# Technical Report on the Rancheria Project Area

**YEIP**
**2015-096**

NTS 105B 1, 2, 7 & 8
Watson Lake Mining Division
Yukon Territory, Canada
60°40'N Lat., 130°30'W Long.

Funded Under Grant YMEP-15-096
**Yukon Mineral Exploration Program**
(Focused Regional Module)

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# SUMMARY

The Rancheria Project area ("Project") is centered approximately 20 km east of Rancheria, Yukon. The Project is thought to be prospective for syngenetic and replacement style Ag-Pb-Zn +/- Gallium & Germanium deposits hosted in a carbonate and clastic sedimentary sequence of the Cassiar terrane, which has been intruded into the west by the mid-Cretaceous Cassiar batholith. The sediments include the Kechika, Sandpile, McDame and Earn groups. Nearby examples of these deposits include the Silvertip or Midway deposit located approximately 20 km south of the Alaska Highway in British Columbia.

A detailed comparison of claims located on the British Columbia side of the border with a similar geological environment on the Yukon side indicates that the Yukon side is significantly less explored and claimed.

The 2015 field program took place over a span of six and a half days between August 18 and August 30, 2015. This field program was completed by two senior geologists; Adam Travis and Michael Cathro and one senior prospector; Donald Coolidge. A total of 127 soil samples and 8 rock samples were collected and set to Bureau Veritas Commodities Canada Ltd (Previously known as Acme Laboratories) in Vancouver British Columbia for Fire Assay Au and ICP.

During the program it was found that new claims had been staked over the Meister River and Sterling minfile occurrences. Although this hindered the proposed work adaptations were made and focused efforts to the east of the Mesiter River occurrence, in the Hard Tack-Kubiak area and further south in the Veronica area. This work lead to the staking of 14 claims east of the Veronica over the Hairsine minfile (mis-plotted) and the discovery of a significant lead-zinc-silver in soil anomaly approximately 1 km southeast of the plotted locations of the Veronica occurrence.

As a result of this significant new discovery at Veronica and recognition of further mineralization on the current MR claims (MR1-14) additional staking was completed from March 14 - 17, 2016. An additional 12 claims were staked in the MR area (MR15-26) and an additional 42 claims staked in the Veronica area (VER1-42).

The applicable expenses were funded under grant number YMEP 15-096.

# INTRODUCTION

This report documents the 2015 exploration work completed on the Rancheria Project area ("Project") between August 18 - 30, 2015 and a later staking campaign from March 14 - 17, 2016. The exploration program consisted of collection of 127 soil samples and 8 rock samples. The program was completed by senior geologist's Adam Travis and Michael Cathro and senior prospector Donald Coolidge, with the addition of another senior prospector for one day during the staking procedures.

The total cost of the program was $36,402.22. A full cost statement is included in Appendix 1. The applicable expenses were funded under grant number YMEP 15-096.

# PROJECT LOCATION AND LAND STATUS

The Rancheria target area is centered 20 km east of the village of Rancheria in the Watson Lake Mining Division (Figures 1a and 1b). It is located on NTS map sheets 105B 1, 105B2, and 105B7 and 105B8. The target area is centered at approximately 60°40'N Lat., 130°30'W Long.

In terms of infrastructure, the project area lies to the north and south of the Alaska Highway 10-25 km east of Rancheria, and approximately 90 km west of Watson Lake. Various secondary roads and trails created primarily during the 1980's provide 4 x4 and ATV access. Overall, the proximity to all-weather roads makes the area an attractive site for possible future mine development.

**Claim Status, Ownership and Land Use**

Only a handful of claims are present in the area with Strategic's Blue Heaven Property to the northwest forming the northern extent and the BC border forming the southern extent. Several large blocks in the area once held by Silver Predator and Almaden Minerals have now lapsed.

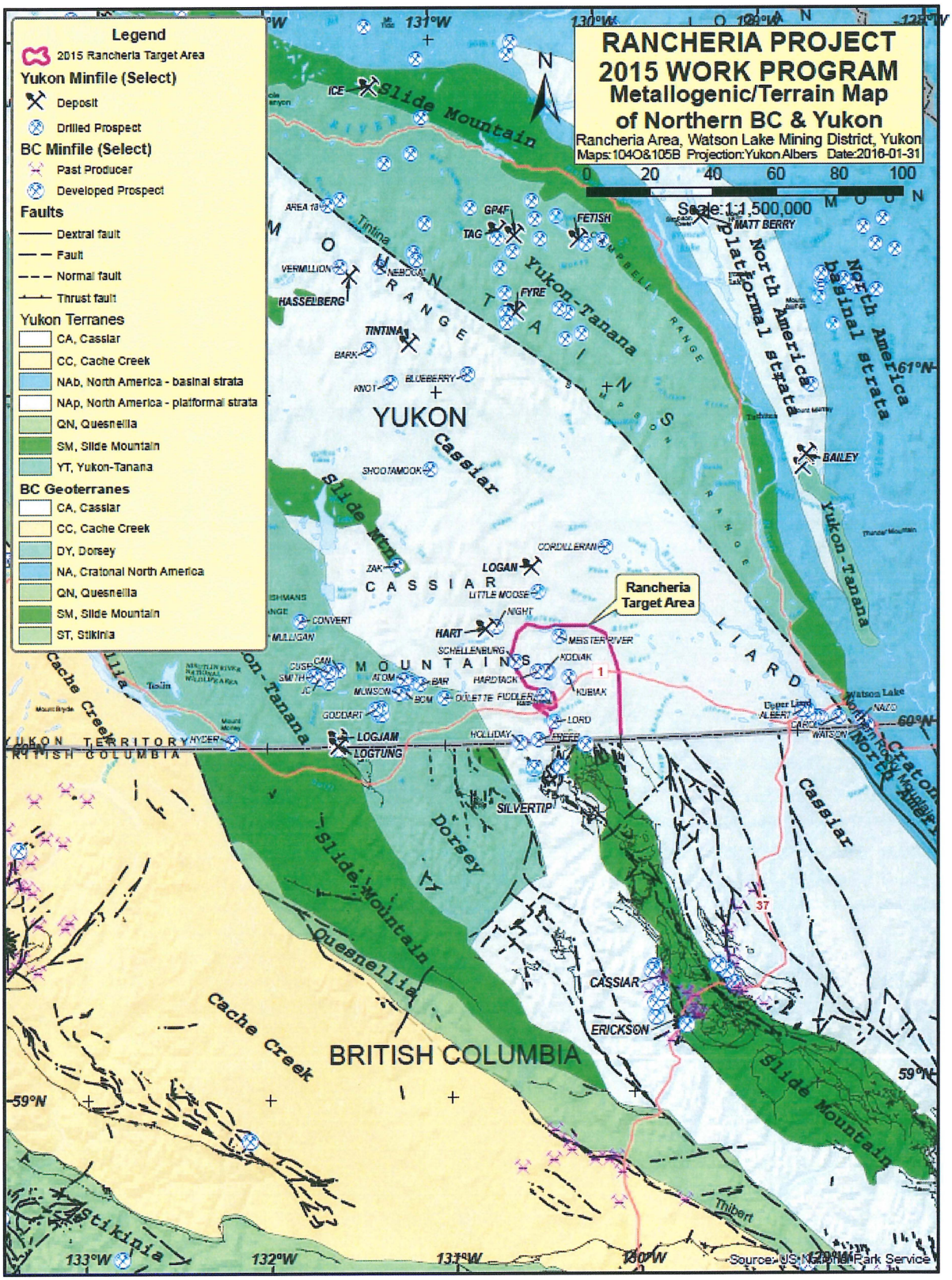
During the program it was found that new claims had been staked over the Meister River and Sterling minfile occurrences by Archer Cathro and Carl Schultz respectively.

Staking consisted of 26 mineral tenures (grant numbers), which are 100% owned by senior geologist Adam Travis, over the Harsine mineral occurrence east of Meister River and a total of 42 claims staked in the area of the Veronica occurrence. Claim information is as set out in Table 1 below.

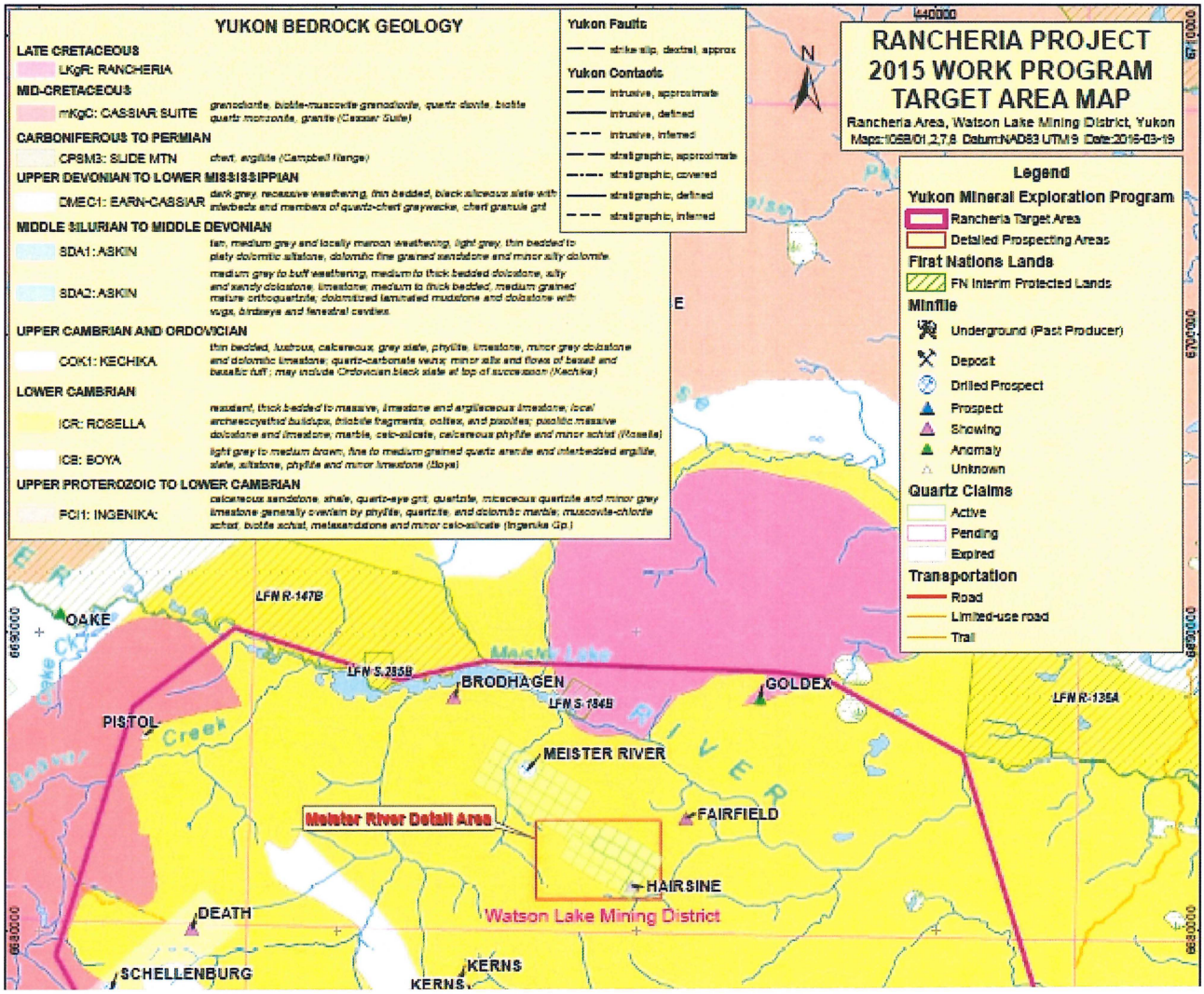
The Project lies within the traditional territory of the Liard First Nation. Several Interim protected areas are present at the margins of the proposed area; however, the proposed work program will avoid those.

No existing or proposed parks are present in the main area of interest.

## Figure 1a


RANCHERIA PROJECT
2015 WORK PROGRAM
Metallogenic/Terrain Map
of Northern BC & Yukon
Rancheria Area, Watson Lake Mining District, Yukon
Maps: 104O&105B Projection: Yukon Albers Date: 2016-01-31
Scale: 1:1,500,000
Legend
2015 Rancheria Target Area
Yukon Minfile (Select)
Deposit
Drilled Prospect
BC Minfile (Select)
Past Producer
Developed Prospect
Faults
Dextral fault
Fault
Normal fault
Thrust fault
Yukon Terranes
CA, Cassiar
CC, Cache Creek
NAb, North America - basinal strata
NAp, North America - platformal strata
QN, Quesnellia
SM, Slide Mountain
YT, Yukon-Tanana
BC Geoterranes
CA, Cassiar
CC, Cache Creek
DY, Dorsey
NA, Cratonal North America
QN, Quesnellia
SM, Slide Mountain
ST, Stikinia
Rancheria Target Area
YUKON
BRITISH COLUMBIA
YUKON TERRITORY
Cassiar
Slide Mountain
Cache Creek
Quesnellia
Dorsey
Stikinia
Yukon-Tanana
North America basinal strata
North America platformal strata
Source: US National Park Service

## Figure 1b


YUKON BEDROCK GEOLOGY
LATE CRETACEOUS
LKgR: RANCHERIA
MID-CRETACEOUS
mKgC: CASSIAR SUITE
granodiorite, biotite-muscovite granodiorite, quartz diorite, biotite quartz monzonite, granite (Cassiar Suite)
CARBONIFEROUS TO PERMIAN
CPSM3: SLIDE MTN
chert, argillite (Campbell Range)
UPPER DEVONIAN TO LOWER MISSISSIPPIAN
DMEC1: EARN-CASSIAR
dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit
MIDDLE SILURIAN TO MIDDLE DEVONIAN
SDA1: ASKIN
tan, medium grey and locally maroon weathering, light grey, thin bedded to platy dolomitic siltstone, dolomitic fine grained sandstone and minor silty dolomite
SDA2: ASKIN
medium grey to buff weathering, medium to thick bedded dolostone, silty and sandy dolostone, limestone; medium to thick bedded, medium grained mature orthoquartzite; dolomitized laminated mudstone and dolostone with vugs, birdseye and fenestral cavities
UPPER CAMBRIAN AND ORDOVICIAN
COK1: KECHIKA
thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolostone and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt and basaltic tuff; may include Ordovician black slate at top of succession (Kechika)
LOWER CAMBRIAN
ICR: ROSELLA
resistant, thick bedded to massive, limestone and argillaceous limestone; local archaeocyathid buildups; trilobite fragments, oolites, and pisolites; pisolitic massive dolostone and limestone, marble, calc-silicate, calcareous phyllite and minor schist (Rosella)
ICB: BOYA
light grey to medium brown, fine to medium grained quartz arenite and interbedded argillite, slate, siltstone, phyllite and minor limestone (Boya)
UPPER PROTEROZOIC TO LOWER CAMBRIAN
PCI1: INGENIKA
calcareous sandstone, shale, quartz-eye grit, quartzite, micaceous quartzite and minor grey limestone generally overlain by phyllite, quartzite, and dolomitic marble; muscovite-chlorite schist, biotite schist, metasandstone and minor calc-silicate (Ingenika Gp.)
Yukon Faults
strike slip, dextral, approx
Yukon Contacts
intrusive, approximate
intrusive, defined
intrusive, inferred
stratigraphic, approximate
stratigraphic, covered
stratigraphic, defined
stratigraphic, inferred
RANCHERIA PROJECT
2015 WORK PROGRAM
TARGET AREA MAP
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/01,2,7,8 Datum:NAD83 UTM 9 Date:2016-03-19
Legend
Yukon Mineral Exploration Program
Rancheria Target Area
Detailed Prospecting Areas
First Nations Lands
FN Interim Protected Lands
Minfile
Underground (Past Producer)
Deposit
Drilled Prospect
Prospect
Showing
Anomaly
Unknown
Quartz Claims
Active
Pending
Expired
Transportation
Road
Limited-use road
Trail
N
LFN R-147B
OAKE
LFN S-255B
BRODHAGEN
LFN S-184B
GOLDEX
LFN R-135A
PISTOL
Beaver Creek
MEISTER RIVER
Meister River Detail Area
FAIRFIELD
HAIRSINE
DEATH
Watson Lake Mining District
SCHELLENBURG
KERNS
KERNS

## Table 1: Mineral Tenures and Ownership

| District | Grant Number | Claim Name | Claim Number | Claim Owner | Operation Recording Date | Staking Date | Claim Expiry Date | NTS Map Number |
|---|---|---|---|---|---|---|---|---|
| Watson Lake | YF40495 | MR | 1 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40496 | MR | 2 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40497 | MR | 3 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40498 | MR | 4 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40499 | MR | 5 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40500 | MR | 6 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40501 | MR | 7 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40502 | MR | 8 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40503 | MR | 9 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40504 | MR | 10 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40505 | MR | 11 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40506 | MR | 12 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40507 | MR | 13 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF40508 | MR | 14 | Adam Travis | 9/21/2015 | 8/29/2015 | 9/21/2016 | 105B08 |
| Watson Lake | YF47605 | MR | 15 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47606 | MR | 16 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47607 | MR | 17 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47608 | MR | 18 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47609 | MR | 19 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47610 | MR | 20 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Watson Lake | YF47611 | MR | 21 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47612 | MR | 22 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47613 | MR | 23 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47614 | MR | 24 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47615 | MR | 25 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47616 | MR | 26 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47562 | VER | 1 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47563 | VER | 2 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47564 | VER | 3 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47565 | VER | 4 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47566 | VER | 5 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47567 | VER | 6 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47568 | VER | 7 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47569 | VER | 8 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47570 | VER | 9 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47571 | VER | 10 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47572 | VER | 11 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47573 | VER | 12 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47574 | VER | 13 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47575 | VER | 14 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47576 | VER | 15 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47577 | VER | 16 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47578 | VER | 17 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47579 | VER | 18 | Adam 21Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Watson Lake | YF47580 | VER | 19 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47581 | VER | 20 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47582 | VER | 21 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47583 | VER | 22 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47584 | VER | 23 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47585 | VER | 24 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47586 | VER | 25 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47587 | VER | 26 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47588 | VER | 27 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47589 | VER | 28 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47590 | VER | 29 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47591 | VER | 30 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47592 | VER | 31 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47593 | VER | 32 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47594 | VER | 33 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47595 | VER | 34 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47596 | VER | 35 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47597 | VER | 36 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47598 | VER | 37 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47599 | VER | 38 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47600 | VER | 39 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47601 | VER | 40 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47602 | VER | 41 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |
| Watson Lake | YF47603 | VER | 42 | Adam Travis | 3/16/2016 | 3/15/2016 | 3/16/2017 | 105B08 |

# ACCESS

The central parts of the project area are readily accessible along the Alaska Highway. The areas south of the Alaska Highway are most easily accessed via the road south to the Silvertip or Midway deposit. Areas north of the Alaska Highway have local roads that were established into mineral properties during the 1980's. In addition, the area can be reached by helicopter from Watson Lake (90 km) which has a permanent base or alternatively from seasonal bases that are sometimes located much closer.

# TARGET AND RATIONALE

The target in the Rancheria area is for syngenetic and replacement style Ag-Pb-Zn +/- Gallium & Germanium deposits hosted in a carbonate and clastic sedimentary sequence of the Cassiar terrane, which has been intruded into the west by the mid-Cretaceous Cassiar batholith. The sediments include the Kechika, Sandpile, McDame and Earn groups. Nearby examples of these deposits include the Silvertip or Midway deposit located approximately 20 km south of the Alaska Highway in British Columbia.

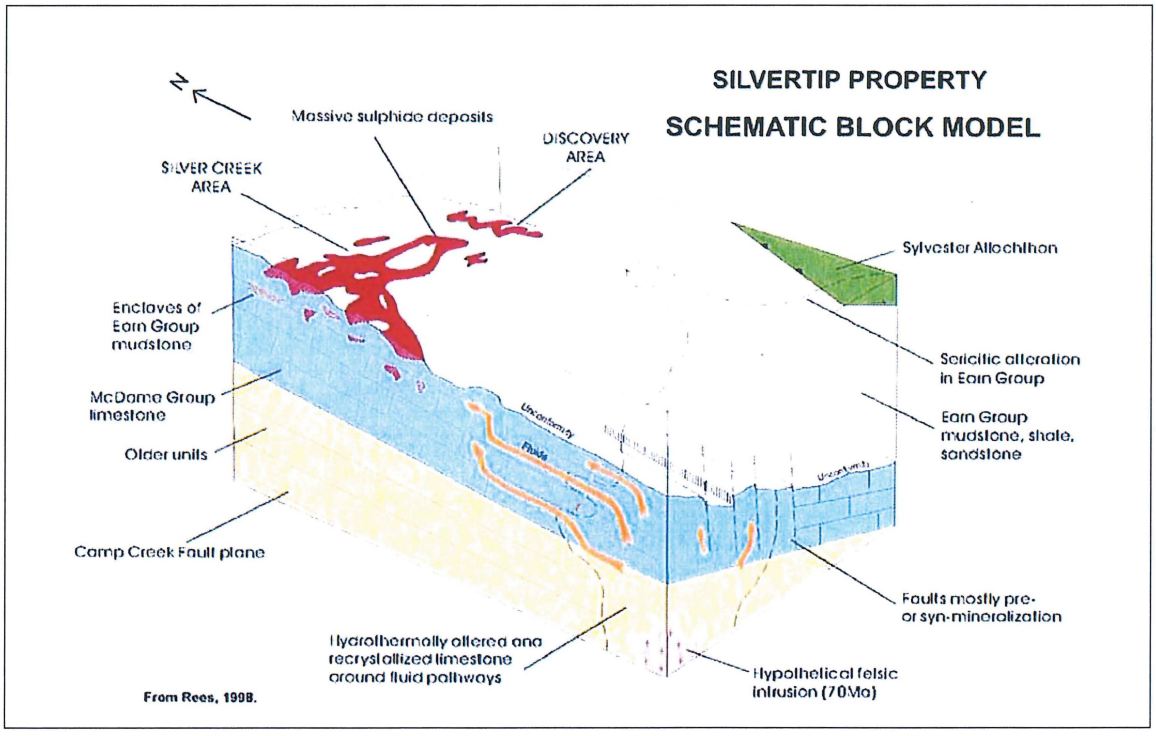



**Figure 2: Silvertip Project Schematic Block Model**

These are economically attractive commodities and deposit types in an area of Yukon that is relatively well serviced by infrastructure, and close to ports in Skagway and Haines, Alaska.

# REGIONAL AND PROJECT GEOLOGY

The Rancheria area is situated in the northern Omineca Belt of the Canadian Coordillera. The Cassiar Terrane is the most important element in the region and is comprised of Upper Proterzoic through Middle Devonian carbonate and clastic sedimentary rocks formed on a marine platform on the ancient continental margin of western North America (Cassiar Platform) and overlying Devono-Missippian rift related clastics (Earn Group).

Structurally overlying the Cassiar Terrane is a tectonic assemblage of marginal basin and island arc sediments and igneous rocks of the Upper Paleozoic Sylvester allochthon. The region was moderately deformed by folding and faulting and thrust faulting in the Jurassic and later by extensional and dextral faulting in the Late Cretaceous to early Tertiary. The Cassiar Batholith, a large granite to granodiorite intrusion of mid- Cretaceous age, lies west of the area. Small intrusions and related hydrothermal alteration of possibly Late Cretaceous age are minor but important features in the region.

The main mineral deposits are syngenetic barite =/- lead, zinc prospects in Paleozoic sediments, and skarn and replacement deposits related to Cretaceous intrusions. An account of mineralization in the Rancheria district including the Silvertip area is given by Abbott (1983).

**Regional Mineral Deposits (after BC Minfile)**

The Silvertip deposit is located near the Tootsee River in the Cassiar Mountains just south of the Yukon-British Columbia border. The deposits occur in a carbonate and clastic sedimentary sequence of the Cassiar terrane, which has been intruded into the west by the mid-Cretaceous Cassiar batholith. The sediments include the Kechika, Sandpile, McDame and Earn groups. The deposits are situated on the west limb of a broad, open, northwest trending synclinorium, the core of which is occupied by volcanics, sediments and ultramafic rocks of the Devonian-Triassic Sylvester Allochthon. Massive sulphide zones in the Midway deposits occur in limestones of the upper part (Unit MLS) of the mid-Devonian McDame Group. This unit is unconformably overlain by clastic sediments of the Upper Devonian-Mississippian Earn Group, which consists of two upward- coarsening sequences of turbiditic flows. Several exhalative horizons, consisting of fine- grained massive to laminated silica and/or barite, with pyrite, sphalerite and minor galena occur in the Earn Group sediments. Two of these, the Upper and Discovery zones, occur near the base of the second cycle, and contain lead-zinc-silver mineralization. Sulphides within the exhalite zones are restricted in extent although exhalites are wide-spread and may be stratigraphically correlatable.

The McDame/Earn groups contact is a pronounced erosional surface, with carbonates below the contact strongly affected by Late Devonian karstification. The unconformity cuts across 165 metres of McDame limestone stratigraphy near the deposit. Uplift and erosion and karst development in Late Devonian time was accompanied by high- angle block faulting, which made the carbonates a better aquifer for meteoric waters. Breccias at Midway include carbonate mosaic breccias, and solution-collapse breccias which include Earn Group clasts. Vein mineralization occurs throughout the McDame and Earn groups. Veins vary from hairline fractures to 20 centimetre widths, and consist of quartz, calcite, pyrite, galena and sphalerite.

Mafic dykes of unknown age occur in the Midway area, and are commonly sericitized in the vicinity of the deposits. Potassium- argon dating of sericitized Earn Group sediments and quartz feldspar porphyry dykes about 2 km southeast of the deposit give ages of about 66 million years. The source of

mineralizing fluids has not been identified, although the high silver content of the deposits and tin mineralization indicate a probable magmatic origin. Earn Group mudstones above the unconformity locally confined mineralizing fluids to the underlying limestones, with sulphide deposition occurring as open-space filling and replacement of carbonates.

The Silver Creek zone contains two high-grade core zones, Silver Creek North and Silver Creek South. Massive sulphide mineralization consists of pyrite (and associated marcasite and pyrrhotite), sphalerite and galena, with lesser freibergite, pyrargyrite, argentite, boulangerite, stannite, arsenopyrite, cassiterite, chalcopyrite and quartz- carbonate gangue. Lead sulphantimonides have also been identified. Sulphide textures indicate several phases of brecciation, replacement and open-space drusy growth. The southern part of the zone is characterized by freibergite and pyrargyrite and very fine-grained colloform pyrite, while the northern part is marked by abundant lead sulphantimonides and by the absence of freibergite, pyrargyrite, pyrrhotite and colliform pyrite. Indicated ore reserves for the Silver Creek zone, in 1985, were 2,847,920 tonnes grading 446.4 g/t silver, 8.45 % lead and 10.21 % zinc (Assessment Report 13259).

The Discovery deposit occurs about 300 metres east of the Silver Creek North core zone. Massive and brecciated sulphides occur in several zones in the McDame limestones. Mineralization consists of pyritic, pyrrhotitic and base-metal massive sulphide (greater than 50 % sphalerite and galena) zones. These zones vary in thickness from 0.2 to 2.3 metres. Sulphides also occur as matrix to both sulphide and carbonate clast breccias. "Trash" breccias commonly occur toward the base of mineralized intersections. Metal distribution relations are not well known for the Discovery deposit. The Discovery zone, in 1985, was thought to contain 3,813,307 tonnes of indicated ore grading 371.7 g/t silver, 13.34 % zinc and 5.4 % lead (Assessment Report 13259).

It is now known that the Silver Creek and Discovery zones are actually the same with a lower grade mineralized zone in between.

Mineable reserves estimated by previous operators in the Silver Creek (North and South) zone were 1,377,000 tonnes grading 317 g/t silver, 5.8 % lead and 8.3 % zinc (Imperial Metals Corporation Annual Report 1996, page 7).

Imperial Metals Corp. reported that a recent 8600 metre drilling program has outlined 2 new zones of high grade, massive sulphide mineralization. High grade, near-surface mineralization was intersected immediately north of the Silver Creek zone in an area now called the Silver Creek Extension zone. The second new zone, Discovery North, is 150 metres north of the Discovery zone (T. Schroeter, personal communication, 1997).

The 1997 drilling program led to a resource estimate of 2.57 million tonnes grading 8.8 % zinc, 6.4 % lead, 325 g/t silver and 0.63 g/t gold. This includes measured and indicated of 1,120,000 tonnes grading 378 g/t silver, 7.7 % lead, 9.5 % zinc and 0.85 gram per tonne gold and inferred of 1,450,000 grading 284 g/t silver, 5.4 % lead, 8.3 % zinc and 0.46 g/t gold (Northern Miner, February 23, 1998 and GCNL No.10, 1998).

Silvertip Mining Corporation, a subsidiary of Imperial, submitted an Environmental Assessment Application in 1998. Peruvian Gold Ltd. is acquiring by option a 60 % interest in this Project. Drilling (2000 metres) is planned in 1999 to test geophysical anomalies (CSAMT) outlined in 1998. Hole 3 intersected 318 g/t silver, 8.65 % zinc and 5.53 % lead over 31.4 metres (Northern Miner, October

18, 1999). This is the thickest intercept encountered on the Project to date and is reported to represent a different style of mineralization from that previously encountered on the Project.

Dewatering of the underground workings was initiated in October 1999 and completed before the end of November. All rehabilitation was completed before year end with the drilling equipment on site and ready to be mobilized in the first week of January 2000. A total of 3210 metres of diamond drilling was completed in early February 2000.

Silver Standard Resources acquired the Project in 2002.

Silvercorp Metals Inc. acquired the Project in February 2010 and released an updated resource estimate as follows:

**Table 2: Lower Zone Mineral Resources for Silvertip** (325 g/t Ag Eq cut-off grade)

| Categories | Tonnes | Ag (g/t) | Pb (%) | Zn (%) | Au (g/t) | Metal Contained in Resources | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ag (oz) | Pb (t) | Zn (t) | Au (oz) |
| Indicated | 2,455,000 | 315 | 5.88 | 6.26 | 0.413 | 24,860,000 | 144,354 | 153,683 | 32,598 |
| Inferred | 1,649,000 | 281 | 4.55 | 5.64 | 0.093 | 14,900,000 | 75,030 | 93,004 | 4,931 |

Table 2: Upper Zone Mineral Resource Estimate
(25 $/t cut-off grade)

| Categories | Tonnes | Ag (g/t) | Pb (%) | Zn (%) | Metal Contained in Resources | | |
|---|---|---|---|---|---|---|---|
| | | | | | Ag (oz) | Pb (t) | Zn (t) |
| Inferred | 3,638,000 | 39 | 0.65 | 2.36 | 4,560,000 | 23,647 | 85,857 |

Notes to Resource Statement:

1. The AgEq ("silver-equivalent") formula is as follows:
   AgEq (g/t) = (Ag g/t * Ag recovery) + ((Au g/t * Au price per g * Au recovery) / Ag price per g) + ((Pb% * Pb price * Pb recovery * 22.0462) / Ag price per g) + ((Zn% * Zn price * Zn recovery * 22.0462) / Ag price per g). Note that copper is not a contributor and gold only contributes when there is a gold recovery value.
2. In calculating AgEq grades, metal prices used are Au: US$1,250/troy ounce; Ag: US$19.00/troy ounce; Pb and Zn: US$1.00/pound.
3. Metal recoveries are based on 2011 metallurgical testwork conducted by SGS Laboratories. Results chosen for the Silvertip process were recovery of 84.9% of silver, 92.4% of lead and 81.7% of zinc. Silvercorp includes recovery of 50% for gold as a conservative estimate.
4. Upper Zone resources are being reported above a $25.00 value cut-off. This cut-off reflects the current mining costs assuming an open pit mining scenario. These costs are considered to be reasonable when compared to similar operations in the area. Value was calculated, in the models, using the formula: $Value = AgEq x $0.81
5. Rounding may result in minor discrepancies in totals.

# REGIONAL AND PROJECT GEOCHEMISTRY

The area east of Rancheria contains numerous high Ag, Pb and Zinc in regional geochemical stream sediments.

# HISTORICAL WORK

A considerable amount of Project work occurred in the general regional primarily in the 1980's but most of the work was directed towards smaller projects and claims and the applicant could find very little sampling data with regards to gallium, iridium or germanium or more recent work that involved some of the updated interpretations from Silvertip.

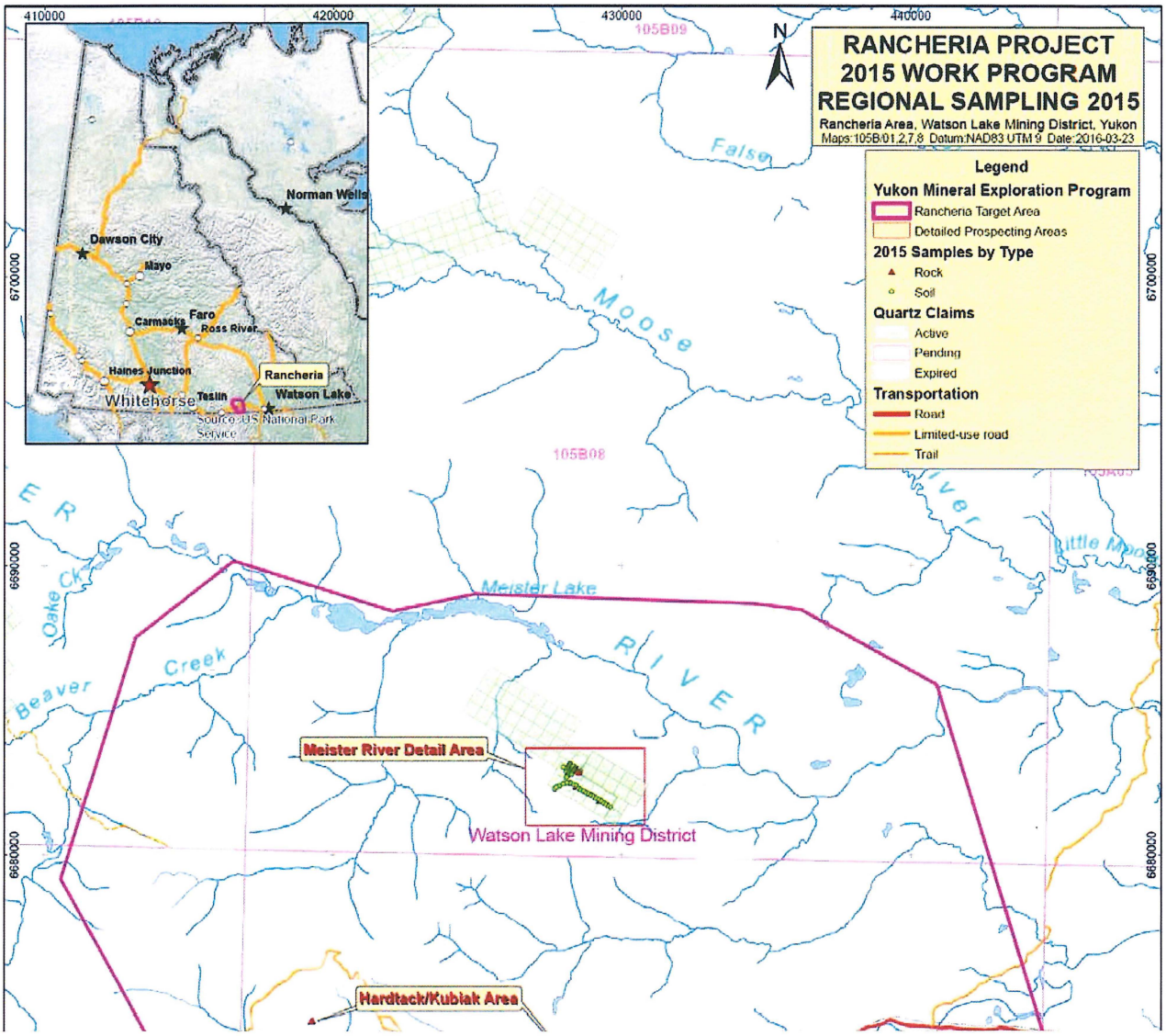
The current lack of claims (especially in comparison to B.C) provides an excellent opportunity to review the belt in a more regional and updated approach.

