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## SOIL SAMPLING

ON THE

# LEESON-BRACKIN PROPERTY OF JUBILEE GOLD EXPLORATION LTD. 

## SAULT SAINT MARIE MINING DISTRICT

NORTHCENTRAL ONTARIO - NTS-42B/5

2016

Mississauga, Ontario
Consulting Geologist
November, 2016

## SUMMARY

Jubilee Gold Exploration holds a 100\% interest in the Leeson-Brackin Gold Property, consisting of 24 patented claims, and 7 staked claims, located 22 kilometres east of the town of Missanabie, and approximately 120 kilometres north-east of Wawa, in North-Central Ontario. The property adjoins the past producing Renabie Gold Mine, and hosts a common mineralized structure with the Renabi property.

In July and August of 2016, a 6.5 kilometre core section of the original 2008 grid was re-cut, in order to retain control for continuing exploration on the property. Detail soil sampling was completed in the west-central section of the property and returned elevated gold values similar to the results of the preliminary sampling of 2015, confirming the presence of a new target area for future evaluation.

## TABLE OF CONTENTS

PAGE
SUMMARY. ..... i
TABLE OF CONTENTS ..... ii
INTRODUCTION .....  1
PROPERTY, LOCATION AND ACCESS ..... 1
PROPERTY HISTORY - PATENTED CLAIMS ..... 1
GEOLOGY OF THE LEESON-BRACKIN AREA ..... 4
KNOWN GOLD OCCURRENCES IN THE LEESON-BRACKIN AREA .....  .5
2015 SOIL GEOCHEMICAL SURVEY .....  9
OBSERVATIONS AND RECOMMENDATIONS ..... 11
REFERENCES ..... 12
CERTIFICATE ..... 15
STATEMENT OF COSTS ..... 16

## LIST OF FIGURES

FIGURE 1: Location map
FIGURE 2: Claim Map
FIGURE 3: Claim location Map Showing Area Mineral Occurrences

## LIST OF APPENDICES

APPENDIX A RE: MMI LINE PROFILES OF RR VALUES FOR AU, AG, etc APPENDIX B...LABORATORY REPORTS AND CALCULATED RR VALUES APPENDIX C...FIELD NOTES<br>APPENDIX D...SOIL GEOCHEMICAL MAP (Au)<br>+ DATA COMILATION MAP<br>APPENDIX E...EXPENSES (Not Included).

## JUBILEE GOLD, LEESON-BRACKIN PROPERTY

## INTRODUCTION

Jubilee Gold Exploration Ltd. holds a block of patented and staked claims in Leeson Brackin and Stover townships, in the Sault Saint Marie Mining Division, of north-central Ontario (see Table 1). The patented claims adjoin the past-producing Renabie Gold Mine Property to the south. Previous work completed prior to 1990 identified a number of gold occurrences on the LeesonBrackin property. One such gold zone (the 21 Zone) was open-pit mined by Texas Gulf for its silica-gold content in the period 1988-90.

## PROPERTY LOCATION AND ACCESS

The Property consists of 24 patented mining claims, in the Renabie area of north-central Ontario, and an adjoining block of 83 claim units in 7 additional staked claims. The area is accessible by paved highway 651 which extends for approximately 60 kilometres northward from Highway 101 to the Town of Missanabie. An all-weather logging Road extends 22 kilometres eastwards from Missanabie into the patented claims of the Leeson-Brackin property. Secondary logging roads provide access to the east and west ends of the staked claim block.

The Renabie Gold Mine Property (past producer) immediately adjoins the Leeson-Brackin property to the north. The Renabie Property was mined intermittently from the 1940's to the mid 1980's, during which time it produced approximately a million ounces of gold.

## PROPERTY HISTORY - PATENTED CLAIMS

The Patent Leeson-Brackin claim block is part of a larger claim block that was staked in 1939, following the discovery of the Renabie Gold Mine immediately to the north. A number of goldbearing veins were discovered on the Leeson-Brackin property by Canbrae Exploration in the period 1940 - 1941. Braminco Mines Limited subsequently acquired the property and carried out additional exploration during the period 1946-47. Figure 3 of this report (after G. Hogg, 2003) shows the relative locations of the various veins located on the property and in the immediate area, plus the location of our target areas of current interest.

