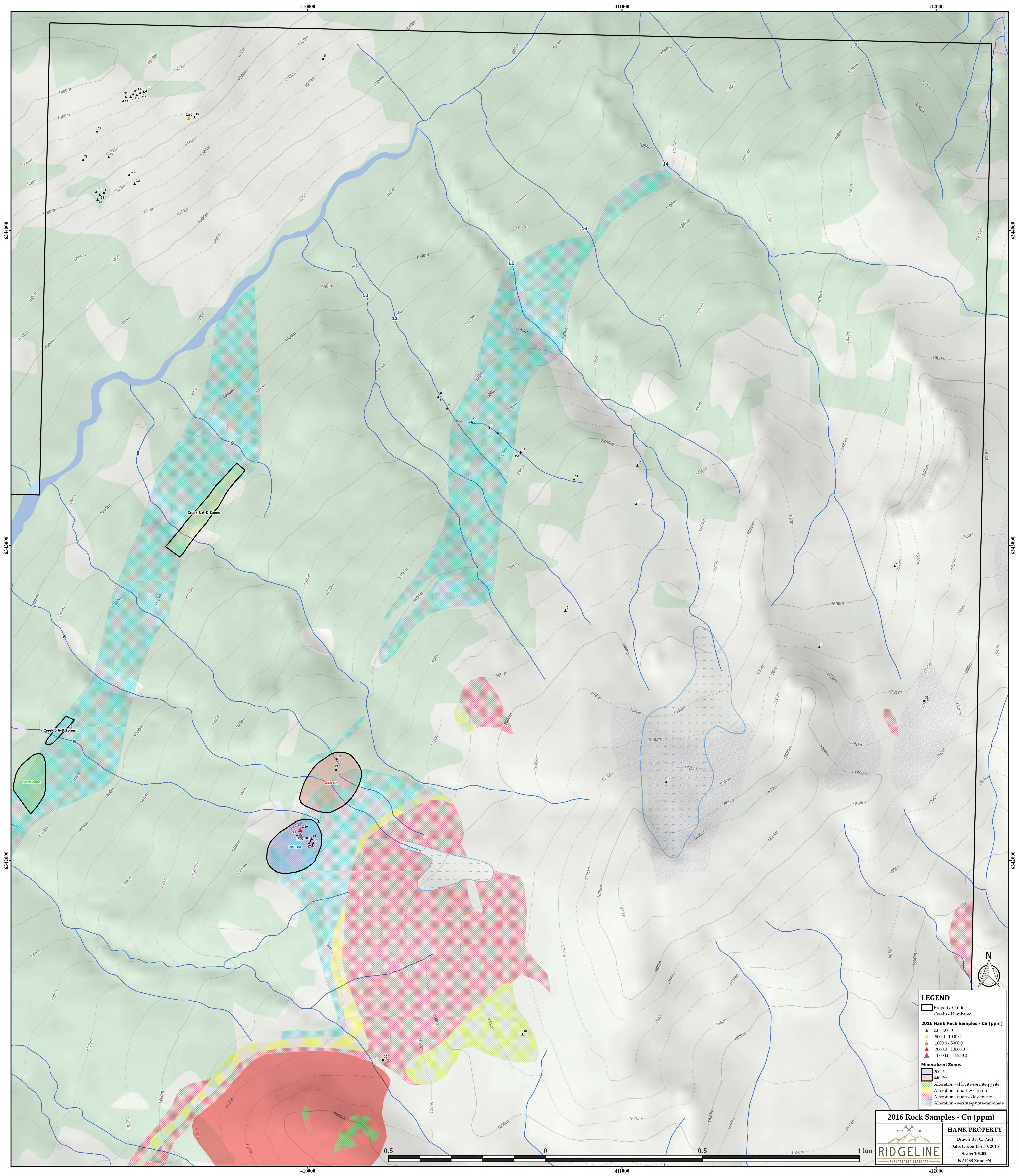

2016 Soil Samples - Au (ppb)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:10,000
NAD83 Zone 9N
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Soil Samples - Au (ppb)
0 - 50
50 - 100
100 - 200
200 - 500
500 - 1275
407000
408000
409000
410000
411000
412000
6344000
6343000
6342000
6341000
0.5
0
0.5
1 km


2016 Soil Samples - Cu (ppm)
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:10,000
NAD83 Zone 9N
est. 2015
RIDGELINE
EXPLORATION SERVICES
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Soil Samples - Cu (ppm)
1 - 100
100 - 225
225 - 350
350 - 500
500 - 4780
N
0.5
0
0.5
1 km

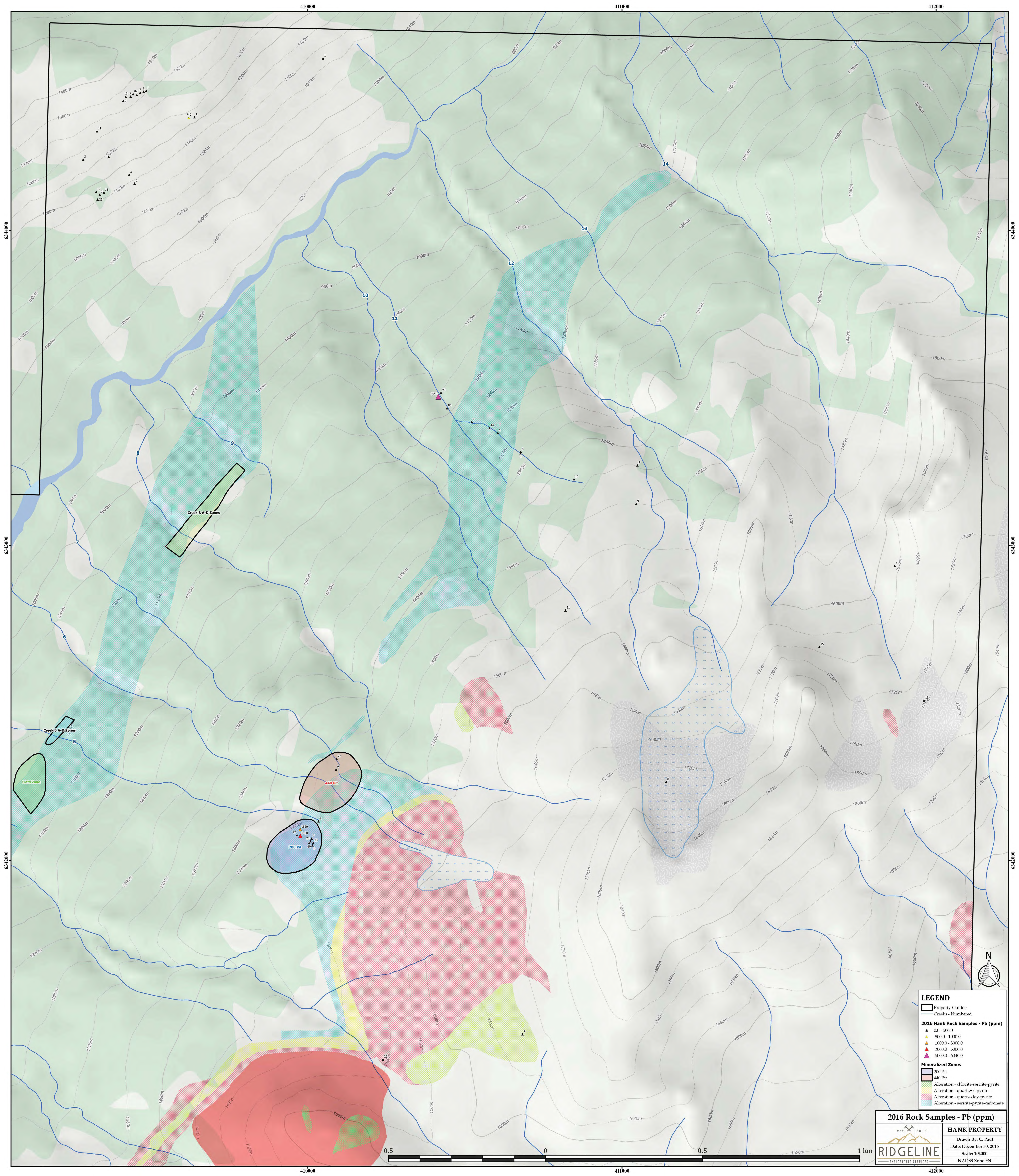

410000
411000
412000
6344000
6343000
6342000
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit
0.5
0
0.5
1 km
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Rock Samples - Ag (g/t)
0.1 - 5.0
5.0 - 10.0
10.0 - 60.0
60.0 - 300.0
300.0 - 4790.0
Mineralized Zones
200 Pit
440 Pit
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
2016 Rock Samples - Ag (g/t)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:5,000
NAD83 Zone 9N



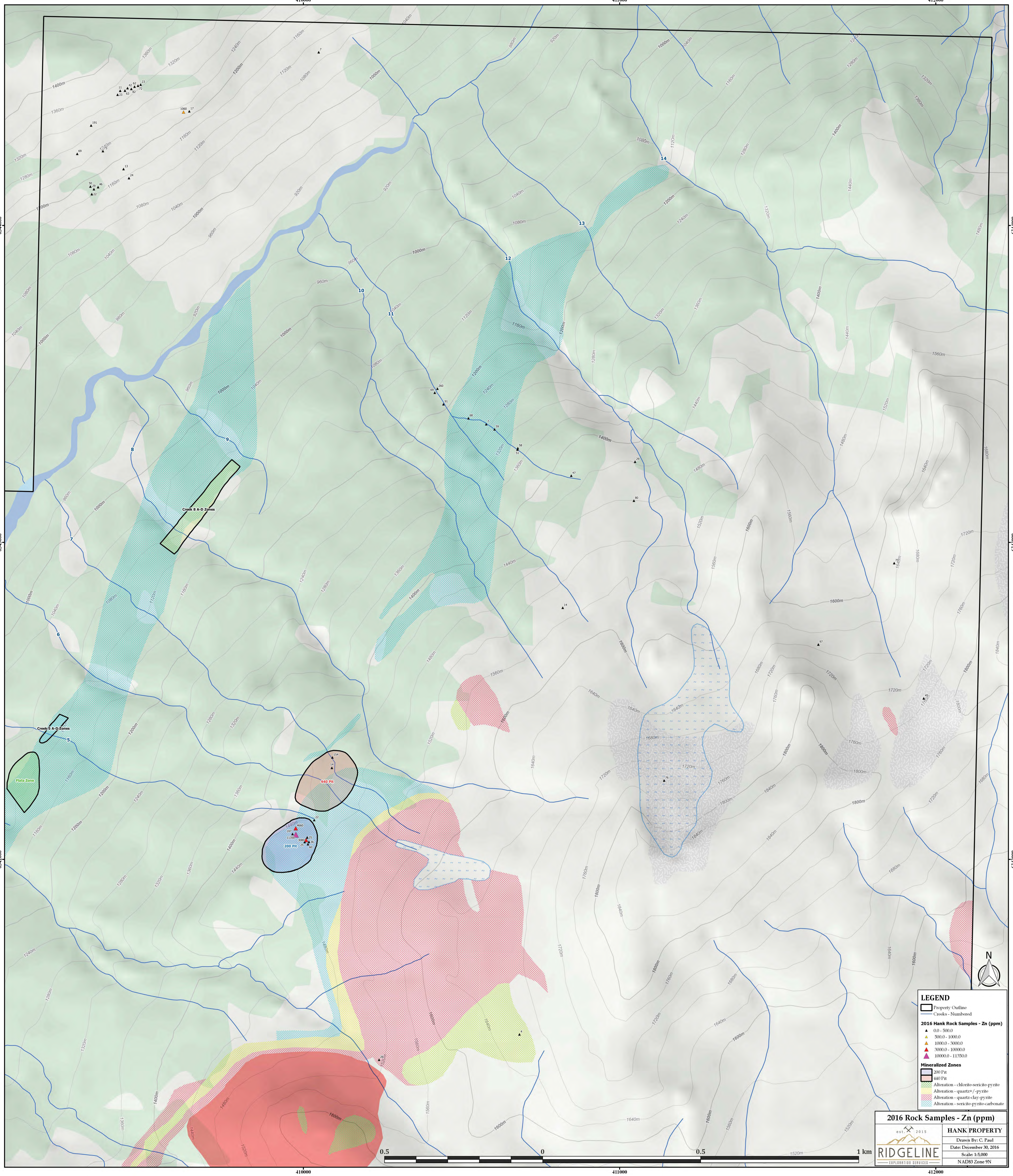
410000
411000
412000
6344000
6343000
6342000
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Rock Samples - Au (g/t)
ND = Not Detected
0.1 - 1.0
1.0 - 2.0
2.0 - 5.0
5.0 - 66.9
Mineralized Zones
200 Pit
440 Pit
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
0.5
0
0.5
1 km
2016 Rock Samples - Au (g/t)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 13, 2016
Scale: 1:5,000
NAD83 Zone 9N



410000
411000
412000
6344000
6343000
6342000
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit
0.5
0
0.5
1 km
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Rock Samples - Cu (ppm)
0.0 - 500.0
500.0 - 1000.0
1000.0 - 3000.0
3000.0 - 10000.0
10000.0 - 15950.0
Mineralized Zones
200 Pit
440 Pit
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
2016 Rock Samples - Cu (ppm)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:5,000
NAD83 Zone 9N



410000
411000
412000
6344000
6343000
6342000
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit
N
LEGEND
Property Outline
Creeks - Numbered
2016 Hank Rock Samples - Pb (ppm)
0.0 - 500.0
500.0 - 1000.0
1000.0 - 3000.0
3000.0 - 5000.0
5000.0 - 6040.0
Mineralized Zones
200 Pit
440 Pit
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
0.5
0
0.5
1 km
2016 Rock Samples - Pb (ppm)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:5,000
NAD83 Zone 9N


LEGEND
Property Outline
Creeks - Numbered
2016 Hank Rock Samples - Zn (ppm)
0.0 - 500.0
500.0 - 1000.0
1000.0 - 3000.0
3000.0 - 10000.0
10000.0 - 11350.0
Mineralized Zones
200 Pit
440 Pit
Alteration - chlorite-sericite-pyrite
Alteration - quartz+/-pyrite
Alteration - quartz-clay-pyrite
Alteration - sericite-pyrite-carbonate
2016 Rock Samples - Zn (ppm)
est. 2015
RIDGELINE
EXPLORATION SERVICES
HANK PROPERTY
Drawn By: C. Paul
Date: December 30, 2016
Scale: 1:5,000
NAD83 Zone 9N
N
0.5
0
0.5
1 km
410000
411000
412000
6344000
6343000
6342000
Creek 8 A-D Zones
Creek 5 A-D Zones
Flats Zone
440 Pit
200 Pit

# APPENDIX B

## 2016 SOIL SAMPLE COORDINATES AND DESCRIPTIONS
## COORDINATES IN UTM NAD83 ZONE 9N

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018153 | 410075 | 6340652 | Orange Red | Clay | 10 | Talus Chips | Good | 22 |
| A2018154 | 409897 | 6343998 | Orange Brown | Clay | 30 | B | Good | 6 |
| A2018155 | 409867 | 6344034 | Orange Brown | Silt | 30 | B | Good | 116 |
| A2018156 | 409836 | 6344074 | Brown | Silt | 20 | B | Poor | 28 |
| A2018157 | 409799 | 6344112 | Brown | Silt | 40 | B | Poor | 31 |
| A2018158 | 409769 | 6344150 | Brown | Silt | 55 | B | Good | 221 |
| A2018159 | 409735 | 6344188 | Brown | Silt-Sand | 60 | B | Average | 178 |
| A2018160 | 409702 | 6344226 | Brown | Silt-Sand | 30 | Talus Chips | Average | 153 |
| A2018161 | 409668 | 6344264 | Yellowish Brown | Silt-Sand | 20 | Talus Chips | Good | 107 |
| A2018162 | 409764 | 6340988 | Brown | Silt-Sand | 25 | B | Poor | 1 |
| A2018163 | 409640 | 6344303 | Brown | Silt-Sand | 10 | Talus Chips | Good | 188 |
| A2018164 | 409690 | 6344395 | Orange Brown | Silt-Sand | 20 | B | Poor | 385 |
| A2018165 | 409688 | 6344413 | Orange Brown | Silt-Sand | 15 | B | Poor | 50 |
| A2018166 | 409654 | 6344451 | Orange Brown | Silt-Sand | 30 | B | Good | 53 |
| A2018167 | 409627 | 6344489 | Orange Brown | Silt-Sand | 30 | B | Good | 52 |
| A2018168 | 409589 | 6344526 | Brown | Silt-Sand | 45 | B | Good | 24 |
| A2018169 | 409560 | 6344566 | Brown | Silt-Sand | 25 | B | Good | 6 |
| A2018170 | 409525 | 6344597 | Brown | Silt-Sand | 30 | B | Good | 8 |
| A2018205 | 409266 | 6344044 | Brown | Silt-Sand | 50 | B | Average | 9 |
| A2018206 | 409298 | 6344012 | Orange Brown | Silt | 20 | B | Good | 10 |
| A2018207 | 409331 | 6343968 | Orange Brown | Silt | 30 | B | Good | 19 |
| A2018208 | 409365 | 6343932 | Orange Brown | Silt | 30 | B | Good | 9 |
| A2018209 | 409397 | 6343894 | Orange Brown | Silt | 70 | B | Good | 23 |
| A2018210 | 409428 | 6343861 | Brown | Clay | 60 | B | Good | 427 |
| A2018211 | 409461 | 6343823 | Brown | Clay | 90 | B | Poor | 52 |
| A2018212 | 409495 | 6343781 | Orange Brown | Silt | 50 | B | Good | 22 |
| A2018213 | 409494 | 6343784 | Orange Brown | Silt | 50 | B | Good | 27 |
| A2018214 | 409528 | 6343746 | Brown | Clay | 45 | B | Good | 10 |
| A2018215 | 409558 | 6343709 | Brown | Clay | 110 | B | Poor | 26 |
| A2018216 | 409596 | 6343667 | Brown | Clay | 80 | B | Poor | 54 |
| A2018253 | 411495 | 6343630 | Brown | Silt | 40 | B | Good | 125 |
| A2018254 | 411491 | 6343629 | Brown | Silt | 40 | B | Good | 184 |
| A2018255 | 411460 | 6343665 | Brown | Clay | 30 | B | Good | 93 |
| A2018256 | 411418 | 6343697 | Orange Brown | Silt | 40 | B | Excellent | 11 |
| A2018257 | 411386 | 6343742 | Orange Brown | Silt | 25 | B | Excellent | 28 |
| A2018258 | 411149 | 6342537 | Gray | Clay | 40 | B | Average | 2 |
| A2018259 | 411114 | 6342574 | Brown | Clay | 20 | B | Good | 1 |
| A2018260 | 411080 | 6342610 | Orange | Sand | 5 | B | Good | 0.5 |
| A2018261 | 411046 | 6342646 | Orange | Sand | 15 | B | Excellent | 1 |
| A2018262 | 411011 | 6342683 | Orange Brown | Clay | 40 | B | Good | 1 |
| A2018263 | 410977 | 6342719 | Brown | Silt | 10 | A | Poor | 0.5 |
| A2018264 | 410942 | 6342755 | Orange Brown | Silt-Sand | 25 | B | Good | 1 |
| A2018265 | 410906 | 6342788 | Orange | Sand | 25 | B | Excellent | 6 |
| A2018266 | 410830 | 6342808 | Orange | Silt | 0 | B | Good | 0.5 |
| A2018268 | 411351 | 6343780 | Brown | Silt | 30 | B | Good | 71 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018269 | 411637 | 6342314 | Gray | Silt | 30 | B | Good | 0.5 |
| A2018270 | 411604 | 6342352 | Orange Brown | Silt-Sand | 0 | B | Good | 0.5 |
| A2018271 | 411568 | 6342388 | Gray | Clay | 50 | B | Good | 0.5 |
| A2018272 | 411535 | 6342425 | Orange Brown | Silt-Sand | 40 | B | Excellent | 1 |
| A2018273 | 411502 | 6342457 | Brown | Silt-Sand | 70 | B | Average | 24 |
| A2018274 | 411479 | 6342503 | Brown | Silt-Sand | 10 | B | Good | 22 |
| A2018275 | 411379 | 6342505 | Brown | Silt-Sand | 20 | B | Average | 4 |
| A2018276 | 411396 | 6342568 | Brown | Clay | 35 | B | Good | 1 |
| A2018277 | 411362 | 6342602 | Gray | Clay | 15 | B | Average | 3 |
| A2018278 | 411327 | 6342640 | Brown | Clay | 30 | B | Average | 0.5 |
| A2018279 | 411292 | 6342675 | Brown | Sand | 15 | B | Average | 0.5 |
| A2018280 | 411258 | 6342713 | Brown | Clay | 30 | B | Good | 9 |
| A2018281 | 411224 | 6342751 | Brown | Clay | 45 | B | Good | 0.5 |
| A2018282 | 411189 | 6342787 | Brown | Clay | 50 | B | Good | 1 |
| A2018283 | 411159 | 6342829 | Brown | Clay | 40 | B | Good | 2 |
| A2018284 | 411122 | 6342856 | Brown | Silt-Sand | 30 | B | Average | 1 |
| A2018285 | 411087 | 6342895 | Brown | Silt | 20 | B | Good | 1 |
| A2018286 | 411051 | 6342931 | Brown | Clay | 35 | B | Good | 1 |
| A2018287 | 411018 | 6342966 | Orange Brown | Silt | 50 | B | Excellent | 75 |
| A2018288 | 410982 | 6343006 | Orange Brown | Silt-Sand | 40 | B | Excellent | 22 |
| A2018289 | 410950 | 6343038 | Reddish Brown | Silt-Sand | 100 | B | Excellent | 20 |
| A2018290 | 410949 | 6343038 | Reddish Brown | Silt-Sand | 100 | B | Excellent | 15 |
| A2018291 | 410915 | 6343076 | Orange Brown | Silt-Sand | 40 | B | Excellent | 43 |
| A2018292 | 410878 | 6343112 | Orange Brown | Silt-Sand | 40 | B | Good | 64 |
| A2018293 | 410847 | 6343148 | Orange Brown | Silt-Sand | 70 | B | Excellent | 302 |
| A2018294 | 410811 | 6343185 | Reddish Brown | Silt | 105 | B | Excellent | 16 |
| A2018295 | 411126 | 6341690 | Brown | Silt | 50 | B | Good | 7 |
| A2018296 | 411093 | 6341726 | Brown | Silt-Sand | 40 | B | Good | 35 |
| A2018297 | 411047 | 6341779 | Brown | Silt | 20 | B | Average | 5 |
| A2018298 | 411024 | 6341800 | Brown | Silt | 20 | B | Average | 37 |
| A2018299 | 410989 | 6341837 | Brown | Clay | 30 | B | Good | 73 |
| A2018300 | 410953 | 6341871 | Brown | Silt | 110 | B | Good | 38 |
| A2018320 | 412006 | 6342796 | Purplish Red | Silt-Sand | 40 | B | Poor | 2 |
| A2018321 | 411971 | 6342832 | Gray | Silt-Sand | 30 | B | Average | 0.5 |
| A2018322 | 411937 | 6342871 | Orange Brown | Clay | 45 | C | Good | 8 |
| A2018323 | 411900 | 6342904 | Brown | Silt-Sand | 10 | A | Poor | 11 |
| A2018324 | 411867 | 6342941 | Orange Brown | Silt-Sand | 30 | B | Poor | 2 |
| A2018325 | 411832 | 6342979 | Brown | Silt-Sand | 45 | C | Average | 7 |
| A2018326 | 411798 | 6343014 | Brown | Silt-Sand | 30 | B | Average | 2 |
| A2018327 | 411494 | 6342174 | Brown | Silt-Sand | 15 | Talus Chips | Average | 3 |
| A2018328 | 410883 | 6342539 | Orange Brown | Silt-Sand | 30 | B | Excellent | 5 |
| A2018329 | 410928 | 6342477 | Orange Brown | Silt-Sand | 31 | B | Excellent | 1 |
| A2018330 | 410882 | 6342444 | Orange Yellow | Silt-Sand | 30 | B | Good | 0.5 |
| A2018331 | 410890 | 6341223 | Brown | Clay | 25 | B | Good | 42 |
| A2018332 | 410916 | 6341181 | Brown | Silt | 5 | B | Poor | 14 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018333 | 410960 | 6341148 | Brown | Silt-Sand | 35 | C | Poor | 7 |
| A2018334 | 410854 | 6341257 | Orange Brown | Clay | 10 | B | Average | 35 |
| A2018335 | 410819 | 6341296 | Orange Brown | Silt | 15 | B | Average | 45 |
| A2018336 | 410786 | 6341333 | Orange Brown | Clay | 70 | B | Excellent | 96 |
| A2018337 | 410746 | 6341374 | Orange Brown | Clay | 60 | B | Good | 92 |
| A2018338 | 410711 | 6341410 | Brown | Silt-Sand | 45 | B | Average | 84 |
| A2018339 | 410679 | 6341447 | Reddish Brown | Clay | 35 | B | Good | 127 |
| A2018340 | 410644 | 6341484 | Reddish Brown | Silt-Sand | 40 | B | Good | 180 |
| A2018341 | 411314 | 6342074 | Olive Brown | Sand | 15 | C | Good | 2 |
| A2018342 | 411065 | 6342044 | Orange Brown | Sand | 40 | C | Good | 1 |
| A2018343 | 411031 | 6342080 | Orange | Sand-Gravel | 5 | Talus Chips | Good | 9 |
| A2018344 | 410996 | 6342117 | Brown | Sand | 50 | C | Good | 10 |
| A2018345 | 410957 | 6342157 | Brown | Sand | 10 | Talus Chips | Good | 11 |
| A2018346 | 411039 | 6342364 | Purple | Sand | 10 | Talus Chips | Good | 1 |
| A2018347 | 411073 | 6342326 | Orange Brown | Sand | 35 | C | Good | 1 |
| A2018348 | 411107 | 6342291 | Orange | Gravel | 0 | Talus Chips | Good | 4 |
| A2018349 | 411141 | 6342255 | Orange | Gravel | 0 | Talus Chips | Good | 3 |
| A2018350 | 411177 | 6342218 | Orange Brown | Silt | 85 | C | Good | 1 |
| A2018364 | 412082 | 6343009 | Yellowish Brown | Silt-Sand | 50 | B | Good | 8 |
| A2018365 | 412046 | 6343045 | Brown | Silt-Sand | 40 | B | Average | 8 |
| A2018366 | 412009 | 6343083 | Olive Brown | Silt | 60 | B | Good | 2 |
| A2018367 | 411974 | 6343128 | Brown | Gravel | 0 | A | Poor | 11 |
| A2018368 | 411916 | 6343188 | Brown | Silt-Sand | 0 | A | Poor | 13 |
| A2018369 | 411871 | 6343236 | Brown | Silt-Sand | 50 | B | Average | 4 |
| A2018370 | 411804 | 6343300 | Brown | Silt-Sand | 0 | Talus Chips | Average | 7 |
| A2018371 | 411771 | 6343335 | Brown | Silt-Sand | 0 | Talus Chips | Good | 0.5 |
| A2018372 | 411736 | 6343374 | Brown | Silt-Sand | 30 | B | Good | 10 |
| A2018373 | 411698 | 6343412 | Brown | Sand | 20 | B | Good | 6 |
| A2018374 | 411668 | 6343457 | Brown | Silt | 30 | B | Good | 826 |
| A2018375 | 411631 | 6343487 | Brown | Silt-Sand | 10 | B | Good | 18 |
| A2018376 | 411594 | 6343522 | Orange Brown | Silt | 30 | B | Good | 84 |
| A2018377 | 411559 | 6343559 | Reddish Brown | Clay | 60 | B | Excellent | 384 |
| A2018378 | 411529 | 6343589 | Brown | Clay | 50 | B | Good | 34 |
| A2018392 | 410901 | 6342509 | Orange Brown | Clay | 20 | B | Good | 4 |
| A2018393 | 411270 | 6342994 | Brown | Silt | 20 | B | Average | 1 |
| A2018394 | 411301 | 6342955 | Brown | Silt | 30 | B | Good | 4 |
| A2018395 | 411342 | 6342923 | Brown | Silt | 15 | B | Poor | 9 |
| A2018396 | 411371 | 6342888 | Brown | Silt-Sand | 30 | B | Good | 1 |
| A2018397 | 411408 | 6342854 | Orange Brown | Clay | 85 | B | Excellent | 1 |
| A2018398 | 411405 | 6342849 | Orange Brown | Clay | 85 | B | Excellent | 1 |
| A2018399 | 411439 | 6342810 | Gray | Sand | 20 | B | Good | 1 |
| A2018400 | 411469 | 6342770 | Orange Brown | Silt-Sand | 5 | Talus Chips | Average | 2 |
| A2018501 | 411763 | 6343049 | Brown | Silt-Sand | 25 | B | Average | 27 |
| A2018502 | 411731 | 6343089 | Brown | Silt-Sand | 30 | B | Average | 3 |
| A2018503 | 411698 | 6343123 | Brown | Silt-Sand | 30 | B | Poor | 2 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018504 | 411659 | 6343159 | Brown | Clay | 20 | B | Good | 1 |
| A2018505 | 411628 | 6343197 | Gray | Silt-Sand | 15 | Talus Chips | Average | 14 |
| A2018506 | 411591 | 6343230 | Brown | Silt | 15 | Talus Chips | Average | 1 |
| A2018507 | 411557 | 6343270 | Brown | Silt-Sand | 30 | B | Good | 119 |
| A2018508 | 411525 | 6343302 | Orange Brown | Silt-Sand | 20 | Talus Chips | Good | 154 |
| A2018509 | 411491 | 6343340 | Brown | Silt-Sand | 10 | Talus Chips | Average | 10 |
| A2018510 | 411454 | 6343381 | Brown | Sand-Gravel | 10 | Talus Chips | Average | 120 |
| A2018511 | 411420 | 6343416 | Brown | Silt | 30 | C | Average | 2 |
| A2018512 | 411385 | 6343448 | Orange Brown | Silt-Sand | 15 | B | Poor | 28 |
| A2018513 | 411350 | 6343483 | Reddish Brown | Silt-Sand | 15 | Talus Chips | Average | 14 |
| A2018514 | 411351 | 6343483 | Reddish Brown | Silt-Sand | 15 | Talus Chips | Average | 15 |
| A2018515 | 411688 | 6342566 | Brown | Sand-Gravel | 10 | Talus Chips | Average | 3 |
| A2018516 | 411503 | 6342734 | Brown | Silt-Sand | 10 | Talus Chips | Average | 1 |
| A2018517 | 411549 | 6342712 | Brown | Silt-Sand | 15 | Talus Chips | Good | 2 |
| A2018518 | 411587 | 6342713 | Brown | Clay | 10 | Talus Chips | Average | 1 |
| A2018519 | 411640 | 6342657 | Brown | Sand-Gravel | 2 | Talus Chips | Average | 3 |
| A2018520 | 411663 | 6342609 | Brown | Sand-Gravel | 5 | Talus Chips | Average | 5 |
| A2018521 | 411715 | 6342523 | Gray | Clay | 20 | Talus Chips | Average | 0.5 |
| A2018522 | 411750 | 6342487 | Reddish Brown | Silt-Sand | 10 | B | Poor | 1 |
| A2018523 | 411784 | 6342451 | Brown | Clay | 20 | B | Average | 3 |
| A2018524 | 411803 | 6342399 | Orange Yellow | Clay | 10 | Talus Chips | Average | 1 |
| A2018525 | 411548 | 6344053 | Orange | Silt-Sand | 10 | B | Good | 170 |
| A2018526 | 411493 | 6342174 | Brown | Sand | 5 | Talus Chips | Good | 4 |
| A2018527 | 411458 | 6342212 | Olive Brown | Sand-Gravel | 5 | Talus Chips | Good | 4 |
| A2018528 | 411423 | 6342247 | Olive Brown | Sand-Gravel | 5 | Talus Chips | Good | 3 |
| A2018529 | 411390 | 6342282 | Olive Brown | Sand | 10 | C | Good | 2 |
| A2018530 | 411356 | 6342320 | Olive Brown | Sand | 5 | Talus Chips | Good | 1 |
| A2018531 | 411322 | 6342356 | Olive Brown | Sand | 6 | Talus Chips | Good | 1 |
| A2018532 | 411286 | 6342392 | Brown | Sand-Gravel | 50 | C | Excellent | 1 |
| A2018533 | 411252 | 6342429 | Gray | Clay | 40 | B | Average | 0.5 |
| A2018534 | 411217 | 6342465 | Gray | Clay | 40 | B | Good | 1 |
| A2018535 | 411184 | 6342501 | Brown | Clay | 40 | B | Good | 2 |
| A2012439 | 409970 | 6344619 | Brown | Silt-Sand | 15 | A | Poor | 54 |
| A2012440 | 410035 | 6344544 | Brown | Silt-Sand | 15 | A | Average | 2 |
| A2012441 | 410070 | 6344504 | Brown | Silt-Sand | 20 | A | Poor | 19 |
| A2012442 | 410101 | 6344464 | Brown | Silt-Sand | 25 | B | Average | 26 |
| A2012443 | 410133 | 6344430 | Orange Brown | Silt | 30 | B | Average | 50 |
| A2012444 | 410322 | 6341601 | White | Silt-Sand | 40 | B | Average | 27 |
| A2012445 | 410167 | 6344392 | Orange Brown | Silt | 25 | B | Average | 19 |
| A2012446 | 410198 | 6344355 | Brown | Silt-Sand | 30 | B | Average | 26 |
| A2012447 | 410234 | 6344317 | Brown | Silt | 30 | B | Average | 19 |
| A2012448 | 410267 | 6344279 | Brown | Silt | 40 | B | Average | 67 |
| A2012449 | 410268 | 6344281 | Brown | Silt | 40 | B | Average | 15 |
| A2012450 | 409202 | 6344283 | Brown | Silt-Sand | 20 | A | Poor | 4 |
| A2012484 | 410841 | 6341052 | Orange Brown | Clay | 50 | B | Average | 47 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2012485 | 410807 | 6341087 | Brown | Silt | 50 | B | Average | 15 |
| A2012486 | 410773 | 6341124 | Brown | Silt-Sand | 35 | B | Average | 12 |
| A2012487 | 410738 | 6341160 | Brown | Silt-Sand | 50 | B | Average | 29 |
| A2012488 | 410703 | 6341196 | Brown | Silt-Sand | 15 | B | Average | 92 |
| A2012489 | 410670 | 6341232 | Yellowish Brown | Silt | 20 | B | Average | 47 |
| A2012490 | 410635 | 6341269 | Brown | Silt-Sand | 25 | B | Average | 30 |
| A2012491 | 410598 | 6341311 | Brown | Silt-Sand | 40 | B | Average | 14 |
| A2012492 | 410597 | 6341312 | Brown | Silt-Sand | 40 | B | Average | 14 |
| A2012493 | 410564 | 6341347 | Orange Brown | Silt-Sand | 50 | B | Average | 69 |
| A2012495 | 410530 | 6341381 | Other | Silt-Sand | 40 | B | Average | 44 |
| A2012496 | 410494 | 6341420 | Orange Brown | Silt-Sand | 45 | B | Average | 216 |
| A2012497 | 410459 | 6341456 | Orange Brown | Silt-Sand | 40 | B | Average | 86 |
| A2012498 | 410425 | 6341492 | Reddish Brown | Silt-Sand | 30 | B | Average | 116 |
| A2012499 | 410392 | 6341529 | Orange Brown | Silt-Sand | 10 | B | Poor | 72 |
| A2012500 | 410357 | 6341566 | Orange Brown | Silt-Sand | 10 | B | Poor | 97 |
| A2012582 | 410610 | 6341520 | Orange Brown | Clay | 35 | B | Good | 93 |
| A2012583 | 410577 | 6341557 | Orange Brown | Silt-Sand | 40 | Talus Chips | Good | 271 |
| A2012584 | 410542 | 6341590 | Orange Brown | Silt-Sand | 30 | B | Good | 90 |
| A2012585 | 410506 | 6341628 | Orange Brown | Clay | 60 | B | Good | 20 |
| A2012586 | 410472 | 6341662 | Orange Brown | Silt-Sand | 50 | B | Good | 108 |
| A2012587 | 410436 | 6341704 | Orange Yellow | Clay | 100 | B | Good | 8 |
| A2012588 | 410436 | 6341702 | Orange Yellow | Clay | 100 | C | Good | 6 |
| A2012589 | 410402 | 6341739 | Reddish Brown | Silt-Sand | 25 | B | Good | 165 |
| A2012590 | 410369 | 6341776 | Brown | Silt-Sand | 30 | B | Good | 113 |
| A2012591 | 410332 | 6341810 | Orange Brown | Silt-Sand | 45 | B | Good | 145 |
| A2012592 | 410302 | 6341850 | Orange Brown | Silt-Sand | 10 | Talus Chips | Good | 45 |
| A2012593 | 410264 | 6341883 | Orange Brown | Clay | 15 | Talus Chips | Average | 403 |
| A2012594 | 410227 | 6341927 | Orange | Clay | 5 | Talus Chips | Average | 97 |
| A2012595 | 410158 | 6342000 | Reddish Brown | Silt | 60 | B | Good | 142 |
| A2012596 | 410193 | 6341964 | Brown | Silt-Sand | 99 | B | Good | 29 |
| A2012597 | 410123 | 6342035 | Brown | Silt-Sand | 75 | B | Good | 453 |
| A2012598 | 410056 | 6342106 | Brown | Clay | 120 | B | Good | 612 |
| A2012599 | 410088 | 6342069 | Orange | Clay | 80 | C | Good | 64 |
| A2012600 | 410018 | 6342144 | Orange | Silt-Sand | 30 | B | Poor | 306 |
| A2012602 | 410756 | 6342372 | Orange Yellow | Clay | 110 | C | Excellent | 28 |
| A2012603 | 410788 | 6342335 | Orange Brown | Clay | 50 | B | Average | 92 |
| A2012604 | 410824 | 6342299 | Brown | Sand-Gravel | 15 | C | Poor | 5 |
| A2012605 | 410859 | 6342262 | Brown | Sand | 35 | C | Average | 2 |
| A2012606 | 410893 | 6342226 | Brown | Silt | 40 | B | Average | 1 |
| A2012607 | 410927 | 6342190 | Orange Brown | Silt | 50 | C | Good | 3 |
| A2012715 | 411916 | 6343414 | Brown | Silt-Sand | 20 | B | Good | 4 |
| A2012716 | 411880 | 6343452 | Brown | Silt-Sand | 50 | B | Good | 1 |
| A2012717 | 411848 | 6343488 | Brown | Sand-Gravel | 25 | C | Average | 9 |
| A2012718 | 411812 | 6343522 | Brown | Sand | 15 | C | Average | 2 |
| A2012719 | 411777 | 6343560 | Brown | Silt-Sand | 15 | A | Poor | 2 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2012720 | 411742 | 6343596 | Brown | Silt-Sand | 40 | A | Poor | 12 |
| A2012721 | 411709 | 6343634 | Brown | Silt | 25 | B | Good | 45 |
| A2012722 | 411673 | 6343669 | Orange Brown | Silt-Sand | 30 | B | Good | 3 |
| A2012723 | 411639 | 6343706 | Orange Brown | Clay | 40 | B | Good | 4 |
| A2012724 | 411606 | 6343742 | Orange Brown | Clay | 50 | B | Good | 31 |
| A2012725 | 411569 | 6343778 | Orange Brown | Clay | 40 | B | Good | 20 |
| A2012726 | 411567 | 6343777 | Orange Brown | Clay | 50 | B | Good | 21 |
| A2012727 | 411536 | 6343814 | Reddish Brown | Silt-Sand | 40 | B | Good | 20 |
| A2012728 | 411505 | 6343849 | Brown | Sand-Gravel | 25 | C | Good | 9 |
| A2012729 | 411446 | 6344161 | Orange Brown | Silt | 20 | B | Good | 49 |
| A2012730 | 411479 | 6344125 | Orange | Silt-Sand | 35 | B | Excellent | 67 |
| A2012731 | 411518 | 6344088 | Brown | Silt | 20 | A | Good | 15 |
| A2012732 | 411583 | 6344018 | Orange Brown | Silt-Sand | 15 | B | Average | 14 |
| A2012733 | 411600 | 6343961 | Orange Brown | Silt-Sand | 20 | B | Good | 123 |
| A2012734 | 411651 | 6343946 | Brown | Silt | 20 | B | Average | 132 |
| A2012735 | 411719 | 6343874 | Orange Brown | Silt-Sand | 30 | B | Average | 23 |
| A2012736 | 411928 | 6342586 | Gray | Clay | 25 | B | Good | 2 |
| A2012737 | 411893 | 6342624 | Green | Silt | 30 | B | Average | 5 |
| A2012738 | 411859 | 6342661 | Reddish Brown | Clay | 25 | B | Good | 3 |
| A2012739 | 411825 | 6342696 | Reddish Brown | Clay | 30 | B | Good | 2 |
| A2012740 | 411790 | 6342733 | Reddish Brown | Clay | 25 | B | Average | 4 |
| A2012741 | 411756 | 6342769 | Reddish Brown | Clay | 30 | B | Average | 3 |
| A2012742 | 411722 | 6342805 | Gray | Clay | 30 | B | Average | 2 |
| A2012743 | 411687 | 6342841 | Reddish Brown | Silt | 30 | B | Average | 1 |
| A2012744 | 411653 | 6342877 | Reddish Brown | Clay | 20 | B | Average | 0.5 |
| A2012745 | 411617 | 6342914 | Gray | Clay | 25 | B | Average | 0.5 |
| A2012746 | 411618 | 6342914 | Gray | Clay | 25 | B | Average | 1 |
| A2012747 | 411584 | 6342950 | Brown | Silt-Sand | 15 | A | Poor | 1 |
| A2012748 | 411550 | 6342987 | Brown | Sand-Gravel | 10 | C | Poor | 1 |
| A2012749 | 411515 | 6343023 | Reddish Brown | Silt | 15 | B | Poor | 1 |
| A2012750 | 411481 | 6343060 | Brown | Silt | 35 | B | Average | 135 |
| A2018001 | 411211 | 6342182 | Gray | Sand | 0 | C | Average | 1 |
| A2018002 | 411242 | 6342151 | Orange Brown | Sand | 0 | Talus Chips | Average | 2 |
| A2018003 | 411236 | 6341865 | Brown | Silt-Sand | 15 | A | Poor | 1 |
| A2018004 | 411203 | 6341899 | Orange Brown | Silt-Sand | 70 | C | Good | 0.5 |
| A2018005 | 411169 | 6341936 | Brown | Sand | 45 | C | Good | 8 |
| A2018006 | 411134 | 6341971 | Brown | Sand | 40 | C | Good | 27 |
| A2018007 | 411100 | 6342008 | Gray | Sand | 50 | C | Good | 0.5 |
| A2018008 | 412023 | 6343553 | Brown | Sand-Gravel | 30 | B | Average | 3 |
| A2018009 | 411994 | 6343584 | Brown | Sand | 35 | B | Average | 5 |
| A2018010 | 411963 | 6343628 | Brown | Sand | 55 | C | Good | 16 |
| A2018011 | 411925 | 6343656 | Green | Sand | 50 | C | Good | 2 |
| A2018012 | 411890 | 6343692 | Brown | Silt | 60 | A | Poor | 13 |
| A2018013 | 411856 | 6343728 | Brown | Silt | 50 | B | Average | 26 |
| A2018014 | 411822 | 6343765 | Gray | Sand | 50 | C | Average | 4 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018015 | 411821 | 6343768 | Gray | Sand | 50 | C | Average | 13 |
| A2018016 | 411788 | 6343802 | Brown | Silt | 40 | B | Good | 30 |
| A2018017 | 411752 | 6343837 | Brown | Silt-Sand | 35 | B | Average | 18 |
| A2018018 | 409224 | 6344576 | Brown | Sand | 35 | C | Good | 30 |
| A2018019 | 409256 | 6344526 | Brown | Silt-Sand | 50 | B | Average | 1 |
| A2018020 | 409288 | 6344488 | Orange Yellow | Sand | 60 | C | Excellent | 100 |
| A2018021 | 409320 | 6344449 | Orange Brown | Sand | 35 | B | Average | 12 |
| A2018022 | 409353 | 6344412 | Orange | Silt | 50 | B | Good | 25 |
| A2018023 | 409463 | 6344399 | Orange | Silt | 45 | B | Good | 33 |
| A2018024 | 409444 | 6344350 | Orange Brown | Sand | 60 | B | Average | 8 |
| A2018025 | 409451 | 6344299 | Orange Brown | Silt | 45 | B | Average | 32 |
| A2018026 | 409484 | 6344262 | Brown | Silt | 25 | B | Poor | 40 |
| A2018027 | 409518 | 6344224 | Orange Brown | Silt | 15 | B | Poor | 8 |
| A2018028 | 409550 | 6344186 | Orange | Silt | 30 | B | Good | 84 |
| A2018029 | 409586 | 6344155 | Orange Brown | Silt | 25 | B | Average | 29 |
| A2018030 | 409616 | 6344112 | Orange | Silt | 5 | B | Average | 137 |
| A2018031 | 409648 | 6344074 | Orange | Silt | 10 | B | Average | 470 |
| A2018032 | 409682 | 6344035 | Orange | Silt | 30 | B | Good | 53 |
| A2018033 | 409715 | 6343998 | Brown | Silt | 10 | B | Poor | 56 |
| A2018051 | 409982 | 6342179 | Orange Brown | Clay | 45 | B | Good | 162 |
| A2018052 | 409947 | 6342215 | Orange Brown | Clay | 45 | B | Good | 114 |
| A2018053 | 409915 | 6342247 | Orange Brown | Clay | 30 | B | Good | 1275 |
| A2018054 | 409967 | 6340772 | Orange Brown | Clay | 120 | B | Average | 2 |
| A2018055 | 409932 | 6340808 | Brown | Silt | 65 | B | Good | 2 |
| A2018056 | 409899 | 6340844 | Orange Brown | Sand | 30 | Talus Chips | Good | 1 |
| A2018057 | 409861 | 6340882 | Orange Brown | Clay | 75 | B | Good | 2 |
| A2018058 | 409832 | 6340916 | Gray | Silt-Sand | 30 | B | Poor | 7 |
| A2018059 | 409793 | 6340954 | Brown | Silt-Sand | 75 | B | Good | 1 |
| A2018061 | 409234 | 6344244 | Orange Brown | Silt-Sand | 20 | B | Average | 15 |
| A2018062 | 409269 | 6344205 | Brown | Silt-Sand | 15 | A | Poor | 3 |
| A2018063 | 409300 | 6344169 | Brown | Silt-Sand | 20 | A | Poor | 9 |
| A2018064 | 409333 | 6344130 | Orange Brown | Silt | 25 | B | Good | 22 |
| A2018065 | 409366 | 6344095 | Brown | Silt-Sand | 15 | A | Poor | 8 |
| A2018066 | 409400 | 6344055 | Yellowish Brown | Silt | 20 | B | Average | 20 |
| A2018067 | 409395 | 6344056 | Yellowish Brown | Silt | 20 | B | Average | 27 |
| A2018068 | 409431 | 6344018 | Brown | Silt-Sand | 20 | B | Average | 35 |
| A2018069 | 409464 | 6343981 | Yellowish Brown | Silt-Sand | 15 | B | Average | 26 |
| A2018070 | 409213 | 6343961 | Brown | Silt-Sand | 20 | B | Average | 12 |
| A2018071 | 409246 | 6343923 | Orange Brown | Silt | 15 | B | Good | 12 |
| A2018072 | 409281 | 6343884 | Orange Brown | Silt-Sand | 20 | B | Average | 13 |
| A2018073 | 409314 | 6343847 | Orange Brown | Silt | 25 | B | Good | 23 |
| A2018074 | 409348 | 6343813 | Orange Brown | Silt-Sand | 25 | B | Average | 194 |
| A2018075 | 409346 | 6343810 | Orange Brown | Silt-Sand | 25 | B | Average | 193 |
| A2018076 | 409380 | 6343774 | Brown | Clay | 15 | B | Average | 21 |
| A2018078 | 409413 | 6343733 | Brown | Silt | 20 | B | Average | 13 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018079 | 409445 | 6343698 | Orange Brown | Clay | 20 | B | Average | 19 |
| A2018086 | 409479 | 6343660 | Brown | Silt | 30 | B | Average | 13 |
| A2018087 | 409512 | 6343620 | Other | Clay | 30 | B | Average | 19 |
| A2018101 | 410920 | 6341908 | Gray | Sand-Gravel | 20 | Talus Chips | Poor | 0 |
| A2018102 | 410885 | 6341950 | Brown | Sand | 20 | Talus Chips | Poor | 30 |
| A2018103 | 410742 | 6341778 | Brown | Clay | 90 | B | Good | 9 |
| A2018104 | 410742 | 6341780 | Brown | Clay | 90 | B | Good | 10 |
| A2018105 | 410773 | 6341745 | Orange Brown | Silt | 50 | B | Good | 10 |
| A2018106 | 410809 | 6341707 | Brown | Clay | 70 | B | Good | 6 |
| A2018107 | 410844 | 6341671 | Brown | Silt | 50 | B | Good | 10 |
| A2018108 | 410875 | 6341633 | Brown | Silt | 60 | B | Good | 3 |
| A2018109 | 410911 | 6341599 | Brown | Clay | 60 | B | Good | 1 |
| A2018110 | 410948 | 6341567 | Brown | Silt | 50 | B | Average | 6 |
| A2018111 | 410981 | 6341528 | Brown | Silt-Sand | 40 | B | Average | 7 |
| A2018112 | 411012 | 6341489 | Brown | Silt-Sand | 40 | B | Good | 32 |
| A2018113 | 411045 | 6341458 | Orange Brown | Sand | 30 | Talus Chips | Average | 3 |
| A2018114 | 409715 | 6344604 | Orange Brown | Silt | 35 | B | Good | 46 |
| A2018115 | 409748 | 6344569 | Orange Brown | Silt-Sand | 40 | B | Good | 303 |
| A2018117 | 409785 | 6344525 | Orange Brown | Clay | 80 | B | Good | 123 |
| A2018118 | 409816 | 6344488 | Brown | Silt-Sand | 50 | B | Good | 32 |
| A2018119 | 409849 | 6344451 | Brown | Silt-Sand | 60 | B | Good | 56 |
| A2018120 | 409884 | 6344414 | Brown | Silt | 35 | B | Average | 72 |
| A2018121 | 409917 | 6344372 | Brown | Silt-Sand | 40 | B | Good | 49 |
| A2018122 | 409951 | 6344336 | Brown | Silt | 30 | B | Average | 50 |
| A2018123 | 409979 | 6344302 | Brown | Silt | 20 | B | Average | 54 |
| A2018124 | 410004 | 6344265 | Brown | Silt-Sand | 30 | B | Good | 41 |
| A2018125 | 410049 | 6344230 | Brown | Silt-Sand | 40 | B | Good | 39 |
| A2018126 | 410076 | 6344190 | Brown | Silt-Sand | 50 | B | Good | 27 |
| A2018127 | 409811 | 6343885 | Brown | Silt | 30 | B | Good | 80 |
| A2018128 | 409784 | 6343919 | Brown | Silt | 31 | B | Good | 29 |
| A2018129 | 409745 | 6343953 | Orange Brown | Silt | 40 | B | Good | 283 |
| A2018130 | 409192 | 6344445 | Brown | Silt-Sand | 35 | B | Good | 2 |
| A2018131 | 409220 | 6344412 | Brown | Silt-Sand | 80 | B | Good | 16 |
| A2018132 | 409255 | 6344375 | Brown | Silt | 40 | B | Good | 11 |
| A2018133 | 409287 | 6344336 | Brown | Silt | 50 | B | Good | 8 |
| A2018134 | 409322 | 6344301 | Brown | Silt-Sand | 40 | B | Good | 28 |
| A2018135 | 409353 | 6344262 | Orange Brown | Silt | 40 | B | Good | 7 |
| A2018136 | 409388 | 6344219 | Brown | Silt-Sand | 40 | B | Good | 35 |
| A2018137 | 409416 | 6344185 | Orange Brown | Silt | 60 | B | Good | 20 |
| A2018138 | 409450 | 6344146 | Reddish Orange | Sand | 45 | B | Excellent | 107 |
| A2018139 | 409485 | 6344108 | Orange Brown | Silt-Sand | 40 | B | Excellent | 79 |
| A2018140 | 409517 | 6344078 | Orange | Sand | 50 | B | Excellent | 120 |
| A2018143 | 409551 | 6344035 | Orange Brown | Silt | 60 | B | Excellent | 155 |
| A2018144 | 409495 | 6343949 | Brown | Silt | 30 | B | Good | 167 |
| A2018145 | 409529 | 6343907 | Brown | Silt | 35 | B | Good | 377 |

| Sample ID | UTM83_E | UTM83_N | Colour | Grain Size | Depth (cm) | Horizon | Quality | Au (ppb) |
|---|---|---|---|---|---|---|---|---|
| A2018146 | 409560 | 6343873 | Brown | Silt-Sand | 50 | B | Average | 236 |
| A2018147 | 409595 | 6343831 | Brown | Silt | 50 | B | Poor | 64 |
| A2018148 | 409199 | 6344120 | Orange Brown | Silt | 40 | B | Good | 17 |
| A2018149 | 409202 | 6344122 | Orange Brown | Silt | 40 | B | Good | 17 |
| A2018150 | 409234 | 6344083 | Orange Brown | Silt | 30 | B | Good | 5 |
| A2018151 | 410001 | 6340735 | Orange Brown | Clay | 30 | Talus Chips | Good | 7 |
| A2018152 | 410034 | 6340701 | Orange Red | Clay | 20 | Talus Chips | Good | 9 |

| Sample ID | Sample Photo |
|---|---|
| A2018153 | https://dl.dropbox.com/s/2almmusdk8n6gb7/field_50979715157c63866a47f1.jpg?dl=0 |
| A2018154 | https://dl.dropbox.com/s/8c4sono82erpo2j/field_77750918757c4e44c32298.jpg?dl=0 |
| A2018155 | https://dl.dropbox.com/s/duisv1xx6zn0mxq/field_102755132357c4e44787417.jpg?dl=0 |
| A2018156 | https://dl.dropbox.com/s/ru5fig2cekexg75/field_156911231157c4e43d48a06.jpg?dl=0 |
| A2018157 | https://dl.dropbox.com/s/yok00fh1w4ig7kz/field_108121519157c4e430a0421.jpg?dl=0 |
| A2018158 | https://dl.dropbox.com/s/ospkg55s5u0s12p/field_55975293657c4e42b18107.jpg?dl=0 |
| A2018159 | https://dl.dropbox.com/s/i9855x24werqera/field_168974088157c4e42413e69.jpg?dl=0 |
| A2018160 | https://dl.dropbox.com/s/idy999hq074dmum/field_83333665057c4e41cb3cda.jpg?dl=0 |
| A2018161 | https://dl.dropbox.com/s/ife5nlwd70zxw2t/field_213671285057c4e41387ddc.jpg?dl=0 |
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| Sample ID | Sample Photo |
| --- | --- |
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# APPENDIX C