# 2015 EXPLORATION PROGRAM

The 2015 field program took place over a span of six and a half days between August 18 and August 30, 2015 and due to the exciting new exploration results further claim staking was undertaken from March 14-17, 2016. This field program was completed by two senior geologists; Adam Travis and Michael Cathro and one senior prospector; Donald Coolidge and a claim staking assistant. See Figure 3 for a map of the regional sampling completed.

A total of 127 soil samples and 8 rock samples (see Appendix 2 for sample location and descriptions) were collected throughout the Project and sent to Bureau Veritas Commodities Canada Ltd. in Vancouver, B.C. for ICP and Fire Assay analysis. Lab assay certificates can be found in Appendix 3.

## Figure 3


RANCHERIA PROJECT
2015 WORK PROGRAM
REGIONAL SAMPLING 2015
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/01,2,7,8 Datum:NAD83 UTM 9 Date:2016-03-23
Legend
Yukon Mineral Exploration Program
Rancheria Target Area
Detailed Prospecting Areas
2015 Samples by Type
Rock
Soil
Quartz Claims
Active
Pending
Expired
Transportation
Road
Limited-use road
Trail
N
410000
420000
430000
440000
6700000
6690000
6680000
105B09
105B08
Moose
Meister Lake
RIVER
Beaver
Creek
Meister River Detail Area
Watson Lake Mining District
Hardtack/Kubiak Area
Norman Wells
Dawson City
Mayo
Carmacks
Faro
Ross River
Haines Junction
Whitehorse
Teslin
Rancheria
Watson Lake
Source: US National Park Service

# SAMPLING METHOD AND APPROACH

Soil samples collected were placed into conventional kraft soil bags, and rock samples were placed into poly bags and sealed immediately to avoid any cross contamination. Each sample was labelled with the corresponding area and sample number. Samples were stored in a locked vehicle until they were stored in a locked storage unit ready for transportation to the assay lab.

Sample descriptions, geological observations and other field data was collected in field notebooks, field maps and on hand-held GPS units. Data was entered into an excel table and the photos that were taken were saved on one main computer.

# EXPLORATION RESULTS & RECOMMENDATIONS

Exploration was focused on three main areas; Veronica, Meister River and Hardtack-Kubiak.

**Veronica Area**

A total of 3 man days collecting 74 soil samples was completed in the Veronica area. This work comprised 3 subparallel soil lines that were run down along a ridge crest in an area suspected to be the anomalous area referenced in minfile yet poorly understood.

In the immediate Veronica area work by Beaver Resources included coarse spaced soil geochemistry along claim lines in 1983 and line cutting in 1985-1986. No further work was filed however in minfile it was noted that "two mineralized exposures found in 1985 returned assays ranging from 41.1 to 425.1 g/t Ag and 1.6 to 195 % Pb, and that a weak lead and zinc geochem anomaly was outlined over an area of 150 x 1,500m". These results though were not reported in later assessment reports.

The 2015 sampling work though has highlighted the probable location of this anomaly as highlighted by the significant lead-zinc-silver values over at least 500 m of all 3 soil lines. It is unknown at this time which way these anomalous results may trend but with relatively gentle dipping geology it is thought that the zone should trend along the slope. See Figure 4a through d.

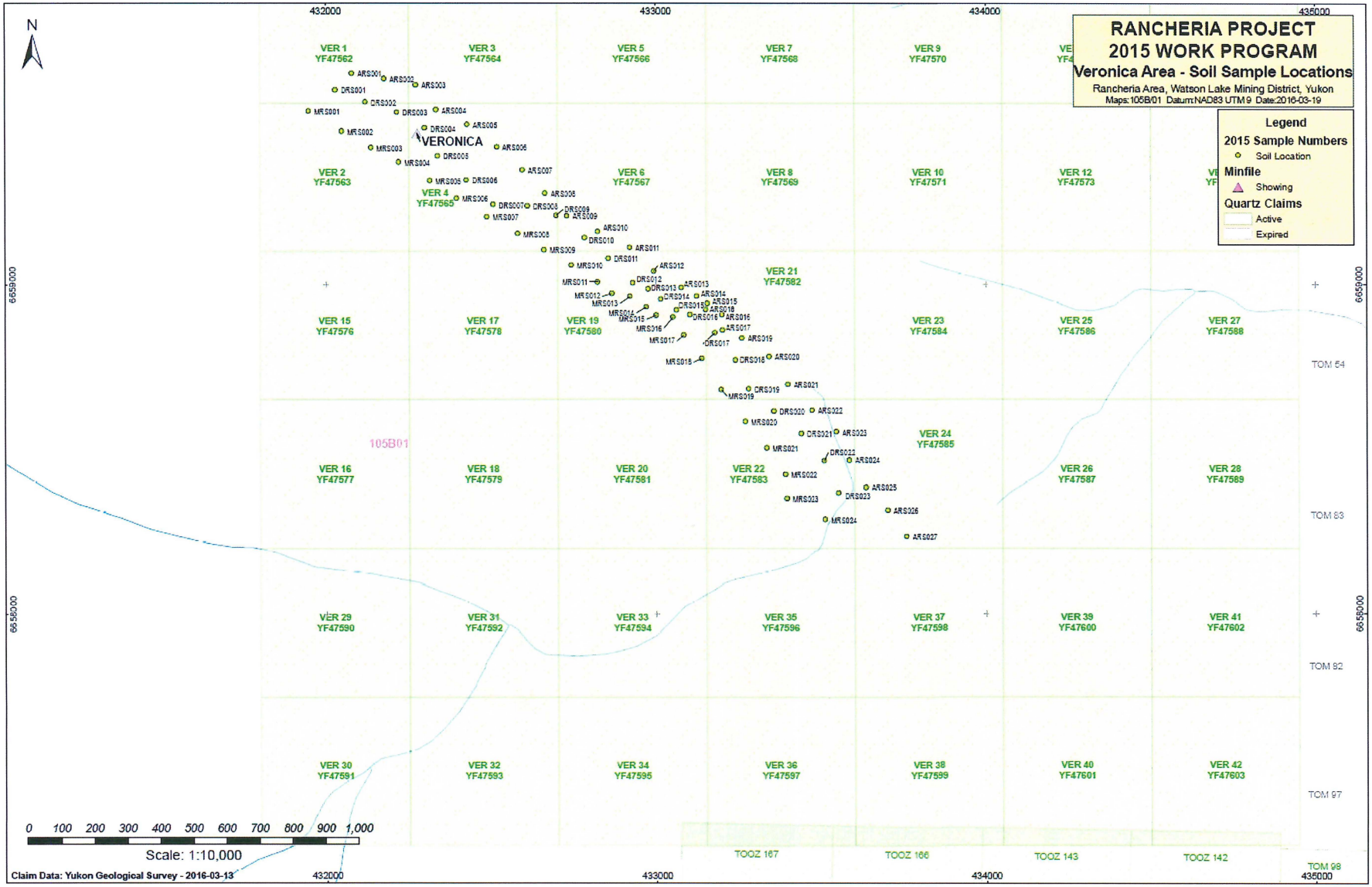
Clearly more soil sampling and prospecting in the area is recommended to hopefully expand the soil anomaly and find the location and source of the previously reported yet poorly located samples.

As a result of these significant exploration results claim staking was undertaken between March 14-17, 2016 with the completion of 42 claims staked over the area.

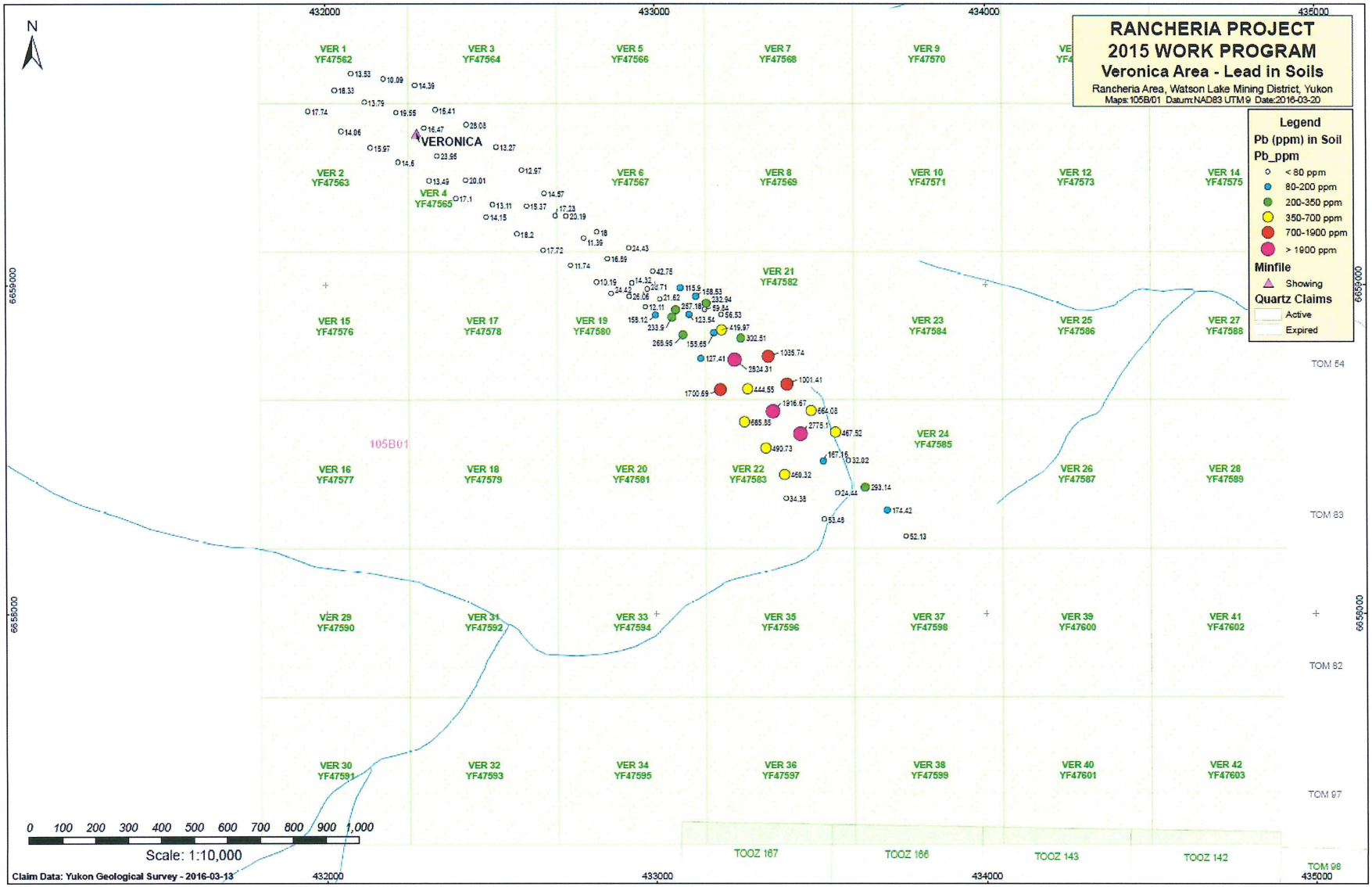
**Veronica Area – Ridgetop View Northward**


**Veronica Area- Typical Soil Profile in Anomalous Area**

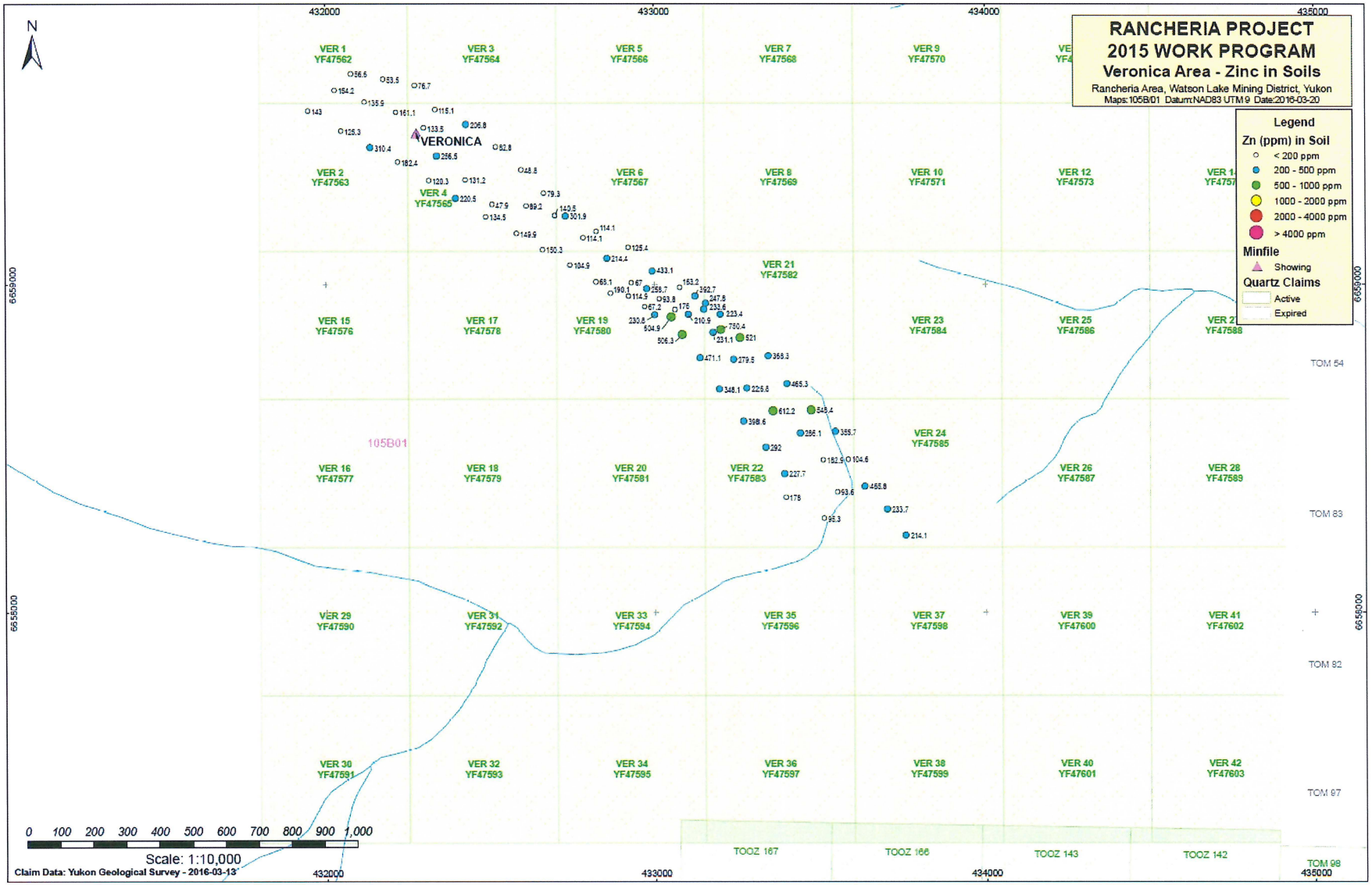
## Figure 4a


RANCHERIA PROJECT
2015 WORK PROGRAM
Veronica Area - Soil Sample Locations
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/01 Datum:NAD83 UTM 9 Date:2016-03-19
Legend
2015 Sample Numbers
Soil Location
Minfile
Showing
Quartz Claims
Active
Expired
N
VERONICA
105B01
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13
432000
433000
434000
435000
6659000
6658000
TOM 54
TOM 83
TOM 82
TOM 97
TOM 98
TOOZ 167
TOOZ 166
TOOZ 143
TOOZ 142

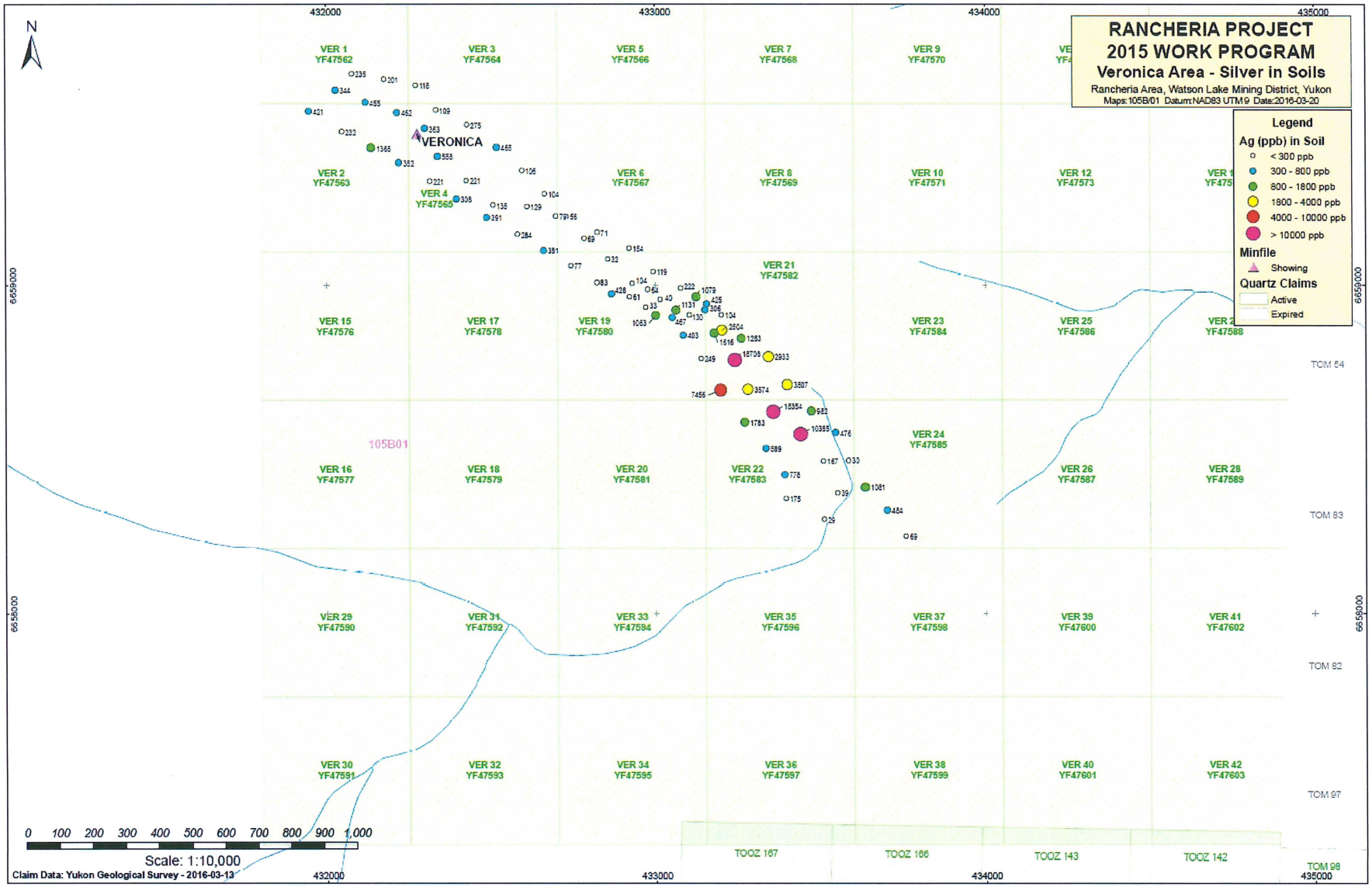
## Figure 4b


RANCHERIA PROJECT
2015 WORK PROGRAM
Veronica Area - Lead in Soils
Rancheria Area, Watson Lake Mining District, Yukon
Maps: 105B/01 Datum: NAD83 UTM 9 Date: 2016-03-20
Legend
Pb (ppm) in Soil
Pb_ppm
< 80 ppm
80-200 ppm
200-350 ppm
350-700 ppm
700-1900 ppm
> 1900 ppm
Minfile
Showing
Quartz Claims
Active
Expired
VERONICA
105B01
N
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13
432000
433000
434000
435000
6559000
6558000
6557000
TOM 64
TOM 83
TOM 82
TOM 97
TOM 98
TOOZ 167
TOOZ 166
TOOZ 143
TOOZ 142

## Figure 4c


RANCHERIA PROJECT
2015 WORK PROGRAM
Veronica Area - Zinc in Soils
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/01 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
Zn (ppm) in Soil
< 200 ppm
200 - 500 ppm
500 - 1000 ppm
1000 - 2000 ppm
2000 - 4000 ppm
> 4000 ppm
Minfile
Showing
Quartz Claims
Active
Expired
VERONICA
105B01
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13
432000
433000
434000
435000
6659000
6658000
TOM 54
TOM 83
TOM 92
TOM 97
TOM 98
TOOZ 167
TOOZ 166
TOOZ 143
TOOZ 142

## Figure 4d


RANCHERIA PROJECT
2015 WORK PROGRAM
Veronica Area - Silver in Soils
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/01 Datum:NAD83 UTM9 Date:2016-03-20
Legend
Ag (ppb) in Soil
< 300 ppb
300 - 800 ppb
800 - 1800 ppb
1800 - 4000 ppb
4000 - 10000 ppb
> 10000 ppb
Minfile
Showing
Quartz Claims
Active
Expired
VERONICA
105B01
N
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13
432000
433000
434000
435000
6559000
6558000
TOM 54
TOM 83
TOM 82
TOM 97
TOM 98
TOOZ 167
TOOZ 166
TOOZ 143
TOOZ 142

**Meister River Area- Hairsine**

Six man days were spent in the area to the east of the Meister River occurrence and over the area of the Hairsine occurrence which is mis-plotted and occurs in the central portion of the claims that were staked.

Research of the area indicated that the Hairsine area is the East Zone at Meister River. According to the Yukon minfile the area is underlain by Lower Cambrian sequence of quartzite, intercalated graphitic and calcareous phyllte and limestone. Mineralization consists of four zones of smithonite and hydrozincite bearing oxide float and gossanous quartz-mica phyllite or iron and manganese rich oxide float.

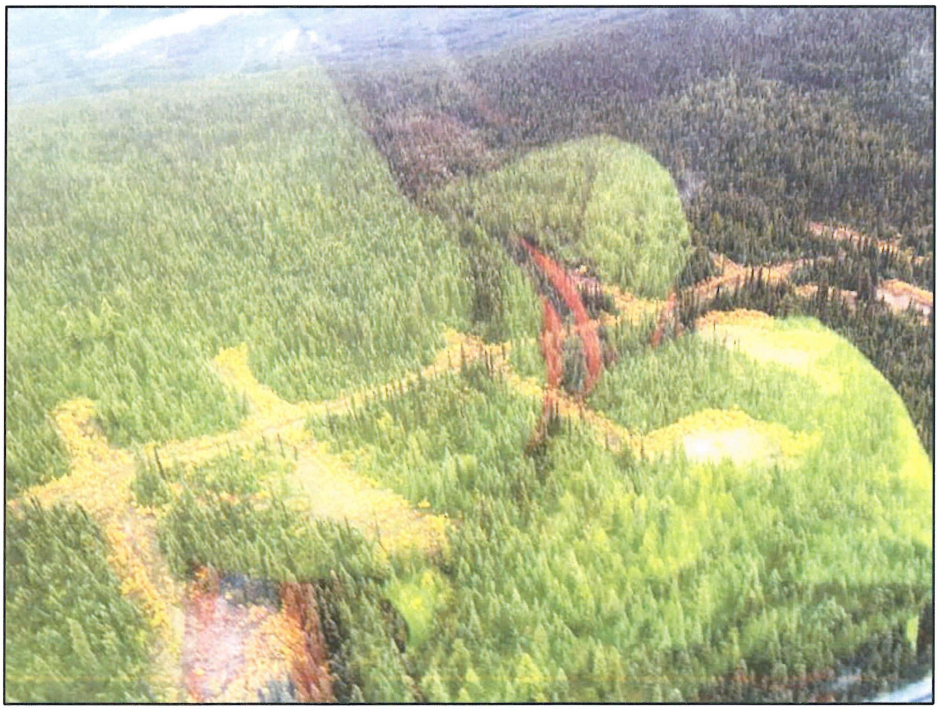
Prospecting in Area 2 uncovered 5.1 % Pb, 2.0 % Zn and 3.4 g/t Ag across 20 m wide replacement oxide bodies with remant sulphides were exposed in Area 3 at the contact between the upper clastic and limestone unit and underlying metasedimentary rocks. Two specimens assayed 4559.9 g/t Ag and 80.1 % Pb, and 23.6 % Pb, 730.3 g/t Ag and 1/1 g/t Au across 15 m and 5.5 % Zn across 9 m. See Figures 5a through f.

In 1986 there were 14 holes drilled at the West Zone, along with 21 trenches. It is unknown exactly how many drillholes were drilled in the East Zone or Hairsine area. See Figure 6a for historic drilling locations.

The work at Hairsine included the collection of 3 rock samples and 53 soil samples which were collected over a two day period. Samples were taken along roads in claims MR 1-10 and in alpine regions and along claim lines in claim MR 11-14. This sampling work and its results have highlighted several areas of substantially anomalous lead-zinc-silver-tin-iridium values. These areas appear to correlate with the Areas 1, 2, 3 of previous reports (see Figure 6b for historic drilling target areas).

As a result of further compilation and receipt of the 2015 sampling results we elected to expand our claims in the area with the addition of the MR 15-26 claims.

**Meister River Area – MR Claim Staking**

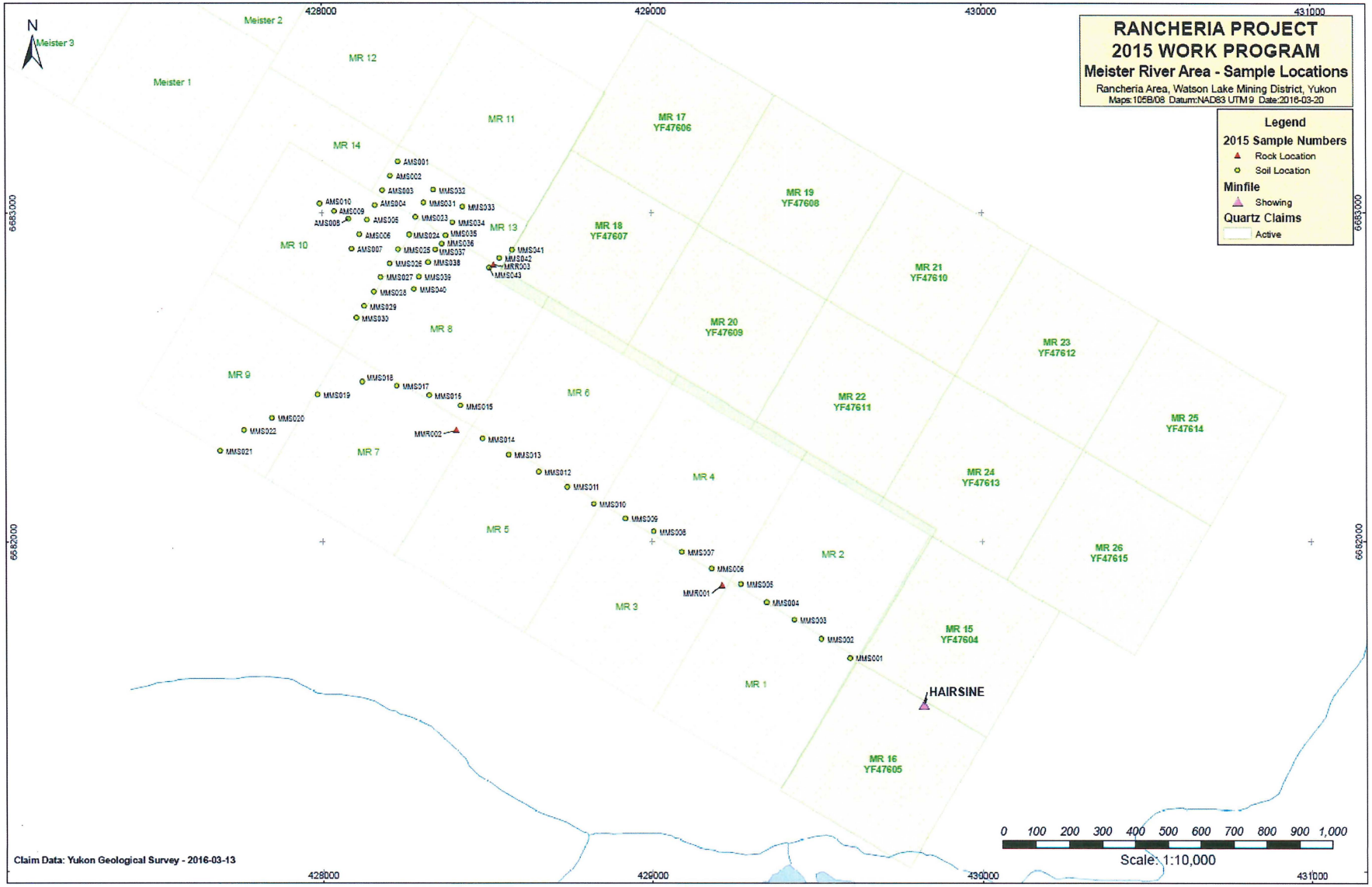


**Meister River- Hairsine Area Roads, Trenches, Possible Drillsites**

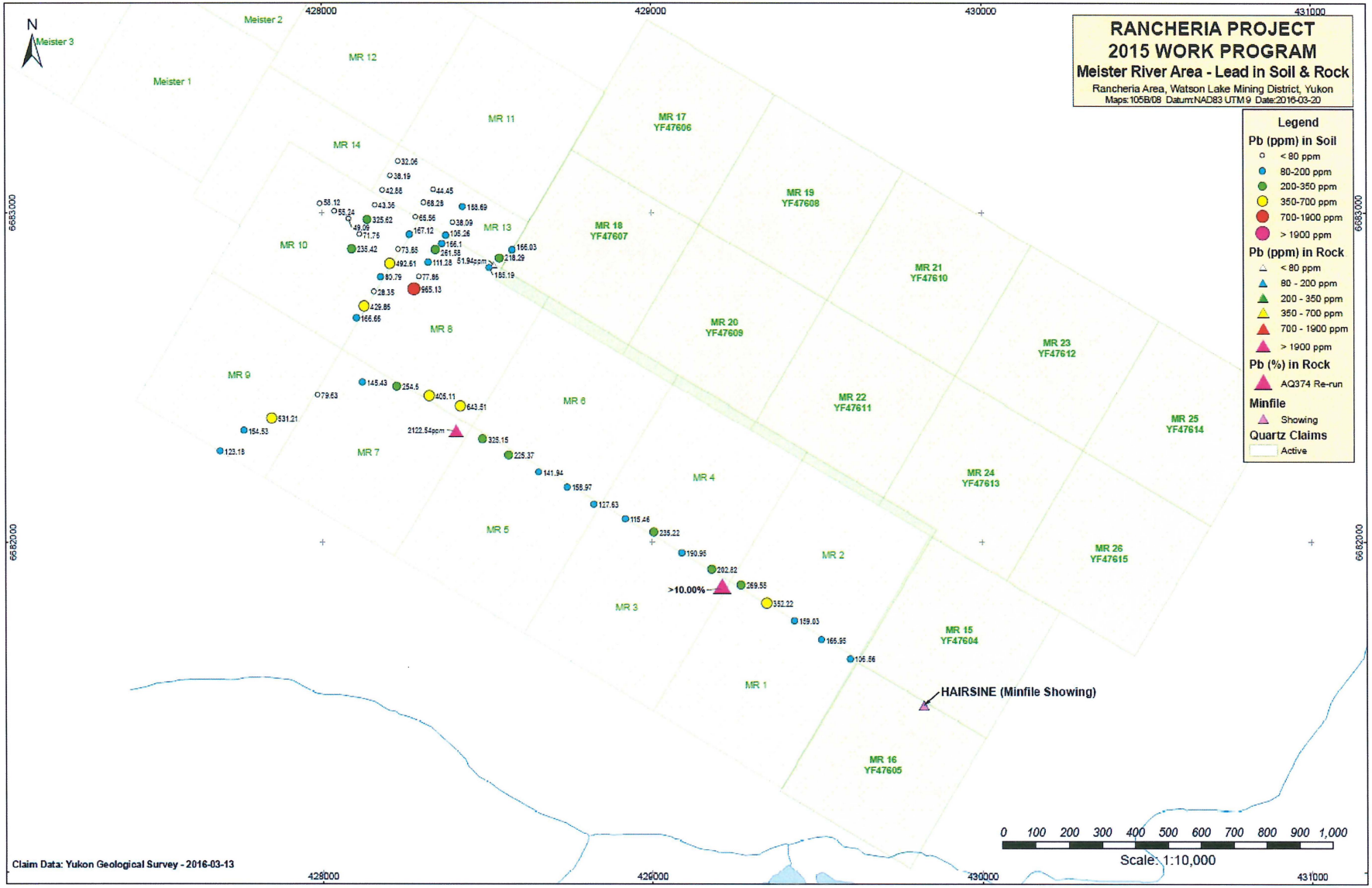
**Meister River Area – MR Claim Folded Limestone near hilltop**