Surface sampling and diamond drilling by Braminco lead to the following reported reserves for the property which would now be best classed as an Indicated Mineral Resource, and historical in nature.

No. 21 Vein - 100,000 tons @ 0.15 oz . Au/ton
No. 7 Vein - 23,000 tons @ 0.13 oz . Au/ton
B Vein - 5,000 tons @ 0.26 oz . Au/ton



Figure 2

TABLE 1
PATENTED MINING CLAIMS-LEESON BRACKIN PROPERTY

| Township/Area | Claim Number |
| :---: | :---: |
| Leeson | S34468 |
| Brackin | S34471 |
| Brackin | S34543 |
| Leeson | S34797 |
| Brackin | S34798 |
| Brackin | S34799 |
| Brackin | S34821 |
| Brackin | S34822 |
| Brackin | S34823 |
| Brackin | S34824 |
| Leeson | S35117 |
| Brackin | S35121 |
| Brackin | S35120 |
| Brackin | S35088 |
| Brackin | S35123 |
| Brackin | S35124 |
| Brackin | S35145 |
| Brackin | S35146 |
| Brackin | S35148 |
| Brackin | S35150 |
| Brackin | S35272 |
| Brackin | S35274 |
| Brackin | S35979 |
| Brackin | S35982 |
| TOTAL |  |
| $\mathbf{R Y 4}$ |  |

## TABLE 2

## STAKED CLAIMS-LEESON BRACKIN PROPERTY

| Township/Area | Claim Number |
| :---: | :---: |
| Stover | 4245160 (4 Units) |
| Stover | 4245161 (12 Units) |
| Stover | 4245162 (12 Units) |
| Brackin/Leeson | 4245163 (14 Units) |
| Brackin/Leeson | 4245165 (16 Units) |
| Brackin | 4245164 (11 Units) |
| Brackin | 4245166 (13 Units) |
|  |  |
| TOTAL | 83 Units |

The property was retained by Brominco but remained inactive until 1984, when it was optioned to Canreos Minerals Ltd. A 3,300 ton bulk sample was taken from the 21 vein and shipped to the Kidd Creek and Noranda smelters for testing as silica flux ore. Reportedly, the larger portion of this sample ( 3,000 tons) was shipped to Noranda, and returned $0.217 \mathrm{oz} \mathrm{Au} /$ ton and $71.9 \%$ silica.

Kidd Creek subsequently optioned the property, and by the end of 1987 had shipped 30,500 tons of auriferous flux from an open cut on the 21 vein.

A decline was driven into the 21-Zone to allow for further development. Additional drilling was reportedly directed at the No 7-Zone and B Veins. In February 1988, Canreos Minerals reported a combined resource (probable, possible and inferred) for the 21-Zone, No. 7-Zone and B-Zone totaling 290,827 short tons @ 0.084 o.p.t Au.

The Canreos Minerals option was terminated in 1990. In 1994, the property was purchased from Braminco Mines Limited by Young-Davidson Mines Limited. The claim group was reduced in size to a core group of 24 key claims to reduce yearly maintenance fees. Concopper Enterprises Limited purchased the property from Young-Davidson Mines Limited in 2003. In late 2008, Concopper established a control grid on the property, and completed ground magnetic and IP geophysical surveys. The adjoining Stover Township Claims were staked in May 2009. Concopper was re-organized with a name change to Micon Gold Inc. in early January 2011.

The Leeson-Brackin property is adjoined immediately to the north by the Renabi and Anglo Dominion properties. Both these properties are located in a similar geological environment as Leeson-Brackin, and both have seen past production. The Renabi mine produced 3,685,992 tons of ore at a recovered grade of 0.212 oz . Au/ton during initial operation from 1947 to 1970, when mining extended to a vertical depth of 3,500 feet.