## 2016 ROCK SAMPLE COORDINATES, DESCRIPTIONS, ASSAYS
## COORDINATES IN UTM NAD83 ZONE 9N

| Sample ID | UTM83_E | UTM83_N | Rock Type | Description |
|---|---|---|---|---|
| A2018540 | 409968 | 6342083 | Quartz Vein | Large float boulder of quartz+calcite with 1 cm bands of patchy tetrahedrite? Intergrown with cpy. Minor patches of arsenopyrite(?) |
| A2012623 | 409976 | 6342098 | Quartz Vein | float boulder of quartz+calcite with 1 cm bands of patchy tetrahedrite? Intergrown with cpy. Some colloform banded qtz-carb |
| A2012621 | 410009 | 6342061 | Quartz Vein | qtz-calcite vein float with 1% coarse crystalline pyrite blebs and fg pyrite associated with fg sphalerite patches |
| A2012624 | 409965 | 6342084 | Quartz Vein | Quarz-calcite vein |
| A2018541 | 410092 | 6342322 | Quartz Vein | colloform banded qtz-calcite vein |
| A2012622 | 410009 | 6342061 | Quartz Vein | banded qtz-calcite vein with smoky bands and 1% coarse crystalline pyrite as blebs, which look very much like cpy, and fine grained pyrite in |
| A2018542 | 410090 | 6342290 | Quartz Vein | Quartz-calcite vein |
| A2012619 | 410015 | 6342056 | Quartz Vein | oxidized, colloform banded qtz calcite vein |
| A2012618 | 410015 | 6342051 | Quartz Vein | Quartz-calcite vein |
| A2018539 | 409621 | 6344358 | Biotite Tuff | 10m wide zone of explosive quartz+calcite breccia veins with angular clasts of soft fg dark black (carbonaceous?) rock in vein. Blebs of chalcopyrite in vein oxidizing to malachite+azurite. All within 50m plus outcrop of stockwork quartz carbonate veins cm to m scale. 10m wide zone of intense qtz+cal+/-Fe-carb vein breccia with angular clasts of soft fg dark black (carbonaceous?) rock. 1 cm blebs of cpy oxidizing to |
| A2012632 | 410443 | 6343436 | Silicifed Volcanic | Large angular float boulders in creek. Not rusty weathering at all. Dark greenish grey silicified rock with 3% diss and blebby Py, and cut by intense qtz carb stockwork/ breccia. Some rhodochrosite? |
| A2012620 | 410008 | 6342060 | Quartz Vein | Quartz-calcite vein |
| A2012634 | 410424 | 6343485 | Chloritic Volcanic | High graded 10 cm calcite vein and selvage in chlorite altered volcanics. Same as last sample |
| A2012633 | 410416 | 6343472 | Chloritic Volcanic | Aphanitic green (chlorite altered?) volcanic with med grained diss pyrite cubes (6%) cut by calcite stockwork |
| A2018116 | 410034 | 6342125 | Quartz Vein | abundant colloform banded qtz vein found in creek. probably close to source. |
| A2012614 | 409466 | 6344438 | Chloritic Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012625 | 411049 | 6343255 | Silicifed Volcanic | Clay silica pyrite altered volcanics with pink phenocrysts exposed in creek |
| A2012631 | 410522 | 6343391 | Silicifed Volcanic | Light purplish gray aphanitic volcanic with moderate pervasive silicification and coarse diss Py. Pyrite mostly preserved and not oxidized due to lack of clay alteration and more silica floodig |
| A2018085 | 409334 | 6344110 | Chert | strongly weathered and gossanous cherty rock |
| A2012609 | 409423 | 6344423 | Silicifed Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012613 | 409444 | 6344433 | Silicifed Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012610 | 409421 | 6344425 | Silicifed Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012494 | 411962 | 6342508 | Dacite | very weathered/altered gossanous plag-phyric dacite with patches of semi massive med-grained euhedral-subhedral pyrite of dif colours. maybe some native copper too.found in float in cliffy area but havent seen other mineralization here. |
| A2012612 | 409443 | 6344433 | Chloritic Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2018202 | 409366 | 6344235 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018203 | 409431 | 6344178 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018204 | 409448 | 6344150 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |

| | | | | |
|---|---|---|---|---|
| A2012611 | 409441 | 6344427 | Chloritic Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2018543 | 411045 | 6343132 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2012626 | 410847 | 6343211 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018082 | 409326 | 6344123 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018084 | 409337 | 6344115 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018201 | 409329 | 6344315 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2018538 | 409639 | 6344360 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2012617 | 410240 | 6341369 | Siltstone | Drk grey siltstone with layers of carbonaceous woody fragments and 5 cm bands of massive pyrite |
| A2012627 | 410678 | 6343298 | Feldspar porphyry | Pink (k feldspar?) and ankerite altered feldspar porphyritic volcanic with 1mm blebs of diss Py. |
| A2018083 | 409345 | 6344119 | Chloritic Volcanic | Quartz-calcite vein stockwork cutting green volcanic rock. |
| A2012601 | 410820 | 6342795 | Silicifed Volcanic | Strongly clay silica pyrite altered rock exposed in creek. Zone at least 20 meters wide |
| A2012615 | 409485 | 6344445 | Chloritic Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012616 | 409481 | 6344443 | Chloritic Volcanic | qtz-calcite vein stockwork with minor pyrite cutting volcanics |
| A2012628 | 410677 | 6343294 | Feldspar porphyry | Calcite vein 3 cm thick with Minor Cpy and Py and light pink mineral cutting crowded feldspar porphyritic volcanic |
| A2012629 | 410605 | 6343356 | Altered Volcanic | Milky qtz carb veins cut by glassy qtz carb vein in clay ankerite altered volcanic with diss and veinlets of Py |
| A2012630 | 410578 | 6343372 | Feldspar porphyry | Strongly clay altered crowded feldspar porphyritic volcanic within extreme gossan. Feldspars replaced by clay and ground mass strongly silicified. Sulfides oxidized out and may have caused kaolinization. |
| A2018081 | 409285 | 6344227 | Altered Volcanic | Strongly oxidized and clay altered volcanic rock |
| A2012608 | 411141 | 6342250 | Altered Volcanic | Strongly oxidized and clay altered volcanic rock |
| A2018077 | 410049 | 6344547 | Clay altered volcanic | vein/dyke of extremely white clay altered vuggy volcanic rock |
| A2018536 | 411629 | 6342678 | Altered Volcanic | Strongly oxidized and clay altered volcanic rock |
| A2018537 | 410683 | 6341449 | Unknown | large boulder field of red silicified boulders with disseminated sulfides |
| HANKMB001 | 411869 | 6342935 | Quartz Vein | colloform banded qtz-calcite vein |

| Sample ID | UTM83_E | UTM83_N | Sample Photo |
|---|---|---|---|
| A2018540 | 409968 | 6342083 | |
| A2012623 | 409976 | 6342098 | |
| A2012621 | 410009 | 6342061 | |
| A2012624 | 409965 | 6342084 | |
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| A2012622 | 410009 | 6342061 | |
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| A2018203 | 409431 | 6344178 | |
| A2018204 | 409448 | 6344150 | |

| | | | |
|---|---|---|---|
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| A2018543 | 411045 | 6343132 | |
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| A2018536 | 411629 | 6342678 | https://dl.dropbox.com/s/a8927x59vgwt4yc/field_113519032457c24b4634de5.jpg?dl=0 |
| A2018537 | 410683 | 6341449 | https://dl.dropbox.com/s/7fqohyy22xdpwqg/field_157809969457c39f6e7780e.jpg?dl=0 |
| HANKMB001 | 411869 | 6342935 | https://dl.dropbox.com/s/hzqojiklwkg8ti4/field_139728812757c0fc1fca15e.jpg?dl=0 |

| Sample ID | UTM83_E | UTM83_N | Au_ppm | Ag_ppm | As_ppm | Cu_ppm | Pb_ppm | Sb_ppm | Zn_ppm |
|---|---|---|---|---|---|---|---|---|---|
| A2018540 | 409968 | 6342083 | 25.8 | 4790 | 658 | 15950 | 3480 | 9480 | 11350 |
| A2012623 | 409976 | 6342098 | 5.87 | 1220 | 322 | 3230 | 1520 | 1295 | 4660 |
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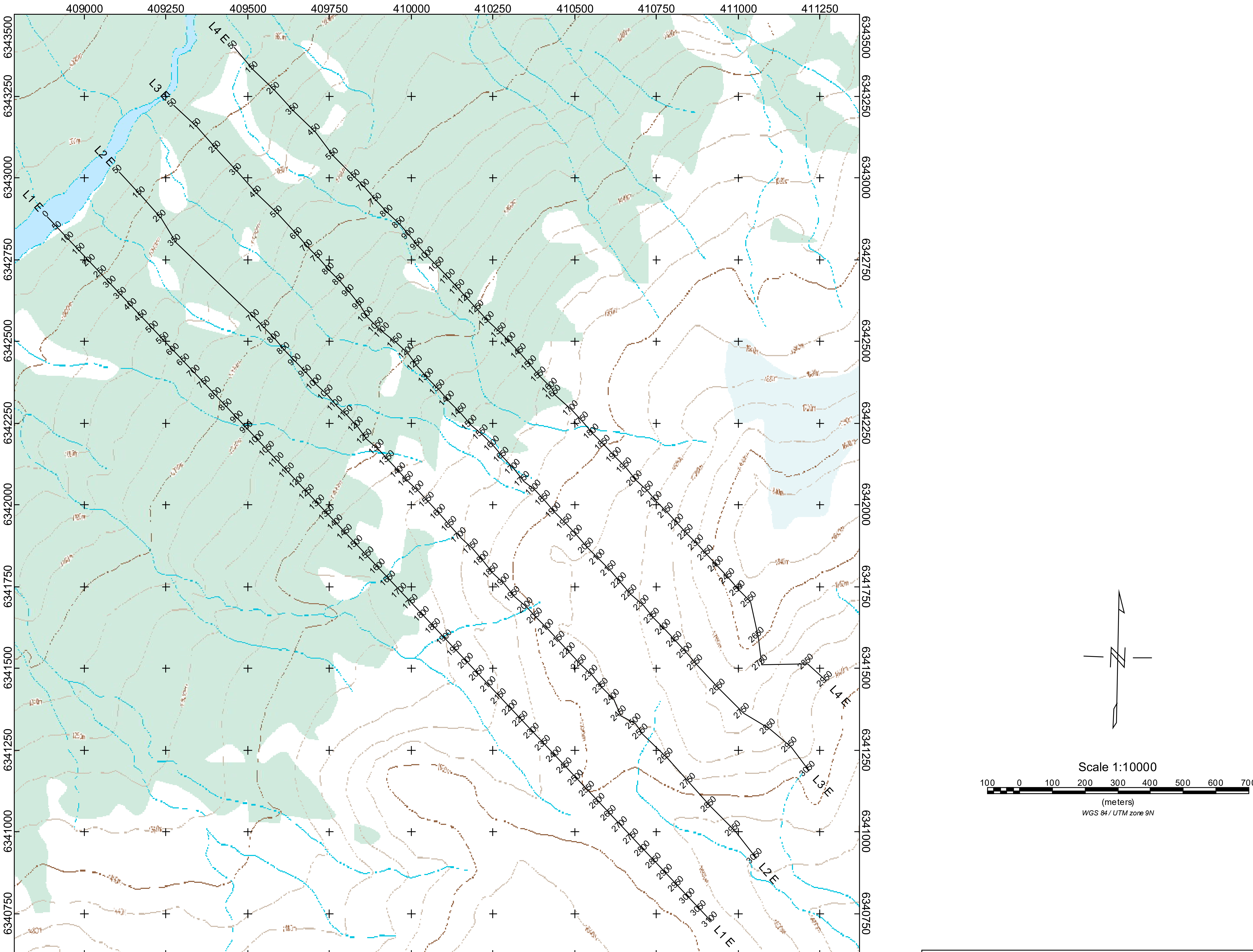
| A2012624 | 409965 | 6342084 | 0.66 | 17 | 387 | 45 | 77 | 15 | 197 |
| A2018541 | 410092 | 6342322 | 1.34 | 9.9 | 214 | 50 | 27 | 25 | 154 |
| A2012622 | 410009 | 6342061 | 7.07 | 7.3 | 324 | 16 | 7 | 30 | 25 |
| A2018542 | 410090 | 6342290 | 0.04 | 5.8 | 4 | 19 | 9 | 11 | 14 |
| A2012619 | 410015 | 6342056 | 0.44 | 5.6 | 137 | 19 | 33 | 11 | 36 |
| A2012618 | 410015 | 6342051 | 4.34 | 5.3 | 463 | 7 | 6 | 26 | 60 |
| A2018539 | 409621 | 6344358 | 0.06 | 4.3 | 424 | 2210 | 749 | 9 | 1060 |
| A2012632 | 410443 | 6343436 | 0.67 | 4.2 | 718 | 33 | 86 | 30 | 91 |
| A2012620 | 410008 | 6342060 | 0.7 | 4.1 | 159 | 17 | 10 | 4 | 25 |
| A2012634 | 410424 | 6343485 | 0.51 | 2.8 | 382 | 13 | 92 | 4 | 260 |
| A2012633 | 410416 | 6343472 | 0.36 | 1.3 | 25 | 6 | 6040 | 1 | 69 |
| A2018116 | 410034 | 6342125 | 0.51 | 1.3 | 198 | 5 | 2 | 19 | 22 |
| A2012614 | 409466 | 6344438 | 0.01 | 1 | 89 | 171 | 5 | 7 | 62 |
| A2012625 | 411049 | 6343255 | 0.03 | 1 | 5 | 12 | 9 | 1 | 29 |
| A2012631 | 410522 | 6343391 | 0.005 | 1 | 6 | 10 | 9 | 1 | 68 |
| A2018085 | 409334 | 6344110 | 0.28 | 0.9 | 15 | 96 | 25 | 1 | 22 |
| A2012609 | 409423 | 6344423 | 0.1 | 0.8 | 163 | 56 | 9 | 1 | 23 |
| A2012613 | 409444 | 6344433 | 0.01 | 0.8 | 36 | 85 | 8 | 3 | 42 |
| A2012610 | 409421 | 6344425 | 0.25 | 0.7 | 313 | 30 | 13 | 4 | 11 |
| A2012494 | 411962 | 6342508 | 0.005 | 0.6 | 838 | 38 | 18 | 65 | 45 |
| A2012612 | 409443 | 6344433 | 0.005 | 0.6 | 52 | 219 | 4 | 3 | 82 |
| A2018202 | 409366 | 6344235 | 0.005 | 0.6 | 11 | 103 | 1 | 2 | 73 |
| A2018203 | 409431 | 6344178 | 0.01 | 0.6 | 17 | 170 | 3 | 1 | 13 |
| A2018204 | 409448 | 6344150 | 0.02 | 0.6 | 7 | 233 | 2 | 3 | 24 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A2012611 | 409441 | 6344427 | 0.01 | 0.5 | 21 | 157 | 4 | 3 | 63 |
| A2018543 | 411045 | 6343132 | 0.005 | 0.5 | 5 | 19 | 9 | 1 | 80 |
| A2012626 | 410847 | 6343211 | 0.005 | 0.4 | 8 | 31 | 13 | 2 | 47 |
| A2018082 | 409326 | 6344123 | 0.005 | 0.4 | 22 | 146 | 17 | 2 | 50 |
| A2018084 | 409337 | 6344115 | 0.01 | 0.4 | 21 | 38 | 9 | 1 | 29 |
| A2018201 | 409329 | 6344315 | 0.005 | 0.4 | 33 | 24 | 11 | 3 | 191 |
| A2018538 | 409639 | 6344360 | 0.005 | 0.4 | 16 | 15 | 4 | 2 | 17 |
| A2012617 | 410240 | 6341369 | 0.005 | 0.3 | 323 | 32 | 26 | 35 | 26 |
| A2012627 | 410678 | 6343298 | 0.005 | 0.3 | 4 | 11 | 8 | 1 | 58 |
| A2018083 | 409345 | 6344119 | 0.01 | 0.3 | 17 | 8 | 13 | 3 | 46 |
| A2012601 | 410820 | 6342795 | 0.02 | 0.2 | 7 | 6 | 31 | 1 | 14 |
| A2012615 | 409485 | 6344445 | 0.005 | 0.2 | 19 | 10 | 1 | 1 | 23 |
| A2012616 | 409481 | 6344443 | 0.01 | 0.2 | 74 | 142 | 1 | 2 | 72 |
| A2012628 | 410677 | 6343294 | 0.005 | 0.2 | 5 | 151 | 4 | 1 | 51 |
| A2012629 | 410605 | 6343356 | 0.005 | 0.2 | 7 | 28 | 6 | 1 | 59 |
| A2012630 | 410578 | 6343372 | 0.005 | 0.2 | 5 | 8 | 14 | 1 | 7 |
| A2018081 | 409285 | 6344227 | 0.005 | 0.2 | 9 | 78 | 3 | 1 | 69 |
| A2012608 | 411141 | 6342250 | 0.005 | 0.1 | 8 | 16 | 8 | 1 | 76 |
| A2018077 | 410049 | 6344547 | 0.005 | 0.1 | 1 | 5 | 1 | 1 | 7 |
| A2018536 | 411629 | 6342678 | 0.005 | 0.1 | 6 | 9 | 15 | 4 | 97 |
| A2018537 | 410683 | 6341449 | 0.005 | 0.1 | 76 | 18 | 7 | 5 | 4 |
| HANKMB001 | 411869 | 6342935 | 0.005 | 0.1 | 9 | 26 | 15 | 1 | 73 |

# APPENDIX D

## IP SURVEY SECTION LINES

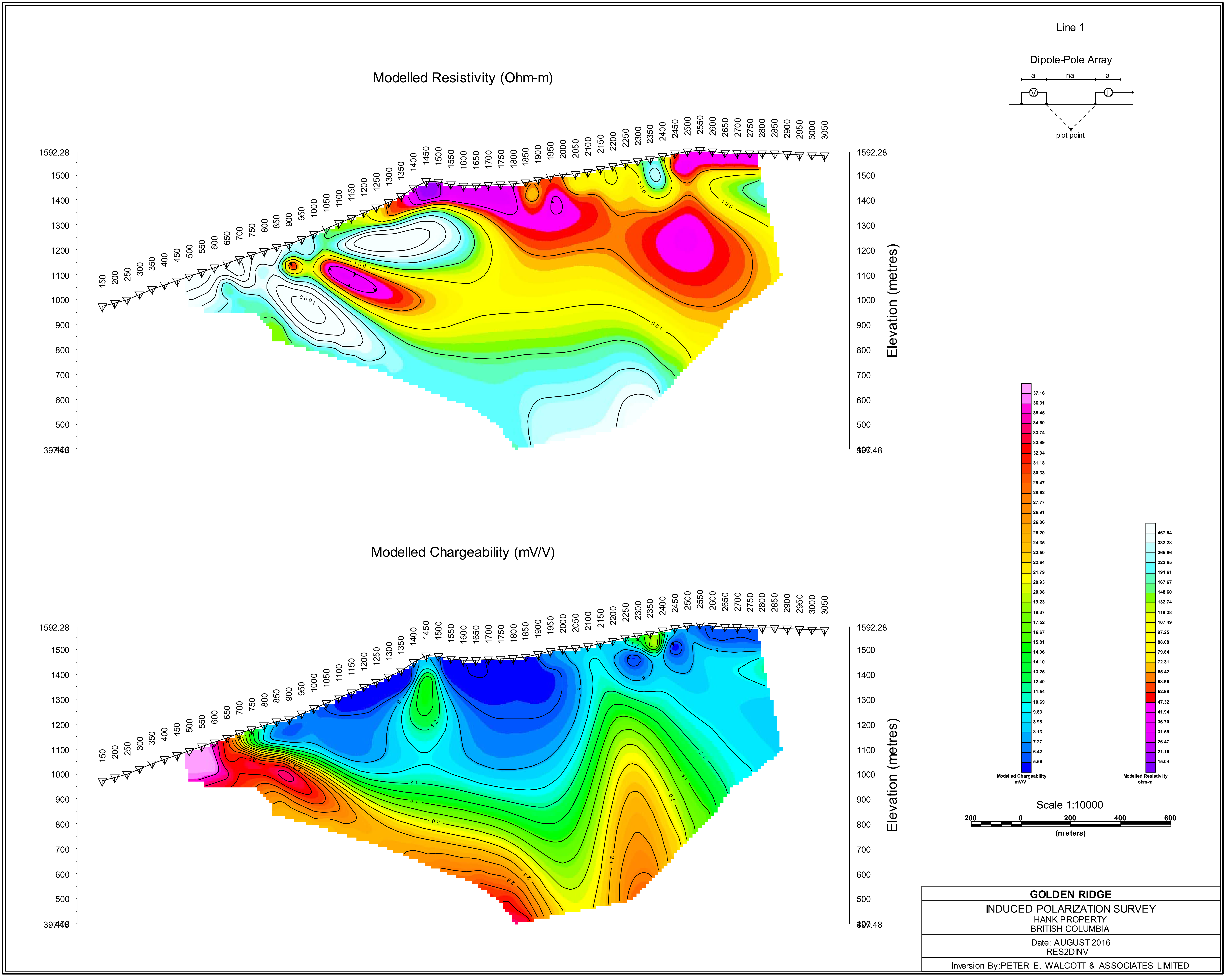



# GOLDEN RIDGE

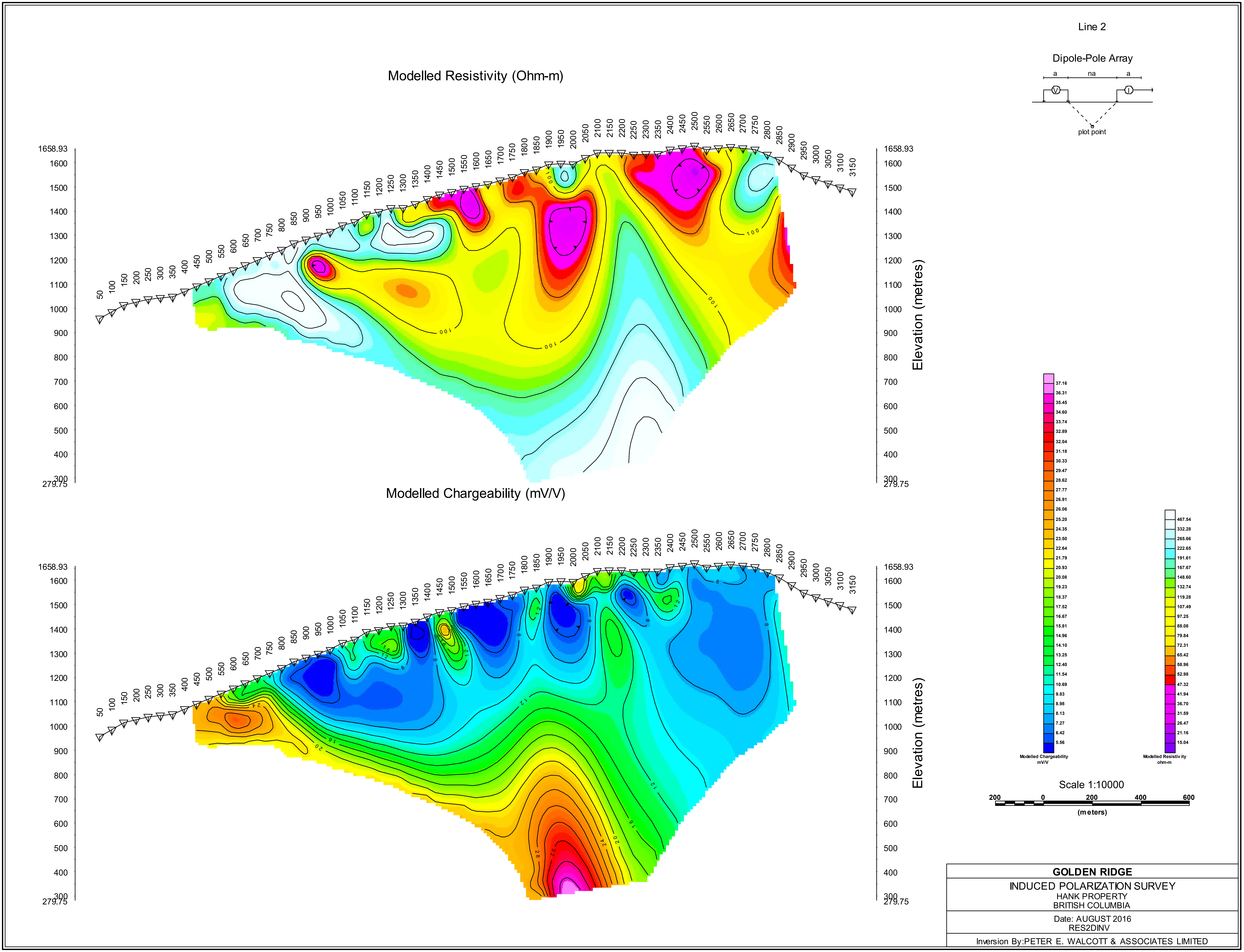
**INDUCED POLARIZATION SURVEY**
**LINE LOCATION MAP**

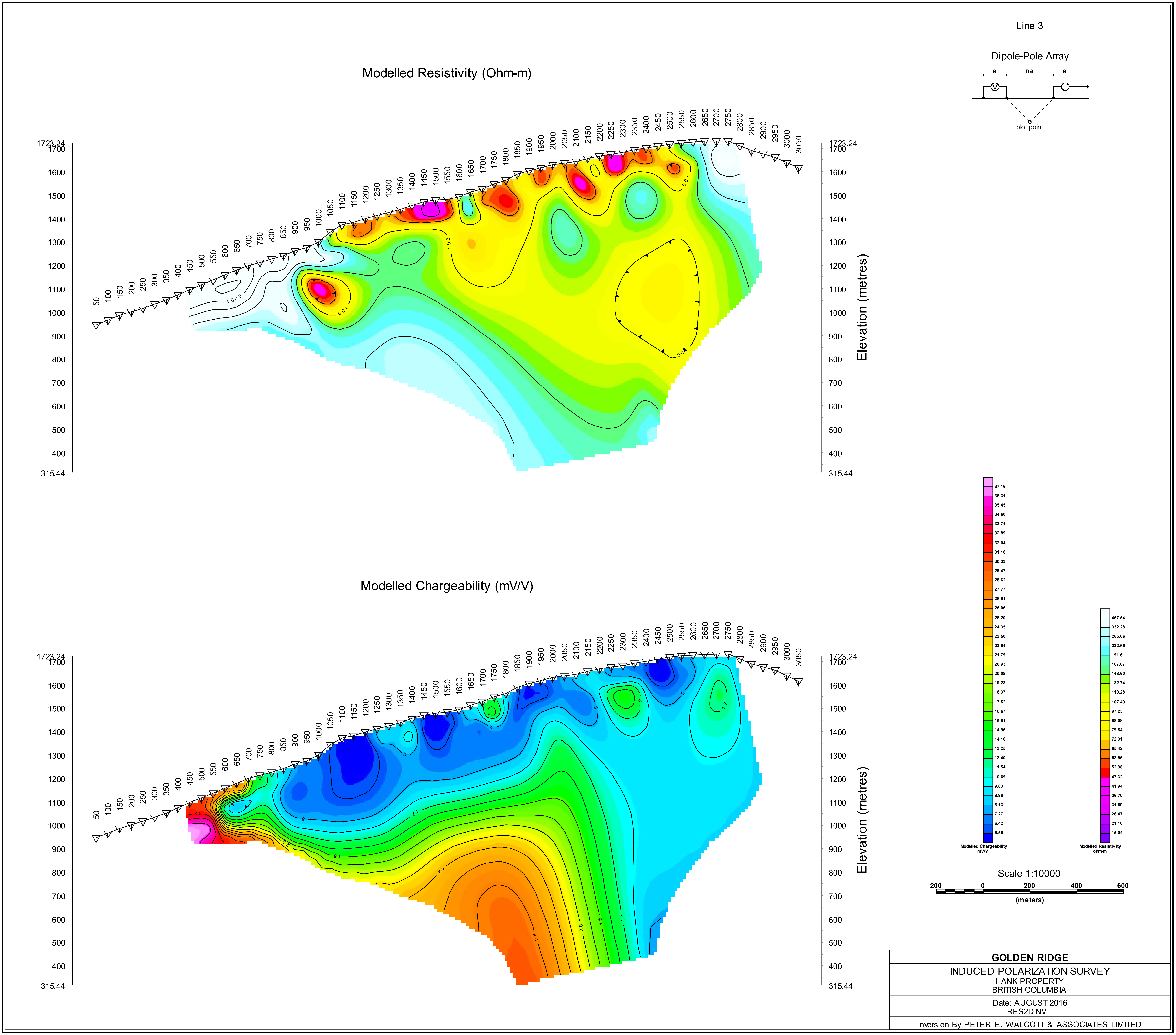
HANK PROPERTY
BC
AUG-SEPT 2016

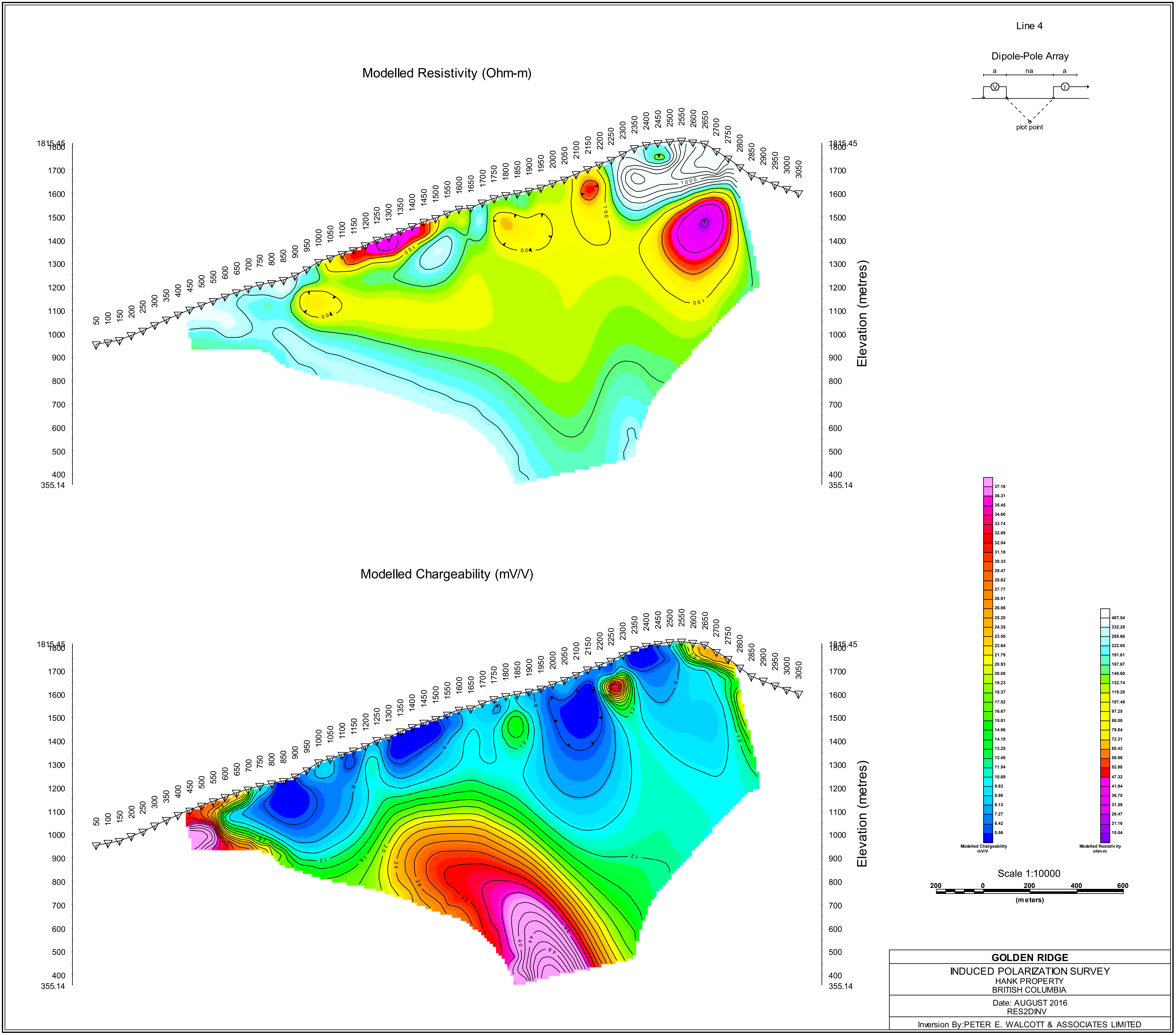
***PETER E. WALCOTT & ASSOCIATES LIMITED***



Line 1
Dipole-Pole Array
a
na
a
plot point
Modelled Resistivity (Ohm-m)
Modelled Chargeability (mV/V)
Elevation (metres)
1592.28
Modelled Chargeability mV/V
Modelled Resistivity ohm-m
Scale 1:10000
(meters)
GOLDEN RIDGE
INDUCED POLARIZATION SURVEY
HANK PROPERTY
BRITISH COLUMBIA
Date: AUGUST 2016
RES2DINV
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED


Line 2
Dipole-Pole Array
a
na
a
plot point
Modelled Resistivity (Ohm-m)
Modelled Chargeability (mV/V)
Elevation (metres)
Modelled Chargeability
mV/V
Modelled Resistivity
ohm-m
Scale 1:10000
(meters)
GOLDEN RIDGE
INDUCED POLARIZATION SURVEY
HANK PROPERTY
BRITISH COLUMBIA
Date: AUGUST 2016
RES2DINV
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED


Line 3
Dipole-Pole Array
a
na
a
plot point
Modelled Resistivity (Ohm-m)
Modelled Chargeability (mV/V)
Elevation (metres)
Modelled Chargeability mV/V
Modelled Resistivity ohm-m
Scale 1:10000
(meters)
GOLDEN RIDGE
INDUCED POLARIZATION SURVEY
HANK PROPERTY
BRITISH COLUMBIA
Date: AUGUST 2016
RES2DINV
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED


Line 4
Dipole-Pole Array
a
na
a
plot point
Modelled Resistivity (Ohm-m)
Modelled Chargeability (mV/V)
Elevation (metres)
1815.45
355.14
Modelled Chargeability mV/V
Modelled Resistivity ohm-m
Scale 1:10000
(meters)
GOLDEN RIDGE
INDUCED POLARIZATION SURVEY
HANK PROPERTY
BRITISH COLUMBIA
Date: AUGUST 2016
RES2DINV
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# APPENDIX E

## 2016 ANALYTICAL CERTIFICATES

ALS Minerals

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

# CERTIFICATE VA16149168

Project: HANK

This report is for 200 Soil samples submitted to our lab in Terrace, BC, Canada on 1-SEP-2016.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE BLADY | CHRIS PAUL | |

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Au-ICP21 | Au 30g FA ICP-AES Finish | ICP-AES |
| ME-MS41 | Ultra Trace Aqua Regia ICP-MS | |

To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**ATTN: CHRIS PAUL**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**

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

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

**Signature:**
Colin Ramshaw, Vancouver Laboratory Manager

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method | WEI-21 | Au-ICP21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| | Units | kg | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.01 | 0.01 | 0.1 | 0.2 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 |
| A2012439 | | 0.64 | 0.054 | 1.95 | 2.39 | 85.1 | <0.2 | <10 | 280 | 1.90 | 0.22 | 0.81 | 0.46 | 71.6 | 29.4 | 17 |
| A2012440 | | 0.54 | 0.002 | 0.64 | 2.57 | 69.1 | <0.2 | <10 | 220 | 1.29 | 0.17 | 0.51 | 0.37 | 27.7 | 36.6 | 14 |
| A2012441 | | 0.70 | 0.019 | 0.66 | 2.47 | 67.1 | <0.2 | 10 | 190 | 0.75 | 0.18 | 0.91 | 0.53 | 24.9 | 27.5 | 15 |
| A2012442 | | 0.64 | 0.026 | 1.00 | 2.32 | 56.7 | <0.2 | 10 | 270 | 0.90 | 0.18 | 1.28 | 0.45 | 27.6 | 24.2 | 28 |
| A2012443 | | 0.64 | 0.050 | 0.76 | 3.02 | 84.6 | <0.2 | <10 | 140 | 0.79 | 0.23 | 0.58 | 0.27 | 37.0 | 28.9 | 20 |
| A2012444 | | 0.74 | 0.027 | 0.10 | 0.74 | 79.0 | <0.2 | <10 | 570 | 0.11 | 0.82 | <0.01 | 0.01 | 1.08 | 0.3 | 1 |
| A2012445 | | 0.44 | 0.019 | 0.79 | 2.26 | 51.2 | <0.2 | <10 | 170 | 0.44 | 0.29 | 0.23 | 0.52 | 13.85 | 15.9 | 24 |
| A2012446 | | 0.80 | 0.026 | 0.39 | 2.27 | 53.9 | <0.2 | 10 | 220 | 0.92 | 0.12 | 0.66 | 0.34 | 29.7 | 29.8 | 25 |
| A2012447 | | 0.62 | 0.019 | 0.54 | 2.16 | 58.7 | <0.2 | <10 | 290 | 0.51 | 0.21 | 0.55 | 0.46 | 11.40 | 23.1 | 25 |
| A2012448 | | 0.50 | 0.067 | 0.46 | 2.13 | 46.2 | <0.2 | <10 | 220 | 0.78 | 0.26 | 0.62 | 0.49 | 23.4 | 25.8 | 22 |
| A2012449 | | 0.52 | 0.015 | 0.44 | 1.99 | 43.9 | <0.2 | <10 | 210 | 0.73 | 0.24 | 0.64 | 0.55 | 21.8 | 24.7 | 22 |
| A2012450 | | 0.62 | 0.004 | 0.16 | 2.35 | 17.9 | <0.2 | <10 | 180 | 0.84 | 0.13 | 0.11 | 0.15 | 11.95 | 15.5 | 14 |
| A2012484 | | 0.56 | 0.047 | 0.28 | 1.75 | 58.6 | <0.2 | <10 | 670 | 1.38 | 0.28 | 0.40 | 0.15 | 28.6 | 7.8 | 5 |
| A2012485 | | 0.70 | 0.015 | 0.21 | 2.64 | 21.5 | <0.2 | <10 | 290 | 1.30 | 0.25 | 0.32 | 0.26 | 30.0 | 10.8 | 6 |
| A2012486 | | 0.78 | 0.012 | 0.13 | 2.27 | 20.0 | <0.2 | <10 | 700 | 1.20 | 0.23 | 0.18 | 0.25 | 18.80 | 14.8 | 4 |
| A2012487 | | 0.68 | 0.029 | 0.11 | 2.36 | 16.8 | <0.2 | <10 | 370 | 1.01 | 0.24 | 0.10 | 0.13 | 9.73 | 12.4 | 5 |
| A2012488 | | 0.88 | 0.092 | 0.21 | 1.91 | 23.9 | <0.2 | <10 | 1020 | 1.00 | 0.25 | 0.38 | 0.33 | 13.50 | 20.1 | 5 |
| A2012489 | | 0.88 | 0.047 | 0.24 | 1.80 | 44.3 | <0.2 | <10 | 390 | 1.11 | 0.27 | 0.46 | 0.19 | 20.5 | 14.0 | 7 |
| A2012490 | | 0.60 | 0.030 | 0.33 | 2.67 | 50.3 | <0.2 | <10 | 200 | 1.46 | 0.37 | 0.07 | 0.17 | 44.7 | 6.7 | 8 |
| A2012491 | | 0.72 | 0.014 | 0.15 | 1.92 | 18.5 | <0.2 | <10 | 1290 | 1.12 | 0.19 | 0.30 | 0.23 | 13.55 | 16.6 | 4 |
| A2012492 | | 0.76 | 0.014 | 0.15 | 1.98 | 19.0 | <0.2 | <10 | 1330 | 1.30 | 0.19 | 0.32 | 0.23 | 13.70 | 16.9 | 4 |
| A2012493 | | 0.76 | 0.069 | 0.27 | 1.00 | 95.9 | <0.2 | <10 | 690 | 0.35 | 0.44 | 0.01 | 0.02 | 8.37 | 3.1 | 6 |
| A2012495 | | 0.86 | 0.044 | 0.20 | 0.50 | 67.7 | <0.2 | <10 | 200 | 0.13 | 0.38 | 0.01 | 0.01 | 3.60 | 0.6 | 2 |
| A2012496 | | 0.78 | 0.216 | 0.43 | 1.21 | 120.0 | 0.2 | <10 | 550 | 0.39 | 0.68 | 0.02 | 0.05 | 13.00 | 5.0 | 7 |
| A2012497 | | 0.80 | 0.086 | 0.48 | 2.01 | 190.5 | <0.2 | <10 | 340 | 0.96 | 0.79 | 0.04 | 0.15 | 21.8 | 6.4 | 11 |
| A2012498 | | 0.78 | 0.116 | 0.46 | 2.28 | 149.5 | <0.2 | <10 | 230 | 0.89 | 0.56 | 0.09 | 0.28 | 27.5 | 20.4 | 12 |
| A2012499 | | 0.14 | 0.072 | 0.14 | 0.41 | 362 | <0.2 | <10 | 120 | 0.06 | 0.70 | 0.01 | 0.02 | 2.06 | 1.4 | 5 |
| A2012500 | | 0.76 | 0.097 | 0.22 | 1.28 | 159.0 | <0.2 | <10 | 90 | 0.32 | 0.98 | 0.02 | 0.05 | 11.85 | 4.9 | 10 |
| A2012582 | | 0.52 | 0.093 | 0.21 | 1.50 | 153.0 | <0.2 | <10 | 220 | 0.48 | 1.06 | 0.02 | 0.09 | 15.95 | 5.3 | 5 |
| A2012583 | | 0.64 | 0.271 | 0.33 | 1.37 | 115.0 | 0.2 | <10 | 180 | 0.36 | 0.69 | 0.01 | 0.10 | 8.95 | 11.9 | 5 |
| A2012584 | | 0.66 | 0.090 | 0.50 | 1.61 | 102.0 | <0.2 | <10 | 660 | 0.57 | 1.31 | 0.04 | 0.22 | 18.30 | 9.3 | 5 |
| A2012585 | | 0.58 | 0.020 | 0.16 | 0.89 | 23.5 | <0.2 | <10 | 780 | 0.23 | 0.31 | 0.02 | 0.03 | 5.03 | 3.5 | 2 |
| A2012586 | | 0.58 | 0.108 | 0.38 | 1.65 | 88.7 | <0.2 | <10 | 750 | 0.87 | 0.85 | 0.14 | 0.15 | 26.8 | 8.7 | 8 |
| A2012587 | | 0.36 | 0.008 | 0.13 | 0.90 | 97.5 | <0.2 | <10 | 400 | 0.39 | 0.12 | 0.07 | 0.08 | 13.00 | 10.2 | 1 |
| A2012588 | | 0.56 | 0.006 | 0.13 | 0.92 | 101.0 | <0.2 | <10 | 350 | 0.44 | 0.11 | 0.07 | 0.07 | 13.40 | 11.0 | 1 |
| A2012589 | | 0.58 | 0.165 | 0.51 | 1.67 | 137.5 | <0.2 | <10 | 560 | 1.58 | 2.12 | 0.07 | 0.59 | 41.6 | 15.9 | 7 |
| A2012590 | | 0.42 | 0.113 | 0.32 | 1.03 | 127.5 | <0.2 | <10 | 350 | 0.46 | 25.2 | 0.02 | 0.06 | 13.60 | 3.1 | 4 |
| A2012591 | | 0.52 | 0.145 | 0.62 | 1.51 | 121.5 | <0.2 | <10 | 340 | 0.26 | 2.88 | 0.02 | 0.09 | 23.2 | 6.7 | 7 |
| A2012592 | | 0.64 | 0.045 | 0.22 | 0.25 | 167.0 | <0.2 | <10 | 350 | <0.05 | 3.86 | <0.01 | 0.08 | 1.57 | 1.3 | 4 |
| A2012593 | | 0.56 | 0.403 | 0.46 | 1.08 | 118.0 | 0.4 | <10 | 470 | 0.06 | 3.28 | 0.01 | 0.02 | 4.89 | 0.9 | 3 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Cs<br>ppm<br>0.05 | ME-MS41<br>Cu<br>ppm<br>0.2 | ME-MS41<br>Fe<br>%<br>0.01 | ME-MS41<br>Ga<br>ppm<br>0.05 | ME-MS41<br>Ge<br>ppm<br>0.05 | ME-MS41<br>Hf<br>ppm<br>0.02 | ME-MS41<br>Hg<br>ppm<br>0.01 | ME-MS41<br>In<br>ppm<br>0.005 | ME-MS41<br>K<br>%<br>0.01 | ME-MS41<br>La<br>ppm<br>0.2 | ME-MS41<br>Li<br>ppm<br>0.1 | ME-MS41<br>Mg<br>%<br>0.01 | ME-MS41<br>Mn<br>ppm<br>5 | ME-MS41<br>Mo<br>ppm<br>0.05 | ME-MS41<br>Na<br>%<br>0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012439 | | 5.89 | 147.0 | 7.68 | 11.25 | 0.12 | 0.16 | 0.14 | 0.083 | 0.18 | 33.4 | 14.3 | 0.96 | 2100 | 3.69 | 0.02 |
| A2012440 | | 4.07 | 92.7 | 7.96 | 15.60 | <0.05 | 0.05 | 0.04 | 0.077 | 0.24 | 11.9 | 14.7 | 0.91 | 3970 | 3.88 | 0.01 |
| A2012441 | | 4.84 | 121.0 | 6.36 | 9.98 | <0.05 | 0.03 | 0.06 | 0.061 | 0.18 | 10.5 | 12.8 | 0.93 | 2270 | 3.21 | 0.01 |
| A2012442 | | 4.32 | 180.0 | 6.68 | 13.50 | 0.05 | 0.07 | 0.07 | 0.060 | 0.21 | 12.6 | 13.4 | 1.12 | 1820 | 2.47 | 0.02 |
| A2012443 | | 4.84 | 246 | 7.17 | 11.45 | 0.05 | 0.08 | 0.07 | 0.067 | 0.15 | 11.2 | 20.0 | 1.05 | 2290 | 2.45 | 0.01 |
| A2012444 | | 1.24 | 3.9 | 1.37 | 2.40 | <0.05 | 0.02 | 0.55 | 0.015 | 0.14 | 0.5 | 0.7 | 0.02 | 17 | 1.75 | 0.01 |
| A2012445 | | 1.66 | 175.0 | 6.50 | 9.90 | <0.05 | 0.03 | 0.08 | 0.053 | 0.11 | 6.5 | 8.0 | 0.77 | 858 | 3.00 | 0.01 |
| A2012446 | | 3.43 | 155.0 | 6.96 | 9.25 | 0.06 | 0.03 | 0.10 | 0.059 | 0.14 | 13.5 | 13.4 | 1.16 | 2000 | 2.08 | 0.02 |
| A2012447 | | 1.00 | 92.9 | 5.60 | 7.60 | <0.05 | 0.02 | 0.17 | 0.052 | 0.09 | 4.7 | 11.9 | 0.79 | 1800 | 2.57 | 0.01 |
| A2012448 | | 3.31 | 140.0 | 6.20 | 9.23 | 0.05 | 0.04 | 0.05 | 0.059 | 0.16 | 10.4 | 12.6 | 0.93 | 2170 | 2.97 | 0.02 |
| A2012449 | | 3.15 | 129.5 | 5.83 | 8.64 | <0.05 | 0.03 | 0.05 | 0.056 | 0.16 | 9.5 | 11.7 | 0.89 | 2130 | 2.81 | 0.02 |
| A2012450 | | 3.82 | 49.7 | 5.55 | 14.70 | <0.05 | <0.02 | 0.04 | 0.062 | 0.10 | 5.9 | 19.6 | 0.53 | 2290 | 4.27 | 0.01 |
| A2012484 | | 2.18 | 26.0 | 6.02 | 7.10 | 0.06 | 0.20 | 0.80 | 0.062 | 0.12 | 15.0 | 12.4 | 0.29 | 164 | 6.03 | 0.02 |
| A2012485 | | 3.09 | 29.4 | 4.51 | 8.59 | 0.05 | 0.02 | 0.23 | 0.059 | 0.11 | 9.7 | 17.1 | 0.26 | 1760 | 4.32 | 0.01 |
| A2012486 | | 2.66 | 36.4 | 4.44 | 6.30 | <0.05 | 0.02 | 0.15 | 0.056 | 0.14 | 5.9 | 16.0 | 0.28 | 1460 | 1.71 | 0.01 |
| A2012487 | | 2.59 | 43.5 | 4.26 | 6.21 | <0.05 | 0.03 | 0.11 | 0.062 | 0.12 | 4.0 | 15.3 | 0.20 | 776 | 2.24 | 0.01 |
| A2012488 | | 2.74 | 48.3 | 4.86 | 5.13 | <0.05 | 0.02 | 0.24 | 0.055 | 0.16 | 4.7 | 15.7 | 0.27 | 1640 | 2.12 | 0.01 |
| A2012489 | | 2.71 | 47.3 | 4.47 | 4.92 | <0.05 | 0.04 | 0.51 | 0.056 | 0.12 | 9.1 | 13.7 | 0.25 | 382 | 1.90 | 0.01 |
| A2012490 | | 1.64 | 22.5 | 5.29 | 13.45 | 0.05 | 0.19 | 0.34 | 0.075 | 0.08 | 20.8 | 11.5 | 0.19 | 800 | 4.23 | 0.03 |
| A2012491 | | 2.89 | 37.0 | 4.70 | 6.39 | <0.05 | 0.02 | 0.14 | 0.050 | 0.15 | 5.3 | 14.1 | 0.28 | 1400 | 1.71 | 0.01 |
| A2012492 | | 2.91 | 37.7 | 4.85 | 6.51 | <0.05 | 0.02 | 0.15 | 0.049 | 0.16 | 5.4 | 14.9 | 0.29 | 1460 | 1.76 | 0.01 |
| A2012493 | | 1.30 | 24.8 | 11.50 | 6.29 | <0.05 | 0.04 | 1.96 | 0.052 | 0.09 | 4.0 | 2.4 | 0.10 | 159 | 4.75 | 0.01 |
| A2012495 | | 0.60 | 7.9 | 3.04 | 3.00 | <0.05 | 0.02 | 2.38 | 0.018 | 0.06 | 1.8 | 1.1 | 0.02 | 40 | 5.43 | <0.01 |
| A2012496 | | 1.16 | 47.3 | 12.85 | 13.25 | <0.05 | 0.08 | 0.84 | 0.095 | 0.11 | 6.5 | 3.6 | 0.15 | 368 | 8.31 | 0.01 |
| A2012497 | | 1.14 | 43.3 | 9.20 | 12.95 | <0.05 | 0.06 | 1.18 | 0.091 | 0.08 | 11.4 | 7.0 | 0.17 | 473 | 8.79 | 0.01 |
| A2012498 | | 1.01 | 45.6 | 7.36 | 8.46 | <0.05 | 0.04 | 1.72 | 0.069 | 0.08 | 12.5 | 7.8 | 0.35 | 1720 | 4.45 | 0.01 |
| A2012499 | | 0.61 | 83.9 | 26.8 | 12.95 | 0.06 | 0.14 | 0.32 | 0.135 | 0.03 | 1.0 | 0.5 | 0.01 | 44 | 13.00 | <0.01 |
| A2012500 | | 0.99 | 45.3 | 9.93 | 10.70 | <0.05 | 0.21 | 1.27 | 0.084 | 0.06 | 5.3 | 4.8 | 0.18 | 296 | 6.66 | 0.01 |
| A2012582 | | 0.94 | 37.8 | 5.39 | 4.06 | <0.05 | 0.02 | 1.44 | 0.074 | 0.11 | 8.7 | 3.7 | 0.22 | 288 | 11.00 | 0.01 |
| A2012583 | | 1.01 | 40.3 | 5.15 | 5.07 | <0.05 | <0.02 | 2.98 | 0.083 | 0.10 | 4.3 | 4.8 | 0.15 | 627 | 6.81 | 0.01 |
| A2012584 | | 0.57 | 30.9 | 5.82 | 5.25 | <0.05 | 0.03 | 2.35 | 0.080 | 0.12 | 9.3 | 5.1 | 0.21 | 740 | 7.87 | 0.01 |
| A2012585 | | 1.05 | 13.5 | 2.96 | 2.39 | <0.05 | <0.02 | 0.46 | 0.031 | 0.22 | 2.4 | 0.9 | 0.11 | 201 | 2.70 | 0.01 |
| A2012586 | | 0.61 | 32.5 | 6.72 | 7.75 | 0.05 | 0.18 | 0.36 | 0.071 | 0.11 | 13.6 | 5.5 | 0.29 | 552 | 7.44 | 0.02 |
| A2012587 | | 2.42 | 17.7 | 4.14 | 1.61 | <0.05 | <0.02 | 0.84 | 0.111 | 0.16 | 4.7 | 0.8 | 0.03 | 1260 | 1.52 | 0.01 |
| A2012588 | | 2.58 | 18.0 | 4.32 | 1.57 | <0.05 | <0.02 | 0.90 | 0.121 | 0.16 | 4.7 | 0.8 | 0.03 | 1380 | 1.37 | 0.01 |
| A2012589 | | 0.52 | 43.6 | 8.27 | 4.93 | 0.06 | 0.05 | 3.62 | 0.121 | 0.16 | 16.9 | 6.9 | 0.26 | 1680 | 17.10 | 0.01 |
| A2012590 | | 0.80 | 27.0 | 4.70 | 5.91 | 0.08 | 0.06 | 4.17 | 0.113 | 0.08 | 6.6 | 3.4 | 0.10 | 214 | 15.25 | 0.01 |
| A2012591 | | 0.51 | 40.0 | 6.49 | 4.19 | 0.05 | 0.06 | 1.55 | 0.086 | 0.14 | 9.9 | 3.6 | 0.21 | 379 | 8.01 | 0.01 |
| A2012592 | | 0.64 | 39.1 | 17.30 | 10.20 | 0.14 | 0.12 | 1.03 | 0.100 | 0.04 | 0.9 | 0.8 | 0.01 | 39 | 13.10 | 0.01 |
| A2012593 | | 2.32 | 11.3 | 4.56 | 3.64 | 0.10 | <0.02 | 5.07 | 0.067 | 0.11 | 2.4 | 0.7 | 0.03 | 58 | 6.47 | 0.01 |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method Analyte Units LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012439 | | 6.51 | 19.5 | 2100 | 116.0 | 14.3 | <0.001 | 0.03 | 4.63 | 20.6 | 1.7 | 1.7 | 47.3 | 0.06 | 0.10 | 2.1 |
| A2012440 | | 5.58 | 11.1 | 2240 | 33.9 | 24.3 | <0.001 | 0.05 | 2.41 | 8.8 | 0.8 | 1.3 | 41.1 | 0.01 | 0.07 | 0.5 |
| A2012441 | | 1.79 | 13.2 | 2910 | 36.8 | 17.0 | <0.001 | 0.08 | 2.64 | 5.4 | 0.8 | 0.6 | 48.3 | 0.01 | 0.11 | 0.2 |
| A2012442 | | 4.03 | 14.2 | 1730 | 27.2 | 20.3 | <0.001 | 0.07 | 2.92 | 8.2 | 0.9 | 1.1 | 52.5 | 0.01 | 0.10 | 0.3 |
| A2012443 | | 4.78 | 13.5 | 2240 | 37.4 | 16.2 | <0.001 | 0.05 | 3.85 | 7.9 | 1.1 | 0.9 | 28.8 | 0.03 | 0.16 | 0.6 |
| A2012444 | | 0.06 | 0.3 | 110 | 10.3 | 5.1 | 0.001 | 0.02 | 1.72 | 1.2 | 3.5 | 0.6 | 18.7 | <0.01 | 0.88 | 0.4 |
| A2012445 | | 1.85 | 13.8 | 1900 | 36.4 | 11.2 | <0.001 | 0.03 | 3.05 | 7.9 | 1.2 | 0.5 | 17.5 | <0.01 | 0.19 | 0.5 |
| A2012446 | | 0.60 | 20.5 | 1800 | 26.5 | 9.1 | <0.001 | 0.03 | 2.73 | 17.0 | 1.1 | 0.4 | 44.3 | <0.01 | 0.07 | 0.8 |
| A2012447 | | 1.30 | 16.4 | 2530 | 31.1 | 7.0 | <0.001 | 0.06 | 2.62 | 5.0 | 1.1 | 0.4 | 25.1 | <0.01 | 0.17 | 0.2 |
| A2012448 | | 1.92 | 14.9 | 2940 | 35.9 | 16.5 | 0.001 | 0.08 | 2.70 | 6.0 | 0.8 | 0.7 | 33.2 | 0.01 | 0.10 | 0.2 |
| A2012449 | | 1.82 | 14.4 | 2830 | 34.2 | 16.1 | <0.001 | 0.07 | 2.59 | 5.5 | 1.2 | 0.7 | 33.2 | <0.01 | 0.10 | 0.2 |
| A2012450 | | 3.57 | 13.7 | 2240 | 13.5 | 16.0 | <0.001 | 0.04 | 0.92 | 2.6 | 0.6 | 1.8 | 15.5 | 0.01 | 0.03 | <0.2 |
| A2012484 | | 3.06 | 2.4 | 560 | 14.4 | 14.3 | 0.001 | 0.03 | 2.45 | 7.1 | 2.1 | 1.1 | 85.7 | 0.01 | 0.18 | 2.0 |
| A2012485 | | 2.34 | 4.4 | 1060 | 15.4 | 12.6 | 0.001 | 0.06 | 1.15 | 2.3 | 1.6 | 1.2 | 59.0 | 0.01 | 0.08 | 0.2 |
| A2012486 | | 0.95 | 5.0 | 1140 | 17.1 | 9.1 | <0.001 | 0.03 | 0.81 | 4.3 | 0.9 | 0.9 | 27.4 | <0.01 | 0.08 | 0.7 |
| A2012487 | | 0.46 | 4.3 | 820 | 14.5 | 9.2 | <0.001 | 0.04 | 0.61 | 5.1 | 1.0 | 0.7 | 20.3 | <0.01 | 0.09 | 0.7 |
| A2012488 | | 0.23 | 6.7 | 810 | 19.2 | 8.4 | 0.001 | 0.04 | 0.87 | 7.5 | 1.3 | 0.6 | 67.9 | <0.01 | 0.11 | 1.7 |
| A2012489 | | 0.32 | 4.5 | 850 | 18.5 | 9.1 | 0.001 | 0.02 | 2.06 | 5.8 | 1.3 | 0.5 | 56.1 | <0.01 | 0.19 | 0.6 |
| A2012490 | | 20.9 | 5.0 | 1210 | 16.5 | 10.5 | <0.001 | 0.10 | 3.69 | 1.9 | 1.8 | 3.4 | 9.4 | 0.25 | 0.16 | 0.5 |
| A2012491 | | 0.42 | 5.0 | 920 | 17.5 | 9.2 | <0.001 | 0.06 | 0.96 | 6.1 | 1.0 | 0.7 | 52.1 | <0.01 | 0.09 | 1.8 |
| A2012492 | | 0.38 | 4.8 | 960 | 17.6 | 9.1 | <0.001 | 0.06 | 0.98 | 6.2 | 1.1 | 0.7 | 53.9 | <0.01 | 0.09 | 1.8 |
| A2012493 | | 1.88 | 1.7 | 1270 | 18.8 | 6.9 | 0.002 | 0.12 | 6.76 | 7.0 | 4.5 | 0.7 | 14.0 | 0.01 | 0.53 | 1.4 |
| A2012495 | | 1.03 | 0.3 | 290 | 17.9 | 3.6 | 0.002 | 0.06 | 1.66 | 1.2 | 4.2 | 0.9 | 29.9 | <0.01 | 2.56 | 0.3 |
| A2012496 | | 9.14 | 2.4 | 1340 | 32.0 | 7.2 | 0.005 | 0.19 | 7.27 | 8.1 | 4.8 | 3.7 | 27.1 | 0.05 | 0.51 | 2.7 |
| A2012497 | | 12.10 | 3.7 | 1350 | 37.6 | 11.6 | 0.003 | 0.13 | 10.00 | 2.5 | 5.8 | 2.6 | 20.7 | 0.05 | 0.78 | 0.6 |
| A2012498 | | 5.88 | 6.1 | 1320 | 36.9 | 9.5 | 0.001 | 0.08 | 10.70 | 3.2 | 3.6 | 1.4 | 15.9 | 0.06 | 0.51 | 0.6 |
| A2012499 | | 2.64 | 1.0 | 730 | 28.1 | 2.7 | 0.002 | 0.34 | 9.07 | 2.3 | 8.7 | 1.3 | 6.1 | 0.05 | 1.02 | 1.2 |
| A2012500 | | 6.05 | 5.9 | 1170 | 25.8 | 8.6 | 0.001 | 0.07 | 14.65 | 4.0 | 6.1 | 2.0 | 15.5 | 0.02 | 1.59 | 1.8 |
| A2012582 | | 0.35 | 2.2 | 1050 | 37.1 | 7.2 | 0.006 | 0.09 | 4.91 | 4.0 | 4.7 | 0.5 | 28.8 | <0.01 | 0.56 | 1.0 |
| A2012583 | | 1.04 | 3.6 | 900 | 27.5 | 7.0 | 0.001 | 0.05 | 3.81 | 3.6 | 4.6 | 0.9 | 35.3 | <0.01 | 1.69 | 0.6 |
| A2012584 | | 1.26 | 2.7 | 1260 | 36.5 | 8.0 | 0.003 | 0.11 | 5.59 | 2.6 | 6.4 | 0.7 | 40.8 | <0.01 | 1.03 | 0.4 |
| A2012585 | | 0.27 | 0.8 | 950 | 14.5 | 8.3 | 0.001 | 0.20 | 1.18 | 4.2 | 2.0 | 0.4 | 33.8 | <0.01 | 0.24 | 0.9 |
| A2012586 | | 3.16 | 5.3 | 1260 | 28.2 | 9.1 | 0.002 | 0.09 | 6.05 | 4.6 | 4.6 | 1.6 | 35.6 | 0.02 | 0.51 | 2.5 |
| A2012587 | | <0.05 | 0.8 | 2690 | 12.9 | 6.1 | 0.001 | 0.15 | 0.32 | 12.9 | 3.1 | 0.6 | 55.8 | <0.01 | 0.25 | 3.9 |
| A2012588 | | <0.05 | 0.9 | 3020 | 12.3 | 6.4 | 0.001 | 0.15 | 0.25 | 15.3 | 3.4 | 0.6 | 46.0 | <0.01 | 0.25 | 4.4 |
| A2012589 | | 2.08 | 3.7 | 1750 | 68.9 | 7.1 | 0.009 | 0.29 | 12.65 | 3.7 | 8.8 | 0.7 | 40.9 | 0.01 | 0.82 | 1.3 |
| A2012590 | | 4.00 | 2.2 | 710 | 31.8 | 4.7 | 0.008 | 0.09 | 32.5 | 1.5 | 23.3 | 1.1 | 21.3 | 0.02 | 0.82 | 0.7 |
| A2012591 | | 0.94 | 2.1 | 1390 | 73.0 | 7.7 | 0.007 | 0.26 | 11.10 | 4.1 | 9.6 | 0.6 | 30.0 | <0.01 | 3.76 | 1.4 |
| A2012592 | | 3.12 | 1.3 | 680 | 12.4 | 2.5 | 0.007 | 0.30 | 16.50 | 1.8 | 38.2 | 1.2 | 12.6 | 0.02 | 15.70 | 1.2 |
| A2012593 | | 0.40 | 1.3 | 530 | 75.3 | 5.3 | 0.004 | 0.16 | 10.60 | 2.0 | 33.1 | 0.4 | 20.3 | <0.01 | 5.16 | 0.5 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2012439 | | 0.077 | 0.32 | 0.82 | 181 | 0.42 | 33.0 | 152 | 10.9 |
| A2012440 | | 0.129 | 0.25 | 0.53 | 239 | 0.23 | 8.29 | 157 | 2.8 |
| A2012441 | | 0.064 | 0.17 | 0.41 | 179 | 0.25 | 8.56 | 140 | 1.2 |
| A2012442 | | 0.111 | 0.17 | 0.46 | 226 | 0.27 | 9.87 | 116 | 3.1 |
| A2012443 | | 0.110 | 0.18 | 0.47 | 206 | 0.25 | 8.80 | 133 | 4.1 |
| A2012444 | | <0.005 | 1.44 | 0.10 | 18 | <0.05 | 1.93 | 5 | 0.7 |
| A2012445 | | 0.076 | 0.12 | 0.40 | 183 | 0.25 | 4.47 | 128 | 1.2 |
| A2012446 | | 0.061 | 0.21 | 0.39 | 202 | 0.19 | 15.25 | 126 | 1.0 |
| A2012447 | | 0.036 | 0.15 | 0.34 | 120 | 0.17 | 5.26 | 163 | <0.5 |
| A2012448 | | 0.067 | 0.15 | 0.51 | 163 | 0.20 | 9.79 | 184 | 1.3 |
| A2012449 | | 0.066 | 0.14 | 0.44 | 156 | 0.21 | 8.84 | 178 | 1.2 |
| A2012450 | | 0.027 | 0.19 | 0.32 | 152 | 0.20 | 3.19 | 122 | <0.5 |
| A2012484 | | 0.019 | 0.50 | 1.79 | 64 | 0.07 | 17.50 | 86 | 13.0 |
| A2012485 | | 0.014 | 0.41 | 0.91 | 47 | 0.07 | 19.70 | 89 | 0.8 |
| A2012486 | | 0.007 | 0.35 | 0.54 | 38 | <0.05 | 13.95 | 97 | 0.7 |
| A2012487 | | <0.005 | 0.49 | 0.45 | 45 | <0.05 | 11.25 | 90 | 0.6 |
| A2012488 | | <0.005 | 0.55 | 0.46 | 43 | <0.05 | 14.25 | 107 | 0.8 |
| A2012489 | | <0.005 | 0.30 | 0.65 | 46 | <0.05 | 15.65 | 118 | 1.0 |
| A2012490 | | 0.054 | 0.44 | 1.23 | 45 | 0.37 | 14.00 | 105 | 14.1 |
| A2012491 | | <0.005 | 0.36 | 0.46 | 43 | <0.05 | 15.25 | 97 | 0.9 |
| A2012492 | | <0.005 | 0.38 | 0.47 | 44 | <0.05 | 15.40 | 99 | 0.9 |
| A2012493 | | 0.023 | 0.73 | 0.53 | 81 | 0.07 | 2.93 | 39 | 2.9 |
| A2012495 | | 0.005 | 0.33 | 0.27 | 33 | <0.05 | 1.64 | 9 | 1.2 |
| A2012496 | | 0.037 | 2.25 | 0.80 | 79 | 0.35 | 3.00 | 53 | 10.0 |
| A2012497 | | 0.038 | 1.68 | 0.72 | 92 | 0.30 | 4.48 | 77 | 4.3 |
| A2012498 | | 0.030 | 1.41 | 0.64 | 90 | 0.20 | 7.63 | 104 | 2.8 |
| A2012499 | | 0.028 | 1.28 | 0.15 | 174 | 0.06 | 0.52 | 19 | 11.7 |
| A2012500 | | 0.089 | 3.14 | 0.61 | 85 | 0.12 | 2.17 | 53 | 17.1 |
| A2012582 | | <0.005 | 1.29 | 0.36 | 53 | 0.05 | 3.71 | 60 | 0.8 |
| A2012583 | | 0.010 | 0.90 | 0.51 | 51 | <0.05 | 3.14 | 52 | 0.7 |
| A2012584 | | 0.005 | 0.71 | 0.40 | 58 | 0.09 | 5.09 | 67 | 1.2 |
| A2012585 | | 0.005 | 0.79 | 0.33 | 32 | <0.05 | 2.42 | 20 | <0.5 |
| A2012586 | | 0.081 | 0.86 | 0.74 | 65 | 0.13 | 10.20 | 74 | 18.3 |
| A2012587 | | <0.005 | 0.65 | 0.25 | 15 | <0.05 | 8.38 | 75 | <0.5 |
| A2012588 | | <0.005 | 0.65 | 0.27 | 15 | <0.05 | 8.93 | 82 | <0.5 |
| A2012589 | | 0.011 | 1.47 | 0.65 | 62 | 0.10 | 10.60 | 84 | 3.8 |
| A2012590 | | 0.008 | 1.48 | 0.38 | 37 | 0.09 | 2.70 | 39 | 4.4 |
| A2012591 | | 0.008 | 1.27 | 0.64 | 59 | 0.07 | 3.04 | 60 | 4.9 |
| A2012592 | | 0.045 | 2.01 | 0.09 | 74 | 0.08 | 0.32 | 15 | 9.0 |
| A2012593 | | <0.005 | 2.42 | 0.14 | 27 | <0.05 | 1.38 | 10 | 0.9 |