**Meister River Area – MR Claims – View Westward**

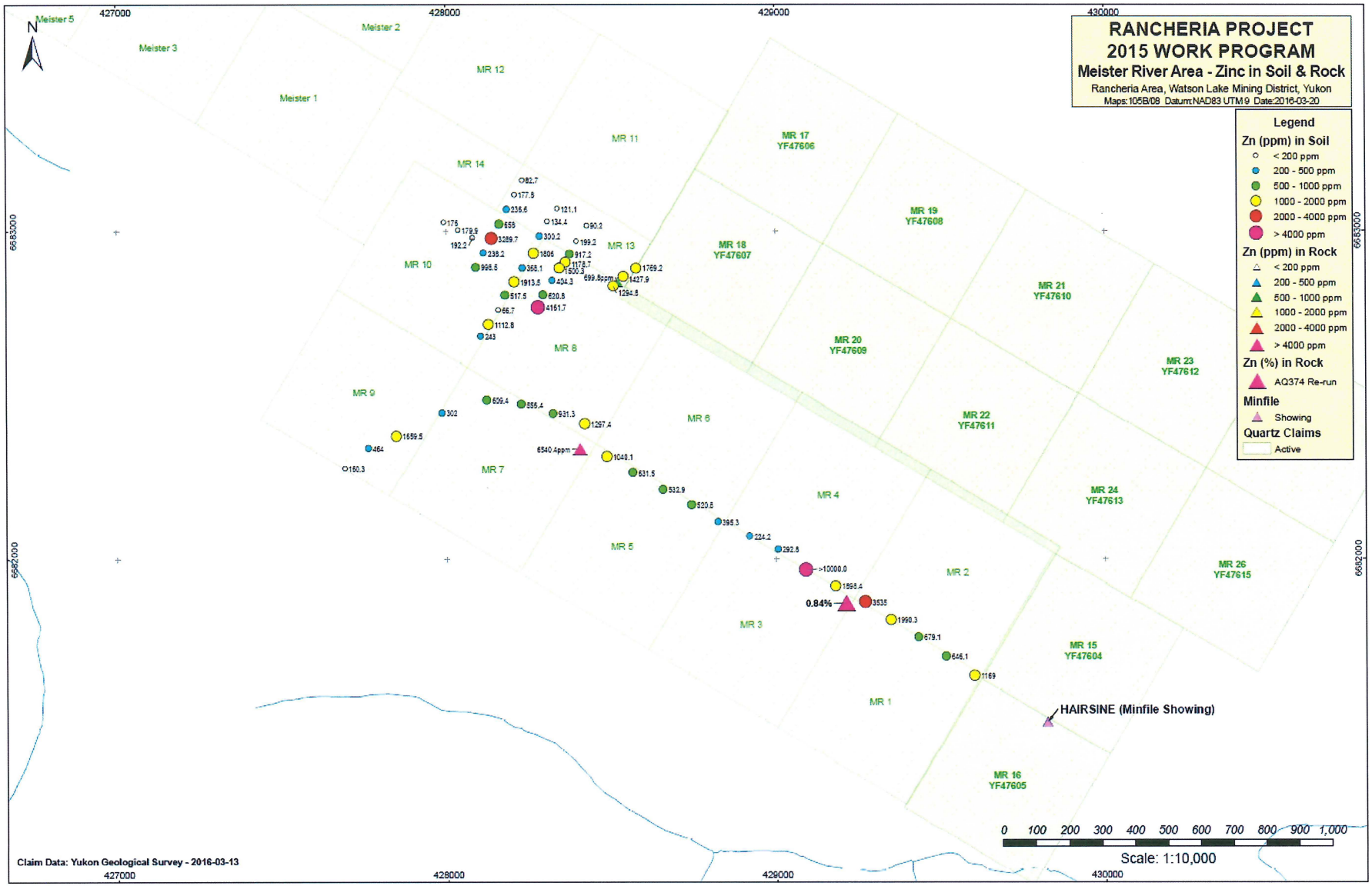
## Figure 5a


RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Sample Locations
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
2015 Sample Numbers
Rock Location
Soil Location
Minfile
Showing
Quartz Claims
Active
N
Meister 1
Meister 2
Meister 3
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 25 YF47614
MR 26 YF47615
HAIRSINE
428000
429000
430000
431000
6563000
6562000
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13

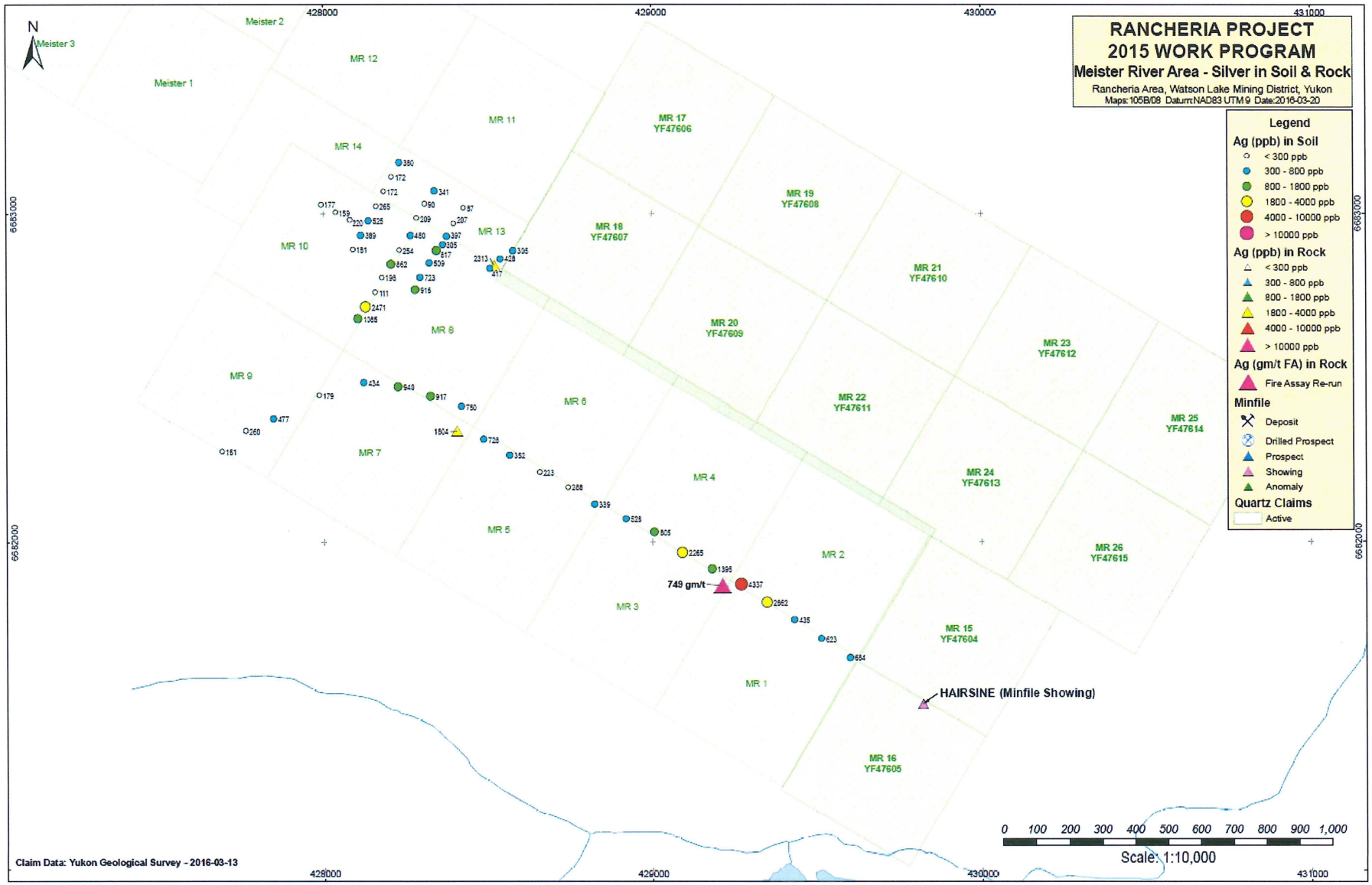
## Figure 5b


RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Lead in Soil & Rock
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
Pb (ppm) in Soil
< 80 ppm
80-200 ppm
200-350 ppm
350-700 ppm
700-1900 ppm
> 1900 ppm
Pb (ppm) in Rock
< 80 ppm
80 - 200 ppm
200 - 350 ppm
350 - 700 ppm
700 - 1900 ppm
> 1900 ppm
Pb (%) in Rock
AQ374 Re-run
Minfile
Showing
Quartz Claims
Active
N
Meister 1
Meister 2
Meister 3
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 25 YF47614
MR 26 YF47615
>10.00%
2122.54ppm
51.94ppm
HAIRSINE (Minfile Showing)
428000
429000
430000
431000
6683000
6682000
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13

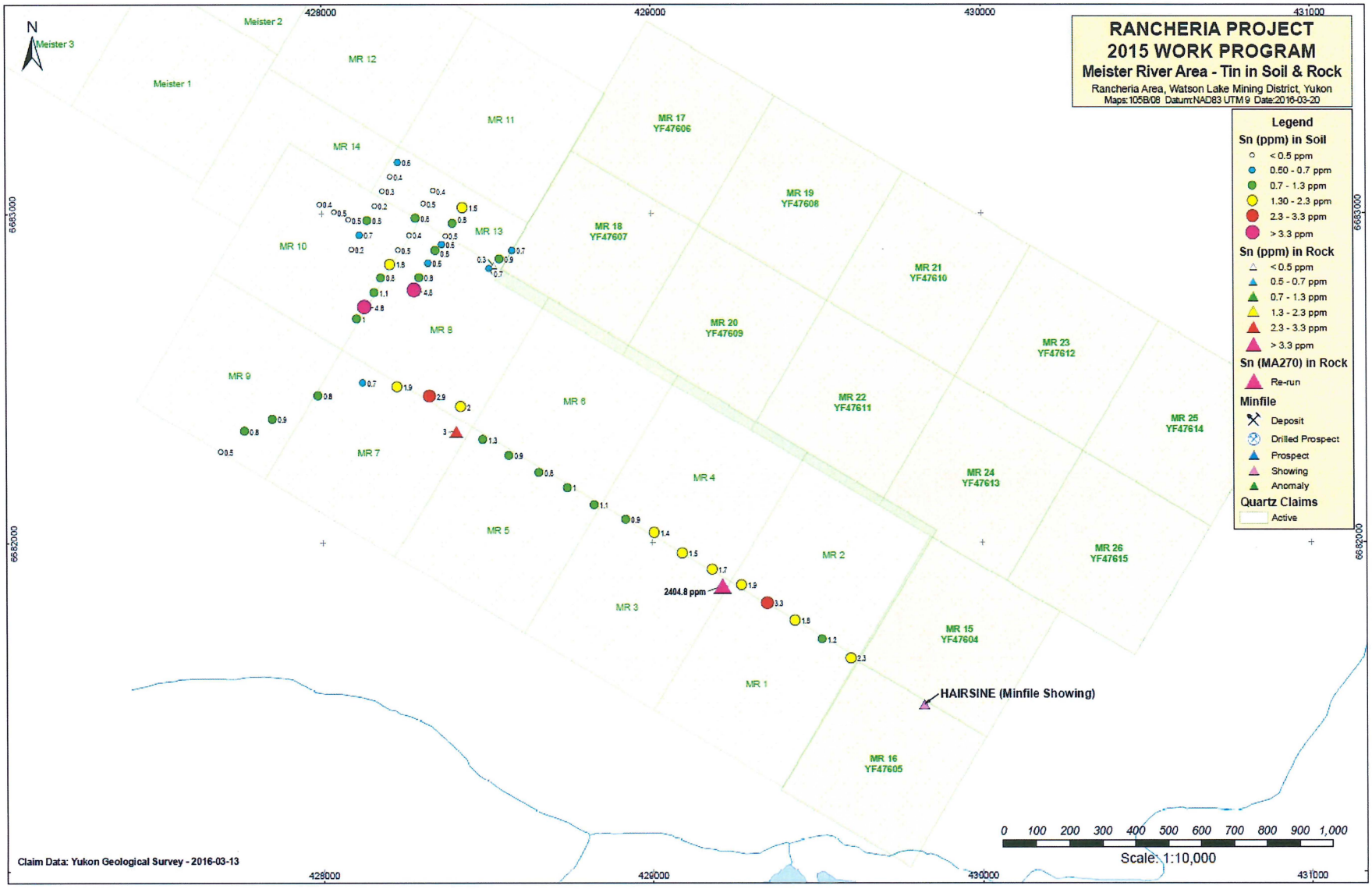
# Figure 5c


RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Zinc in Soil & Rock
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
Zn (ppm) in Soil
< 200 ppm
200 - 500 ppm
500 - 1000 ppm
1000 - 2000 ppm
2000 - 4000 ppm
> 4000 ppm
Zn (ppm) in Rock
< 200 ppm
200 - 500 ppm
500 - 1000 ppm
1000 - 2000 ppm
2000 - 4000 ppm
> 4000 ppm
Zn (%) in Rock
AQ374 Re-run
Minfile
Showing
Quartz Claims
Active
Meister 1
Meister 2
Meister 3
Meister 5
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 26 YF47615
0.84%
6540.4ppm
699.8ppm
>10000.0
HAIRSINE (Minfile Showing)
Claim Data: Yukon Geological Survey - 2016-03-13
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
427000
428000
429000
430000
6683000
6682000

## Figure 5d


RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Silver in Soil & Rock
Rancheria Area, Watson Lake Mining District, Yukon
Maps: 105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
Ag (ppb) in Soil
< 300 ppb
300 - 800 ppb
800 - 1800 ppb
1800 - 4000 ppb
4000 - 10000 ppb
> 10000 ppb
Ag (ppb) in Rock
< 300 ppb
300 - 800 ppb
800 - 1800 ppb
1800 - 4000 ppb
4000 - 10000 ppb
> 10000 ppb
Ag (gm/t FA) in Rock
Fire Assay Re-run
Minfile
Deposit
Drilled Prospect
Prospect
Showing
Anomaly
Quartz Claims
Active
N
Meister 1
Meister 2
Meister 3
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 25 YF47614
MR 26 YF47615
749 gm/t
HAIRSINE (Minfile Showing)
428000
429000
430000
431000
6683000
6682000
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13

## Figure 5e


RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Tin in Soil & Rock
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
Sn (ppm) in Soil
< 0.5 ppm
0.50 - 0.7 ppm
0.7 - 1.3 ppm
1.30 - 2.3 ppm
2.3 - 3.3 ppm
> 3.3 ppm
Sn (ppm) in Rock
< 0.5 ppm
0.5 - 0.7 ppm
0.7 - 1.3 ppm
1.3 - 2.3 ppm
2.3 - 3.3 ppm
> 3.3 ppm
Sn (MA270) in Rock
Re-run
Minfile
Deposit
Drilled Prospect
Prospect
Showing
Anomaly
Quartz Claims
Active
N
Meister 1
Meister 2
Meister 3
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 25 YF47614
MR 26 YF47615
2404.8 ppm
HAIRSINE (Minfile Showing)
428000
429000
430000
431000
6683000
6682000
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13

## Figure 5f

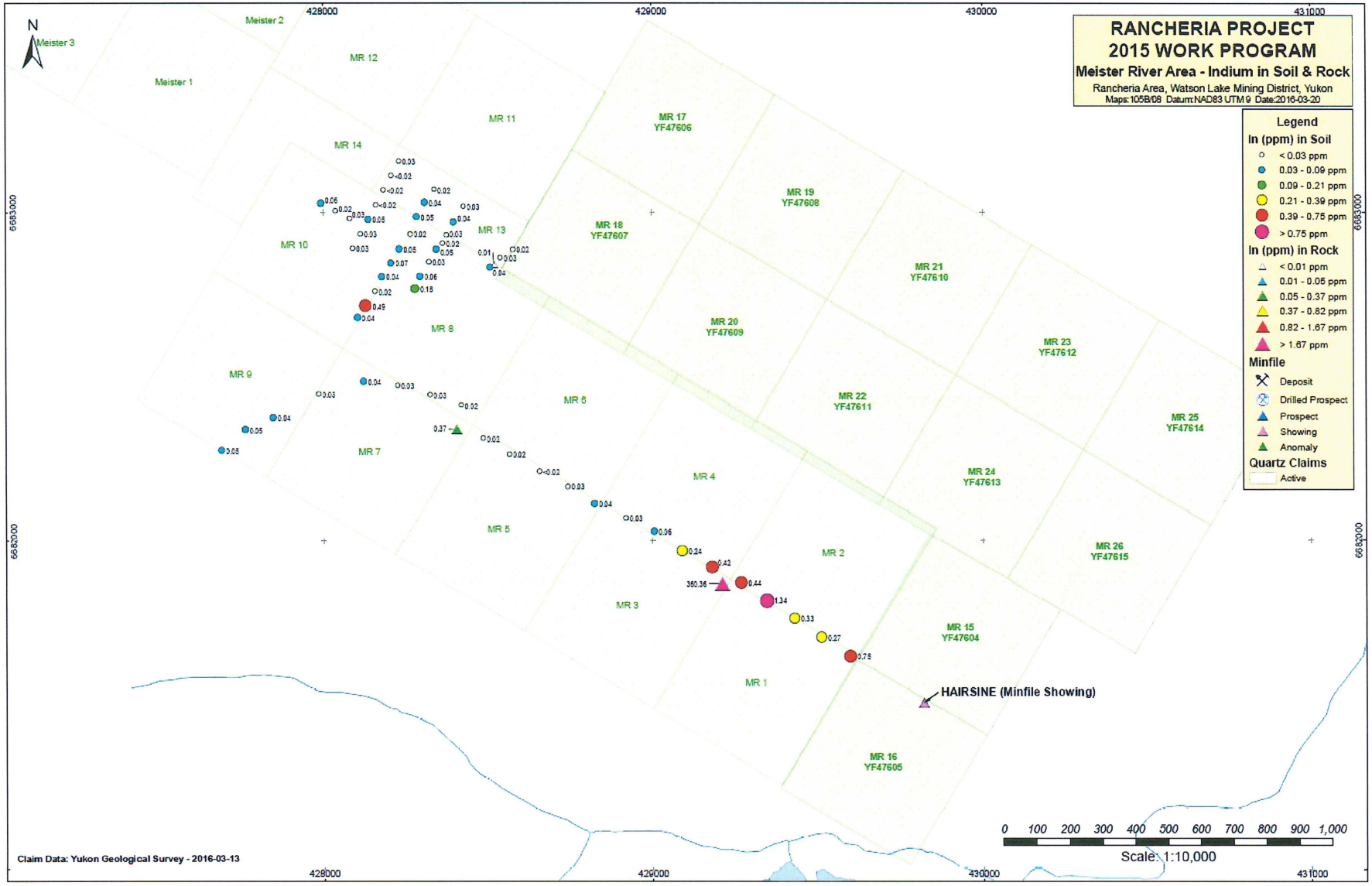

RANCHERIA PROJECT
2015 WORK PROGRAM
Meister River Area - Indium in Soil & Rock
Rancheria Area, Watson Lake Mining District, Yukon
Maps:105B/08 Datum:NAD83 UTM 9 Date:2016-03-20
Legend
In (ppm) in Soil
< 0.03 ppm
0.03 - 0.09 ppm
0.09 - 0.21 ppm
0.21 - 0.39 ppm
0.39 - 0.75 ppm
> 0.75 ppm
In (ppm) in Rock
< 0.01 ppm
0.01 - 0.05 ppm
0.05 - 0.37 ppm
0.37 - 0.82 ppm
0.82 - 1.67 ppm
> 1.67 ppm
Minfile
Deposit
Drilled Prospect
Prospect
Showing
Anomaly
Quartz Claims
Active
N
Meister 1
Meister 2
Meister 3
MR 1
MR 2
MR 3
MR 4
MR 5
MR 6
MR 7
MR 8
MR 9
MR 10
MR 11
MR 12
MR 13
MR 14
MR 15 YF47604
MR 16 YF47605
MR 17 YF47606
MR 18 YF47607
MR 19 YF47608
MR 20 YF47609
MR 21 YF47610
MR 22 YF47611
MR 23 YF47612
MR 24 YF47613
MR 25 YF47614
MR 26 YF47615
HAIRSINE (Minfile Showing)
428000
429000
430000
431000
6683000
6682000
0 100 200 300 400 500 600 700 800 900 1,000
Scale: 1:10,000
Claim Data: Yukon Geological Survey - 2016-03-13

**Figure 6a: 1986 Historic Drilling South Zone**

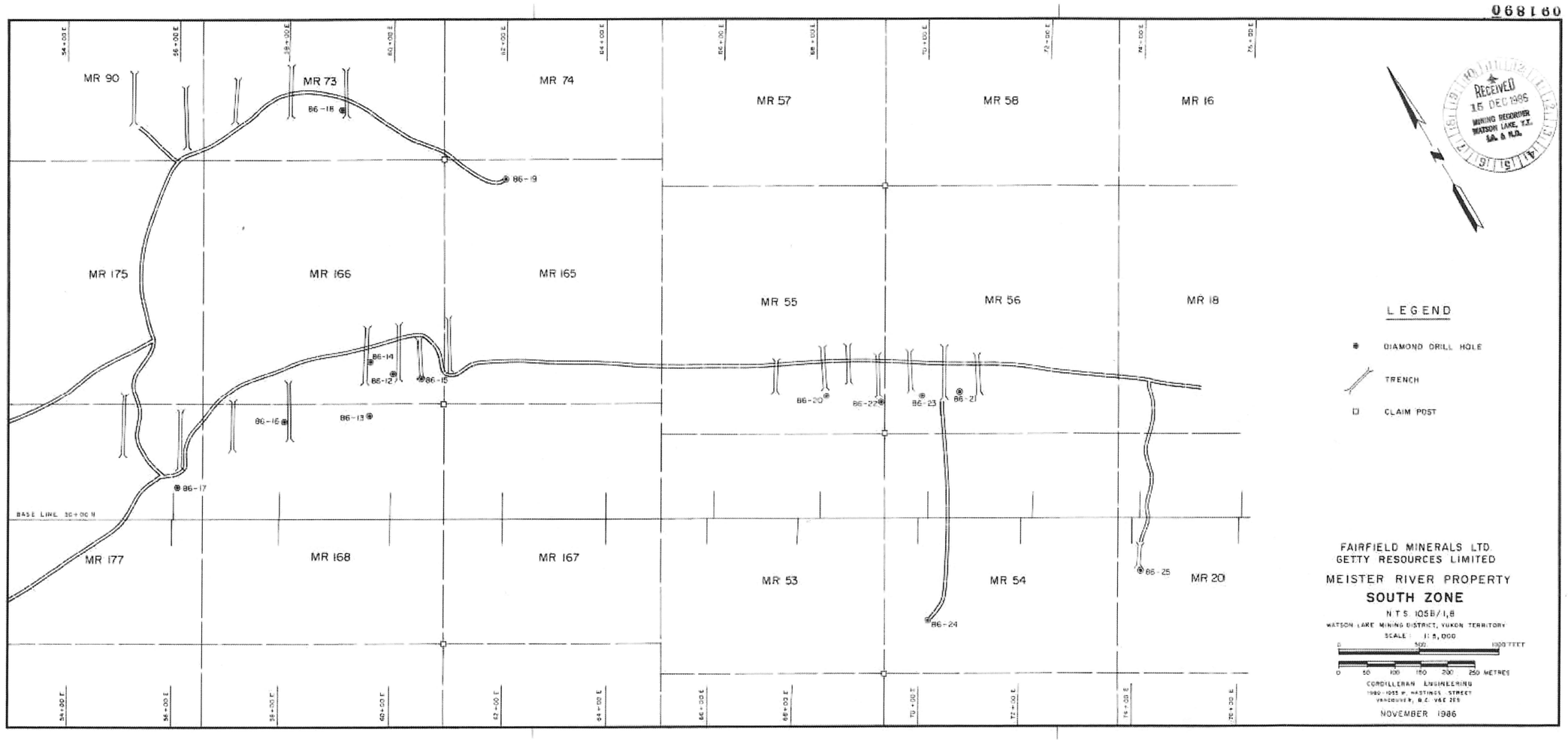
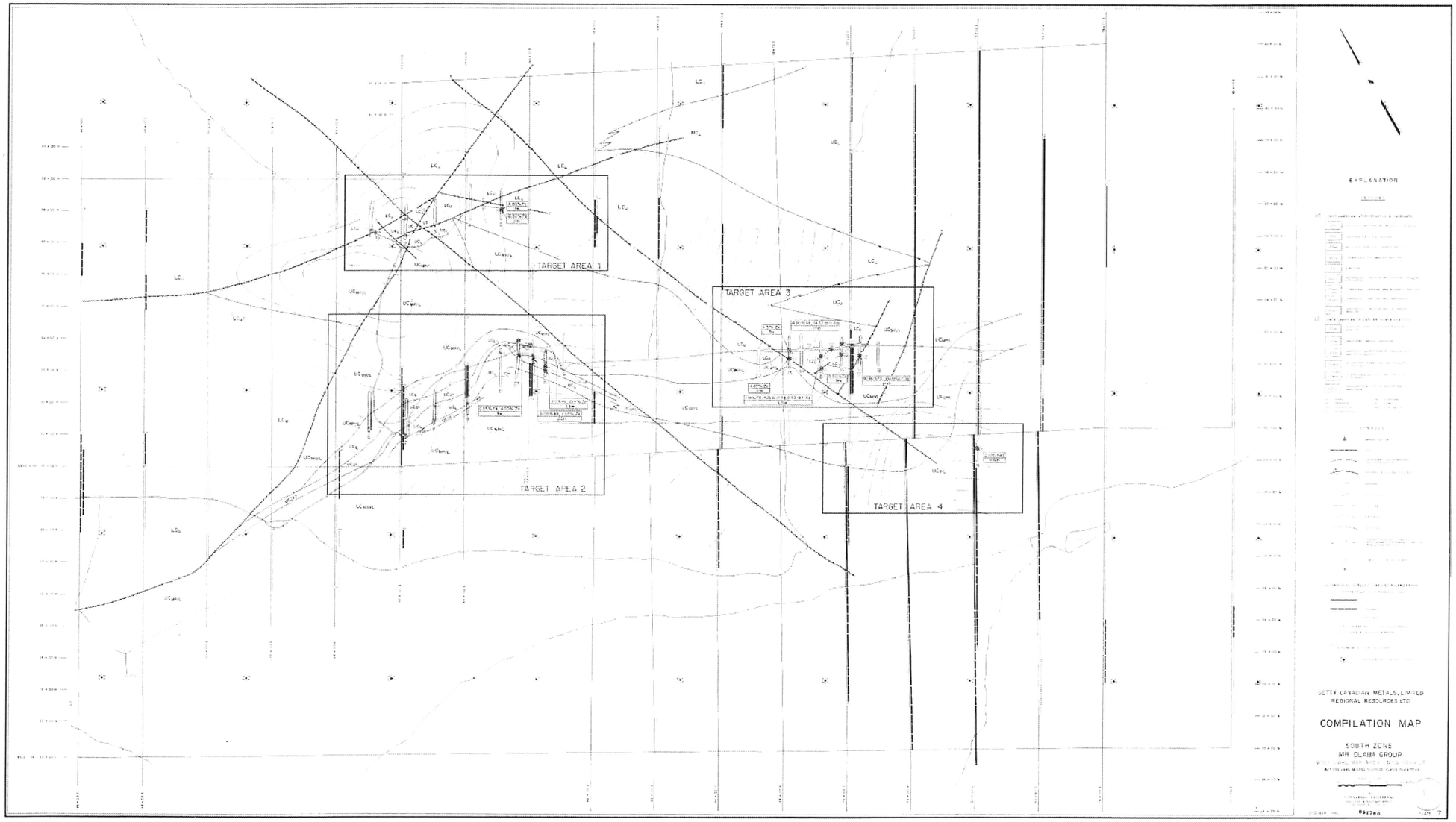


**Figure 6b: 1986 Historic Drilling Target Areas**



**Hardtack-Kubiak Area**

A few days' time was spent along the extensive secondary road network that leaves the Alaska Highway approximately 15 km east of the Silvertip road.

This old exploration trail apparently was built in the early 1980's to service the exploration projects located near the headwaters of Spencer Creek. This road is plotted on some maps and is now mostly only ATV accessible. There is a considerable amount of other unmapped roads in the area including one that splits off on the ridge crest north of Hartack occurrence to the Kearns minfile areas and on to Meister River where there's another network of roads providing ATV access to the Hairsine area.

One day was spent investigating the Kubiak minfile located where shales were noted overlain shallowly by limestone with only minor-trace galena noted in thin erratic quartz vein sweats. A total of 5 rock samples were collected in this area.

Another day was spent reconnoitering the extensive road network on ATV all the way to the Lena occurrence and noting the drillcore at Hardtack and extensive trenches in the Hardtack to Kodiak areas.

These areas have seen quite extensive road building, trenching and in some cases drilling. In the Kodiak area for example extensive bulldozer trenching has exposed only very limited, narrow lead-zinc pods indicating very limited potential. At Hardtack similarly there's a large bulldozer trench that also shows only a very narrow gossanous shear associated lead-zinc pods trending down the length of the trench.

Exploration potential appears to have been mostly tested, however potential remains in areas of poor exposure and valley fill.

**Head Area Viewed from the West**

**Head Area –Quartz Veined Phylites Overlain by Limestones**

**Hardtack Area- old HQ sized drillcore on road to the west of Hardtack**

**Hardtack Area – old large bulldozer trench**

**Kodiak Area Trenches**

# STATEMENT OF QUALIFICATIONS

I, Adam Travis, of 5389 Buchanan Road, Peachland, BC, hereby certify that:

- I am a graduate of University of British Columbia, with a B.Sc in Geological Sciences (1990)

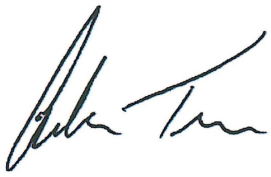
- I am presently employed as a consulting geologist, President and C.E.O of Colorado Resources Ltd. ( TSX-V: CXO), located in West Kelowna BC. In addition I also serve various advisory roles for both public and privately held companies.

- I have been working as a geologist in mineral exploration, exploration management, geological research, and administration of advanced mine and exploration projects on a near continuous basis since 1990. In addition, during the summers between 1979 and 1990, I worked as a field assistant on metals exploration projects in Yukon and northern British Columbia.

- My career has given me experience in precious and base metal, industrial minerals, uranium, and rare earth element exploration primarily in British Columbia, Yukon, Alaska, Western China, Western USA, Africa and Mexico.

- I have raised over $25 million in the last 5 years for Colorado Resources for grassroots and early stage projects in the Yukon and northern British Columbia.

- Companies and projects that I represent in the Yukon have spent nearly $7 million on them in the last 4 years as a result of my work.