The Renabi reopened in 1987 under Corona Corporation and American Barrick, and between 1987 and 1991, the mine produced 1 million tons of ore grading 0.19 oz . Au/ton, during which time underground operations were e tended to a depth of 4,500. The mine is now closed and the Renabi mine and town site has undergone extensive rehabilitation.

The adjoining Anglo Dominion property was originally known as the Nudalama property. During the period 1947 to 1951 , a vertical shaft was sunk to 1,065 feet. No production was recorded, but a resource estimate of 579,320 tons grading 0.194 oz . Au/ton, was calculated to a depth of 750 feet, where the vein system plunged onto the Renabi property to the west. During the period 1985 to 1990, under Anglo Dominion's ownership, 111,600 tons of material grading 0.15 oz . Au/ton, was shipped to the Kidd Creek smelter as flux ore. Production was from the No. 1 Vein, which was developed by open pit and a decline to the 150 foot level. The operation closed in 1990.

Concopper established a control grid on the patented claim group in 2008, and completed a ground magnetometer and induced polarization (I.P.) geophysical survey. Concopper subsequently staked an additional 83 claim units adjoining the patented claims to the west, and completed soil geochemical sampling over select targets of initial interest across the enlarged property.

Concopper was re-organized into Micon Gold Inc., and in 2012 completed additional ground geophysical surveying, and soil geochemical sampling over portions of the staked claim group.

Micon Gold Inc. was subsequently re-organized into Jubilee Gold Exploration Ltd., and in 2013 follow-up soil sampling was completed over select geophysical targets from the 2012 survey.

In 2015, Jubilee completed preliminary soil sampling along pace and compass lines across a 1 kilometre section of a strong north-south trending IP chargeability anomaly, located in the southeastern section of the property. The survey returned a clustering of anomalous gold values in the area.

## GEOLOGY OF THE LEESON-BRACKIN AREA

The area is underlain by granodioritic rocks which are in contact with mafic volcanics along the west boundary of the claim block. The main volcanic-granodiorite contact strikes southeasterly across the Renabi property and the western limit of the Leeson-Brackin property. The known auriferous vein systems of the area occur within the granodiorite, and typically exist as finegrained, white sugary quartz with bands of disseminated pyrite and minor galena. Individual veins reportedly vary in thickness from a few inches to over 30 feet, and commonly exhibit excellent vertical continuity along distinct plunge lines. On the Leeson-Brackin claims, the No 21 and No 7 veins reportedly displayed a plunge of 30 degrees to the north.
D. McBride (1990), noted that the major vein systems in the area commonly lie within sharply folded locations along a variably sheared major structure (the "Frontenac Horizon") which extends in a southerly direction through the granodiorite complex, and which seems to represent a favorable depositional environment for silica, pyrite and gold. Auriferous veining has been found to be frequently present in areas of minor folding along this structure.

Gold deposits in the area reportedly occur commonly at or near the intersection of northerly and easterly trending fault structures. Individual deposits often have been referred to as pencil shaped, with a short strike length, and extending down plunge for considerable distance as a series of parallel overlapping, or on-echelon lenses.

## KNOWN GOLD OCCURRENCES IN THE LEESON-BRACKIN AREA

Exploration in the general Missanabie area started in the late 1930's, and resulted in the discovery of the Renabie Mine which was placed in production in 1946. The surrounding area was explored by a number of companies in the period 1945-1950, following World War II. Canbrae Exploration discovered several significant gold occurrences south of the Renabie property on what is now the Jubilee property.

Brominco Mines acquired the Canbrae and adjacent property in 1946, and continued exploration on the group in 1947. No further work was completed on the property until 1983, when it was acquired by Canreos Minerals.

In the period 1983 to 1989, Canreos carried out ground geophysical surveying over what is now the Jubilee property. This was accompanied by geological mapping and prospecting, trenching and sampling and several diamond drill programs.

In February 1988, Canreos Minerals reported a combined resource (now historical) totaling 290,627 short tons @ 0.084 o.p.t. Au for the 21 Zone, 7 zone and B vein (average width 6.3 feet). This resource is now considered historical in nature and not compliant with 43-101 requirements.