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

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**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-ICP21 Au ppm 0.001 | ME-MS41 Ag ppm 0.01 | ME-MS41 Al % 0.01 | ME-MS41 As ppm 0.1 | ME-MS41 Au ppm 0.2 | ME-MS41 B ppm 10 | ME-MS41 Ba ppm 10 | ME-MS41 Be ppm 0.05 | ME-MS41 Bi ppm 0.01 | ME-MS41 Ca % 0.01 | ME-MS41 Cd ppm 0.01 | ME-MS41 Ce ppm 0.02 | ME-MS41 Co ppm 0.1 | ME-MS41 Cr ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012594 | | 0.54 | 0.097 | 0.30 | 0.67 | 66.5 | <0.2 | <10 | 130 | 0.07 | 2.38 | 0.01 | 0.01 | 4.42 | 1.4 | 4 |
| A2012595 | | 0.38 | 0.142 | 1.24 | 2.74 | 105.5 | <0.2 | <10 | 410 | 0.65 | 1.34 | 0.05 | 0.27 | 43.1 | 23.1 | 10 |
| A2012596 | | 0.52 | 0.029 | 0.15 | 1.31 | 48.8 | <0.2 | <10 | 180 | 0.38 | 0.94 | 0.01 | 0.06 | 25.4 | 8.3 | 2 |
| A2012597 | | 0.48 | 0.453 | 1.10 | 2.67 | 181.0 | 0.4 | <10 | 130 | 0.82 | 0.33 | 0.04 | 0.16 | 30.7 | 21.5 | 11 |
| A2012598 | | 0.66 | 0.612 | 2.42 | 0.36 | 359 | 0.5 | <10 | 110 | 0.78 | 0.05 | 1.25 | 0.28 | 32.0 | 18.3 | <1 |
| A2012599 | | 0.68 | 0.064 | 0.69 | 0.37 | 115.0 | <0.2 | <10 | 220 | 0.15 | 0.01 | 0.35 | <0.01 | 10.80 | 0.7 | <1 |
| A2012600 | | 0.48 | 0.306 | 1.78 | 0.67 | 135.5 | 0.2 | <10 | 350 | 0.65 | 0.15 | 0.40 | 0.24 | 24.7 | 14.2 | 1 |
| A2012602 | | 0.56 | 0.028 | 0.23 | 1.39 | 32.4 | <0.2 | <10 | 1400 | 0.54 | 0.33 | 0.46 | 0.06 | 29.4 | 8.4 | 1 |
| A2012603 | | 0.62 | 0.092 | 0.51 | 1.95 | 129.0 | <0.2 | <10 | 410 | 0.97 | 0.59 | 0.23 | 0.21 | 34.4 | 18.1 | 8 |
| A2012604 | | 0.68 | 0.005 | 0.09 | 5.04 | 3.9 | <0.2 | <10 | 1160 | 1.35 | 0.06 | 1.19 | 0.23 | 33.8 | 35.2 | 2 |
| A2012605 | | 0.60 | 0.002 | 0.07 | 2.42 | 4.5 | <0.2 | 10 | 610 | 1.19 | 0.05 | 1.05 | 0.41 | 43.4 | 24.6 | 1 |
| A2012606 | | 0.66 | 0.001 | 0.08 | 3.27 | 3.3 | <0.2 | 10 | 620 | 1.09 | 0.02 | 0.75 | 0.19 | 53.1 | 29.4 | 1 |
| A2012607 | | 0.66 | 0.003 | 0.09 | 2.63 | 6.0 | <0.2 | <10 | 1020 | 0.98 | 0.10 | 0.82 | 0.24 | 38.4 | 22.3 | 1 |
| A2012715 | | 0.72 | 0.004 | 0.13 | 3.69 | 18.3 | <0.2 | 10 | 1000 | 1.09 | 0.03 | 1.21 | 0.22 | 50.3 | 23.7 | 3 |
| A2012716 | | 0.48 | 0.001 | 0.15 | 3.17 | 15.4 | <0.2 | 10 | 860 | 1.01 | 0.02 | 0.90 | 0.45 | 48.2 | 20.3 | 2 |
| A2012717 | | 0.78 | 0.009 | 0.23 | 3.08 | 10.2 | <0.2 | 10 | 520 | 1.01 | 0.05 | 1.55 | 0.42 | 45.8 | 26.9 | 2 |
| A2012718 | | 0.66 | 0.002 | 0.12 | 2.31 | 6.2 | <0.2 | 10 | 570 | 0.99 | 0.04 | 1.07 | 0.44 | 40.5 | 23.9 | 2 |
| A2012719 | | 0.50 | 0.002 | 0.17 | 2.46 | 9.8 | <0.2 | 10 | 910 | 1.13 | 0.09 | 1.04 | 0.41 | 44.7 | 23.9 | 5 |
| A2012720 | | 0.52 | 0.012 | 0.72 | 2.79 | 37.7 | <0.2 | <10 | 500 | 1.20 | 0.23 | 0.74 | 0.42 | 47.6 | 13.6 | 9 |
| A2012721 | | 0.50 | 0.045 | 0.57 | 2.82 | 48.0 | <0.2 | <10 | 430 | 1.17 | 0.25 | 0.51 | 0.24 | 48.5 | 17.5 | 9 |
| A2012722 | | 0.64 | 0.003 | 0.56 | 2.77 | 7.5 | <0.2 | <10 | 360 | 0.84 | 0.09 | 0.27 | 0.35 | 26.2 | 10.0 | 5 |
| A2012723 | | 0.52 | 0.004 | 0.17 | 2.63 | 21.1 | <0.2 | <10 | 380 | 1.30 | 0.07 | 0.77 | 0.21 | 42.4 | 18.9 | 5 |
| A2012724 | | 0.52 | 0.031 | 1.06 | 2.83 | 77.8 | <0.2 | <10 | 400 | 3.16 | 0.31 | 0.50 | 0.34 | 115.0 | 14.9 | 11 |
| A2012725 | | 0.60 | 0.020 | 0.50 | 3.59 | 42.4 | <0.2 | <10 | 340 | 3.24 | 0.35 | 0.17 | 0.12 | 99.4 | 9.9 | 10 |
| A2012726 | | 0.54 | 0.021 | 0.55 | 3.59 | 44.4 | <0.2 | <10 | 350 | 3.11 | 0.38 | 0.15 | 0.13 | 112.0 | 8.9 | 9 |
| A2012727 | | 0.72 | 0.020 | 0.23 | 1.74 | 30.9 | <0.2 | <10 | 590 | 0.95 | 0.22 | 0.51 | 0.33 | 39.7 | 21.4 | 8 |
| A2012728 | | 0.84 | 0.009 | 0.27 | 1.69 | 20.6 | <0.2 | 10 | 1010 | 1.02 | 0.14 | 0.67 | 0.51 | 55.4 | 16.5 | 6 |
| A2012729 | | 0.50 | 0.049 | 0.71 | 2.46 | 79.3 | <0.2 | <10 | 280 | 0.69 | 0.20 | 0.14 | 0.22 | 16.50 | 14.3 | 12 |
| A2012730 | | 0.60 | 0.067 | 2.29 | 3.00 | 129.5 | <0.2 | <10 | 210 | 1.05 | 0.28 | 0.12 | 0.26 | 52.4 | 17.5 | 13 |
| A2012731 | | 0.40 | 0.015 | 1.21 | 1.99 | 34.4 | <0.2 | <10 | 780 | 0.99 | 0.13 | 1.95 | 0.33 | 26.0 | 10.4 | 9 |
| A2012732 | | 0.40 | 0.014 | 0.55 | 2.22 | 34.1 | <0.2 | <10 | 190 | 0.89 | 0.20 | 0.07 | 0.20 | 20.5 | 9.1 | 12 |
| A2012733 | | 0.58 | 0.123 | 0.88 | 2.62 | 93.9 | <0.2 | <10 | 140 | 0.67 | 0.23 | 0.08 | 0.23 | 19.90 | 9.6 | 13 |
| A2012734 | | 0.52 | 0.132 | 0.44 | 2.39 | 85.1 | <0.2 | <10 | 330 | 0.84 | 0.27 | 0.31 | 0.23 | 33.9 | 16.6 | 15 |
| A2012735 | | 0.50 | 0.023 | 0.22 | 3.01 | 47.4 | <0.2 | <10 | 130 | 0.90 | 0.29 | 0.09 | 0.22 | 40.8 | 12.0 | 15 |
| A2012736 | | 0.82 | 0.002 | 0.14 | 1.04 | 18.0 | <0.2 | 10 | 420 | 1.26 | 0.06 | 1.04 | 0.19 | 25.0 | 22.6 | 2 |
| A2012737 | | 0.92 | 0.005 | 0.14 | 1.66 | 28.1 | <0.2 | 10 | 360 | 1.55 | 0.13 | 0.66 | 0.27 | 37.8 | 31.5 | 2 |
| A2012738 | | 0.64 | 0.003 | 0.17 | 1.27 | 30.6 | <0.2 | 10 | 530 | 1.09 | 0.08 | 0.81 | 0.24 | 31.1 | 22.5 | 2 |
| A2012739 | | 0.64 | 0.002 | 0.13 | 1.47 | 22.9 | <0.2 | 10 | 740 | 1.08 | 0.05 | 1.33 | 0.20 | 33.9 | 20.0 | 2 |
| A2012740 | | 0.76 | 0.004 | 0.14 | 1.53 | 40.3 | <0.2 | <10 | 750 | 0.72 | 0.09 | 0.84 | 0.21 | 27.4 | 17.7 | 2 |
| A2012741 | | 0.64 | 0.003 | 0.12 | 1.87 | 17.2 | <0.2 | <10 | 560 | 0.85 | 0.10 | 1.01 | 0.25 | 28.4 | 21.4 | 2 |

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

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Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Cs ppm 0.05 | ME-MS41 Cu ppm 0.2 | ME-MS41 Fe % 0.01 | ME-MS41 Ga ppm 0.05 | ME-MS41 Ge ppm 0.05 | ME-MS41 Hf ppm 0.02 | ME-MS41 Hg ppm 0.01 | ME-MS41 In ppm 0.005 | ME-MS41 K % 0.01 | ME-MS41 La ppm 0.2 | ME-MS41 Li ppm 0.1 | ME-MS41 Mg % 0.01 | ME-MS41 Mn ppm 5 | ME-MS41 Mo ppm 0.05 | ME-MS41 Na % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012594 | | 0.62 | 17.6 | 5.79 | 6.00 | <0.05 | 0.06 | 0.37 | 0.069 | 0.09 | 2.3 | 0.8 | 0.04 | 68 | 5.28 | <0.01 |
| A2012595 | | 0.62 | 62.4 | 7.85 | 6.51 | 0.10 | 0.08 | 0.46 | 0.101 | 0.15 | 13.4 | 15.3 | 0.29 | 1950 | 6.26 | 0.01 |
| A2012596 | | 2.06 | 16.2 | 4.27 | 3.42 | <0.05 | <0.02 | 0.28 | 0.048 | 0.12 | 12.3 | 2.7 | 0.05 | 978 | 2.36 | 0.01 |
| A2012597 | | 0.70 | 60.3 | 8.57 | 6.00 | 0.05 | 0.04 | 0.94 | 0.052 | 0.11 | 11.1 | 8.8 | 0.57 | 2160 | 2.41 | 0.01 |
| A2012598 | | 1.27 | 25.4 | 4.81 | 0.74 | 0.05 | <0.02 | 0.33 | 0.041 | 0.17 | 14.2 | 0.4 | 0.06 | 3510 | 2.18 | 0.01 |
| A2012599 | | 1.28 | 17.6 | 4.15 | 0.65 | <0.05 | <0.02 | 0.36 | 0.020 | 0.11 | 4.9 | 1.5 | 0.07 | 127 | 1.05 | 0.01 |
| A2012600 | | 1.09 | 27.1 | 5.14 | 1.54 | 0.05 | <0.02 | 0.51 | 0.037 | 0.12 | 11.1 | 2.9 | 0.06 | 2140 | 2.50 | 0.01 |
| A2012602 | | 0.72 | 13.7 | 3.35 | 2.65 | 0.05 | 0.03 | 0.48 | 0.049 | 0.17 | 14.1 | 2.7 | 0.15 | 639 | 4.59 | 0.01 |
| A2012603 | | 0.72 | 37.3 | 6.94 | 5.24 | 0.05 | 0.04 | 0.48 | 0.060 | 0.11 | 14.7 | 7.7 | 0.38 | 1580 | 3.60 | 0.01 |
| A2012604 | | 0.80 | 15.4 | 9.04 | 22.0 | 0.20 | 0.08 | 0.04 | 0.087 | 0.13 | 18.0 | 72.8 | 5.06 | 2900 | 0.79 | 0.05 |
| A2012605 | | 1.63 | 16.3 | 7.20 | 11.30 | 0.13 | 0.10 | 0.03 | 0.041 | 0.27 | 21.1 | 23.7 | 1.55 | 2560 | 0.88 | 0.02 |
| A2012606 | | 1.99 | 17.7 | 6.95 | 12.30 | 0.07 | 0.04 | 0.03 | 0.048 | 0.21 | 15.8 | 28.8 | 1.64 | 2440 | 0.85 | 0.02 |
| A2012607 | | 2.29 | 20.3 | 6.39 | 9.47 | 0.08 | 0.04 | 0.04 | 0.055 | 0.22 | 17.4 | 14.8 | 0.66 | 1580 | 1.08 | 0.04 |
| A2012715 | | 1.86 | 35.7 | 6.76 | 14.20 | 0.08 | 0.07 | 0.12 | 0.085 | 0.27 | 22.0 | 29.4 | 1.69 | 2330 | 1.62 | 0.03 |
| A2012716 | | 1.61 | 31.3 | 5.69 | 10.45 | 0.08 | 0.13 | 0.05 | 0.063 | 0.21 | 22.9 | 23.0 | 0.91 | 2040 | 1.50 | 0.03 |
| A2012717 | | 1.20 | 45.9 | 6.85 | 13.50 | 0.17 | 0.10 | 0.10 | 0.077 | 0.22 | 22.1 | 21.5 | 1.32 | 2170 | 2.18 | 0.03 |
| A2012718 | | 1.16 | 39.6 | 6.41 | 10.65 | 0.13 | 0.15 | 0.10 | 0.062 | 0.24 | 19.3 | 21.1 | 1.40 | 1640 | 1.16 | 0.03 |
| A2012719 | | 1.45 | 35.8 | 5.10 | 9.43 | 0.07 | 0.06 | 0.14 | 0.064 | 0.16 | 20.4 | 17.8 | 0.81 | 2960 | 2.21 | 0.03 |
| A2012720 | | 0.92 | 39.6 | 5.11 | 8.92 | 0.06 | 0.03 | 0.31 | 0.062 | 0.11 | 15.7 | 20.0 | 0.49 | 1170 | 2.54 | 0.01 |
| A2012721 | | 1.10 | 32.4 | 5.17 | 9.11 | 0.06 | <0.02 | 0.29 | 0.055 | 0.13 | 18.7 | 13.3 | 0.58 | 1610 | 2.58 | 0.01 |
| A2012722 | | 0.93 | 25.6 | 3.74 | 8.52 | 0.05 | 0.02 | 0.13 | 0.052 | 0.14 | 12.2 | 13.2 | 0.75 | 840 | 2.14 | 0.01 |
| A2012723 | | 1.57 | 17.8 | 5.79 | 9.57 | 0.06 | 0.10 | 0.32 | 0.056 | 0.12 | 19.5 | 31.0 | 0.41 | 839 | 11.70 | 0.01 |
| A2012724 | | 1.10 | 26.8 | 8.56 | 14.60 | 0.12 | 0.18 | 0.44 | 0.091 | 0.10 | 47.6 | 17.6 | 0.18 | 2060 | 23.3 | 0.02 |
| A2012725 | | 1.29 | 20.1 | 3.99 | 18.85 | 0.11 | 1.15 | 0.22 | 0.102 | 0.08 | 44.8 | 18.6 | 0.25 | 311 | 8.32 | 0.04 |
| A2012726 | | 1.22 | 19.7 | 3.90 | 20.1 | 0.12 | 1.48 | 0.22 | 0.116 | 0.08 | 50.0 | 14.8 | 0.21 | 285 | 8.65 | 0.04 |
| A2012727 | | 1.32 | 48.8 | 5.97 | 5.51 | 0.07 | 0.02 | 0.81 | 0.051 | 0.19 | 18.1 | 8.8 | 0.45 | 1510 | 2.17 | 0.02 |
| A2012728 | | 2.07 | 54.1 | 4.41 | 5.31 | 0.07 | <0.02 | 0.83 | 0.040 | 0.21 | 26.9 | 8.7 | 0.37 | 3430 | 1.87 | 0.01 |
| A2012729 | | 0.68 | 68.7 | 6.28 | 7.14 | <0.05 | 0.02 | 0.12 | 0.047 | 0.12 | 8.0 | 10.3 | 0.38 | 1140 | 2.19 | 0.01 |
| A2012730 | | 0.76 | 64.7 | 8.27 | 9.08 | 0.06 | 0.04 | 0.41 | 0.065 | 0.10 | 18.0 | 6.2 | 0.25 | 1740 | 3.52 | 0.01 |
| A2012731 | | 1.71 | 52.2 | 3.81 | 5.74 | 0.09 | 0.03 | 0.32 | 0.034 | 0.13 | 35.3 | 32.3 | 0.34 | 1750 | 1.51 | 0.01 |
| A2012732 | | 1.42 | 25.6 | 5.17 | 11.35 | <0.05 | 0.02 | 0.12 | 0.055 | 0.12 | 9.1 | 8.2 | 0.29 | 1750 | 2.45 | 0.01 |
| A2012733 | | 0.85 | 42.5 | 6.15 | 7.22 | <0.05 | 0.02 | 0.26 | 0.057 | 0.08 | 9.3 | 10.8 | 0.30 | 948 | 2.60 | 0.01 |
| A2012734 | | 0.80 | 51.8 | 5.86 | 6.84 | 0.05 | <0.02 | 0.24 | 0.045 | 0.15 | 15.5 | 7.6 | 0.44 | 1520 | 2.01 | 0.01 |
| A2012735 | | 1.10 | 28.6 | 5.81 | 10.10 | <0.05 | 0.05 | 0.41 | 0.060 | 0.09 | 15.0 | 11.1 | 0.42 | 1210 | 2.82 | 0.01 |
| A2012736 | | 4.19 | 91.3 | 3.66 | 3.29 | 0.05 | 0.04 | 0.88 | 0.029 | 0.36 | 10.7 | 5.1 | 0.17 | 1750 | 1.22 | 0.02 |
| A2012737 | | 3.04 | 118.0 | 4.76 | 4.69 | 0.06 | 0.05 | 3.06 | 0.040 | 0.33 | 16.4 | 10.8 | 0.26 | 2440 | 1.12 | 0.03 |
| A2012738 | | 3.59 | 76.7 | 4.70 | 4.07 | 0.06 | 0.06 | 1.75 | 0.030 | 0.39 | 14.3 | 6.6 | 0.20 | 1730 | 1.95 | 0.06 |
| A2012739 | | 2.86 | 55.6 | 5.19 | 5.10 | 0.06 | 0.08 | 1.29 | 0.035 | 0.29 | 16.1 | 7.7 | 0.29 | 1480 | 1.41 | 0.02 |
| A2012740 | | 1.49 | 35.5 | 4.64 | 5.19 | 0.05 | 0.05 | 1.81 | 0.040 | 0.23 | 12.4 | 6.9 | 0.27 | 1420 | 1.29 | 0.03 |
| A2012741 | | 1.64 | 47.4 | 4.88 | 5.68 | 0.06 | 0.06 | 3.30 | 0.047 | 0.26 | 12.3 | 7.2 | 0.30 | 1410 | 0.88 | 0.03 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012594 | | 0.99 | 1.4 | 700 | 20.6 | 6.5 | 0.003 | 0.09 | 5.30 | 3.2 | 12.7 | 0.7 | 15.7 | <0.01 | 1.85 | 1.1 |
| A2012595 | | 2.24 | 4.8 | 1770 | 42.3 | 11.2 | 0.005 | 0.33 | 4.65 | 4.4 | 8.1 | 0.8 | 36.4 | 0.01 | 0.41 | 0.6 |
| A2012596 | | 1.23 | 1.2 | 1080 | 30.0 | 10.3 | <0.001 | 0.12 | 2.92 | 1.6 | 3.7 | 0.4 | 14.1 | <0.01 | 0.64 | 0.6 |
| A2012597 | | 0.43 | 5.8 | 2090 | 27.5 | 9.9 | 0.001 | 0.06 | 6.31 | 8.7 | 5.1 | 0.3 | 10.3 | <0.01 | 0.23 | 1.5 |
| A2012598 | | <0.05 | 4.2 | 1840 | 17.2 | 7.1 | 0.002 | 1.75 | 5.89 | 3.6 | 1.1 | 0.2 | 44.0 | <0.01 | 0.04 | 1.2 |
| A2012599 | | <0.05 | <0.2 | 1510 | 6.6 | 5.2 | <0.001 | 0.13 | 4.45 | 3.5 | 2.0 | 0.2 | 99.1 | <0.01 | 0.73 | 0.8 |
| A2012600 | | 0.17 | 2.2 | 1610 | 12.3 | 6.0 | 0.003 | 0.52 | 5.93 | 3.8 | 2.9 | 0.3 | 58.3 | <0.01 | 0.43 | 1.0 |
| A2012602 | | 0.21 | 0.7 | 1090 | 26.4 | 4.6 | 0.001 | 0.19 | 1.36 | 5.4 | 2.2 | 0.6 | 160.0 | <0.01 | 0.30 | 1.2 |
| A2012603 | | 1.12 | 4.5 | 1920 | 27.3 | 7.7 | 0.002 | 0.10 | 6.10 | 4.5 | 3.4 | 0.5 | 36.2 | <0.01 | 0.51 | 0.8 |
| A2012604 | | 0.20 | 2.1 | 1350 | 5.7 | 3.1 | <0.001 | 0.02 | 0.19 | 30.6 | 1.3 | 0.8 | 321 | 0.01 | 0.03 | 1.2 |
| A2012605 | | 0.64 | 1.4 | 1670 | 3.6 | 10.9 | <0.001 | 0.02 | 0.15 | 17.5 | 1.2 | 0.7 | 54.7 | 0.01 | 0.04 | 2.2 |
| A2012606 | | 1.75 | 1.6 | 1370 | 3.6 | 11.5 | <0.001 | 0.06 | 0.15 | 16.5 | 1.2 | 0.8 | 54.1 | <0.01 | 0.03 | 0.9 |
| A2012607 | | 0.76 | 1.4 | 1590 | 7.1 | 8.2 | 0.001 | 0.15 | 0.22 | 18.4 | 2.2 | 0.8 | 136.5 | <0.01 | 0.20 | 1.4 |
| A2012715 | | 2.10 | 4.6 | 1870 | 9.3 | 20.7 | 0.001 | 0.07 | 0.50 | 15.0 | 1.6 | 1.3 | 83.3 | 0.04 | 0.01 | 1.0 |
| A2012716 | | 1.49 | 4.0 | 2160 | 6.4 | 11.0 | <0.001 | 0.04 | 0.35 | 13.8 | 1.5 | 1.0 | 60.8 | 0.02 | <0.01 | 1.0 |
| A2012717 | | 1.52 | 7.9 | 2340 | 12.1 | 9.3 | 0.002 | 0.03 | 0.50 | 19.4 | 1.5 | 1.2 | 119.5 | 0.02 | 0.03 | 1.8 |
| A2012718 | | 0.57 | 5.4 | 2340 | 8.0 | 12.0 | <0.001 | 0.02 | 0.46 | 15.6 | 1.3 | 0.8 | 57.8 | 0.01 | 0.01 | 2.1 |
| A2012719 | | 2.33 | 6.7 | 2300 | 10.8 | 11.0 | <0.001 | 0.14 | 0.65 | 5.1 | 1.8 | 1.1 | 58.5 | 0.03 | 0.03 | 0.2 |
| A2012720 | | 3.54 | 6.0 | 1630 | 13.2 | 9.4 | 0.001 | 0.09 | 1.76 | 2.2 | 1.7 | 1.2 | 84.3 | 0.02 | 0.08 | <0.2 |
| A2012721 | | 1.83 | 5.9 | 1420 | 15.7 | 9.8 | <0.001 | 0.08 | 2.42 | 2.1 | 1.9 | 1.0 | 73.8 | 0.01 | 0.12 | <0.2 |
| A2012722 | | 1.16 | 4.4 | 1610 | 6.2 | 16.1 | <0.001 | 0.08 | 0.44 | 1.6 | 0.7 | 0.8 | 22.0 | <0.01 | 0.01 | <0.2 |
| A2012723 | | 3.27 | 4.7 | 1440 | 8.2 | 17.5 | 0.001 | 0.04 | 0.77 | 5.5 | 1.6 | 1.2 | 98.1 | 0.01 | 0.02 | 0.4 |
| A2012724 | | 23.8 | 7.2 | 910 | 16.0 | 10.0 | 0.002 | 0.07 | 2.29 | 3.6 | 3.1 | 5.0 | 71.5 | 0.12 | 0.10 | 1.1 |
| A2012725 | | 42.2 | 7.6 | 660 | 16.3 | 10.4 | 0.001 | 0.06 | 1.37 | 3.9 | 2.6 | 5.5 | 19.3 | 0.41 | 0.08 | 2.8 |
| A2012726 | | 48.1 | 7.4 | 590 | 17.5 | 10.2 | 0.001 | 0.06 | 1.57 | 3.7 | 2.9 | 6.5 | 18.8 | 0.60 | 0.10 | 3.4 |
| A2012727 | | 0.41 | 6.2 | 1770 | 13.4 | 7.4 | 0.001 | 0.07 | 2.03 | 9.1 | 2.4 | 0.5 | 63.0 | <0.01 | 0.13 | 1.9 |
| A2012728 | | 0.34 | 4.9 | 1420 | 18.4 | 9.3 | 0.002 | 0.03 | 1.03 | 7.5 | 1.5 | 0.5 | 58.1 | <0.01 | 0.05 | 0.8 |
| A2012729 | | 3.68 | 7.1 | 1470 | 37.3 | 15.4 | <0.001 | 0.04 | 2.15 | 3.1 | 0.9 | 0.8 | 11.4 | <0.01 | 0.18 | 0.6 |
| A2012730 | | 5.76 | 6.3 | 2230 | 44.4 | 13.8 | <0.001 | 0.07 | 3.37 | 2.3 | 2.2 | 1.2 | 11.7 | 0.05 | 0.26 | 0.3 |
| A2012731 | | 2.13 | 5.9 | 1610 | 16.3 | 12.7 | 0.001 | 0.08 | 1.67 | 2.1 | 1.8 | 0.6 | 139.5 | 0.01 | 0.09 | <0.2 |
| A2012732 | | 3.68 | 6.4 | 2520 | 20.1 | 17.9 | 0.001 | 0.08 | 1.12 | 0.8 | 0.7 | 2.0 | 13.0 | 0.01 | 0.05 | <0.2 |
| A2012733 | | 4.19 | 5.6 | 1430 | 22.5 | 8.6 | <0.001 | 0.08 | 2.73 | 1.5 | 1.2 | 0.9 | 11.5 | 0.03 | 0.15 | <0.2 |
| A2012734 | | 3.45 | 7.3 | 1290 | 23.2 | 10.2 | 0.001 | 0.04 | 2.51 | 3.4 | 1.7 | 0.9 | 27.2 | 0.02 | 0.13 | 0.4 |
| A2012735 | | 9.47 | 6.6 | 1450 | 21.4 | 12.4 | <0.001 | 0.06 | 1.60 | 1.8 | 1.3 | 1.9 | 11.4 | 0.04 | 0.14 | 0.2 |
| A2012736 | | 0.05 | 5.9 | 1750 | 12.0 | 15.1 | 0.003 | 0.19 | 1.50 | 6.9 | 0.5 | 0.5 | 126.5 | <0.01 | 0.02 | 4.9 |
| A2012737 | | <0.05 | 10.0 | 1750 | 13.2 | 12.9 | 0.001 | 0.21 | 1.27 | 10.3 | 0.7 | 0.5 | 93.3 | <0.01 | 0.04 | 5.0 |
| A2012738 | | <0.05 | 5.1 | 1970 | 15.1 | 15.1 | 0.002 | 0.37 | 2.10 | 7.5 | 0.8 | 0.5 | 187.0 | <0.01 | 0.02 | 5.0 |
| A2012739 | | <0.05 | 4.5 | 1870 | 10.2 | 11.5 | <0.001 | 0.11 | 2.91 | 8.0 | 0.6 | 0.6 | 116.0 | <0.01 | 0.01 | 3.1 |
| A2012740 | | 0.07 | 3.0 | 1540 | 12.9 | 6.8 | 0.001 | 0.20 | 1.86 | 8.5 | 0.8 | 0.6 | 123.5 | <0.01 | 0.03 | 2.3 |
| A2012741 | | <0.05 | 3.5 | 1740 | 10.4 | 7.2 | 0.001 | 0.34 | 1.44 | 11.2 | 0.9 | 0.6 | 116.5 | <0.01 | 0.03 | 2.9 |

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

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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2012594 | | 0.008 | 1.57 | 0.15 | 45 | 0.05 | 0.81 | 16 | 4.7 |
| A2012595 | | 0.006 | 1.26 | 1.40 | 68 | 0.13 | 15.75 | 107 | 3.0 |
| A2012596 | | <0.005 | 0.68 | 0.53 | 24 | 0.05 | 5.19 | 55 | 0.5 |
| A2012597 | | 0.012 | 0.72 | 0.52 | 90 | 0.11 | 8.35 | 113 | 1.8 |
| A2012598 | | <0.005 | 0.65 | 0.16 | 7 | 0.09 | 16.40 | 112 | <0.5 |
| A2012599 | | <0.005 | 0.48 | 0.05 | 8 | <0.05 | 5.99 | 35 | <0.5 |
| A2012600 | | <0.005 | 0.65 | 0.21 | 19 | 0.05 | 13.25 | 76 | <0.5 |
| A2012602 | | <0.005 | 0.23 | 0.42 | 27 | <0.05 | 15.05 | 41 | 1.2 |
| A2012603 | | 0.011 | 0.61 | 0.46 | 76 | 0.09 | 11.70 | 120 | 1.4 |
| A2012604 | | 0.115 | 0.07 | 0.95 | 214 | 0.06 | 21.1 | 204 | 2.6 |
| A2012605 | | 0.328 | 0.06 | 1.15 | 178 | 0.11 | 26.5 | 146 | 3.7 |
| A2012606 | | 0.243 | 0.07 | 1.15 | 164 | 0.10 | 20.1 | 141 | 1.9 |
| A2012607 | | 0.126 | 0.29 | 0.97 | 122 | 0.05 | 22.2 | 108 | 1.6 |
| A2012715 | | 0.273 | 0.11 | 0.95 | 177 | 0.14 | 27.7 | 93 | 3.6 |
| A2012716 | | 0.046 | 0.16 | 0.71 | 123 | 0.06 | 39.3 | 91 | 4.0 |
| A2012717 | | 0.291 | 0.16 | 1.09 | 183 | 0.16 | 33.8 | 133 | 4.7 |
| A2012718 | | 0.204 | 0.15 | 0.85 | 152 | 0.09 | 28.1 | 116 | 5.1 |
| A2012719 | | 0.035 | 0.39 | 0.85 | 103 | 0.10 | 25.6 | 85 | 2.3 |
| A2012720 | | 0.029 | 0.21 | 0.97 | 86 | 0.11 | 18.10 | 96 | 1.1 |
| A2012721 | | 0.029 | 0.27 | 0.86 | 89 | 0.11 | 18.40 | 93 | 0.7 |
| A2012722 | | 0.021 | 0.09 | 0.77 | 91 | 0.07 | 13.15 | 89 | 0.6 |
| A2012723 | | 0.022 | 0.26 | 3.58 | 98 | 0.10 | 25.6 | 119 | 3.5 |
| A2012724 | | 0.072 | 0.30 | 3.79 | 58 | 0.41 | 41.8 | 145 | 15.3 |
| A2012725 | | 0.108 | 0.19 | 3.26 | 53 | 0.59 | 37.3 | 117 | 87.9 |
| A2012726 | | 0.107 | 0.18 | 3.48 | 48 | 0.64 | 41.4 | 114 | 113.5 |
| A2012727 | | 0.027 | 0.27 | 0.77 | 91 | 0.05 | 19.15 | 103 | 0.8 |
| A2012728 | | 0.017 | 0.33 | 0.90 | 78 | 0.10 | 20.5 | 72 | <0.5 |
| A2012729 | | 0.021 | 0.24 | 0.49 | 79 | 0.17 | 4.74 | 132 | 0.9 |
| A2012730 | | 0.035 | 0.26 | 1.26 | 83 | 0.23 | 16.00 | 89 | 2.4 |
| A2012731 | | 0.013 | 0.16 | 2.91 | 69 | 0.15 | 39.4 | 84 | 0.6 |
| A2012732 | | 0.038 | 0.14 | 0.89 | 86 | 0.13 | 5.46 | 110 | 1.1 |
| A2012733 | | 0.030 | 0.20 | 1.06 | 78 | 0.24 | 5.64 | 81 | 1.0 |
| A2012734 | | 0.031 | 0.24 | 1.00 | 81 | 0.20 | 10.40 | 92 | 0.8 |
| A2012735 | | 0.028 | 0.22 | 1.05 | 80 | 0.27 | 7.72 | 83 | 2.2 |
| A2012736 | | 0.015 | 0.53 | 1.65 | 47 | 0.08 | 14.05 | 47 | 1.7 |
| A2012737 | | <0.005 | 0.58 | 1.79 | 55 | <0.05 | 19.55 | 86 | 1.2 |
| A2012738 | | 0.012 | 0.87 | 1.51 | 64 | 0.06 | 16.80 | 64 | 2.4 |
| A2012739 | | 0.020 | 0.46 | 1.05 | 95 | 0.05 | 18.95 | 96 | 2.8 |
| A2012740 | | 0.013 | 0.81 | 0.64 | 71 | <0.05 | 17.05 | 75 | 1.9 |
| A2012741 | | 0.008 | 0.55 | 0.75 | 72 | <0.05 | 19.85 | 78 | 1.4 |