Adam Travis, B.Sc
March 24, 2016

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# Appendix 1:

Cost Statement

| Exploration Work Type | Description |
|---|---|
| **Field Program** | |
| Adam Travis | Sr. Geologist August 18-30th |
| Cathro Resources Corp. (M.Cathro) | Sr. Geologist August 18-30th, March 14-17th |
| North Track Exploration (D.Coolidge) | Sr. Prospector August 18-30th, March 14-17th |
| Jerry Lamha | Sr. Prospector March 15th |
| | |
| **Office Studies/Logistics** | |
| Adam Travis | Assessment report writing- Geologist |
| Cazador Resources | Assessment report writing- Assistant |
| Meridian Mapping Ltd* | GIS |
| | |
| **Travel** | |
| Adam Travis* | Fuel, meals, accomodation |
| North Track Exploration* | Meals |
| Cathro Resources Corp.* | Travel (flight), fuel, meals, accomodation |
| | |
| | |
| **Equipment/Supplies** | |
| Adam Travis | Supplies: Consumables, maps |
| Adam Travis | Equipment: ATV (two ATV's 2 days each) |
| Adam Travis | Equipment: Transport Trailer |
| North Track Exploration* | Maps, consumables: nails, wire |
| Cathro Resources Corp.* | Consumables: wire |
| | |
| **Transportation** | |
| Capital Helicopters Inc. | August 28-30, 2015 flights WET |
| Tundra Helicopters | March 15, 2016 flight WET |
| Tundra Helicopters | March 16, 2016 flight WET |
| Adam Travis | Private Vehicle- day rate |
| North Track Exploration | Private Vehicle- km rate |
| | |
| | |
| | |
| **Geochemical** | |
| Bureau Veritas Commodities Canada Ltd | 127 soil samples |
| | 8 rock samples |
| | |
| | |

*Item not included in YMEP Expense Claim as not applicable expense

# Appendix 2:

## Sample locations and descriptions

## Rock sample location and descriptions

| Sample | Type | Date | UTM Zone | NAD83 UTM-E | NAD83 UTM-N | Elev (m) | Sampler | Depth (cm) | Colour | Horizon | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ARR001 | Rock | 8/27/2015 | 9 | 424547 | 6672538 | 1310 | AT | 0 | white-orange | talus | quartz vein float with ankeritic stain and manganese and trace galena ? In talus slope comprised dominantly of fine grained sediments |
| ARR002 | Rock | 8/29/2015 | 9 | 419315 | 6674294 | 1515 | AT | 2 | white | bedrock | quartz vein exposed in old trench trends northerly in base of trench, grab along 5 m of > 30 cm vein with Pbs , ZnS ( Check assays) |
| DRR001 | Rock | 8/27/2015 | 9 | 424524 | 6672482 | 1298 | DC | | | | 15x 10x 4 cm block. Talus float. Dark red-black, hackly weathered face. Fine grained galena blebs~0.5%. Hosted in sugary limestone with anchorite and calcite veinlets. Galena is associated with anchorite. |
| MMR001 | Rock | 8/29/2015 | 9 | 429212 | 6681867 | 1262 | MC | | | | Rock; grab; trench subcrop. Pale green oxidized carbonate layer ~ 1 m wide with 10% FeOx; zinc showing? Strike 070 dip steeply south |
| MMR002 | Rock | 8/29/2015 | 9 | 428406 | 6682338 | 1360 | MC | | | | Rock; grab; trench subcrop. Big trench with white and grey limestone; slightly frothy brown stained limestone with FeOx and ZnOx? |
| MRR001 | Rock | 8/29/2015 | 9 | 419265 | 6674261 | 1520 | MC | | | | Rock, outcrop 1 m chip. Hardtack showing; outcrop in large trench; 1 m wide chip of rusty qtz carb vein with ~ 50 cm of goethite strike/dip 040/30S |
| MRR002 | Rock | 8/29/2015 | 9 | 419268 | 6674259 | 1521 | MC | | | | Rock, outcrop 1 m chip. Parallel vein 5 m south of MRR001; Hardtack; outcrop in large trench; 1 m wide chip of rusty qtz carb vein with ~ 50 cm of goethite strike/dip 040/30S |
| MRR003 | Rock | 8/30/2015 | 9 | 428520 | 6682841 | 1417 | MC | | | | Rock; trench rubble. Tan-orange siliceous rock; silicified limestone or quartzite; 10% orange-red goethite boxwork after ZnS? |

## Soil sample location and decription

| Sample | Type | Date | UTM Zone | NAD83 UTM-E | NAD83 UTM-N | Elev (m) | Sampler | Depth cm | Colour | Horizon | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AMS001 | Soil | 8/30/2015 | 9 | 428232 | 6683155 | | AT | | | | Approx coords from RE |
| AMS002 | Soil | 8/30/2015 | 9 | 428209 | 6683111 | | AT | | | | Approx coords from RE |
| AMS003 | Soil | 8/30/2015 | 9 | 428185 | 6683067 | | AT | | | | Approx coords from RE |
| AMS004 | Soil | 8/30/2015 | 9 | 428162 | 6683022 | | AT | | | | Approx coords from RE |
| AMS005 | Soil | 8/30/2015 | 9 | 428138 | 6682978 | | AT | | | | Approx coords from RE |
| AMS006 | Soil | 8/30/2015 | 9 | 428115 | 6682934 | | AT | | | | Approx coords from RE |
| AMS007 | Soil | 8/30/2015 | 9 | 428091 | 6682890 | | AT | | | | Approx coords from RE |
| AMS008 | Soil | 8/30/2015 | 9 | 428082 | 6682980 | | AT | | | | Approx coords from RE |
| AMS009 | Soil | 8/30/2015 | 9 | 428038 | 6683003 | | AT | | | | Approx coords from RE |
| AMS010 | Soil | 8/30/2015 | 9 | 427994 | 6683027 | | AT | | | | Approx coords from RE |
| ARS001 | Soil | 8/28/2015 | 9 | 432079 | 6659639 | 1487.424 | AT | 15 | light brown | b | Start of Virginia soil line down spur, start above treeline |
| ARS002 | Soil | 8/28/2015 | 9 | 432177 | 6659623 | 1466.3928 | AT | 15 | light brown | b | above treeline |
| ARS003 | Soil | 8/28/2015 | 9 | 432273 | 6659604 | 1437.4368 | AT | 15 | orange brown | b | orange brown underneath grey brown (till ?) |
| ARS004 | Soil | 8/28/2015 | 9 | 432334 | 6659530 | 1423.416 | AT | 15 | light brown | b | |
| ARS005 | Soil | 8/28/2015 | 9 | 432428 | 6659485 | 1388.0592 | AT | 15 | light brown | b | starting to get into thick stunted spruce |
| ARS006 | Soil | 8/28/2015 | 9 | 432518 | 6659417 | 1357.884 | AT | 20 | dark brown | A/B | humus |
| ARS007 | Soil | 8/28/2015 | 9 | 432595 | 6659346 | 1350.264 | AT | 15 | light brown | b | |
| ARS008 | Soil | 8/28/2015 | 9 | 432664 | 6659276 | 1354.5312 | AT | 15 | light brown | b | |
| ARS009 | Soil | 8/28/2015 | 9 | 432730 | 6659207 | 1345.3872 | AT | 15 | light brown | b | |
| ARS010 | Soil | 8/28/2015 | 9 | 432823 | 6659159 | 1342.644 | AT | 30 | light brown | b | under tree root |
| ARS011 | Soil | 8/28/2015 | 9 | 432920 | 6659111 | 1336.2432 | AT | 15 | light brown | b | |
| ARS012 | Soil | 8/28/2015 | 9 | 432993 | 6659040 | 1318.8696 | AT | 15 | light brown | b | |
| ARS013 | Soil | 8/28/2015 | 9 | 433076 | 6658990 | 1324.6608 | AT | 15 | light brown | b | |
| ARS014 | Soil | 8/28/2015 | 9 | 433123 | 6658964 | 1309.7256 | AT | 20 | light brown | b | under tree root |
| ARS015 | Soil | 8/28/2015 | 9 | 433155 | 6658942 | 1312.7736 | AT | 15 | light brown | b | |
| ARS016 | Soil | 8/28/2015 | 9 | 433200 | 6658908 | 1291.7424 | AT | 20 | light brown | b | |
| ARS017 | Soil | 8/28/2015 | 9 | 433201 | 6658861 | 1277.112 | AT | 20 | light brown | b | find bear den and meet up with Don and Mike for lunch |
| ARS018 | Soil | 8/28/2015 | 9 | 433150 | 6658923 | 1293.2664 | AT | 15 | brown | b | terrain seems to be more undulating with possible limestone subcrop and seeing old flags |
| ARS019 | Soil | 8/28/2015 | 9 | 433260 | 6658837 | 1278.3312 | AT | 15 | brown | b | |
| ARS020 | Soil | 8/28/2015 | 9 | 433342 | 6658781 | 1271.3208 | AT | 15 | brown | b | |
| ARS021 | Soil | 8/28/2015 | 9 | 433399 | 6658696 | 1255.4712 | AT | 15 | brown | b | |
| ARS022 | Soil | 8/28/2015 | 9 | 433472 | 6658617 | 1229.2584 | AT | 15 | brown | b | |
| ARS023 | Soil | 8/28/2015 | 9 | 433546 | 6658551 | 1212.1896 | AT | 15 | brown | b | |
| ARS024 | Soil | 8/28/2015 | 9 | 433585 | 6658466 | 1193.5968 | AT | 15 | brown | b | |
| ARS025 | Soil | 8/28/2015 | 9 | 433635 | 6658384 | 1198.7784 | AT | 15 | brown | b | out on flats NE of swampy open area |
| ARS026 | Soil | 8/28/2015 | 9 | 433701 | 6658314 | 1191.4632 | AT | 15 | brown | b | out on flats NE of swampy open area |
| ARS027 | Soil | 8/28/2015 | 9 | 433758 | 6658235 | 1181.7096 | AT | 15 | brown | b | out on flats NE of swampy open area |
| DRS001 | Soil | 8/28/2015 | 9 | 432029 | 6659589 | 1501.4448 | DC | 10 | dk bn | B/C | Buck brush; on an east facing slope. |
| DRS002 | Soil | 8/28/2015 | 9 | 432120 | 6659553 | 1472.7936 | DC | 15 | brown | B | Buck brush; on an east facing slope. |
| DRS003 | Soil | 8/28/2015 | 9 | 432216 | 6659522 | 1451.1528 | DC | 15 | or-bn | B | sandy talus fines. |
| DRS004 | Soil | 8/28/2015 | 9 | 432300 | 6659474 | 1427.0736 | DC | 10 | dk bn | B | phyllite chips and fines |
| DRS005 | Soil | 8/28/2015 | 9 | 432339 | 6659390 | 1406.652 | DC | 30 | gy-bk | A/B | loess, humus; tall balsam fir. |
| DRS006 | Soil | 8/28/2015 | 9 | 432426 | 6659316 | 1364.2848 | DC | 25 | grey | B/C | light grey, heavily treed. |
| DRS007 | Soil | 8/28/2015 | 9 | 432507 | 6659242 | 1346.6064 | DC | 15 | lt grey | B/C | light grey soil in thick balsam forest. |
| DRS008 | Soil | 8/28/2015 | 9 | 432610 | 6659237 | 1344.4728 | DC | 20 | gy-bn | B/C | phyllite chips and fines |
| DRS009 | Soil | 8/28/2015 | 9 | 432698 | 6659208 | 1348.74 | DC | 20 | lt bn | B/C | Increasing clay content. |
| DRS010 | Soil | 8/28/2015 | 9 | 432783 | 6659141 | 1343.5584 | DC | 15 | or-bn | B-C | Better soil development and more altered looking colour. |
| DRS011 | Soil | 8/28/2015 | 9 | 432855 | 6659078 | 1338.6816 | DC | 12 | or-bn | C | fine grained with rock chips |
| DRS012 | Soil | 8/28/2015 | 9 | 432930 | 6659004 | 1327.0992 | DC | 15 | lt or-bn | B/C | gritty fine grained sand |
| DRS013 | Soil | 8/28/2015 | 9 | 432976 | 6658986 | 1325.88 | DC | 20 | or-bn | C | gritty with rounded quartz cobbles. Switch to 50 m sample spacing. |
| DRS014 | Soil | 8/28/2015 | 9 | 433014 | 6658955 | 1324.9656 | DC | 18 | or-bn | C | fine grained, well developed with limestone outcrop proximal. |
| DRS015 | Soil | 8/28/2015 | 9 | 433062 | 6658922 | 1319.4792 | DC | 20 | or-bn | B | Cross north-south trending gully. |
| DRS016 | Soil | 8/28/2015 | 9 | 433102 | 6658908 | 1305.1536 | DC | 18 | or-bn | B/C | gritty with granite cobbles |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DRS017 | Soil | 8/28/2015 | 9 | 433178 | 6658853 | 1293.2664 | DC | 15 | bn-or | B/C | small pebbles and grit |
| DRS018 | Soil | 8/28/2015 | 9 | 433240 | 6658771 | 1259.1288 | DC | 18 | lt bn | B/C | grit and sand. |
| DRS019 | Soil | 8/28/2015 | 9 | 433280 | 6658683 | 1252.1184 | DC | 15 | lt bn | B/C | side hill with rounded granite float |
| DRS020 | Soil | 8/28/2015 | 9 | 433356 | 6658614 | 1232.0016 | DC | 20 | red-brown | C | granitoid cobbles. |
| DRS021 | Soil | 8/28/2015 | 9 | 433439 | 6658546 | 1220.724 | DC | 15 | bn-or | B/C | Mature pines and granite cobbles. |
| DRS022 | Soil | 8/28/2015 | 9 | 433509 | 6658464 | 1205.7888 | DC | 18 | bn-or | B/C | Fine grained soil |
| DRS023 | Soil | 8/28/2015 | 9 | 433552 | 6658367 | 1197.2544 | DC | 15 | red-brown | B/C | Sandy with pebbles. Line end on small knoll above swamp. |
| MMS001 | Soil | 8/29/2015 | 9 | 429601 | 6681646 | 1228.344 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS002 | Soil | 8/29/2015 | 9 | 429514 | 6681704 | 1235.0496 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS003 | Soil | 8/29/2015 | 9 | 429432 | 6681762 | 1239.6216 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS004 | Soil | 8/29/2015 | 9 | 429348 | 6681815 | 1242.6696 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS005 | Soil | 8/29/2015 | 9 | 429270 | 6681870 | 1270.1016 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS006 | Soil | 8/29/2015 | 9 | 429181 | 6681918 | 1270.1016 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS007 | Soil | 8/29/2015 | 9 | 429091 | 6681968 | 1291.4376 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS008 | Soil | 8/29/2015 | 9 | 429006 | 6682030 | 1304.8488 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS009 | Soil | 8/29/2015 | 9 | 428920 | 6682070 | 1318.5648 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS010 | Soil | 8/29/2015 | 9 | 428824 | 6682114 | 1331.0616 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS011 | Soil | 8/29/2015 | 9 | 428744 | 6682166 | 1341.7296 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS012 | Soil | 8/29/2015 | 9 | 428657 | 6682212 | 1345.3872 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS013 | Soil | 8/29/2015 | 9 | 428566 | 6682264 | 1348.74 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS014 | Soil | 8/29/2015 | 9 | 428487 | 6682313 | 1351.788 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS015 | Soil | 8/29/2015 | 9 | 428420 | 6682413 | 1371.2952 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS016 | Soil | 8/29/2015 | 9 | 428325 | 6682444 | 1385.316 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS017 | Soil | 8/29/2015 | 9 | 428227 | 6682473 | 1398.7272 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS018 | Soil | 8/29/2015 | 9 | 428123 | 6682486 | 1409.3952 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS019 | Soil | 8/29/2015 | 9 | 427987 | 6682447 | 1420.368 | MC | 25 | green-grey | b | road cut, black phyllite, clay-sand |
| MMS020 | Soil | 8/29/2015 | 9 | 427848 | 6682376 | 1421.2824 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS021 | Soil | 8/29/2015 | 9 | 427691 | 6682277 | 1413.3576 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS022 | Soil | 8/29/2015 | 9 | 427763 | 6682339 | 1422.1968 | MC | 25 | green-grey | b | road cut, limestone, clay-sand |
| MMS023 | Soil | 8/30/2015 | 9 | 428285 | 6682985 | 1453.896 | MC | 30 | or | b | clay-silica-sand; ls and QV |
| MMS024 | Soil | 8/30/2015 | 9 | 428266 | 6682933 | 1446.276 | MC | 30 | br | b | clay-silica-sand; edge of gully @120 degrees |
| MMS025 | Soil | 8/30/2015 | 9 | 428232 | 6682888 | 1453.5912 | MC | 30 | br | b | clay-silica-sand; ls float |
| MMS026 | Soil | 8/30/2015 | 9 | 428207 | 6682845 | 1456.6392 | MC | 30 | br | b | clay-silica-sand; ls float |
| MMS027 | Soil | 8/30/2015 | 9 | 428179 | 6682804 | 1458.7728 | MC | 30 | br | b | clay-silica-sand; phyllite |
| MMS028 | Soil | 8/30/2015 | 9 | 428159 | 6682759 | 1458.1632 | MC | 30 | br | b | clay-silica-sand; phyllite |
| MMS029 | Soil | 8/30/2015 | 9 | 428129 | 6682715 | 1458.1632 | MC | 30 | br | b | clay-silica-sand; ls |
| MMS030 | Soil | 8/30/2015 | 9 | 428105 | 6682680 | 1461.516 | MC | 20 | br | b | clay-silica-sand; subcrop mixed phyllite, ls, qv |
| MMS031 | Soil | 8/30/2015 | 9 | 428309 | 6683029 | 1450.2384 | MC | 20 | or | b | clay-silica-sand; quartzite and qv |
| MMS032 | Soil | 8/30/2015 | 9 | 428339 | 6683068 | | MC | 20 | or | b | clay-silica-sand; quartzite and qv |
| MMS033 | Soil | 8/30/2015 | 9 | 428428 | 6683017 | 1430.4264 | MC | 20 | or | b | clay-silica-sand; quartzite, phyllite and qv |
| MMS034 | Soil | 8/30/2015 | 9 | 428397 | 6682969 | 1435.608 | MC | 20 | or | b | clay-silica-sand; quartzite, phyllite and qv |
| MMS035 | Soil | 8/30/2015 | 9 | 428376 | 6682930 | 1441.704 | MC | 20 | or | b | clay-silica-sand; quartzite, phyllite and qv |
| MMS036 | Soil | 8/30/2015 | 9 | 428364 | 6682905 | 1439.8752 | MC | 20 | or | b | clay-silica-sand; gully with cat road to trench |
| MMS037 | Soil | 8/30/2015 | 9 | 428345 | 6682887 | 1443.5328 | MC | 20 | or | b | clay-silica-sand; ls |
| MMS038 | Soil | 8/30/2015 | 9 | 428323 | 6682849 | 1444.1424 | MC | 20 | or | b | clay-silica-sand; ls |
| MMS039 | Soil | 8/30/2015 | 9 | 428295 | 6682805 | 1444.1424 | MC | 20 | or | b | clay-silica-sand; ls |
| MMS040 | Soil | 8/30/2015 | 9 | 428280 | 6682767 | 1449.324 | MC | 20 | or | b | clay-silica-sand; next to ls-dol scarp |
| MMS041 | Soil | 8/30/2015 | 9 | 428578 | 6682886 | 1407.8712 | MC | 20 | or | b | clay-silica-sand; upper bank; tr NE End rd |
| MMS042 | Soil | 8/30/2015 | 9 | 428539 | 6682861 | 1412.1384 | MC | 20 | tan-or | b | clay-silica-sand; upper bank; trench centre |
| MMS043 | Soil | 8/30/2015 | 9 | 428508 | 6682832 | 1419.4536 | MC | 20 | tan-or | b | clay-silica-sand |
| MRS001 | Soil | 8/28/2015 | 9 | 431948 | 6659526 | 1498.7016 | MC | 20 | brown | c | phyllite and grey quartzite float |
| MRS002 | Soil | 8/28/2015 | 9 | 432048 | 6659465 | 1470.3552 | MC | 20 | or-br | b | phyllite and grey quartzite float |
| MRS003 | Soil | 8/28/2015 | 9 | 432137 | 6659415 | 1442.9232 | MC | 20 | or-br | b | phyllite and grey quartzite float |
| MRS004 | Soil | 8/28/2015 | 9 | 432221 | 6659371 | 1428.2928 | MC | 20 | or-br | b | phyllite and grey quartzite float |
| MRS005 | Soil | 8/28/2015 | 9 | 432315 | 6659314 | 1412.4432 | MC | 20 | or-br | b | phyllite and grey quartzite float |
| MRS006 | Soil | 8/28/2015 | 9 | 432396 | 6659261 | 1366.1136 | MC | 30 | or-br | b | phyllite and grey quartzite float |
| MRS007 | Soil | 8/28/2015 | 9 | 432488 | 6659204 | 1347.8256 | MC | 30 | or-br | b | phyllite and grey quartzite float |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MRS008 | Soil | 8/28/2015 | 9 | 432581 | 6659153 | 1339.596 | MC | 30 | or-br | b | phyllite and grey quartzite float |
| MRS009 | Soil | 8/28/2015 | 9 | 432660 | 6659104 | 1332.8904 | MC | 30 | or-br | b | phyllite and grey quartzite float, till? |
| MRS010 | Soil | 8/28/2015 | 9 | 432743 | 6659058 | 1332.2808 | MC | 30 | or-br | b | phyllite and grey quartzite float |
| MRS011 | Soil | 8/28/2015 | 9 | 432822 | 6659007 | 1323.7464 | MC | 30 | or-br | b | phyllite and grey quartzite float |
| MRS012 | Soil | 8/28/2015 | 9 | 432866 | 6658972 | 1318.26 | MC | 30 | yellow-br | c | phyllite and grey quartzite float |
| MRS013 | Soil | 8/28/2015 | 9 | 432921 | 6658963 | 1324.0512 | MC | 30 | yellow-br | b | phyllite and grey quartzite float; limestone, till? |
| MRS014 | Soil | 8/28/2015 | 9 | 432970 | 6658931 | 1322.832 | MC | 30 | tan | b | phyllite and grey quartzite float |
| MRS015 | Soil | 8/28/2015 | 9 | 433001 | 6658906 | 1313.0784 | MC | 30 | tan | b-c | 100 m from historic high Zn-Ag in soil site; outcrop of black staine limestone |
| MRS016 | Soil | 8/28/2015 | 9 | 433051 | 6658900 | 1307.592 | MC | 20 | tan | b | 50 m from historic high Zn-Ag in soil site; outcrop of black staine limestone |
| MRS017 | Soil | 8/28/2015 | 9 | 433084 | 6658846 | 1295.4 | MC | 20 | orange | b | |
| MRS018 | Soil | 8/28/2015 | 9 | 433138 | 6658775 | 1270.1016 | MC | 20 | orange | b | |
| MRS019 | Soil | 8/28/2015 | 9 | 433197 | 6658680 | 1248.7656 | MC | 20 | orange | b | |
| MRS020 | Soil | 8/28/2015 | 9 | 433270 | 6658583 | 1222.5528 | MC | 20 | orange | b | gneiss and schist boulders; alluval or morraine? |
| MRS021 | Soil | 8/28/2015 | 9 | 433334 | 6658503 | 1205.1792 | MC | 20 | orange | b | |
| MRS022 | Soil | 8/28/2015 | 9 | 433391 | 6658423 | 1193.292 | MC | 20 | orange | b | dark, grey argillite |
| MRS023 | Soil | 8/28/2015 | 9 | 433395 | 6658350 | 1190.8536 | MC | 20 | orange | b | |
| MRS024 | Soil | 8/28/2015 | 9 | 433511 | 6658286 | 1187.196 | MC | 20 | orange | b | |

# Appendix 3:

## Certificate of Analysis

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

**Client:** **Cazador Resources**
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 CANADA

Submitted By: Adam Travis
Receiving Lab: Canada-Smithers
Received: November 16, 2015
Report Date: December 08, 2015
Page: 1 of 2

# CERTIFICATE OF ANALYSIS SMI15000114.1

## CLIENT JOB INFORMATION

Project: RANCHERIA
Shipment ID: Rancheria Project
P.O. Number
Number of Samples: 8

## SAMPLE DISPOSAL

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

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

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| PRP70-250 | 8 | Crush, split and pulverize 250 g rock to 200 mesh | | | SMI |
| FA430 | 8 | Lead Collection Fire - Assay Fusion - AAS Finish | 30 | Completed | VAN |
| AQ251_EXT | 8 | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Cazador Resources
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
CANADA

CC: Mike Cathro
Don Coolidge

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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

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**Client:** **Cazador Resources**
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 CANADA

Project: RANCHERIA
Report Date: December 08, 2015



# CERTIFICATE OF ANALYSIS SMI15000114.1

| Method | | WGHT | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V |
| Unit | | kg | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.01 | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 |
| DRR001 | Rock | 1.18 | 0.007 | 0.06 | 6.48 | 1642.77 | 41.9 | 1211 | 3.0 | 1.9 | 1581 | 0.87 | 3.6 | 0.5 | 1.0 | 0.8 | 1109.9 | 0.35 | 3.98 | 0.04 | 3 |
| ARR001 | Rock | 0.98 | 0.115 | 0.68 | 120.25 | >10000 | 2306.8 | 28189 | 8.5 | 2.6 | >10000 | 2.94 | 114.4 | 3.8 | 105.0 | 1.7 | 740.5 | 6.95 | 34.92 | 0.05 | 10 |
| ARR002 | Rock | 1.31 | 0.017 | 1.46 | 82.39 | 3998.43 | >10000 | 9004 | 41.8 | 11.7 | >10000 | 30.78 | 40.3 | 4.0 | 9.6 | 3.5 | 399.6 | 121.77 | 3.04 | 0.24 | 6 |
| MRR001 | Rock | 1.58 | 0.267 | 1.97 | 47.67 | 859.98 | >10000 | 16064 | 34.3 | 14.3 | >10000 | 14.03 | 1813.6 | 1.3 | 238.8 | 4.0 | 123.5 | 243.87 | 38.83 | 0.08 | 16 |
| MRR002 | Rock | 1.03 | 0.008 | 1.51 | 81.82 | 1896.80 | >10000 | 16182 | 36.0 | 12.1 | >10000 | 26.43 | 85.5 | 3.0 | 3.7 | 4.1 | 449.0 | 119.74 | 5.78 | 0.20 | 8 |
| MRR003 | Rock | 1.11 | 0.022 | 0.41 | 4.84 | 51.94 | 699.8 | 2313 | 21.9 | 68.1 | 123 | 9.28 | 872.9 | 0.7 | 21.6 | 4.5 | 3.8 | 5.18 | 3.24 | 6.08 | 2 |
| MMR001 | Rock | 0.79 | 1.268 | 1.14 | 1890.32 | >10000 | 8996.7 | >100000 | 13.8 | 4.6 | 126 | 16.32 | >10000 | 21.9 | 1401.1 | 6.2 | 109.0 | 49.17 | 335.92 | 445.42 | 13 |
| MMR002 | Rock | 1.23 | <0.005 | 0.19 | 9.72 | 2122.54 | 6540.4 | 1804 | 9.6 | 3.2 | 808 | 0.73 | 42.1 | 0.4 | 4.4 | 2.1 | 811.7 | 42.80 | 2.16 | 0.42 | 5 |

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Client: **Cazador Resources**
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 CANADA

Project: RANCHERIA
Report Date: December 08, 2015



# CERTIFICATE OF ANALYSIS SMI15000114.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs |
| | Unit | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm |
| | MDL | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 |
| DRR001 | Rock | 30.14 | 0.005 | 2.4 | 1.7 | 0.33 | 8.2 | <0.001 | 2 | 0.06 | 0.003 | 0.04 | <0.1 | 2.4 | 0.03 | 0.08 | <5 | 0.2 | 0.08 | 0.2 | 0.22 |
| ARR001 | Rock | 28.29 | 0.010 | 6.0 | 3.4 | 0.11 | 1514.8 | <0.001 | 1 | 0.09 | <0.001 | 0.03 | 36.9 | 1.6 | 0.87 | 0.07 | 184 | 0.3 | 1.95 | 0.9 | 0.58 |
| ARR002 | Rock | 0.21 | 0.041 | 1.4 | 2.1 | 0.01 | 54.1 | <0.001 | 4 | 0.15 | 0.008 | 0.12 | <0.1 | 4.0 | 0.13 | 0.03 | 80 | 0.7 | 0.03 | 2.1 | 6.73 |
| MRR001 | Rock | 0.24 | 0.060 | 7.4 | 17.0 | 0.02 | 378.2 | 0.001 | 6 | 0.23 | 0.005 | 0.15 | 2.6 | 6.9 | 0.21 | 0.03 | 44 | 1.2 | 0.04 | 1.4 | 3.50 |
| MRR002 | Rock | 0.39 | 0.043 | 1.4 | 3.0 | 0.02 | 1376.9 | <0.001 | 6 | 0.17 | 0.005 | 0.12 | 0.4 | 4.1 | 0.23 | <0.02 | 85 | 2.6 | <0.02 | 2.3 | 3.61 |
| MRR003 | Rock | 0.07 | 0.112 | 18.5 | 5.7 | <0.01 | 27.8 | <0.001 | <1 | 0.15 | 0.002 | 0.06 | <0.1 | 1.2 | 0.05 | <0.02 | <5 | 0.4 | 0.19 | 0.5 | 0.07 |
| MMR001 | Rock | 0.47 | 3.472 | 10.3 | 12.6 | <0.01 | 131.3 | 0.011 | 3 | 1.97 | 0.003 | 0.09 | 7.9 | 5.0 | 0.23 | 1.58 | 1096 | 1.4 | 1.62 | 15.5 | 0.51 |
| MMR002 | Rock | 20.86 | 0.116 | 8.5 | 3.7 | 0.61 | >10000 | <0.001 | <1 | 1.31 | 0.003 | 0.02 | <0.1 | 2.8 | 0.57 | <0.02 | 1394 | 0.2 | 0.11 | 3.1 | 0.07 |

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

Project: RANCHERIA
Report Date: December 08, 2015



# CERTIFICATE OF ANALYSIS SMI15000114.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| DRR001 | Rock | <0.1 | 0.03 | <0.02 | 2.4 | <0.1 | <0.05 | 2.1 | 14.67 | 7.0 | <0.02 | <1 | <0.1 | 0.3 | <10 | <2 |
| ARR001 | Rock | <0.1 | 0.04 | 0.02 | 2.8 | 6.8 | <0.05 | 2.6 | 13.06 | 10.2 | 0.05 | <1 | 0.1 | 0.4 | <10 | 2 |
| ARR002 | Rock | 0.2 | 0.04 | 0.03 | 9.5 | 85.0 | <0.05 | 3.1 | 16.32 | 5.3 | 0.75 | <1 | 0.2 | 0.6 | <10 | <2 |
| MRR001 | Rock | 0.1 | 0.08 | 0.04 | 13.5 | 27.4 | <0.05 | 6.1 | 20.92 | 15.7 | 0.82 | <1 | 0.4 | 1.2 | * | <2 |
| MRR002 | Rock | 0.2 | 0.07 | 0.03 | 9.2 | 72.1 | <0.05 | 3.6 | 16.22 | 4.8 | 1.67 | <1 | 0.3 | 0.9 | <10 | <2 |
| MRR003 | Rock | <0.1 | <0.02 | 0.04 | 1.9 | 0.3 | <0.05 | 0.6 | 3.34 | 44.9 | <0.02 | <1 | <0.1 | 0.2 | <10 | <2 |
| MMR001 | Rock | <0.1 | <0.02 | 0.05 | 4.4 | >100 | <0.05 | 1.1 | 10.16 | 29.4 | 360.36 | <1 | 1.4 | 2.9 | <10 | <2 |
| MMR002 | Rock | <0.1 | 0.04 | <0.02 | 1.1 | 3.0 | <0.05 | 1.7 | 10.64 | 17.1 | 0.37 | 2 | 0.2 | 0.5 | <10 | <2 |

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Project: RANCHERIA
Report Date: December 08, 2015



# QUALITY CONTROL REPORT SMI15000114.1

| | Method | WGHT | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V |
| | Unit | kg | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.01 | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| MRR003 | Rock | 1.11 | 0.022 | 0.41 | 4.84 | 51.94 | 699.8 | 2313 | 21.9 | 68.1 | 123 | 9.28 | 872.9 | 0.7 | 21.6 | 4.5 | 3.8 | 5.18 | 3.24 | 6.08 | 2 |
| REP MRR003 | QC | | | 0.47 | 4.61 | 54.40 | 713.1 | 2487 | 21.7 | 70.9 | 131 | 9.41 | 876.7 | 0.8 | 21.7 | 4.8 | 3.9 | 5.25 | 3.30 | 6.46 | 2 |
| MMR002 | Rock | 1.23 | <0.005 | 0.19 | 9.72 | 2122.54 | 6540.4 | 1804 | 9.6 | 3.2 | 808 | 0.73 | 42.1 | 0.4 | 4.4 | 2.1 | 811.7 | 42.80 | 2.16 | 0.42 | 5 |
| REP MMR002 | QC | | | 0.20 | 9.82 | 2125.82 | 6553.9 | 1817 | 10.2 | 3.4 | 805 | 0.75 | 39.4 | 0.4 | 3.5 | 2.2 | 818.1 | 44.23 | 2.20 | 0.37 | 5 |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| MRR001 | Rock | 1.58 | 0.267 | 1.97 | 47.67 | 859.98 | >10000 | 16064 | 34.3 | 14.3 | >10000 | 14.03 | 1813.6 | 1.3 | 238.8 | 4.0 | 123.5 | 243.87 | 38.83 | 0.08 | 16 |
| DUP MRR001 | QC | | 0.288 | 1.97 | 47.94 | 879.34 | >10000 | 15881 | 35.0 | 14.6 | >10000 | 13.66 | 1859.5 | 1.3 | 277.6 | 4.0 | 119.6 | 252.95 | 40.45 | 0.09 | 16 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | | | 14.77 | 156.51 | 152.44 | 390.3 | 1937 | 75.5 | 12.2 | 912 | 2.75 | 45.7 | 2.6 | 79.9 | 7.5 | 64.6 | 2.63 | 9.41 | 12.21 | 44 |
| STD DS10 | Standard | | | 13.09 | 159.04 | 145.52 | 361.0 | 2036 | 75.0 | 12.8 | 916 | 2.74 | 44.1 | 2.5 | 98.3 | 7.0 | 63.2 | 2.59 | 8.61 | 11.67 | 41 |
| STD OXC129 | Standard | | | 1.40 | 28.55 | 6.78 | 43.7 | 11 | 83.3 | 20.9 | 436 | 3.02 | 0.5 | 0.7 | 199.6 | 1.9 | 181.7 | 0.02 | 0.05 | <0.02 | 54 |
| STD OXC129 | Standard | | | 1.26 | 27.96 | 6.58 | 45.3 | 18 | 80.3 | 21.2 | 412 | 3.04 | 0.6 | 0.7 | 190.4 | 1.8 | 183.6 | 0.04 | 0.04 | <0.02 | 49 |
| STD OXD108 | Standard | | 0.427 | | | | | | | | | | | | | | | | | | |
| STD OXI121 | Standard | | 1.840 | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | 7.554 | | | | | | | | | | | | | | | | | | |
| STD OXD108 Expected | | | 0.414 | | | | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | | 7.679 | | | | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | | 1.834 | | | | | | | | | | | | | | | | | | |
| STD DS10 Expected | | | | 15.1 | 154.61 | 150.55 | 370 | 2020 | 74.6 | 12.9 | 875 | 2.7188 | 46.2 | 2.59 | 91.9 | 7.5 | 67.1 | 2.62 | 9 | 11.65 | 43 |
| STD OXC129 Expected | | | | 1.3 | 28 | 6.3 | 42.9 | 28 | 79.5 | 20.3 | 421 | 3.065 | 0.6 | 0.72 | 195 | 1.9 | | 0.03 | 0.04 | | 51 |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | 0.01 | <0.01 | 0.04 | 0.3 | <2 | <0.1 | <0.1 | 2 | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2 |
| BLK | Blank | | | <0.01 | <0.01 | 0.08 | 0.2 | 2 | 0.2 | <0.1 | 2 | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | 0.02 | <2 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| ROCK-SMI | Prep Blank | | <0.005 | 0.79 | 4.22 | 1.05 | 30.7 | 8 | 1.7 | 3.9 | 464 | 1.84 | 1.2 | 0.4 | 0.9 | 2.1 | 26.6 | 0.02 | 0.04 | <0.02 | 25 |

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West Kelowna BC V4T 2N6 CANADA