Known gold occurrences on the Jubilee Property occur in granitic rocks, and are described briefly in the following section.

## " 21 " Gold Zone

The " 21 Zone is associated with a zone of shearing which strikes roughly north- $30^{\circ}$ east, parallel to the Metavolcanic-granite contact located 250 metres to 300 metres to the west. The 21 Zone is the most significant of the gold zones encountered to date on the property. At surface and in the area of exposure, the " 21 " zone shear dips westerly at 50 to 60 degrees. The main mineralized section of the " 21 " zone has an apparent length of approximately 220 metres in a north-south orientation, and a width of approximately 10
metres. Within the mineralized horizon, mineralization appears concentrated in shoots plunging to the northwest at approximately 30 degrees. Gold occurs with quartz lenses and siliceous replacement within the shear, and is commonly associated with sulphides. Pyrite and galena are most common, but minor chalcopyrite and /or molybdenite are locally present. A 3000 ton bulk sample was taken from the surface of the " 21 " zone in late 1985, and shipped to the Horne smelter in Noranda for testing as a silica smelter flux. In 1985, a decline ramp was commenced for the purpose of collecting a similar 5000 ton bulk sample for shipment to the Kidd Creek smelter in Timmins. By 1988, 130,000 tons of open pit and development ore, containing 0.12 $\mathrm{oz} /$ ton Au , had reportedly been shipped to the Kidd Creek smelter in Timmins as flux ore (W. Brack. 1989). In February 1988, the resource of the 21 vein (probable, possible and inferred and now historical) was stated to be 102,920 short tons @ 0.108 o.p.t. Au (av. width 12.4’).

The central 200 metre long section of the currently defined \#21 Zone remains open and currently untested below the vertical depth of approximately 100 metres. Previous drilling near the south end of the defined section of the \#21 zone encountered a wide section of shearing carrying anomalous gold ( $0.04 \mathrm{opt} / 105$ feet core length). Further testing at depth is warranted.

## "7" Zone

The main section of the \#7 Zone is located about 200 metres southeast of the 21 Zone (or vein). The main section of the \#7 Zone has been traced on surface for over 100 metres, with an apparent width of 4 metres. Silicification within the \#7 shear zone has been reported to be less intense than within the main section of the 21 Zone. In 1987, a 4600 ton bulk sample was taken from a small open pit on the No. 7-Zone, and shipped to the Kidd Creek smelter. In February 1988, Canreos reported the resource of the No. 7 Zone (probable + possible + inferred, and now historical) at 176, 379 short tons @ 0.066 o.p.t Au, average width 24.8 feet).

The shear hosting the \#7 Zone intersects the \#21 Zone near its apparent south end, and trends in an easterly direction across the property, passing close to Zones " 22 ", "B" and "C" described below. Soil sampling completed in 2009 and 2010, suggests the host shear may continue in an easterly direction across the property..
"A-Zone"
The "A" zone" is descried as a narrow zone of quartz enrichment located 200 metres north of the east extension of the " 7 - Zone" shear. Canbrae completed 6 drill holes in the area of the A-Zone in 1941. The best drill intersection reported was 0.29 opt Au over a core length of 4.25 feet.
"B" Vein
The " B " vein is located 400 metres east of the \#7 zone, and 175 metres south of the "A" zone. The "A" and "B" zones appear to occupy a parallel northerly trending shear to that hosting the "21-Zone". The "B" vein appears to lie a possible 60 metres to the west of the projected south extension of the "A" vein, and is described as a quartz-sericite pipe, enriched locally in pyrite and galena. The pipe which has been exposed for approximately 50 metres on surface, reportedly plunges at $40^{\circ}$ to the southwest. Gold occurs in areas of sulphide enrichment. Canbrae completed 12 holes in the area of the B-zone in 1941. In 1985 Canreos completed an additional 11 drill holes in the area. Better drill intersections included 0.136 opt Au over 20.5 feet, and 0.525 opt Au over a core length of 6.8 feet. Outside of the pipe, gold mineralization appears of low grade and erratic, and the tonnage potential of the B-Vein appears limited. In February 1988, the mineral inventory for the B-Zone (probable + possible + inferred and now historical) was reported at 11,528 short tons @ 0.153 o.p.t Au, av width 6.3 feet).
"C" Zone
The "C" zone is located 400 metres southeast of the "B' zone. Fissure veins and quartz filled fractures are reported to be quite common in the area. Chlorite alteration is said to predominate over sericite alteration in the area, and hematite enrichment locally accompanies anomalous gold values. Trenching and some 32 drill holes have previously been directed at the area, and indicate the presence of high grade but erratic gold values. Canbrae Exploration drilled 8 holes in the area in 1941. Canreos completed some 24 holes in 1987. The best drill intersection reported was 0.14 opt Au over 15 feet.
"D" Zone
The "D" Zone is located 1.8 kilometres southeast of the " 21 - Zone", and just east of the LeesonBrackin property boundary. Pyrite and minor other sulphides are reportedly concentrated along with anomalous gold values in a northeast trending fold nose (axis trending between 115 and 150 and dipping 15 to 40 to the northwest (W. Brack 1988).