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

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302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-ICP21 Au ppm 0.001 | ME-MS41 Ag ppm 0.01 | ME-MS41 Al % 0.01 | ME-MS41 As ppm 0.1 | ME-MS41 Au ppm 0.2 | ME-MS41 B ppm 10 | ME-MS41 Ba ppm 10 | ME-MS41 Be ppm 0.05 | ME-MS41 Bi ppm 0.01 | ME-MS41 Ca % 0.01 | ME-MS41 Cd ppm 0.01 | ME-MS41 Ce ppm 0.02 | ME-MS41 Co ppm 0.1 | ME-MS41 Cr ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012742 | | 0.74 | 0.002 | 0.10 | 2.00 | 5.9 | <0.2 | <10 | 340 | 0.85 | 0.05 | 1.29 | 0.19 | 29.3 | 20.6 | 1 |
| A2012743 | | 0.76 | 0.001 | 0.13 | 1.67 | 5.6 | <0.2 | <10 | 380 | 0.74 | 0.06 | 1.16 | 0.22 | 37.1 | 22.8 | <1 |
| A2012744 | | 0.90 | <0.001 | 0.11 | 1.67 | 4.3 | <0.2 | <10 | 790 | 0.69 | 0.05 | 1.53 | 0.17 | 36.1 | 14.7 | 1 |
| A2012745 | | 0.78 | <0.001 | 0.11 | 1.74 | 5.6 | <0.2 | <10 | 880 | 0.64 | 0.03 | 1.99 | 0.23 | 36.9 | 13.3 | 1 |
| A2012746 | | 0.82 | 0.001 | 0.11 | 1.76 | 5.3 | <0.2 | <10 | 900 | 0.66 | 0.03 | 2.02 | 0.27 | 37.5 | 13.2 | 1 |
| A2012747 | | 0.72 | 0.001 | 0.11 | 1.67 | 19.2 | <0.2 | <10 | 530 | 0.80 | 0.05 | 0.82 | 0.24 | 34.3 | 21.4 | 1 |
| A2012748 | | 0.80 | 0.001 | 0.19 | 2.37 | 9.5 | <0.2 | <10 | 450 | 0.79 | 0.04 | 1.34 | 0.44 | 40.8 | 17.0 | 1 |
| A2012749 | | 0.76 | 0.001 | 0.23 | 2.40 | 9.3 | <0.2 | <10 | 550 | 0.87 | 0.03 | 1.60 | 0.31 | 45.7 | 14.2 | 1 |
| A2012750 | | 0.60 | 0.135 | 0.34 | 3.20 | 133.0 | 0.3 | <10 | 230 | 1.30 | 0.28 | 0.07 | 0.19 | 59.3 | 17.6 | 8 |
| A2018001 | | 0.80 | 0.001 | 0.09 | 2.16 | 3.3 | <0.2 | <10 | 880 | 0.72 | 0.04 | 1.43 | 0.20 | 37.2 | 26.1 | 1 |
| A2018002 | | 0.72 | 0.002 | 0.10 | 3.31 | 4.3 | <0.2 | <10 | 670 | 0.90 | 0.02 | 1.82 | 0.28 | 54.9 | 46.5 | <1 |
| A2018003 | | 0.70 | 0.001 | 0.06 | 3.05 | 6.4 | <0.2 | <10 | 1120 | 1.11 | 0.12 | 0.50 | 0.18 | 57.8 | 17.5 | 2 |
| A2018004 | | 0.68 | <0.001 | 0.09 | 3.08 | 2.7 | <0.2 | <10 | 1440 | 0.87 | 0.03 | 0.76 | 0.09 | 42.8 | 13.2 | <1 |
| A2018005 | | 0.66 | 0.008 | 0.25 | 2.73 | 4.7 | <0.2 | <10 | 1500 | 0.85 | 0.06 | 0.84 | 0.26 | 32.8 | 20.7 | 1 |
| A2018006 | | 0.66 | 0.027 | 0.15 | 1.92 | 20.0 | <0.2 | <10 | 1310 | 0.74 | 0.17 | 0.80 | 0.16 | 19.40 | 11.8 | 2 |
| A2018007 | | 0.68 | <0.001 | 0.06 | 1.18 | 3.9 | <0.2 | <10 | 1290 | 0.60 | 0.08 | 1.14 | 0.16 | 22.2 | 11.1 | 1 |
| A2018008 | | 0.66 | 0.003 | 0.14 | 2.21 | 9.7 | <0.2 | 10 | 320 | 0.66 | 0.03 | 1.06 | 0.24 | 35.2 | 22.3 | 1 |
| A2018009 | | 0.66 | 0.005 | 0.21 | 2.60 | 17.4 | <0.2 | <10 | 820 | 0.90 | 0.09 | 0.86 | 0.31 | 39.3 | 28.2 | 2 |
| A2018010 | | 0.76 | 0.016 | 0.24 | 2.67 | 24.9 | <0.2 | <10 | 600 | 0.77 | 0.09 | 0.85 | 0.59 | 50.8 | 28.1 | 3 |
| A2018011 | | 0.62 | 0.002 | 0.16 | 1.16 | 9.5 | <0.2 | 10 | 720 | 0.96 | 0.02 | 1.41 | 0.34 | 46.1 | 8.5 | 1 |
| A2018012 | | 0.56 | 0.013 | 0.23 | 3.19 | 21.2 | <0.2 | <10 | 210 | 1.25 | 0.11 | 0.19 | 0.13 | 40.9 | 12.6 | 11 |
| A2018013 | | 0.54 | 0.026 | 0.21 | 2.87 | 35.1 | <0.2 | <10 | 320 | 0.82 | 0.16 | 0.25 | 0.14 | 33.4 | 14.2 | 10 |
| A2018014 | | 0.38 | 0.004 | 0.19 | 2.06 | 4.4 | <0.2 | <10 | 740 | 0.51 | 0.03 | 0.65 | 0.22 | 29.6 | 14.5 | 3 |
| A2018015 | | 0.54 | 0.013 | 0.18 | 2.11 | 4.9 | <0.2 | <10 | 740 | 0.53 | 0.04 | 0.66 | 0.23 | 30.9 | 15.4 | 3 |
| A2018016 | | 0.62 | 0.030 | 0.21 | 3.07 | 19.0 | <0.2 | <10 | 340 | 0.95 | 0.15 | 0.20 | 0.14 | 47.9 | 13.4 | 8 |
| A2018017 | | 0.42 | 0.018 | 0.15 | 3.14 | 40.0 | <0.2 | <10 | 150 | 0.93 | 0.15 | 0.10 | 0.14 | 53.1 | 13.9 | 10 |
| A2018018 | | 0.72 | 0.030 | 0.57 | 3.57 | 59.9 | <0.2 | <10 | 220 | 1.86 | 0.09 | 0.74 | 0.19 | 59.3 | 57.7 | 60 |
| A2018019 | | 0.58 | 0.001 | 0.33 | 5.62 | 11.8 | <0.2 | <10 | 250 | 1.80 | 0.10 | 0.39 | 0.14 | 38.1 | 28.8 | 16 |
| A2018020 | | 0.78 | 0.100 | 2.82 | 0.24 | 438 | <0.2 | 10 | 100 | 0.16 | 0.05 | 0.11 | 0.23 | 10.20 | 4.2 | 1 |
| A2018021 | | 0.62 | 0.012 | 1.17 | 0.50 | 75.3 | <0.2 | 10 | 480 | 1.06 | 0.06 | 1.04 | 0.19 | 26.2 | 37.4 | 5 |
| A2018022 | | 0.56 | 0.025 | 0.80 | 2.21 | 155.5 | <0.2 | <10 | 140 | 1.26 | 0.15 | 0.18 | 0.20 | 27.6 | 23.8 | 19 |
| A2018023 | | 0.48 | 0.033 | 1.14 | 1.77 | 109.0 | <0.2 | 10 | 280 | 1.87 | 0.15 | 0.69 | 0.24 | 70.8 | 35.4 | 23 |
| A2018024 | | 0.48 | 0.008 | 0.57 | 2.10 | 77.5 | <0.2 | <10 | 270 | 1.44 | 0.12 | 0.70 | 0.22 | 42.0 | 34.9 | 31 |
| A2018025 | | 0.58 | 0.032 | 1.57 | 1.38 | 83.7 | <0.2 | <10 | 260 | 1.26 | 0.14 | 0.64 | 0.29 | 44.3 | 37.2 | 17 |
| A2018026 | | 0.44 | 0.040 | 0.48 | 2.41 | 56.3 | <0.2 | <10 | 390 | 1.40 | 0.23 | 0.55 | 0.51 | 30.7 | 37.2 | 19 |
| A2018027 | | 0.42 | 0.008 | 0.89 | 2.08 | 84.3 | <0.2 | 10 | 330 | 1.23 | 0.27 | 0.90 | 1.98 | 23.6 | 33.0 | 13 |
| A2018028 | | 0.58 | 0.084 | 3.02 | 1.08 | 320 | <0.2 | <10 | 230 | 0.58 | 0.15 | 0.20 | 0.45 | 15.45 | 17.3 | 7 |
| A2018029 | | 0.42 | 0.029 | 1.48 | 1.88 | 101.5 | <0.2 | <10 | 300 | 0.99 | 0.32 | 0.64 | 0.45 | 33.6 | 29.3 | 18 |
| A2018030 | | 0.52 | 0.137 | 2.75 | 1.85 | 259 | <0.2 | <10 | 360 | 1.52 | 1.84 | 0.28 | 1.56 | 56.0 | 72.1 | 8 |
| A2018031 | | 0.58 | 0.470 | 8.23 | 1.15 | 750 | 0.4 | <10 | 640 | 1.72 | 5.12 | 0.74 | 0.68 | 37.9 | 79.6 | 9 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Cs<br>ppm<br>0.05 | ME-MS41<br>Cu<br>ppm<br>0.2 | ME-MS41<br>Fe<br>%<br>0.01 | ME-MS41<br>Ga<br>ppm<br>0.05 | ME-MS41<br>Ge<br>ppm<br>0.05 | ME-MS41<br>Hf<br>ppm<br>0.02 | ME-MS41<br>Hg<br>ppm<br>0.01 | ME-MS41<br>In<br>ppm<br>0.005 | ME-MS41<br>K<br>%<br>0.01 | ME-MS41<br>La<br>ppm<br>0.2 | ME-MS41<br>Li<br>ppm<br>0.1 | ME-MS41<br>Mg<br>%<br>0.01 | ME-MS41<br>Mn<br>ppm<br>5 | ME-MS41<br>Mo<br>ppm<br>0.05 | ME-MS41<br>Na<br>%<br>0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012742 | | 1.98 | 34.1 | 4.54 | 5.80 | 0.05 | 0.06 | 1.76 | 0.046 | 0.28 | 13.2 | 6.4 | 0.35 | 1280 | 0.62 | 0.02 |
| A2012743 | | 1.69 | 18.7 | 4.30 | 5.52 | 0.06 | 0.07 | 1.15 | 0.039 | 0.25 | 17.5 | 5.1 | 0.33 | 1850 | 0.73 | 0.02 |
| A2012744 | | 1.57 | 14.3 | 3.82 | 5.85 | 0.06 | 0.08 | 2.08 | 0.039 | 0.23 | 17.0 | 5.8 | 0.41 | 1220 | 0.57 | 0.03 |
| A2012745 | | 1.12 | 16.0 | 4.09 | 7.21 | 0.06 | 0.12 | 0.64 | 0.041 | 0.25 | 18.7 | 9.3 | 0.81 | 1310 | 0.57 | 0.03 |
| A2012746 | | 1.17 | 16.0 | 4.05 | 7.10 | 0.06 | 0.13 | 0.57 | 0.041 | 0.25 | 18.5 | 9.4 | 0.83 | 1320 | 0.52 | 0.03 |
| A2012747 | | 1.57 | 22.8 | 4.07 | 5.42 | 0.06 | 0.05 | 1.27 | 0.041 | 0.23 | 15.9 | 6.1 | 0.35 | 1570 | 0.86 | 0.03 |
| A2012748 | | 1.45 | 15.4 | 5.04 | 9.81 | 0.08 | 0.13 | 0.39 | 0.043 | 0.20 | 19.6 | 9.0 | 0.63 | 2220 | 1.18 | 0.04 |
| A2012749 | | 1.17 | 14.9 | 4.13 | 10.80 | 0.09 | 0.12 | 0.42 | 0.041 | 0.24 | 22.6 | 8.9 | 0.64 | 1780 | 1.15 | 0.03 |
| A2012750 | | 1.51 | 27.2 | 6.28 | 11.30 | 0.06 | 0.03 | 0.21 | 0.071 | 0.13 | 23.3 | 9.1 | 0.38 | 3760 | 2.56 | 0.02 |
| A2018001 | | 2.59 | 24.1 | 5.78 | 10.30 | 0.11 | 0.34 | 0.90 | 0.062 | 0.23 | 17.7 | 12.1 | 0.98 | 1220 | 0.65 | 0.03 |
| A2018002 | | 1.80 | 18.4 | 7.18 | 12.25 | 0.10 | 0.14 | 0.40 | 0.062 | 0.21 | 21.6 | 12.5 | 0.71 | 4090 | 1.10 | 0.04 |
| A2018003 | | 2.69 | 19.8 | 4.63 | 9.28 | 0.07 | 0.08 | 0.48 | 0.051 | 0.18 | 15.0 | 10.5 | 0.37 | 1290 | 1.17 | 0.02 |
| A2018004 | | 2.30 | 11.3 | 4.64 | 10.20 | 0.08 | 0.10 | 0.84 | 0.051 | 0.15 | 21.2 | 17.2 | 0.55 | 1810 | 0.26 | 0.02 |
| A2018005 | | 1.85 | 21.5 | 6.08 | 10.55 | 0.06 | 0.09 | 0.07 | 0.060 | 0.10 | 13.7 | 15.8 | 0.71 | 1950 | 0.61 | 0.03 |
| A2018006 | | 1.69 | 18.8 | 3.39 | 6.13 | 0.06 | 0.03 | 0.32 | 0.040 | 0.15 | 9.8 | 5.5 | 0.20 | 694 | 1.25 | 0.01 |
| A2018007 | | 2.02 | 13.7 | 1.88 | 3.48 | 0.07 | 0.12 | 0.08 | 0.040 | 0.21 | 9.4 | 1.6 | 0.12 | 275 | 0.40 | 0.02 |
| A2018008 | | 1.10 | 39.2 | 6.37 | 9.01 | 0.12 | 0.22 | 0.06 | 0.110 | 0.27 | 17.1 | 21.2 | 1.73 | 2370 | 1.15 | 0.01 |
| A2018009 | | 2.09 | 43.6 | 6.21 | 9.41 | 0.08 | 0.04 | 0.23 | 0.083 | 0.18 | 19.3 | 20.0 | 0.87 | 2700 | 1.73 | 0.01 |
| A2018010 | | 1.36 | 46.2 | 7.34 | 12.30 | 0.10 | 0.05 | 0.32 | 0.072 | 0.14 | 23.3 | 22.3 | 1.30 | 3060 | 2.42 | 0.02 |
| A2018011 | | 2.19 | 37.2 | 3.65 | 3.89 | 0.08 | 0.05 | 0.21 | 0.045 | 0.23 | 22.6 | 4.2 | 0.19 | 4480 | 0.69 | <0.01 |
| A2018012 | | 1.51 | 25.4 | 4.77 | 12.10 | 0.06 | 0.22 | 0.18 | 0.070 | 0.07 | 17.8 | 10.0 | 0.42 | 1130 | 2.09 | 0.03 |
| A2018013 | | 0.87 | 27.5 | 5.03 | 9.54 | <0.05 | 0.04 | 0.16 | 0.052 | 0.08 | 14.0 | 9.7 | 0.61 | 1450 | 1.48 | 0.01 |
| A2018014 | | 0.68 | 28.7 | 4.20 | 6.81 | 0.06 | 0.05 | 0.19 | 0.042 | 0.15 | 14.0 | 9.0 | 0.98 | 1900 | 0.57 | 0.03 |
| A2018015 | | 0.74 | 29.9 | 4.28 | 7.08 | 0.06 | 0.05 | 0.21 | 0.045 | 0.16 | 14.7 | 9.5 | 1.01 | 1950 | 0.63 | 0.03 |
| A2018016 | | 1.24 | 29.2 | 4.32 | 10.50 | 0.07 | 0.05 | 0.18 | 0.059 | 0.11 | 19.8 | 12.3 | 0.72 | 1450 | 1.12 | 0.01 |
| A2018017 | | 0.91 | 22.7 | 5.21 | 10.00 | <0.05 | 0.05 | 0.38 | 0.067 | 0.08 | 21.0 | 8.9 | 0.34 | 1600 | 2.48 | 0.01 |
| A2018018 | | 5.84 | 290 | 13.20 | 19.35 | 0.25 | 0.09 | 0.09 | 0.103 | 0.25 | 27.2 | 22.2 | 2.62 | 3510 | 1.55 | 0.01 |
| A2018019 | | 20.8 | 138.0 | 7.30 | 18.25 | 0.11 | 0.17 | 0.05 | 0.065 | 0.17 | 17.9 | 44.5 | 1.65 | 1410 | 1.83 | 0.18 |
| A2018020 | | 2.27 | 27.7 | 4.46 | 0.80 | <0.05 | <0.02 | 0.07 | 0.032 | 0.23 | 5.5 | 0.7 | 0.02 | 105 | 2.73 | <0.01 |
| A2018021 | | 3.79 | 211 | 8.42 | 1.51 | 0.05 | <0.02 | 0.09 | 0.079 | 0.12 | 13.0 | 1.6 | 0.24 | 3080 | 0.72 | <0.01 |
| A2018022 | | 2.53 | 126.0 | 8.06 | 10.95 | <0.05 | <0.02 | 0.07 | 0.082 | 0.11 | 11.7 | 8.7 | 0.29 | 1890 | 3.61 | 0.01 |
| A2018023 | | 2.79 | 206 | 8.48 | 8.24 | 0.10 | 0.09 | 0.21 | 0.090 | 0.10 | 37.5 | 8.1 | 0.56 | 2280 | 2.92 | 0.01 |
| A2018024 | | 5.05 | 183.0 | 9.04 | 9.07 | 0.07 | 0.05 | 0.07 | 0.089 | 0.11 | 20.7 | 12.1 | 1.03 | 2890 | 2.42 | 0.01 |
| A2018025 | | 3.21 | 209 | 9.81 | 5.83 | 0.08 | 0.05 | 0.11 | 0.084 | 0.14 | 24.0 | 6.0 | 0.56 | 3690 | 3.69 | 0.01 |
| A2018026 | | 5.12 | 94.7 | 8.64 | 16.20 | <0.05 | 0.02 | 0.05 | 0.089 | 0.16 | 13.9 | 16.1 | 0.63 | 5060 | 3.52 | 0.01 |
| A2018027 | | 5.07 | 126.5 | 8.42 | 11.50 | <0.05 | 0.02 | 0.06 | 0.084 | 0.20 | 11.5 | 10.4 | 0.50 | 3010 | 2.66 | 0.01 |
| A2018028 | | 1.98 | 128.5 | 8.28 | 6.57 | <0.05 | 0.02 | 0.07 | 0.059 | 0.16 | 8.5 | 2.2 | 0.11 | 1660 | 2.79 | 0.01 |
| A2018029 | | 2.50 | 142.5 | 7.97 | 9.96 | <0.05 | 0.02 | 0.11 | 0.078 | 0.15 | 14.1 | 9.9 | 0.48 | 2930 | 3.41 | 0.01 |
| A2018030 | | 4.25 | 539 | 14.25 | 5.43 | 0.09 | 0.04 | 0.12 | 0.175 | 0.12 | 22.4 | 7.5 | 0.37 | 2730 | 3.66 | 0.01 |
| A2018031 | | 3.43 | 1190 | 12.80 | 3.08 | 0.09 | 0.08 | 0.40 | 0.603 | 0.14 | 25.4 | 3.0 | 0.24 | 2510 | 3.63 | 0.01 |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2012742 | | <0.05 | 2.2 | 1830 | 8.1 | 7.6 | 0.001 | 0.26 | 0.30 | 11.5 | 0.7 | 0.6 | 154.5 | <0.01 | 0.01 | 2.4 |
| A2012743 | | <0.05 | 1.2 | 1840 | 9.2 | 6.5 | <0.001 | 0.18 | 0.36 | 10.1 | 0.7 | 0.6 | 130.0 | <0.01 | 0.01 | 2.0 |
| A2012744 | | <0.05 | 1.1 | 1740 | 7.6 | 6.7 | <0.001 | 0.13 | 0.49 | 9.2 | 0.6 | 0.6 | 145.0 | <0.01 | 0.01 | 1.9 |
| A2012745 | | 0.06 | 1.2 | 1760 | 6.7 | 7.4 | <0.001 | 0.06 | 0.54 | 8.5 | 0.6 | 0.7 | 117.0 | <0.01 | 0.01 | 1.7 |
| A2012746 | | 0.06 | 1.2 | 1760 | 7.0 | 7.6 | <0.001 | 0.06 | 0.57 | 8.5 | 0.6 | 0.7 | 119.0 | <0.01 | <0.01 | 1.7 |
| A2012747 | | 0.08 | 1.7 | 1810 | 9.4 | 6.5 | 0.001 | 0.15 | 1.26 | 8.6 | 0.8 | 0.6 | 115.5 | <0.01 | 0.01 | 2.1 |
| A2012748 | | 0.51 | 1.9 | 1820 | 11.4 | 7.2 | 0.001 | 0.04 | 3.46 | 10.5 | 0.7 | 0.8 | 116.0 | 0.01 | 0.01 | 1.7 |
| A2012749 | | 0.78 | 1.8 | 1770 | 12.6 | 8.1 | <0.001 | 0.02 | 4.56 | 9.9 | 0.8 | 0.8 | 120.5 | 0.01 | 0.01 | 1.6 |
| A2012750 | | 5.95 | 7.8 | 1490 | 17.9 | 14.0 | 0.001 | 0.08 | 3.10 | 3.5 | 1.4 | 2.2 | 19.6 | 0.08 | 0.08 | 0.4 |
| A2018001 | | 0.38 | 1.5 | 1590 | 11.1 | 7.2 | 0.001 | 0.04 | 0.27 | 17.9 | 1.0 | 0.9 | 136.0 | 0.01 | 0.01 | 2.1 |
| A2018002 | | 0.23 | 1.1 | 1760 | 11.6 | 4.8 | 0.001 | 0.31 | 4.25 | 19.3 | 1.0 | 0.6 | 259 | <0.01 | 0.01 | 2.0 |
| A2018003 | | 2.42 | 2.8 | 1760 | 8.8 | 8.1 | 0.001 | 0.06 | 0.58 | 6.0 | 1.4 | 1.1 | 82.9 | 0.04 | 0.06 | 0.4 |
| A2018004 | | 0.20 | 0.8 | 1390 | 4.8 | 7.9 | 0.001 | 0.01 | 0.10 | 16.6 | 1.3 | 0.8 | 79.4 | <0.01 | 0.01 | 1.4 |
| A2018005 | | 0.12 | 2.0 | 1210 | 6.6 | 4.9 | <0.001 | <0.01 | 0.19 | 28.1 | 1.1 | 0.4 | 90.1 | <0.01 | 0.02 | 1.3 |
| A2018006 | | 0.43 | 2.1 | 1390 | 8.6 | 6.5 | 0.001 | 0.03 | 0.85 | 8.1 | 1.3 | 0.8 | 112.0 | <0.01 | 0.14 | 1.5 |
| A2018007 | | 0.10 | 0.6 | 2170 | 8.1 | 6.5 | <0.001 | 0.02 | 0.08 | 11.5 | 1.3 | 0.4 | 149.5 | <0.01 | 0.02 | 1.7 |
| A2018008 | | 0.29 | 3.5 | 2060 | 5.7 | 13.3 | 0.002 | 0.06 | 0.39 | 15.8 | 1.6 | 1.0 | 65.2 | 0.01 | 0.03 | 1.9 |
| A2018009 | | 0.53 | 4.7 | 2040 | 9.8 | 10.0 | 0.001 | 0.02 | 0.52 | 15.5 | 2.0 | 0.7 | 42.4 | 0.01 | 0.02 | 1.4 |
| A2018010 | | 1.20 | 5.9 | 2420 | 11.3 | 8.1 | <0.001 | 0.07 | 0.94 | 14.6 | 2.7 | 0.9 | 46.8 | 0.03 | 0.03 | 1.0 |
| A2018011 | | <0.05 | 2.2 | 2130 | 3.8 | 8.6 | 0.001 | 0.01 | 0.87 | 15.7 | 2.0 | 0.5 | 34.2 | <0.01 | 0.01 | 1.8 |
| A2018012 | | 13.75 | 6.1 | 1260 | 7.7 | 9.4 | <0.001 | 0.07 | 1.00 | 4.8 | 1.3 | 2.1 | 15.1 | 0.29 | 0.04 | 0.7 |
| A2018013 | | 4.08 | 5.7 | 1120 | 10.3 | 7.0 | 0.001 | 0.06 | 1.47 | 3.9 | 1.2 | 1.0 | 22.7 | 0.08 | 0.07 | 0.3 |
| A2018014 | | 0.11 | 3.5 | 1400 | 3.9 | 5.0 | <0.001 | 0.01 | 0.22 | 11.2 | 1.0 | 0.5 | 29.9 | <0.01 | 0.01 | 1.4 |
| A2018015 | | 0.10 | 3.7 | 1420 | 4.0 | 5.3 | <0.001 | 0.01 | 0.25 | 11.8 | 1.0 | 0.5 | 30.7 | <0.01 | 0.01 | 1.5 |
| A2018016 | | 2.45 | 6.0 | 1480 | 9.2 | 10.9 | <0.001 | 0.04 | 0.65 | 4.8 | 1.4 | 1.3 | 16.3 | 0.03 | 0.05 | 0.3 |
| A2018017 | | 5.99 | 4.7 | 1370 | 11.5 | 9.8 | <0.001 | 0.06 | 1.24 | 3.0 | 1.5 | 1.6 | 9.1 | 0.15 | 0.05 | 0.2 |
| A2018018 | | 0.53 | 38.4 | 2780 | 25.1 | 15.9 | 0.001 | 0.02 | 1.63 | 56.3 | 2.8 | 0.8 | 52.5 | <0.01 | 0.08 | 1.2 |
| A2018019 | | 6.09 | 13.1 | 2000 | 16.6 | 10.7 | 0.001 | 0.07 | 0.74 | 7.7 | 1.5 | 1.4 | 31.3 | 0.07 | 0.03 | 0.3 |
| A2018020 | | 0.08 | 3.4 | 600 | 52.3 | 8.3 | <0.001 | 0.39 | 4.84 | 2.0 | 0.8 | <0.2 | 97.9 | <0.01 | 0.04 | 0.5 |
| A2018021 | | 0.50 | 10.3 | 2270 | 26.8 | 5.6 | <0.001 | 0.04 | 1.78 | 17.7 | 1.3 | 0.2 | 80.9 | 0.01 | 0.04 | 0.8 |
| A2018022 | | 3.66 | 14.9 | 1890 | 36.1 | 11.3 | <0.001 | 0.04 | 2.74 | 3.2 | 1.4 | 2.0 | 18.1 | 0.02 | 0.11 | <0.2 |
| A2018023 | | 6.32 | 29.4 | 1570 | 25.5 | 10.1 | <0.001 | 0.06 | 12.05 | 27.6 | 3.0 | 1.7 | 39.2 | 0.03 | 0.16 | 1.5 |
| A2018024 | | 1.90 | 24.3 | 2530 | 21.5 | 14.3 | 0.001 | 0.05 | 5.96 | 16.1 | 1.8 | 0.9 | 36.8 | 0.01 | 0.11 | 0.4 |
| A2018025 | | 1.78 | 23.6 | 1940 | 24.1 | 8.7 | <0.001 | 0.12 | 7.84 | 21.3 | 2.7 | 0.6 | 39.2 | 0.02 | 0.29 | 1.1 |
| A2018026 | | 7.88 | 14.1 | 2920 | 33.7 | 26.7 | <0.001 | 0.04 | 2.98 | 8.2 | 1.2 | 2.8 | 32.1 | 0.02 | 0.45 | 0.4 |
| A2018027 | | 3.99 | 12.0 | 2500 | 55.5 | 22.5 | <0.001 | 0.06 | 9.45 | 7.1 | 1.4 | 1.2 | 49.6 | 0.01 | 0.49 | 0.2 |
| A2018028 | | 3.43 | 6.9 | 3690 | 142.0 | 16.9 | <0.001 | 0.17 | 15.65 | 3.0 | 1.3 | 1.1 | 54.9 | 0.01 | 0.39 | 0.2 |
| A2018029 | | 4.71 | 13.4 | 3470 | 63.0 | 13.8 | 0.001 | 0.08 | 6.10 | 7.6 | 2.0 | 1.4 | 36.4 | 0.02 | 0.29 | 0.2 |
| A2018030 | | 1.84 | 12.3 | 2330 | 45.8 | 11.3 | <0.001 | 0.12 | 9.56 | 13.0 | 3.6 | 0.5 | 28.0 | 0.03 | 1.35 | 1.0 |
| A2018031 | | 0.60 | 12.9 | 2450 | 27.7 | 10.8 | <0.001 | 0.10 | 21.9 | 12.7 | 4.7 | 0.2 | 43.8 | 0.01 | 4.69 | 0.9 |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2012742 | | 0.009 | 0.18 | 0.57 | 73 | <0.05 | 19.15 | 77 | 1.4 |
| A2012743 | | 0.013 | 0.16 | 0.48 | 63 | <0.05 | 17.80 | 72 | 1.8 |
| A2012744 | | 0.017 | 0.12 | 0.55 | 64 | <0.05 | 17.90 | 78 | 2.6 |
| A2012745 | | 0.038 | 0.13 | 0.64 | 84 | <0.05 | 16.70 | 81 | 4.3 |
| A2012746 | | 0.037 | 0.13 | 0.66 | 83 | <0.05 | 16.75 | 81 | 4.2 |
| A2012747 | | 0.013 | 0.47 | 0.65 | 52 | <0.05 | 18.70 | 66 | 1.6 |
| A2012748 | | 0.137 | 0.34 | 0.97 | 104 | 0.08 | 20.3 | 93 | 5.4 |
| A2012749 | | 0.145 | 0.28 | 0.83 | 85 | 0.11 | 20.9 | 79 | 5.4 |
| A2012750 | | 0.044 | 0.33 | 1.03 | 73 | 0.20 | 19.70 | 113 | 2.5 |
| A2018001 | | 0.353 | 0.10 | 1.18 | 136 | 0.12 | 16.95 | 112 | 16.8 |
| A2018002 | | 0.072 | 0.65 | 0.86 | 88 | <0.05 | 21.4 | 64 | 4.3 |
| A2018003 | | 0.020 | 0.25 | 0.77 | 81 | 0.08 | 19.65 | 63 | 2.3 |
| A2018004 | | 0.006 | 0.19 | 0.70 | 80 | <0.05 | 24.6 | 64 | 2.6 |
| A2018005 | | 0.011 | 0.07 | 0.52 | 87 | <0.05 | 21.8 | 89 | 2.4 |
| A2018006 | | 0.013 | 0.65 | 0.80 | 51 | 0.06 | 18.10 | 46 | 1.6 |
| A2018007 | | 0.023 | 0.21 | 0.80 | 29 | <0.05 | 29.2 | 26 | 3.5 |
| A2018008 | | 0.234 | 0.07 | 0.67 | 146 | 0.11 | 28.3 | 138 | 8.3 |
| A2018009 | | 0.043 | 0.32 | 0.62 | 123 | 0.07 | 35.7 | 94 | 0.9 |
| A2018010 | | 0.117 | 1.16 | 0.77 | 137 | 0.12 | 33.5 | 104 | 1.7 |
| A2018011 | | 0.005 | 0.13 | 0.40 | 71 | <0.05 | 40.3 | 67 | 1.6 |
| A2018012 | | 0.186 | 0.14 | 1.18 | 89 | 0.19 | 18.45 | 80 | 15.7 |
| A2018013 | | 0.071 | 0.14 | 0.75 | 98 | 0.13 | 14.45 | 71 | 2.0 |
| A2018014 | | 0.035 | 0.06 | 0.47 | 95 | <0.05 | 23.6 | 80 | 1.5 |
| A2018015 | | 0.037 | 0.06 | 0.46 | 97 | <0.05 | 24.8 | 82 | 1.5 |
| A2018016 | | 0.027 | 0.14 | 0.87 | 83 | 0.10 | 27.3 | 89 | 1.6 |
| A2018017 | | 0.035 | 0.28 | 0.93 | 75 | 0.16 | 16.65 | 81 | 2.7 |
| A2018018 | | 0.200 | 1.16 | 0.76 | 413 | 0.17 | 38.5 | 119 | 3.4 |
| A2018019 | | 0.231 | 0.16 | 1.24 | 274 | 0.19 | 19.75 | 110 | 10.5 |
| A2018020 | | <0.005 | 0.62 | 0.06 | 14 | <0.05 | 3.69 | 98 | <0.5 |
| A2018021 | | <0.005 | 0.13 | 0.20 | 189 | 0.09 | 24.0 | 137 | 0.6 |
| A2018022 | | 0.018 | 0.17 | 0.58 | 165 | 0.23 | 9.69 | 143 | 0.5 |
| A2018023 | | 0.011 | 0.63 | 0.83 | 163 | 0.30 | 40.2 | 119 | 6.2 |
| A2018024 | | 0.026 | 0.31 | 0.49 | 225 | 0.22 | 22.8 | 132 | 1.6 |
| A2018025 | | 0.015 | 0.55 | 0.44 | 160 | 0.13 | 29.9 | 136 | 2.2 |
| A2018026 | | 0.067 | 0.40 | 0.57 | 193 | 0.33 | 10.65 | 192 | 1.4 |
| A2018027 | | 0.044 | 0.28 | 0.49 | 193 | 0.62 | 12.35 | 250 | 1.0 |
| A2018028 | | 0.034 | 0.32 | 0.39 | 89 | 0.28 | 4.49 | 191 | 0.8 |
| A2018029 | | 0.036 | 0.20 | 0.47 | 163 | 0.32 | 12.25 | 168 | 1.1 |
| A2018030 | | 0.006 | 0.35 | 0.43 | 139 | 0.28 | 26.6 | 422 | 1.8 |
| A2018031 | | <0.005 | 0.59 | 0.50 | 104 | 0.93 | 37.7 | 145 | 2.5 |

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

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-ICP21 Au ppm 0.001 | ME-MS41 Ag ppm 0.01 | ME-MS41 Al % 0.01 | ME-MS41 As ppm 0.1 | ME-MS41 Au ppm 0.2 | ME-MS41 B ppm 10 | ME-MS41 Ba ppm 10 | ME-MS41 Be ppm 0.05 | ME-MS41 Bi ppm 0.01 | ME-MS41 Ca % 0.01 | ME-MS41 Cd ppm 0.01 | ME-MS41 Ce ppm 0.02 | ME-MS41 Co ppm 0.1 | ME-MS41 Cr ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018032 | | 0.64 | 0.053 | 2.08 | 3.63 | 102.0 | <0.2 | 10 | 290 | 1.49 | 0.84 | 0.67 | 0.85 | 67.3 | 54.9 | 32 |
| A2018033 | | 0.46 | 0.056 | 1.49 | 1.74 | 135.0 | <0.2 | 10 | 430 | 1.32 | 1.18 | 0.98 | 0.99 | 35.1 | 46.0 | 25 |
| A2018051 | | 0.40 | 0.162 | 1.40 | 0.78 | 82.5 | <0.2 | <10 | 650 | 0.70 | 0.10 | 0.25 | 0.18 | 27.6 | 19.4 | 1 |
| A2018052 | | 0.34 | 0.114 | 2.46 | 1.53 | 131.0 | <0.2 | <10 | 1040 | 1.98 | 0.20 | 0.62 | 0.49 | 23.2 | 7.0 | 3 |
| A2018053 | | 0.36 | 1.275 | 4.13 | 2.11 | 316 | 0.7 | <10 | 750 | 1.01 | 0.31 | 0.16 | 0.30 | 37.7 | 14.8 | 5 |
| A2018054 | | 0.44 | 0.002 | 0.12 | 2.49 | 18.3 | <0.2 | <10 | 110 | 1.90 | 0.06 | 0.13 | 0.33 | 34.8 | 92.3 | 3 |
| A2018055 | | 0.46 | 0.002 | 0.09 | 1.52 | 9.3 | <0.2 | <10 | 610 | 0.46 | 0.12 | 0.13 | 0.08 | 8.07 | 12.8 | 5 |
| A2018056 | | 0.60 | 0.001 | 0.20 | 0.55 | 89.4 | <0.2 | <10 | 670 | 1.18 | 0.22 | 0.33 | 0.23 | 81.8 | 19.1 | 1 |
| A2018057 | | 0.50 | 0.002 | 0.09 | 0.65 | 6.4 | <0.2 | <10 | 860 | 1.42 | 0.07 | 0.45 | 0.21 | 19.50 | 20.2 | <1 |
| A2018058 | | 0.42 | 0.007 | 0.19 | 0.53 | 17.8 | <0.2 | <10 | 880 | 0.83 | 0.12 | 0.18 | 0.08 | 17.70 | 18.0 | 1 |
| A2018059 | | 0.48 | 0.001 | 0.09 | 1.11 | 19.8 | <0.2 | <10 | 410 | 1.00 | 0.45 | 0.21 | 0.09 | 42.1 | 7.4 | 1 |
| A2018061 | | 0.62 | 0.015 | 0.28 | 2.61 | 20.9 | <0.2 | 10 | 180 | 1.28 | 0.20 | 0.32 | 0.27 | 26.6 | 19.1 | 19 |
| A2018062 | | 0.52 | 0.003 | 0.31 | 2.09 | 24.7 | <0.2 | <10 | 220 | 1.03 | 0.17 | 0.19 | 0.50 | 29.5 | 19.8 | 15 |
| A2018063 | | 0.40 | 0.009 | 0.89 | 2.01 | 18.0 | <0.2 | <10 | 140 | 1.46 | 0.20 | 0.18 | 0.20 | 39.7 | 18.0 | 13 |
| A2018064 | | 0.64 | 0.022 | 0.81 | 2.56 | 49.2 | <0.2 | <10 | 140 | 1.02 | 0.27 | 0.20 | 0.27 | 25.5 | 15.2 | 14 |
| A2018065 | | 0.50 | 0.008 | 0.67 | 2.46 | 41.9 | <0.2 | <10 | 120 | 0.91 | 0.44 | 0.10 | 0.20 | 16.70 | 22.1 | 20 |
| A2018066 | | 0.46 | 0.020 | 0.44 | 2.69 | 44.8 | <0.2 | <10 | 160 | 1.12 | 0.44 | 0.13 | 0.15 | 24.0 | 41.4 | 22 |
| A2018067 | | 0.44 | 0.027 | 0.65 | 2.89 | 58.6 | 0.5 | <10 | 160 | 1.31 | 0.43 | 0.13 | 0.14 | 25.7 | 39.3 | 20 |
| A2018068 | | 0.56 | 0.035 | 0.59 | 1.92 | 38.3 | <0.2 | <10 | 190 | 1.04 | 0.37 | 0.27 | 0.22 | 25.3 | 49.6 | 27 |
| A2018069 | | 0.68 | 0.026 | 0.78 | 1.79 | 41.5 | <0.2 | <10 | 180 | 0.62 | 0.31 | 0.32 | 0.20 | 15.15 | 23.4 | 21 |
| A2018070 | | 0.52 | 0.012 | 0.31 | 1.56 | 60.7 | <0.2 | <10 | 250 | 0.61 | 0.15 | 0.32 | 0.45 | 16.20 | 15.1 | 10 |
| A2018071 | | 0.46 | 0.012 | 0.67 | 2.11 | 60.8 | <0.2 | <10 | 130 | 0.63 | 0.45 | 0.11 | 0.25 | 13.20 | 23.4 | 16 |
| A2018072 | | 0.56 | 0.013 | 0.54 | 2.08 | 29.3 | <0.2 | <10 | 180 | 0.52 | 0.22 | 0.64 | 0.66 | 16.35 | 20.0 | 13 |
| A2018073 | | 0.54 | 0.023 | 0.63 | 2.03 | 34.7 | <0.2 | <10 | 100 | 0.41 | 0.20 | 0.07 | 0.15 | 11.45 | 9.7 | 18 |
| A2018074 | | 0.58 | 0.194 | 1.34 | 2.67 | 108.0 | <0.2 | <10 | 660 | 0.81 | 0.70 | 0.15 | 0.53 | 21.1 | 37.5 | 24 |
| A2018075 | | 0.80 | 0.193 | 1.29 | 2.68 | 114.5 | <0.2 | <10 | 690 | 0.92 | 0.79 | 0.16 | 0.61 | 21.6 | 39.4 | 24 |
| A2018076 | | 0.66 | 0.021 | 0.92 | 2.12 | 37.1 | <0.2 | <10 | 240 | 0.67 | 0.25 | 0.63 | 2.21 | 24.6 | 17.3 | 15 |
| A2018078 | | 0.44 | 0.013 | 1.27 | 1.93 | 33.2 | <0.2 | 10 | 210 | 0.87 | 0.24 | 1.22 | 1.56 | 28.5 | 12.6 | 15 |
| A2018079 | | 0.70 | 0.019 | 0.57 | 2.41 | 37.4 | <0.2 | 10 | 200 | 0.83 | 0.25 | 0.98 | 0.72 | 27.4 | 18.7 | 20 |
| A2018086 | | 0.56 | 0.013 | 0.74 | 2.02 | 23.7 | <0.2 | 20 | 200 | 0.72 | 0.18 | 1.58 | 0.64 | 19.55 | 14.8 | 22 |
| A2018087 | | 0.62 | 0.019 | 0.42 | 1.98 | 30.0 | <0.2 | 20 | 180 | 0.72 | 0.16 | 1.32 | 0.80 | 17.60 | 13.0 | 25 |
| A2018101 | | 0.64 | NSS | 0.09 | 2.67 | 3.3 | <0.2 | <10 | 1050 | 1.20 | 0.04 | 0.73 | 0.17 | 56.9 | 20.8 | 3 |
| A2018102 | | 0.68 | 0.030 | 0.07 | 2.21 | 6.7 | <0.2 | <10 | 760 | 0.99 | 0.04 | 0.86 | 0.11 | 41.0 | 19.7 | 2 |
| A2018103 | | 0.52 | 0.009 | 0.15 | 1.61 | 6.6 | <0.2 | <10 | 1710 | 0.93 | 0.15 | 0.63 | 0.09 | 8.40 | 14.0 | 1 |
| A2018104 | | 0.54 | 0.010 | 0.15 | 1.68 | 7.9 | <0.2 | <10 | 1610 | 0.92 | 0.15 | 0.64 | 0.10 | 10.05 | 14.2 | 1 |
| A2018105 | | 0.42 | 0.010 | 0.13 | 1.95 | 13.0 | <0.2 | <10 | 260 | 0.65 | 0.18 | 0.38 | 0.07 | 13.90 | 5.7 | 1 |
| A2018106 | | 0.60 | 0.006 | 0.06 | 2.07 | 7.1 | <0.2 | <10 | 1490 | 0.71 | 0.14 | 0.49 | 0.07 | 15.50 | 6.6 | 1 |
| A2018107 | | 0.60 | 0.010 | 0.05 | 2.29 | 6.2 | <0.2 | <10 | 900 | 1.02 | 0.10 | 0.45 | 0.16 | 30.9 | 14.1 | 3 |
| A2018108 | | 0.56 | 0.003 | 0.06 | 1.94 | 4.1 | <0.2 | <10 | 750 | 0.93 | 0.09 | 0.55 | 0.16 | 24.2 | 14.2 | 1 |
| A2018109 | | 0.58 | 0.001 | 0.04 | 1.54 | 3.2 | <0.2 | <10 | 670 | 0.98 | 0.07 | 0.50 | 0.06 | 17.60 | 11.0 | 1 |

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

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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Cs<br>ppm<br>0.05 | ME-MS41<br>Cu<br>ppm<br>0.2 | ME-MS41<br>Fe<br>%<br>0.01 | ME-MS41<br>Ga<br>ppm<br>0.05 | ME-MS41<br>Ge<br>ppm<br>0.05 | ME-MS41<br>Hf<br>ppm<br>0.02 | ME-MS41<br>Hg<br>ppm<br>0.01 | ME-MS41<br>In<br>ppm<br>0.005 | ME-MS41<br>K<br>%<br>0.01 | ME-MS41<br>La<br>ppm<br>0.2 | ME-MS41<br>Li<br>ppm<br>0.1 | ME-MS41<br>Mg<br>%<br>0.01 | ME-MS41<br>Mn<br>ppm<br>5 | ME-MS41<br>Mo<br>ppm<br>0.05 | ME-MS41<br>Na<br>%<br>0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018032 | | 12.65 | 283 | 9.88 | 8.04 | 0.10 | 0.07 | 0.47 | 0.131 | 0.17 | 23.2 | 15.6 | 0.94 | 4690 | 2.00 | 0.01 |
| A2018033 | | 6.86 | 394 | 9.39 | 6.80 | 0.07 | 0.03 | 0.18 | 0.116 | 0.22 | 16.3 | 9.5 | 0.82 | 2800 | 2.27 | 0.01 |
| A2018051 | | 0.38 | 19.0 | 2.81 | 1.60 | <0.05 | 0.08 | 0.31 | 0.039 | 0.12 | 11.6 | 4.2 | 0.07 | 1200 | 1.92 | <0.01 |
| A2018052 | | 0.50 | 17.3 | 5.00 | 4.13 | 0.06 | 0.07 | 0.28 | 0.041 | 0.13 | 23.2 | 6.5 | 0.20 | 1090 | 1.80 | 0.01 |
| A2018053 | | 0.61 | 54.2 | 5.15 | 4.98 | 0.06 | 0.07 | 1.17 | 0.053 | 0.10 | 16.2 | 9.3 | 0.34 | 3220 | 2.24 | <0.01 |
| A2018054 | | 5.06 | 57.0 | 5.33 | 3.68 | 0.11 | 0.04 | 2.21 | 0.036 | 0.29 | 13.9 | 39.8 | 0.06 | 2190 | 1.38 | 0.18 |
| A2018055 | | 4.68 | 25.7 | 3.34 | 4.89 | 0.08 | 0.02 | 0.56 | 0.042 | 0.11 | 3.4 | 6.9 | 0.12 | 658 | 1.41 | 0.01 |
| A2018056 | | 3.54 | 30.8 | 2.30 | 0.93 | 0.10 | 0.03 | 6.60 | 0.058 | 0.09 | 46.5 | 1.3 | 0.01 | 3730 | 0.37 | <0.01 |
| A2018057 | | 2.56 | 20.7 | 2.80 | 1.06 | 0.06 | <0.02 | 1.24 | 0.055 | 0.14 | 9.9 | 1.6 | 0.03 | 1070 | 0.65 | 0.01 |
| A2018058 | | 2.68 | 26.0 | 3.60 | 1.26 | 0.08 | <0.02 | 3.88 | 0.065 | 0.11 | 7.4 | 1.2 | 0.03 | 337 | 1.54 | <0.01 |
| A2018059 | | 2.24 | 11.8 | 2.35 | 3.59 | <0.05 | 0.04 | 2.09 | 0.033 | 0.14 | 20.9 | 8.2 | 0.11 | 1780 | 0.65 | 0.01 |
| A2018061 | | 9.68 | 61.5 | 6.12 | 19.45 | <0.05 | 0.07 | 0.06 | 0.074 | 0.08 | 12.1 | 29.2 | 0.69 | 2630 | 3.87 | 0.01 |
| A2018062 | | 2.57 | 62.0 | 5.35 | 13.30 | <0.05 | 0.02 | 0.08 | 0.060 | 0.08 | 13.8 | 14.3 | 0.47 | 2810 | 3.69 | 0.01 |
| A2018063 | | 3.07 | 38.1 | 4.69 | 16.20 | <0.05 | 0.04 | 0.07 | 0.085 | 0.06 | 18.3 | 11.1 | 0.24 | 2300 | 4.95 | 0.02 |
| A2018064 | | 2.27 | 68.3 | 6.66 | 13.60 | <0.05 | 0.03 | 0.10 | 0.073 | 0.12 | 9.9 | 15.6 | 0.54 | 1460 | 4.08 | 0.01 |
| A2018065 | | 3.05 | 71.7 | 8.07 | 14.85 | <0.05 | 0.08 | 0.08 | 0.089 | 0.06 | 7.3 | 13.5 | 0.48 | 1560 | 5.84 | 0.01 |
| A2018066 | | 3.53 | 570 | 8.65 | 15.00 | <0.05 | 0.15 | 0.08 | 0.080 | 0.08 | 10.4 | 19.1 | 0.59 | 1980 | 33.9 | 0.01 |
| A2018067 | | 3.98 | 809 | 8.27 | 13.55 | 0.05 | 0.23 | 0.10 | 0.077 | 0.08 | 10.8 | 21.7 | 0.64 | 1400 | 34.5 | 0.01 |
| A2018068 | | 2.66 | 734 | 8.99 | 10.45 | 0.05 | 0.02 | 0.05 | 0.085 | 0.08 | 11.1 | 13.2 | 0.77 | 1730 | 38.9 | 0.01 |
| A2018069 | | 2.34 | 266 | 7.12 | 9.96 | <0.05 | 0.03 | 0.09 | 0.063 | 0.08 | 6.9 | 11.3 | 0.60 | 1130 | 12.35 | 0.01 |
| A2018070 | | 1.26 | 62.7 | 5.46 | 8.29 | <0.05 | <0.02 | 0.06 | 0.045 | 0.09 | 7.3 | 6.9 | 0.27 | 1730 | 3.78 | 0.01 |
| A2018071 | | 2.06 | 93.7 | 8.07 | 12.45 | <0.05 | 0.07 | 0.06 | 0.081 | 0.08 | 5.9 | 7.9 | 0.36 | 1410 | 3.88 | 0.01 |
| A2018072 | | 1.06 | 72.4 | 5.08 | 7.15 | <0.05 | <0.02 | 0.10 | 0.042 | 0.14 | 6.8 | 9.8 | 0.66 | 1450 | 2.66 | 0.01 |
| A2018073 | | 1.42 | 48.9 | 7.43 | 14.25 | <0.05 | 0.26 | 0.13 | 0.060 | 0.07 | 4.9 | 7.0 | 0.27 | 553 | 3.78 | 0.01 |
| A2018074 | | 1.83 | 484 | 10.65 | 7.95 | <0.05 | 0.04 | 0.18 | 0.088 | 0.09 | 9.9 | 13.7 | 0.77 | 1700 | 13.80 | 0.01 |
| A2018075 | | 1.92 | 527 | 11.00 | 8.00 | 0.05 | 0.03 | 0.16 | 0.087 | 0.10 | 9.6 | 14.1 | 0.82 | 1780 | 14.35 | 0.01 |
| A2018076 | | 1.63 | 82.5 | 5.54 | 9.76 | <0.05 | 0.02 | 0.09 | 0.058 | 0.09 | 11.6 | 35.3 | 0.39 | 3040 | 9.35 | 0.01 |
| A2018078 | | 1.31 | 71.0 | 4.37 | 8.39 | <0.05 | 0.05 | 0.18 | 0.054 | 0.05 | 14.5 | 29.2 | 0.33 | 1050 | 4.50 | 0.01 |
| A2018079 | | 2.31 | 58.1 | 5.53 | 8.34 | <0.05 | 0.04 | 0.16 | 0.056 | 0.06 | 13.8 | 94.8 | 0.76 | 640 | 2.25 | 0.02 |
| A2018086 | | 1.30 | 62.6 | 4.40 | 7.27 | 0.05 | 0.08 | 0.17 | 0.047 | 0.10 | 11.4 | 46.9 | 0.86 | 951 | 1.41 | 0.03 |
| A2018087 | | 4.00 | 63.0 | 4.14 | 8.49 | 0.06 | 0.13 | 0.13 | 0.045 | 0.10 | 11.5 | 49.2 | 0.90 | 886 | 1.60 | 0.03 |
| A2018101 | | 1.23 | 23.2 | 6.47 | 14.65 | 0.09 | 0.06 | 0.05 | 0.055 | 0.13 | 26.5 | 18.4 | 1.23 | 2140 | 1.33 | 0.02 |
| A2018102 | | 1.64 | 28.2 | 5.93 | 10.50 | 0.09 | 0.08 | 0.03 | 0.029 | 0.18 | 21.7 | 16.5 | 0.83 | 1390 | 1.23 | 0.01 |
| A2018103 | | 1.90 | 20.6 | 2.79 | 4.36 | <0.05 | 0.04 | 0.35 | 0.041 | 0.23 | 3.3 | 8.5 | 0.22 | 929 | 0.49 | <0.01 |
| A2018104 | | 1.80 | 20.7 | 3.00 | 4.62 | <0.05 | 0.05 | 0.38 | 0.039 | 0.22 | 4.0 | 9.0 | 0.24 | 1110 | 0.53 | <0.01 |
| A2018105 | | 1.81 | 12.4 | 4.75 | 5.07 | <0.05 | 0.02 | 1.01 | 0.040 | 0.34 | 6.5 | 6.3 | 0.14 | 275 | 2.03 | 0.03 |
| A2018106 | | 1.58 | 13.6 | 3.85 | 6.00 | <0.05 | 0.05 | 0.34 | 0.034 | 0.21 | 6.8 | 8.3 | 0.24 | 323 | 1.05 | 0.01 |
| A2018107 | | 1.83 | 18.9 | 3.93 | 7.36 | <0.05 | 0.03 | 0.06 | 0.044 | 0.21 | 12.3 | 12.4 | 0.41 | 970 | 0.79 | 0.01 |
| A2018108 | | 1.96 | 13.1 | 3.41 | 6.67 | 0.05 | 0.02 | 0.09 | 0.038 | 0.21 | 10.6 | 13.2 | 0.32 | 1010 | 0.58 | 0.01 |
| A2018109 | | 1.64 | 9.4 | 2.50 | 4.77 | <0.05 | 0.04 | 0.13 | 0.032 | 0.22 | 6.6 | 7.9 | 0.23 | 686 | 0.43 | 0.01 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018032 | | 2.86 | 15.9 | 2860 | 31.8 | 22.4 | <0.001 | 0.08 | 11.25 | 12.9 | 3.0 | 0.7 | 41.6 | 0.05 | 0.61 | 0.7 |
| A2018033 | | 1.69 | 18.2 | 3030 | 31.1 | 18.3 | <0.001 | 0.10 | 16.90 | 11.9 | 2.0 | 0.5 | 53.2 | 0.01 | 0.96 | 0.3 |
| A2018051 | | 0.41 | 1.6 | 1180 | 11.5 | 6.2 | <0.001 | 0.04 | 3.27 | 2.7 | 1.6 | 0.3 | 25.4 | <0.01 | 0.13 | 0.4 |
| A2018052 | | 0.96 | 2.6 | 1620 | 14.6 | 13.8 | <0.001 | 0.08 | 2.03 | 2.9 | 1.4 | 0.4 | 55.7 | 0.01 | 0.07 | 0.4 |
| A2018053 | | 0.84 | 3.7 | 1300 | 18.3 | 15.0 | <0.001 | 0.08 | 9.12 | 5.1 | 2.1 | 0.4 | 12.3 | <0.01 | 0.26 | 0.4 |
| A2018054 | | <0.05 | 13.2 | 1130 | 9.0 | 12.4 | <0.001 | 1.17 | 24.0 | 6.6 | 0.8 | 0.4 | 190.0 | <0.01 | 0.03 | 1.6 |
| A2018055 | | 0.26 | 2.3 | 550 | 11.1 | 9.2 | <0.001 | 0.09 | 7.02 | 6.8 | 0.8 | 0.6 | 28.6 | <0.01 | 0.04 | 1.0 |
| A2018056 | | <0.05 | 1.4 | 1480 | 30.7 | 5.3 | <0.001 | 0.03 | 17.75 | 6.6 | 1.7 | 0.2 | 14.8 | <0.01 | 0.01 | 6.0 |
| A2018057 | | <0.05 | 5.5 | 1150 | 11.6 | 7.1 | <0.001 | 0.03 | 0.66 | 10.8 | 0.7 | 0.2 | 44.1 | <0.01 | 0.01 | 3.1 |
| A2018058 | | 0.06 | 2.4 | 680 | 19.5 | 5.5 | <0.001 | 0.22 | 8.08 | 12.4 | 1.1 | 0.2 | 26.4 | <0.01 | 0.04 | 1.9 |
| A2018059 | | 0.44 | 1.4 | 870 | 22.4 | 9.4 | <0.001 | 0.03 | 4.64 | 2.4 | 0.8 | 0.4 | 26.5 | <0.01 | 0.03 | 1.4 |
| A2018061 | | 11.50 | 12.8 | 1940 | 20.9 | 15.2 | <0.001 | 0.04 | 1.56 | 6.9 | 0.8 | 2.8 | 20.9 | 0.02 | 0.06 | 0.7 |
| A2018062 | | 5.27 | 10.8 | 1780 | 23.2 | 10.1 | <0.001 | 0.05 | 1.34 | 5.6 | 1.0 | 1.9 | 15.3 | 0.02 | 0.08 | 0.2 |
| A2018063 | | 8.62 | 7.4 | 1330 | 28.5 | 12.9 | <0.001 | 0.05 | 0.99 | 2.5 | 0.8 | 2.7 | 14.6 | 0.02 | 0.08 | <0.2 |
| A2018064 | | 8.86 | 10.9 | 2010 | 29.1 | 18.9 | <0.001 | 0.03 | 1.84 | 5.2 | 1.0 | 2.1 | 11.4 | 0.01 | 1.11 | 0.6 |
| A2018065 | | 9.99 | 11.0 | 1700 | 38.2 | 13.7 | <0.001 | 0.05 | 1.52 | 6.9 | 1.4 | 1.8 | 10.6 | 0.02 | 0.32 | 1.0 |
| A2018066 | | 10.40 | 17.7 | 1900 | 25.0 | 16.9 | <0.001 | 0.04 | 1.99 | 11.6 | 5.4 | 2.2 | 16.2 | 0.04 | 0.18 | 1.4 |
| A2018067 | | 10.05 | 22.1 | 1630 | 25.4 | 16.3 | <0.001 | 0.04 | 2.05 | 11.9 | 6.0 | 2.1 | 15.9 | 0.04 | 0.21 | 1.7 |
| A2018068 | | 2.62 | 15.0 | 1980 | 21.5 | 16.0 | 0.001 | 0.04 | 1.56 | 16.3 | 3.7 | 1.2 | 19.1 | 0.01 | 0.14 | 0.5 |
| A2018069 | | 3.43 | 10.6 | 2940 | 25.0 | 18.5 | <0.001 | 0.05 | 2.27 | 6.7 | 2.1 | 1.1 | 21.0 | 0.01 | 0.16 | 0.3 |
| A2018070 | | 1.83 | 8.3 | 1420 | 31.7 | 11.1 | <0.001 | 0.04 | 1.67 | 2.5 | 0.6 | 0.9 | 20.6 | 0.01 | 0.13 | <0.2 |
| A2018071 | | 4.64 | 8.8 | 3330 | 36.1 | 14.5 | <0.001 | 0.03 | 1.68 | 8.2 | 1.2 | 1.2 | 11.9 | 0.01 | 0.38 | 1.0 |
| A2018072 | | 1.58 | 9.9 | 1350 | 24.1 | 11.5 | <0.001 | 0.06 | 1.26 | 5.5 | 0.8 | 0.4 | 29.9 | <0.01 | 0.27 | 0.2 |
| A2018073 | | 7.44 | 7.6 | 2450 | 30.8 | 7.9 | <0.001 | 0.02 | 1.10 | 5.3 | 0.5 | 2.2 | 8.8 | 0.01 | 0.10 | 1.6 |
| A2018074 | | 1.16 | 13.0 | 3210 | 81.6 | 11.9 | 0.001 | 0.06 | 2.63 | 17.0 | 3.2 | 0.4 | 18.5 | 0.01 | 1.09 | 0.8 |
| A2018075 | | 1.19 | 13.8 | 3420 | 86.1 | 13.2 | 0.001 | 0.07 | 2.73 | 17.6 | 3.4 | 0.5 | 18.3 | 0.01 | 1.28 | 0.7 |
| A2018076 | | 2.08 | 9.5 | 1790 | 35.7 | 15.3 | 0.003 | 0.09 | 1.22 | 2.4 | 1.9 | 1.0 | 37.8 | 0.01 | 0.15 | <0.2 |
| A2018078 | | 4.49 | 8.3 | 1620 | 30.9 | 6.3 | 0.001 | 0.12 | 1.02 | 3.1 | 3.0 | 1.0 | 92.2 | 0.03 | 0.08 | <0.2 |
| A2018079 | | 2.85 | 13.9 | 800 | 35.6 | 11.6 | 0.001 | 0.03 | 0.83 | 9.2 | 3.0 | 0.6 | 76.5 | 0.01 | 0.08 | 0.5 |
| A2018086 | | 1.72 | 18.6 | 1300 | 20.4 | 17.3 | 0.001 | 0.08 | 1.14 | 6.3 | 1.7 | 0.5 | 155.0 | 0.01 | 0.07 | 0.3 |
| A2018087 | | 2.44 | 21.9 | 1630 | 14.2 | 26.2 | <0.001 | 0.10 | 1.23 | 4.8 | 1.6 | 0.7 | 203 | 0.02 | 0.07 | 0.3 |
| A2018101 | | 0.45 | 3.8 | 2210 | 6.8 | 7.3 | 0.001 | 0.03 | 0.20 | 15.6 | 1.3 | 0.7 | 32.6 | <0.01 | 0.02 | 2.2 |
| A2018102 | | 0.61 | 3.2 | 2020 | 5.1 | 9.4 | <0.001 | 0.03 | 0.21 | 13.0 | 1.0 | 0.4 | 29.0 | <0.01 | 0.03 | 2.0 |
| A2018103 | | 0.09 | 1.8 | 860 | 12.0 | 8.6 | <0.001 | 0.06 | 0.19 | 6.9 | 0.5 | 0.4 | 49.0 | <0.01 | 0.05 | 1.5 |
| A2018104 | | 0.10 | 1.8 | 970 | 11.7 | 8.4 | <0.001 | 0.06 | 0.22 | 7.2 | 0.8 | 0.5 | 49.2 | <0.01 | 0.05 | 1.5 |
| A2018105 | | 0.24 | 1.0 | 1450 | 12.2 | 7.6 | 0.001 | 0.65 | 0.28 | 4.0 | 1.0 | 0.4 | 227 | <0.01 | 0.06 | 0.6 |
| A2018106 | | 0.70 | 1.5 | 910 | 8.4 | 8.1 | <0.001 | 0.25 | 0.25 | 4.4 | 0.6 | 0.5 | 117.5 | <0.01 | 0.04 | 0.6 |
| A2018107 | | 0.48 | 3.3 | 1130 | 8.9 | 10.4 | <0.001 | 0.04 | 0.28 | 7.6 | 0.8 | 0.6 | 31.8 | <0.01 | 0.05 | 1.1 |
| A2018108 | | 0.25 | 1.8 | 1140 | 9.5 | 9.8 | <0.001 | 0.02 | 0.16 | 6.9 | 0.8 | 0.6 | 30.4 | <0.01 | 0.03 | 1.1 |
| A2018109 | | 0.53 | 1.3 | 1070 | 7.8 | 9.2 | <0.001 | 0.03 | 0.11 | 4.3 | 0.5 | 0.4 | 28.8 | <0.01 | 0.04 | 0.6 |