Project: RANCHERIA
Report Date: December 08, 2015



# QUALITY CONTROL REPORT SMI15000114.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ca | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs |
| | Unit | % | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm |
| | MDL | 0.01 | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| MRR003 | Rock | 0.07 | 0.112 | 18.5 | 5.7 | <0.01 | 27.8 | <0.001 | <1 | 0.15 | 0.002 | 0.06 | <0.1 | 1.2 | 0.05 | <0.02 | <5 | 0.4 | 0.19 | 0.5 | 0.07 |
| REP MRR003 | QC | 0.07 | 0.120 | 19.1 | 5.7 | <0.01 | 28.3 | <0.001 | 2 | 0.15 | 0.002 | 0.06 | <0.1 | 1.6 | 0.04 | <0.02 | <5 | 0.3 | 0.20 | 0.5 | 0.07 |
| MMR002 | Rock | 20.86 | 0.116 | 8.5 | 3.7 | 0.61 | >10000 | <0.001 | <1 | 1.31 | 0.003 | 0.02 | <0.1 | 2.8 | 0.57 | <0.02 | 1394 | 0.2 | 0.11 | 3.1 | 0.07 |
| REP MMR002 | QC | 21.32 | 0.111 | 8.8 | 3.7 | 0.62 | >10000 | <0.001 | <1 | 1.30 | 0.003 | 0.02 | <0.1 | 3.1 | 0.57 | <0.02 | 1401 | <0.1 | 0.06 | 3.3 | 0.07 |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| MRR001 | Rock | 0.24 | 0.060 | 7.4 | 17.0 | 0.02 | 378.2 | 0.001 | 6 | 0.23 | 0.005 | 0.15 | 2.6 | 6.9 | 0.21 | 0.03 | 44 | 1.2 | 0.04 | 1.4 | 3.50 |
| DUP MRR001 | QC | 0.22 | 0.062 | 8.0 | 18.1 | 0.02 | 379.1 | 0.001 | 5 | 0.25 | 0.005 | 0.16 | 2.6 | 7.1 | 0.21 | 0.03 | 36 | 1.1 | 0.03 | 1.7 | 3.69 |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | 1.07 | 0.076 | 17.8 | 56.4 | 0.78 | 363.7 | 0.076 | 7 | 1.06 | 0.071 | 0.33 | 3.2 | 3.0 | 5.25 | 0.28 | 326 | 2.4 | 4.95 | 4.4 | 2.64 |
| STD DS10 | Standard | 1.08 | 0.080 | 15.5 | 53.3 | 0.78 | 327.5 | 0.070 | 7 | 1.02 | 0.066 | 0.33 | 3.3 | 2.9 | 5.03 | 0.28 | 307 | 2.3 | 4.63 | 4.2 | 2.54 |
| STD OXC129 | Standard | 0.62 | 0.102 | 12.4 | 52.1 | 1.56 | 50.9 | 0.387 | 1 | 1.53 | 0.592 | 0.36 | <0.1 | 0.9 | 0.04 | <0.02 | <5 | <0.1 | <0.02 | 5.4 | 0.16 |
| STD OXC129 | Standard | 0.61 | 0.103 | 11.9 | 50.5 | 1.54 | 49.1 | 0.368 | <1 | 1.50 | 0.601 | 0.38 | <0.1 | 0.9 | 0.04 | <0.02 | 5 | <0.1 | <0.02 | 5.4 | 0.16 |
| STD OXD108 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXI121 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXD108 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 Expected | | 1.0625 | 0.0765 | 17.5 | 54.6 | 0.775 | 359 | 0.0817 | | 1.0259 | 0.067 | 0.338 | 3.32 | 3 | 5.1 | 0.29 | 300 | 2.3 | 5.01 | 4.5 | 2.63 |
| STD OXC129 Expected | | 0.665 | 0.102 | 13 | 52 | 1.545 | 50 | 0.4 | 1 | 1.58 | 0.6 | 0.37 | 0.08 | 1.1 | 0.03 | | | | | 5.6 | 0.16 |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 |
| BLK | Blank | <0.01 | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| ROCK-SMI | Prep Blank | 0.63 | 0.040 | 5.9 | 4.0 | 0.41 | 71.9 | 0.072 | 2 | 1.01 | 0.123 | 0.11 | <0.1 | 3.4 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | 3.9 | 0.12 |

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West Kelowna BC V4T 2N6 CANADA

Project: RANCHERIA
Report Date: December 08, 2015



# QUALITY CONTROL REPORT SMI15000114.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ge | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| | MDL | 0.1 | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | |
| MRR003 | Rock | <0.1 | <0.02 | 0.04 | 1.9 | 0.3 | <0.05 | 0.6 | 3.34 | 44.9 | <0.02 | <1 | <0.1 | 0.2 | <10 | <2 |
| REP MRR003 | QC | <0.1 | <0.02 | 0.04 | 2.0 | 0.3 | <0.05 | 0.5 | 3.57 | 45.4 | <0.02 | <1 | <0.1 | 0.3 | <10 | <2 |
| MMR002 | Rock | <0.1 | 0.04 | <0.02 | 1.1 | 3.0 | <0.05 | 1.7 | 10.64 | 17.1 | 0.37 | 2 | 0.2 | 0.5 | <10 | <2 |
| REP MMR002 | QC | <0.1 | 0.04 | <0.02 | 1.1 | 2.7 | <0.05 | 1.7 | 10.69 | 18.0 | 0.35 | 2 | 0.2 | 0.4 | <10 | <2 |
| Core Reject Duplicates | | | | | | | | | | | | | | | | |
| MRR001 | Rock | 0.1 | 0.08 | 0.04 | 13.5 | 27.4 | <0.05 | 6.1 | 20.92 | 15.7 | 0.82 | <1 | 0.4 | 1.2 | * | <2 |
| DUP MRR001 | QC | <0.1 | 0.10 | 0.02 | 14.7 | 29.0 | <0.05 | 6.4 | 21.58 | 16.7 | 0.81 | <1 | 0.5 | 1.0 | * | <2 |
| Reference Materials | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | <0.1 | 0.05 | 1.61 | 30.2 | 1.6 | <0.05 | 2.6 | 8.15 | 36.7 | 0.23 | 49 | 0.8 | 20.3 | 115 | 187 |
| STD DS10 | Standard | <0.1 | 0.05 | 1.43 | 28.4 | 1.5 | <0.05 | 2.5 | 7.63 | 33.4 | 0.22 | 48 | 0.5 | 20.6 | 106 | 183 |
| STD OXC129 | Standard | <0.1 | 0.29 | 1.76 | 16.3 | 0.8 | <0.05 | 21.7 | 4.68 | 23.3 | <0.02 | <1 | 0.7 | 2.4 | <10 | <2 |
| STD OXC129 | Standard | <0.1 | 0.29 | 1.51 | 16.3 | 0.7 | <0.05 | 22.1 | 4.64 | 23.1 | <0.02 | <1 | 1.0 | 2.3 | <10 | <2 |
| STD OXD108 | Standard | | | | | | | | | | | | | | | |
| STD OXI121 | Standard | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | | |
| STD OXD108 Expected | | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | | | | | | | | | | | | | | | |
| STD DS10 Expected | | 0.08 | 0.06 | 1.62 | 27.7 | 1.6 | | 2.7 | 7.77 | 37 | 0.23 | 50 | 0.63 | 19.4 | 110 | 191 |
| STD OXC129 Expected | | | 0.24 | 1.4 | | 0.7 | | 21 | 4.7 | 23.7 | | | 0.8 | 2.22 | | |
| BLK | Blank | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |
| BLK | Blank | <0.1 | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |
| Prep Wash | | | | | | | | | | | | | | | | |
| ROCK-SMI | Prep Blank | <0.1 | 0.13 | 0.26 | 2.7 | 0.4 | <0.05 | 3.8 | 7.98 | 12.3 | <0.02 | <1 | 0.2 | 2.6 | <10 | <2 |

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**Client:** **Cazador Resources**
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6 CANADA

Submitted By: Adam Travis
Receiving Lab: Canada-Smithers
Received: November 16, 2015
Report Date: December 02, 2015
Page: 1 of 6

# CERTIFICATE OF ANALYSIS SMI15000115.1

## CLIENT JOB INFORMATION

| | |
|---|---|
| Project: | RANCHERIA |
| Shipment ID: | Rancheria Project |
| P.O. Number | |
| Number of Samples: | 127 |

## SAMPLE DISPOSAL

| | |
|---|---|
| DISP-PLP | Dispose of Pulp After 90 days |
| DISP-RJT-SOIL | Immediate Disposal of Soil Reject |

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

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|---|---|---|---|---|---|
| Dry at 60C | 127 | Dry at 60C | | | SMI |
| SS80 | 127 | Dry at 60C sieve 100g to -80 mesh | | | SMI |
| FA430 | 127 | Lead Collection Fire - Assay Fusion - AAS Finish | 30 | Completed | VAN |
| AQ251_EXT | 127 | 1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis | 15 | Completed | VAN |

## ADDITIONAL COMMENTS

Invoice To: Cazador Resources
110 - 2300 Carrington Road
West Kelowna BC V4T 2N6
CANADA

CC: Mike Cathro
Don Coolidge

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Geochemical Laboratory Manager

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

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West Kelowna BC V4T 2N6 CANADA

Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| ARS001 | Soil | <0.005 | 0.87 | 9.43 | 13.53 | 56.6 | 235 | 8.6 | 2.0 | 82 | 0.99 | 2.1 | 0.6 | 2.5 | 0.1 | 9.3 | 0.25 | 0.61 | 0.21 | 30 | 0.03 |
| ARS002 | Soil | <0.005 | 0.93 | 6.12 | 10.09 | 53.5 | 201 | 8.1 | 2.0 | 93 | 0.99 | 1.9 | 0.4 | 1.9 | 0.3 | 7.9 | 0.25 | 0.36 | 0.18 | 28 | 0.04 |
| ARS003 | Soil | <0.005 | 1.25 | 6.84 | 14.39 | 76.7 | 118 | 11.4 | 3.7 | 163 | 2.14 | 4.6 | 0.7 | 0.8 | 4.7 | 10.8 | 0.31 | 0.70 | 0.25 | 40 | 0.13 |
| ARS004 | Soil | 0.005 | 1.84 | 14.61 | 16.41 | 115.1 | 109 | 15.5 | 3.8 | 84 | 1.43 | 3.9 | 0.7 | 2.0 | 0.8 | 15.7 | 0.70 | 1.17 | 0.18 | 21 | 0.05 |
| ARS005 | Soil | 0.012 | 2.68 | 24.80 | 28.08 | 206.8 | 275 | 32.0 | 11.2 | 259 | 1.96 | 7.0 | 1.0 | 1.2 | 2.6 | 24.9 | 1.27 | 1.93 | 0.21 | 23 | 0.36 |
| ARS006 | Soil | 0.006 | 0.99 | 23.18 | 13.27 | 82.8 | 465 | 20.5 | 6.4 | 402 | 1.38 | 3.3 | 4.1 | 0.9 | 1.0 | 49.0 | 1.08 | 0.86 | 0.18 | 21 | 1.15 |
| ARS007 | Soil | 0.007 | 1.70 | 7.45 | 12.97 | 48.8 | 106 | 10.5 | 1.5 | 33 | 0.61 | 1.6 | 0.4 | 0.7 | 0.2 | 12.0 | 0.65 | 0.35 | 0.18 | 17 | 0.13 |
| ARS008 | Soil | 0.009 | 1.91 | 7.32 | 14.57 | 79.3 | 104 | 14.0 | 3.1 | 87 | 1.41 | 2.8 | 0.4 | 1.9 | 1.2 | 12.1 | 0.34 | 0.57 | 0.16 | 34 | 0.24 |
| ARS009 | Soil | <0.005 | 1.40 | 7.52 | 20.19 | 301.9 | 56 | 16.4 | 5.2 | 242 | 1.53 | 2.3 | 0.6 | 0.3 | 3.7 | 10.9 | 1.50 | 0.76 | 0.19 | 31 | 0.19 |
| ARS010 | Soil | <0.005 | 1.76 | 9.65 | 18.00 | 114.1 | 71 | 18.8 | 5.1 | 129 | 1.42 | 4.7 | 0.5 | <0.2 | 2.5 | 9.4 | 0.34 | 1.09 | 0.15 | 24 | 0.11 |
| ARS011 | Soil | 0.007 | 1.44 | 11.70 | 24.43 | 125.4 | 154 | 14.2 | 5.2 | 248 | 1.65 | 3.2 | 0.7 | 0.5 | 0.6 | 9.1 | 0.93 | 0.53 | 0.24 | 37 | 0.10 |
| ARS012 | Soil | <0.005 | 1.42 | 7.50 | 42.75 | 433.1 | 119 | 16.6 | 5.0 | 363 | 1.81 | 4.7 | 0.8 | 0.8 | 0.8 | 12.3 | 2.11 | 0.90 | 0.20 | 38 | 0.34 |
| ARS013 | Soil | <0.005 | 1.35 | 7.84 | 115.90 | 163.2 | 222 | 21.9 | 5.4 | 206 | 1.65 | 4.4 | 0.7 | 2.6 | 4.8 | 7.5 | 0.27 | 1.11 | 0.14 | 35 | 0.09 |
| ARS014 | Soil | <0.005 | 1.23 | 7.10 | 158.53 | 392.7 | 1079 | 15.6 | 6.3 | 951 | 2.02 | 3.8 | 1.3 | 0.3 | 3.8 | 10.6 | 1.03 | 1.54 | 0.27 | 40 | 0.25 |
| ARS015 | Soil | <0.005 | 2.17 | 12.18 | 232.94 | 247.8 | 425 | 19.9 | 4.4 | 215 | 1.76 | 11.3 | 0.6 | 1.7 | 5.5 | 7.7 | 0.37 | 4.45 | 0.15 | 37 | 0.08 |
| ARS016 | Soil | <0.005 | 1.55 | 6.21 | 56.53 | 223.4 | 104 | 15.4 | 4.3 | 367 | 1.44 | 3.2 | 0.5 | 1.0 | 4.2 | 7.0 | 0.41 | 0.87 | 0.13 | 33 | 0.17 |
| ARS017 | Soil | <0.005 | 1.24 | 7.50 | 419.97 | 750.4 | 2504 | 20.6 | 5.9 | 800 | 2.14 | 4.9 | 1.5 | 3.2 | 4.4 | 9.4 | 2.59 | 1.61 | 0.23 | 38 | 0.29 |
| ARS018 | Soil | <0.005 | 2.26 | 6.14 | 59.84 | 233.6 | 306 | 13.2 | 5.0 | 243 | 1.72 | 2.9 | 0.5 | 1.9 | 3.5 | 7.6 | 0.75 | 0.71 | 0.18 | 41 | 0.09 |
| ARS019 | Soil | <0.005 | 2.39 | 9.97 | 302.51 | 521.0 | 1283 | 39.1 | 8.7 | 575 | 2.52 | 7.5 | 1.5 | 1.7 | 6.9 | 12.0 | 1.75 | 1.87 | 0.22 | 54 | 0.35 |
| ARS020 | Soil | 0.009 | 3.57 | 16.99 | 1035.74 | 368.3 | 2933 | 39.6 | 8.0 | 861 | 2.29 | 12.9 | 1.3 | 2.4 | 8.3 | 15.5 | 1.09 | 3.92 | 0.22 | 46 | 1.18 |
| ARS021 | Soil | <0.005 | 2.71 | 7.19 | 1001.41 | 465.3 | 3507 | 15.8 | 5.6 | 1403 | 2.19 | 5.7 | 1.1 | 0.9 | 4.3 | 8.1 | 2.40 | 2.35 | 0.21 | 43 | 0.23 |
| ARS022 | Soil | <0.005 | 3.03 | 8.73 | 664.08 | 548.4 | 982 | 23.1 | 7.6 | 1396 | 2.48 | 6.8 | 0.8 | 0.5 | 4.8 | 9.0 | 2.13 | 2.50 | 0.21 | 47 | 0.22 |
| ARS023 | Soil | <0.005 | 2.00 | 8.67 | 467.52 | 355.7 | 476 | 31.6 | 8.5 | 375 | 2.86 | 9.0 | 0.7 | <0.2 | 5.3 | 9.1 | 1.07 | 2.42 | 0.23 | 58 | 0.15 |
| ARS024 | Soil | <0.005 | 2.31 | 7.53 | 32.02 | 104.6 | 30 | 19.3 | 4.4 | 109 | 1.53 | 5.7 | 0.5 | 2.1 | 5.2 | 5.9 | 0.38 | 1.40 | 0.16 | 42 | 0.07 |
| ARS025 | Soil | <0.005 | 6.34 | 12.49 | 293.14 | 465.8 | 1081 | 40.5 | 8.1 | 917 | 3.07 | 11.7 | 0.8 | 1.6 | 5.1 | 8.5 | 2.92 | 3.92 | 0.25 | 67 | 0.38 |
| ARS026 | Soil | <0.005 | 3.79 | 12.99 | 174.42 | 233.7 | 484 | 28.9 | 7.7 | 886 | 2.39 | 9.0 | 1.5 | 1.4 | 5.1 | 11.5 | 1.70 | 2.70 | 0.23 | 57 | 0.29 |
| ARS027 | Soil | <0.005 | 2.41 | 6.97 | 52.13 | 214.1 | 69 | 20.5 | 5.5 | 501 | 2.25 | 5.1 | 0.5 | 1.3 | 3.8 | 7.0 | 0.48 | 1.15 | 0.23 | 50 | 0.06 |
| AMS001 | Soil | <0.005 | 0.45 | 15.33 | 32.06 | 82.7 | 380 | 10.7 | 5.1 | 344 | 2.91 | 9.6 | 0.9 | <0.2 | 0.7 | 4.5 | 0.57 | 0.32 | 0.38 | 22 | 0.02 |
| AMS002 | Soil | <0.005 | 0.41 | 19.95 | 38.19 | 177.8 | 172 | 36.5 | 12.9 | 674 | 3.41 | 22.2 | 0.8 | 1.2 | 11.0 | 31.2 | 1.17 | 0.68 | 0.40 | 11 | 0.93 |
| AMS003 | Soil | <0.005 | 0.28 | 16.83 | 42.88 | 236.6 | 172 | 26.3 | 12.0 | 770 | 2.99 | 22.2 | 0.6 | 0.8 | 4.1 | 39.1 | 1.25 | 0.71 | 0.32 | 8 | 1.69 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| ARS001 | Soil | 0.061 | 16.8 | 11.9 | 0.08 | 132.5 | 0.005 | 1 | 0.98 | 0.003 | 0.06 | 0.1 | 0.2 | 0.18 | 0.03 | 22 | <0.1 | <0.02 | 3.5 | 1.05 | <0.1 |
| ARS002 | Soil | 0.038 | 13.1 | 12.6 | 0.12 | 71.1 | 0.022 | <1 | 0.70 | 0.007 | 0.05 | 0.1 | 0.6 | 0.10 | <0.02 | 15 | 0.3 | 0.02 | 3.9 | 0.98 | <0.1 |
| ARS003 | Soil | 0.118 | 15.7 | 18.1 | 0.25 | 86.4 | 0.054 | <1 | 0.95 | 0.004 | 0.06 | 0.4 | 1.4 | 0.11 | <0.02 | 13 | 0.3 | 0.02 | 5.2 | 1.07 | <0.1 |
| ARS004 | Soil | 0.057 | 23.7 | 10.3 | 0.10 | 139.3 | 0.019 | <1 | 0.52 | 0.005 | 0.11 | 0.2 | 0.7 | 0.16 | 0.04 | 5 | 0.5 | 0.03 | 2.9 | 0.88 | <0.1 |
| ARS005 | Soil | 0.080 | 22.1 | 16.4 | 0.24 | 336.2 | 0.010 | 2 | 0.84 | 0.006 | 0.18 | 0.2 | 1.7 | 0.26 | 0.06 | 71 | 0.7 | 0.05 | 2.0 | 1.11 | <0.1 |
| ARS006 | Soil | 0.115 | 14.3 | 15.7 | 0.27 | 638.9 | 0.017 | 1 | 0.88 | 0.006 | 0.06 | 0.2 | 1.1 | 0.11 | 0.08 | 98 | 1.2 | <0.02 | 2.7 | 0.69 | <0.1 |
| ARS007 | Soil | 0.043 | 18.2 | 14.6 | 0.05 | 283.4 | 0.006 | 2 | 0.60 | 0.003 | 0.09 | 0.1 | 0.3 | 0.13 | 0.04 | 15 | <0.1 | <0.02 | 2.8 | 0.99 | <0.1 |
| ARS008 | Soil | 0.028 | 20.2 | 15.5 | 0.16 | 359.1 | 0.018 | 2 | 0.87 | 0.003 | 0.08 | 0.2 | 1.1 | 0.10 | <0.02 | 20 | 0.1 | 0.02 | 3.7 | 0.79 | <0.1 |
| ARS009 | Soil | 0.023 | 19.8 | 17.5 | 0.30 | 319.2 | 0.030 | <1 | 1.00 | 0.005 | 0.09 | 0.2 | 1.7 | 0.16 | <0.02 | 11 | <0.1 | <0.02 | 3.9 | 1.12 | <0.1 |
| ARS010 | Soil | 0.025 | 24.2 | 12.5 | 0.18 | 366.6 | 0.012 | 2 | 0.82 | 0.003 | 0.10 | 0.2 | 1.1 | 0.15 | <0.02 | 13 | 0.3 | 0.04 | 2.5 | 0.75 | <0.1 |
| ARS011 | Soil | 0.042 | 20.4 | 19.0 | 0.22 | 403.4 | 0.018 | 2 | 1.10 | 0.004 | 0.08 | 0.2 | 0.9 | 0.12 | <0.02 | 22 | <0.1 | <0.02 | 4.7 | 0.90 | <0.1 |
| ARS012 | Soil | 0.067 | 14.1 | 20.8 | 0.27 | 307.4 | 0.020 | 1 | 1.30 | 0.005 | 0.05 | 0.2 | 1.2 | 0.14 | 0.02 | 57 | 0.2 | <0.02 | 4.0 | 1.05 | <0.1 |
| ARS013 | Soil | 0.025 | 20.2 | 23.3 | 0.35 | 245.8 | 0.018 | 2 | 1.37 | 0.004 | 0.08 | 0.1 | 2.1 | 0.22 | <0.02 | 14 | <0.1 | <0.02 | 3.8 | 1.69 | <0.1 |
| ARS014 | Soil | 0.028 | 14.8 | 25.1 | 0.34 | 194.1 | 0.051 | 2 | 1.40 | 0.007 | 0.06 | 0.2 | 2.3 | 0.14 | <0.02 | 55 | 0.2 | <0.02 | 4.8 | 1.33 | <0.1 |
| ARS015 | Soil | 0.031 | 19.6 | 20.5 | 0.24 | 159.7 | 0.018 | 3 | 1.25 | 0.004 | 0.07 | 0.2 | 1.8 | 0.20 | <0.02 | 31 | 0.3 | 0.03 | 4.0 | 1.02 | <0.1 |
| ARS016 | Soil | 0.013 | 17.8 | 19.0 | 0.27 | 202.7 | 0.026 | 2 | 1.07 | 0.004 | 0.05 | 0.1 | 1.7 | 0.16 | <0.02 | 14 | 0.2 | <0.02 | 3.8 | 1.09 | <0.1 |
| ARS017 | Soil | 0.032 | 15.1 | 24.4 | 0.38 | 129.3 | 0.055 | 3 | 1.28 | 0.007 | 0.05 | 0.2 | 2.1 | 0.20 | <0.02 | 72 | <0.1 | <0.02 | 4.4 | 1.66 | <0.1 |
| ARS018 | Soil | 0.022 | 15.8 | 21.1 | 0.24 | 159.3 | 0.040 | 2 | 1.12 | 0.005 | 0.06 | 0.2 | 1.8 | 0.10 | <0.02 | 9 | <0.1 | <0.02 | 4.7 | 0.80 | <0.1 |
| ARS019 | Soil | 0.028 | 25.7 | 36.1 | 0.59 | 272.5 | 0.031 | 1 | 1.99 | 0.010 | 0.07 | 0.2 | 3.9 | 0.21 | <0.02 | 118 | 0.2 | 0.03 | 5.7 | 1.56 | <0.1 |
| ARS020 | Soil | 0.033 | 25.7 | 30.6 | 0.86 | 324.7 | 0.013 | 3 | 1.62 | 0.005 | 0.12 | 0.2 | 3.9 | 0.41 | <0.02 | 197 | 0.4 | <0.02 | 4.1 | 1.40 | <0.1 |
| ARS021 | Soil | 0.022 | 14.2 | 23.8 | 0.27 | 296.6 | 0.055 | 3 | 1.36 | 0.006 | 0.04 | 0.2 | 2.0 | 0.16 | <0.02 | 73 | <0.1 | <0.02 | 5.4 | 0.85 | <0.1 |
| ARS022 | Soil | 0.027 | 13.9 | 23.0 | 0.31 | 289.9 | 0.059 | 2 | 1.45 | 0.006 | 0.05 | 0.2 | 1.9 | 0.25 | <0.02 | 64 | 0.1 | 0.07 | 4.8 | 1.70 | <0.1 |
| ARS023 | Soil | 0.023 | 15.4 | 29.8 | 0.40 | 359.4 | 0.059 | 2 | 1.92 | 0.007 | 0.06 | 0.2 | 2.2 | 0.26 | <0.02 | 35 | 0.2 | 0.03 | 5.9 | 1.46 | <0.1 |
| ARS024 | Soil | 0.012 | 18.8 | 15.6 | 0.16 | 328.3 | 0.018 | 3 | 1.04 | 0.003 | 0.03 | 0.2 | 1.4 | 0.13 | <0.02 | 6 | <0.1 | <0.02 | 3.4 | 0.68 | <0.1 |
| ARS025 | Soil | 0.039 | 14.7 | 38.3 | 0.41 | 268.9 | 0.031 | 2 | 2.00 | 0.005 | 0.05 | 0.3 | 2.3 | 0.40 | <0.02 | 85 | 0.4 | 0.08 | 6.0 | 1.09 | <0.1 |
| ARS026 | Soil | 0.029 | 16.8 | 22.7 | 0.33 | 409.3 | 0.033 | 1 | 1.60 | 0.006 | 0.05 | 0.2 | 2.4 | 0.38 | <0.02 | 53 | 0.2 | 0.06 | 5.1 | 1.15 | <0.1 |
| ARS027 | Soil | 0.040 | 14.7 | 26.6 | 0.28 | 196.0 | 0.052 | 2 | 1.34 | 0.004 | 0.04 | 0.2 | 1.7 | 0.21 | <0.02 | 16 | 0.2 | <0.02 | 5.6 | 1.41 | <0.1 |
| AMS001 | Soil | 0.059 | 22.1 | 13.9 | 0.15 | 44.5 | 0.010 | <1 | 1.04 | 0.005 | 0.04 | 0.2 | 0.6 | 0.07 | 0.02 | 19 | 0.1 | <0.02 | 4.9 | 0.99 | <0.1 |
| AMS002 | Soil | 0.071 | 41.6 | 17.7 | 0.61 | 63.8 | 0.008 | <1 | 1.11 | 0.004 | 0.06 | 0.1 | 2.5 | 0.08 | <0.02 | 19 | 0.3 | <0.02 | 3.0 | 0.53 | <0.1 |
| AMS003 | Soil | 0.087 | 24.8 | 13.3 | 0.29 | 97.3 | 0.004 | 2 | 0.90 | 0.005 | 0.05 | 0.1 | 1.8 | 0.09 | 0.05 | 35 | 0.4 | 0.03 | 2.5 | 0.56 | <0.1 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| ARS001 | Soil | <0.02 | 0.20 | 11.9 | 0.5 | <0.05 | 0.2 | 1.80 | 31.3 | 0.03 | <1 | 0.1 | 3.6 | <10 | <2 |
| ARS002 | Soil | <0.02 | 0.40 | 10.3 | 0.5 | <0.05 | 0.3 | 1.56 | 24.9 | <0.02 | <1 | <0.1 | 3.9 | <10 | <2 |
| ARS003 | Soil | 0.03 | 1.34 | 10.1 | 0.6 | <0.05 | 1.4 | 3.86 | 30.4 | <0.02 | <1 | 0.1 | 10.4 | <10 | <2 |
| ARS004 | Soil | <0.02 | 0.23 | 12.4 | 0.5 | <0.05 | 0.3 | 3.62 | 44.5 | <0.02 | <1 | 0.1 | 4.0 | <10 | <2 |
| ARS005 | Soil | 0.03 | 0.32 | 12.7 | 0.3 | <0.05 | 0.9 | 8.14 | 43.4 | 0.02 | <1 | 0.5 | 9.0 | <10 | <2 |
| ARS006 | Soil | 0.03 | 1.06 | 8.1 | 0.4 | <0.05 | 1.3 | 8.06 | 27.4 | <0.02 | 1 | 0.5 | 9.4 | <10 | <2 |
| ARS007 | Soil | <0.02 | 0.18 | 15.8 | 0.6 | <0.05 | <0.1 | 1.93 | 34.8 | <0.02 | <1 | 0.1 | 2.9 | <10 | <2 |
| ARS008 | Soil | <0.02 | 0.59 | 11.4 | 0.5 | <0.05 | 0.3 | 2.33 | 37.7 | 0.02 | <1 | 0.3 | 9.7 | <10 | <2 |
| ARS009 | Soil | <0.02 | 0.85 | 23.9 | 0.6 | <0.05 | 0.6 | 2.52 | 36.7 | 0.02 | <1 | 0.4 | 14.1 | <10 | <2 |
| ARS010 | Soil | <0.02 | 0.34 | 12.4 | 0.4 | <0.05 | 0.2 | 2.89 | 44.4 | <0.02 | <1 | 0.3 | 9.5 | <10 | <2 |
| ARS011 | Soil | <0.02 | 0.66 | 12.0 | 0.7 | <0.05 | 0.2 | 2.69 | 37.5 | 0.02 | <1 | 0.2 | 9.8 | <10 | <2 |
| ARS012 | Soil | <0.02 | 0.65 | 10.2 | 0.6 | <0.05 | 0.3 | 3.46 | 28.8 | 0.03 | <1 | 0.3 | 13.1 | <10 | <2 |
| ARS013 | Soil | <0.02 | 0.70 | 14.3 | 0.5 | <0.05 | 1.0 | 2.99 | 37.4 | 0.06 | <1 | 0.5 | 13.8 | <10 | <2 |
| ARS014 | Soil | <0.02 | 1.37 | 12.5 | 0.8 | <0.05 | 1.0 | 3.70 | 28.9 | 0.06 | <1 | 0.5 | 11.9 | <10 | <2 |
| ARS015 | Soil | 0.04 | 0.72 | 11.9 | 0.6 | <0.05 | 1.9 | 3.18 | 37.5 | 0.29 | <1 | 0.5 | 12.4 | <10 | <2 |
| ARS016 | Soil | <0.02 | 1.06 | 10.8 | 0.6 | <0.05 | 1.1 | 2.04 | 34.3 | 0.04 | <1 | 0.2 | 10.2 | <10 | <2 |
| ARS017 | Soil | <0.02 | 1.33 | 17.5 | 0.7 | <0.05 | 1.4 | 3.91 | 29.8 | 0.06 | <1 | 0.5 | 11.9 | <10 | <2 |
| ARS018 | Soil | <0.02 | 1.27 | 10.5 | 0.8 | <0.05 | 0.7 | 2.20 | 30.2 | 0.02 | <1 | 0.3 | 11.1 | <10 | <2 |
| ARS019 | Soil | 0.04 | 1.33 | 15.2 | 0.9 | <0.05 | 2.3 | 8.20 | 47.2 | 0.12 | <1 | 1.2 | 14.9 | <10 | <2 |
| ARS020 | Soil | 0.08 | 0.77 | 20.0 | 0.9 | <0.05 | 4.3 | 9.72 | 60.6 | 0.18 | <1 | 1.3 | 10.5 | <10 | <2 |
| ARS021 | Soil | 0.03 | 1.53 | 8.9 | 1.0 | <0.05 | 2.1 | 3.75 | 34.3 | 0.25 | <1 | 0.9 | 10.1 | <10 | <2 |
| ARS022 | Soil | 0.04 | 1.38 | 19.2 | 0.8 | <0.05 | 2.8 | 3.21 | 32.4 | 0.15 | <1 | 0.6 | 12.6 | <10 | <2 |
| ARS023 | Soil | 0.11 | 1.39 | 14.4 | 0.9 | <0.05 | 4.8 | 3.14 | 31.4 | 0.15 | <1 | 1.1 | 17.1 | <10 | <2 |
| ARS024 | Soil | 0.03 | 0.65 | 6.4 | 0.6 | <0.05 | 1.8 | 2.33 | 34.1 | 0.03 | <1 | 0.4 | 9.8 | <10 | <2 |
| ARS025 | Soil | 0.06 | 1.59 | 9.8 | 0.9 | <0.05 | 3.0 | 3.44 | 30.9 | 0.19 | <1 | 0.8 | 14.9 | <10 | <2 |
| ARS026 | Soil | 0.06 | 1.59 | 13.6 | 1.0 | <0.05 | 3.7 | 4.74 | 37.2 | 0.16 | <1 | 0.5 | 11.8 | <10 | <2 |
| ARS027 | Soil | 0.03 | 1.38 | 9.8 | 0.9 | <0.05 | 2.1 | 2.06 | 27.1 | 0.04 | <1 | 0.3 | 13.4 | <10 | <2 |
| AMS001 | Soil | <0.02 | 0.61 | 7.4 | 0.6 | <0.05 | <0.1 | 2.50 | 43.8 | 0.03 | <1 | 0.3 | 5.3 | <10 | <2 |
| AMS002 | Soil | 0.03 | 0.38 | 5.1 | 0.4 | <0.05 | 1.5 | 21.29 | 75.7 | <0.02 | <1 | 0.4 | 11.9 | <10 | <2 |
| AMS003 | Soil | 0.03 | 0.40 | 4.8 | 0.3 | <0.05 | 1.1 | 17.15 | 51.7 | <0.02 | <1 | 0.3 | 10.0 | <10 | <2 |