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"22"Zone
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The " 22 " zone is located 140 metres east-south-east of the \#7 Zone open pit. Canbrae trenched the area and drilled one hole on the target in 1941. Surface trenching returned o. 10 opt Au over 11.0 feet, and drilling returned 0.08 opt Au over 8.0 feet. Mapping in this area in the 1980 's, suggested the \#22 Zone may represent part of an easterly trending structure not well tested by previous drilling. Soil geochemical sampling completed in 2009, returned elevated gold values from an area 200 metres further to the east. It seems possible that shearing in the area of the " 22 " zone may continue eastward into the area of this soil geochemical anomaly. Detail soil sampling in 2010 along trend of this target horizon offers support for the local presence of gold associated with an east-west trending structure.

## Other Gold Zones And Occurrences

The "Springer-Vein" and " 69 -Vein"

The "Springer" and " 69 "Zones are present along a continuous horizon, located 1,300 metres south of the " 7 " zone. The mineralized trend strikes approximately $135^{\circ}$, and dips steeply to the southwest. Gold values of up to 0.19 opt over 0.75 metres have been reported from trench sampling of the " 69 " vein. A single drill hole completed in this area in 1946 returned 2.86 o.p.t. Au over a 2.0 foot long core section. Seven holes drilled along trend to the north, in the area of the "Springer Zone", returned no economically significant gold values. The best drill intersection in this northern section of the trend was 0.71 opt Au over 0.5 feet.
"23-Zone"
The " 23 "-Zone is located 270 metres south of the " 7 " zone sample pit. It is described as a narrow quartz vein that returned a gold value of 0.03 o.p.t. from early 1940 vintage sampling. Soil sampling (MMI method) completed in 2009, returned elevated gold values of up to 16 times background from 30 metres to the south, and associated with a weak IP chargeability anomaly. Detail soil sampling is warranted in this area.

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"45" Zone
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The " 45 " Zone is located 600 metres south of the " 7 " zone pit. Minor gold mineralization apparently was encountered in a southeast trending quartz vein, dipping steeply to the south. Four drill holes were completed on the zone in 1987, and the best gold value obtained was 0.71 opt over 0.5 feet. Veining apparently was narrow and gold values quite erratic.