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

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Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018032 | | 0.064 | 0.39 | 0.78 | 191 | 0.71 | 28.7 | 229 | 3.0 |
| A2018033 | | 0.037 | 0.35 | 0.46 | 166 | 0.77 | 20.7 | 187 | 1.3 |
| A2018051 | | <0.005 | 0.41 | 0.26 | 18 | 0.05 | 15.30 | 66 | 2.5 |
| A2018052 | | <0.005 | 0.29 | 0.42 | 52 | 0.08 | 23.1 | 113 | 2.2 |
| A2018053 | | <0.005 | 0.65 | 0.37 | 52 | 0.11 | 20.2 | 107 | 2.0 |
| A2018054 | | <0.005 | 28.7 | 0.42 | 30 | <0.05 | 14.10 | 163 | 0.8 |
| A2018055 | | <0.005 | 4.67 | 0.45 | 39 | <0.05 | 7.68 | 48 | <0.5 |
| A2018056 | | <0.005 | 4.08 | 1.97 | 8 | 0.05 | 58.7 | 80 | 1.5 |
| A2018057 | | <0.005 | 0.95 | 0.48 | 19 | <0.05 | 20.3 | 120 | <0.5 |
| A2018058 | | <0.005 | 0.85 | 0.75 | 25 | <0.05 | 21.7 | 141 | <0.5 |
| A2018059 | | 0.006 | 0.51 | 1.25 | 23 | 0.10 | 15.50 | 72 | 0.9 |
| A2018061 | | 0.181 | 0.25 | 0.69 | 164 | 0.25 | 7.17 | 133 | 4.7 |
| A2018062 | | 0.072 | 0.16 | 0.52 | 137 | 0.19 | 9.20 | 126 | 1.2 |
| A2018063 | | 0.133 | 0.16 | 0.74 | 95 | 0.25 | 11.40 | 91 | 2.5 |
| A2018064 | | 0.062 | 0.25 | 0.47 | 127 | 0.24 | 5.78 | 152 | 2.4 |
| A2018065 | | 0.101 | 0.16 | 0.56 | 170 | 0.45 | 5.55 | 111 | 5.4 |
| A2018066 | | 0.101 | 0.23 | 0.69 | 166 | 0.42 | 8.56 | 97 | 11.0 |
| A2018067 | | 0.064 | 0.23 | 0.72 | 148 | 0.37 | 9.23 | 100 | 18.0 |
| A2018068 | | 0.064 | 0.14 | 0.47 | 223 | 0.36 | 10.25 | 80 | 1.0 |
| A2018069 | | 0.077 | 0.14 | 0.44 | 181 | 0.24 | 4.73 | 92 | 1.6 |
| A2018070 | | 0.022 | 0.14 | 0.32 | 114 | 0.15 | 5.31 | 139 | <0.5 |
| A2018071 | | 0.042 | 0.21 | 0.45 | 163 | 0.20 | 4.28 | 151 | 3.6 |
| A2018072 | | 0.041 | 0.08 | 0.34 | 119 | 0.12 | 6.56 | 131 | 0.5 |
| A2018073 | | 0.177 | 0.10 | 0.56 | 172 | 0.20 | 2.49 | 105 | 17.5 |
| A2018074 | | 0.032 | 0.17 | 0.46 | 155 | 0.19 | 12.80 | 168 | 1.3 |
| A2018075 | | 0.032 | 0.18 | 0.45 | 157 | 0.19 | 12.00 | 181 | 1.0 |
| A2018076 | | 0.042 | 0.11 | 0.87 | 122 | 0.12 | 11.15 | 179 | 1.1 |
| A2018078 | | 0.046 | 0.09 | 0.93 | 88 | 0.11 | 17.70 | 139 | 2.6 |
| A2018079 | | 0.041 | 0.10 | 0.51 | 129 | 0.12 | 16.95 | 172 | 1.8 |
| A2018086 | | 0.043 | 0.13 | 0.47 | 96 | 0.10 | 13.45 | 162 | 3.0 |
| A2018087 | | 0.053 | 0.14 | 1.15 | 90 | 0.10 | 13.10 | 179 | 4.7 |
| A2018101 | | 0.035 | 0.07 | 1.19 | 123 | 0.07 | 32.8 | 126 | 2.4 |
| A2018102 | | 0.109 | 0.06 | 1.23 | 113 | 0.05 | 29.3 | 115 | 2.9 |
| A2018103 | | <0.005 | 0.40 | 0.36 | 33 | <0.05 | 15.15 | 44 | 0.9 |
| A2018104 | | <0.005 | 0.39 | 0.38 | 35 | <0.05 | 16.05 | 46 | 1.0 |
| A2018105 | | <0.005 | 0.28 | 0.26 | 39 | <0.05 | 5.15 | 33 | 0.6 |
| A2018106 | | 0.005 | 0.16 | 0.38 | 50 | <0.05 | 7.89 | 54 | 1.3 |
| A2018107 | | 0.008 | 0.16 | 0.60 | 58 | <0.05 | 21.0 | 75 | 0.9 |
| A2018108 | | 0.007 | 0.14 | 0.39 | 40 | <0.05 | 19.95 | 66 | 0.6 |
| A2018109 | | 0.007 | 0.22 | 0.45 | 33 | <0.05 | 17.85 | 63 | 1.1 |

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

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Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-ICP21 Au ppm 0.001 | ME-MS41 Ag ppm 0.01 | ME-MS41 Al % 0.01 | ME-MS41 As ppm 0.1 | ME-MS41 Au ppm 0.2 | ME-MS41 B ppm 10 | ME-MS41 Ba ppm 10 | ME-MS41 Be ppm 0.05 | ME-MS41 Bi ppm 0.01 | ME-MS41 Ca % 0.01 | ME-MS41 Cd ppm 0.01 | ME-MS41 Ce ppm 0.02 | ME-MS41 Co ppm 0.1 | ME-MS41 Cr ppm 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018110 | | 0.58 | 0.006 | 0.17 | 3.03 | 11.8 | <0.2 | <10 | 530 | 1.39 | 0.20 | 0.27 | 0.29 | 45.8 | 15.2 | 5 |
| A2018111 | | 0.66 | 0.007 | 0.24 | 2.54 | 23.0 | <0.2 | <10 | 1390 | 1.39 | 0.21 | 0.44 | 0.87 | 64.7 | 31.6 | 4 |
| A2018112 | | 0.62 | 0.032 | 0.23 | 2.60 | 13.3 | <0.2 | <10 | 1030 | 0.93 | 0.10 | 0.33 | 0.38 | 44.6 | 20.1 | 2 |
| A2018113 | | 0.66 | 0.003 | 0.26 | 1.44 | 18.5 | <0.2 | <10 | 810 | 0.70 | 0.04 | 0.48 | 0.21 | 42.5 | 29.8 | 1 |
| A2018114 | | 0.32 | 0.046 | 1.08 | 2.20 | 95.4 | <0.2 | 10 | 130 | 1.37 | 0.23 | 0.18 | 0.25 | 39.9 | 19.9 | 22 |
| A2018115 | | 0.62 | 0.303 | 1.19 | 1.81 | 138.5 | <0.2 | <10 | 240 | 1.85 | 0.17 | 0.70 | 0.50 | 58.6 | 36.1 | 27 |
| A2018117 | | 0.62 | 0.123 | 2.39 | 0.58 | 216 | <0.2 | 10 | 360 | 1.11 | 0.13 | 0.91 | 0.35 | 38.9 | 19.9 | 4 |
| A2018118 | | 0.56 | 0.032 | 0.68 | 2.77 | 156.5 | <0.2 | 10 | 270 | 1.27 | 0.10 | 1.35 | 1.14 | 36.4 | 35.1 | 41 |
| A2018119 | | 0.52 | 0.056 | 0.96 | 2.63 | 150.0 | <0.2 | 10 | 350 | 1.22 | 0.09 | 1.19 | 1.04 | 34.6 | 36.2 | 31 |
| A2018120 | | 0.58 | 0.072 | 1.14 | 2.27 | 174.5 | <0.2 | 10 | 370 | 1.16 | 0.09 | 1.13 | 0.86 | 32.8 | 32.3 | 26 |
| A2018121 | | 0.66 | 0.049 | 0.91 | 2.64 | 151.5 | <0.2 | 10 | 350 | 1.26 | 0.09 | 1.18 | 1.22 | 34.2 | 36.6 | 31 |
| A2018122 | | 0.32 | 0.050 | 0.74 | 2.20 | 140.5 | <0.2 | 10 | 300 | 0.97 | 0.09 | 1.34 | 0.89 | 29.4 | 30.0 | 28 |
| A2018123 | | 0.30 | 0.054 | 0.73 | 2.36 | 155.0 | <0.2 | 10 | 290 | 1.14 | 0.09 | 1.27 | 1.03 | 33.8 | 33.6 | 30 |
| A2018124 | | 0.34 | 0.041 | 0.74 | 2.47 | 83.7 | <0.2 | <10 | 270 | 1.08 | 0.20 | 0.93 | 0.83 | 35.4 | 31.0 | 24 |
| A2018125 | | 0.38 | 0.039 | 0.88 | 2.36 | 57.4 | <0.2 | <10 | 260 | 0.89 | 0.31 | 0.65 | 1.01 | 30.2 | 25.9 | 25 |
| A2018126 | | 0.58 | 0.027 | 0.65 | 2.52 | 46.1 | <0.2 | <10 | 250 | 0.97 | 0.23 | 0.70 | 0.54 | 30.8 | 25.6 | 28 |
| A2018127 | | 0.24 | 0.080 | 0.15 | 1.84 | 29.5 | <0.2 | <10 | 170 | 0.39 | 0.13 | 0.60 | 0.45 | 10.55 | 17.7 | 67 |
| A2018128 | | 0.34 | 0.029 | 0.40 | 2.35 | 25.8 | <0.2 | <10 | 270 | 0.52 | 0.25 | 0.53 | 0.40 | 14.70 | 13.6 | 32 |
| A2018129 | | 0.32 | 0.283 | 0.82 | 1.65 | 104.0 | <0.2 | 10 | 240 | 1.20 | 1.12 | 0.78 | 0.51 | 22.7 | 30.7 | 18 |
| A2018130 | | 0.50 | 0.002 | 0.43 | 1.16 | 91.9 | <0.2 | <10 | 330 | 1.53 | 0.16 | 0.63 | 0.39 | 45.2 | 28.2 | 4 |
| A2018131 | | 0.56 | 0.016 | 1.30 | 1.54 | 103.5 | <0.2 | <10 | 220 | 1.39 | 0.14 | 0.53 | 0.44 | 27.5 | 21.4 | 12 |
| A2018132 | | 0.44 | 0.011 | 0.48 | 1.75 | 98.2 | <0.2 | <10 | 370 | 1.61 | 0.25 | 0.56 | 1.52 | 32.7 | 25.8 | 13 |
| A2018133 | | 0.52 | 0.008 | 0.45 | 1.09 | 102.0 | <0.2 | 10 | 330 | 1.02 | 0.16 | 0.74 | 0.51 | 27.2 | 24.3 | 11 |
| A2018134 | | 0.58 | 0.028 | 1.25 | 1.31 | 166.5 | <0.2 | 10 | 230 | 0.97 | 0.18 | 0.86 | 1.66 | 21.4 | 25.4 | 13 |
| A2018135 | | 0.52 | 0.007 | 0.50 | 2.50 | 47.1 | <0.2 | <10 | 250 | 1.31 | 0.22 | 0.31 | 0.37 | 39.5 | 34.2 | 25 |
| A2018136 | | 0.56 | 0.035 | 1.58 | 1.06 | 168.0 | <0.2 | 10 | 230 | 1.22 | 0.13 | 0.61 | 0.31 | 35.0 | 32.1 | 12 |
| A2018137 | | 0.62 | 0.020 | 1.09 | 1.21 | 149.5 | <0.2 | <10 | 200 | 1.07 | 0.11 | 0.75 | 0.29 | 25.5 | 31.9 | 20 |
| A2018138 | | 0.62 | 0.107 | 0.26 | 1.20 | 75.8 | <0.2 | <10 | 220 | 0.36 | 1.22 | 0.03 | 0.03 | 26.4 | 33.2 | 26 |
| A2018139 | | 0.56 | 0.079 | 1.12 | 0.92 | 244 | <0.2 | 10 | 640 | 1.68 | 0.88 | 1.21 | 0.10 | 46.0 | 88.2 | 4 |
| A2018140 | | 0.64 | 0.120 | 0.43 | 0.91 | 201 | <0.2 | <10 | 430 | 1.58 | 0.88 | 0.32 | 0.30 | 52.7 | 90.3 | 1 |
| A2018143 | | 0.62 | 0.155 | 0.54 | 2.17 | 84.9 | <0.2 | 10 | 310 | 1.30 | 0.82 | 0.20 | 0.33 | 26.4 | 55.2 | 10 |
| A2018144 | | 0.46 | 0.167 | 1.24 | 2.41 | 193.5 | 0.2 | <10 | 220 | 0.71 | 0.37 | 0.23 | 0.23 | 13.00 | 20.0 | 17 |
| A2018145 | | 0.36 | 0.377 | 1.06 | 1.44 | 209 | 0.2 | <10 | 280 | 0.50 | 0.48 | 0.33 | 0.28 | 14.55 | 20.1 | 17 |
| A2018146 | | 0.54 | 0.236 | 0.70 | 1.57 | 76.3 | <0.2 | <10 | 290 | 0.97 | 0.88 | 0.83 | 0.31 | 37.8 | 80.8 | 22 |
| A2018147 | | 0.48 | 0.064 | 0.65 | 1.24 | 76.8 | <0.2 | 10 | 300 | 0.72 | 0.57 | 1.34 | 0.87 | 28.1 | 60.8 | 15 |
| A2018148 | | 0.36 | 0.017 | 0.40 | 2.27 | 30.6 | <0.2 | <10 | 190 | 0.88 | 0.15 | 0.11 | 0.21 | 18.65 | 11.2 | 14 |
| A2018149 | | 0.46 | 0.017 | 0.44 | 2.31 | 33.7 | <0.2 | <10 | 180 | 0.95 | 0.17 | 0.10 | 0.21 | 19.80 | 11.7 | 14 |
| A2018150 | | 0.48 | 0.005 | 0.88 | 2.02 | 36.1 | <0.2 | <10 | 160 | 0.54 | 0.14 | 0.18 | 0.22 | 11.80 | 12.0 | 12 |
| A2018151 | | 0.44 | 0.007 | 0.12 | 0.52 | 23.2 | <0.2 | <10 | 240 | 0.10 | 0.39 | 0.01 | 0.01 | 1.57 | 1.3 | 2 |
| A2018152 | | 0.68 | 0.009 | 0.17 | 0.31 | 37.5 | <0.2 | <10 | 440 | 0.05 | 0.63 | 0.01 | 0.01 | 1.38 | 0.4 | 1 |

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

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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cs | Cu | Fe | Ga | Ge | Hf | Hg | In | K | La | Li | Mg | Mn | Mo | Na |
| | Units | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % |
| | LOR | 0.05 | 0.2 | 0.01 | 0.05 | 0.05 | 0.02 | 0.01 | 0.005 | 0.01 | 0.2 | 0.1 | 0.01 | 5 | 0.05 | 0.01 |
| A2018110 | | 2.95 | 15.8 | 4.84 | 11.15 | 0.07 | 0.04 | 0.10 | 0.078 | 0.14 | 16.6 | 12.9 | 0.46 | 1460 | 2.55 | 0.02 |
| A2018111 | | 1.84 | 23.8 | 6.30 | 10.75 | 0.07 | 0.09 | 0.20 | 0.071 | 0.13 | 25.5 | 14.6 | 0.70 | 3200 | 3.41 | 0.02 |
| A2018112 | | 1.48 | 15.6 | 4.41 | 7.46 | <0.05 | 0.04 | 0.85 | 0.048 | 0.18 | 11.9 | 10.1 | 0.32 | 1990 | 2.15 | 0.02 |
| A2018113 | | 2.07 | 22.0 | 6.95 | 6.36 | 0.09 | 0.09 | 0.54 | 0.052 | 0.18 | 17.3 | 8.3 | 0.25 | 2500 | 8.62 | 0.05 |
| A2018114 | | 6.30 | 92.1 | 7.50 | 17.10 | 0.05 | 0.07 | 0.05 | 0.093 | 0.07 | 16.6 | 17.9 | 0.63 | 1380 | 3.25 | 0.04 |
| A2018115 | | 4.83 | 156.0 | 9.05 | 8.19 | 0.10 | 0.05 | 0.08 | 0.081 | 0.10 | 31.3 | 11.1 | 0.61 | 2760 | 1.89 | 0.03 |
| A2018117 | | 3.40 | 94.1 | 4.59 | 2.22 | 0.06 | 0.03 | 0.08 | 0.045 | 0.11 | 19.6 | 2.3 | 0.23 | 2310 | 3.25 | 0.02 |
| A2018118 | | 9.77 | 180.5 | 7.89 | 15.65 | 0.15 | 0.17 | 0.03 | 0.070 | 0.40 | 18.4 | 27.1 | 2.50 | 1590 | 0.89 | 0.04 |
| A2018119 | | 7.44 | 181.5 | 7.80 | 13.90 | 0.13 | 0.14 | 0.03 | 0.072 | 0.26 | 17.4 | 27.1 | 2.25 | 2010 | 1.20 | 0.04 |
| A2018120 | | 7.10 | 152.5 | 7.07 | 11.35 | 0.09 | 0.10 | 0.04 | 0.067 | 0.29 | 16.2 | 21.9 | 1.73 | 2090 | 1.54 | 0.03 |
| A2018121 | | 7.95 | 185.0 | 7.75 | 14.35 | 0.11 | 0.15 | 0.05 | 0.073 | 0.30 | 17.2 | 28.3 | 2.23 | 2030 | 1.23 | 0.04 |
| A2018122 | | 6.84 | 142.5 | 6.68 | 10.75 | 0.12 | 0.13 | 0.05 | 0.056 | 0.34 | 14.8 | 21.2 | 1.87 | 1780 | 1.22 | 0.04 |
| A2018123 | | 7.49 | 156.0 | 7.07 | 12.55 | 0.13 | 0.15 | 0.04 | 0.062 | 0.31 | 16.8 | 23.9 | 2.04 | 1840 | 1.26 | 0.04 |
| A2018124 | | 5.23 | 251 | 6.56 | 11.05 | 0.08 | 0.10 | 0.10 | 0.066 | 0.19 | 17.8 | 22.0 | 1.47 | 1740 | 1.77 | 0.03 |
| A2018125 | | 3.27 | 212 | 6.11 | 9.58 | 0.07 | 0.05 | 0.11 | 0.062 | 0.16 | 15.5 | 16.6 | 1.11 | 1570 | 2.16 | 0.03 |
| A2018126 | | 2.54 | 195.5 | 6.06 | 9.91 | 0.08 | 0.07 | 0.12 | 0.058 | 0.12 | 17.3 | 19.5 | 1.25 | 1440 | 2.24 | 0.03 |
| A2018127 | | 0.63 | 37.2 | 4.46 | 6.59 | <0.05 | <0.02 | 0.02 | 0.033 | 0.05 | 4.9 | 10.3 | 1.07 | 1070 | 1.84 | 0.03 |
| A2018128 | | 0.86 | 71.4 | 4.43 | 8.89 | <0.05 | <0.02 | 0.09 | 0.046 | 0.10 | 7.6 | 13.2 | 0.86 | 618 | 2.29 | 0.03 |
| A2018129 | | 6.52 | 193.0 | 7.94 | 8.49 | 0.05 | <0.02 | 0.09 | 0.118 | 0.09 | 11.9 | 7.7 | 0.49 | 1660 | 3.07 | 0.03 |
| A2018130 | | 11.75 | 113.5 | 7.45 | 5.81 | 0.07 | 0.03 | 0.10 | 0.081 | 0.11 | 17.3 | 4.5 | 0.13 | 2980 | 1.55 | 0.03 |
| A2018131 | | 3.24 | 75.8 | 6.02 | 7.98 | <0.05 | 0.02 | 0.07 | 0.064 | 0.11 | 12.1 | 6.8 | 0.26 | 2450 | 2.18 | 0.03 |
| A2018132 | | 5.92 | 80.1 | 6.34 | 10.45 | 0.05 | 0.02 | 0.05 | 0.073 | 0.13 | 12.4 | 8.1 | 0.33 | 3600 | 3.06 | 0.03 |
| A2018133 | | 2.73 | 91.7 | 6.03 | 5.46 | <0.05 | <0.02 | 0.08 | 0.059 | 0.13 | 11.1 | 4.7 | 0.17 | 3850 | 5.37 | 0.03 |
| A2018134 | | 4.26 | 151.5 | 7.25 | 5.20 | <0.05 | 0.04 | 0.13 | 0.069 | 0.12 | 11.5 | 7.1 | 0.25 | 2810 | 2.85 | 0.03 |
| A2018135 | | 5.75 | 77.0 | 6.94 | 17.50 | 0.05 | 0.06 | 0.04 | 0.076 | 0.06 | 15.7 | 15.4 | 0.58 | 4860 | 4.37 | 0.03 |
| A2018136 | | 4.40 | 153.5 | 8.13 | 4.23 | 0.06 | 0.03 | 0.13 | 0.066 | 0.12 | 17.5 | 5.1 | 0.28 | 3410 | 4.21 | 0.03 |
| A2018137 | | 2.42 | 155.5 | 8.08 | 5.22 | <0.05 | 0.05 | 0.06 | 0.068 | 0.14 | 12.1 | 4.6 | 0.39 | 2850 | 3.59 | 0.02 |
| A2018138 | | 1.96 | 86.2 | 17.05 | 13.45 | 0.14 | 0.17 | 0.16 | 0.080 | 0.09 | 7.1 | 6.7 | 0.78 | 719 | 10.80 | 0.04 |
| A2018139 | | 3.70 | 160.5 | 11.50 | 5.19 | 0.13 | 0.04 | 0.29 | 0.092 | 0.08 | 31.6 | 3.8 | 0.24 | 1320 | 5.08 | 0.02 |
| A2018140 | | 5.25 | 832 | 13.25 | 2.41 | 0.14 | 0.04 | 0.14 | 0.040 | 0.12 | 32.5 | 2.8 | 0.11 | 1410 | 21.2 | 0.03 |
| A2018143 | | 5.47 | 495 | 12.65 | 9.53 | 0.08 | 0.03 | 0.08 | 0.090 | 0.10 | 11.0 | 15.2 | 0.74 | 1310 | 20.4 | 0.03 |
| A2018144 | | 2.76 | 1220 | 6.75 | 10.45 | <0.05 | 0.02 | 0.12 | 0.057 | 0.14 | 6.5 | 14.2 | 1.04 | 714 | 3.70 | 0.03 |
| A2018145 | | 1.83 | 579 | 6.17 | 8.76 | <0.05 | 0.02 | 0.14 | 0.053 | 0.10 | 7.1 | 6.4 | 0.47 | 1200 | 12.40 | 0.03 |
| A2018146 | | 3.39 | 543 | 9.93 | 5.99 | 0.08 | 0.03 | 0.12 | 0.079 | 0.08 | 17.7 | 10.5 | 0.70 | 2210 | 26.2 | 0.03 |
| A2018147 | | 3.55 | 327 | 6.97 | 5.56 | 0.06 | 0.03 | 0.08 | 0.059 | 0.09 | 12.6 | 6.7 | 0.43 | 3360 | 17.20 | 0.04 |
| A2018148 | | 2.89 | 43.7 | 5.88 | 15.95 | <0.05 | 0.08 | 0.04 | 0.061 | 0.08 | 8.7 | 13.4 | 0.34 | 1260 | 3.62 | 0.03 |
| A2018149 | | 3.19 | 45.7 | 5.94 | 17.50 | <0.05 | 0.10 | 0.04 | 0.065 | 0.08 | 9.3 | 14.3 | 0.33 | 1200 | 4.02 | 0.03 |
| A2018150 | | 1.63 | 47.2 | 5.94 | 12.75 | <0.05 | 0.02 | 0.04 | 0.048 | 0.09 | 6.1 | 10.0 | 0.35 | 866 | 4.20 | 0.03 |
| A2018151 | | 2.12 | 16.2 | 5.63 | 3.38 | 0.08 | 0.03 | 1.06 | 0.031 | 0.11 | 0.8 | 1.0 | 0.04 | 38 | 2.38 | 0.03 |
| A2018152 | | 1.04 | 7.6 | 2.54 | 2.00 | <0.05 | 0.02 | 1.05 | 0.022 | 0.14 | 0.7 | 0.4 | 0.01 | 10 | 5.64 | 0.02 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Nb<br>ppm<br>0.05 | ME-MS41<br>Ni<br>ppm<br>0.2 | ME-MS41<br>P<br>ppm<br>10 | ME-MS41<br>Pb<br>ppm<br>0.2 | ME-MS41<br>Rb<br>ppm<br>0.1 | ME-MS41<br>Re<br>ppm<br>0.001 | ME-MS41<br>S<br>%<br>0.01 | ME-MS41<br>Sb<br>ppm<br>0.05 | ME-MS41<br>Sc<br>ppm<br>0.1 | ME-MS41<br>Se<br>ppm<br>0.2 | ME-MS41<br>Sn<br>ppm<br>0.2 | ME-MS41<br>Sr<br>ppm<br>0.2 | ME-MS41<br>Ta<br>ppm<br>0.01 | ME-MS41<br>Te<br>ppm<br>0.01 | ME-MS41<br>Th<br>ppm<br>0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018110 | | 3.86 | 5.4 | 1410 | 11.2 | 15.0 | 0.001 | 0.08 | 0.41 | 5.0 | 1.6 | 1.5 | 31.7 | 0.02 | 0.09 | 0.2 |
| A2018111 | | 2.14 | 5.5 | 1260 | 13.3 | 9.1 | 0.002 | 0.10 | 0.46 | 11.9 | 2.7 | 1.1 | 65.1 | 0.01 | 0.29 | 0.8 |
| A2018112 | | 0.70 | 2.3 | 1160 | 11.4 | 7.7 | <0.001 | 0.22 | 0.50 | 4.5 | 1.3 | 0.6 | 95.8 | <0.01 | 0.11 | 0.3 |
| A2018113 | | 0.24 | 1.5 | 2140 | 13.4 | 6.0 | <0.001 | 0.23 | 0.20 | 11.8 | 1.5 | 0.7 | 59.3 | <0.01 | 0.02 | 1.4 |
| A2018114 | | 13.90 | 16.0 | 2190 | 36.3 | 15.1 | <0.001 | 0.04 | 4.35 | 10.7 | 1.1 | 2.7 | 18.2 | 0.04 | 0.08 | 0.9 |
| A2018115 | | 3.60 | 25.3 | 2180 | 57.3 | 12.2 | <0.001 | 0.04 | 3.85 | 24.8 | 1.9 | 0.9 | 50.3 | 0.04 | 0.09 | 1.4 |
| A2018117 | | 0.27 | 9.5 | 2130 | 189.0 | 7.3 | <0.001 | 0.09 | 2.99 | 8.6 | 1.5 | 0.2 | 37.8 | <0.01 | 0.07 | 1.2 |
| A2018118 | | 1.29 | 26.7 | 2720 | 65.7 | 26.4 | <0.001 | 0.06 | 2.89 | 27.6 | 1.3 | 0.6 | 80.2 | 0.01 | 0.05 | 1.5 |
| A2018119 | | 0.96 | 24.6 | 2430 | 82.0 | 19.0 | <0.001 | 0.06 | 3.19 | 26.8 | 1.2 | 0.6 | 64.9 | <0.01 | 0.05 | 1.4 |
| A2018120 | | 1.55 | 20.3 | 2420 | 78.0 | 21.4 | <0.001 | 0.09 | 3.77 | 19.2 | 1.1 | 0.5 | 54.4 | 0.01 | 0.06 | 0.5 |
| A2018121 | | 1.37 | 24.4 | 2360 | 84.0 | 20.5 | <0.001 | 0.06 | 3.21 | 27.3 | 1.5 | 0.6 | 59.8 | 0.01 | 0.05 | 1.2 |
| A2018122 | | 1.41 | 20.5 | 2670 | 64.5 | 18.6 | <0.001 | 0.10 | 3.14 | 18.7 | 1.1 | 0.4 | 64.7 | 0.01 | 0.05 | 0.9 |
| A2018123 | | 1.44 | 23.3 | 2500 | 76.1 | 19.5 | <0.001 | 0.08 | 3.33 | 23.2 | 1.2 | 0.5 | 68.3 | <0.01 | 0.03 | 1.3 |
| A2018124 | | 1.60 | 20.1 | 1820 | 42.8 | 14.9 | <0.001 | 0.05 | 4.08 | 21.1 | 1.8 | 0.5 | 54.1 | 0.01 | 0.10 | 0.9 |
| A2018125 | | 1.90 | 20.9 | 1630 | 42.3 | 13.2 | <0.001 | 0.05 | 3.14 | 12.7 | 1.5 | 0.5 | 38.0 | <0.01 | 0.14 | 0.4 |
| A2018126 | | 1.13 | 25.8 | 1370 | 30.0 | 10.6 | 0.001 | 0.03 | 2.35 | 15.8 | 1.7 | 0.6 | 45.4 | <0.01 | 0.11 | 1.0 |
| A2018127 | | 0.58 | 23.1 | 1230 | 7.7 | 4.5 | 0.001 | 0.05 | 1.18 | 3.2 | 1.2 | 0.3 | 27.9 | 0.01 | 0.08 | <0.2 |
| A2018128 | | 0.83 | 22.0 | 1470 | 11.9 | 9.2 | <0.001 | 0.04 | 1.77 | 2.8 | 1.0 | 0.5 | 32.3 | <0.01 | 0.11 | <0.2 |
| A2018129 | | 1.69 | 11.4 | 2040 | 23.6 | 19.2 | <0.001 | 0.08 | 8.80 | 5.4 | 1.9 | 0.9 | 46.7 | 0.01 | 0.66 | <0.2 |
| A2018130 | | 3.29 | 9.1 | 3070 | 26.9 | 18.4 | <0.001 | 0.09 | 1.52 | 3.6 | 1.5 | 1.7 | 35.5 | 0.06 | 0.03 | <0.2 |
| A2018131 | | 3.70 | 10.5 | 2740 | 31.5 | 17.9 | <0.001 | 0.10 | 2.74 | 1.4 | 1.1 | 1.7 | 41.6 | 0.01 | 0.04 | <0.2 |
| A2018132 | | 3.71 | 13.1 | 2370 | 298 | 25.9 | <0.001 | 0.13 | 2.89 | 1.3 | 1.2 | 2.1 | 43.0 | 0.02 | 0.13 | <0.2 |
| A2018133 | | 2.48 | 12.4 | 3000 | 28.9 | 15.6 | <0.001 | 0.08 | 3.89 | 3.4 | 1.2 | 1.1 | 39.4 | 0.02 | 0.15 | <0.2 |
| A2018134 | | 2.28 | 11.8 | 2320 | 235 | 12.4 | <0.001 | 0.09 | 2.89 | 8.0 | 2.2 | 0.6 | 38.6 | 0.03 | 0.23 | 0.2 |
| A2018135 | | 11.55 | 12.7 | 2390 | 25.6 | 15.6 | <0.001 | 0.04 | 1.54 | 8.4 | 1.2 | 3.0 | 21.5 | 0.02 | 0.12 | 0.5 |
| A2018136 | | 1.94 | 15.9 | 2020 | 24.3 | 7.9 | <0.001 | 0.07 | 5.84 | 15.0 | 2.0 | 0.6 | 38.0 | 0.03 | 0.40 | 1.0 |
| A2018137 | | 1.45 | 17.4 | 2430 | 19.7 | 9.1 | <0.001 | 0.07 | 3.49 | 13.3 | 1.5 | 0.4 | 40.6 | 0.01 | 0.22 | 0.5 |
| A2018138 | | 8.86 | 8.9 | 3640 | 20.2 | 4.5 | <0.001 | 0.52 | 2.85 | 29.3 | 25.0 | 1.6 | 13.1 | 0.10 | 0.88 | 2.5 |
| A2018139 | | 0.08 | 14.8 | 4000 | 12.5 | 6.0 | <0.001 | 0.07 | 6.56 | 17.9 | 3.1 | 0.3 | 50.9 | <0.01 | 0.48 | 1.7 |
| A2018140 | | 0.11 | 7.3 | 4580 | 23.4 | 9.3 | 0.001 | 0.12 | 4.13 | 21.1 | 14.7 | 0.2 | 11.3 | 0.01 | 0.32 | 1.3 |
| A2018143 | | 2.61 | 9.5 | 3220 | 32.3 | 14.8 | <0.001 | 0.09 | 12.30 | 14.2 | 11.8 | 0.8 | 17.6 | 0.02 | 0.30 | 0.7 |
| A2018144 | | 2.88 | 9.3 | 1840 | 16.5 | 25.4 | <0.001 | 0.03 | 22.1 | 8.9 | 1.8 | 0.9 | 11.8 | <0.01 | 0.13 | 0.5 |
| A2018145 | | 2.51 | 8.9 | 2670 | 21.9 | 17.8 | <0.001 | 0.07 | 21.4 | 4.7 | 2.7 | 1.0 | 19.2 | <0.01 | 0.15 | <0.2 |
| A2018146 | | 1.17 | 16.3 | 2970 | 35.3 | 6.4 | 0.001 | 0.17 | 4.17 | 19.1 | 10.0 | 0.5 | 34.2 | 0.02 | 0.32 | 0.3 |
| A2018147 | | 2.33 | 12.5 | 2350 | 28.3 | 25.0 | 0.005 | 0.18 | 4.52 | 5.2 | 7.3 | 0.7 | 77.6 | 0.02 | 0.21 | <0.2 |
| A2018148 | | 14.00 | 8.2 | 1990 | 21.0 | 17.7 | <0.001 | 0.03 | 1.21 | 4.6 | 0.8 | 2.8 | 9.2 | 0.02 | 0.11 | 0.9 |
| A2018149 | | 15.55 | 8.8 | 1970 | 22.7 | 19.6 | <0.001 | 0.03 | 1.33 | 5.0 | 0.8 | 3.3 | 10.1 | 0.02 | 0.11 | 1.0 |
| A2018150 | | 8.71 | 8.2 | 1960 | 17.8 | 12.6 | <0.001 | 0.03 | 1.11 | 4.3 | 0.6 | 2.1 | 11.6 | 0.01 | 0.17 | 0.4 |
| A2018151 | | 0.16 | 0.8 | 310 | 10.2 | 6.5 | 0.002 | 0.19 | 3.57 | 2.4 | 5.4 | 0.5 | 13.6 | <0.01 | 0.45 | 0.8 |
| A2018152 | | <0.05 | 0.5 | 180 | 18.8 | 7.3 | 0.001 | 0.23 | 2.01 | 1.2 | 11.2 | 0.5 | 19.8 | <0.01 | 0.70 | 0.7 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149168

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018110 | | 0.046 | 0.26 | 0.84 | 73 | 0.10 | 21.2 | 85 | 1.5 |
| A2018111 | | 0.036 | 0.68 | 0.79 | 88 | 0.05 | 32.9 | 104 | 3.9 |
| A2018112 | | 0.008 | 0.34 | 0.46 | 64 | <0.05 | 10.70 | 69 | 1.0 |
| A2018113 | | 0.075 | 0.54 | 0.45 | 70 | <0.05 | 21.1 | 85 | 2.3 |
| A2018114 | | 0.078 | 0.17 | 0.56 | 205 | 0.50 | 10.00 | 151 | 4.7 |
| A2018115 | | 0.023 | 0.26 | 0.59 | 210 | 0.31 | 29.0 | 188 | 3.0 |
| A2018117 | | <0.005 | 0.36 | 0.29 | 48 | 0.07 | 19.05 | 128 | 1.1 |
| A2018118 | | 0.151 | 0.42 | 0.54 | 279 | 0.29 | 19.30 | 297 | 6.8 |
| A2018119 | | 0.142 | 0.34 | 0.48 | 265 | 0.29 | 19.25 | 267 | 5.9 |
| A2018120 | | 0.093 | 0.27 | 0.44 | 224 | 0.28 | 19.20 | 238 | 3.4 |
| A2018121 | | 0.140 | 0.35 | 0.47 | 265 | 0.30 | 19.80 | 293 | 5.7 |
| A2018122 | | 0.116 | 0.29 | 0.40 | 220 | 0.28 | 15.80 | 248 | 4.7 |
| A2018123 | | 0.127 | 0.33 | 0.46 | 238 | 0.31 | 17.60 | 260 | 5.9 |
| A2018124 | | 0.108 | 0.21 | 0.51 | 199 | 0.25 | 23.0 | 185 | 3.7 |
| A2018125 | | 0.082 | 0.15 | 0.52 | 162 | 0.21 | 18.80 | 187 | 2.0 |
| A2018126 | | 0.112 | 0.18 | 0.50 | 159 | 0.17 | 21.5 | 161 | 2.8 |
| A2018127 | | 0.055 | 0.05 | 0.39 | 104 | 0.12 | 6.04 | 103 | <0.5 |
| A2018128 | | 0.026 | 0.14 | 0.39 | 108 | 0.15 | 6.84 | 118 | <0.5 |
| A2018129 | | 0.029 | 0.18 | 0.44 | 157 | 0.62 | 14.30 | 157 | <0.5 |
| A2018130 | | 0.012 | 0.14 | 0.50 | 136 | 0.16 | 30.7 | 164 | 0.8 |
| A2018131 | | 0.026 | 0.13 | 0.59 | 113 | 0.15 | 10.90 | 160 | 0.9 |
| A2018132 | | 0.028 | 0.15 | 0.69 | 124 | 0.19 | 11.25 | 290 | 0.8 |
| A2018133 | | 0.017 | 0.21 | 0.42 | 110 | 0.27 | 11.25 | 166 | 0.6 |
| A2018134 | | 0.009 | 0.19 | 0.38 | 143 | 0.31 | 14.05 | 345 | 1.3 |
| A2018135 | | 0.124 | 0.38 | 0.78 | 185 | 0.28 | 10.50 | 145 | 3.5 |
| A2018136 | | 0.010 | 0.33 | 0.41 | 140 | 0.21 | 23.8 | 137 | 1.7 |
| A2018137 | | 0.006 | 0.22 | 0.34 | 173 | 0.17 | 13.40 | 127 | 1.5 |
| A2018138 | | 0.057 | 0.12 | 0.58 | 242 | 0.61 | 7.48 | 36 | 15.4 |
| A2018139 | | <0.005 | 0.34 | 0.53 | 198 | 0.22 | 32.0 | 46 | 1.6 |
| A2018140 | | <0.005 | 0.16 | 0.65 | 86 | 0.14 | 56.3 | 65 | 2.0 |
| A2018143 | | 0.036 | 0.20 | 0.52 | 212 | 0.43 | 12.70 | 83 | 1.3 |
| A2018144 | | 0.116 | 0.20 | 0.39 | 206 | 0.20 | 6.09 | 109 | 1.3 |
| A2018145 | | 0.059 | 0.13 | 0.44 | 160 | 0.20 | 5.46 | 88 | 0.8 |
| A2018146 | | 0.018 | 0.14 | 0.55 | 152 | 0.42 | 21.5 | 66 | 0.9 |
| A2018147 | | 0.021 | 0.16 | 0.49 | 120 | 0.24 | 13.35 | 87 | 0.9 |
| A2018148 | | 0.115 | 0.14 | 0.47 | 123 | 0.28 | 5.13 | 144 | 5.6 |
| A2018149 | | 0.121 | 0.16 | 0.52 | 124 | 0.32 | 5.34 | 143 | 7.2 |
| A2018150 | | 0.071 | 0.11 | 0.31 | 133 | 0.21 | 3.18 | 138 | 1.2 |
| A2018151 | | <0.005 | 2.77 | 0.17 | 35 | <0.05 | 1.49 | 12 | 1.0 |
| A2018152 | | <0.005 | 3.43 | 0.07 | 14 | <0.05 | 0.72 | 3 | 0.8 |

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

ALS Minerals

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149168

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

NSS is non-sufficient sample.

Applies to Method: ALL METHODS

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

Applies to Method: ME-MS41

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method: Au-ICP21 LOG-22 ME-MS41 SCR-41 WEI-21

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

## CERTIFICATE VA16149169

Project: HANK

This report is for 168 Soil samples submitted to our lab in Terrace, BC, Canada on 1-SEP-2016.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE BLADY | CHRIS PAUL | |

## SAMPLE PREPARATION

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

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Au-ICP21 | Au 30g FA ICP-AES Finish | ICP-AES |
| ME-MS41 | Ultra Trace Aqua Regia ICP-MS | |

To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**ATTN: CHRIS PAUL**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**

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

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

**Signature:**
Colin Ramshaw, Vancouver Laboratory Manager

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg<br>0.02 | Au-ICP21<br>Au<br>ppm<br>0.001 | ME-MS41<br>Ag<br>ppm<br>0.01 | ME-MS41<br>Al<br>%<br>0.01 | ME-MS41<br>As<br>ppm<br>0.1 | ME-MS41<br>Au<br>ppm<br>0.2 | ME-MS41<br>B<br>ppm<br>10 | ME-MS41<br>Ba<br>ppm<br>10 | ME-MS41<br>Be<br>ppm<br>0.05 | ME-MS41<br>Bi<br>ppm<br>0.01 | ME-MS41<br>Ca<br>%<br>0.01 | ME-MS41<br>Cd<br>ppm<br>0.01 | ME-MS41<br>Ce<br>ppm<br>0.02 | ME-MS41<br>Co<br>ppm<br>0.1 | ME-MS41<br>Cr<br>ppm<br>1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018153 | | 0.70 | 0.022 | 0.29 | 0.40 | 65.8 | <0.2 | <10 | 450 | 0.05 | 2.50 | 0.01 | 0.02 | 0.94 | 0.3 | 1 |
| A2018154 | | 0.32 | 0.006 | 0.15 | 3.24 | 17.5 | <0.2 | <10 | 200 | 0.83 | 0.08 | 1.43 | 0.12 | 34.7 | 31.4 | 31 |
| A2018155 | | 0.36 | 0.116 | 3.37 | 0.80 | 269 | <0.2 | 10 | 240 | 0.91 | 0.18 | 0.54 | 0.81 | 35.2 | 26.2 | 11 |
| A2018156 | | 0.36 | 0.028 | 0.73 | 1.33 | 151.0 | <0.2 | 10 | 310 | 0.84 | 0.16 | 1.19 | 0.98 | 22.2 | 28.7 | 11 |
| A2018157 | | 0.32 | 0.031 | 1.19 | 1.62 | 94.9 | <0.2 | 10 | 180 | 0.90 | 0.13 | 1.47 | 0.71 | 26.6 | 42.2 | 27 |
| A2018158 | | 0.40 | 0.221 | 3.56 | 0.91 | 266 | <0.2 | 10 | 190 | 1.01 | 0.17 | 0.76 | 1.05 | 37.1 | 29.9 | 14 |
| A2018159 | | 0.48 | 0.178 | 3.50 | 0.93 | 263 | <0.2 | 10 | 220 | 0.99 | 0.17 | 0.77 | 1.01 | 39.3 | 31.5 | 14 |
| A2018160 | | 0.50 | 0.153 | 2.33 | 1.65 | 314 | <0.2 | <10 | 230 | 0.99 | 0.13 | 0.84 | 0.97 | 35.4 | 40.1 | 31 |
| A2018161 | | 0.56 | 0.107 | 2.04 | 1.76 | 256 | <0.2 | 10 | 230 | 0.96 | 0.14 | 0.75 | 0.78 | 33.0 | 40.9 | 33 |
| A2018162 | | 0.36 | 0.001 | 0.07 | 1.09 | 6.6 | <0.2 | <10 | 400 | 0.69 | 0.13 | 0.29 | 0.19 | 34.3 | 7.5 | 2 |
| A2018163 | | 0.32 | 0.188 | 2.68 | 1.78 | 395 | <0.2 | 10 | 280 | 1.11 | 0.16 | 0.74 | 1.13 | 38.2 | 43.1 | 31 |
| A2018164 | | 0.42 | 0.385 | 5.83 | 0.75 | 467 | 0.3 | 10 | 390 | 1.48 | 0.44 | 0.65 | 7.56 | 48.7 | 43.5 | 5 |
| A2018165 | | 0.38 | 0.050 | 0.97 | 2.23 | 109.0 | <0.2 | 10 | 290 | 1.23 | 0.17 | 0.42 | 0.67 | 37.4 | 28.5 | 16 |
| A2018166 | | 0.34 | 0.053 | 0.74 | 1.58 | 129.5 | <0.2 | <10 | 190 | 0.98 | 0.17 | 0.11 | 0.32 | 21.2 | 23.4 | 17 |
| A2018167 | | 0.36 | 0.052 | 1.02 | 2.10 | 188.0 | <0.2 | <10 | 360 | 1.25 | 0.12 | 0.39 | 0.28 | 30.8 | 29.4 | 22 |
| A2018168 | | 0.40 | 0.024 | 0.85 | 2.99 | 41.5 | <0.2 | <10 | 300 | 1.16 | 0.10 | 0.83 | 0.20 | 39.5 | 35.5 | 28 |
| A2018169 | | 0.26 | 0.006 | 0.26 | 2.92 | 45.6 | <0.2 | <10 | 110 | 1.29 | 0.15 | 0.33 | 0.22 | 26.1 | 24.7 | 28 |
| A2018170 | | 0.42 | 0.008 | 0.63 | 2.75 | 92.0 | <0.2 | <10 | 110 | 1.32 | 0.17 | 0.24 | 0.18 | 30.0 | 23.5 | 19 |
| A2018205 | | 0.58 | 0.009 | 0.48 | 3.47 | 78.4 | <0.2 | <10 | 300 | 1.53 | 0.16 | 0.45 | 0.40 | 44.9 | 58.4 | 19 |
| A2018206 | | 0.30 | 0.010 | 0.54 | 1.49 | 34.6 | <0.2 | <10 | 150 | 0.45 | 0.17 | 0.10 | 0.17 | 12.95 | 11.3 | 14 |
| A2018207 | | 0.44 | 0.019 | 1.98 | 1.91 | 48.6 | <0.2 | <10 | 180 | 0.53 | 0.30 | 0.18 | 0.24 | 14.50 | 20.2 | 17 |
| A2018208 | | 0.44 | 0.009 | 0.58 | 1.52 | 40.1 | <0.2 | <10 | 100 | 0.30 | 0.24 | 0.09 | 0.11 | 14.30 | 8.2 | 13 |
| A2018209 | | 0.44 | 0.023 | 0.54 | 2.53 | 21.1 | <0.2 | <10 | 200 | 0.47 | 0.18 | 0.23 | 0.17 | 12.10 | 21.3 | 51 |
| A2018210 | | 0.48 | 0.427 | 1.37 | 2.32 | 34.5 | 0.2 | <10 | 210 | 0.93 | 0.42 | 1.31 | 0.27 | 40.1 | 22.9 | 22 |
| A2018211 | | 0.52 | 0.052 | 1.56 | 2.38 | 68.4 | <0.2 | 10 | 260 | 0.75 | 0.19 | 1.36 | 1.23 | 26.5 | 33.9 | 27 |
| A2018212 | | 0.52 | 0.022 | 0.84 | 2.75 | 34.1 | <0.2 | <10 | 210 | 0.59 | 0.32 | 0.29 | 0.52 | 16.10 | 12.8 | 22 |
| A2018213 | | 0.50 | 0.027 | 0.85 | 2.87 | 33.4 | <0.2 | <10 | 200 | 0.57 | 0.30 | 0.30 | 0.49 | 15.40 | 12.3 | 23 |
| A2018214 | | 0.60 | 0.010 | 0.46 | 2.74 | 26.8 | <0.2 | <10 | 390 | 0.54 | 0.20 | 0.57 | 0.64 | 16.55 | 15.1 | 25 |
| A2018215 | | 0.36 | 0.026 | 0.73 | 2.59 | 21.9 | <0.2 | 10 | 240 | 0.69 | 0.21 | 1.11 | 1.13 | 26.1 | 19.9 | 27 |
| A2018216 | | 0.60 | 0.054 | 0.51 | 2.11 | 52.5 | <0.2 | 10 | 220 | 0.73 | 0.19 | 1.09 | 0.48 | 26.5 | 23.4 | 40 |
| A2018253 | | 0.52 | 0.125 | 0.68 | 1.80 | 90.1 | 0.2 | <10 | 760 | 0.87 | 0.37 | 0.32 | 0.42 | 48.6 | 21.8 | 10 |
| A2018254 | | 0.60 | 0.184 | 0.57 | 1.83 | 98.3 | <0.2 | <10 | 750 | 1.02 | 0.40 | 0.32 | 0.44 | 50.4 | 21.7 | 9 |
| A2018255 | | 0.50 | 0.093 | 0.53 | 2.49 | 54.9 | <0.2 | <10 | 490 | 1.23 | 0.40 | 0.30 | 0.23 | 41.0 | 16.3 | 9 |
| A2018256 | | 0.50 | 0.011 | 1.29 | 3.22 | 19.6 | <0.2 | <10 | 310 | 2.82 | 0.29 | 0.16 | 0.11 | 71.1 | 5.7 | 13 |
| A2018257 | | 0.54 | 0.028 | 0.78 | 2.98 | 62.5 | <0.2 | <10 | 320 | 2.18 | 0.36 | 0.10 | 0.09 | 86.1 | 7.5 | 10 |
| A2018258 | | 0.84 | 0.002 | 0.09 | 2.60 | 6.0 | <0.2 | 10 | 730 | 0.90 | 0.19 | 1.43 | 0.36 | 37.7 | 23.8 | 1 |
| A2018259 | | 0.68 | 0.001 | 0.09 | 2.81 | 7.2 | <0.2 | <10 | 700 | 1.00 | 0.12 | 1.34 | 0.33 | 40.3 | 28.6 | 1 |
| A2018260 | | 0.74 | <0.001 | 0.11 | 2.55 | 10.1 | <0.2 | <10 | 250 | 0.69 | 0.04 | 0.68 | 0.69 | 38.7 | 46.3 | <1 |
| A2018261 | | 0.70 | 0.001 | 0.12 | 1.21 | 35.0 | <0.2 | <10 | 350 | 0.32 | 0.17 | 0.18 | 0.05 | 16.50 | 7.5 | <1 |
| A2018262 | | 0.64 | 0.001 | 0.10 | 1.70 | 13.6 | <0.2 | <10 | 490 | 1.04 | 0.21 | 0.70 | 0.16 | 29.4 | 15.8 | <1 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Cs ppm 0.05 | ME-MS41 Cu ppm 0.2 | ME-MS41 Fe % 0.01 | ME-MS41 Ga ppm 0.05 | ME-MS41 Ge ppm 0.05 | ME-MS41 Hf ppm 0.02 | ME-MS41 Hg ppm 0.01 | ME-MS41 In ppm 0.005 | ME-MS41 K % 0.01 | ME-MS41 La ppm 0.2 | ME-MS41 Li ppm 0.1 | ME-MS41 Mg % 0.01 | ME-MS41 Mn ppm 5 | ME-MS41 Mo ppm 0.05 | ME-MS41 Na % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018153 | | 0.89 | 8.8 | 4.73 | 3.10 | 0.06 | 0.02 | 2.48 | 0.043 | 0.18 | 0.5 | 0.4 | 0.02 | 8 | 13.35 | <0.01 |
| A2018154 | | 3.01 | 70.7 | 7.08 | 16.80 | 0.15 | 0.26 | 0.04 | 0.051 | 0.23 | 17.7 | 19.1 | 2.45 | 1360 | 0.78 | 0.01 |
| A2018155 | | 2.31 | 114.5 | 8.43 | 2.93 | 0.07 | 0.02 | 0.12 | 0.065 | 0.13 | 18.2 | 3.1 | 0.23 | 2120 | 4.79 | 0.01 |
| A2018156 | | 6.83 | 105.0 | 6.84 | 6.31 | <0.05 | 0.02 | 0.06 | 0.062 | 0.21 | 10.2 | 8.4 | 0.42 | 3260 | 3.49 | 0.01 |
| A2018157 | | 4.22 | 168.0 | 7.67 | 7.93 | 0.07 | 0.08 | 0.13 | 0.055 | 0.12 | 13.4 | 10.8 | 1.14 | 2370 | 2.38 | 0.01 |
| A2018158 | | 2.29 | 136.5 | 8.36 | 3.57 | 0.07 | 0.05 | 0.19 | 0.065 | 0.12 | 20.8 | 3.4 | 0.31 | 2400 | 4.89 | 0.01 |
| A2018159 | | 2.62 | 145.5 | 8.67 | 3.76 | 0.08 | 0.05 | 0.16 | 0.066 | 0.13 | 21.9 | 3.7 | 0.37 | 2830 | 4.62 | 0.01 |
| A2018160 | | 4.86 | 159.0 | 8.43 | 8.37 | 0.09 | 0.09 | 0.08 | 0.066 | 0.13 | 17.9 | 13.2 | 1.28 | 2300 | 4.43 | 0.02 |
| A2018161 | | 5.52 | 160.0 | 8.56 | 8.70 | 0.09 | 0.09 | 0.08 | 0.062 | 0.13 | 16.9 | 13.7 | 1.37 | 2250 | 3.88 | 0.02 |
| A2018162 | | 1.28 | 12.8 | 2.42 | 4.44 | <0.05 | 0.04 | 0.42 | 0.034 | 0.15 | 16.7 | 5.9 | 0.11 | 1810 | 0.70 | 0.01 |
| A2018163 | | 5.72 | 185.0 | 9.79 | 8.29 | 0.09 | 0.06 | 0.13 | 0.073 | 0.14 | 19.2 | 12.6 | 1.24 | 2880 | 5.35 | 0.01 |
| A2018164 | | 4.83 | 300 | 11.40 | 2.69 | 0.09 | 0.05 | 0.26 | 0.060 | 0.15 | 25.7 | 2.2 | 0.18 | 5490 | 2.30 | 0.01 |
| A2018165 | | 8.26 | 125.5 | 8.42 | 9.95 | 0.06 | 0.02 | 0.05 | 0.079 | 0.13 | 18.6 | 11.4 | 0.46 | 2840 | 3.04 | 0.01 |
| A2018166 | | 4.69 | 102.0 | 8.19 | 6.13 | <0.05 | 0.02 | 0.04 | 0.076 | 0.10 | 10.4 | 3.8 | 0.11 | 1640 | 3.84 | <0.01 |
| A2018167 | | 3.16 | 123.0 | 8.23 | 9.99 | 0.05 | 0.02 | 0.06 | 0.081 | 0.13 | 14.6 | 11.6 | 0.48 | 3300 | 2.46 | 0.01 |
| A2018168 | | 7.84 | 156.5 | 8.44 | 19.10 | 0.09 | 0.08 | 0.04 | 0.097 | 0.07 | 25.4 | 18.4 | 1.66 | 2620 | 1.74 | 0.01 |
| A2018169 | | 6.73 | 80.8 | 8.00 | 16.90 | <0.05 | 0.09 | 0.05 | 0.107 | 0.05 | 11.4 | 20.8 | 1.40 | 1120 | 2.69 | 0.02 |
| A2018170 | | 4.76 | 97.0 | 7.79 | 15.10 | <0.05 | 0.03 | 0.04 | 0.094 | 0.05 | 13.2 | 16.6 | 0.70 | 1460 | 2.22 | 0.02 |
| A2018205 | | 4.25 | 169.0 | 7.74 | 15.70 | 0.05 | 0.03 | 0.05 | 0.100 | 0.13 | 15.8 | 18.9 | 0.83 | 3080 | 3.87 | 0.01 |
| A2018206 | | 1.27 | 51.9 | 6.18 | 15.50 | <0.05 | 0.05 | 0.02 | 0.045 | 0.08 | 6.8 | 3.6 | 0.18 | 668 | 3.80 | 0.01 |
| A2018207 | | 2.33 | 92.1 | 7.15 | 10.55 | <0.05 | 0.02 | 0.05 | 0.061 | 0.09 | 7.3 | 7.6 | 0.30 | 1660 | 4.36 | 0.01 |
| A2018208 | | 1.60 | 47.8 | 5.70 | 15.00 | <0.05 | 0.06 | 0.05 | 0.040 | 0.06 | 7.5 | 2.3 | 0.14 | 369 | 4.46 | <0.01 |
| A2018209 | | 2.37 | 585 | 7.89 | 13.95 | <0.05 | 0.09 | 0.05 | 0.076 | 0.12 | 6.3 | 13.5 | 1.26 | 758 | 6.77 | 0.01 |
| A2018210 | | 6.75 | 4780 | 7.03 | 9.40 | 0.09 | 0.11 | 0.14 | 0.073 | 0.18 | 26.5 | 31.7 | 1.15 | 1020 | 5.51 | 0.02 |
| A2018211 | | 4.35 | 553 | 7.35 | 10.25 | 0.14 | 0.06 | 0.21 | 0.057 | 0.13 | 16.3 | 87.4 | 1.09 | 2480 | 9.00 | 0.02 |
| A2018212 | | 1.33 | 94.5 | 5.44 | 9.29 | <0.05 | <0.02 | 0.14 | 0.056 | 0.06 | 7.9 | 11.2 | 0.52 | 691 | 2.76 | 0.01 |
| A2018213 | | 1.42 | 94.0 | 5.50 | 9.16 | <0.05 | 0.02 | 0.13 | 0.062 | 0.07 | 7.8 | 10.5 | 0.53 | 650 | 2.81 | 0.01 |
| A2018214 | | 2.07 | 61.8 | 5.36 | 10.30 | <0.05 | <0.02 | 0.07 | 0.055 | 0.10 | 8.6 | 14.1 | 0.76 | 945 | 2.12 | 0.01 |
| A2018215 | | 1.56 | 141.5 | 4.72 | 8.44 | 0.05 | 0.03 | 0.15 | 0.053 | 0.11 | 13.5 | 36.2 | 0.92 | 880 | 3.87 | 0.02 |
| A2018216 | | 3.02 | 962 | 6.11 | 7.64 | 0.06 | 0.05 | 0.10 | 0.050 | 0.11 | 15.9 | 35.7 | 1.21 | 1280 | 5.07 | 0.02 |
| A2018253 | | 0.94 | 38.7 | 6.85 | 6.87 | 0.07 | 0.02 | 0.33 | 0.049 | 0.12 | 21.9 | 9.5 | 0.51 | 2440 | 2.87 | 0.01 |
| A2018254 | | 0.86 | 39.6 | 7.00 | 7.00 | 0.09 | 0.02 | 1.85 | 0.050 | 0.11 | 21.7 | 9.0 | 0.50 | 2500 | 3.47 | 0.02 |
| A2018255 | | 1.33 | 35.4 | 5.77 | 8.46 | 0.10 | 0.03 | 0.40 | 0.055 | 0.10 | 32.1 | 13.4 | 0.37 | 1340 | 3.07 | 0.02 |
| A2018256 | | 1.39 | 17.4 | 4.78 | 19.10 | 0.11 | 0.34 | 0.16 | 0.088 | 0.08 | 43.4 | 12.1 | 0.21 | 734 | 3.09 | 0.06 |
| A2018257 | | 1.63 | 22.5 | 5.57 | 16.20 | 0.09 | 0.06 | 0.17 | 0.070 | 0.08 | 35.9 | 10.9 | 0.27 | 834 | 3.38 | 0.02 |
| A2018258 | | 2.09 | 17.2 | 6.39 | 9.95 | 0.10 | 0.21 | 0.10 | 0.066 | 0.26 | 17.6 | 17.7 | 1.09 | 1300 | 1.28 | 0.05 |
| A2018259 | | 1.83 | 18.3 | 7.47 | 12.45 | 0.09 | 0.28 | 0.12 | 0.090 | 0.21 | 18.9 | 21.0 | 1.40 | 1800 | 5.80 | 0.05 |
| A2018260 | | 0.24 | 21.4 | 7.95 | 9.95 | 0.08 | 0.17 | 0.04 | 0.080 | 0.08 | 18.1 | 21.8 | 1.55 | 1520 | 1.44 | 0.04 |
| A2018261 | | 0.92 | 13.8 | 7.19 | 3.63 | <0.05 | 0.05 | 1.03 | 0.046 | 0.21 | 8.0 | 3.9 | 0.20 | 518 | 1.61 | 0.02 |
| A2018262 | | 0.84 | 15.7 | 4.68 | 4.73 | 0.05 | 0.07 | 0.45 | 0.054 | 0.22 | 14.4 | 6.9 | 0.39 | 884 | 0.90 | 0.02 |