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

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Client: **Cazador Resources**
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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| AMS004 | Soil | <0.005 | 0.25 | 14.80 | 43.36 | 658.0 | 265 | 27.7 | 11.6 | 796 | 2.69 | 26.4 | 0.4 | 0.7 | 11.0 | 30.3 | 2.50 | 0.66 | 0.33 | 5 | 1.84 |
| AMS005 | Soil | <0.005 | 0.84 | 25.34 | 325.62 | 3289.7 | 525 | 64.0 | 9.8 | 1833 | 3.79 | 46.9 | 0.8 | 1.3 | 7.4 | 11.5 | 12.36 | 1.78 | 0.33 | 7 | 0.89 |
| AMS006 | Soil | <0.005 | 0.62 | 14.49 | 71.76 | 238.2 | 389 | 31.0 | 13.5 | 981 | 3.68 | 28.8 | 0.5 | 1.0 | 6.7 | 12.6 | 1.45 | 1.12 | 0.43 | 9 | 1.07 |
| AMS007 | Soil | <0.005 | 0.38 | 17.73 | 235.42 | 998.5 | 181 | 31.6 | 14.1 | 1545 | 2.74 | 31.4 | 0.4 | 0.4 | 13.7 | 12.3 | 2.79 | 1.75 | 0.38 | 6 | 0.97 |
| AMS008 | Soil | <0.005 | 0.23 | 17.93 | 49.09 | 192.2 | 220 | 33.8 | 14.2 | 1118 | 3.61 | 32.9 | 0.5 | 0.7 | 10.1 | 31.5 | 0.67 | 1.32 | 0.44 | 9 | 1.80 |
| AMS009 | Soil | <0.005 | 0.19 | 20.97 | 55.24 | 179.9 | 159 | 35.2 | 13.4 | 814 | 3.39 | 32.7 | 0.5 | 1.6 | 11.8 | 32.2 | 0.46 | 1.42 | 0.37 | 9 | 2.47 |
| AMS010 | Soil | <0.005 | 0.19 | 17.78 | 58.12 | 176.0 | 177 | 29.8 | 13.0 | 828 | 3.21 | 24.1 | 0.5 | 3.1 | 9.6 | 53.7 | 0.55 | 1.29 | 0.47 | 7 | 3.09 |
| DRS001 | Soil | <0.005 | 1.96 | 35.85 | 18.33 | 154.2 | 344 | 25.2 | 5.9 | 114 | 1.74 | 6.6 | 1.1 | 1.2 | 1.7 | 19.3 | 0.54 | 1.67 | 0.17 | 20 | 0.04 |
| DRS002 | Soil | <0.005 | 1.27 | 10.89 | 13.79 | 135.9 | 455 | 15.7 | 4.6 | 195 | 2.16 | 3.9 | 0.7 | <0.2 | 4.6 | 13.1 | 0.88 | 0.87 | 0.24 | 38 | 0.14 |
| DRS003 | Soil | 0.005 | 2.06 | 18.55 | 19.55 | 161.1 | 462 | 22.2 | 5.3 | 95 | 2.26 | 6.7 | 0.7 | 0.5 | 5.0 | 14.0 | 0.81 | 1.47 | 0.20 | 37 | 0.03 |
| DRS004 | Soil | 0.005 | 1.18 | 11.02 | 16.47 | 133.5 | 363 | 13.5 | 4.3 | 147 | 1.56 | 2.8 | 0.6 | <0.2 | 1.5 | 16.0 | 1.26 | 0.76 | 0.24 | 31 | 0.15 |
| DRS005 | Soil | <0.005 | 0.91 | 47.59 | 23.95 | 256.5 | 558 | 36.5 | 5.3 | 360 | 1.40 | 4.3 | 1.5 | <0.2 | 1.0 | 22.8 | 5.17 | 0.50 | 0.27 | 23 | 0.32 |
| DRS006 | Soil | <0.005 | 1.51 | 18.50 | 20.01 | 131.2 | 221 | 17.8 | 6.2 | 264 | 1.45 | 3.0 | 1.0 | 0.2 | 0.3 | 18.6 | 1.63 | 0.63 | 0.23 | 29 | 0.16 |
| DRS007 | Soil | 0.008 | 0.73 | 5.90 | 13.11 | 47.9 | 135 | 6.2 | 1.8 | 62 | 0.62 | 1.0 | 0.6 | <0.2 | 0.6 | 10.8 | 0.55 | 0.23 | 0.21 | 16 | 0.15 |
| DRS008 | Soil | 0.010 | 1.62 | 7.11 | 15.37 | 89.2 | 129 | 12.3 | 2.7 | 74 | 1.02 | 2.6 | 0.4 | <0.2 | 0.3 | 12.0 | 0.60 | 0.68 | 0.21 | 20 | 0.13 |
| DRS009 | Soil | <0.005 | 2.18 | 10.59 | 17.23 | 140.5 | 79 | 20.7 | 4.5 | 126 | 1.46 | 4.2 | 0.5 | <0.2 | 4.7 | 10.7 | 0.64 | 1.02 | 0.18 | 27 | 0.14 |
| DRS010 | Soil | <0.005 | 1.53 | 5.58 | 11.39 | 114.1 | 69 | 12.0 | 2.6 | 89 | 1.24 | 2.7 | 0.5 | 0.2 | 3.2 | 6.5 | 0.34 | 0.59 | 0.16 | 36 | 0.06 |
| DRS011 | Soil | <0.005 | 1.84 | 10.34 | 16.89 | 214.4 | 32 | 19.7 | 4.6 | 104 | 1.56 | 4.4 | 0.5 | <0.2 | 5.0 | 8.7 | 0.55 | 1.02 | 0.15 | 37 | 0.09 |
| DRS012 | Soil | <0.005 | 1.45 | 8.04 | 14.32 | 67.0 | 104 | 13.9 | 3.8 | 104 | 1.48 | 4.8 | 0.4 | <0.2 | 3.4 | 9.0 | 0.20 | 0.78 | 0.15 | 28 | 0.09 |
| DRS013 | Soil | <0.005 | 1.68 | 4.76 | 23.71 | 258.7 | 64 | 11.9 | 3.3 | 151 | 1.50 | 2.2 | 0.5 | <0.2 | 3.9 | 7.7 | 0.75 | 0.58 | 0.23 | 38 | 0.08 |
| DRS014 | Soil | <0.005 | 1.12 | 6.81 | 21.62 | 93.8 | 40 | 14.3 | 3.7 | 121 | 1.51 | 4.0 | 0.5 | <0.2 | 5.1 | 7.0 | 0.22 | 0.50 | 0.18 | 32 | 0.08 |
| DRS015 | Soil | 0.006 | 1.32 | 14.11 | 257.18 | 176.0 | 1131 | 30.4 | 7.1 | 1253 | 1.62 | 7.4 | 1.2 | 1.1 | 1.4 | 27.2 | 1.23 | 1.62 | 0.17 | 27 | 4.28 |
| DRS016 | Soil | <0.005 | 1.42 | 7.11 | 123.54 | 210.9 | 130 | 15.7 | 4.9 | 259 | 1.51 | 3.6 | 0.7 | 0.4 | 5.0 | 7.7 | 0.60 | 0.77 | 0.14 | 36 | 0.13 |
| DRS017 | Soil | <0.005 | 1.89 | 11.95 | 155.65 | 231.1 | 1616 | 24.6 | 4.5 | 1404 | 0.99 | 6.6 | 1.4 | 1.1 | 0.9 | 50.2 | 1.48 | 1.99 | 0.09 | 19 | 12.53 |
| DRS018 | Soil | 0.012 | 2.49 | 17.59 | 2824.31 | 279.5 | 18708 | 34.2 | 6.8 | 1061 | 1.72 | 12.7 | 1.1 | 5.6 | 4.2 | 33.2 | 1.54 | 5.40 | 0.16 | 27 | 5.09 |
| DRS019 | Soil | 0.011 | 4.48 | 30.96 | 444.55 | 226.8 | 3574 | 40.9 | 6.8 | 645 | 1.53 | 12.1 | 1.1 | 4.9 | 2.4 | 42.4 | 1.80 | 5.74 | 0.18 | 31 | 6.74 |
| DRS020 | Soil | <0.005 | 2.55 | 10.10 | 1916.67 | 612.2 | 15354 | 25.7 | 6.5 | 1169 | 2.29 | 9.9 | 1.2 | 1.5 | 4.8 | 19.5 | 1.79 | 5.02 | 0.24 | 46 | 2.66 |
| DRS021 | Soil | 0.006 | 5.13 | 16.34 | 2775.10 | 286.1 | 10385 | 38.2 | 6.8 | 583 | 2.12 | 12.7 | 1.4 | 2.1 | 7.3 | 14.8 | 0.85 | 5.03 | 0.21 | 48 | 0.66 |
| DRS022 | Soil | <0.005 | 2.97 | 11.40 | 167.16 | 182.9 | 167 | 30.1 | 6.4 | 284 | 1.93 | 8.2 | 0.7 | <0.2 | 5.3 | 8.6 | 0.58 | 2.00 | 0.17 | 45 | 0.11 |
| DRS023 | Soil | <0.005 | 2.06 | 7.37 | 24.44 | 93.6 | 39 | 16.3 | 4.2 | 121 | 1.42 | 3.9 | 0.4 | 0.4 | 4.9 | 5.2 | 0.61 | 0.97 | 0.14 | 42 | 0.05 |

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Project: RANCHERIA

Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| AMS004 | Soil | 0.076 | 33.5 | 9.2 | 0.26 | 55.8 | 0.003 | <1 | 0.58 | 0.003 | 0.05 | <0.1 | 1.9 | 0.17 | <0.02 | 26 | <0.1 | <0.02 | 1.4 | 0.39 | <0.1 |
| AMS005 | Soil | 0.210 | 44.7 | 7.7 | 0.16 | 83.0 | 0.005 | <1 | 0.71 | 0.005 | 0.03 | 0.2 | 5.3 | 2.03 | 0.03 | 87 | 0.3 | <0.02 | 1.8 | 0.53 | <0.1 |
| AMS006 | Soil | 0.055 | 34.8 | 19.1 | 0.30 | 135.8 | 0.002 | <1 | 1.12 | 0.004 | 0.06 | 0.1 | 3.0 | 0.24 | 0.03 | 59 | 0.3 | 0.04 | 2.7 | 0.57 | <0.1 |
| AMS007 | Soil | 0.156 | 40.8 | 9.5 | 0.24 | 74.5 | 0.006 | <1 | 0.66 | 0.002 | 0.03 | 0.1 | 2.8 | 0.81 | <0.02 | 24 | <0.1 | <0.02 | 1.8 | 0.53 | <0.1 |
| AMS008 | Soil | 0.075 | 31.2 | 15.4 | 0.64 | 66.6 | 0.004 | <1 | 0.98 | 0.004 | 0.07 | 0.2 | 2.6 | 0.06 | <0.02 | 9 | 0.2 | 0.04 | 2.7 | 0.52 | <0.1 |
| AMS009 | Soil | 0.071 | 29.7 | 15.7 | 0.49 | 61.1 | 0.003 | 1 | 1.02 | 0.004 | 0.08 | 0.1 | 2.6 | 0.05 | <0.02 | 8 | 0.2 | <0.02 | 2.8 | 0.53 | <0.1 |
| AMS010 | Soil | 0.060 | 26.9 | 12.3 | 0.64 | 51.9 | 0.003 | <1 | 0.79 | 0.003 | 0.05 | 0.1 | 2.4 | 0.05 | <0.02 | 21 | 0.3 | <0.02 | 2.1 | 0.40 | <0.1 |
| DRS001 | Soil | 0.065 | 22.6 | 11.2 | 0.12 | 158.1 | 0.006 | 2 | 0.82 | 0.003 | 0.11 | 0.1 | 1.0 | 0.17 | 0.05 | 44 | 0.7 | 0.05 | 1.7 | 0.62 | <0.1 |
| DRS002 | Soil | 0.175 | 17.0 | 20.7 | 0.26 | 139.3 | 0.048 | 2 | 1.03 | 0.005 | 0.09 | 0.2 | 1.6 | 0.14 | 0.02 | 42 | 0.4 | 0.04 | 4.8 | 0.95 | <0.1 |
| DRS003 | Soil | 0.096 | 20.8 | 17.8 | 0.16 | 122.6 | 0.021 | 2 | 1.05 | 0.003 | 0.10 | 0.2 | 1.5 | 0.19 | 0.03 | 28 | 0.6 | 0.02 | 3.9 | 0.82 | <0.1 |
| DRS004 | Soil | 0.051 | 17.7 | 16.3 | 0.19 | 288.1 | 0.037 | 1 | 0.72 | 0.005 | 0.12 | 0.2 | 1.2 | 0.12 | 0.03 | 18 | 0.2 | 0.04 | 3.8 | 0.93 | <0.1 |
| DRS005 | Soil | 0.117 | 26.0 | 14.7 | 0.29 | 421.2 | 0.024 | <1 | 0.89 | 0.006 | 0.10 | 0.3 | 1.0 | 0.17 | 0.03 | 57 | 0.8 | <0.02 | 4.1 | 1.72 | <0.1 |
| DRS006 | Soil | 0.074 | 16.3 | 17.6 | 0.20 | 470.2 | 0.016 | 1 | 0.93 | 0.005 | 0.14 | 0.2 | 0.7 | 0.16 | 0.02 | 24 | 0.1 | 0.03 | 3.6 | 1.12 | <0.1 |
| DRS007 | Soil | 0.039 | 18.0 | 11.7 | 0.13 | 244.0 | 0.027 | 2 | 0.55 | 0.004 | 0.08 | 0.2 | 0.7 | 0.10 | <0.02 | 5 | <0.1 | <0.02 | 3.0 | 1.07 | <0.1 |
| DRS008 | Soil | 0.040 | 16.3 | 12.2 | 0.12 | 310.0 | 0.012 | 2 | 0.50 | 0.004 | 0.11 | 0.2 | 0.4 | 0.11 | 0.05 | 20 | 0.2 | <0.02 | 2.6 | 0.88 | <0.1 |
| DRS009 | Soil | 0.027 | 26.7 | 15.7 | 0.19 | 321.7 | 0.017 | 3 | 0.78 | 0.004 | 0.12 | 0.2 | 1.2 | 0.16 | <0.02 | 9 | 0.3 | <0.02 | 2.8 | 0.79 | <0.1 |
| DRS010 | Soil | 0.019 | 22.0 | 13.2 | 0.15 | 195.2 | 0.026 | <1 | 0.81 | 0.003 | 0.07 | 0.2 | 1.0 | 0.09 | <0.02 | 10 | 0.1 | 0.02 | 3.6 | 0.73 | <0.1 |
| DRS011 | Soil | 0.021 | 24.3 | 17.2 | 0.22 | 275.6 | 0.011 | <1 | 1.13 | 0.003 | 0.07 | 0.2 | 1.5 | 0.16 | <0.02 | 10 | 0.1 | <0.02 | 3.4 | 0.73 | <0.1 |
| DRS012 | Soil | 0.022 | 21.2 | 13.7 | 0.19 | 243.0 | 0.025 | 1 | 0.82 | 0.003 | 0.11 | 0.2 | 1.2 | 0.12 | <0.02 | 10 | <0.1 | 0.03 | 3.0 | 0.81 | <0.1 |
| DRS013 | Soil | 0.024 | 16.0 | 20.4 | 0.24 | 214.2 | 0.044 | <1 | 1.07 | 0.004 | 0.05 | 0.3 | 1.6 | 0.10 | <0.02 | 10 | <0.1 | <0.02 | 5.0 | 0.81 | <0.1 |
| DRS014 | Soil | 0.032 | 23.1 | 16.2 | 0.22 | 179.3 | 0.022 | 1 | 1.16 | 0.004 | 0.06 | 0.2 | 1.6 | 0.11 | <0.02 | 7 | 0.1 | <0.02 | 3.8 | 0.95 | <0.1 |
| DRS015 | Soil | 0.100 | 13.6 | 22.1 | 2.45 | 122.9 | 0.030 | 4 | 0.85 | 0.010 | 0.08 | 0.3 | 1.6 | 0.30 | 0.04 | 92 | 0.3 | <0.02 | 2.5 | 0.98 | <0.1 |
| DRS016 | Soil | 0.018 | 22.1 | 18.2 | 0.23 | 172.7 | 0.014 | 2 | 1.26 | 0.004 | 0.07 | 0.1 | 1.9 | 0.19 | <0.02 | 12 | <0.1 | <0.02 | 3.7 | 1.13 | <0.1 |
| DRS017 | Soil | 0.057 | 7.6 | 11.3 | 6.45 | 216.1 | 0.009 | 4 | 0.68 | 0.018 | 0.08 | 0.1 | 1.1 | 0.29 | 0.03 | 133 | 0.4 | <0.02 | 1.5 | 0.69 | <0.1 |
| DRS018 | Soil | 0.063 | 18.5 | 16.3 | 2.86 | 155.3 | 0.029 | 2 | 0.85 | 0.011 | 0.11 | 0.2 | 2.5 | 0.33 | 0.03 | 402 | 0.5 | <0.02 | 2.4 | 0.90 | <0.1 |
| DRS019 | Soil | 0.062 | 13.5 | 15.8 | 3.52 | 227.2 | 0.022 | 4 | 0.82 | 0.012 | 0.10 | 0.2 | 1.8 | 0.54 | 0.04 | 335 | 0.8 | 0.03 | 2.2 | 0.81 | <0.1 |
| DRS020 | Soil | 0.038 | 15.9 | 22.4 | 1.64 | 183.2 | 0.053 | 3 | 1.50 | 0.009 | 0.06 | 0.3 | 2.6 | 0.26 | <0.02 | 192 | 0.5 | <0.02 | 4.7 | 1.30 | <0.1 |
| DRS021 | Soil | 0.038 | 23.4 | 22.6 | 0.54 | 406.0 | 0.023 | 2 | 1.46 | 0.005 | 0.06 | 0.2 | 3.0 | 0.45 | <0.02 | 377 | 0.5 | <0.02 | 4.3 | 1.21 | <0.1 |
| DRS022 | Soil | 0.020 | 19.1 | 20.6 | 0.26 | 419.7 | 0.022 | 1 | 1.40 | 0.004 | 0.08 | 0.2 | 2.1 | 0.24 | <0.02 | 16 | 0.2 | 0.03 | 3.9 | 0.83 | <0.1 |
| DRS023 | Soil | 0.010 | 20.6 | 15.7 | 0.17 | 248.2 | 0.031 | 1 | 1.02 | 0.003 | 0.02 | 0.2 | 1.5 | 0.11 | <0.02 | 5 | <0.1 | <0.02 | 4.0 | 0.43 | <0.1 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| AMS004 | Soil | 0.03 | 0.15 | 3.0 | 0.2 | <0.05 | 0.9 | 11.54 | 67.0 | <0.02 | <1 | 0.4 | 6.5 | <10 | <2 |
| AMS005 | Soil | 0.04 | 0.20 | 3.3 | 0.8 | <0.05 | 1.8 | 34.01 | 71.6 | 0.05 | <1 | 0.6 | 6.7 | <10 | 2 |
| AMS006 | Soil | 0.03 | 0.14 | 5.7 | 0.7 | <0.05 | 1.2 | 25.16 | 70.1 | 0.03 | <1 | 0.3 | 11.5 | <10 | <2 |
| AMS007 | Soil | <0.02 | 0.18 | 2.6 | 0.2 | <0.05 | 0.7 | 14.46 | 86.9 | 0.03 | <1 | 0.5 | 6.4 | <10 | <2 |
| AMS008 | Soil | 0.04 | 0.12 | 4.7 | 0.5 | <0.05 | 1.4 | 18.65 | 68.3 | 0.03 | <1 | 0.4 | 13.5 | <10 | <2 |
| AMS009 | Soil | 0.05 | 0.13 | 4.6 | 0.5 | <0.05 | 2.0 | 15.14 | 64.6 | 0.02 | <1 | 0.3 | 15.9 | <10 | <2 |
| AMS010 | Soil | 0.05 | 0.13 | 3.4 | 0.4 | <0.05 | 1.6 | 18.57 | 56.9 | 0.06 | <1 | 0.5 | 10.5 | <10 | <2 |
| DRS001 | Soil | <0.02 | 0.16 | 7.8 | 0.2 | <0.05 | 0.5 | 5.33 | 42.6 | 0.02 | <1 | 0.3 | 8.1 | <10 | <2 |
| DRS002 | Soil | 0.02 | 1.35 | 12.3 | 0.6 | <0.05 | 1.4 | 3.72 | 32.9 | 0.03 | <1 | 0.3 | 11.8 | <10 | <2 |
| DRS003 | Soil | 0.02 | 0.92 | 12.9 | 0.5 | <0.05 | 1.7 | 3.31 | 38.6 | <0.02 | <1 | 0.3 | 8.6 | <10 | <2 |
| DRS004 | Soil | <0.02 | 0.92 | 20.8 | 0.6 | <0.05 | 0.6 | 2.52 | 33.1 | <0.02 | <1 | 0.4 | 7.1 | <10 | <2 |
| DRS005 | Soil | <0.02 | 0.77 | 14.4 | 0.9 | <0.05 | 0.2 | 12.79 | 47.5 | 0.02 | <1 | 0.3 | 16.2 | <10 | <2 |
| DRS006 | Soil | <0.02 | 0.38 | 25.5 | 0.6 | <0.05 | 0.2 | 5.33 | 31.0 | 0.03 | <1 | 0.3 | 7.7 | <10 | <2 |
| DRS007 | Soil | <0.02 | 0.58 | 19.3 | 0.6 | <0.05 | 0.3 | 3.18 | 32.8 | <0.02 | <1 | 0.3 | 4.6 | <10 | <2 |
| DRS008 | Soil | <0.02 | 0.25 | 22.0 | 0.4 | <0.05 | 0.1 | 1.90 | 29.1 | <0.02 | <1 | 0.1 | 5.6 | <10 | <2 |
| DRS009 | Soil | <0.02 | 0.56 | 17.4 | 0.4 | <0.05 | 0.7 | 2.88 | 48.4 | <0.02 | <1 | 0.2 | 10.0 | <10 | <2 |
| DRS010 | Soil | <0.02 | 0.69 | 10.7 | 0.6 | <0.05 | 0.4 | 2.06 | 40.4 | <0.02 | <1 | 0.1 | 7.2 | <10 | <2 |
| DRS011 | Soil | <0.02 | 0.48 | 10.2 | 0.5 | <0.05 | 0.8 | 2.61 | 43.6 | <0.02 | <1 | 0.3 | 11.6 | <10 | <2 |
| DRS012 | Soil | <0.02 | 0.65 | 15.8 | 0.4 | <0.05 | 0.4 | 2.30 | 38.0 | <0.02 | <1 | 0.4 | 7.7 | <10 | <2 |
| DRS013 | Soil | <0.02 | 1.10 | 9.1 | 0.8 | <0.05 | 0.7 | 2.17 | 28.7 | <0.02 | <1 | 0.4 | 13.4 | <10 | <2 |
| DRS014 | Soil | <0.02 | 0.72 | 11.8 | 0.5 | <0.05 | 0.7 | 2.94 | 42.0 | <0.02 | <1 | 0.3 | 13.6 | <10 | <2 |
| DRS015 | Soil | <0.02 | 0.53 | 12.1 | 0.4 | <0.05 | 0.9 | 7.01 | 26.0 | 0.08 | <1 | 0.3 | 8.2 | <10 | <2 |
| DRS016 | Soil | 0.02 | 0.63 | 16.4 | 0.6 | <0.05 | 1.0 | 2.87 | 43.2 | 0.05 | <1 | 0.5 | 10.6 | <10 | <2 |
| DRS017 | Soil | 0.03 | 0.32 | 12.3 | 0.3 | <0.05 | 1.2 | 5.82 | 14.2 | 0.07 | <1 | 0.4 | 5.1 | <10 | <2 |
| DRS018 | Soil | 0.05 | 0.80 | 13.6 | 0.6 | <0.05 | 2.6 | 9.36 | 32.5 | 0.24 | <1 | 0.7 | 6.9 | <10 | <2 |
| DRS019 | Soil | 0.02 | 0.61 | 10.0 | 0.5 | <0.05 | 1.5 | 10.25 | 24.1 | 0.09 | <1 | 0.5 | 6.7 | <10 | <2 |
| DRS020 | Soil | 0.04 | 1.43 | 14.9 | 1.0 | <0.05 | 1.9 | 5.45 | 34.3 | 0.29 | <1 | 0.7 | 13.6 | <10 | <2 |
| DRS021 | Soil | 0.09 | 0.74 | 12.3 | 0.8 | <0.05 | 4.2 | 7.15 | 55.9 | 0.16 | <1 | 0.9 | 10.2 | <10 | <2 |
| DRS022 | Soil | 0.04 | 0.74 | 12.0 | 0.6 | <0.05 | 2.3 | 3.28 | 38.1 | 0.07 | <1 | 0.7 | 11.5 | <10 | <2 |
| DRS023 | Soil | 0.03 | 0.99 | 4.3 | 0.8 | <0.05 | 2.0 | 2.23 | 35.9 | <0.02 | 1 | 0.3 | 9.9 | <10 | <2 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| MRS001 | Soil | <0.005 | 1.43 | 13.83 | 17.74 | 143.0 | 421 | 18.0 | 4.5 | 145 | 1.63 | 4.0 | 0.7 | 0.6 | 1.1 | 18.2 | 0.80 | 1.18 | 0.16 | 25 | 0.06 |
| MRS002 | Soil | 0.009 | 1.25 | 10.58 | 14.06 | 125.3 | 232 | 13.8 | 4.1 | 152 | 1.96 | 3.7 | 0.6 | 0.4 | 2.7 | 11.5 | 1.43 | 0.90 | 0.22 | 33 | 0.13 |
| MRS003 | Soil | <0.005 | 1.04 | 13.74 | 15.97 | 310.4 | 1365 | 20.4 | 7.1 | 190 | 2.17 | 3.9 | 0.9 | 2.2 | 2.0 | 18.7 | 3.87 | 0.82 | 0.27 | 36 | 0.20 |
| MRS004 | Soil | <0.005 | 1.21 | 13.24 | 14.60 | 182.4 | 352 | 15.6 | 4.6 | 138 | 1.63 | 2.3 | 0.7 | <0.2 | 5.0 | 11.3 | 1.61 | 0.68 | 0.26 | 35 | 0.09 |
| MRS005 | Soil | <0.005 | 1.18 | 9.97 | 13.49 | 120.3 | 221 | 16.3 | 4.8 | 156 | 1.70 | 3.1 | 0.7 | 5.8 | 4.6 | 13.6 | 1.26 | 0.87 | 0.18 | 30 | 0.12 |
| MRS006 | Soil | 0.006 | 1.54 | 23.45 | 17.10 | 220.5 | 308 | 20.2 | 8.5 | 582 | 1.43 | 1.7 | 0.6 | 0.4 | 0.5 | 24.1 | 3.53 | 0.63 | 0.19 | 21 | 0.31 |
| MRS007 | Soil | <0.005 | 1.23 | 24.77 | 14.15 | 134.5 | 391 | 22.0 | 5.9 | 182 | 1.33 | 3.1 | 1.2 | 2.9 | 1.0 | 17.9 | 1.11 | 0.73 | 0.15 | 18 | 0.21 |
| MRS008 | Soil | <0.005 | 1.15 | 11.34 | 18.20 | 149.9 | 284 | 13.0 | 6.2 | 265 | 1.24 | 2.1 | 0.6 | 1.0 | 0.6 | 13.4 | 1.25 | 0.49 | 0.23 | 30 | 0.25 |
| MRS009 | Soil | <0.005 | 1.25 | 23.97 | 17.72 | 150.3 | 381 | 19.6 | 6.1 | 280 | 1.80 | 4.0 | 1.7 | 0.4 | 0.7 | 17.3 | 0.81 | 0.59 | 0.25 | 32 | 0.40 |
| MRS010 | Soil | <0.005 | 1.40 | 8.62 | 11.74 | 104.9 | 77 | 14.4 | 3.7 | 114 | 1.29 | 3.6 | 0.4 | 0.4 | 1.7 | 10.0 | 0.43 | 0.78 | 0.14 | 29 | 0.17 |
| MRS011 | Soil | 0.007 | 1.19 | 6.77 | 10.19 | 68.1 | 83 | 11.4 | 3.5 | 126 | 1.08 | 2.5 | 0.5 | 0.5 | 0.8 | 8.7 | 0.41 | 0.56 | 0.13 | 24 | 0.14 |
| MRS012 | Soil | <0.005 | 0.80 | 12.32 | 24.42 | 190.1 | 428 | 19.6 | 5.5 | 343 | 1.69 | 4.1 | 1.3 | 0.5 | 1.7 | 13.9 | 1.38 | 0.67 | 0.19 | 28 | 0.63 |
| MRS013 | Soil | 0.006 | 1.68 | 10.01 | 26.06 | 114.9 | 61 | 16.2 | 5.0 | 214 | 1.40 | 3.3 | 0.6 | 1.0 | 1.2 | 9.4 | 0.57 | 0.72 | 0.18 | 26 | 0.09 |
| MRS014 | Soil | <0.005 | 1.64 | 8.94 | 12.11 | 67.2 | 33 | 16.7 | 3.9 | 83 | 1.33 | 5.3 | 0.5 | 1.2 | 2.1 | 9.5 | 0.26 | 0.83 | 0.15 | 21 | 0.12 |
| MRS015 | Soil | <0.005 | 2.73 | 14.97 | 158.12 | 230.8 | 1063 | 30.2 | 6.2 | 989 | 1.44 | 7.5 | 1.1 | 1.3 | 1.9 | 35.9 | 1.05 | 2.01 | 0.15 | 28 | 6.23 |
| MRS016 | Soil | <0.005 | 1.34 | 7.34 | 233.90 | 604.9 | 467 | 17.1 | 4.6 | 572 | 1.86 | 3.3 | 0.9 | 0.8 | 1.2 | 10.0 | 2.25 | 1.55 | 0.23 | 36 | 0.34 |
| MRS017 | Soil | 0.005 | 1.48 | 8.24 | 268.95 | 506.3 | 403 | 22.7 | 6.4 | 1043 | 1.85 | 6.2 | 1.0 | 0.4 | 3.1 | 11.1 | 2.62 | 1.70 | 0.19 | 37 | 1.12 |
| MRS018 | Soil | <0.005 | 1.27 | 6.60 | 127.41 | 471.1 | 249 | 19.6 | 5.3 | 232 | 2.07 | 5.8 | 0.9 | 0.7 | 5.4 | 9.4 | 1.13 | 1.18 | 0.21 | 39 | 0.22 |
| MRS019 | Soil | <0.005 | 4.45 | 22.75 | 1700.69 | 348.1 | 7456 | 35.1 | 6.0 | 857 | 1.65 | 14.1 | 1.3 | 3.1 | 3.5 | 45.1 | 1.11 | 9.41 | 0.15 | 40 | 7.40 |
| MRS020 | Soil | <0.005 | 4.49 | 12.60 | 685.85 | 398.6 | 1783 | 36.5 | 7.6 | 272 | 2.51 | 9.1 | 0.9 | 0.6 | 5.0 | 13.5 | 0.86 | 3.18 | 0.25 | 56 | 0.18 |
| MRS021 | Soil | <0.005 | 2.58 | 8.50 | 490.73 | 292.0 | 589 | 21.8 | 6.3 | 417 | 2.40 | 9.2 | 0.6 | 1.5 | 5.4 | 8.8 | 0.71 | 3.01 | 0.21 | 49 | 0.19 |
| MRS022 | Soil | <0.005 | 3.40 | 10.21 | 460.32 | 227.7 | 778 | 28.6 | 7.7 | 603 | 2.48 | 10.2 | 0.7 | 0.7 | 5.3 | 9.6 | 2.05 | 2.66 | 0.21 | 53 | 0.27 |
| MRS023 | Soil | <0.005 | 1.47 | 5.72 | 34.38 | 178.0 | 175 | 14.0 | 5.6 | 1554 | 1.84 | 2.2 | 0.9 | <0.2 | 3.5 | 8.6 | 2.01 | 0.72 | 0.29 | 37 | 0.29 |
| MRS024 | Soil | <0.005 | 2.09 | 8.81 | 53.48 | 95.3 | 29 | 22.8 | 5.6 | 109 | 1.87 | 6.9 | 0.6 | 2.0 | 5.7 | 6.9 | 0.27 | 1.54 | 0.16 | 44 | 0.08 |
| MMS001 | Soil | 0.014 | 1.00 | 16.28 | 106.56 | 1169.0 | 684 | 26.4 | 7.4 | 250 | 3.47 | 98.3 | 0.9 | 12.9 | 9.6 | 18.7 | 3.76 | 2.38 | 0.68 | 17 | 0.44 |
| MMS002 | Soil | 0.007 | 0.87 | 21.28 | 166.95 | 646.1 | 623 | 34.2 | 10.9 | 407 | 3.49 | 151.6 | 0.8 | 8.9 | 12.1 | 72.4 | 2.00 | 2.14 | 0.50 | 16 | 2.27 |
| MMS003 | Soil | <0.005 | 0.86 | 12.04 | 159.03 | 679.1 | 435 | 23.0 | 8.8 | 665 | 3.08 | 74.7 | 0.7 | 3.1 | 9.2 | 29.0 | 3.79 | 1.88 | 0.49 | 18 | 0.66 |
| MMS004 | Soil | 0.020 | 0.53 | 17.54 | 352.22 | 1990.3 | 2862 | 26.3 | 9.4 | 887 | 3.15 | 237.5 | 0.6 | 24.8 | 7.7 | 87.3 | 7.13 | 5.63 | 0.86 | 13 | 4.15 |
| MMS005 | Soil | 0.012 | 0.48 | 16.85 | 269.55 | 3535.0 | 4337 | 33.8 | 10.8 | 1374 | 4.05 | 138.5 | 1.0 | 14.5 | 6.9 | 37.6 | 7.97 | 3.86 | 0.64 | 10 | 2.63 |
| MMS006 | Soil | 0.005 | 0.51 | 13.61 | 202.82 | 1898.4 | 1395 | 26.7 | 10.1 | 423 | 3.03 | 104.2 | 0.7 | 6.8 | 9.4 | 22.8 | 4.30 | 2.70 | 0.51 | 11 | 0.86 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| MRS001 | Soil | 0.053 | 21.8 | 11.8 | 0.15 | 130.9 | 0.012 | 1 | 0.81 | 0.003 | 0.12 | 0.2 | 0.7 | 0.18 | 0.06 | 32 | 0.4 | <0.02 | 2.5 | 0.67 | <0.1 |
| MRS002 | Soil | 0.118 | 16.7 | 17.5 | 0.23 | 144.6 | 0.041 | <1 | 0.87 | 0.004 | 0.09 | 0.3 | 1.3 | 0.13 | 0.02 | 24 | 0.2 | <0.02 | 4.2 | 0.92 | <0.1 |
| MRS003 | Soil | 0.133 | 18.0 | 23.1 | 0.34 | 550.3 | 0.038 | 1 | 1.17 | 0.005 | 0.10 | 0.2 | 1.9 | 0.15 | 0.03 | 68 | 0.4 | <0.02 | 4.4 | 1.19 | <0.1 |
| MRS004 | Soil | 0.108 | 19.4 | 18.9 | 0.24 | 225.0 | 0.041 | 1 | 1.06 | 0.004 | 0.10 | 0.3 | 1.8 | 0.15 | <0.02 | 16 | 0.2 | <0.02 | 4.5 | 1.14 | <0.1 |
| MRS005 | Soil | 0.061 | 23.2 | 15.7 | 0.25 | 210.5 | 0.032 | 2 | 0.84 | 0.005 | 0.11 | 0.2 | 1.5 | 0.13 | 0.03 | 14 | 0.4 | <0.02 | 3.5 | 0.70 | <0.1 |
| MRS006 | Soil | 0.057 | 15.9 | 12.9 | 0.10 | 459.5 | 0.011 | 2 | 0.66 | 0.004 | 0.14 | 0.1 | 0.9 | 0.12 | 0.03 | 17 | 0.2 | <0.02 | 2.4 | 0.66 | <0.1 |
| MRS007 | Soil | 0.072 | 18.2 | 13.3 | 0.18 | 421.1 | 0.016 | 2 | 0.75 | 0.004 | 0.10 | 0.1 | 1.2 | 0.13 | 0.03 | 30 | 0.4 | <0.02 | 2.3 | 0.87 | <0.1 |
| MRS008 | Soil | 0.047 | 15.6 | 16.3 | 0.21 | 674.6 | 0.034 | 1 | 0.78 | 0.005 | 0.11 | 0.2 | 0.9 | 0.10 | 0.03 | 24 | <0.1 | <0.02 | 3.9 | 0.82 | <0.1 |
| MRS009 | Soil | 0.074 | 20.8 | 19.7 | 0.35 | 681.9 | 0.025 | 1 | 1.10 | 0.006 | 0.09 | 0.2 | 1.3 | 0.14 | 0.03 | 50 | 0.4 | <0.02 | 4.2 | 1.10 | <0.1 |
| MRS010 | Soil | 0.027 | 22.4 | 12.5 | 0.18 | 355.0 | 0.016 | 2 | 0.75 | 0.003 | 0.09 | 0.2 | 1.0 | 0.11 | <0.02 | 11 | 0.1 | <0.02 | 2.8 | 0.60 | <0.1 |
| MRS011 | Soil | 0.022 | 20.5 | 12.3 | 0.20 | 324.2 | 0.020 | 2 | 0.70 | 0.004 | 0.10 | 0.1 | 0.9 | 0.09 | <0.02 | 12 | 0.1 | <0.02 | 2.9 | 0.63 | <0.1 |
| MRS012 | Soil | 0.053 | 18.5 | 18.3 | 0.36 | 284.5 | 0.028 | 3 | 1.00 | 0.008 | 0.09 | 0.2 | 1.5 | 0.15 | 0.03 | 74 | 0.3 | 0.03 | 3.2 | 1.05 | <0.1 |
| MRS013 | Soil | 0.038 | 22.4 | 15.7 | 0.23 | 260.8 | 0.016 | 1 | 0.82 | 0.004 | 0.10 | 0.2 | 1.2 | 0.15 | <0.02 | 16 | 0.2 | <0.02 | 3.3 | 1.08 | <0.1 |
| MRS014 | Soil | 0.028 | 24.5 | 11.7 | 0.16 | 264.9 | 0.014 | 1 | 0.60 | 0.003 | 0.09 | 0.2 | 0.9 | 0.11 | <0.02 | 10 | 0.2 | <0.02 | 2.7 | 0.74 | <0.1 |
| MRS015 | Soil | 0.052 | 13.2 | 16.6 | 3.86 | 194.3 | 0.011 | 3 | 0.98 | 0.008 | 0.10 | 0.2 | 1.9 | 0.35 | 0.02 | 142 | 0.5 | 0.03 | 2.1 | 0.89 | <0.1 |
| MRS016 | Soil | 0.047 | 13.7 | 22.8 | 0.33 | 249.4 | 0.037 | 1 | 1.11 | 0.005 | 0.06 | 0.2 | 1.4 | 0.16 | <0.02 | 34 | 0.2 | <0.02 | 4.4 | 1.69 | <0.1 |
| MRS017 | Soil | 0.033 | 15.7 | 22.8 | 0.77 | 151.8 | 0.015 | 2 | 1.13 | 0.005 | 0.06 | 0.2 | 2.4 | 0.25 | <0.02 | 73 | 0.2 | <0.02 | 3.2 | 1.25 | <0.1 |
| MRS018 | Soil | 0.017 | 19.1 | 21.1 | 0.34 | 163.9 | 0.038 | <1 | 1.16 | 0.006 | 0.06 | 0.2 | 2.0 | 0.22 | <0.02 | 26 | 0.1 | <0.02 | 4.0 | 1.21 | <0.1 |
| MRS019 | Soil | 0.046 | 15.2 | 16.8 | 4.48 | 337.0 | 0.017 | 4 | 1.07 | 0.010 | 0.07 | 0.2 | 2.8 | 0.42 | <0.02 | 321 | 0.5 | <0.02 | 2.6 | 0.84 | <0.1 |
| MRS020 | Soil | 0.026 | 17.9 | 24.2 | 0.28 | 547.7 | 0.023 | <1 | 1.58 | 0.005 | 0.05 | 0.3 | 2.3 | 0.32 | <0.02 | 61 | 0.3 | 0.04 | 5.0 | 1.49 | <0.1 |
| MRS021 | Soil | 0.026 | 15.3 | 24.0 | 0.33 | 166.1 | 0.036 | 1 | 1.44 | 0.005 | 0.05 | 0.3 | 2.0 | 0.24 | <0.02 | 31 | 0.2 | <0.02 | 4.7 | 1.28 | <0.1 |
| MRS022 | Soil | 0.025 | 15.9 | 23.2 | 0.34 | 353.2 | 0.033 | 2 | 1.44 | 0.006 | 0.05 | 0.2 | 2.2 | 0.32 | <0.02 | 36 | 0.1 | <0.02 | 4.1 | 1.09 | <0.1 |
| MRS023 | Soil | 0.018 | 14.9 | 17.8 | 0.27 | 205.1 | 0.058 | 2 | 1.05 | 0.008 | 0.04 | 0.2 | 1.5 | 0.18 | <0.02 | 24 | 0.1 | <0.02 | 4.4 | 1.49 | <0.1 |
| MRS024 | Soil | 0.014 | 19.8 | 20.8 | 0.24 | 359.5 | 0.026 | 1 | 1.32 | 0.004 | 0.03 | 0.2 | 1.9 | 0.17 | <0.02 | 19 | <0.1 | <0.02 | 4.0 | 0.96 | <0.1 |
| MMS001 | Soil | 0.039 | 33.5 | 19.0 | 0.39 | 77.9 | 0.002 | 1 | 1.28 | 0.004 | 0.06 | 0.1 | 2.7 | 0.09 | <0.02 | 21 | 0.5 | <0.02 | 3.5 | 0.66 | <0.1 |
| MMS002 | Soil | 0.044 | 40.9 | 21.9 | 0.54 | 101.3 | 0.003 | <1 | 1.45 | 0.004 | 0.08 | <0.1 | 2.9 | 0.12 | <0.02 | 15 | 0.5 | 0.03 | 4.2 | 0.90 | <0.1 |
| MMS003 | Soil | 0.033 | 34.8 | 19.0 | 0.34 | 107.4 | 0.004 | <1 | 1.48 | 0.004 | 0.06 | 0.1 | 2.9 | 0.13 | <0.02 | 31 | 0.1 | <0.02 | 4.4 | 1.46 | <0.1 |
| MMS004 | Soil | 0.072 | 23.7 | 16.9 | 0.92 | 66.0 | 0.007 | <1 | 1.04 | 0.004 | 0.05 | 0.2 | 2.7 | 0.10 | <0.02 | 38 | 0.3 | 0.03 | 3.0 | 0.74 | <0.1 |
| MMS005 | Soil | 0.114 | 32.1 | 14.5 | 1.21 | 61.7 | 0.006 | 1 | 0.86 | 0.003 | 0.03 | 0.2 | 3.8 | 0.09 | <0.02 | 47 | 0.3 | <0.02 | 2.0 | 0.56 | <0.1 |
| MMS006 | Soil | 0.071 | 23.3 | 15.2 | 0.40 | 58.7 | 0.007 | 1 | 0.93 | 0.003 | 0.04 | 0.1 | 2.1 | 0.09 | <0.02 | 32 | <0.1 | <0.02 | 2.3 | 0.69 | <0.1 |