## "72"-Zone

The " 72 "-Zone is located approximately 1,600 metres south-east of the "\#7" vein , and 800 metres south of the "D" Zone. It is described by Brack (1988) as a 35 metre long and 3 metre wide quartz vein at the intersection an older north-south structure and a younger easterly trending structure ( $110^{\circ}$ ), and dips steeply to the south. Sulphide mineralization is indicated to be minor. Gold values of up to 0.19 opt over 0.7 metres were reported from early surface sampling. Diamond drilling reportedly returned only sub-economic gold values. Soil sampling completed in 2009 returned an elevated gold value of 54 ppb gold from a sample line 70 metres to the south, and associated with a weak chargeability anomaly. (The Background gold value in this area was 4 ppb ).
"73-Vein" (North Extension)
The " 73 " vein - North Extension" is located near the south-west corner of the property. In the 1940's, grab samples from trenching and sampling of the "73-Vein" reportedly returned assays of up to $0.67 \mathrm{oz} / \mathrm{t} \mathrm{Au}$. Assays of up to $1.36 \mathrm{oz} / \mathrm{t} \mathrm{Au}$ and $1.22 \mathrm{oz} / \mathrm{t} \mathrm{Ag}$ over 3 ft were reported in early drilling by Macabie Mines Limited in 1980. Following further drilling, gold mineralization was concluded to be localized and erratic in distribution. In 2010, Micon Gold Inc. completed a single line of soil sampling across the area, near the south limit of the property which returned no significant gold values.
"75"-Vein
The " 75 " vein is located near the southeast boundary of the property. A single drill hole completed in 1987 returned 0.79 opt Au over a 0.7 foot core section, at a hole depth of 183.9'. Mineralization appears confined to a southerly trending narrow quartz vein.
"88-Zone"
The " 88 " Zone is located approximately 200 metres north-east of the " 73 " Zone, and near the eastern property boundary. The area also received early drilling. The vein was reported as being similar to the " 73 " Zone, and not of economic importance.

## "98-Vein"

The " 98 " Zone is located 250 metres west of the " $\# 7$ " zone pit. It was described as a narrow southerly trending quartz vein. An unsuccessful attempt was made to locate the showing in 2009; however, an isolated high soil gold-geochemical anomaly of 126 ppb was obtained just 60 metres south of the suspect location of the showing. Follow-up prospecting of the anomalous sample site produced no local explanation for the soil anomaly, and it is suspected it may be due to the presence of glacially transported material from the north.

## 2016 -SOIL-GEOCHEMICAL SURVEY

In July-August 2016, approximately 6.5 kilometres of the Concopper grid of 2008 was re-cut, to retain control for continuing exploration. Soil sampling was initiated along select grid lines in the south sector of the patented claim group. Five sample lines were directed westward across a kilometre long section of a strong northerly trending IP chargeability anomaly straddling the granite-greenstone contact near the west boundary of the property. The anomaly of interest trends roughly parallel to the strike of the \#21 Gold Zone. Preliminary soil geochemical sampling completed in this area in 2015 returned elevated gold values from this area.

In 2016, a sixth and final sample line (Line 1700 South) was positioned north of the historic Springer Vein, and directed eastward for 450 metres across the property.

## General

204 soil samples were collected along six lines, and samples were delivered by truck to SGS Laboratories in Sudbury, Ontario.

## Analysis

The SGS field Laboratory in Sudbury shipped the samples to their Laboratory in Vancouver to be processed by the MMI Method for eight elements ( $\mathrm{Au}, \mathrm{Ag}, \mathrm{As}, \mathrm{Cu}, \mathrm{Zn}, \mathrm{Pb}, \mathrm{Mo}$ and Co ).

## Control

SGS Laboratories processed a selection of duplicate samples, and also inserted laboratory standard and blank samples. In all instances, such check sampling supported the accuracy of the results.

## Data Treatment and Presentation

Soil-gold geochemical results from the patented claim block are presented in map form in Appendix D of this report.

The MMI method of analyses is a proprietary technique first developed in Australia, but now commonly used in Canada. The "raw" geochemical data is collected, and for presentation purposes, for each sample, response Ratios (RR) are calculated for each element analyzed. The Response Ratio is a measure of how a particular assay relates to the background value for the sample population.

During the current survey, RR values for the various elements were calculated as follow:

1. Any assay below the detection limit ( Au limit is 1 ppb ) is assigned a value of $1 / 2$ the detection limit.
2. The lower quartiles, of the population of geochemical analysis for individual elements in the survey, were selected and sample values in these lower quartiles were averaged.
3. For each sample, the geochemical analysis for each element was divided by the appropriate lower quartile averages calculated above, to produce Response Ratios for each of the five elements.