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

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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Nb | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.05 | 0.2 | 10 | 0.2 | 0.1 | 0.001 | 0.01 | 0.05 | 0.1 | 0.2 | 0.2 | 0.2 | 0.01 | 0.01 | 0.2 |
| A2018153 | | <0.05 | 0.8 | 140 | 38.4 | 8.3 | 0.004 | 0.29 | 2.52 | 1.3 | 21.0 | 0.6 | 21.1 | <0.01 | 1.28 | 0.7 |
| A2018154 | | 1.86 | 20.1 | 2460 | 15.9 | 13.0 | 0.003 | 0.04 | 0.68 | 22.4 | 1.9 | 0.6 | 68.0 | 0.01 | 0.06 | 1.9 |
| A2018155 | | 0.69 | 14.8 | 2000 | 105.5 | 6.9 | 0.001 | 0.13 | 9.81 | 10.4 | 2.6 | 0.2 | 33.2 | 0.01 | 1.16 | 0.9 |
| A2018156 | | 1.34 | 12.9 | 1960 | 66.0 | 21.6 | <0.001 | 0.12 | 7.73 | 5.5 | 1.4 | 0.5 | 48.5 | 0.01 | 0.39 | 0.2 |
| A2018157 | | 1.54 | 31.7 | 3020 | 49.7 | 9.9 | 0.001 | 0.25 | 8.03 | 11.9 | 2.3 | 0.5 | 65.2 | 0.02 | 0.33 | 0.4 |
| A2018158 | | 0.76 | 19.1 | 1960 | 113.0 | 6.6 | 0.001 | 0.16 | 10.00 | 13.2 | 2.7 | 0.3 | 42.9 | 0.01 | 1.24 | 1.0 |
| A2018159 | | 0.53 | 20.3 | 1930 | 214 | 7.0 | <0.001 | 0.20 | 9.97 | 15.1 | 2.9 | 0.2 | 45.7 | 0.01 | 1.19 | 1.2 |
| A2018160 | | 0.41 | 28.1 | 2220 | 127.5 | 8.4 | 0.001 | 0.19 | 11.60 | 19.1 | 1.9 | 0.4 | 51.4 | 0.01 | 0.81 | 1.6 |
| A2018161 | | 0.33 | 28.0 | 2240 | 84.8 | 9.3 | 0.001 | 0.22 | 9.62 | 19.1 | 1.9 | 0.4 | 47.2 | <0.01 | 0.65 | 1.6 |
| A2018162 | | 0.47 | 1.6 | 2050 | 23.3 | 8.8 | <0.001 | 0.06 | 1.20 | 1.2 | 0.5 | 0.4 | 15.7 | <0.01 | 0.03 | 0.8 |
| A2018163 | | 0.58 | 29.4 | 2090 | 129.5 | 9.2 | 0.001 | 0.17 | 12.55 | 20.2 | 2.1 | 0.5 | 48.0 | 0.01 | 1.03 | 1.6 |
| A2018164 | | 0.39 | 14.3 | 2940 | 1300 | 7.6 | <0.001 | 0.23 | 10.95 | 20.6 | 2.3 | 0.3 | 41.5 | 0.01 | 0.38 | 1.2 |
| A2018165 | | 3.58 | 15.2 | 2500 | 69.8 | 18.5 | <0.001 | 0.04 | 6.78 | 11.9 | 1.4 | 1.2 | 31.0 | 0.02 | 0.19 | 0.5 |
| A2018166 | | 1.81 | 16.5 | 2300 | 37.2 | 19.4 | <0.001 | 0.03 | 5.64 | 7.2 | 1.0 | 0.8 | 14.0 | 0.02 | 0.17 | 0.2 |
| A2018167 | | 1.88 | 18.3 | 2880 | 34.0 | 15.2 | <0.001 | 0.06 | 2.48 | 6.2 | 1.1 | 1.2 | 23.6 | 0.01 | 0.08 | <0.2 |
| A2018168 | | 5.25 | 19.4 | 1920 | 19.3 | 11.5 | <0.001 | 0.05 | 1.73 | 35.8 | 2.1 | 1.8 | 46.6 | 0.01 | 0.06 | 0.7 |
| A2018169 | | 8.40 | 16.1 | 1960 | 18.5 | 9.3 | <0.001 | 0.06 | 1.92 | 11.9 | 0.9 | 1.9 | 20.0 | 0.01 | 0.07 | 0.5 |
| A2018170 | | 7.99 | 14.5 | 2110 | 16.4 | 9.4 | <0.001 | 0.07 | 2.01 | 4.8 | 1.0 | 2.4 | 16.6 | 0.03 | 0.05 | <0.2 |
| A2018205 | | 5.46 | 14.9 | 2710 | 27.2 | 22.9 | <0.001 | 0.04 | 1.74 | 13.0 | 1.3 | 1.7 | 24.0 | 0.01 | 0.17 | 0.6 |
| A2018206 | | 11.00 | 7.8 | 2320 | 22.6 | 9.0 | <0.001 | 0.03 | 1.37 | 4.2 | 0.5 | 2.5 | 9.7 | 0.01 | 0.09 | 0.4 |
| A2018207 | | 5.03 | 9.3 | 2870 | 28.6 | 18.2 | <0.001 | 0.04 | 1.77 | 7.4 | 1.2 | 1.4 | 14.8 | 0.01 | 0.21 | 0.4 |
| A2018208 | | 10.80 | 6.2 | 3110 | 24.1 | 9.9 | <0.001 | 0.03 | 1.43 | 4.2 | 0.7 | 2.6 | 8.8 | 0.01 | 0.13 | 0.6 |
| A2018209 | | 4.55 | 12.6 | 1960 | 16.5 | 15.7 | 0.001 | 0.02 | 1.07 | 14.3 | 1.5 | 1.3 | 11.3 | <0.01 | 0.10 | 1.1 |
| A2018210 | | 6.14 | 19.6 | 1360 | 15.0 | 22.1 | 0.004 | 0.07 | 2.55 | 19.7 | 3.6 | 1.2 | 48.5 | 0.02 | 0.21 | 0.9 |
| A2018211 | | 3.15 | 15.2 | 1620 | 17.5 | 15.8 | 0.007 | 0.12 | 2.23 | 13.6 | 4.1 | 0.9 | 113.5 | 0.02 | 0.16 | 0.3 |
| A2018212 | | 2.75 | 12.5 | 1180 | 34.1 | 10.5 | 0.001 | 0.05 | 1.15 | 6.7 | 1.1 | 0.7 | 24.2 | 0.01 | 0.09 | 0.4 |
| A2018213 | | 2.83 | 12.5 | 1180 | 32.4 | 10.6 | 0.001 | 0.06 | 1.17 | 6.5 | 1.0 | 0.7 | 24.1 | 0.01 | 0.08 | 0.4 |
| A2018214 | | 2.00 | 17.1 | 1360 | 26.2 | 13.6 | 0.001 | 0.06 | 1.01 | 7.2 | 0.8 | 0.9 | 41.1 | <0.01 | 0.05 | 0.2 |
| A2018215 | | 1.94 | 23.8 | 1380 | 29.5 | 10.8 | 0.024 | 0.18 | 1.56 | 8.3 | 5.4 | 0.6 | 109.5 | <0.01 | 0.08 | 0.3 |
| A2018216 | | 2.53 | 19.5 | 1620 | 16.0 | 13.7 | 0.004 | 0.05 | 2.48 | 11.0 | 2.3 | 0.7 | 73.4 | 0.01 | 0.14 | 0.6 |
| A2018253 | | 1.77 | 5.5 | 2050 | 20.5 | 6.8 | 0.002 | 0.07 | 2.83 | 7.2 | 2.0 | 0.8 | 32.3 | 0.02 | 0.23 | 0.9 |
| A2018254 | | 2.00 | 6.1 | 2090 | 21.7 | 6.0 | 0.001 | 0.07 | 2.94 | 6.7 | 2.0 | 0.8 | 34.3 | 0.02 | 0.22 | 0.9 |
| A2018255 | | 2.50 | 4.4 | 1480 | 18.8 | 10.4 | 0.002 | 0.07 | 2.03 | 2.2 | 2.8 | 1.2 | 57.7 | 0.01 | 0.15 | 0.2 |
| A2018256 | | 27.4 | 6.5 | 1210 | 13.3 | 9.0 | 0.002 | 0.11 | 1.30 | 2.7 | 3.1 | 5.5 | 20.1 | 0.30 | 0.02 | 0.8 |
| A2018257 | | 13.25 | 4.9 | 1140 | 18.7 | 14.0 | <0.001 | 0.10 | 1.69 | 1.2 | 2.4 | 4.3 | 16.4 | 0.07 | 0.06 | 0.2 |
| A2018258 | | 0.18 | 1.0 | 2050 | 9.3 | 8.3 | 0.004 | 0.24 | 0.21 | 18.0 | 2.0 | 0.9 | 189.5 | <0.01 | 0.20 | 1.8 |
| A2018259 | | 0.14 | 1.4 | 2000 | 9.7 | 7.3 | 0.003 | 0.28 | 0.20 | 21.2 | 2.0 | 1.1 | 108.0 | <0.01 | 0.21 | 1.7 |
| A2018260 | | 0.22 | 1.6 | 2440 | 7.4 | 1.5 | 0.001 | 0.27 | 0.19 | 23.0 | 2.5 | 0.7 | 69.1 | 0.01 | 2.26 | 1.8 |
| A2018261 | | <0.05 | 0.5 | 2980 | 12.7 | 4.1 | 0.011 | 0.49 | 0.22 | 5.3 | 2.0 | 0.7 | 67.5 | <0.01 | 0.28 | 1.8 |
| A2018262 | | 0.05 | 0.7 | 1790 | 10.5 | 4.9 | 0.001 | 0.28 | 0.16 | 10.1 | 1.9 | 0.6 | 161.5 | <0.01 | 0.16 | 2.0 |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018153 | | <0.005 | 8.07 | 0.12 | 28 | <0.05 | 0.75 | 3 | 0.7 |
| A2018154 | | 0.317 | 0.29 | 0.86 | 288 | 0.37 | 17.45 | 95 | 11.9 |
| A2018155 | | <0.005 | 0.24 | 0.28 | 99 | 0.28 | 14.30 | 258 | 0.7 |
| A2018156 | | 0.026 | 0.20 | 0.36 | 142 | 0.34 | 8.74 | 248 | 0.7 |
| A2018157 | | 0.021 | 0.61 | 0.42 | 177 | 0.25 | 14.55 | 163 | 2.3 |
| A2018158 | | 0.005 | 0.26 | 0.31 | 107 | 0.30 | 22.3 | 254 | 1.6 |
| A2018159 | | 0.007 | 0.29 | 0.30 | 116 | 0.29 | 23.6 | 240 | 1.4 |
| A2018160 | | 0.076 | 0.39 | 0.42 | 188 | 0.19 | 17.50 | 213 | 5.7 |
| A2018161 | | 0.078 | 0.39 | 0.40 | 199 | 0.19 | 16.85 | 200 | 5.8 |
| A2018162 | | 0.005 | 0.35 | 0.81 | 26 | 0.07 | 6.04 | 71 | 0.9 |
| A2018163 | | 0.074 | 0.49 | 0.43 | 196 | 0.19 | 19.85 | 266 | 3.8 |
| A2018164 | | <0.005 | 0.24 | 0.23 | 123 | 0.18 | 31.4 | 1880 | 3.1 |
| A2018165 | | 0.032 | 0.26 | 0.50 | 185 | 0.57 | 17.30 | 209 | 0.8 |
| A2018166 | | 0.010 | 0.23 | 0.32 | 175 | 0.45 | 6.29 | 144 | 0.6 |
| A2018167 | | 0.014 | 0.20 | 0.42 | 195 | 0.21 | 12.90 | 149 | 0.6 |
| A2018168 | | 0.197 | 0.19 | 0.56 | 336 | 0.22 | 39.6 | 121 | 4.1 |
| A2018169 | | 0.173 | 0.12 | 0.62 | 304 | 0.29 | 7.98 | 121 | 4.9 |
| A2018170 | | 0.031 | 0.12 | 0.59 | 239 | 0.22 | 8.25 | 108 | 1.6 |
| A2018205 | | 0.048 | 0.29 | 0.67 | 184 | 0.22 | 15.20 | 145 | 1.3 |
| A2018206 | | 0.141 | 0.13 | 0.35 | 156 | 0.24 | 2.59 | 92 | 3.0 |
| A2018207 | | 0.046 | 0.19 | 0.41 | 159 | 0.25 | 4.67 | 129 | 0.8 |
| A2018208 | | 0.115 | 0.15 | 0.37 | 162 | 0.27 | 2.59 | 87 | 3.7 |
| A2018209 | | 0.181 | 0.15 | 0.40 | 298 | 0.21 | 5.43 | 90 | 5.6 |
| A2018210 | | 0.109 | 0.23 | 0.57 | 176 | 0.15 | 34.9 | 97 | 6.4 |
| A2018211 | | 0.130 | 0.28 | 1.09 | 219 | 0.28 | 20.8 | 134 | 3.6 |
| A2018212 | | 0.056 | 0.14 | 0.47 | 146 | 0.13 | 6.14 | 138 | 0.7 |
| A2018213 | | 0.062 | 0.14 | 0.48 | 146 | 0.14 | 5.89 | 139 | 0.7 |
| A2018214 | | 0.074 | 0.11 | 0.47 | 144 | 0.12 | 7.95 | 196 | <0.5 |
| A2018215 | | 0.069 | 0.15 | 0.66 | 120 | 0.13 | 14.60 | 182 | 1.1 |
| A2018216 | | 0.097 | 0.18 | 0.68 | 155 | 0.13 | 18.95 | 130 | 2.9 |
| A2018253 | | 0.041 | 0.28 | 1.00 | 84 | 0.10 | 21.4 | 105 | 1.0 |
| A2018254 | | 0.038 | 0.31 | 1.12 | 83 | 0.12 | 22.2 | 106 | 1.1 |
| A2018255 | | 0.016 | 0.26 | 1.07 | 74 | 0.15 | 39.0 | 84 | 0.9 |
| A2018256 | | 0.157 | 0.19 | 2.25 | 49 | 0.40 | 38.7 | 93 | 26.7 |
| A2018257 | | 0.028 | 0.26 | 2.12 | 54 | 0.37 | 30.6 | 85 | 4.0 |
| A2018258 | | 0.165 | 0.30 | 0.93 | 140 | 0.06 | 22.3 | 127 | 7.9 |
| A2018259 | | 0.150 | 0.26 | 0.87 | 161 | 0.08 | 21.3 | 140 | 8.9 |
| A2018260 | | 0.090 | 0.27 | 0.99 | 140 | <0.05 | 22.8 | 129 | 5.3 |
| A2018261 | | 0.008 | 0.31 | 0.35 | 56 | <0.05 | 9.58 | 42 | 1.4 |
| A2018262 | | 0.013 | 0.20 | 0.76 | 59 | <0.05 | 16.25 | 66 | 2.1 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method | WEI-21 | Au-ICP21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| | Units | kg | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.01 | 0.01 | 0.1 | 0.2 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 |
| A2018263 | | 0.62 | <0.001 | 0.09 | 2.63 | 4.0 | <0.2 | 10 | 550 | 1.03 | 0.07 | 1.72 | 0.34 | 42.9 | 19.9 | 1 |
| A2018264 | | 0.82 | 0.001 | 0.12 | 2.05 | 14.3 | <0.2 | <10 | 580 | 1.06 | 0.22 | 1.12 | 0.37 | 37.2 | 20.6 | 1 |
| A2018265 | | 0.70 | 0.006 | 0.14 | 1.03 | 16.6 | <0.2 | <10 | 660 | 0.23 | 0.70 | 0.22 | 0.03 | 35.7 | 3.2 | <1 |
| A2018266 | | 0.38 | <0.001 | 0.02 | 0.08 | 28.0 | <0.2 | 10 | 190 | 0.07 | 0.02 | 2.35 | 0.11 | 2.91 | 35.9 | <1 |
| A2018267 | | 0.34 | <0.001 | 0.07 | 21.3 | 2.6 | <0.2 | 10 | 60 | 4.72 | 0.04 | 0.24 | 0.72 | 108.0 | 15.4 | <1 |
| A2018268 | | 0.64 | 0.071 | 0.92 | 2.94 | 39.8 | <0.2 | <10 | 440 | 1.37 | 0.32 | 0.15 | 0.16 | 42.6 | 9.2 | 15 |
| A2018269 | | 0.60 | <0.001 | 0.11 | 2.17 | 1.3 | <0.2 | <10 | 190 | 0.84 | 0.01 | 2.03 | 0.07 | 24.9 | 13.3 | <1 |
| A2018270 | | 0.64 | <0.001 | 0.11 | 1.64 | 5.3 | <0.2 | <10 | 560 | 0.73 | 0.02 | 1.03 | 0.10 | 30.9 | 20.6 | <1 |
| A2018271 | | 0.56 | <0.001 | 0.09 | 1.94 | 1.3 | <0.2 | <10 | 830 | 0.72 | 0.02 | 1.00 | 0.22 | 39.2 | 21.8 | <1 |
| A2018272 | | 0.66 | 0.001 | 0.11 | 1.76 | 3.4 | <0.2 | <10 | 770 | 1.05 | 0.01 | 0.93 | 0.20 | 61.9 | 28.8 | <1 |
| A2018273 | | 0.62 | 0.024 | 0.19 | 2.47 | 36.2 | <0.2 | <10 | 530 | 0.95 | 0.12 | 0.40 | 0.21 | 42.4 | 14.0 | 4 |
| A2018274 | | 0.54 | 0.022 | 0.28 | 2.18 | 11.5 | <0.2 | <10 | 960 | 1.03 | 0.04 | 1.09 | 0.38 | 55.5 | 20.8 | 2 |
| A2018275 | | 0.66 | 0.004 | 0.13 | 1.77 | 6.5 | <0.2 | <10 | 990 | 0.72 | 0.04 | 1.05 | 0.20 | 40.4 | 15.1 | 1 |
| A2018276 | | 0.56 | 0.001 | 0.11 | 2.00 | 5.0 | <0.2 | <10 | 700 | 0.73 | 0.03 | 1.12 | 0.21 | 42.3 | 16.1 | 1 |
| A2018277 | | 0.68 | 0.003 | 0.11 | 2.00 | 4.1 | <0.2 | <10 | 870 | 0.70 | 0.03 | 1.06 | 0.18 | 39.1 | 14.3 | 1 |
| A2018278 | | 0.58 | <0.001 | 0.11 | 2.06 | 5.6 | <0.2 | <10 | 720 | 0.65 | 0.02 | 1.68 | 0.14 | 36.5 | 14.8 | 1 |
| A2018279 | | 0.64 | <0.001 | 0.10 | 2.03 | 5.3 | <0.2 | <10 | 600 | 0.77 | 0.03 | 1.29 | 0.20 | 39.6 | 19.0 | 1 |
| A2018280 | | 0.60 | 0.009 | 0.15 | 2.07 | 12.9 | <0.2 | <10 | 700 | 0.83 | 0.07 | 1.16 | 0.16 | 38.4 | 18.3 | 1 |
| A2018281 | | 0.58 | <0.001 | 0.10 | 2.08 | 7.3 | <0.2 | <10 | 560 | 0.73 | 0.02 | 1.43 | 0.19 | 35.7 | 20.9 | 1 |
| A2018282 | | 0.64 | 0.001 | 0.07 | 2.33 | 4.7 | <0.2 | <10 | 780 | 0.77 | 0.09 | 1.45 | 0.27 | 35.3 | 24.4 | 1 |
| A2018283 | | 0.62 | 0.002 | 0.08 | 2.48 | 5.6 | <0.2 | <10 | 780 | 0.77 | 0.08 | 1.22 | 0.31 | 38.3 | 27.9 | 1 |
| A2018284 | | 0.64 | 0.001 | 0.10 | 2.32 | 5.4 | <0.2 | <10 | 740 | 0.81 | 0.10 | 1.18 | 0.25 | 40.0 | 25.4 | 1 |
| A2018285 | | 0.68 | 0.001 | 0.10 | 2.46 | 5.4 | <0.2 | <10 | 990 | 0.77 | 0.08 | 1.11 | 0.34 | 39.4 | 27.7 | 1 |
| A2018286 | | 0.58 | 0.001 | 0.12 | 2.01 | 10.9 | <0.2 | <10 | 1460 | 0.78 | 0.27 | 0.77 | 0.27 | 30.8 | 19.7 | 1 |
| A2018287 | | 0.58 | 0.075 | 0.75 | 2.19 | 124.5 | <0.2 | <10 | 310 | 1.88 | 0.50 | 0.08 | 0.32 | 67.4 | 16.2 | 6 |
| A2018288 | | 0.58 | 0.022 | 0.21 | 1.55 | 27.2 | <0.2 | <10 | 1590 | 0.55 | 0.46 | 0.23 | 0.09 | 33.4 | 15.3 | 1 |
| A2018289 | | 0.42 | 0.020 | 0.22 | 2.20 | 44.1 | <0.2 | <10 | 630 | 1.26 | 0.74 | 0.08 | 0.35 | 49.4 | 31.5 | 3 |
| A2018290 | | 0.44 | 0.015 | 0.19 | 1.96 | 37.6 | <0.2 | <10 | 580 | 1.13 | 0.77 | 0.07 | 0.29 | 43.6 | 27.8 | 3 |
| A2018291 | | 0.54 | 0.043 | 0.29 | 2.16 | 63.2 | <0.2 | <10 | 450 | 0.91 | 0.54 | 0.02 | 0.17 | 35.7 | 19.6 | 4 |
| A2018292 | | 0.54 | 0.064 | 0.38 | 2.18 | 86.4 | <0.2 | <10 | 560 | 0.80 | 0.60 | 0.06 | 0.25 | 51.1 | 23.4 | 4 |
| A2018293 | | 0.56 | 0.302 | 0.18 | 2.13 | 106.0 | <0.2 | <10 | 220 | 0.98 | 0.31 | 0.05 | 0.18 | 34.6 | 18.5 | 6 |
| A2018294 | | 0.50 | 0.016 | 0.24 | 2.15 | 27.8 | <0.2 | <10 | 760 | 1.62 | 0.33 | 0.05 | 1.99 | 56.9 | 79.3 | 2 |
| A2018295 | | 0.48 | 0.007 | 0.09 | 3.55 | 11.9 | <0.2 | <10 | 220 | 1.13 | 0.23 | 0.07 | 0.12 | 36.6 | 16.6 | 6 |
| A2018296 | | 0.64 | 0.035 | 0.19 | 2.77 | 25.3 | <0.2 | <10 | 380 | 1.84 | 0.28 | 0.34 | 0.33 | 56.9 | 20.2 | 7 |
| A2018297 | | 0.40 | 0.005 | 0.07 | 2.77 | 13.5 | <0.2 | <10 | 140 | 1.45 | 0.16 | 0.13 | 0.11 | 35.7 | 11.7 | 11 |
| A2018298 | | 0.68 | 0.037 | 0.18 | 2.54 | 20.5 | <0.2 | <10 | 540 | 1.50 | 0.16 | 0.53 | 0.20 | 49.7 | 16.5 | 16 |
| A2018299 | | 0.68 | 0.073 | 0.17 | 3.28 | 13.7 | <0.2 | <10 | 880 | 1.43 | 0.13 | 0.66 | 0.17 | 47.2 | 19.8 | 11 |
| A2018300 | | 0.66 | 0.038 | 0.06 | 2.91 | 8.0 | <0.2 | <10 | 890 | 1.34 | 0.07 | 0.62 | 0.14 | 55.5 | 21.7 | 5 |
| A2018320 | | 0.56 | 0.002 | 0.08 | 0.95 | 3.0 | <0.2 | <10 | 70 | 1.68 | 0.15 | 0.85 | 0.05 | 31.8 | 8.6 | 2 |
| A2018321 | | 0.60 | <0.001 | 0.10 | 1.44 | 5.0 | <0.2 | <10 | 900 | 1.11 | 0.02 | 0.73 | 0.25 | 37.8 | 11.9 | 2 |

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

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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Cs<br>ppm<br>0.05 | ME-MS41<br>Cu<br>ppm<br>0.2 | ME-MS41<br>Fe<br>%<br>0.01 | ME-MS41<br>Ga<br>ppm<br>0.05 | ME-MS41<br>Ge<br>ppm<br>0.05 | ME-MS41<br>Hf<br>ppm<br>0.02 | ME-MS41<br>Hg<br>ppm<br>0.01 | ME-MS41<br>In<br>ppm<br>0.005 | ME-MS41<br>K<br>%<br>0.01 | ME-MS41<br>La<br>ppm<br>0.2 | ME-MS41<br>Li<br>ppm<br>0.1 | ME-MS41<br>Mg<br>%<br>0.01 | ME-MS41<br>Mn<br>ppm<br>5 | ME-MS41<br>Mo<br>ppm<br>0.05 | ME-MS41<br>Na<br>%<br>0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018263 | | 0.65 | 21.2 | 5.42 | 10.40 | 0.07 | 0.09 | 0.05 | 0.061 | 0.21 | 21.6 | 16.3 | 1.34 | 2080 | 0.83 | 0.02 |
| A2018264 | | 0.93 | 19.0 | 5.61 | 6.75 | 0.06 | 0.08 | 0.36 | 0.062 | 0.22 | 17.3 | 10.5 | 0.70 | 1580 | 0.94 | 0.02 |
| A2018265 | | 0.39 | 7.8 | 4.07 | 1.95 | 0.06 | <0.02 | 0.21 | 0.035 | 0.14 | 20.5 | 3.8 | 0.21 | 401 | 0.98 | 0.02 |
| A2018266 | | 0.14 | 1.2 | 31.6 | 0.88 | 0.15 | 0.02 | 0.02 | <0.005 | 0.02 | 2.3 | 2.3 | 0.04 | >50000 | 4.43 | 0.02 |
| A2018267 | | 0.20 | 9.3 | 0.52 | 1.87 | 0.33 | 0.05 | 0.02 | 0.007 | 0.02 | 55.3 | 6.9 | 0.03 | 3650 | 0.21 | <0.01 |
| A2018268 | | 1.36 | 29.2 | 4.70 | 13.00 | 0.08 | 0.05 | 0.23 | 0.064 | 0.09 | 32.4 | 9.2 | 0.28 | 1480 | 3.04 | 0.02 |
| A2018269 | | 1.07 | 12.2 | 3.63 | 5.11 | <0.05 | 0.04 | 0.09 | 0.030 | 0.20 | 11.4 | 8.2 | 0.55 | 906 | 0.26 | 0.02 |
| A2018270 | | 1.76 | 20.0 | 4.50 | 5.39 | 0.05 | 0.06 | 0.47 | 0.042 | 0.27 | 15.2 | 4.6 | 0.25 | 1660 | 0.61 | 0.02 |
| A2018271 | | 1.80 | 17.1 | 4.32 | 5.59 | 0.06 | 0.10 | 0.25 | 0.044 | 0.25 | 18.2 | 5.1 | 0.35 | 2520 | 0.30 | 0.01 |
| A2018272 | | 0.86 | 14.3 | 2.90 | 4.73 | 0.10 | 0.05 | 6.51 | 0.028 | 0.17 | 31.9 | 6.2 | 0.13 | 2260 | 0.78 | 0.02 |
| A2018273 | | 1.33 | 15.9 | 4.47 | 8.19 | 0.05 | 0.04 | 2.33 | 0.047 | 0.15 | 18.6 | 7.6 | 0.27 | 1660 | 1.59 | 0.02 |
| A2018274 | | 1.99 | 21.0 | 4.84 | 8.22 | 0.09 | 0.07 | 1.21 | 0.052 | 0.19 | 23.2 | 9.3 | 0.34 | 2860 | 1.09 | 0.02 |
| A2018275 | | 1.37 | 13.9 | 4.56 | 6.39 | 0.07 | 0.12 | 1.30 | 0.043 | 0.18 | 20.1 | 8.3 | 0.47 | 1720 | 0.73 | 0.04 |
| A2018276 | | 1.51 | 15.1 | 4.25 | 7.22 | 0.07 | 0.12 | 0.95 | 0.044 | 0.19 | 20.3 | 9.5 | 0.66 | 1720 | 0.55 | 0.04 |
| A2018277 | | 1.15 | 13.7 | 4.72 | 7.66 | 0.07 | 0.12 | 0.95 | 0.047 | 0.17 | 19.3 | 9.8 | 0.70 | 1610 | 0.57 | 0.05 |
| A2018278 | | 1.17 | 14.1 | 4.44 | 7.72 | 0.07 | 0.26 | 0.65 | 0.043 | 0.19 | 18.1 | 9.1 | 0.70 | 1240 | 0.52 | 0.06 |
| A2018279 | | 1.78 | 17.2 | 4.45 | 7.66 | 0.07 | 0.20 | 0.66 | 0.047 | 0.18 | 18.6 | 9.5 | 0.54 | 1470 | 0.66 | 0.04 |
| A2018280 | | 1.75 | 21.1 | 4.57 | 7.86 | 0.07 | 0.12 | 0.63 | 0.051 | 0.20 | 18.2 | 9.4 | 0.56 | 1080 | 0.66 | 0.04 |
| A2018281 | | 2.57 | 17.0 | 4.27 | 7.30 | 0.08 | 0.25 | 0.99 | 0.043 | 0.24 | 16.8 | 7.8 | 0.50 | 1010 | 1.06 | 0.04 |
| A2018282 | | 3.32 | 18.8 | 5.72 | 9.32 | 0.08 | 0.32 | 0.33 | 0.057 | 0.23 | 16.6 | 12.1 | 0.81 | 1180 | 0.84 | 0.04 |
| A2018283 | | 3.40 | 19.0 | 5.91 | 9.94 | 0.09 | 0.23 | 0.28 | 0.064 | 0.24 | 17.3 | 13.4 | 0.88 | 1300 | 0.99 | 0.05 |
| A2018284 | | 2.33 | 19.6 | 6.29 | 9.49 | 0.09 | 0.22 | 0.34 | 0.056 | 0.21 | 18.7 | 12.2 | 0.79 | 1600 | 0.83 | 0.04 |
| A2018285 | | 3.19 | 19.6 | 6.14 | 9.82 | 0.10 | 0.23 | 0.25 | 0.063 | 0.23 | 17.6 | 12.4 | 0.80 | 1610 | 0.94 | 0.05 |
| A2018286 | | 0.94 | 18.4 | 5.72 | 6.17 | 0.05 | 0.02 | 0.36 | 0.054 | 0.19 | 13.9 | 8.0 | 0.46 | 1310 | 0.99 | 0.01 |
| A2018287 | | 0.96 | 30.0 | 6.30 | 9.37 | 0.06 | 0.03 | 0.33 | 0.074 | 0.09 | 25.0 | 7.4 | 0.30 | 2180 | 2.97 | 0.02 |
| A2018288 | | 0.89 | 13.6 | 5.65 | 5.56 | 0.05 | <0.02 | 0.10 | 0.030 | 0.11 | 13.6 | 3.5 | 0.40 | 2060 | 0.92 | 0.01 |
| A2018289 | | 0.57 | 16.0 | 9.16 | 6.43 | 0.07 | 0.06 | 0.11 | 0.040 | 0.09 | 29.3 | 13.8 | 0.25 | 12000 | 2.00 | 0.02 |
| A2018290 | | 0.60 | 14.0 | 8.00 | 5.63 | 0.07 | 0.05 | 0.07 | 0.036 | 0.08 | 27.6 | 12.3 | 0.24 | 10300 | 1.98 | 0.02 |
| A2018291 | | 0.80 | 19.3 | 7.90 | 6.33 | 0.06 | 0.10 | 0.24 | 0.053 | 0.12 | 16.5 | 7.3 | 0.29 | 3230 | 1.83 | 0.02 |
| A2018292 | | 0.74 | 27.5 | 6.69 | 4.57 | 0.06 | 0.04 | 0.40 | 0.050 | 0.20 | 22.3 | 7.6 | 0.39 | 2010 | 1.92 | 0.03 |
| A2018293 | | 1.09 | 21.2 | 7.28 | 6.69 | <0.05 | 0.02 | 0.14 | 0.051 | 0.13 | 16.4 | 6.1 | 0.32 | 2610 | 2.14 | 0.02 |
| A2018294 | | 0.74 | 16.3 | 15.10 | 5.21 | 0.10 | 0.13 | 0.19 | 0.040 | 0.10 | 25.2 | 12.9 | 0.21 | 12600 | 1.77 | 0.02 |
| A2018295 | | 3.23 | 16.5 | 5.02 | 13.75 | 0.05 | 0.04 | 0.18 | 0.071 | 0.11 | 16.8 | 11.2 | 0.32 | 2100 | 2.51 | 0.02 |
| A2018296 | | 2.17 | 26.9 | 5.62 | 11.00 | 0.07 | 0.13 | 0.31 | 0.074 | 0.18 | 25.1 | 13.7 | 0.51 | 1670 | 2.56 | 0.03 |
| A2018297 | | 1.53 | 16.2 | 4.80 | 12.00 | <0.05 | 0.29 | 0.09 | 0.059 | 0.07 | 16.4 | 9.8 | 0.34 | 940 | 3.52 | 0.04 |
| A2018298 | | 1.36 | 32.7 | 5.14 | 10.05 | 0.08 | 0.19 | 0.17 | 0.073 | 0.10 | 22.0 | 14.1 | 0.70 | 1440 | 2.43 | 0.03 |
| A2018299 | | 2.30 | 36.6 | 6.08 | 13.45 | 0.08 | 0.12 | 0.13 | 0.058 | 0.13 | 23.4 | 19.9 | 1.05 | 2050 | 1.61 | 0.02 |
| A2018300 | | 1.82 | 26.4 | 6.44 | 12.60 | 0.06 | 0.05 | 0.04 | 0.050 | 0.12 | 20.8 | 19.9 | 0.96 | 1920 | 1.40 | 0.02 |
| A2018320 | | 1.06 | 79.2 | 2.78 | 3.55 | <0.05 | 0.06 | 0.04 | 0.028 | 0.30 | 16.2 | 4.9 | 0.36 | 670 | 0.35 | 0.01 |
| A2018321 | | 1.01 | 47.9 | 2.50 | 5.74 | <0.05 | 0.03 | 0.06 | 0.031 | 0.24 | 18.6 | 10.2 | 0.73 | 2460 | 0.31 | 0.01 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018263 | | 1.95 | 1.3 | 2150 | 8.4 | 5.8 | 0.001 | 0.14 | 0.19 | 16.0 | 2.3 | 0.9 | 90.2 | <0.01 | 0.03 | 1.3 |
| A2018264 | | 0.12 | 1.3 | 1980 | 10.8 | 5.5 | 0.001 | 0.41 | 0.19 | 12.0 | 1.8 | 0.8 | 106.5 | <0.01 | 0.14 | 2.1 |
| A2018265 | | 0.14 | 0.5 | 1820 | 21.7 | 2.1 | <0.001 | 0.27 | 0.29 | 1.6 | 10.8 | <0.2 | 190.0 | <0.01 | 0.33 | 1.7 |
| A2018266 | | 0.07 | 1.0 | 280 | 1.0 | 0.9 | <0.001 | 0.16 | 0.09 | 0.3 | 1.1 | <0.2 | 1200 | <0.01 | 0.02 | <0.2 |
| A2018267 | | 0.05 | 0.7 | 280 | 1.2 | 0.7 | 0.001 | 3.42 | 0.11 | 1.5 | 6.5 | <0.2 | 101.5 | 0.01 | 0.03 | <0.2 |
| A2018268 | | 5.94 | 6.0 | 1650 | 17.9 | 20.6 | 0.001 | 0.08 | 1.22 | 1.7 | 1.5 | 2.4 | 20.9 | 0.04 | 0.04 | <0.2 |
| A2018269 | | <0.05 | 0.6 | 1550 | 5.4 | 3.7 | <0.001 | 0.18 | 0.06 | 6.9 | 0.5 | 0.4 | 388 | <0.01 | <0.01 | 1.8 |
| A2018270 | | <0.05 | 1.0 | 1630 | 8.5 | 6.1 | <0.001 | 0.10 | 0.27 | 11.5 | 0.4 | 0.5 | 140.5 | <0.01 | 0.01 | 1.7 |
| A2018271 | | <0.05 | 0.6 | 1710 | 4.7 | 7.4 | <0.001 | 0.01 | 0.12 | 14.7 | 0.6 | 0.7 | 44.7 | <0.01 | 0.01 | 1.7 |
| A2018272 | | 0.41 | 1.3 | 1960 | 13.0 | 4.5 | <0.001 | 0.06 | 1.79 | 7.4 | 1.0 | 0.3 | 64.4 | 0.01 | 0.01 | 1.7 |
| A2018273 | | 3.15 | 3.6 | 1620 | 12.2 | 8.5 | <0.001 | 0.13 | 6.64 | 4.5 | 0.8 | 0.9 | 43.2 | 0.02 | 0.03 | 0.3 |
| A2018274 | | 1.52 | 2.3 | 2010 | 46.7 | 8.2 | 0.001 | 0.04 | 5.99 | 10.8 | 0.7 | 1.0 | 56.2 | 0.01 | 0.01 | 1.4 |
| A2018275 | | 0.35 | 1.2 | 1910 | 10.3 | 4.8 | <0.001 | 0.07 | 3.01 | 8.4 | 0.5 | 0.7 | 80.1 | <0.01 | <0.01 | 1.7 |
| A2018276 | | 0.22 | 1.0 | 2010 | 8.3 | 5.2 | <0.001 | 0.05 | 1.63 | 10.9 | 0.5 | 0.7 | 134.0 | <0.01 | 0.01 | 1.8 |
| A2018277 | | 0.24 | 1.2 | 1930 | 7.9 | 4.8 | <0.001 | 0.05 | 1.53 | 10.1 | 0.5 | 0.7 | 96.2 | <0.01 | 0.01 | 1.7 |
| A2018278 | | 0.22 | 1.0 | 1840 | 7.2 | 5.2 | <0.001 | 0.09 | 1.58 | 10.9 | 0.4 | 0.7 | 131.5 | <0.01 | 0.01 | 1.8 |
| A2018279 | | 0.15 | 1.4 | 1780 | 8.4 | 5.0 | <0.001 | 0.14 | 1.35 | 13.1 | 0.8 | 0.7 | 136.5 | <0.01 | 0.02 | 2.0 |
| A2018280 | | 0.21 | 1.8 | 1610 | 9.3 | 5.7 | <0.001 | 0.08 | 1.31 | 13.1 | 0.6 | 0.8 | 155.5 | 0.01 | 0.03 | 2.0 |
| A2018281 | | 0.22 | 1.1 | 1730 | 8.0 | 6.5 | 0.001 | 0.31 | 1.15 | 13.6 | 1.2 | 0.7 | 218 | <0.01 | 0.26 | 2.0 |
| A2018282 | | 0.17 | 1.2 | 1710 | 8.4 | 7.3 | 0.001 | 0.20 | 0.30 | 17.9 | 1.6 | 0.8 | 155.0 | <0.01 | 0.21 | 1.8 |
| A2018283 | | 0.17 | 1.4 | 1980 | 7.7 | 7.9 | 0.001 | 0.15 | 0.22 | 19.6 | 1.6 | 0.8 | 190.5 | <0.01 | 0.24 | 1.9 |
| A2018284 | | 0.34 | 1.6 | 1750 | 9.5 | 6.5 | <0.001 | 0.29 | 0.40 | 18.8 | 1.6 | 0.8 | 102.5 | <0.01 | 0.34 | 1.9 |
| A2018285 | | 0.27 | 1.6 | 1840 | 9.1 | 8.2 | <0.001 | 0.12 | 0.28 | 19.4 | 1.3 | 0.9 | 110.0 | <0.01 | 0.18 | 1.9 |
| A2018286 | | 0.26 | 1.1 | 1590 | 12.0 | 5.6 | <0.001 | 0.11 | 0.18 | 10.8 | 1.5 | 0.7 | 117.5 | <0.01 | 0.15 | 1.5 |
| A2018287 | | 4.91 | 4.8 | 1630 | 21.7 | 11.0 | <0.001 | 0.06 | 3.13 | 2.8 | 2.2 | 2.0 | 21.9 | 0.05 | 0.29 | 0.4 |
| A2018288 | | 0.21 | 0.9 | 1900 | 15.3 | 3.7 | <0.001 | 0.07 | 0.26 | 2.4 | 3.9 | 0.4 | 87.5 | <0.01 | 0.23 | 1.3 |
| A2018289 | | 2.98 | 4.1 | 1330 | 14.2 | 5.9 | <0.001 | 0.14 | 0.71 | 3.1 | 2.2 | 1.1 | 47.3 | 0.09 | 0.24 | 1.8 |
| A2018290 | | 3.11 | 5.3 | 1190 | 13.9 | 5.7 | 0.001 | 0.12 | 0.62 | 2.8 | 1.8 | 0.9 | 49.3 | 0.08 | 0.21 | 1.5 |
| A2018291 | | 2.77 | 2.9 | 2480 | 19.2 | 8.6 | <0.001 | 0.22 | 1.73 | 2.4 | 8.3 | 0.9 | 52.7 | 0.03 | 0.20 | 0.5 |
| A2018292 | | 0.76 | 2.9 | 1840 | 22.6 | 7.2 | <0.001 | 0.41 | 2.38 | 4.2 | 6.9 | 0.3 | 250 | <0.01 | 0.41 | 0.9 |
| A2018293 | | 1.71 | 3.3 | 2380 | 19.3 | 11.4 | <0.001 | 0.18 | 2.70 | 1.9 | 4.4 | 0.8 | 50.5 | 0.02 | 0.20 | <0.2 |
| A2018294 | | 1.95 | 12.3 | 1840 | 11.6 | 6.8 | <0.001 | 0.16 | 0.63 | 3.0 | 4.6 | 0.5 | 42.6 | 0.05 | 0.14 | 0.5 |
| A2018295 | | 6.66 | 5.0 | 1300 | 11.0 | 17.0 | 0.001 | 0.12 | 0.43 | 3.4 | 1.6 | 2.1 | 25.3 | 0.07 | 0.13 | 0.2 |
| A2018296 | | 2.77 | 11.1 | 1530 | 15.2 | 12.6 | 0.001 | 0.07 | 1.03 | 8.8 | 1.7 | 2.0 | 48.3 | 0.14 | 0.12 | 3.6 |
| A2018297 | | 17.45 | 8.7 | 1090 | 9.4 | 12.6 | <0.001 | 0.09 | 0.88 | 2.9 | 0.9 | 2.4 | 16.6 | 0.30 | 0.06 | 0.7 |
| A2018298 | | 3.04 | 23.7 | 1490 | 12.7 | 9.2 | 0.001 | 0.05 | 1.28 | 9.1 | 1.6 | 2.2 | 52.0 | 0.10 | 0.07 | 2.6 |
| A2018299 | | 1.94 | 14.9 | 1630 | 8.4 | 13.0 | 0.001 | 0.05 | 0.88 | 15.3 | 1.4 | 1.2 | 36.3 | 0.01 | 0.06 | 2.1 |
| A2018300 | | 1.69 | 7.4 | 1940 | 8.3 | 8.4 | 0.001 | 0.04 | 0.57 | 9.6 | 1.0 | 0.9 | 33.5 | 0.01 | 0.02 | 1.0 |
| A2018320 | | 0.05 | 3.1 | 1420 | 6.9 | 14.2 | <0.001 | 0.01 | 0.24 | 6.9 | 0.4 | 0.5 | 22.2 | <0.01 | <0.01 | 5.5 |
| A2018321 | | 0.23 | 3.6 | 2050 | 3.2 | 11.3 | <0.001 | 0.01 | 0.19 | 7.5 | 0.6 | 0.6 | 29.5 | <0.01 | <0.01 | 3.3 |

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

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VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Ti<br>%<br>0.005 | ME-MS41<br>Tl<br>ppm<br>0.02 | ME-MS41<br>U<br>ppm<br>0.05 | ME-MS41<br>V<br>ppm<br>1 | ME-MS41<br>W<br>ppm<br>0.05 | ME-MS41<br>Y<br>ppm<br>0.05 | ME-MS41<br>Zn<br>ppm<br>2 | ME-MS41<br>Zr<br>ppm<br>0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018263 | | 0.107 | 0.09 | 0.80 | 119 | 0.12 | 23.4 | 102 | 2.3 |
| A2018264 | | 0.030 | 0.25 | 0.84 | 92 | <0.05 | 20.5 | 92 | 2.8 |
| A2018265 | | <0.005 | 0.09 | 0.28 | 9 | <0.05 | 6.95 | 34 | <0.5 |
| A2018266 | | <0.005 | 0.09 | 0.17 | 2 | <0.05 | 4.83 | 62 | 0.7 |
| A2018267 | | <0.005 | 0.02 | 4.41 | 4 | <0.05 | 90.0 | 97 | 1.2 |
| A2018268 | | 0.062 | 0.28 | 1.47 | 75 | 0.17 | 25.0 | 95 | 3.2 |
| A2018269 | | <0.005 | 0.07 | 0.46 | 36 | <0.05 | 12.85 | 72 | 0.8 |
| A2018270 | | 0.012 | 0.13 | 0.41 | 76 | <0.05 | 14.80 | 59 | 1.2 |
| A2018271 | | 0.017 | 0.06 | 0.52 | 65 | <0.05 | 18.45 | 79 | 2.3 |
| A2018272 | | 0.076 | 0.08 | 1.03 | 50 | 0.06 | 32.2 | 67 | 1.9 |
| A2018273 | | 0.110 | 0.58 | 0.90 | 78 | 0.13 | 15.30 | 71 | 2.3 |
| A2018274 | | 0.299 | 0.41 | 1.28 | 105 | 0.17 | 23.5 | 94 | 3.9 |
| A2018275 | | 0.114 | 0.30 | 0.69 | 80 | 0.06 | 16.40 | 93 | 4.4 |
| A2018276 | | 0.107 | 0.20 | 0.68 | 80 | 0.06 | 17.65 | 85 | 4.6 |
| A2018277 | | 0.110 | 0.15 | 0.68 | 93 | 0.05 | 16.70 | 96 | 4.5 |
| A2018278 | | 0.147 | 0.16 | 0.65 | 92 | 0.05 | 15.70 | 90 | 7.9 |
| A2018279 | | 0.075 | 0.22 | 0.67 | 85 | <0.05 | 17.50 | 84 | 5.3 |
| A2018280 | | 0.066 | 0.21 | 0.68 | 90 | <0.05 | 17.35 | 89 | 4.7 |
| A2018281 | | 0.103 | 0.25 | 0.90 | 83 | 0.06 | 17.00 | 60 | 7.7 |
| A2018282 | | 0.137 | 0.25 | 0.85 | 122 | 0.05 | 18.95 | 86 | 10.2 |
| A2018283 | | 0.121 | 0.34 | 0.94 | 121 | 0.05 | 22.8 | 92 | 7.9 |
| A2018284 | | 0.161 | 0.24 | 0.89 | 135 | 0.06 | 20.0 | 95 | 8.2 |
| A2018285 | | 0.165 | 0.27 | 0.95 | 138 | 0.05 | 21.6 | 94 | 8.7 |
| A2018286 | | 0.024 | 0.23 | 0.73 | 88 | <0.05 | 17.55 | 78 | 0.7 |
| A2018287 | | 0.015 | 0.44 | 1.20 | 61 | 0.23 | 24.2 | 105 | 1.8 |
| A2018288 | | <0.005 | 0.23 | 0.22 | 40 | <0.05 | 6.62 | 56 | <0.5 |
| A2018289 | | 0.016 | 0.20 | 0.58 | 35 | 0.12 | 26.4 | 184 | 4.7 |
| A2018290 | | 0.018 | 0.19 | 0.51 | 34 | 0.10 | 25.7 | 156 | 4.0 |
| A2018291 | | 0.006 | 0.24 | 0.54 | 54 | 0.13 | 12.65 | 99 | 3.8 |
| A2018292 | | 0.006 | 0.32 | 0.65 | 52 | 0.06 | 11.10 | 81 | 2.2 |
| A2018293 | | 0.016 | 0.23 | 0.51 | 68 | 0.12 | 14.45 | 87 | 0.7 |
| A2018294 | | 0.007 | 0.25 | 0.64 | 40 | 0.08 | 27.3 | 242 | 4.8 |
| A2018295 | | 0.042 | 0.37 | 1.08 | 79 | 0.13 | 16.50 | 81 | 2.8 |
| A2018296 | | 0.070 | 0.36 | 1.48 | 73 | 0.13 | 24.8 | 124 | 13.4 |
| A2018297 | | 0.214 | 0.23 | 0.98 | 72 | 0.23 | 12.25 | 89 | 21.3 |
| A2018298 | | 0.120 | 0.20 | 1.33 | 80 | 0.16 | 26.7 | 106 | 15.7 |
| A2018299 | | 0.079 | 0.21 | 1.26 | 107 | 0.11 | 33.4 | 135 | 7.6 |
| A2018300 | | 0.046 | 0.11 | 1.00 | 121 | 0.09 | 22.4 | 123 | 1.9 |
| A2018320 | | 0.013 | 0.08 | 0.73 | 51 | 0.08 | 10.75 | 39 | 1.9 |
| A2018321 | | 0.013 | 0.09 | 1.45 | 50 | 0.07 | 16.90 | 46 | 1.8 |