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

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| MRS001 | Soil | <0.02 | 0.31 | 11.6 | 0.4 | <0.05 | 0.2 | 3.52 | 38.7 | <0.02 | <1 | 0.3 | 8.3 | <10 | <2 |
| MRS002 | Soil | <0.02 | 0.81 | 12.0 | 0.6 | <0.05 | 0.8 | 3.83 | 31.5 | <0.02 | <1 | 0.5 | 10.3 | <10 | <2 |
| MRS003 | Soil | <0.02 | 0.95 | 17.3 | 0.7 | <0.05 | 0.7 | 5.77 | 34.3 | 0.02 | <1 | 0.4 | 20.2 | <10 | <2 |
| MRS004 | Soil | <0.02 | 0.94 | 17.4 | 0.7 | <0.05 | 1.2 | 3.27 | 35.6 | <0.02 | <1 | 0.2 | 12.5 | <10 | <2 |
| MRS005 | Soil | <0.02 | 0.56 | 12.4 | 0.5 | <0.05 | 0.7 | 3.80 | 41.5 | <0.02 | <1 | 0.3 | 11.2 | <10 | <2 |
| MRS006 | Soil | <0.02 | 0.33 | 15.5 | 0.4 | <0.05 | 0.2 | 3.32 | 29.1 | <0.02 | <1 | 0.2 | 4.2 | <10 | <2 |
| MRS007 | Soil | <0.02 | 0.46 | 12.3 | 0.4 | <0.05 | 0.4 | 5.94 | 33.5 | <0.02 | <1 | 0.3 | 8.6 | <10 | <2 |
| MRS008 | Soil | <0.02 | 0.96 | 26.5 | 0.6 | <0.05 | 0.4 | 3.44 | 27.7 | <0.02 | <1 | 0.2 | 8.6 | <10 | <2 |
| MRS009 | Soil | <0.02 | 0.92 | 18.3 | 0.7 | <0.05 | 0.4 | 6.19 | 37.6 | 0.03 | <1 | 0.8 | 12.4 | <10 | <2 |
| MRS010 | Soil | <0.02 | 0.44 | 12.7 | 0.5 | <0.05 | 0.3 | 2.23 | 39.5 | <0.02 | <1 | 0.2 | 7.4 | <10 | <2 |
| MRS011 | Soil | <0.02 | 0.33 | 16.0 | 0.4 | <0.05 | 0.2 | 2.44 | 35.4 | <0.02 | <1 | 0.2 | 6.8 | <10 | <2 |
| MRS012 | Soil | <0.02 | 0.91 | 21.0 | 0.5 | <0.05 | 0.6 | 5.90 | 32.7 | 0.02 | <1 | 0.6 | 10.8 | <10 | <2 |
| MRS013 | Soil | <0.02 | 0.42 | 23.0 | 0.5 | <0.05 | 0.2 | 3.18 | 40.7 | 0.03 | <1 | 0.5 | 11.0 | <10 | <2 |
| MRS014 | Soil | <0.02 | 0.37 | 12.7 | 0.3 | <0.05 | 0.2 | 2.54 | 43.5 | <0.02 | <1 | 0.2 | 6.7 | <10 | <2 |
| MRS015 | Soil | 0.05 | 0.38 | 14.2 | 0.4 | <0.05 | 1.7 | 8.48 | 23.5 | 0.06 | <1 | 0.4 | 7.1 | <10 | 2 |
| MRS016 | Soil | <0.02 | 0.91 | 20.6 | 0.7 | <0.05 | 0.5 | 3.10 | 25.2 | 0.07 | <1 | 0.6 | 13.8 | <10 | <2 |
| MRS017 | Soil | <0.02 | 0.78 | 14.8 | 0.6 | <0.05 | 1.0 | 4.86 | 36.0 | 0.07 | <1 | 0.6 | 9.7 | <10 | <2 |
| MRS018 | Soil | 0.02 | 1.11 | 17.8 | 0.7 | <0.05 | 1.6 | 2.83 | 36.3 | 0.05 | <1 | 0.7 | 11.4 | <10 | <2 |
| MRS019 | Soil | 0.03 | 0.56 | 10.9 | 0.7 | <0.05 | 1.6 | 10.60 | 26.8 | 0.39 | <1 | 0.7 | 8.1 | <10 | <2 |
| MRS020 | Soil | 0.05 | 0.85 | 17.6 | 0.8 | <0.05 | 3.1 | 3.75 | 34.8 | 0.12 | <1 | 0.6 | 14.1 | <10 | <2 |
| MRS021 | Soil | 0.18 | 0.98 | 14.8 | 0.8 | <0.05 | 3.9 | 3.22 | 29.2 | 0.21 | 1 | 0.7 | 12.4 | <10 | <2 |
| MRS022 | Soil | 0.06 | 1.19 | 16.6 | 0.8 | <0.05 | 3.0 | 3.29 | 35.4 | 0.21 | <1 | 0.9 | 12.0 | <10 | <2 |
| MRS023 | Soil | 0.03 | 1.73 | 15.3 | 0.7 | <0.05 | 1.6 | 2.26 | 28.5 | 0.03 | <1 | 0.4 | 11.6 | <10 | <2 |
| MRS024 | Soil | 0.07 | 0.91 | 7.6 | 0.6 | <0.05 | 3.0 | 2.79 | 35.5 | 0.04 | <1 | 0.5 | 11.1 | <10 | <2 |
| MMS001 | Soil | 0.05 | 0.18 | 6.5 | 2.3 | <0.05 | 2.1 | 9.19 | 62.3 | 0.75 | <1 | 0.4 | 20.0 | <10 | <2 |
| MMS002 | Soil | 0.07 | 0.21 | 6.2 | 1.2 | <0.05 | 3.0 | 12.27 | 75.6 | 0.27 | <1 | 0.6 | 23.2 | <10 | <2 |
| MMS003 | Soil | 0.03 | 0.52 | 10.3 | 1.8 | <0.05 | 2.0 | 9.85 | 65.0 | 0.33 | <1 | 0.5 | 19.6 | <10 | <2 |
| MMS004 | Soil | 0.03 | 0.34 | 5.5 | 3.3 | <0.05 | 1.2 | 12.08 | 44.0 | 1.34 | <1 | 0.5 | 13.4 | <10 | <2 |
| MMS005 | Soil | 0.03 | 0.16 | 3.8 | 1.9 | <0.05 | 1.2 | 24.71 | 55.0 | 0.44 | <1 | 0.3 | 11.2 | 13 | <2 |
| MMS006 | Soil | <0.02 | 0.31 | 4.5 | 1.7 | <0.05 | 0.9 | 8.79 | 48.4 | 0.42 | <1 | 0.3 | 12.6 | <10 | <2 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| MMS007 | Soil | 0.007 | 0.64 | 25.89 | 190.95 | >10000 | 2265 | 95.3 | 13.0 | 1924 | 3.71 | 144.3 | 0.7 | 5.7 | 11.2 | 39.7 | 16.80 | 3.85 | 0.36 | 10 | 1.83 |
| MMS008 | Soil | <0.005 | 0.28 | 13.74 | 235.22 | 292.8 | 805 | 29.3 | 12.7 | 1823 | 4.48 | 72.9 | 0.7 | 1.5 | 9.6 | 29.2 | 1.25 | 2.96 | 0.42 | 12 | 1.26 |
| MMS009 | Soil | <0.005 | 0.25 | 17.00 | 115.46 | 224.2 | 528 | 26.0 | 11.2 | 1281 | 2.96 | 45.2 | 0.5 | 2.8 | 8.9 | 107.1 | 1.13 | 2.13 | 0.31 | 7 | 6.09 |
| MMS010 | Soil | <0.005 | 0.32 | 17.70 | 127.63 | 395.3 | 339 | 27.2 | 11.7 | 851 | 3.40 | 44.6 | 0.7 | 1.7 | 9.5 | 41.1 | 1.62 | 1.79 | 0.36 | 10 | 2.04 |
| MMS011 | Soil | <0.005 | 0.45 | 21.76 | 158.97 | 520.8 | 288 | 31.3 | 11.7 | 574 | 3.02 | 36.8 | 0.6 | 1.5 | 12.9 | 27.9 | 1.45 | 1.93 | 0.29 | 9 | 1.89 |
| MMS012 | Soil | <0.005 | 0.63 | 19.35 | 141.94 | 532.9 | 223 | 31.3 | 12.3 | 590 | 2.99 | 34.9 | 0.6 | 1.4 | 13.6 | 13.7 | 1.44 | 1.57 | 0.26 | 11 | 0.61 |
| MMS013 | Soil | <0.005 | 0.92 | 22.23 | 225.37 | 631.5 | 352 | 34.4 | 13.1 | 653 | 3.03 | 37.8 | 0.7 | 2.3 | 11.9 | 28.4 | 1.69 | 1.94 | 0.23 | 12 | 2.17 |
| MMS014 | Soil | <0.005 | 1.45 | 21.75 | 325.15 | 1040.1 | 728 | 34.1 | 9.4 | 507 | 3.01 | 34.6 | 0.8 | 2.0 | 7.3 | 13.5 | 2.77 | 2.48 | 0.22 | 16 | 0.70 |
| MMS015 | Soil | <0.005 | 0.31 | 13.29 | 643.51 | 1297.4 | 750 | 19.8 | 8.1 | 1529 | 2.24 | 39.8 | 0.5 | 1.0 | 2.8 | 74.8 | 4.30 | 1.94 | 0.17 | 13 | 8.57 |
| MMS016 | Soil | <0.005 | 0.42 | 14.73 | 405.11 | 931.3 | 917 | 24.0 | 9.0 | 1968 | 2.69 | 54.1 | 0.6 | 2.0 | 3.8 | 35.8 | 4.39 | 2.40 | 0.20 | 15 | 4.83 |
| MMS017 | Soil | <0.005 | 0.37 | 13.07 | 254.60 | 556.4 | 940 | 23.9 | 9.0 | 1850 | 2.68 | 46.2 | 0.7 | 1.0 | 3.7 | 34.6 | 3.20 | 1.72 | 0.20 | 14 | 4.39 |
| MMS018 | Soil | <0.005 | 0.38 | 12.90 | 145.43 | 609.4 | 434 | 23.5 | 10.3 | 1964 | 3.22 | 25.4 | 0.8 | 0.4 | 4.9 | 27.5 | 1.65 | 0.99 | 0.29 | 22 | 3.24 |
| MMS019 | Soil | <0.005 | 2.57 | 14.12 | 79.63 | 302.0 | 179 | 19.3 | 6.9 | 234 | 2.57 | 20.2 | 0.8 | 0.6 | 6.6 | 8.1 | 0.76 | 1.57 | 0.26 | 26 | 0.13 |
| MMS020 | Soil | <0.005 | 0.41 | 15.25 | 531.21 | 1659.5 | 477 | 28.7 | 9.2 | 886 | 3.24 | 43.1 | 0.7 | 2.0 | 5.9 | 13.8 | 8.90 | 2.67 | 0.26 | 17 | 1.71 |
| MMS021 | Soil | <0.005 | 0.30 | 19.46 | 123.18 | 160.3 | 161 | 35.3 | 13.6 | 902 | 3.93 | 31.5 | 0.9 | 0.9 | 12.3 | 34.5 | 0.22 | 2.15 | 0.34 | 16 | 1.07 |
| MMS022 | Soil | <0.005 | 0.47 | 19.56 | 154.53 | 464.0 | 260 | 35.6 | 13.3 | 1363 | 3.69 | 19.0 | 0.8 | 2.9 | 9.8 | 21.3 | 2.28 | 1.20 | 0.27 | 20 | 1.58 |
| MMS023 | Soil | <0.005 | 0.50 | 11.29 | 65.56 | 300.2 | 209 | 20.7 | 9.2 | 449 | 4.96 | 21.4 | 0.7 | <0.2 | 8.5 | 5.5 | 1.06 | 0.70 | 0.46 | 26 | 0.04 |
| MMS024 | Soil | <0.005 | 0.38 | 16.65 | 167.12 | 1806.0 | 480 | 30.0 | 11.0 | 945 | 3.30 | 28.8 | 0.7 | 1.0 | 3.7 | 77.9 | 4.81 | 0.90 | 0.34 | 14 | 4.88 |
| MMS025 | Soil | <0.005 | 0.36 | 13.14 | 73.85 | 368.1 | 254 | 22.6 | 8.6 | 620 | 3.16 | 24.9 | 0.7 | 1.8 | 2.7 | 16.5 | 1.33 | 0.67 | 0.37 | 21 | 0.64 |
| MMS026 | Soil | <0.005 | 0.66 | 24.43 | 492.61 | 1913.5 | 862 | 45.1 | 12.9 | 4136 | 4.06 | 59.8 | 0.8 | 1.5 | 3.3 | 17.9 | 6.36 | 3.19 | 0.41 | 17 | 1.62 |
| MMS027 | Soil | <0.005 | 0.44 | 10.65 | 80.79 | 517.5 | 198 | 20.2 | 6.8 | 484 | 3.21 | 23.5 | 1.0 | 0.9 | 2.0 | 12.1 | 1.05 | 0.60 | 0.44 | 24 | 0.48 |
| MMS028 | Soil | <0.005 | 0.30 | 4.53 | 28.35 | 66.7 | 111 | 8.0 | 2.5 | 163 | 1.40 | 12.9 | 0.5 | 0.3 | 0.3 | 5.9 | 0.27 | 0.38 | 0.29 | 15 | 0.12 |
| MMS029 | Soil | <0.005 | 0.39 | 13.70 | 429.86 | 1112.8 | 2471 | 23.8 | 9.6 | 6497 | 5.00 | 223.6 | 1.2 | 5.5 | 2.2 | 20.5 | 7.14 | 2.43 | 0.42 | 41 | 1.02 |
| MMS030 | Soil | <0.005 | 0.50 | 10.83 | 166.66 | 243.0 | 1085 | 26.8 | 9.1 | >10000 | 3.18 | 191.8 | 0.9 | 3.3 | 1.5 | 58.2 | 3.00 | 2.69 | 0.14 | 22 | 8.80 |
| MMS031 | Soil | <0.005 | 0.37 | 12.23 | 68.28 | 134.4 | 90 | 25.6 | 10.7 | 502 | 3.72 | 27.4 | 1.3 | 0.3 | 11.4 | 8.0 | 0.36 | 0.83 | 0.42 | 13 | 0.07 |
| MMS032 | Soil | <0.005 | 0.42 | 9.98 | 44.45 | 121.1 | 341 | 16.9 | 7.4 | 463 | 3.49 | 27.0 | 0.7 | 0.3 | 1.2 | 5.8 | 0.24 | 0.62 | 0.45 | 19 | 0.04 |
| MMS033 | Soil | <0.005 | 0.53 | 8.14 | 188.69 | 90.2 | 87 | 14.1 | 6.0 | 312 | 2.23 | 45.1 | 0.4 | 0.6 | 3.1 | 7.0 | 0.29 | 1.25 | 0.24 | 11 | 0.06 |
| MMS034 | Soil | <0.005 | 0.71 | 9.58 | 38.09 | 199.2 | 207 | 17.6 | 7.7 | 403 | 3.60 | 16.1 | 0.8 | 1.2 | 6.9 | 9.9 | 0.86 | 0.60 | 0.45 | 40 | 0.09 |
| MMS035 | Soil | <0.005 | 0.45 | 14.95 | 105.26 | 917.2 | 397 | 28.9 | 13.1 | 608 | 4.07 | 30.3 | 1.0 | <0.2 | 14.1 | 7.2 | 1.46 | 1.16 | 0.38 | 16 | 0.08 |
| MMS036 | Soil | <0.005 | 0.29 | 16.77 | 166.10 | 1178.7 | 305 | 29.5 | 10.6 | 820 | 2.82 | 33.0 | 0.5 | 1.2 | 9.1 | 92.7 | 2.71 | 1.35 | 0.31 | 7 | 8.45 |

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

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Project: RANCHERIA

Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| Unit | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| MDL | | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| MMS007 | Soil | 0.069 | 28.5 | 14.4 | 0.49 | 61.8 | 0.002 | <1 | 0.98 | 0.003 | 0.03 | 0.1 | 2.5 | 0.29 | <0.02 | 23 | 0.2 | <0.02 | 2.7 | 0.52 | <0.1 |
| MMS008 | Soil | 0.051 | 47.2 | 14.9 | 0.49 | 92.0 | 0.003 | 1 | 1.15 | 0.004 | 0.09 | 0.2 | 5.2 | 0.12 | 0.02 | 58 | 0.3 | <0.02 | 2.7 | 0.69 | <0.1 |
| MMS009 | Soil | 0.067 | 25.1 | 10.4 | 0.93 | 63.8 | 0.002 | <1 | 0.81 | 0.004 | 0.09 | <0.1 | 2.2 | 0.13 | <0.02 | 28 | 0.1 | <0.02 | 1.9 | 0.66 | <0.1 |
| MMS010 | Soil | 0.048 | 34.2 | 13.7 | 0.33 | 169.6 | 0.004 | <1 | 1.10 | 0.004 | 0.08 | 0.1 | 3.2 | 0.24 | <0.02 | 45 | 0.1 | <0.02 | 2.7 | 0.78 | <0.1 |
| MMS011 | Soil | 0.076 | 32.5 | 14.3 | 0.32 | 316.3 | 0.003 | <1 | 1.13 | 0.004 | 0.08 | <0.1 | 2.3 | 0.27 | <0.02 | 54 | <0.1 | <0.02 | 3.0 | 0.73 | <0.1 |
| MMS012 | Soil | 0.086 | 35.2 | 15.2 | 0.31 | 242.4 | 0.004 | <1 | 1.14 | 0.005 | 0.07 | <0.1 | 2.4 | 0.28 | <0.02 | 46 | 0.2 | 0.04 | 3.3 | 0.66 | <0.1 |
| MMS013 | Soil | 0.087 | 32.9 | 16.2 | 0.40 | 338.4 | 0.003 | <1 | 1.21 | 0.005 | 0.08 | <0.1 | 2.3 | 0.37 | <0.02 | 56 | <0.1 | <0.02 | 3.0 | 0.59 | <0.1 |
| MMS014 | Soil | 0.082 | 29.1 | 18.4 | 0.40 | 543.0 | 0.003 | <1 | 1.20 | 0.004 | 0.05 | <0.1 | 2.0 | 0.21 | 0.02 | 128 | 0.4 | 0.04 | 3.1 | 0.59 | <0.1 |
| MMS015 | Soil | 0.073 | 14.5 | 11.5 | 1.64 | 1249.7 | 0.006 | <1 | 0.90 | 0.004 | 0.04 | <0.1 | 1.5 | 0.18 | <0.02 | 132 | <0.1 | <0.02 | 2.2 | 0.44 | <0.1 |
| MMS016 | Soil | 0.073 | 19.2 | 13.1 | 1.24 | 165.4 | 0.005 | <1 | 0.90 | 0.003 | 0.04 | 0.1 | 1.6 | 0.19 | <0.02 | 83 | 0.1 | 0.03 | 2.2 | 0.49 | <0.1 |
| MMS017 | Soil | 0.066 | 21.6 | 14.2 | 1.63 | 86.8 | 0.006 | 1 | 0.86 | 0.003 | 0.04 | 0.1 | 2.2 | 0.14 | <0.02 | 61 | 0.1 | <0.02 | 2.1 | 0.50 | <0.1 |
| MMS018 | Soil | 0.053 | 23.9 | 17.8 | 1.80 | 62.4 | 0.012 | 1 | 1.03 | 0.004 | 0.03 | 0.1 | 2.3 | 0.11 | <0.02 | 86 | <0.1 | 0.03 | 2.7 | 0.64 | <0.1 |
| MMS019 | Soil | 0.047 | 26.3 | 18.1 | 0.27 | 93.0 | 0.009 | <1 | 1.10 | 0.003 | 0.04 | 0.1 | 1.4 | 0.10 | <0.02 | 23 | 0.3 | <0.02 | 3.9 | 1.12 | <0.1 |
| MMS020 | Soil | 0.104 | 25.9 | 18.7 | 0.27 | 107.9 | 0.010 | <1 | 1.17 | 0.004 | 0.04 | 0.1 | 3.0 | 1.60 | <0.02 | 124 | <0.1 | <0.02 | 3.4 | 0.95 | <0.1 |
| MMS021 | Soil | 0.040 | 40.4 | 22.6 | 0.59 | 91.2 | 0.004 | <1 | 1.51 | 0.005 | 0.07 | <0.1 | 4.0 | 0.12 | <0.02 | 50 | 0.3 | <0.02 | 4.0 | 1.01 | <0.1 |
| MMS022 | Soil | 0.059 | 29.3 | 24.7 | 0.59 | 212.7 | 0.004 | 1 | 1.73 | 0.006 | 0.09 | 0.1 | 3.1 | 0.24 | 0.02 | 56 | 0.2 | <0.02 | 4.9 | 0.96 | <0.1 |
| MMS023 | Soil | 0.057 | 24.3 | 19.4 | 0.24 | 50.8 | 0.010 | <1 | 1.48 | 0.003 | 0.04 | 0.1 | 1.8 | 0.08 | <0.02 | 16 | <0.1 | <0.02 | 5.0 | 0.78 | <0.1 |
| MMS024 | Soil | 0.110 | 24.7 | 16.9 | 0.53 | 53.9 | 0.006 | <1 | 1.11 | 0.004 | 0.03 | 0.2 | 2.6 | 0.40 | 0.02 | 81 | 0.3 | 0.02 | 2.8 | 0.74 | <0.1 |
| MMS025 | Soil | 0.076 | 24.9 | 20.4 | 0.37 | 59.9 | 0.014 | 1 | 1.27 | 0.005 | 0.03 | 0.2 | 2.5 | 0.48 | 0.03 | 32 | 0.2 | 0.06 | 3.7 | 0.86 | <0.1 |
| MMS026 | Soil | 0.129 | 35.1 | 15.9 | 0.28 | 143.4 | 0.008 | 2 | 1.13 | 0.004 | 0.03 | 0.3 | 3.9 | 2.48 | 0.04 | 113 | 0.5 | <0.02 | 3.4 | 0.91 | <0.1 |
| MMS027 | Soil | 0.117 | 28.9 | 21.9 | 0.36 | 83.1 | 0.013 | 1 | 1.63 | 0.004 | 0.04 | 0.2 | 2.3 | 0.24 | 0.03 | 35 | 0.2 | <0.02 | 5.1 | 1.20 | <0.1 |
| MMS028 | Soil | 0.055 | 18.6 | 11.9 | 0.18 | 76.3 | 0.005 | <1 | 0.94 | 0.004 | 0.02 | <0.1 | 0.3 | 0.08 | 0.02 | 12 | 0.2 | 0.04 | 3.9 | 0.65 | <0.1 |
| MMS029 | Soil | 0.151 | 25.6 | 26.8 | 0.48 | 208.5 | 0.012 | <1 | 1.67 | 0.004 | 0.03 | 0.2 | 2.4 | 0.15 | 0.08 | 84 | 0.6 | 0.08 | 4.5 | 0.90 | <0.1 |
| MMS030 | Soil | 0.102 | 17.1 | 11.6 | 2.93 | 236.2 | 0.002 | 3 | 0.62 | 0.006 | 0.04 | 0.1 | 1.0 | 0.18 | 0.08 | 82 | 0.7 | 0.03 | 1.8 | 0.28 | <0.1 |
| MMS031 | Soil | 0.055 | 37.0 | 18.2 | 0.28 | 61.5 | 0.004 | <1 | 1.38 | 0.004 | 0.04 | 0.2 | 3.1 | 0.08 | <0.02 | 25 | 0.3 | 0.03 | 3.1 | 0.95 | <0.1 |
| MMS032 | Soil | 0.068 | 19.4 | 14.6 | 0.25 | 27.3 | 0.011 | <1 | 0.91 | 0.003 | 0.02 | 0.1 | 0.6 | 0.04 | <0.02 | 15 | 0.1 | 0.03 | 3.4 | 0.82 | <0.1 |
| MMS033 | Soil | 0.062 | 19.4 | 10.7 | 0.14 | 43.2 | 0.004 | <1 | 0.68 | 0.004 | 0.04 | <0.1 | 0.7 | 0.06 | <0.02 | 14 | <0.1 | <0.02 | 2.4 | 0.64 | <0.1 |
| MMS034 | Soil | 0.046 | 25.1 | 24.4 | 0.39 | 71.8 | 0.031 | 1 | 1.47 | 0.004 | 0.04 | 0.3 | 1.9 | 0.09 | <0.02 | 9 | 0.2 | 0.03 | 6.1 | 1.16 | <0.1 |
| MMS035 | Soil | 0.039 | 36.7 | 20.6 | 0.35 | 65.9 | 0.007 | <1 | 1.36 | 0.004 | 0.04 | 0.2 | 2.7 | 0.21 | <0.02 | 24 | 0.1 | 0.03 | 3.2 | 0.84 | <0.1 |
| MMS036 | Soil | 0.091 | 22.9 | 10.9 | 0.53 | 93.1 | 0.003 | <1 | 0.74 | 0.003 | 0.04 | <0.1 | 2.9 | 0.41 | <0.02 | 39 | 0.3 | <0.02 | 2.1 | 0.34 | <0.1 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| MMS007 | Soil | 0.02 | 0.08 | 3.4 | 1.5 | <0.05 | 0.8 | 16.17 | 55.1 | 0.24 | <1 | 0.2 | 14.0 | 21 | <2 |
| MMS008 | Soil | 0.04 | 0.24 | 6.8 | 1.4 | <0.05 | 1.8 | 38.73 | 88.6 | 0.06 | <1 | 0.7 | 10.1 | <10 | <2 |
| MMS009 | Soil | 0.04 | 0.13 | 5.6 | 0.9 | <0.05 | 1.5 | 17.25 | 53.0 | 0.03 | <1 | 0.4 | 8.4 | 24 | <2 |
| MMS010 | Soil | 0.05 | 0.33 | 7.0 | 1.1 | <0.05 | 1.5 | 20.88 | 66.1 | 0.04 | <1 | 0.3 | 10.7 | <10 | <2 |
| MMS011 | Soil | 0.04 | 0.27 | 6.3 | 1.0 | <0.05 | 1.4 | 11.23 | 62.5 | 0.03 | <1 | 0.2 | 13.3 | <10 | <2 |
| MMS012 | Soil | 0.04 | 0.32 | 5.9 | 0.8 | <0.05 | 1.7 | 10.84 | 68.0 | <0.02 | <1 | 0.5 | 14.5 | <10 | <2 |
| MMS013 | Soil | 0.04 | 0.24 | 5.2 | 0.9 | <0.05 | 1.4 | 10.45 | 62.2 | 0.02 | <1 | 0.2 | 15.8 | <10 | <2 |
| MMS014 | Soil | 0.04 | 0.20 | 5.4 | 1.3 | <0.05 | 1.3 | 11.17 | 51.0 | 0.02 | <1 | 0.3 | 16.6 | <10 | <2 |
| MMS015 | Soil | 0.02 | 0.18 | 4.0 | 2.0 | <0.05 | 0.7 | 9.87 | 28.1 | 0.02 | <1 | 0.3 | 9.5 | <10 | <2 |
| MMS016 | Soil | 0.03 | 0.16 | 4.7 | 2.9 | <0.05 | 0.8 | 12.61 | 36.7 | 0.03 | <1 | 0.2 | 11.4 | 10 | <2 |
| MMS017 | Soil | 0.04 | 0.17 | 4.5 | 1.9 | <0.05 | 0.8 | 16.09 | 38.7 | 0.03 | <1 | 0.5 | 10.9 | <10 | <2 |
| MMS018 | Soil | <0.02 | 0.32 | 5.2 | 0.7 | <0.05 | 0.9 | 12.78 | 44.8 | 0.04 | <1 | 0.4 | 15.6 | <10 | <2 |
| MMS019 | Soil | <0.02 | 0.64 | 8.6 | 0.8 | <0.05 | 0.5 | 3.52 | 50.1 | 0.03 | <1 | 0.4 | 18.2 | <10 | <2 |
| MMS020 | Soil | <0.02 | 0.39 | 7.0 | 0.9 | <0.05 | 0.7 | 18.71 | 44.5 | 0.04 | <1 | 0.3 | 11.2 | <10 | <2 |
| MMS021 | Soil | 0.06 | 0.23 | 7.0 | 0.5 | <0.05 | 1.9 | 24.86 | 75.1 | 0.05 | <1 | 0.6 | 20.9 | <10 | <2 |
| MMS022 | Soil | 0.05 | 0.31 | 9.0 | 0.8 | <0.05 | 1.5 | 16.31 | 57.7 | 0.05 | <1 | 0.4 | 21.1 | <10 | <2 |
| MMS023 | Soil | <0.02 | 0.77 | 6.0 | 0.8 | <0.05 | 0.7 | 3.79 | 49.6 | 0.05 | <1 | 0.4 | 14.0 | <10 | <2 |
| MMS024 | Soil | 0.03 | 0.22 | 5.5 | 0.4 | <0.05 | 0.8 | 18.81 | 46.0 | 0.02 | <1 | 0.7 | 13.9 | <10 | <2 |
| MMS025 | Soil | <0.02 | 0.50 | 7.5 | 0.5 | <0.05 | 0.7 | 14.21 | 45.4 | 0.05 | <1 | 0.4 | 14.1 | <10 | <2 |
| MMS026 | Soil | <0.02 | 0.31 | 5.7 | 1.8 | <0.05 | 1.1 | 33.25 | 68.1 | 0.07 | <1 | 1.1 | 11.1 | <10 | <2 |
| MMS027 | Soil | <0.02 | 0.53 | 6.0 | 0.8 | <0.05 | 0.3 | 15.15 | 55.4 | 0.04 | <1 | 0.7 | 16.7 | <10 | <2 |
| MMS028 | Soil | <0.02 | 0.16 | 4.7 | 1.1 | <0.05 | 0.1 | 2.37 | 38.1 | 0.02 | <1 | 0.2 | 9.5 | <10 | <2 |
| MMS029 | Soil | 0.03 | 0.44 | 5.6 | 4.8 | <0.05 | 1.3 | 21.31 | 49.7 | 0.49 | <1 | 0.8 | 14.0 | <10 | <2 |
| MMS030 | Soil | 0.02 | 0.10 | 3.9 | 1.0 | <0.05 | 0.8 | 14.48 | 30.4 | 0.04 | <1 | 0.3 | 7.5 | <10 | <2 |
| MMS031 | Soil | 0.02 | 0.29 | 6.7 | 0.5 | <0.05 | 1.0 | 20.81 | 89.3 | 0.04 | <1 | 0.4 | 15.6 | <10 | <2 |
| MMS032 | Soil | <0.02 | 0.29 | 4.3 | 0.4 | <0.05 | 0.2 | 3.96 | 41.4 | 0.02 | <1 | 0.3 | 12.9 | <10 | <2 |
| MMS033 | Soil | <0.02 | 0.19 | 6.0 | 1.5 | <0.05 | 0.2 | 3.49 | 40.7 | 0.03 | <1 | 0.1 | 5.4 | <10 | <2 |
| MMS034 | Soil | <0.02 | 0.94 | 8.8 | 0.8 | <0.05 | 0.4 | 4.40 | 53.2 | 0.04 | <1 | 0.4 | 20.1 | <10 | <2 |
| MMS035 | Soil | 0.02 | 0.40 | 5.8 | 0.5 | <0.05 | 1.2 | 7.92 | 88.4 | 0.03 | <1 | 0.6 | 16.9 | <10 | <2 |
| MMS036 | Soil | 0.04 | 0.12 | 3.4 | 0.6 | <0.05 | 1.3 | 14.10 | 45.4 | 0.02 | <1 | 0.2 | 10.4 | <10 | <2 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| | | Method | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Analyte | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | Unit | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | MDL | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| MMS037 | Soil | | <0.005 | 0.38 | 17.34 | 261.58 | 1500.3 | 817 | 32.5 | 12.0 | 1709 | 3.97 | 42.7 | 0.9 | 1.6 | 5.2 | 21.9 | 4.11 | 1.83 | 0.50 | 14 | 1.44 |
| MMS038 | Soil | | <0.005 | 0.33 | 15.87 | 111.28 | 404.3 | 509 | 30.0 | 10.8 | 1057 | 3.49 | 40.8 | 0.7 | 1.4 | 5.2 | 20.9 | 1.23 | 1.41 | 0.41 | 11 | 2.04 |
| MMS039 | Soil | | <0.005 | 0.46 | 14.11 | 77.86 | 620.8 | 723 | 28.1 | 10.6 | 944 | 3.70 | 24.5 | 1.0 | 0.7 | 3.5 | 13.8 | 3.32 | 0.67 | 0.42 | 24 | 0.71 |
| MMS040 | Soil | | <0.005 | 1.23 | 25.71 | 965.13 | 4161.7 | 916 | 49.3 | 10.5 | 3160 | 3.95 | 60.6 | 1.1 | 3.1 | 6.0 | 11.8 | 15.59 | 5.29 | 0.27 | 14 | 1.18 |
| MMS041 | Soil | | <0.005 | 0.37 | 21.35 | 166.03 | 1769.2 | 305 | 35.6 | 13.1 | 1071 | 2.66 | 38.7 | 0.6 | 1.1 | 11.2 | 95.9 | 4.41 | 1.67 | 0.32 | 7 | 8.08 |
| MMS042 | Soil | | <0.005 | 0.38 | 23.71 | 218.29 | 1427.9 | 428 | 36.3 | 13.2 | 1081 | 2.93 | 64.5 | 0.7 | 3.4 | 11.8 | 83.3 | 4.33 | 2.02 | 0.34 | 7 | 7.67 |
| MMS043 | Soil | | <0.005 | 0.37 | 19.48 | 185.19 | 1294.8 | 417 | 33.9 | 12.5 | 1073 | 3.20 | 41.1 | 0.6 | 0.4 | 7.7 | 71.3 | 2.93 | 1.49 | 0.33 | 10 | 6.87 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| MMS037 | Soil | 0.080 | 34.8 | 16.1 | 0.37 | 97.4 | 0.004 | <1 | 1.18 | 0.004 | 0.04 | 0.2 | 3.7 | 0.59 | 0.03 | 105 | 0.3 | <0.02 | 3.2 | 0.73 | <0.1 |
| MMS038 | Soil | 0.075 | 30.7 | 15.1 | 0.46 | 49.5 | 0.004 | <1 | 0.99 | 0.004 | 0.04 | 0.2 | 3.1 | 0.46 | 0.03 | 82 | 0.5 | <0.02 | 2.7 | 0.59 | <0.1 |
| MMS039 | Soil | 0.125 | 33.2 | 22.0 | 0.40 | 100.7 | 0.010 | <1 | 1.74 | 0.004 | 0.03 | 0.2 | 3.5 | 0.30 | 0.02 | 70 | 0.2 | <0.02 | 5.1 | 1.08 | <0.1 |
| MMS040 | Soil | 0.115 | 31.0 | 11.7 | 0.45 | 665.3 | 0.003 | 2 | 0.85 | 0.002 | 0.03 | 0.1 | 1.9 | 0.28 | 0.04 | 144 | 0.3 | 0.05 | 2.5 | 0.44 | <0.1 |
| MMS041 | Soil | 0.071 | 26.7 | 9.7 | 0.37 | 117.4 | 0.003 | <1 | 0.72 | 0.006 | 0.09 | 0.1 | 2.7 | 0.56 | <0.02 | 39 | 0.2 | <0.02 | 1.9 | 0.47 | <0.1 |
| MMS042 | Soil | 0.093 | 28.5 | 11.7 | 0.40 | 74.0 | 0.004 | 1 | 0.78 | 0.005 | 0.09 | 0.1 | 2.7 | 0.68 | <0.02 | 33 | 0.2 | <0.02 | 2.2 | 0.60 | <0.1 |
| MMS043 | Soil | 0.100 | 25.7 | 14.0 | 0.47 | 72.1 | 0.005 | 1 | 0.93 | 0.005 | 0.06 | 0.1 | 2.6 | 0.67 | <0.02 | 54 | 0.2 | 0.03 | 2.8 | 0.58 | <0.1 |

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Project: RANCHERIA
Report Date: December 02, 2015



# CERTIFICATE OF ANALYSIS SMI15000115.1

| Method | | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| MDL | | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| MMS037 | Soil | 0.03 | 0.17 | 5.1 | 0.8 | <0.05 | 1.5 | 27.50 | 67.7 | 0.05 | <1 | 0.5 | 11.4 | <10 | <2 |
| MMS038 | Soil | 0.04 | 0.16 | 4.3 | 0.6 | <0.05 | 1.5 | 24.37 | 56.1 | 0.03 | <1 | 0.5 | 11.7 | <10 | <2 |
| MMS039 | Soil | <0.02 | 0.48 | 5.7 | 0.8 | <0.05 | 0.4 | 19.47 | 67.8 | 0.06 | <1 | 0.8 | 22.4 | <10 | <2 |
| MMS040 | Soil | 0.04 | 0.07 | 2.5 | 4.8 | <0.05 | 1.4 | 29.00 | 56.6 | 0.18 | <1 | 0.7 | 9.3 | <10 | <2 |
| MMS041 | Soil | 0.02 | 0.10 | 4.4 | 0.7 | <0.05 | 1.3 | 15.70 | 59.0 | 0.02 | <1 | 0.3 | 8.5 | 11 | <2 |
| MMS042 | Soil | 0.02 | 0.12 | 4.9 | 0.9 | <0.05 | 1.3 | 14.07 | 62.8 | 0.03 | 1 | 0.4 | 11.9 | <10 | <2 |
| MMS043 | Soil | 0.03 | 0.18 | 5.2 | 0.7 | <0.05 | 1.1 | 15.98 | 53.1 | 0.04 | <1 | 0.3 | 11.8 | <10 | <2 |

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# QUALITY CONTROL REPORT SMI15000115.1

| | Method | FA430 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppm | % | ppm | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | MDL | 0.005 | 0.01 | 0.01 | 0.01 | 0.1 | 2 | 0.1 | 0.1 | 1 | 0.01 | 0.1 | 0.1 | 0.2 | 0.1 | 0.5 | 0.01 | 0.02 | 0.02 | 2 | 0.01 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| ARS001 | Soil | <0.005 | 0.87 | 9.43 | 13.53 | 56.6 | 235 | 8.6 | 2.0 | 82 | 0.99 | 2.1 | 0.6 | 2.5 | 0.1 | 9.3 | 0.25 | 0.61 | 0.21 | 30 | 0.03 |
| REP ARS001 | QC | | 0.92 | 9.45 | 13.31 | 58.5 | 247 | 8.7 | 2.0 | 82 | 1.00 | 1.7 | 0.5 | 1.5 | 0.2 | 9.5 | 0.28 | 0.53 | 0.19 | 31 | 0.03 |
| ARS018 | Soil | <0.005 | 2.26 | 6.14 | 59.84 | 233.6 | 306 | 13.2 | 5.0 | 243 | 1.72 | 2.9 | 0.5 | 1.9 | 3.5 | 7.6 | 0.75 | 0.71 | 0.18 | 41 | 0.09 |
| REP ARS018 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| AMS008 | Soil | <0.005 | 0.23 | 17.93 | 49.09 | 192.2 | 220 | 33.8 | 14.2 | 1118 | 3.61 | 32.9 | 0.5 | 0.7 | 10.1 | 31.5 | 0.67 | 1.32 | 0.44 | 9 | 1.80 |
| REP AMS008 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| AMS010 | Soil | <0.005 | 0.19 | 17.78 | 58.12 | 176.0 | 177 | 29.8 | 13.0 | 828 | 3.21 | 24.1 | 0.5 | 3.1 | 9.6 | 53.7 | 0.55 | 1.29 | 0.47 | 7 | 3.09 |
| REP AMS010 | QC | | 0.22 | 18.00 | 57.81 | 174.0 | 172 | 30.0 | 13.1 | 869 | 3.26 | 24.8 | 0.5 | 2.2 | 9.8 | 52.4 | 0.58 | 1.35 | 0.46 | 7 | 3.14 |
| MRS013 | Soil | 0.006 | 1.68 | 10.01 | 26.06 | 114.9 | 61 | 16.2 | 5.0 | 214 | 1.40 | 3.3 | 0.6 | 1.0 | 1.2 | 9.4 | 0.57 | 0.72 | 0.18 | 26 | 0.09 |
| REP MRS013 | QC | | 1.52 | 10.08 | 26.05 | 112.2 | 61 | 16.8 | 5.1 | 216 | 1.41 | 3.9 | 0.7 | 1.4 | 1.1 | 9.5 | 0.54 | 0.68 | 0.17 | 26 | 0.08 |
| MMS011 | Soil | <0.005 | 0.45 | 21.76 | 158.97 | 520.8 | 288 | 31.3 | 11.7 | 574 | 3.02 | 36.8 | 0.6 | 1.5 | 12.9 | 27.9 | 1.45 | 1.93 | 0.29 | 9 | 1.89 |
| REP MMS011 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| MMS025 | Soil | <0.005 | 0.36 | 13.14 | 73.85 | 368.1 | 254 | 22.6 | 8.6 | 620 | 3.16 | 24.9 | 0.7 | 1.8 | 2.7 | 16.5 | 1.33 | 0.67 | 0.37 | 21 | 0.64 |
| REP MMS025 | QC | | 0.40 | 12.87 | 76.23 | 360.1 | 274 | 23.1 | 8.8 | 636 | 3.17 | 25.3 | 0.7 | 0.8 | 2.6 | 16.8 | 1.33 | 0.74 | 0.38 | 20 | 0.65 |
| MMS028 | Soil | <0.005 | 0.30 | 4.53 | 28.35 | 66.7 | 111 | 8.0 | 2.5 | 163 | 1.40 | 12.9 | 0.5 | 0.3 | 0.3 | 5.9 | 0.27 | 0.38 | 0.29 | 15 | 0.12 |
| REP MMS028 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | | 14.99 | 145.28 | 150.74 | 366.0 | 1960 | 73.3 | 12.2 | 887 | 2.74 | 45.1 | 2.8 | 73.4 | 7.8 | 66.1 | 2.68 | 9.79 | 12.34 | 42 | 1.06 |
| STD DS10 | Standard | | 14.56 | 148.61 | 150.81 | 375.1 | 1913 | 71.2 | 12.4 | 858 | 2.77 | 45.8 | 2.8 | 67.7 | 7.8 | 66.6 | 2.47 | 9.53 | 12.22 | 41 | 1.05 |
| STD DS10 | Standard | | 13.72 | 152.31 | 149.19 | 384.7 | 1931 | 73.5 | 12.5 | 875 | 2.76 | 45.8 | 2.7 | 66.2 | 7.5 | 63.7 | 2.49 | 9.17 | 12.12 | 42 | 1.06 |
| STD DS10 | Standard | | 14.62 | 156.36 | 149.21 | 378.8 | 1992 | 73.2 | 13.0 | 870 | 2.76 | 43.9 | 2.7 | 67.0 | 7.5 | 67.1 | 2.64 | 9.98 | 12.02 | 42 | 1.08 |
| STD OXC129 | Standard | | 1.20 | 25.86 | 6.29 | 38.1 | 30 | 71.9 | 18.3 | 393 | 2.88 | 0.6 | 0.7 | 192.4 | 1.8 | 174.5 | 0.02 | 0.04 | <0.02 | 46 | 0.56 |
| STD OXC129 | Standard | | 1.31 | 25.59 | 6.12 | 39.9 | 16 | 75.8 | 18.8 | 418 | 3.02 | 0.6 | 0.7 | 191.0 | 1.9 | 175.2 | 0.04 | 0.04 | <0.02 | 49 | 0.64 |
| STD OXC129 | Standard | | 1.34 | 28.27 | 6.50 | 42.3 | 21 | 80.1 | 20.8 | 421 | 3.02 | 0.5 | 0.7 | 198.3 | 1.8 | 178.9 | 0.03 | 0.04 | <0.02 | 49 | 0.64 |
| STD OXC129 | Standard | | 1.30 | 28.26 | 6.64 | 44.8 | 15 | 82.4 | 21.1 | 436 | 3.00 | 0.5 | 0.7 | 199.6 | 1.8 | 180.3 | 0.05 | 0.04 | <0.02 | 50 | 0.64 |
| STD OXD108 | Standard | 0.411 | | | | | | | | | | | | | | | | | | | |
| STD OXD108 | Standard | 0.420 | | | | | | | | | | | | | | | | | | | |
| STD OXI121 | Standard | 1.834 | | | | | | | | | | | | | | | | | | | |

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# QUALITY CONTROL REPORT SMI15000115.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Sc | Tl | S | Hg | Se | Te | Ga | Cs | Ge |
| | Unit | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | % | ppb | ppm | ppm | ppm | ppm | ppm |
| | MDL | 0.001 | 0.5 | 0.5 | 0.01 | 0.5 | 0.001 | 1 | 0.01 | 0.001 | 0.01 | 0.1 | 0.1 | 0.02 | 0.02 | 5 | 0.1 | 0.02 | 0.1 | 0.02 | 0.1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| ARS001 | Soil | 0.061 | 16.8 | 11.9 | 0.08 | 132.5 | 0.005 | 1 | 0.98 | 0.003 | 0.06 | 0.1 | 0.2 | 0.18 | 0.03 | 22 | <0.1 | <0.02 | 3.5 | 1.05 | <0.1 |
| REP ARS001 | QC | 0.061 | 16.9 | 12.3 | 0.08 | 128.8 | 0.005 | 1 | 0.99 | 0.003 | 0.06 | <0.1 | 0.2 | 0.18 | 0.04 | 20 | 0.2 | <0.02 | 3.7 | 1.04 | <0.1 |
| ARS018 | Soil | 0.022 | 15.8 | 21.1 | 0.24 | 159.3 | 0.040 | 2 | 1.12 | 0.005 | 0.06 | 0.2 | 1.8 | 0.10 | <0.02 | 9 | <0.1 | <0.02 | 4.7 | 0.80 | <0.1 |
| REP ARS018 | QC | | | | | | | | | | | | | | | | | | | | |
| AMS008 | Soil | 0.075 | 31.2 | 15.4 | 0.64 | 66.6 | 0.004 | <1 | 0.98 | 0.004 | 0.07 | 0.2 | 2.6 | 0.06 | <0.02 | 9 | 0.2 | 0.04 | 2.7 | 0.52 | <0.1 |
| REP AMS008 | QC | | | | | | | | | | | | | | | | | | | | |
| AMS010 | Soil | 0.060 | 26.9 | 12.3 | 0.64 | 51.9 | 0.003 | <1 | 0.79 | 0.003 | 0.05 | 0.1 | 2.4 | 0.05 | <0.02 | 21 | 0.3 | <0.02 | 2.1 | 0.40 | <0.1 |
| REP AMS010 | QC | 0.058 | 27.0 | 12.8 | 0.65 | 53.2 | 0.003 | <1 | 0.81 | 0.004 | 0.05 | <0.1 | 2.4 | 0.05 | <0.02 | 20 | <0.1 | <0.02 | 2.1 | 0.40 | <0.1 |
| MRS013 | Soil | 0.038 | 22.4 | 15.7 | 0.23 | 260.8 | 0.016 | 1 | 0.82 | 0.004 | 0.10 | 0.2 | 1.2 | 0.15 | <0.02 | 16 | 0.2 | <0.02 | 3.3 | 1.08 | <0.1 |
| REP MRS013 | QC | 0.036 | 22.5 | 15.8 | 0.23 | 273.8 | 0.015 | 2 | 0.83 | 0.004 | 0.10 | 0.3 | 1.2 | 0.15 | <0.02 | 12 | 0.3 | <0.02 | 3.4 | 1.04 | <0.1 |
| MMS011 | Soil | 0.076 | 32.5 | 14.3 | 0.32 | 316.3 | 0.003 | <1 | 1.13 | 0.004 | 0.08 | <0.1 | 2.3 | 0.27 | <0.02 | 54 | <0.1 | <0.02 | 3.0 | 0.73 | <0.1 |
| REP MMS011 | QC | | | | | | | | | | | | | | | | | | | | |
| MMS025 | Soil | 0.076 | 24.9 | 20.4 | 0.37 | 59.9 | 0.014 | 1 | 1.27 | 0.005 | 0.03 | 0.2 | 2.5 | 0.48 | 0.03 | 32 | 0.2 | 0.06 | 3.7 | 0.86 | <0.1 |
| REP MMS025 | QC | 0.081 | 27.1 | 21.0 | 0.38 | 62.8 | 0.014 | <1 | 1.28 | 0.005 | 0.03 | 0.2 | 2.6 | 0.50 | 0.03 | 34 | 0.3 | 0.05 | 3.6 | 0.93 | <0.1 |
| MMS028 | Soil | 0.055 | 18.6 | 11.9 | 0.18 | 76.3 | 0.005 | <1 | 0.94 | 0.004 | 0.02 | <0.1 | 0.3 | 0.08 | 0.02 | 12 | 0.2 | 0.04 | 3.9 | 0.65 | <0.1 |
| REP MMS028 | QC | | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 | Standard | 0.076 | 17.4 | 54.0 | 0.78 | 357.3 | 0.081 | 8 | 1.06 | 0.073 | 0.34 | 3.2 | 2.8 | 5.10 | 0.27 | 307 | 2.7 | 5.02 | 4.6 | 2.74 | <0.1 |
| STD DS10 | Standard | 0.074 | 17.8 | 53.4 | 0.77 | 349.1 | 0.078 | 5 | 1.05 | 0.070 | 0.34 | 3.5 | 2.9 | 5.18 | 0.27 | 304 | 2.5 | 4.96 | 4.3 | 2.72 | <0.1 |
| STD DS10 | Standard | 0.078 | 17.4 | 54.3 | 0.77 | 355.7 | 0.077 | 8 | 1.04 | 0.070 | 0.34 | 3.4 | 2.8 | 5.01 | 0.27 | 280 | 2.1 | 5.18 | 4.3 | 2.62 | <0.1 |
| STD DS10 | Standard | 0.075 | 17.3 | 55.5 | 0.77 | 348.6 | 0.078 | 6 | 1.06 | 0.072 | 0.34 | 3.3 | 2.9 | 5.04 | 0.27 | 271 | 2.1 | 4.90 | 4.3 | 2.72 | <0.1 |
| STD OXC129 | Standard | 0.098 | 11.6 | 45.9 | 1.44 | 46.0 | 0.354 | 2 | 1.45 | 0.570 | 0.37 | <0.1 | 0.8 | 0.03 | <0.02 | <5 | <0.1 | <0.02 | 5.0 | 0.15 | <0.1 |
| STD OXC129 | Standard | 0.099 | 11.9 | 50.8 | 1.49 | 45.9 | 0.403 | <1 | 1.55 | 0.589 | 0.38 | <0.1 | 1.2 | 0.04 | <0.02 | 7 | <0.1 | <0.02 | 5.1 | 0.16 | <0.1 |
| STD OXC129 | Standard | 0.101 | 12.6 | 53.4 | 1.50 | 47.4 | 0.398 | 2 | 1.57 | 0.595 | 0.41 | <0.1 | 1.3 | 0.04 | <0.02 | <5 | <0.1 | <0.02 | 5.4 | 0.17 | <0.1 |
| STD OXC129 | Standard | 0.097 | 12.9 | 54.9 | 1.56 | 49.8 | 0.411 | <1 | 1.60 | 0.617 | 0.40 | <0.1 | 1.0 | 0.04 | <0.02 | <5 | <0.1 | <0.02 | 5.5 | 0.17 | <0.1 |
| STD OXD108 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXD108 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXI121 | Standard | | | | | | | | | | | | | | | | | | | | |

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Project: RANCHERIA
Report Date: December 02, 2015



# QUALITY CONTROL REPORT SMI15000115.1

| | Method | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 | AQ251 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Hf | Nb | Rb | Sn | Ta | Zr | Y | Ce | In | Re | Be | Li | Pd | Pt |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppb | ppm | ppm | ppb | ppb |
| | MDL | 0.02 | 0.02 | 0.1 | 0.1 | 0.05 | 0.1 | 0.01 | 0.1 | 0.02 | 1 | 0.1 | 0.1 | 10 | 2 |
| Pulp Duplicates | | | | | | | | | | | | | | | |
| ARS001 | Soil | <0.02 | 0.20 | 11.9 | 0.5 | <0.05 | 0.2 | 1.80 | 31.3 | 0.03 | <1 | 0.1 | 3.6 | <10 | <2 |
| REP ARS001 | QC | <0.02 | 0.24 | 11.6 | 0.5 | <0.05 | 0.2 | 1.81 | 30.9 | <0.02 | <1 | 0.2 | 3.7 | <10 | <2 |
| ARS018 | Soil | <0.02 | 1.27 | 10.5 | 0.8 | <0.05 | 0.7 | 2.20 | 30.2 | 0.02 | <1 | 0.3 | 11.1 | <10 | <2 |
| REP ARS018 | QC | | | | | | | | | | | | | | |
| AMS008 | Soil | 0.04 | 0.12 | 4.7 | 0.5 | <0.05 | 1.4 | 18.65 | 68.3 | 0.03 | <1 | 0.4 | 13.5 | <10 | <2 |
| REP AMS008 | QC | | | | | | | | | | | | | | |
| AMS010 | Soil | 0.05 | 0.13 | 3.4 | 0.4 | <0.05 | 1.6 | 18.57 | 56.9 | 0.06 | <1 | 0.5 | 10.5 | <10 | <2 |
| REP AMS010 | QC | 0.04 | 0.13 | 3.4 | 0.5 | <0.05 | 1.7 | 19.15 | 58.7 | 0.03 | <1 | 0.4 | 11.2 | <10 | <2 |
| MRS013 | Soil | <0.02 | 0.42 | 23.0 | 0.5 | <0.05 | 0.2 | 3.18 | 40.7 | 0.03 | <1 | 0.5 | 11.0 | <10 | <2 |
| REP MRS013 | QC | <0.02 | 0.41 | 22.6 | 0.5 | <0.05 | 0.1 | 3.07 | 41.0 | <0.02 | <1 | 0.6 | 11.2 | <10 | <2 |
| MMS011 | Soil | 0.04 | 0.27 | 6.3 | 1.0 | <0.05 | 1.4 | 11.23 | 62.5 | 0.03 | <1 | 0.2 | 13.3 | <10 | <2 |
| REP MMS011 | QC | | | | | | | | | | | | | | |
| MMS025 | Soil | <0.02 | 0.50 | 7.5 | 0.5 | <0.05 | 0.7 | 14.21 | 45.4 | 0.05 | <1 | 0.4 | 14.1 | <10 | <2 |
| REP MMS025 | QC | <0.02 | 0.52 | 7.8 | 0.5 | <0.05 | 0.7 | 14.69 | 46.8 | 0.03 | <1 | 0.4 | 15.0 | <10 | <2 |
| MMS028 | Soil | <0.02 | 0.16 | 4.7 | 1.1 | <0.05 | 0.1 | 2.37 | 38.1 | 0.02 | <1 | 0.2 | 9.5 | <10 | <2 |
| REP MMS028 | QC | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | |
| STD DS10 | Standard | 0.06 | 1.50 | 27.8 | 1.8 | <0.05 | 2.5 | 7.73 | 36.7 | 0.26 | 52 | 0.6 | 19.5 | 103 | 179 |
| STD DS10 | Standard | 0.05 | 1.45 | 27.6 | 1.6 | <0.05 | 2.4 | 7.69 | 36.2 | 0.26 | 48 | 0.8 | 20.3 | 111 | 180 |
| STD DS10 | Standard | 0.05 | 1.51 | 27.1 | 1.5 | <0.05 | 2.4 | 7.34 | 34.8 | 0.23 | 40 | 0.9 | 19.8 | 107 | 167 |
| STD DS10 | Standard | 0.05 | 1.49 | 28.1 | 1.7 | <0.05 | 2.5 | 7.93 | 34.9 | 0.26 | 51 | 0.8 | 18.8 | 90 | 173 |
| STD OXC129 | Standard | 0.25 | 1.64 | 15.4 | 0.7 | <0.05 | 19.0 | 4.27 | 22.0 | <0.02 | <1 | 0.6 | 1.8 | <10 | <2 |
| STD OXC129 | Standard | 0.30 | 1.65 | 15.8 | 0.8 | <0.05 | 22.1 | 4.40 | 22.4 | <0.02 | <1 | 0.5 | 2.1 | <10 | <2 |
| STD OXC129 | Standard | 0.27 | 1.52 | 16.0 | 0.7 | <0.05 | 20.0 | 4.36 | 22.7 | <0.02 | <1 | 0.6 | 2.0 | <10 | <2 |
| STD OXC129 | Standard | 0.28 | 1.35 | 16.4 | 0.8 | <0.05 | 21.0 | 4.40 | 23.2 | <0.02 | <1 | 0.9 | 2.2 | <10 | <2 |
| STD OXD108 | Standard | | | | | | | | | | | | | | |
| STD OXD108 | Standard | | | | | | | | | | | | | | |
| STD OXI121 | Standard | | | | | | | | | | | | | | |

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# QUALITY CONTROL REPORT SMI15000115.1

| | | FA430 Au ppm 0.005 | AQ251 Mo ppm 0.01 | AQ251 Cu ppm 0.01 | AQ251 Pb ppm 0.01 | AQ251 Zn ppm 0.1 | AQ251 Ag ppb 2 | AQ251 Ni ppm 0.1 | AQ251 Co ppm 0.1 | AQ251 Mn ppm 1 | AQ251 Fe % 0.01 | AQ251 As ppm 0.1 | AQ251 U ppm 0.1 | AQ251 Au ppb 0.2 | AQ251 Th ppm 0.1 | AQ251 Sr ppm 0.5 | AQ251 Cd ppm 0.01 | AQ251 Sb ppm 0.02 | AQ251 Bi ppm 0.02 | AQ251 V ppm 2 | AQ251 Ca % 0.01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OXI121 | Standard | 1.796 | | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | 7.706 | | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | 7.784 | | | | | | | | | | | | | | | | | | | |
| STD OXD108 Expected | | 0.414 | | | | | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | 7.679 | | | | | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | 1.834 | | | | | | | | | | | | | | | | | | | |
| STD DS10 Expected | | | 15.1 | 154.61 | 150.55 | 370 | 2020 | 74.6 | 12.9 | 875 | 2.7188 | 46.2 | 2.59 | 91.9 | 7.5 | 67.1 | 2.62 | 9 | 11.65 | 43 | 1.0625 |
| STD OXC129 Expected | | | 1.3 | 28 | 6.3 | 42.9 | 28 | 79.5 | 20.3 | 421 | 3.065 | 0.6 | 0.72 | 195 | 1.9 | | 0.03 | 0.04 | | 51 | 0.665 |
| BLK | Blank | <0.005 | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.005 | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.005 | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.005 | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.01 | 0.01 | 0.02 | 0.1 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2 | <0.01 |
| BLK | Blank | | <0.01 | <0.01 | <0.01 | <0.1 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2 | <0.01 |
| BLK | Blank | | <0.01 | <0.01 | 0.05 | 0.1 | <2 | <0.1 | <0.1 | <1 | <0.01 | 0.2 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2 | <0.01 |
| BLK | Blank | | <0.01 | <0.01 | 0.03 | 0.1 | <2 | <0.1 | <0.1 | <1 | <0.01 | <0.1 | <0.1 | <0.2 | <0.1 | <0.5 | <0.01 | <0.02 | <0.02 | <2 | <0.01 |

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# QUALITY CONTROL REPORT SMI15000115.1

| | | AQ251 P % 0.001 | AQ251 La ppm 0.5 | AQ251 Cr ppm 0.5 | AQ251 Mg % 0.01 | AQ251 Ba ppm 0.5 | AQ251 Ti % 0.001 | AQ251 B ppm 1 | AQ251 Al % 0.01 | AQ251 Na % 0.001 | AQ251 K % 0.01 | AQ251 W ppm 0.1 | AQ251 Sc ppm 0.1 | AQ251 Tl ppm 0.02 | AQ251 S % 0.02 | AQ251 Hg ppb 5 | AQ251 Se ppm 0.1 | AQ251 Te ppm 0.02 | AQ251 Ga ppm 0.1 | AQ251 Cs ppm 0.02 | AQ251 Ge ppm 0.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OXI121 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | | | | | | | |
| STD OXD108 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | | | | | | | | | | | | | | | | | | | | |
| STD DS10 Expected | | 0.0765 | 17.5 | 54.6 | 0.775 | 359 | 0.0817 | | 1.0755 | 0.067 | 0.338 | 3.32 | 3 | 5.1 | 0.29 | 300 | 2.3 | 5.01 | 4.5 | 2.63 | 0.08 |
| STD OXC129 Expected | | 0.102 | 13 | 52 | 1.545 | 50 | 0.4 | 1 | 1.58 | 0.6 | 0.37 | 0.08 | 1.1 | 0.03 | | | | | 5.6 | 0.16 | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 |
| BLK | Blank | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 |
| BLK | Blank | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | 6 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 |
| BLK | Blank | <0.001 | <0.5 | <0.5 | <0.01 | <0.5 | <0.001 | <1 | <0.01 | <0.001 | <0.01 | <0.1 | <0.1 | <0.02 | <0.02 | <5 | <0.1 | <0.02 | <0.1 | <0.02 | <0.1 |

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Report Date: December 02, 2015



# QUALITY CONTROL REPORT SMI15000115.1

| | | AQ251 Hf ppm 0.02 | AQ251 Nb ppm 0.02 | AQ251 Rb ppm 0.1 | AQ251 Sn ppm 0.1 | AQ251 Ta ppm 0.05 | AQ251 Zr ppm 0.1 | AQ251 Y ppm 0.01 | AQ251 Ce ppm 0.1 | AQ251 In ppm 0.02 | AQ251 Re ppb 1 | AQ251 Be ppm 0.1 | AQ251 Li ppm 0.1 | AQ251 Pd ppb 10 | AQ251 Pt ppb 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STD OXI121 | Standard | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | |
| STD OXN117 | Standard | | | | | | | | | | | | | | |
| STD OXD108 Expected | | | | | | | | | | | | | | | |
| STD OXN117 Expected | | | | | | | | | | | | | | | |
| STD OXI121 Expected | | | | | | | | | | | | | | | |
| STD DS10 Expected | | 0.06 | 1.62 | 27.7 | 1.6 | | 2.7 | 7.77 | 37 | 0.23 | 50 | 0.63 | 19.4 | 110 | 191 |
| STD OXC129 Expected | | 0.24 | 1.4 | | 0.7 | | 21 | 4.7 | 23.7 | | | 0.8 | 2.22 | | |
| BLK | Blank | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | |
| BLK | Blank | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |
| BLK | Blank | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |
| BLK | Blank | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |
| BLK | Blank | <0.02 | <0.02 | <0.1 | <0.1 | <0.05 | <0.1 | <0.01 | <0.1 | <0.02 | <1 | <0.1 | <0.1 | <10 | <2 |