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

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**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | WEI-21 | Au-ICP21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | Recvd Wt. | Au | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| Units | kg | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| LOR | 0.02 | 0.001 | 0.01 | 0.01 | 0.1 | 0.2 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 |
| A2018322 | 0.68 | 0.008 | 0.09 | 0.50 | 19.8 | <0.2 | 10 | 220 | 0.59 | 0.29 | 0.78 | 0.11 | 32.6 | 17.9 | <1 |
| A2018323 | 0.62 | 0.011 | 0.30 | 1.64 | 11.9 | <0.2 | 10 | 1780 | 1.01 | 0.05 | 2.05 | 0.18 | 32.7 | 19.1 | 1 |
| A2018324 | 0.72 | 0.002 | 0.10 | 0.92 | 15.2 | <0.2 | 10 | 290 | 0.86 | 0.10 | 1.15 | 0.24 | 32.0 | 22.0 | 4 |
| A2018325 | 0.64 | 0.007 | 0.12 | 1.13 | 25.9 | <0.2 | 10 | 570 | 1.06 | 0.10 | 0.80 | 0.28 | 32.5 | 22.0 | 7 |
| A2018326 | 0.76 | 0.002 | 0.13 | 0.96 | 27.9 | <0.2 | <10 | 520 | 0.95 | 0.10 | 0.88 | 0.37 | 34.0 | 24.1 | 4 |
| A2018327 | 0.64 | 0.003 | 0.17 | 2.47 | 7.8 | <0.2 | <10 | 830 | 0.83 | 0.04 | 0.99 | 0.17 | 49.2 | 16.9 | 1 |
| A2018328 | 0.68 | 0.005 | 0.09 | 1.65 | 54.6 | <0.2 | <10 | 680 | 0.48 | 0.11 | 0.32 | 0.08 | 24.4 | 7.6 | 1 |
| A2018329 | 0.58 | 0.001 | 0.11 | 1.52 | 8.9 | <0.2 | <10 | 700 | 1.10 | 0.05 | 1.09 | 0.22 | 26.9 | 20.6 | <1 |
| A2018330 | 0.44 | <0.001 | 0.08 | 2.10 | 9.3 | <0.2 | <10 | 550 | 0.72 | 0.01 | 0.28 | 0.05 | 30.6 | 13.4 | <1 |
| A2018331 | 0.40 | 0.042 | 0.27 | 2.43 | 75.7 | <0.2 | <10 | 770 | 1.23 | 0.46 | 0.19 | 0.31 | 46.1 | 15.2 | 5 |
| A2018332 | 0.46 | 0.014 | 0.37 | 3.92 | 15.3 | <0.2 | <10 | 2430 | 1.33 | 0.24 | 1.20 | 0.84 | 49.9 | 24.8 | 5 |
| A2018333 | 0.60 | 0.007 | 0.18 | 2.68 | 25.3 | <0.2 | <10 | 910 | 1.20 | 0.28 | 0.51 | 0.35 | 49.8 | 18.3 | 11 |
| A2018334 | 0.44 | 0.035 | 0.15 | 2.09 | 54.7 | <0.2 | <10 | 890 | 0.76 | 0.34 | 0.18 | 0.22 | 21.0 | 12.3 | 4 |
| A2018335 | 0.58 | 0.045 | 0.36 | 2.39 | 36.6 | <0.2 | <10 | 700 | 1.06 | 0.35 | 0.24 | 0.54 | 44.1 | 18.3 | 5 |
| A2018336 | 0.56 | 0.096 | 0.26 | 1.47 | 90.2 | <0.2 | <10 | 590 | 0.62 | 0.81 | 0.11 | 0.11 | 13.25 | 5.2 | 4 |
| A2018337 | 0.54 | 0.092 | 0.34 | 1.09 | 75.4 | <0.2 | <10 | 1190 | 0.87 | 0.71 | 0.21 | 0.61 | 19.10 | 18.5 | 3 |
| A2018338 | 0.54 | 0.084 | 0.33 | 1.44 | 71.6 | <0.2 | <10 | 690 | 0.70 | 0.57 | 0.14 | 0.36 | 16.90 | 13.5 | 4 |
| A2018339 | 0.50 | 0.127 | 0.51 | 1.45 | 94.3 | <0.2 | <10 | 490 | 0.91 | 0.68 | 0.21 | 0.40 | 28.1 | 22.9 | 4 |
| A2018340 | 0.70 | 0.180 | 0.83 | 1.21 | 156.5 | 1.2 | <10 | 910 | 0.37 | 1.34 | 0.08 | 0.19 | 18.15 | 7.9 | 5 |
| A2018341 | 0.64 | 0.002 | 0.09 | 2.91 | 4.2 | <0.2 | <10 | 1120 | 0.99 | 0.06 | 0.92 | 0.10 | 43.2 | 18.8 | 1 |
| A2018342 | 0.64 | 0.001 | 0.04 | 1.59 | 3.9 | <0.2 | <10 | 810 | 0.69 | 0.23 | 0.70 | 0.46 | 18.10 | 9.5 | <1 |
| A2018343 | 0.64 | 0.009 | 0.18 | 3.24 | 19.8 | <0.2 | <10 | 370 | 1.34 | 2.59 | 0.86 | 0.79 | 56.8 | 52.4 | <1 |
| A2018344 | 0.68 | 0.010 | 0.12 | 3.43 | 16.4 | <0.2 | <10 | 530 | 1.14 | 0.15 | 0.74 | 0.50 | 52.0 | 43.0 | 2 |
| A2018345 | 0.74 | 0.011 | 0.08 | 2.30 | 2.9 | <0.2 | 10 | 700 | 0.80 | 0.02 | 1.12 | 0.22 | 38.8 | 20.2 | 1 |
| A2018346 | 0.52 | 0.001 | 0.04 | 2.22 | 1.7 | <0.2 | <10 | 420 | 0.90 | 0.01 | 2.43 | 0.17 | 37.3 | 18.9 | 1 |
| A2018347 | 0.72 | 0.001 | 0.07 | 2.73 | 5.3 | <0.2 | <10 | 750 | 0.95 | 0.35 | 1.53 | 0.41 | 39.8 | 25.8 | <1 |
| A2018348 | 0.82 | 0.004 | 0.22 | 2.92 | 13.3 | <0.2 | <10 | 70 | 1.31 | 0.06 | 0.58 | 0.30 | 53.7 | 26.9 | 1 |
| A2018349 | 0.82 | 0.003 | 0.14 | 2.92 | 8.2 | <0.2 | <10 | 160 | 1.03 | 0.05 | 0.74 | 0.16 | 60.9 | 28.1 | 2 |
| A2018350 | 0.86 | 0.001 | 0.10 | 3.03 | 7.9 | <0.2 | <10 | 460 | 1.04 | 0.16 | 1.20 | 0.37 | 44.2 | 30.6 | <1 |
| A2018364 | 0.66 | 0.008 | 0.12 | 1.75 | 7.7 | <0.2 | <10 | 820 | 1.32 | 0.15 | 0.70 | 0.04 | 21.1 | 12.0 | 12 |
| A2018365 | 0.58 | 0.008 | 0.08 | 1.98 | 12.7 | <0.2 | <10 | 640 | 1.00 | 0.17 | 0.43 | 0.13 | 27.8 | 20.5 | 37 |
| A2018366 | 0.54 | 0.002 | 0.04 | 1.68 | 12.9 | <0.2 | <10 | 470 | 1.07 | 0.89 | 0.42 | 0.03 | 22.7 | 21.1 | 5 |
| A2018367 | 0.58 | 0.011 | 0.20 | 2.83 | 11.6 | <0.2 | 10 | 2210 | 1.10 | 0.08 | 1.05 | 1.04 | 54.1 | 28.5 | 7 |
| A2018368 | 0.40 | 0.013 | 0.20 | 1.70 | 11.6 | <0.2 | 10 | 1010 | 0.78 | 0.03 | 1.91 | 0.36 | 49.1 | 24.3 | 6 |
| A2018369 | 0.62 | 0.004 | 0.18 | 3.29 | 16.2 | <0.2 | 10 | 950 | 1.13 | 0.20 | 0.77 | 0.49 | 49.2 | 22.7 | 8 |
| A2018370 | 0.10 | 0.007 | 0.15 | 3.12 | 6.9 | <0.2 | 10 | 450 | 0.82 | 0.03 | 2.23 | 0.23 | 34.9 | 18.7 | 7 |
| A2018371 | 0.32 | <0.001 | 0.04 | 3.17 | 2.9 | <0.2 | <10 | 280 | 0.69 | 0.01 | 2.22 | 0.09 | 31.4 | 9.5 | 1 |
| A2018372 | 0.64 | 0.010 | 0.15 | 3.76 | 7.4 | <0.2 | 10 | 450 | 1.14 | 0.04 | 2.55 | 0.26 | 38.9 | 24.0 | 3 |
| A2018373 | 0.60 | 0.006 | 0.12 | 3.34 | 8.1 | <0.2 | <10 | 340 | 0.92 | 0.03 | 2.22 | 0.21 | 36.7 | 21.2 | 2 |
| A2018374 | 0.58 | 0.826 | 0.27 | 1.99 | 54.3 | <0.2 | <10 | 640 | 0.88 | 0.35 | 0.73 | 0.19 | 33.1 | 16.9 | 8 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Cs ppm 0.05 | ME-MS41 Cu ppm 0.2 | ME-MS41 Fe % 0.01 | ME-MS41 Ga ppm 0.05 | ME-MS41 Ge ppm 0.05 | ME-MS41 Hf ppm 0.02 | ME-MS41 Hg ppm 0.01 | ME-MS41 In ppm 0.005 | ME-MS41 K % 0.01 | ME-MS41 La ppm 0.2 | ME-MS41 Li ppm 0.1 | ME-MS41 Mg % 0.01 | ME-MS41 Mn ppm 5 | ME-MS41 Mo ppm 0.05 | ME-MS41 Na % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018322 | | 1.49 | 21.1 | 5.12 | 1.27 | 0.05 | 0.02 | 0.37 | 0.027 | 0.16 | 14.8 | 4.2 | 0.10 | 1440 | 1.36 | 0.01 |
| A2018323 | | 2.61 | 40.2 | 3.76 | 5.40 | <0.05 | 0.05 | 0.36 | 0.058 | 0.24 | 16.6 | 13.5 | 0.33 | 1500 | 0.77 | <0.01 |
| A2018324 | | 1.86 | 43.8 | 6.02 | 2.60 | 0.05 | 0.02 | 1.08 | 0.052 | 0.18 | 15.2 | 6.9 | 0.30 | 2020 | 1.34 | 0.01 |
| A2018325 | | 1.88 | 70.4 | 5.43 | 3.65 | <0.05 | 0.05 | 5.73 | 0.037 | 0.22 | 15.0 | 7.7 | 0.30 | 2000 | 1.99 | 0.02 |
| A2018326 | | 1.95 | 76.1 | 5.30 | 3.42 | 0.06 | 0.08 | 7.45 | 0.033 | 0.21 | 15.7 | 6.5 | 0.25 | 2130 | 1.79 | 0.02 |
| A2018327 | | 1.62 | 24.1 | 4.92 | 10.40 | 0.10 | 0.15 | 0.16 | 0.053 | 0.13 | 23.1 | 16.7 | 1.01 | 1280 | 0.74 | 0.03 |
| A2018328 | | 0.47 | 8.9 | 4.34 | 4.61 | <0.05 | 0.02 | 0.28 | 0.035 | 0.16 | 12.1 | 4.7 | 0.22 | 733 | 1.31 | 0.05 |
| A2018329 | | 2.39 | 12.9 | 3.32 | 3.80 | <0.05 | 0.03 | 1.10 | 0.037 | 0.19 | 10.9 | 5.7 | 0.20 | 1360 | 0.69 | 0.02 |
| A2018330 | | 1.19 | 21.4 | 4.69 | 4.33 | <0.05 | 0.04 | 0.24 | 0.051 | 0.13 | 16.1 | 5.7 | 0.20 | 1030 | 0.42 | 0.03 |
| A2018331 | | 1.44 | 34.4 | 5.87 | 8.33 | <0.05 | 0.02 | 0.22 | 0.074 | 0.11 | 13.1 | 11.5 | 0.35 | 1200 | 4.36 | 0.01 |
| A2018332 | | 4.38 | 39.8 | 5.10 | 14.75 | 0.08 | 0.04 | 0.21 | 0.095 | 0.24 | 23.5 | 19.6 | 0.97 | 5400 | 2.18 | 0.03 |
| A2018333 | | 2.21 | 29.4 | 4.98 | 9.30 | 0.06 | 0.04 | 0.19 | 0.061 | 0.17 | 16.8 | 11.4 | 0.62 | 1960 | 3.14 | 0.03 |
| A2018334 | | 1.30 | 21.7 | 5.24 | 5.63 | <0.05 | <0.02 | 0.64 | 0.060 | 0.09 | 7.8 | 7.3 | 0.20 | 1230 | 4.54 | 0.01 |
| A2018335 | | 1.84 | 30.8 | 5.15 | 7.97 | 0.07 | 0.02 | 0.18 | 0.066 | 0.13 | 19.5 | 9.2 | 0.38 | 2230 | 4.03 | 0.02 |
| A2018336 | | 0.81 | 22.4 | 6.09 | 4.29 | <0.05 | 0.02 | 0.42 | 0.060 | 0.12 | 7.0 | 4.0 | 0.16 | 358 | 8.74 | 0.01 |
| A2018337 | | 1.15 | 47.5 | 5.41 | 2.68 | <0.05 | 0.02 | 0.96 | 0.063 | 0.12 | 9.0 | 3.5 | 0.16 | 1620 | 6.06 | 0.01 |
| A2018338 | | 0.98 | 36.8 | 5.50 | 3.96 | <0.05 | <0.02 | 0.58 | 0.060 | 0.11 | 7.5 | 7.7 | 0.22 | 1200 | 5.85 | 0.01 |
| A2018339 | | 1.54 | 53.9 | 6.26 | 4.27 | <0.05 | 0.02 | 1.32 | 0.073 | 0.12 | 9.1 | 7.9 | 0.28 | 2020 | 6.26 | 0.01 |
| A2018340 | | 0.59 | 37.4 | 7.23 | 3.49 | <0.05 | 0.02 | 1.39 | 0.076 | 0.11 | 8.6 | 3.3 | 0.20 | 508 | 14.65 | 0.01 |
| A2018341 | | 3.74 | 19.5 | 4.19 | 8.47 | 0.07 | 0.15 | 0.11 | 0.059 | 0.25 | 19.0 | 10.5 | 0.44 | 1120 | 0.31 | 0.03 |
| A2018342 | | 2.78 | 13.1 | 4.85 | 4.34 | 0.05 | 0.14 | 0.08 | 0.048 | 0.20 | 9.5 | 4.9 | 0.14 | 162 | 0.94 | 0.02 |
| A2018343 | | 2.68 | 51.3 | 8.77 | 12.05 | 0.12 | 0.20 | 0.06 | 0.086 | 0.21 | 23.3 | 34.2 | 1.16 | 1920 | 1.41 | 0.03 |
| A2018344 | | 1.80 | 27.2 | 8.49 | 13.35 | 0.08 | 0.07 | 0.07 | 0.089 | 0.15 | 19.9 | 28.6 | 1.35 | 2290 | 1.47 | 0.04 |
| A2018345 | | 4.08 | 27.1 | 6.44 | 7.59 | 0.07 | 0.13 | 0.01 | 0.031 | 0.29 | 19.2 | 19.4 | 1.27 | 2760 | 0.70 | 0.02 |
| A2018346 | | 0.63 | 18.0 | 5.18 | 8.49 | 0.07 | 0.24 | 0.01 | 0.039 | 0.16 | 18.2 | 15.0 | 1.48 | 1640 | 0.48 | 0.01 |
| A2018347 | | 1.58 | 18.7 | 6.22 | 8.70 | 0.07 | 0.29 | 0.02 | 0.131 | 0.24 | 18.0 | 17.6 | 0.87 | 1640 | 0.92 | 0.03 |
| A2018348 | | 1.07 | 23.9 | 14.25 | 15.25 | 0.21 | 0.29 | 0.09 | 0.108 | 0.18 | 26.4 | 23.1 | 1.17 | 1760 | 2.43 | 0.09 |
| A2018349 | | 1.33 | 33.0 | 11.25 | 14.70 | 0.16 | 0.30 | 0.19 | 0.109 | 0.20 | 27.5 | 23.6 | 1.37 | 1170 | 1.57 | 0.12 |
| A2018350 | | 2.76 | 19.8 | 7.30 | 11.25 | 0.10 | 0.32 | 0.12 | 0.074 | 0.25 | 20.4 | 21.9 | 1.14 | 1600 | 1.32 | 0.05 |
| A2018364 | | 1.62 | 50.8 | 3.24 | 4.42 | <0.05 | 0.03 | 0.19 | 0.026 | 0.20 | 10.8 | 9.9 | 0.34 | 1010 | 0.53 | <0.01 |
| A2018365 | | 1.83 | 64.0 | 5.03 | 6.00 | <0.05 | 0.04 | 0.52 | 0.039 | 0.18 | 13.1 | 11.4 | 0.57 | 1380 | 1.10 | 0.01 |
| A2018366 | | 3.02 | 44.3 | 3.47 | 3.88 | <0.05 | 0.03 | 1.03 | 0.040 | 0.20 | 8.5 | 12.1 | 0.32 | 529 | 0.84 | 0.01 |
| A2018367 | | 2.43 | 74.6 | 6.53 | 13.35 | 0.08 | 0.07 | 0.14 | 0.057 | 0.12 | 23.8 | 18.7 | 1.48 | 5930 | 2.14 | 0.05 |
| A2018368 | | 0.88 | 58.3 | 4.72 | 7.60 | 0.06 | 0.08 | 0.23 | 0.038 | 0.23 | 26.1 | 12.9 | 0.58 | 3480 | 2.46 | 0.01 |
| A2018369 | | 2.07 | 57.1 | 5.80 | 10.85 | 0.06 | 0.06 | 0.07 | 0.159 | 0.21 | 21.1 | 23.5 | 1.18 | 2350 | 1.53 | 0.02 |
| A2018370 | | 0.95 | 45.6 | 5.37 | 11.25 | 0.17 | 0.22 | 0.03 | 0.046 | 0.17 | 17.5 | 12.0 | 0.79 | 1630 | 1.34 | 0.07 |
| A2018371 | | 1.46 | 8.3 | 3.57 | 10.80 | 0.07 | 0.15 | <0.01 | 0.034 | 0.19 | 16.5 | 10.5 | 0.53 | 832 | 0.67 | 0.16 |
| A2018372 | | 0.87 | 43.0 | 5.36 | 14.30 | 0.11 | 0.24 | 0.04 | 0.066 | 0.23 | 19.5 | 16.5 | 0.97 | 1940 | 1.89 | 0.05 |
| A2018373 | | 1.16 | 41.7 | 5.32 | 13.05 | 0.09 | 0.17 | 0.02 | 0.050 | 0.20 | 18.5 | 18.7 | 0.97 | 1750 | 1.20 | 0.06 |
| A2018374 | | 0.80 | 30.7 | 5.23 | 6.76 | <0.05 | 0.02 | 0.26 | 0.048 | 0.12 | 15.1 | 9.0 | 0.48 | 1740 | 2.29 | 0.02 |

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

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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018322 | | <0.05 | 4.0 | 1660 | 3.6 | 5.2 | 0.004 | 0.48 | 0.92 | 12.3 | 2.3 | <0.2 | 79.2 | <0.01 | 0.39 | 2.4 |
| A2018323 | | 0.09 | 3.5 | 1860 | 6.3 | 10.2 | <0.001 | 0.05 | 0.60 | 12.0 | 0.8 | 0.6 | 78.0 | <0.01 | <0.01 | 1.8 |
| A2018324 | | <0.05 | 5.8 | 2110 | 11.0 | 6.9 | 0.001 | 0.35 | 0.72 | 11.2 | 1.1 | 0.3 | 78.9 | <0.01 | 0.15 | 2.7 |
| A2018325 | | 0.13 | 7.0 | 2070 | 12.4 | 8.6 | 0.001 | 0.19 | 1.07 | 8.2 | 0.9 | 0.5 | 79.8 | <0.01 | 0.05 | 4.4 |
| A2018326 | | 0.05 | 6.5 | 2490 | 13.0 | 8.2 | 0.002 | 0.19 | 1.45 | 7.6 | 1.1 | 0.5 | 69.4 | <0.01 | 0.03 | 4.8 |
| A2018327 | | 2.10 | 2.9 | 1260 | 12.6 | 4.4 | 0.001 | 0.02 | 9.50 | 12.1 | 0.8 | 0.8 | 71.1 | 0.02 | <0.01 | 1.4 |
| A2018328 | | 0.47 | 1.3 | 1700 | 11.3 | 4.1 | <0.001 | 0.30 | 0.31 | 4.3 | 1.4 | 0.7 | 123.0 | <0.01 | 0.14 | 0.9 |
| A2018329 | | <0.05 | 0.9 | 1680 | 9.6 | 5.3 | <0.001 | 0.08 | 0.12 | 8.6 | 1.3 | 0.6 | 125.5 | <0.01 | 0.02 | 2.0 |
| A2018330 | | <0.05 | 0.5 | 2000 | 3.0 | 3.5 | <0.001 | 0.19 | <0.05 | 12.7 | 0.6 | 0.4 | 59.9 | <0.01 | 0.01 | 1.7 |
| A2018331 | | 2.64 | 3.5 | 1270 | 25.9 | 11.1 | 0.001 | 0.14 | 2.98 | 2.8 | 1.9 | 1.2 | 36.7 | 0.01 | 0.41 | 0.2 |
| A2018332 | | 2.66 | 6.9 | 1630 | 34.9 | 17.6 | <0.001 | 0.08 | 0.86 | 12.2 | 1.6 | 1.5 | 73.3 | 0.02 | 0.06 | 0.5 |
| A2018333 | | 3.30 | 8.8 | 2060 | 16.1 | 10.5 | 0.001 | 0.12 | 1.73 | 6.0 | 1.6 | 1.1 | 53.1 | 0.04 | 0.16 | 0.4 |
| A2018334 | | 2.03 | 3.1 | 1100 | 17.1 | 9.6 | 0.001 | 0.12 | 2.05 | 2.5 | 3.1 | 0.7 | 37.9 | <0.01 | 0.31 | 0.3 |
| A2018335 | | 2.29 | 4.9 | 1550 | 20.7 | 12.4 | 0.001 | 0.11 | 2.26 | 5.8 | 2.7 | 1.0 | 31.7 | 0.02 | 0.24 | 0.3 |
| A2018336 | | 1.17 | 2.6 | 1320 | 37.6 | 7.8 | 0.004 | 0.20 | 4.84 | 1.6 | 4.5 | 0.6 | 42.6 | <0.01 | 0.50 | 0.3 |
| A2018337 | | 0.09 | 3.5 | 1230 | 31.9 | 4.9 | 0.003 | 0.06 | 3.94 | 7.7 | 2.7 | 0.4 | 50.7 | <0.01 | 0.43 | 1.4 |
| A2018338 | | 1.00 | 3.6 | 1220 | 25.4 | 7.4 | 0.002 | 0.09 | 3.49 | 4.7 | 2.8 | 0.6 | 44.6 | <0.01 | 0.37 | 0.6 |
| A2018339 | | 0.80 | 4.5 | 1390 | 32.4 | 6.7 | 0.002 | 0.06 | 4.52 | 9.0 | 3.8 | 0.6 | 102.0 | <0.01 | 0.43 | 1.5 |
| A2018340 | | 0.64 | 2.2 | 1620 | 54.9 | 4.4 | 0.005 | 0.18 | 11.10 | 4.6 | 6.2 | 0.5 | 45.7 | <0.01 | 0.78 | 1.2 |
| A2018341 | | 0.18 | 1.9 | 1130 | 7.6 | 8.9 | <0.001 | 0.02 | 0.20 | 17.9 | 0.7 | 0.8 | 122.5 | 0.01 | <0.01 | 2.2 |
| A2018342 | | 0.07 | 0.5 | 1140 | 6.5 | 7.2 | 0.001 | 0.03 | 0.14 | 14.5 | 1.5 | 0.7 | 416 | <0.01 | 0.23 | 2.1 |
| A2018343 | | 0.23 | 1.6 | 3660 | 4.5 | 9.0 | 0.004 | 0.15 | 0.26 | 29.6 | 6.0 | 0.4 | 155.5 | 0.01 | 0.45 | 3.1 |
| A2018344 | | 0.79 | 3.9 | 2110 | 8.7 | 7.3 | 0.001 | 0.11 | 0.60 | 23.3 | 2.7 | 1.0 | 69.7 | 0.01 | 0.98 | 1.7 |
| A2018345 | | 0.14 | 1.5 | 1880 | 2.6 | 14.2 | 0.001 | 0.03 | 0.11 | 15.2 | 0.9 | 0.5 | 54.7 | <0.01 | 0.01 | 2.4 |
| A2018346 | | 0.19 | 1.1 | 1950 | 4.8 | 4.5 | <0.001 | <0.01 | 0.10 | 14.8 | 0.9 | 0.5 | 124.5 | <0.01 | <0.01 | 2.6 |
| A2018347 | | 0.20 | 1.1 | 1860 | 15.1 | 7.5 | 0.002 | 0.07 | 0.20 | 18.8 | 1.7 | 1.0 | 210 | <0.01 | 0.02 | 2.0 |
| A2018348 | | 0.44 | 1.8 | 3600 | 9.0 | 4.6 | 0.007 | 1.86 | 0.24 | 32.5 | 7.8 | 0.8 | 142.5 | 0.01 | 0.57 | 2.4 |
| A2018349 | | 0.33 | 2.6 | 2640 | 12.1 | 5.5 | 0.008 | 1.21 | 0.24 | 29.2 | 5.6 | 1.6 | 124.0 | 0.01 | 0.07 | 2.0 |
| A2018350 | | 0.12 | 1.1 | 1990 | 8.2 | 8.1 | 0.004 | 0.47 | 0.20 | 21.6 | 3.3 | 0.8 | 139.0 | <0.01 | 0.30 | 1.8 |
| A2018364 | | 0.05 | 6.5 | 1430 | 9.3 | 10.8 | <0.001 | 0.02 | 0.41 | 7.2 | 0.6 | 0.5 | 37.0 | <0.01 | 0.03 | 5.2 |
| A2018365 | | 0.78 | 14.9 | 1240 | 10.3 | 10.3 | 0.001 | 0.02 | 0.59 | 6.3 | 0.4 | 0.9 | 32.9 | <0.01 | 0.07 | 2.6 |
| A2018366 | | 0.25 | 6.1 | 950 | 11.4 | 10.3 | 0.001 | <0.01 | 0.31 | 3.3 | 0.5 | 0.9 | 28.8 | <0.01 | 0.09 | 3.6 |
| A2018367 | | 3.27 | 9.9 | 2210 | 7.7 | 8.3 | <0.001 | 0.14 | 0.79 | 11.3 | 1.1 | 0.8 | 72.7 | 0.02 | 0.02 | 0.5 |
| A2018368 | | 1.45 | 7.1 | 2090 | 7.0 | 9.7 | <0.001 | 0.13 | 0.75 | 9.0 | 1.4 | 0.7 | 82.8 | 0.01 | <0.01 | 0.5 |
| A2018369 | | 2.24 | 9.8 | 1530 | 20.1 | 16.7 | <0.001 | 0.04 | 0.61 | 12.6 | 1.4 | 2.0 | 43.7 | 0.01 | 0.11 | 1.0 |
| A2018370 | | 0.56 | 7.4 | 2060 | 7.4 | 3.6 | <0.001 | 0.03 | 0.55 | 12.9 | 0.7 | 0.8 | 271 | <0.01 | 0.01 | 2.3 |
| A2018371 | | 0.12 | 1.6 | 1860 | 5.3 | 4.6 | <0.001 | <0.01 | 0.13 | 4.9 | 0.6 | 0.6 | 408 | <0.01 | 0.01 | 2.3 |
| A2018372 | | 0.31 | 5.4 | 2040 | 4.6 | 7.6 | <0.001 | 0.02 | 0.38 | 15.2 | 1.2 | 0.9 | 277 | <0.01 | 0.03 | 3.0 |
| A2018373 | | 0.33 | 3.5 | 2170 | 7.1 | 6.8 | <0.001 | 0.01 | 0.39 | 13.1 | 0.8 | 0.9 | 232 | <0.01 | 0.01 | 3.1 |
| A2018374 | | 1.10 | 5.0 | 1830 | 17.3 | 7.5 | 0.001 | 0.09 | 2.89 | 2.7 | 1.4 | 0.7 | 56.0 | 0.01 | 0.16 | <0.2 |

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

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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Ti % 0.005 | ME-MS41 Tl ppm 0.02 | ME-MS41 U ppm 0.05 | ME-MS41 V ppm 1 | ME-MS41 W ppm 0.05 | ME-MS41 Y ppm 0.05 | ME-MS41 Zn ppm 2 | ME-MS41 Zr ppm 0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018322 | | <0.005 | 0.33 | 0.56 | 38 | <0.05 | 24.6 | 56 | 0.9 |
| A2018323 | | 0.006 | 0.18 | 0.45 | 78 | <0.05 | 24.5 | 55 | 1.4 |
| A2018324 | | <0.005 | 0.27 | 0.66 | 72 | <0.05 | 23.6 | 90 | 0.7 |
| A2018325 | | 0.014 | 0.43 | 1.60 | 78 | 0.07 | 20.2 | 83 | 1.7 |
| A2018326 | | 0.024 | 0.51 | 1.72 | 79 | 0.07 | 21.6 | 78 | 3.2 |
| A2018327 | | 0.243 | 0.36 | 0.85 | 81 | 0.14 | 19.50 | 89 | 8.1 |
| A2018328 | | <0.005 | 0.16 | 0.36 | 47 | <0.05 | 10.75 | 47 | 0.6 |
| A2018329 | | 0.006 | 0.29 | 0.74 | 44 | <0.05 | 17.95 | 60 | 1.0 |
| A2018330 | | <0.005 | 0.05 | 0.73 | 66 | <0.05 | 16.45 | 92 | 0.6 |
| A2018331 | | 0.014 | 0.59 | 0.87 | 70 | 0.11 | 11.75 | 66 | 0.9 |
| A2018332 | | 0.073 | 0.39 | 1.56 | 97 | 0.12 | 39.6 | 135 | 1.6 |
| A2018333 | | 0.073 | 0.34 | 1.18 | 80 | 0.12 | 20.3 | 95 | 2.1 |
| A2018334 | | 0.009 | 0.68 | 0.56 | 56 | 0.06 | 6.53 | 53 | 0.7 |
| A2018335 | | 0.028 | 0.44 | 0.79 | 69 | 0.08 | 25.5 | 86 | 0.8 |
| A2018336 | | 0.006 | 0.71 | 0.36 | 47 | 0.07 | 4.22 | 46 | 0.6 |
| A2018337 | | <0.005 | 0.95 | 0.44 | 39 | <0.05 | 16.70 | 129 | 0.8 |
| A2018338 | | 0.006 | 0.64 | 0.45 | 50 | 0.05 | 9.79 | 101 | 0.5 |
| A2018339 | | 0.007 | 1.29 | 0.60 | 54 | 0.05 | 14.75 | 114 | 1.2 |
| A2018340 | | 0.009 | 1.72 | 0.47 | 56 | 0.07 | 7.46 | 67 | 1.4 |
| A2018341 | | 0.040 | 0.08 | 0.66 | 83 | <0.05 | 21.6 | 70 | 4.3 |
| A2018342 | | 0.025 | 0.46 | 1.15 | 79 | <0.05 | 14.95 | 49 | 3.8 |
| A2018343 | | 0.197 | 1.22 | 1.54 | 140 | 0.08 | 34.3 | 328 | 8.2 |
| A2018344 | | 0.130 | 1.07 | 1.14 | 156 | 0.07 | 25.1 | 154 | 3.6 |
| A2018345 | | 0.048 | 0.06 | 1.01 | 119 | <0.05 | 23.3 | 119 | 3.8 |
| A2018346 | | 0.209 | 0.03 | 1.02 | 133 | 0.10 | 21.3 | 105 | 7.0 |
| A2018347 | | 0.120 | 0.30 | 0.91 | 127 | 0.06 | 20.5 | 93 | 7.7 |
| A2018348 | | 0.358 | 0.39 | 1.67 | 223 | 0.18 | 22.2 | 300 | 10.8 |
| A2018349 | | 0.312 | 0.65 | 1.01 | 215 | 0.09 | 23.1 | 93 | 11.6 |
| A2018350 | | 0.096 | 0.49 | 0.89 | 140 | <0.05 | 25.3 | 123 | 9.0 |
| A2018364 | | <0.005 | 0.15 | 1.11 | 42 | 0.06 | 13.85 | 60 | 1.2 |
| A2018365 | | 0.057 | 0.17 | 1.45 | 125 | 0.11 | 11.10 | 94 | 1.4 |
| A2018366 | | 0.014 | 0.51 | 1.30 | 50 | 0.07 | 10.40 | 54 | 0.8 |
| A2018367 | | 0.090 | 0.12 | 1.03 | 145 | 0.14 | 34.0 | 124 | 3.3 |
| A2018368 | | 0.121 | 0.07 | 0.99 | 144 | 0.15 | 34.3 | 80 | 2.4 |
| A2018369 | | 0.180 | 0.16 | 1.35 | 151 | 0.11 | 30.4 | 101 | 2.8 |
| A2018370 | | 0.259 | 0.03 | 1.00 | 179 | 0.14 | 26.3 | 87 | 9.1 |
| A2018371 | | 0.158 | 0.02 | 0.66 | 120 | 0.11 | 19.70 | 75 | 6.0 |
| A2018372 | | 0.256 | 0.04 | 1.26 | 166 | 0.25 | 31.5 | 96 | 8.9 |
| A2018373 | | 0.247 | 0.03 | 1.24 | 191 | 0.14 | 27.7 | 101 | 7.6 |
| A2018374 | | 0.029 | 0.24 | 0.71 | 91 | 0.11 | 14.00 | 90 | 0.8 |

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

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**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method | WEI-21 | Au-ICP21 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Ag | Al | As | Au | B | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| | Units | kg | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | LOR | 0.02 | 0.001 | 0.01 | 0.01 | 0.1 | 0.2 | 10 | 10 | 0.05 | 0.01 | 0.01 | 0.01 | 0.02 | 0.1 | 1 |
| A2018375 | | 0.58 | 0.018 | 0.12 | 1.00 | 15.6 | <0.2 | <10 | 220 | 0.78 | 0.07 | 1.55 | 0.22 | 31.0 | 19.6 | 4 |
| A2018376 | | 0.52 | 0.084 | 0.38 | 2.52 | 61.1 | <0.2 | <10 | 440 | 1.39 | 0.30 | 0.51 | 0.30 | 50.5 | 12.7 | 9 |
| A2018377 | | 0.82 | 0.384 | 0.71 | 1.68 | 66.2 | 0.9 | <10 | 1510 | 0.95 | 0.43 | 0.54 | 0.69 | 42.4 | 19.2 | 11 |
| A2018378 | | 0.54 | 0.034 | 0.35 | 2.44 | 41.6 | <0.2 | <10 | 880 | 1.24 | 0.32 | 0.68 | 0.24 | 38.6 | 13.8 | 13 |
| A2018392 | | 0.50 | 0.004 | 0.11 | 1.45 | 46.7 | <0.2 | <10 | 560 | 0.50 | 0.12 | 0.48 | 0.08 | 27.2 | 6.9 | 1 |
| A2018393 | | 0.60 | 0.001 | 0.12 | 1.89 | 4.7 | <0.2 | <10 | 830 | 0.72 | 0.04 | 0.95 | 0.19 | 37.0 | 13.2 | 1 |
| A2018394 | | 0.52 | 0.004 | 0.13 | 2.98 | 7.1 | <0.2 | <10 | 630 | 1.00 | 0.07 | 0.41 | 0.26 | 38.0 | 15.3 | 3 |
| A2018395 | | 0.40 | 0.009 | 0.22 | 2.77 | 6.4 | <0.2 | <10 | 550 | 0.92 | 0.08 | 0.35 | 0.32 | 31.4 | 13.0 | 3 |
| A2018396 | | 0.54 | 0.001 | 0.16 | 2.91 | 11.0 | <0.2 | <10 | 1030 | 1.14 | 0.10 | 0.39 | 0.21 | 32.3 | 12.8 | 5 |
| A2018397 | | 0.54 | 0.001 | 0.10 | 1.06 | 4.2 | <0.2 | <10 | 1150 | 0.45 | 0.03 | 0.52 | 0.14 | 16.15 | 6.2 | <1 |
| A2018398 | | 0.46 | 0.001 | 0.10 | 0.96 | 5.1 | <0.2 | <10 | 600 | 0.33 | 0.03 | 0.49 | 0.11 | 12.80 | 5.0 | <1 |
| A2018399 | | 0.60 | 0.001 | 0.15 | 1.64 | 2.3 | <0.2 | <10 | 380 | 0.62 | 0.02 | 1.09 | 0.09 | 40.1 | 8.3 | <1 |
| A2018400 | | 0.68 | 0.002 | 0.15 | 1.30 | 15.5 | <0.2 | <10 | 560 | 0.50 | 0.01 | 0.80 | 0.27 | 30.5 | 12.4 | <1 |
| A2018501 | | 0.64 | 0.027 | 0.15 | 1.08 | 32.1 | <0.2 | 10 | 530 | 1.12 | 0.09 | 0.75 | 0.38 | 33.4 | 25.3 | 3 |
| A2018502 | | 0.68 | 0.003 | 0.14 | 1.14 | 33.5 | <0.2 | 10 | 660 | 1.00 | 0.09 | 0.85 | 0.30 | 36.4 | 22.0 | 4 |
| A2018503 | | 0.68 | 0.002 | 0.12 | 1.49 | 20.0 | <0.2 | <10 | 440 | 0.90 | 0.08 | 1.05 | 0.27 | 28.9 | 20.4 | 2 |
| A2018504 | | 0.58 | 0.001 | 0.11 | 1.61 | 6.9 | <0.2 | <10 | 670 | 0.69 | 0.04 | 0.91 | 0.27 | 40.3 | 15.1 | 1 |
| A2018505 | | 0.78 | 0.014 | 0.14 | 1.50 | 7.8 | <0.2 | <10 | 780 | 0.80 | 0.04 | 1.12 | 0.22 | 43.0 | 14.9 | 3 |
| A2018506 | | 0.68 | 0.001 | 0.16 | 1.73 | 3.9 | <0.2 | <10 | 590 | 0.82 | 0.02 | 0.91 | 0.34 | 44.9 | 11.0 | 1 |
| A2018507 | | 0.50 | 0.119 | 0.36 | 2.46 | 73.0 | <0.2 | <10 | 300 | 1.18 | 0.30 | 0.29 | 0.33 | 66.4 | 19.5 | 5 |
| A2018508 | | 0.66 | 0.154 | 0.19 | 1.73 | 12.2 | <0.2 | <10 | 970 | 0.96 | 0.10 | 0.70 | 0.42 | 38.9 | 20.3 | 2 |
| A2018509 | | 0.64 | 0.010 | 0.14 | 1.52 | 6.9 | <0.2 | <10 | 840 | 0.96 | 0.04 | 0.76 | 0.38 | 38.9 | 20.7 | 2 |
| A2018510 | | 0.76 | 0.120 | 0.13 | 1.59 | 10.5 | <0.2 | <10 | 870 | 1.25 | 0.32 | 0.73 | 0.26 | 41.7 | 20.5 | 18 |
| A2018511 | | 0.40 | 0.002 | 0.08 | 3.36 | 15.3 | <0.2 | <10 | 250 | 3.40 | 0.26 | 0.12 | 0.21 | 92.3 | 6.9 | 7 |
| A2018512 | | 0.46 | 0.028 | 0.16 | 2.37 | 36.7 | <0.2 | <10 | 530 | 0.94 | 0.24 | 0.31 | 0.13 | 31.1 | 15.2 | 7 |
| A2018513 | | 0.70 | 0.014 | 0.36 | 3.74 | 16.8 | <0.2 | <10 | 1120 | 1.26 | 0.12 | 2.03 | 0.49 | 38.1 | 17.6 | 6 |
| A2018514 | | 0.60 | 0.015 | 0.34 | 3.71 | 15.9 | <0.2 | <10 | 1100 | 1.22 | 0.12 | 1.99 | 0.48 | 37.5 | 18.3 | 5 |
| A2018515 | | 0.72 | 0.003 | 0.26 | 1.42 | 10.0 | <0.2 | <10 | 950 | 0.86 | 0.02 | 1.51 | 0.42 | 44.0 | 15.3 | 1 |
| A2018516 | | 0.64 | 0.001 | 0.11 | 1.90 | 4.2 | <0.2 | <10 | 510 | 0.81 | 0.03 | 1.38 | 0.22 | 41.4 | 12.4 | 1 |
| A2018517 | | 0.80 | 0.002 | 0.32 | 3.27 | 48.7 | <0.2 | <10 | 310 | 0.92 | 0.02 | 2.54 | 0.43 | 39.2 | 22.0 | 1 |
| A2018518 | | 0.74 | 0.001 | 0.10 | 1.35 | 13.1 | <0.2 | <10 | 360 | 0.77 | 0.04 | 1.03 | 0.21 | 34.9 | 16.6 | 1 |
| A2018519 | | 0.66 | 0.003 | 0.25 | 2.74 | 13.9 | <0.2 | <10 | 600 | 1.07 | 0.03 | 2.21 | 0.65 | 47.1 | 17.9 | 3 |
| A2018520 | | 0.70 | 0.005 | 0.36 | 2.56 | 10.6 | <0.2 | <10 | 1640 | 0.69 | 0.02 | 2.08 | 0.62 | 55.1 | 20.6 | 3 |
| A2018521 | | 0.68 | <0.001 | 0.11 | 1.48 | 3.2 | <0.2 | <10 | 690 | 0.76 | 0.03 | 1.58 | 0.14 | 35.5 | 15.2 | <1 |
| A2018522 | | 0.54 | 0.001 | 0.12 | 3.76 | 39.3 | <0.2 | <10 | 280 | 1.97 | 0.04 | 0.71 | 0.41 | 44.9 | 16.7 | 1 |
| A2018523 | | 0.50 | 0.003 | 0.14 | 1.86 | 56.3 | <0.2 | <10 | 800 | 0.90 | 0.07 | 0.74 | 0.13 | 31.3 | 13.2 | 2 |
| A2018524 | | 0.72 | 0.001 | 0.15 | 0.86 | 107.0 | <0.2 | <10 | 220 | 0.32 | 0.03 | 0.10 | 0.04 | 14.95 | 4.7 | 1 |
| A2018525 | | 0.54 | 0.170 | 0.48 | 2.25 | 96.6 | <0.2 | <10 | 220 | 0.96 | 0.18 | 0.09 | 0.33 | 33.2 | 16.9 | 13 |
| A2018526 | | 0.68 | 0.004 | 0.12 | 2.90 | 9.2 | <0.2 | <10 | 830 | 1.02 | 0.03 | 1.22 | 0.22 | 47.3 | 19.2 | 1 |
| A2018527 | | 0.78 | 0.004 | 0.10 | 2.30 | 5.4 | <0.2 | <10 | 780 | 0.90 | 0.04 | 1.16 | 0.13 | 44.9 | 16.6 | 1 |

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

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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Cs ppm 0.05 | ME-MS41 Cu ppm 0.2 | ME-MS41 Fe % 0.01 | ME-MS41 Ga ppm 0.05 | ME-MS41 Ge ppm 0.05 | ME-MS41 Hf ppm 0.02 | ME-MS41 Hg ppm 0.01 | ME-MS41 In ppm 0.005 | ME-MS41 K % 0.01 | ME-MS41 La ppm 0.2 | ME-MS41 Li ppm 0.1 | ME-MS41 Mg % 0.01 | ME-MS41 Mn ppm 5 | ME-MS41 Mo ppm 0.05 | ME-MS41 Na % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018375 | | 1.21 | 44.1 | 6.23 | 3.53 | 0.06 | 0.07 | 1.49 | 0.042 | 0.15 | 14.6 | 7.6 | 0.31 | 1440 | 1.22 | 0.01 |
| A2018376 | | 1.35 | 23.8 | 6.19 | 7.97 | 0.08 | 0.04 | 0.27 | 0.054 | 0.08 | 26.8 | 11.1 | 0.44 | 1350 | 4.30 | 0.01 |
| A2018377 | | 0.83 | 40.1 | 6.43 | 5.63 | 0.07 | 0.04 | 0.53 | 0.042 | 0.13 | 20.3 | 8.2 | 0.53 | 3120 | 2.60 | 0.01 |
| A2018378 | | 0.95 | 28.4 | 5.03 | 8.02 | 0.06 | 0.04 | 0.24 | 0.049 | 0.11 | 23.7 | 13.1 | 0.66 | 1460 | 3.97 | 0.02 |
| A2018392 | | 0.47 | 9.8 | 3.35 | 3.66 | <0.05 | 0.02 | 0.47 | 0.035 | 0.15 | 12.9 | 4.8 | 0.20 | 747 | 1.09 | 0.04 |
| A2018393 | | 0.90 | 12.8 | 4.76 | 6.70 | 0.07 | 0.06 | 0.60 | 0.038 | 0.14 | 19.1 | 10.3 | 0.62 | 1620 | 0.70 | 0.04 |
| A2018394 | | 1.43 | 14.2 | 5.03 | 8.58 | <0.05 | 0.03 | 0.16 | 0.053 | 0.15 | 15.1 | 13.4 | 0.65 | 2010 | 1.14 | 0.02 |
| A2018395 | | 0.95 | 11.8 | 4.29 | 8.00 | <0.05 | 0.02 | 0.10 | 0.056 | 0.11 | 13.2 | 11.1 | 0.50 | 3220 | 1.42 | 0.02 |
| A2018396 | | 1.07 | 14.2 | 4.51 | 8.34 | <0.05 | 0.02 | 0.08 | 0.057 | 0.11 | 12.9 | 9.2 | 0.47 | 1720 | 1.50 | 0.02 |
| A2018397 | | 2.16 | 7.0 | 3.18 | 2.93 | <0.05 | 0.03 | 1.12 | 0.016 | 0.20 | 6.0 | 3.2 | 0.10 | 466 | 0.46 | 0.03 |
| A2018398 | | 2.04 | 6.3 | 3.22 | 2.81 | <0.05 | 0.03 | 1.42 | 0.013 | 0.23 | 4.6 | 2.5 | 0.09 | 320 | 0.48 | 0.04 |
| A2018399 | | 1.05 | 9.9 | 3.78 | 5.27 | 0.05 | 0.19 | 0.01 | 0.031 | 0.08 | 18.7 | 10.0 | 0.69 | 1600 | 0.48 | 0.04 |
| A2018400 | | 1.03 | 11.4 | 3.26 | 4.31 | <0.05 | 0.05 | 0.86 | 0.028 | 0.16 | 13.9 | 5.2 | 0.36 | 1090 | 3.26 | 0.03 |
| A2018501 | | 2.45 | 82.1 | 4.98 | 3.45 | 0.05 | 0.07 | 3.74 | 0.032 | 0.26 | 14.8 | 7.0 | 0.21 | 2020 | 1.91 | 0.03 |
| A2018502 | | 1.88 | 71.5 | 5.65 | 3.92 | 0.07 | 0.04 | 19.75 | 0.034 | 0.22 | 17.1 | 7.4 | 0.24 | 2210 | 1.85 | 0.02 |
| A2018503 | | 1.43 | 47.9 | 5.03 | 4.42 | 0.05 | 0.08 | 2.57 | 0.039 | 0.21 | 13.0 | 6.5 | 0.27 | 1440 | 1.13 | 0.02 |
| A2018504 | | 1.17 | 19.7 | 4.25 | 5.33 | 0.05 | 0.08 | 1.78 | 0.040 | 0.19 | 19.5 | 6.8 | 0.41 | 2060 | 0.72 | 0.02 |
| A2018505 | | 1.13 | 23.2 | 5.60 | 6.06 | 0.07 | 0.15 | 3.25 | 0.039 | 0.16 | 20.3 | 8.2 | 0.49 | 1900 | 0.95 | 0.02 |
| A2018506 | | 0.59 | 14.2 | 3.83 | 6.98 | 0.05 | 0.12 | 0.30 | 0.040 | 0.18 | 21.7 | 10.5 | 0.80 | 1870 | 0.62 | 0.01 |
| A2018507 | | 0.92 | 28.6 | 6.76 | 7.32 | 0.07 | 0.06 | 0.24 | 0.053 | 0.09 | 17.6 | 9.5 | 0.53 | 2170 | 2.40 | 0.01 |
| A2018508 | | 2.17 | 20.9 | 5.50 | 6.38 | 0.07 | 0.05 | 0.27 | 0.054 | 0.17 | 18.4 | 13.8 | 0.72 | 4270 | 1.92 | 0.01 |
| A2018509 | | 1.43 | 20.3 | 6.09 | 5.71 | 0.07 | 0.04 | 0.37 | 0.072 | 0.17 | 18.0 | 10.1 | 0.58 | 3470 | 1.27 | 0.01 |
| A2018510 | | 1.37 | 56.0 | 4.04 | 4.91 | 0.07 | 0.03 | 0.47 | 0.033 | 0.22 | 19.8 | 12.4 | 0.49 | 2320 | 2.33 | 0.01 |
| A2018511 | | 1.29 | 13.7 | 4.90 | 20.2 | 0.09 | 0.30 | 0.08 | 0.101 | 0.08 | 36.0 | 13.5 | 0.18 | 1460 | 2.59 | 0.04 |
| A2018512 | | 0.78 | 18.5 | 5.27 | 7.53 | <0.05 | 0.03 | 0.12 | 0.044 | 0.10 | 11.6 | 11.3 | 0.49 | 1520 | 1.40 | 0.01 |
| A2018513 | | 0.72 | 35.2 | 5.49 | 15.65 | 0.08 | 0.20 | 0.22 | 0.060 | 0.16 | 21.5 | 24.4 | 1.19 | 2810 | 1.34 | 0.02 |
| A2018514 | | 0.63 | 35.1 | 5.53 | 15.65 | 0.09 | 0.24 | 0.13 | 0.058 | 0.15 | 20.6 | 24.0 | 1.19 | 2800 | 1.24 | 0.02 |
| A2018515 | | 0.96 | 19.3 | 3.83 | 6.26 | 0.08 | 0.09 | 0.59 | 0.042 | 0.18 | 21.1 | 13.0 | 0.76 | 2220 | 0.76 | 0.02 |
| A2018516 | | 0.81 | 12.9 | 4.17 | 7.78 | 0.10 | 0.17 | 0.33 | 0.036 | 0.15 | 19.8 | 9.6 | 0.58 | 1600 | 0.76 | 0.02 |
| A2018517 | | 0.73 | 15.9 | 5.75 | 13.95 | 0.11 | 0.14 | 2.28 | 0.034 | 0.17 | 18.9 | 11.1 | 0.45 | 2700 | 7.22 | 0.04 |
| A2018518 | | 1.04 | 20.8 | 3.93 | 4.37 | 0.06 | 0.08 | 1.12 | 0.034 | 0.16 | 16.3 | 7.9 | 0.36 | 1180 | 0.68 | 0.02 |
| A2018519 | | 0.97 | 23.3 | 4.66 | 13.50 | 0.12 | 0.19 | 0.61 | 0.038 | 0.18 | 23.6 | 13.0 | 0.61 | 2740 | 2.17 | 0.05 |
| A2018520 | | 1.04 | 21.4 | 5.02 | 12.35 | 0.12 | 0.11 | 0.85 | 0.043 | 0.20 | 28.2 | 8.7 | 0.82 | 3100 | 1.88 | 0.04 |
| A2018521 | | 1.38 | 12.4 | 3.45 | 4.37 | 0.06 | 0.08 | 2.18 | 0.034 | 0.19 | 16.2 | 6.5 | 0.32 | 1230 | 0.42 | 0.01 |
| A2018522 | | 1.88 | 43.3 | 9.72 | 4.23 | 0.10 | 0.08 | 1.17 | 0.081 | 0.21 | 17.5 | 8.8 | 0.22 | 1050 | 1.07 | 0.02 |
| A2018523 | | 1.16 | 22.0 | 3.61 | 5.42 | 0.05 | 0.04 | 0.76 | 0.045 | 0.20 | 12.8 | 7.5 | 0.18 | 764 | 1.27 | 0.06 |
| A2018524 | | 1.28 | 11.4 | 4.23 | 2.91 | <0.05 | 0.02 | 1.60 | 0.027 | 0.31 | 7.5 | 2.1 | 0.05 | 203 | 1.62 | 0.08 |
| A2018525 | | 0.81 | 69.4 | 6.61 | 6.18 | <0.05 | 0.03 | 0.27 | 0.045 | 0.10 | 12.2 | 9.2 | 0.33 | 1840 | 2.50 | 0.01 |
| A2018526 | | 1.23 | 27.6 | 6.64 | 13.70 | 0.14 | 0.22 | 0.14 | 0.063 | 0.14 | 24.4 | 26.6 | 1.63 | 1380 | 0.69 | 0.02 |
| A2018527 | | 2.22 | 18.7 | 4.49 | 9.59 | 0.12 | 0.32 | 0.14 | 0.048 | 0.19 | 19.8 | 20.8 | 0.93 | 1050 | 0.35 | 0.02 |

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

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VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Nb<br>ppm<br>0.05 | ME-MS41<br>Ni<br>ppm<br>0.2 | ME-MS41<br>P<br>ppm<br>10 | ME-MS41<br>Pb<br>ppm<br>0.2 | ME-MS41<br>Rb<br>ppm<br>0.1 | ME-MS41<br>Re<br>ppm<br>0.001 | ME-MS41<br>S<br>%<br>0.01 | ME-MS41<br>Sb<br>ppm<br>0.05 | ME-MS41<br>Sc<br>ppm<br>0.1 | ME-MS41<br>Se<br>ppm<br>0.2 | ME-MS41<br>Sn<br>ppm<br>0.2 | ME-MS41<br>Sr<br>ppm<br>0.2 | ME-MS41<br>Ta<br>ppm<br>0.01 | ME-MS41<br>Te<br>ppm<br>0.01 | ME-MS41<br>Th<br>ppm<br>0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018375 | | 0.06 | 4.7 | 2430 | 9.8 | 4.9 | <0.001 | 0.52 | 1.52 | 8.5 | 0.9 | 0.4 | 86.3 | <0.01 | 0.07 | 2.8 |
| A2018376 | | 3.01 | 4.5 | 1720 | 12.6 | 9.1 | 0.005 | 0.07 | 2.01 | 3.8 | 2.2 | 1.1 | 34.2 | 0.02 | 0.12 | 0.3 |
| A2018377 | | 0.80 | 6.2 | 1780 | 16.2 | 5.8 | 0.004 | 0.07 | 3.70 | 7.7 | 3.5 | 0.6 | 68.6 | <0.01 | 0.19 | 1.5 |
| A2018378 | | 3.91 | 6.3 | 1470 | 15.6 | 8.9 | 0.002 | 0.04 | 1.41 | 4.8 | 2.0 | 1.1 | 85.5 | 0.02 | 0.12 | 0.5 |
| A2018392 | | 0.24 | 0.9 | 1510 | 11.7 | 3.6 | <0.001 | 0.29 | 0.21 | 4.8 | 1.4 | 0.7 | 103.0 | <0.01 | 0.11 | 1.0 |
| A2018393 | | 0.91 | 1.4 | 1850 | 7.7 | 4.0 | <0.001 | 0.03 | 1.57 | 8.6 | 0.6 | 0.7 | 68.7 | <0.01 | 0.01 | 1.2 |
| A2018394 | | 1.45 | 2.7 | 1560 | 8.6 | 8.0 | <0.001 | 0.05 | 0.61 | 4.6 | 0.5 | 1.0 | 51.5 | 0.01 | 0.03 | 0.2 |
| A2018395 | | 1.82 | 2.7 | 1660 | 7.2 | 8.1 | <0.001 | 0.11 | 0.46 | 1.7 | 0.7 | 1.0 | 47.6 | 0.01 | 0.02 | <0.2 |
| A2018396 | | 3.36 | 4.3 | 1470 | 7.9 | 8.7 | <0.001 | 0.12 | 0.61 | 2.0 | 0.6 | 1.2 | 61.7 | 0.01 | 0.04 | <0.2 |
| A2018397 | | 0.07 | 0.5 | 1160 | 6.6 | 5.6 | <0.001 | 0.17 | 0.65 | 5.2 | 0.3 | 0.4 | 121.0 | <0.01 | <0.01 | 2.5 |
| A2018398 | | 0.05 | 0.5 | 980 | 7.3 | 6.0 | <0.001 | 0.25 | 0.66 | 5.0 | 0.4 | 0.5 | 144.5 | <0.01 | <0.01 | 2.2 |
| A2018399 | | 0.14 | 0.7 | 1640 | 4.1 | 2.6 | <0.001 | <0.01 | 0.21 | 8.1 | 0.5 | 0.8 | 71.9 | <0.01 | 0.01 | 2.3 |
| A2018400 | | 0.06 | 0.8 | 1490 | 11.1 | 3.5 | <0.001 | 0.16 | 0.58 | 6.8 | 0.5 | 0.4 | 74.6 | <0.01 | 0.01 | 1.4 |
| A2018501 | | 0.07 | 6.4 | 2210 | 13.9 | 9.9 | 0.001 | 0.25 | 1.92 | 7.4 | 1.0 | 0.5 | 101.0 | <0.01 | 0.03 | 5.0 |
| A2018502 | | 0.22 | 5.9 | 2270 | 13.1 | 8.2 | <0.001 | 0.21 | 2.60 | 7.6 | 1.0 | 0.6 | 85.0 | <0.01 | 0.03 | 4.0 |
| A2018503 | | <0.05 | 3.8 | 1840 | 9.9 | 5.7 | <0.001 | 0.24 | 1.72 | 8.8 | 0.8 | 0.6 | 130.0 | <0.01 | 0.02 | 2.9 |
| A2018504 | | 0.10 | 1.7 | 1950 | 7.7 | 5.2 | <0.001 | 0.11 | 0.73 | 8.5 | 0.7 | 0.7 | 75.7 | <0.01 | 0.01 | 2.0 |
| A2018505 | | 0.10 | 2.9 | 2230 | 10.4 | 5.0 | <0.001 | 0.11 | 1.24 | 8.3 | 0.8 | 0.7 | 76.3 | <0.01 | 0.01 | 2.4 |
| A2018506 | | 0.61 | 1.3 | 1950 | 7.7 | 5.7 | <0.001 | 0.01 | 0.83 | 7.9 | 0.7 | 0.8 | 44.5 | 0.01 | <0.01 | 1.3 |
| A2018507 | | 4.74 | 4.9 | 1930 | 16.0 | 6.6 | 0.001 | 0.05 | 2.46 | 6.2 | 2.4 | 1.0 | 28.7 | 0.05 | 0.12 | 1.1 |
| A2018508 | | 0.62 | 3.2 | 1550 | 6.9 | 9.1 | 0.001 | 0.04 | 0.60 | 13.0 | 1.6 | 0.6 | 30.9 | <0.01 | 0.03 | 1.0 |
| A2018509 | | 0.38 | 2.3 | 1730 | 8.1 | 7.6 | 0.001 | 0.04 | 0.33 | 13.5 | 1.6 | 0.6 | 26.8 | <0.01 | 0.01 | 1.2 |
| A2018510 | | 0.26 | 9.4 | 1640 | 18.1 | 10.0 | <0.001 | 0.03 | 0.52 | 7.6 | 1.0 | 0.6 | 36.4 | <0.01 | 0.08 | 4.2 |
| A2018511 | | 40.2 | 5.1 | 1090 | 13.1 | 9.0 | <0.001 | 0.11 | 0.76 | 1.8 | 2.0 | 6.1 | 11.0 | 0.43 | 0.04 | 0.4 |
| A2018512 | | 2.36 | 3.4 | 1430 | 12.3 | 8.0 | <0.001 | 0.07 | 1.35 | 3.7 | 1.2 | 0.8 | 49.3 | 0.01 | 0.13 | 0.3 |
| A2018513 | | 3.65 | 5.3 | 1840 | 9.7 | 6.5 | <0.001 | 0.07 | 0.92 | 14.5 | 1.4 | 0.9 | 239 | 0.03 | 0.07 | 1.1 |
| A2018514 | | 3.93 | 5.0 | 1820 | 9.3 | 5.9 | <0.001 | 0.07 | 0.69 | 14.6 | 1.4 | 1.0 | 238 | 0.04 | 0.07 | 1.0 |
| A2018515 | | 0.26 | 1.3 | 1930 | 22.6 | 5.9 | <0.001 | 0.04 | 1.27 | 8.6 | 0.9 | 0.5 | 155.5 | <0.01 | <0.01 | 1.6 |
| A2018516 | | 0.64 | 1.4 | 1910 | 9.1 | 4.9 | <0.001 | 0.02 | 1.40 | 8.0 | 0.9 | 0.7 | 95.3 | 0.01 | 0.01 | 1.6 |
| A2018517 | | 0.38 | 1.1 | 1570 | 15.4 | 3.6 | 0.001 | 0.08 | 32.5 | 8.1 | 1.2 | 0.7 | 246 | <0.01 | 0.01 | 1.2 |
| A2018518 | | 0.11 | 1.3 | 2020 | 8.1 | 4.4 | <0.001 | 0.31 | 1.09 | 6.9 | 0.9 | 0.5 | 97.0 | <0.01 | 0.01 | 2.2 |
| A2018519 | | 0.73 | 2.9 | 1550 | 20.8 | 4.8 | <0.001 | 0.06 | 3.64 | 9.9 | 1.2 | 0.7 | 207 | 0.01 | <0.01 | 1.7 |
| A2018520 | | 1.06 | 2.4 | 1860 | 24.3 | 5.6 | <0.001 | 0.06 | 6.05 | 10.6 | 1.3 | 0.7 | 208 | 0.01 | 0.01 | 1.5 |
| A2018521 | | <0.05 | 0.4 | 1830 | 7.1 | 5.2 | <0.001 | 0.18 | 0.33 | 8.3 | 0.8 | 0.5 | 166.5 | <0.01 | <0.01 | 1.9 |
| A2018522 | | 0.07 | 1.2 | 2480 | 7.8 | 5.9 | 0.001 | 0.61 | 1.03 | 16.8 | 2.0 | 0.4 | 101.5 | <0.01 | 0.01 | 3.6 |
| A2018523 | | 2.36 | 2.2 | 1370 | 13.8 | 7.3 | 0.001 | 0.29 | 2.81 | 4.8 | 0.9 | 0.9 | 238 | 0.01 | 0.01 | 0.9 |
| A2018524 | | 0.06 | 0.7 | 1350 | 15.8 | 6.4 | 0.002 | 0.75 | 6.44 | 3.6 | 0.7 | 0.5 | 130.5 | <0.01 | 0.01 | 1.6 |
| A2018525 | | 2.47 | 7.1 | 1960 | 35.4 | 9.4 | <0.001 | 0.07 | 2.66 | 1.2 | 1.6 | 0.7 | 11.4 | 0.02 | 0.19 | 0.2 |
| A2018526 | | 1.96 | 1.3 | 1800 | 12.7 | 3.8 | <0.001 | 0.04 | 11.65 | 13.1 | 1.1 | 0.9 | 63.1 | 0.01 | <0.01 | 1.7 |
| A2018527 | | 0.77 | 1.2 | 1550 | 12.4 | 5.4 | <0.001 | 0.01 | 5.13 | 11.3 | 0.8 | 0.8 | 102.0 | 0.01 | 0.01 | 2.0 |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS41<br>Ti<br>%<br>0.005 | ME-MS41<br>Tl<br>ppm<br>0.02 | ME-MS41<br>U<br>ppm<br>0.05 | ME-MS41<br>V<br>ppm<br>1 | ME-MS41<br>W<br>ppm<br>0.05 | ME-MS41<br>Y<br>ppm<br>0.05 | ME-MS41<br>Zn<br>ppm<br>2 | ME-MS41<br>Zr<br>ppm<br>0.5 |
|---|---|---|---|---|---|---|---|---|---|
| A2018375 | | 0.024 | 0.23 | 0.89 | 104 | <0.05 | 21.3 | 101 | 2.7 |
| A2018376 | | 0.031 | 0.18 | 1.27 | 92 | 0.11 | 28.1 | 102 | 1.7 |
| A2018377 | | 0.051 | 0.38 | 0.96 | 92 | 0.08 | 21.7 | 108 | 2.4 |
| A2018378 | | 0.037 | 0.22 | 1.46 | 81 | 0.16 | 18.85 | 97 | 2.0 |
| A2018392 | | <0.005 | 0.15 | 0.36 | 42 | <0.05 | 12.50 | 46 | <0.5 |
| A2018393 | | 0.129 | 0.10 | 0.68 | 101 | 0.06 | 17.95 | 95 | 2.1 |
| A2018394 | | 0.044 | 0.13 | 0.76 | 100 | 0.06 | 16.40 | 100 | 1.0 |
| A2018395 | | 0.019 | 0.13 | 0.59 | 80 | 0.06 | 11.90 | 90 | 0.5 |
| A2018396 | | 0.037 | 0.13 | 0.66 | 78 | 0.08 | 12.65 | 78 | 1.2 |
| A2018397 | | 0.005 | 0.29 | 0.81 | 32 | <0.05 | 13.75 | 32 | 0.8 |
| A2018398 | | 0.005 | 0.49 | 0.58 | 30 | <0.05 | 10.25 | 26 | 0.8 |
| A2018399 | | 0.103 | 0.04 | 0.69 | 90 | <0.05 | 17.30 | 100 | 5.2 |
| A2018400 | | 0.011 | 0.36 | 0.57 | 36 | <0.05 | 13.25 | 45 | 1.2 |
| A2018501 | | 0.017 | 0.63 | 1.65 | 68 | 0.08 | 19.65 | 71 | 3.0 |
| A2018502 | | 0.026 | 0.57 | 1.58 | 95 | 0.08 | 22.1 | 89 | 1.6 |
| A2018503 | | 0.014 | 0.44 | 0.86 | 77 | <0.05 | 19.40 | 81 | 2.1 |
| A2018504 | | 0.025 | 0.16 | 0.64 | 74 | <0.05 | 20.6 | 79 | 2.8 |
| A2018505 | | 0.065 | 0.15 | 0.84 | 117 | 0.05 | 21.3 | 111 | 4.5 |
| A2018506 | | 0.042 | 0.09 | 0.68 | 90 | 0.05 | 21.3 | 79 | 3.9 |
| A2018507 | | 0.045 | 0.25 | 0.85 | 96 | 0.12 | 16.55 | 96 | 3.4 |
| A2018508 | | 0.009 | 0.13 | 0.43 | 106 | <0.05 | 28.2 | 93 | 1.5 |
| A2018509 | | 0.007 | 0.12 | 0.52 | 126 | <0.05 | 25.1 | 102 | 1.4 |
| A2018510 | | 0.021 | 0.22 | 1.53 | 70 | 0.07 | 16.55 | 69 | 1.4 |
| A2018511 | | 0.089 | 0.11 | 1.78 | 42 | 0.57 | 26.5 | 114 | 23.0 |
| A2018512 | | 0.030 | 0.16 | 0.64 | 83 | 0.07 | 9.33 | 75 | 0.9 |
| A2018513 | | 0.151 | 0.10 | 1.36 | 141 | 0.26 | 24.6 | 96 | 8.4 |
| A2018514 | | 0.145 | 0.10 | 1.33 | 140 | 0.23 | 23.8 | 96 | 10.4 |
| A2018515 | | 0.039 | 0.13 | 0.78 | 81 | 0.05 | 21.6 | 77 | 3.6 |
| A2018516 | | 0.175 | 0.11 | 0.83 | 98 | 0.09 | 19.50 | 81 | 7.2 |
| A2018517 | | 0.096 | 1.69 | 1.01 | 97 | 0.15 | 21.6 | 79 | 6.1 |
| A2018518 | | 0.017 | 0.26 | 0.61 | 55 | <0.05 | 18.35 | 72 | 3.0 |
| A2018519 | | 0.148 | 0.30 | 1.08 | 101 | 0.12 | 24.7 | 84 | 8.8 |
| A2018520 | | 0.158 | 0.34 | 1.02 | 124 | 0.15 | 31.0 | 94 | 4.6 |
| A2018521 | | 0.010 | 0.09 | 0.48 | 53 | <0.05 | 16.80 | 69 | 2.0 |
| A2018522 | | 0.005 | 0.54 | 1.82 | 50 | <0.05 | 32.4 | 61 | 1.6 |
| A2018523 | | 0.009 | 1.50 | 0.57 | 54 | <0.05 | 12.85 | 59 | 1.6 |
| A2018524 | | <0.005 | 3.90 | 0.40 | 28 | <0.05 | 9.64 | 22 | 0.7 |
| A2018525 | | 0.014 | 0.19 | 0.91 | 78 | 0.17 | 10.40 | 107 | 1.4 |
| A2018526 | | 0.277 | 0.27 | 0.87 | 120 | 0.13 | 19.40 | 134 | 11.8 |
| A2018527 | | 0.321 | 0.18 | 0.87 | 77 | 0.11 | 14.25 | 94 | 18.2 |

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**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg<br>0.02 | Au-ICP21<br>Au<br>ppm<br>0.001 | ME-MS41<br>Ag<br>ppm<br>0.01 | ME-MS41<br>Al<br>%<br>0.01 | ME-MS41<br>As<br>ppm<br>0.1 | ME-MS41<br>Au<br>ppm<br>0.2 | ME-MS41<br>B<br>ppm<br>10 | ME-MS41<br>Ba<br>ppm<br>10 | ME-MS41<br>Be<br>ppm<br>0.05 | ME-MS41<br>Bi<br>ppm<br>0.01 | ME-MS41<br>Ca<br>%<br>0.01 | ME-MS41<br>Cd<br>ppm<br>0.01 | ME-MS41<br>Ce<br>ppm<br>0.02 | ME-MS41<br>Co<br>ppm<br>0.1 | ME-MS41<br>Cr<br>ppm<br>1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018528 | | 0.74 | 0.003 | 0.09 | 2.46 | 3.5 | <0.2 | <10 | 3450 | 1.02 | 0.02 | 1.28 | 0.14 | 47.0 | 23.4 | 1 |
| A2018529 | | 0.72 | 0.002 | 0.10 | 2.23 | 4.3 | <0.2 | <10 | 1250 | 1.00 | 0.03 | 1.08 | 0.18 | 45.1 | 24.3 | 1 |
| A2018530 | | 0.74 | 0.001 | 0.10 | 2.05 | 4.5 | <0.2 | <10 | 750 | 0.95 | 0.02 | 1.00 | 0.21 | 40.7 | 24.8 | 1 |
| A2018531 | | 0.94 | 0.001 | 0.09 | 1.81 | 4.4 | <0.2 | <10 | 500 | 0.73 | 0.02 | 1.26 | 0.19 | 39.5 | 22.4 | 1 |
| A2018532 | | 0.72 | 0.001 | 0.09 | 2.08 | 3.7 | <0.2 | <10 | 780 | 0.84 | 0.02 | 1.49 | 0.22 | 38.8 | 29.6 | 1 |
| A2018533 | | 0.84 | <0.001 | 0.09 | 1.81 | 7.4 | <0.2 | <10 | 480 | 0.77 | 0.03 | 1.68 | 0.16 | 35.0 | 14.8 | 1 |
| A2018534 | | 0.64 | 0.001 | 0.08 | 2.15 | 4.7 | <0.2 | <10 | 690 | 0.92 | 0.07 | 1.49 | 0.25 | 34.9 | 23.9 | 1 |
| A2018535 | | 1.04 | 0.002 | 0.09 | 2.74 | 6.4 | <0.2 | <10 | 500 | 0.92 | 0.22 | 1.19 | 0.36 | 36.9 | 22.7 | 1 |

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Cs ppm 0.05 | ME-MS41 Cu ppm 0.2 | ME-MS41 Fe % 0.01 | ME-MS41 Ga ppm 0.05 | ME-MS41 Ge ppm 0.05 | ME-MS41 Hf ppm 0.02 | ME-MS41 Hg ppm 0.01 | ME-MS41 In ppm 0.005 | ME-MS41 K % 0.01 | ME-MS41 La ppm 0.2 | ME-MS41 Li ppm 0.1 | ME-MS41 Mg % 0.01 | ME-MS41 Mn ppm 5 | ME-MS41 Mo ppm 0.05 | ME-MS41 Na % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018528 | | 1.68 | 19.9 | 4.16 | 8.78 | 0.10 | 0.22 | 2.09 | 0.052 | 0.25 | 21.7 | 14.0 | 0.58 | 1440 | 0.32 | 0.01 |
| A2018529 | | 1.48 | 20.8 | 4.35 | 8.13 | 0.08 | 0.15 | 0.89 | 0.054 | 0.21 | 20.0 | 14.6 | 0.57 | 1890 | 0.41 | 0.02 |
| A2018530 | | 1.33 | 21.5 | 4.96 | 7.66 | 0.07 | 0.12 | 1.93 | 0.055 | 0.19 | 19.0 | 13.4 | 0.50 | 2030 | 0.57 | 0.02 |
| A2018531 | | 1.65 | 17.1 | 4.36 | 6.32 | 0.06 | 0.13 | 0.38 | 0.044 | 0.17 | 17.4 | 10.5 | 0.50 | 1890 | 0.43 | 0.03 |
| A2018532 | | 2.01 | 22.8 | 4.36 | 7.56 | 0.06 | 0.16 | 0.71 | 0.053 | 0.21 | 16.8 | 12.7 | 0.64 | 1520 | 0.72 | 0.03 |
| A2018533 | | 2.67 | 14.0 | 3.33 | 5.44 | 0.07 | 0.25 | 1.03 | 0.034 | 0.23 | 16.5 | 8.2 | 0.36 | 723 | 0.91 | 0.03 |
| A2018534 | | 3.64 | 17.7 | 5.36 | 8.16 | 0.08 | 0.34 | 0.34 | 0.054 | 0.22 | 16.2 | 14.9 | 0.80 | 1180 | 0.86 | 0.03 |
| A2018535 | | 2.43 | 18.3 | 7.08 | 10.10 | 0.09 | 0.34 | 0.11 | 0.084 | 0.24 | 17.3 | 21.1 | 1.15 | 1200 | 1.09 | 0.06 |

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**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method / Analyte / Units / LOR | ME-MS41 Nb ppm 0.05 | ME-MS41 Ni ppm 0.2 | ME-MS41 P ppm 10 | ME-MS41 Pb ppm 0.2 | ME-MS41 Rb ppm 0.1 | ME-MS41 Re ppm 0.001 | ME-MS41 S % 0.01 | ME-MS41 Sb ppm 0.05 | ME-MS41 Sc ppm 0.1 | ME-MS41 Se ppm 0.2 | ME-MS41 Sn ppm 0.2 | ME-MS41 Sr ppm 0.2 | ME-MS41 Ta ppm 0.01 | ME-MS41 Te ppm 0.01 | ME-MS41 Th ppm 0.2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2018528 | | 0.25 | 1.1 | 1700 | 10.6 | 5.7 | <0.001 | 0.02 | 1.32 | 14.8 | 0.9 | 0.8 | 109.0 | <0.01 | 0.01 | 2.1 |
| A2018529 | | 0.23 | 1.2 | 1780 | 10.8 | 5.0 | <0.001 | 0.01 | 1.31 | 15.5 | 0.9 | 0.8 | 80.0 | <0.01 | 0.01 | 2.0 |
| A2018530 | | 0.10 | 1.3 | 1770 | 9.2 | 5.2 | <0.001 | 0.14 | 1.31 | 16.2 | 1.3 | 0.7 | 87.3 | <0.01 | <0.01 | 2.0 |
| A2018531 | | 0.09 | 0.8 | 1740 | 8.2 | 5.2 | <0.001 | 0.25 | 1.56 | 11.9 | 0.8 | 0.6 | 100.5 | <0.01 | <0.01 | 1.8 |
| A2018532 | | 0.08 | 1.0 | 1680 | 8.6 | 5.7 | 0.001 | 0.08 | 0.49 | 15.7 | 1.0 | 0.7 | 197.0 | <0.01 | 0.01 | 2.1 |
| A2018533 | | 0.21 | 0.7 | 1810 | 8.2 | 6.1 | <0.001 | 0.34 | 1.47 | 9.6 | 1.2 | 0.6 | 303 | <0.01 | 0.10 | 2.2 |
| A2018534 | | 0.16 | 1.0 | 1730 | 7.7 | 7.6 | 0.001 | 0.30 | 0.25 | 16.7 | 1.6 | 0.7 | 126.0 | <0.01 | 0.22 | 2.0 |
| A2018535 | | 0.13 | 0.8 | 1860 | 11.0 | 7.7 | 0.008 | 0.33 | 0.19 | 18.3 | 3.4 | 1.0 | 167.0 | <0.01 | 0.23 | 1.8 |

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**VANCOUVER BC V6J 1V4**


**Finalized Date: 3-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149169

| Sample Description | Method | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 | ME-MS41 |
|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ti | Tl | U | V | W | Y | Zn | Zr |
| | Units | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOR | 0.005 | 0.02 | 0.05 | 1 | 0.05 | 0.05 | 2 | 0.5 |
| A2018528 | | 0.143 | 0.11 | 0.78 | 99 | <0.05 | 17.35 | 104 | 7.8 |
| A2018529 | | 0.084 | 0.16 | 0.70 | 90 | <0.05 | 18.30 | 98 | 5.3 |
| A2018530 | | 0.034 | 0.21 | 0.48 | 90 | <0.05 | 19.05 | 91 | 3.2 |
| A2018531 | | 0.044 | 0.23 | 0.47 | 76 | <0.05 | 16.35 | 81 | 3.0 |
| A2018532 | | 0.046 | 0.20 | 0.64 | 106 | <0.05 | 16.85 | 80 | 4.1 |
| A2018533 | | 0.075 | 0.24 | 0.90 | 62 | 0.05 | 16.35 | 56 | 7.0 |
| A2018534 | | 0.123 | 0.23 | 0.89 | 113 | <0.05 | 19.35 | 82 | 10.6 |
| A2018535 | | 0.106 | 0.30 | 0.89 | 132 | <0.05 | 18.70 | 114 | 10.4 |

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

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VANCOUVER BC V6J 1V4


Finalized Date: 3-OCT-2016
Account: RIDCOL

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149169

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).

Applies to Method: ME-MS41

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method: Au-ICP21 LOG-22 ME-MS41 SCR-41 WEI-21

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 6-OCT-2016**
**Account: RIDCOL**

# CERTIFICATE VA16149171

Project: HANK

This report is for 53 Rock samples submitted to our lab in Terrace, BC, Canada on 1-SEP-2016.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| MIKE BLADY | CHRIS PAUL | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-32 | Pulverize 1000g to 85% < 75 um |
| BAG-01 | Bulk Master for Storage |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES |
| Ag-OG46 | Ore Grade Ag - Aqua Regia | ICP-AES |
| ME-OG46 | Ore Grade Elements - AquaRegia | ICP-AES |
| Cu-OG46 | Ore Grade Cu - Aqua Regia | ICP-AES |
| Zn-OG46 | Ore Grade Zn - Aqua Regia | ICP-AES |
| Ag-GRA21 | Ag 30g FA-GRAV finish | WST-SIM |
| Au-AA25 | Ore Grade Au 30g FA AA finish | AAS |

To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**ATTN: CHRIS PAUL**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**

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

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

**Signature:**
Colin Ramshaw, Vancouver Laboratory Manager

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 6-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-AA25 Au ppm 0.01 | ME-ICP41 Ag ppm 0.2 | ME-ICP41 Al % 0.01 | ME-ICP41 As ppm 2 | ME-ICP41 B ppm 10 | ME-ICP41 Ba ppm 10 | ME-ICP41 Be ppm 0.5 | ME-ICP41 Bi ppm 2 | ME-ICP41 Ca % 0.01 | ME-ICP41 Cd ppm 0.5 | ME-ICP41 Co ppm 1 | ME-ICP41 Cr ppm 1 | ME-ICP41 Cu ppm 1 | ME-ICP41 Fe % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HANKMB001 | | 3.90 | <0.01 | <0.2 | 0.53 | 9 | 10 | 150 | <0.5 | <2 | 15.7 | 0.9 | 14 | 1 | 26 | 4.02 |
| A2012601 | | 1.02 | 0.02 | 0.2 | 0.82 | 7 | <10 | 50 | <0.5 | <2 | 0.13 | <0.5 | 14 | 1 | 6 | 4.11 |
| A2012608 | | 1.24 | <0.01 | <0.2 | 2.28 | 8 | <10 | 90 | <0.5 | <2 | 0.88 | <0.5 | 16 | 1 | 16 | 6.12 |
| A2012609 | | 2.28 | 0.10 | 0.8 | 0.19 | 163 | <10 | 110 | 0.5 | <2 | 18.0 | <0.5 | 8 | 6 | 56 | 5.58 |
| A2012610 | | 1.40 | 0.25 | 0.7 | 0.09 | 313 | <10 | 50 | <0.5 | 2 | 22.8 | <0.5 | 6 | 3 | 30 | 6.73 |
| A2012611 | | 1.32 | 0.01 | 0.5 | 2.04 | 21 | <10 | 80 | 0.7 | 2 | 8.6 | <0.5 | 25 | 28 | 157 | 5.78 |
| A2012612 | | 1.58 | <0.01 | 0.6 | 1.94 | 52 | 10 | 210 | 0.6 | <2 | 6.91 | <0.5 | 25 | 21 | 219 | 5.03 |
| A2012613 | | 1.10 | 0.01 | 0.8 | 0.41 | 36 | 10 | 60 | 0.6 | <2 | 18.7 | <0.5 | 13 | 14 | 85 | 3.93 |
| A2012614 | | 0.88 | 0.01 | 1.0 | 0.56 | 89 | 10 | 280 | 0.7 | <2 | 2.34 | <0.5 | 21 | 9 | 171 | 2.16 |
| A2012615 | | 0.74 | <0.01 | 0.2 | 0.06 | 19 | <10 | 60 | <0.5 | <2 | >25.0 | <0.5 | 2 | 2 | 10 | 1.88 |
| A2012616 | | 1.98 | 0.01 | 0.2 | 0.81 | 74 | 20 | 160 | 1.3 | <2 | 6.56 | <0.5 | 30 | 28 | 142 | 6.73 |
| A2012617 | | 1.28 | <0.01 | 0.3 | 0.64 | 323 | <10 | 10 | <0.5 | <2 | 0.10 | <0.5 | 12 | 1 | 32 | 23.5 |
| A2012618 | | 1.82 | 4.34 | 5.3 | 0.04 | 463 | <10 | 20 | <0.5 | <2 | 18.6 | <0.5 | <1 | <1 | 7 | 2.98 |
| A2012619 | | 2.28 | 0.44 | 5.6 | 0.15 | 137 | <10 | 30 | <0.5 | <2 | 15.4 | <0.5 | 11 | 4 | 19 | 2.74 |
| A2012620 | | 0.88 | 0.70 | 4.1 | 0.18 | 159 | <10 | 1600 | <0.5 | <2 | 0.12 | <0.5 | 1 | 9 | 17 | 2.35 |
| A2012621 | | 2.70 | 66.9 | 42.3 | 0.03 | 26 | <10 | 120 | <0.5 | <2 | >25.0 | 11.0 | <1 | <1 | 80 | 1.23 |
| A2012622 | | 1.62 | 7.07 | 7.3 | 0.06 | 324 | <10 | 40 | <0.5 | <2 | >25.0 | <0.5 | <1 | 1 | 16 | 1.96 |
| A2012623 | | 2.32 | 5.87 | >100 | 0.15 | 322 | <10 | 20 | <0.5 | <2 | 22.4 | 26.4 | <1 | 1 | 3230 | 3.10 |
| A2012624 | | 0.36 | 0.66 | 17.0 | 0.38 | 387 | <10 | 290 | <0.5 | <2 | 0.31 | 0.5 | 2 | 4 | 45 | 3.65 |
| A2012625 | | 1.26 | 0.03 | 1.0 | 0.66 | 5 | <10 | 460 | <0.5 | <2 | 0.09 | <0.5 | 1 | <1 | 12 | 6.58 |
| A2012626 | | 1.84 | <0.01 | 0.4 | 0.41 | 8 | <10 | 20 | <0.5 | <2 | 0.92 | <0.5 | 9 | 1 | 31 | 3.49 |
| A2012627 | | 0.80 | <0.01 | 0.3 | 0.36 | 4 | <10 | 70 | <0.5 | <2 | 7.01 | <0.5 | 9 | 1 | 11 | 2.82 |
| A2012628 | | 1.86 | <0.01 | 0.2 | 0.38 | 5 | <10 | 810 | <0.5 | <2 | 8.7 | <0.5 | 7 | 3 | 151 | 2.59 |
| A2012629 | | 1.36 | <0.01 | 0.2 | 0.26 | 7 | <10 | 70 | <0.5 | <2 | 11.9 | 0.7 | 12 | 1 | 28 | 2.76 |
| A2012630 | | 1.20 | <0.01 | 0.2 | 0.32 | 5 | <10 | 760 | <0.5 | <2 | 0.04 | <0.5 | 1 | 1 | 8 | 1.75 |
| A2012631 | | 1.42 | <0.01 | 1.0 | 0.55 | 6 | <10 | 30 | <0.5 | <2 | 2.23 | <0.5 | 12 | 1 | 10 | 3.45 |
| A2012632 | | 2.32 | 0.67 | 4.2 | 0.60 | 718 | <10 | 20 | <0.5 | <2 | 9.2 | <0.5 | 2 | 4 | 33 | 4.21 |
| A2012633 | | 2.76 | 0.36 | 1.3 | 1.49 | 25 | <10 | 50 | <0.5 | <2 | 3.28 | <0.5 | 9 | 5 | 6 | 3.82 |
| A2012634 | | 1.24 | 0.51 | 2.8 | 0.19 | 382 | <10 | 90 | <0.5 | <2 | 18.1 | 0.9 | 4 | 2 | 13 | 2.53 |
| A2018536 | | 3.66 | <0.01 | <0.2 | 3.34 | 6 | <10 | 570 | 1.0 | <2 | 4.72 | <0.5 | 9 | 1 | 9 | 4.33 |
| A2018537 | | 8.82 | <0.01 | <0.2 | 0.91 | 76 | <10 | 10 | <0.5 | 2 | 0.03 | <0.5 | 21 | 2 | 18 | 6.49 |
| A2018538 | | 3.16 | <0.01 | 0.4 | 0.10 | 16 | 10 | 200 | <0.5 | <2 | >25.0 | <0.5 | 2 | 4 | 15 | 1.37 |
| A2018539 | | 3.32 | 0.06 | 4.3 | 0.12 | 424 | <10 | 170 | <0.5 | <2 | 16.7 | 8.3 | 5 | 3 | 2210 | 3.35 |
| A2018540 | | 4.46 | 25.8 | >100 | 0.09 | 658 | <10 | 20 | <0.5 | <2 | 21.5 | 90.5 | <1 | 2 | >10000 | 3.14 |
| A2018541 | | 2.08 | 1.34 | 9.9 | 0.13 | 214 | <10 | 40 | <0.5 | <2 | >25.0 | 0.8 | 3 | <1 | 50 | 1.93 |
| A2018542 | | 2.06 | 0.04 | 5.8 | 0.04 | 4 | <10 | 2650 | <0.5 | <2 | 0.09 | <0.5 | <1 | 21 | 19 | 0.60 |
| A2018543 | | 1.84 | <0.01 | 0.5 | 1.39 | 5 | <10 | 20 | <0.5 | <2 | 0.93 | <0.5 | 13 | 1 | 19 | 5.36 |
| A2018201 | | 1.12 | <0.01 | 0.4 | 0.20 | 33 | 10 | 230 | <0.5 | <2 | 4.01 | <0.5 | 15 | 16 | 24 | 2.45 |
| A2018202 | | 0.66 | <0.01 | 0.6 | 2.36 | 11 | <10 | 130 | <0.5 | <2 | 1.89 | <0.5 | 32 | 47 | 103 | 5.71 |
| A2018203 | | 3.16 | 0.01 | 0.6 | 0.83 | 17 | <10 | 20 | <0.5 | <2 | 0.31 | <0.5 | 28 | 21 | 170 | 6.74 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 6-OCT-2016**
**Account: RIDCOL**

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41<br>Ga<br>ppm<br>10 | ME-ICP41<br>Hg<br>ppm<br>1 | ME-ICP41<br>K<br>%<br>0.01 | ME-ICP41<br>La<br>ppm<br>10 | ME-ICP41<br>Mg<br>%<br>0.01 | ME-ICP41<br>Mn<br>ppm<br>5 | ME-ICP41<br>Mo<br>ppm<br>1 | ME-ICP41<br>Na<br>%<br>0.01 | ME-ICP41<br>Ni<br>ppm<br>1 | ME-ICP41<br>P<br>ppm<br>10 | ME-ICP41<br>Pb<br>ppm<br>2 | ME-ICP41<br>S<br>%<br>0.01 | ME-ICP41<br>Sb<br>ppm<br>2 | ME-ICP41<br>Sc<br>ppm<br>1 | ME-ICP41<br>Sr<br>ppm<br>1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HANKMB001 | | <10 | 1 | 0.19 | 10 | 0.19 | 1580 | <1 | 0.01 | 3 | 1340 | 15 | 0.93 | <2 | 9 | 1015 |
| A2012601 | | <10 | <1 | 0.13 | 10 | 0.21 | 70 | 1 | 0.02 | 1 | 1650 | 31 | 3.37 | <2 | 2 | 23 |
| A2012608 | | 10 | <1 | 0.18 | 10 | 1.06 | 362 | <1 | 0.13 | 1 | 1260 | 8 | 2.62 | <2 | 13 | 173 |
| A2012609 | | <10 | <1 | 0.08 | 10 | 3.98 | 9120 | <1 | 0.01 | 5 | 610 | 9 | 1.09 | <2 | 8 | 386 |
| A2012610 | | <10 | 1 | 0.04 | <10 | 3.59 | 8150 | <1 | 0.01 | 4 | 290 | 13 | 2.86 | 4 | 4 | 411 |
| A2012611 | | 10 | <1 | 0.07 | 10 | 2.75 | 1245 | 1 | 0.03 | 20 | 1870 | 4 | 0.38 | 3 | 20 | 481 |
| A2012612 | | 10 | <1 | 0.15 | 10 | 2.19 | 1690 | <1 | 0.02 | 20 | 2230 | 4 | 0.92 | 3 | 14 | 352 |
| A2012613 | | <10 | 1 | 0.08 | 10 | 0.84 | 3000 | <1 | 0.01 | 13 | 1230 | 8 | 0.84 | 3 | 16 | 885 |
| A2012614 | | <10 | 1 | 0.26 | 10 | 0.09 | 635 | 1 | <0.01 | 18 | 2440 | 5 | 0.46 | 7 | 15 | 53 |
| A2012615 | | <10 | 2 | 0.03 | <10 | 0.33 | 2820 | <1 | 0.01 | 2 | 110 | <2 | 0.09 | <2 | 5 | 472 |
| A2012616 | | <10 | 1 | 0.15 | 10 | 1.88 | 1335 | <1 | 0.03 | 26 | 2150 | <2 | 0.11 | 2 | 30 | 298 |
| A2012617 | | <10 | 6 | 0.02 | <10 | 0.01 | 178 | 6 | <0.01 | 5 | 90 | 26 | >10.0 | 35 | 2 | 12 |
| A2012618 | | <10 | 2 | 0.01 | 10 | 0.18 | 7870 | <1 | <0.01 | <1 | 30 | 6 | 3.34 | 26 | 2 | 207 |
| A2012619 | | <10 | 2 | 0.07 | 10 | 0.30 | 8360 | 2 | <0.01 | 2 | 470 | 33 | 2.51 | 11 | 1 | 164 |
| A2012620 | | <10 | 1 | 0.11 | <10 | 0.02 | 122 | 1 | <0.01 | 1 | 630 | 10 | 0.13 | 4 | 1 | 85 |
| A2012621 | | <10 | 2 | 0.02 | 10 | 1.25 | 15650 | <1 | 0.01 | <1 | 30 | 25 | 0.60 | 28 | <1 | 800 |
| A2012622 | | <10 | 2 | 0.04 | 10 | 0.45 | 12050 | <1 | 0.01 | <1 | 100 | 7 | 1.84 | 30 | 2 | 192 |
| A2012623 | | <10 | 4 | 0.09 | 10 | 0.46 | 14000 | 1 | 0.01 | <1 | 80 | 1520 | 3.62 | 1295 | 1 | 468 |
| A2012624 | | <10 | 1 | 0.22 | <10 | 0.03 | 252 | 60 | <0.01 | 2 | 610 | 77 | 0.38 | 15 | 1 | 30 |
| A2012625 | | <10 | 1 | 0.21 | 10 | 0.24 | 267 | 1 | 0.03 | <1 | 1700 | 9 | 0.44 | <2 | 3 | 29 |
| A2012626 | | <10 | 2 | 0.20 | 10 | 0.08 | 363 | 1 | 0.01 | 2 | 860 | 13 | 2.86 | 2 | 1 | 76 |
| A2012627 | | <10 | <1 | 0.26 | 20 | 0.56 | 2320 | 2 | 0.02 | 2 | 770 | 8 | 1.98 | <2 | 2 | 165 |
| A2012628 | | <10 | <1 | 0.20 | 20 | 0.40 | 2870 | 1 | 0.02 | 2 | 730 | 4 | 0.23 | <2 | 4 | 246 |
| A2012629 | | <10 | 1 | 0.17 | 10 | 0.70 | 2610 | 1 | 0.02 | 2 | 510 | 6 | 0.91 | <2 | 2 | 300 |
| A2012630 | | <10 | 1 | 0.21 | 10 | 0.02 | 183 | 1 | 0.02 | 1 | 460 | 14 | 0.26 | <2 | <1 | 40 |
| A2012631 | | <10 | 1 | 0.28 | 20 | 0.14 | 935 | 1 | 0.02 | 1 | 940 | 9 | 3.34 | <2 | 1 | 58 |
| A2012632 | | <10 | 2 | 0.08 | 20 | 0.55 | 4910 | 9 | <0.01 | 1 | 220 | 86 | 3.71 | 30 | 1 | 285 |
| A2012633 | | <10 | <1 | 0.16 | 10 | 0.89 | 1315 | <1 | 0.01 | 3 | 910 | 6040 | 1.61 | <2 | 4 | 476 |
| A2012634 | | <10 | 1 | 0.13 | 10 | 0.16 | 7960 | 1 | 0.01 | 1 | 550 | 92 | 2.77 | 4 | 2 | 1290 |
| A2018536 | | 10 | 1 | 0.11 | 20 | 0.47 | 1175 | 1 | 0.10 | <1 | 1550 | 15 | 0.30 | 4 | 9 | 244 |
| A2018537 | | <10 | 8 | 0.01 | <10 | <0.01 | 74 | 3 | <0.01 | 2 | 40 | 7 | 7.44 | 5 | 1 | 30 |
| A2018538 | | <10 | 1 | 0.05 | 10 | 0.38 | 1895 | 1 | 0.01 | 3 | 290 | 4 | 0.09 | 2 | 3 | 556 |
| A2018539 | | <10 | 1 | 0.06 | 20 | 1.18 | 2350 | <1 | <0.01 | 8 | 230 | 749 | 1.46 | 9 | 4 | 317 |
| A2018540 | | <10 | 7 | 0.06 | 10 | 0.13 | 9990 | <1 | <0.01 | <1 | 200 | 3480 | 4.43 | 9480 | 1 | 259 |
| A2018541 | | <10 | 2 | 0.09 | 10 | 0.42 | 14750 | 1 | 0.01 | <1 | 310 | 27 | 1.95 | 25 | 2 | 690 |
| A2018542 | | <10 | <1 | 0.02 | <10 | <0.01 | 80 | 7 | <0.01 | 2 | 80 | 9 | 0.09 | 11 | <1 | 66 |
| A2018543 | | <10 | <1 | 0.23 | 10 | 0.84 | 799 | 1 | 0.03 | 2 | 1340 | 9 | 4.83 | <2 | 5 | 68 |
| A2018201 | | <10 | <1 | 0.08 | <10 | 0.10 | 1080 | 2 | <0.01 | 9 | 80 | 11 | 0.04 | 3 | 3 | 66 |
| A2018202 | | 10 | <1 | 0.08 | 10 | 2.10 | 1095 | 3 | 0.05 | 17 | 1590 | <2 | 0.74 | 2 | 18 | 73 |
| A2018203 | | <10 | <1 | 0.14 | <10 | 0.60 | 197 | 5 | 0.04 | 14 | 1730 | 3 | 4.94 | <2 | 11 | 14 |

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

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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 6-OCT-2016**
**Account: RIDCOL**

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41<br>Th<br>ppm<br>20 | ME-ICP41<br>Ti<br>%<br>0.01 | ME-ICP41<br>Tl<br>ppm<br>10 | ME-ICP41<br>U<br>ppm<br>10 | ME-ICP41<br>V<br>ppm<br>1 | ME-ICP41<br>W<br>ppm<br>10 | ME-ICP41<br>Zn<br>ppm<br>2 | Ag-OG46<br>Ag<br>ppm<br>1 | Cu-OG46<br>Cu<br>%<br>0.001 | Zn-OG46<br>Zn<br>%<br>0.001 | Ag-GRA21<br>Ag<br>ppm<br>5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HANKMB001 | | <20 | <0.01 | <10 | <10 | 43 | <10 | 73 | | | | |
| A2012601 | | <20 | <0.01 | <10 | <10 | 39 | <10 | 14 | | | | |
| A2012608 | | <20 | 0.13 | <10 | <10 | 115 | <10 | 76 | | | | |
| A2012609 | | <20 | <0.01 | <10 | <10 | 47 | <10 | 23 | | | | |
| A2012610 | | <20 | <0.01 | <10 | <10 | 32 | <10 | 11 | | | | |
| A2012611 | | <20 | <0.01 | <10 | <10 | 228 | <10 | 63 | | | | |
| A2012612 | | <20 | <0.01 | <10 | <10 | 206 | <10 | 82 | | | | |
| A2012613 | | <20 | <0.01 | <10 | <10 | 101 | <10 | 42 | | | | |
| A2012614 | | <20 | <0.01 | <10 | <10 | 58 | <10 | 62 | | | | |
| A2012615 | | <20 | <0.01 | <10 | <10 | 26 | <10 | 23 | | | | |
| A2012616 | | <20 | <0.01 | <10 | <10 | 190 | <10 | 72 | | | | |
| A2012617 | | <20 | <0.01 | <10 | <10 | 11 | <10 | 26 | | | | |
| A2012618 | | <20 | <0.01 | <10 | <10 | 2 | <10 | 60 | | | | |
| A2012619 | | <20 | <0.01 | <10 | <10 | 2 | <10 | 36 | | | | |
| A2012620 | | <20 | <0.01 | <10 | <10 | 3 | <10 | 25 | | | | |
| A2012621 | | <20 | <0.01 | <10 | <10 | 1 | <10 | 3080 | | | | |
| A2012622 | | <20 | <0.01 | <10 | <10 | 2 | <10 | 25 | | | | |
| A2012623 | | <20 | <0.01 | <10 | <10 | 4 | <10 | 4660 | 1220 | | | |
| A2012624 | | <20 | <0.01 | <10 | <10 | 8 | <10 | 197 | | | | |
| A2012625 | | <20 | 0.11 | <10 | <10 | 43 | <10 | 29 | | | | |
| A2012626 | | <20 | <0.01 | <10 | <10 | 6 | <10 | 47 | | | | |
| A2012627 | | <20 | <0.01 | <10 | <10 | 16 | <10 | 58 | | | | |
| A2012628 | | <20 | <0.01 | <10 | <10 | 44 | <10 | 51 | | | | |
| A2012629 | | <20 | <0.01 | <10 | <10 | 33 | <10 | 59 | | | | |
| A2012630 | | <20 | <0.01 | <10 | <10 | 5 | <10 | 7 | | | | |
| A2012631 | | <20 | <0.01 | <10 | <10 | 8 | <10 | 68 | | | | |
| A2012632 | | <20 | <0.01 | <10 | <10 | 7 | <10 | 91 | | | | |
| A2012633 | | <20 | <0.01 | <10 | <10 | 43 | <10 | 69 | | | | |
| A2012634 | | <20 | <0.01 | <10 | <10 | 4 | <10 | 260 | | | | |
| A2018536 | | <20 | 0.17 | <10 | <10 | 99 | <10 | 97 | | | | |
| A2018537 | | <20 | <0.01 | <10 | <10 | 17 | <10 | 4 | | | | |
| A2018538 | | <20 | <0.01 | <10 | <10 | 22 | <10 | 17 | | | | |
| A2018539 | | <20 | <0.01 | <10 | <10 | 20 | <10 | 1060 | | | | |
| A2018540 | | <20 | <0.01 | <10 | <10 | 2 | 10 | >10000 | >1500 | 1.595 | 1.135 | 4790 |
| A2018541 | | <20 | <0.01 | <10 | <10 | 3 | <10 | 154 | | | | |
| A2018542 | | <20 | <0.01 | <10 | <10 | 1 | <10 | 14 | | | | |
| A2018543 | | <20 | <0.01 | <10 | <10 | 43 | <10 | 80 | | | | |
| A2018201 | | <20 | <0.01 | <10 | <10 | 35 | <10 | 191 | | | | |
| A2018202 | | <20 | 0.24 | <10 | <10 | 184 | <10 | 73 | | | | |
| A2018203 | | <20 | 0.02 | <10 | <10 | 129 | <10 | 13 | | | | |

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

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To: COLORADO RESOURCES/RIDGELINE EXPLORATION
302-1620 WEST 8TH AVENUE
VANCOUVER BC V6J 1V4


Finalized Date: 6-OCT-2016
Account: RIDCOL

Project: HANK

# CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method | WEI-21 | Au-AA25 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Au | Ag | Al | As | B | Ba | Be | Bi | Ca | Cd | Co | Cr | Cu | Fe |
| | Units | kg | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | % |
| | LOR | 0.02 | 0.01 | 0.2 | 0.01 | 2 | 10 | 10 | 0.5 | 2 | 0.01 | 0.5 | 1 | 1 | 1 | 0.01 |
| A2018204 | | 3.42 | 0.02 | 0.6 | 1.71 | 7 | <10 | 80 | <0.5 | <2 | 2.66 | <0.5 | 39 | 29 | 233 | 5.87 |
| A2018222 | | 1.92 | 0.10 | 2.3 | 0.35 | 86 | <10 | 10 | <0.5 | <2 | 2.00 | 2.6 | 17 | 7 | 603 | 5.04 |
| A2018116A | | 2.04 | 0.51 | 1.3 | 0.08 | 198 | <10 | 50 | <0.5 | <2 | 16.8 | <0.5 | 1 | 1 | 5 | 1.11 |
| A2018116B | | 2.22 | 0.27 | 0.5 | 0.06 | 60 | <10 | 120 | <0.5 | <2 | >25.0 | <0.5 | <1 | <1 | 5 | 0.84 |
| A2012494 | | 1.46 | <0.01 | 0.6 | 0.72 | 838 | <10 | 10 | <0.5 | <2 | 8.6 | 0.6 | 27 | 2 | 38 | 11.20 |
| A2018142 | | 2.38 | 0.02 | 0.4 | 1.56 | 4 | <10 | 110 | <0.5 | <2 | 1.83 | <0.5 | 28 | 6 | 40 | 4.51 |
| A2018081 | | 0.66 | <0.01 | 0.2 | 2.61 | 9 | <10 | 200 | <0.5 | <2 | 2.66 | <0.5 | 17 | 11 | 78 | 5.54 |
| A2018082 | | 0.84 | <0.01 | 0.4 | 2.21 | 22 | <10 | 180 | 0.7 | <2 | 3.99 | <0.5 | 28 | 46 | 146 | 6.22 |
| A2018083 | | 0.56 | 0.01 | 0.3 | 2.29 | 17 | <10 | 170 | 0.6 | <2 | 0.82 | <0.5 | 22 | 18 | 8 | 4.41 |
| A2018084 | | 0.80 | 0.01 | 0.4 | 1.58 | 21 | <10 | 80 | <0.5 | <2 | 0.62 | <0.5 | 21 | 19 | 38 | 5.32 |
| A2018085 | | 1.46 | 0.28 | 0.9 | 1.05 | 15 | <10 | 90 | <0.5 | <2 | 0.98 | <0.5 | 7 | 17 | 96 | 4.22 |
| A2018077 | | 1.26 | <0.01 | <0.2 | 0.05 | <2 | <10 | 80 | <0.5 | <2 | >25.0 | <0.5 | <1 | <1 | 5 | 0.11 |
| HANKCP001 | | 3.00 | 0.72 | 2.2 | 0.04 | 301 | <10 | 50 | <0.5 | <2 | 18.4 | <0.5 | <1 | <1 | 3 | 1.19 |

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

ALS Canada Ltd.
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To: **COLORADO RESOURCES/RIDGELINE EXPLORATION**
**302-1620 WEST 8TH AVENUE**
**VANCOUVER BC V6J 1V4**


**Finalized Date: 6-OCT-2016**
**Account: RIDCOL**

Project: HANK

## CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ga | Hg | K | La | Mg | Mn | Mo | Na | Ni | P | Pb | S | Sb | Sc | Sr |
| | Units | ppm | ppm | % | ppm | % | ppm | ppm | % | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | LOR | 10 | 1 | 0.01 | 10 | 0.01 | 5 | 1 | 0.01 | 1 | 10 | 2 | 0.01 | 2 | 1 | 1 |
| A2018204 | | 10 | 1 | 0.12 | 10 | 2.09 | 637 | 4 | 0.07 | 15 | 1850 | 2 | 2.57 | 3 | 10 | 61 |
| A2018222 | | <10 | 1 | 0.22 | 10 | 0.18 | 673 | 2 | 0.02 | 27 | 1430 | 147 | 5.27 | 2 | 1 | 73 |
| A2018116A | | <10 | 2 | 0.04 | <10 | 0.11 | 6320 | <1 | <0.01 | <1 | 130 | 2 | 1.12 | 19 | 1 | 436 |
| A2018116B | | <10 | 2 | 0.03 | 10 | 0.39 | 11750 | <1 | 0.01 | <1 | 90 | 3 | 0.61 | 2 | <1 | 1025 |
| A2012494 | | <10 | 3 | 0.14 | 10 | 1.03 | 5140 | 11 | 0.01 | 3 | 540 | 18 | >10.0 | 65 | 10 | 570 |
| A2018142 | | 10 | 1 | 0.12 | <10 | 0.41 | 455 | 2 | 0.08 | 3 | 1010 | 5 | 1.48 | <2 | 3 | 43 |
| A2018081 | | 10 | <1 | 0.06 | 10 | 1.99 | 1145 | <1 | 0.04 | 6 | 1840 | 3 | 0.18 | <2 | 14 | 67 |
| A2018082 | | 10 | 1 | 0.13 | 10 | 1.74 | 1600 | 5 | 0.05 | 16 | 1820 | 17 | 1.05 | 2 | 22 | 147 |
| A2018083 | | 10 | 1 | 0.07 | 10 | 2.17 | 949 | 1 | 0.06 | 23 | 2300 | 13 | 0.49 | 3 | 18 | 24 |
| A2018084 | | 10 | 1 | 0.07 | 10 | 1.26 | 608 | 4 | 0.05 | 9 | 1870 | 9 | 1.51 | <2 | 14 | 17 |
| A2018085 | | <10 | 1 | 0.14 | 10 | 0.68 | 696 | 1 | 0.02 | 8 | 870 | 25 | 0.66 | <2 | 5 | 25 |
| A2018077 | | <10 | 1 | 0.01 | <10 | 0.27 | 58 | <1 | 0.01 | <1 | 120 | <2 | 0.09 | <2 | 1 | 378 |
| HANKCP001 | | <10 | 3 | 0.02 | <10 | 0.11 | 6390 | <1 | <0.01 | <1 | 60 | 4 | 1.26 | 41 | <1 | 421 |

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# CERTIFICATE OF ANALYSIS VA16149171

| Sample Description | Method | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41 | Ag-OG46 | Cu-OG46 | Zn-OG46 | Ag-GRA21 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Th | Ti | Tl | U | V | W | Zn | Ag | Cu | Zn | Ag |
| | Units | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | % | ppm |
| | LOR | 20 | 0.01 | 10 | 10 | 1 | 10 | 2 | 1 | 0.001 | 0.001 | 5 |
| A2018204 | | <20 | 0.11 | <10 | <10 | 148 | <10 | 24 | | | | |
| A2018222 | | <20 | <0.01 | <10 | <10 | 14 | <10 | 321 | | | | |
| A2018116A | | <20 | <0.01 | <10 | <10 | 1 | <10 | 22 | | | | |
| A2018116B | | <20 | <0.01 | <10 | <10 | 1 | <10 | 15 | | | | |
| A2012494 | | <20 | <0.01 | 10 | <10 | 45 | <10 | 45 | | | | |
| A2018142 | | <20 | 0.09 | <10 | <10 | 137 | <10 | 49 | | | | |
| A2018081 | | <20 | 0.04 | <10 | <10 | 166 | <10 | 69 | | | | |
| A2018082 | | <20 | 0.21 | <10 | <10 | 207 | <10 | 50 | | | | |
| A2018083 | | <20 | 0.09 | <10 | <10 | 193 | <10 | 46 | | | | |
| A2018084 | | <20 | 0.01 | <10 | <10 | 150 | <10 | 29 | | | | |
| A2018085 | | <20 | 0.01 | <10 | <10 | 94 | <10 | 22 | | | | |
| A2018077 | | <20 | <0.01 | <10 | <10 | 3 | <10 | 7 | | | | |
| HANKCP001 | | <20 | <0.01 | <10 | <10 | 1 | <10 | 13 | | | | |

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Project: HANK

# CERTIFICATE OF ANALYSIS VA16149171

## CERTIFICATE COMMENTS

### LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

| | | | | |
|---|---|---|---|---|
| Applies to Method: | Ag-GRA21 | Ag-OG46 | Au-AA25 | BAG-01 |
| | CRU-31 | CRU-QC | Cu-OG46 | LOG-22 |
| | ME-ICP41 | ME-OG46 | PUL-32 | PUL-QC |
| | SPL-21 | WEI-21 | Zn-OG46 | |