Response Ratios below 5 are normally considered of doubtful significance.
The RR values for elements of interest (in the current case gold) can then be presented in a series of map plots or bar charts. For the 2015 sampling, RR values are presented in a series of bar charts in Appendix A of this report.

Anomalous gold values were obtained from a clustering of soil sample sites on each of four lines across a 500 metre section of a northerly trending induced polarization (I.P). chargeability anomaly identified by Concopper in 2008, in the southwest section of the property. Soil-Gold values in the range from 6 to 50 times background were encountered during the current survey. Elevated gold values of 6 to 36 times background were also obtained from a fifth sample line located 375 metres to the north (grid-line 625 South).

Soil gold-geochemical results obtained during the current program compare favorably with sample results obtained previously by Concopper near known gold occurrences elsewhere on the property. The chargeability anomaly targeted by our current survey occurs along the eastern side of the granite-volcanic contact located near the west side of the property. A series of historic gold occurrences (the 75 Vein, 72 Vein, 69 Vein and Springer vein) occur along a common westerly trending cross structure that appears to project into the most anomalous portion of our 2015-2016 sample area.

Sampling in 2016 on line 1700S, north of the historic Springer Gold Vein, and continuing eastward across the claim group, returned only background gold values.

## OBSERVATIONS AND RECOMMENDATIONS

Soil geochemical sampling in 2016 confirmed the presence of an area of elevated gold values indicated previously by preliminary soil sampling in 2015, along a 500 metre long north-south trend near the western side of the property. Soil sampling also returned elevated gold values 375 metres further to the north along the same trend. Two historic gold occurrences (the \#73 and \#88 gold veins) in the southwest corner of the patented claim group, appear to lie along the projected south extension of this anomalous trend, and the historic \#21 gold zone, located near the north property boundary, occurs along the projected north extension of this same trend.

The two kilometer long trend extending through our survey area of 2016 northward towards the historic \#21 gold zone is recommended for detail evaluation. The grid section west of the base line, and extending from 1250 metres grid south to 1750 metres grid south, and the area near the base line on Line 625 metres grid south, warrant follow-up evaluation. Scattered outcrops were observed throughout these areas during recent soil sampling, and follow-up surface prospecting of these areas is recommended.


Figure 3

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Winter,L.D.S., P. Geo., Dan Patrie Exploration Ltd., November 28, 2008, Geophysical Report on The Leeson-Brackin Property, for Concopper Enterprises Inc.

Miscellaneous loose drill logs and sections and maps Canreos Mines etc. - Toronto office of Concopper.

Miscellaneous Assessment Files, Ontario Ministry of Natural Resources, Division of Mines (Timmins Office)


William R. Troup
Mississauga Ontario

## CERTIFICATE OF QUALIFICATIONS

I, William R. Troup of Mississauga, Ontario, hereby certify and declare the following:

1. I am a Consulting Geologist.
2. I graduated from the University of Waterloo with an NSc Degree in Geology in 1975.
3. I have been practicing my profession for the past 41 years.
4. I am a fellow in the Geological Association of Canada.
5. I supervised and participated in the 2016 soil sampling program on the Leeson-Brackin property, in north-central Ontario.
6. The opinions expressed in this report are based on my personal observations, and on a review of public geological and geophysical reports on the area.


William R. Troup, MSc. BSc. F.G.A.C. P. Geol

Mississauga, Ontario
November 30, 2016

# STATEMENT OF EXPLORATION EXPENDITURES 

LEESON-BRACKIN - JUNE TO DECEMBER 2016

## CONTRACT EXPLORATION SERVICES

Alcanex Ltd., Geological Services.................................................... $\$ 13,345.01$
-Preparation for line cutting + soil sampling.........\$7,043.00

- Data Compilation \& Reporting on soil sampling..\$6,302.01

DAN PATRIE EXPLORATION SERVICES
$\$ 9,718.00$
-Line Cutting and Soil Sampling
SGS Laboratories....................................................................66,654.01
-MMI sample analysis.\$1,918.74+\$2,743.19+\$1,992.08

W. Troup Geological Consultant.

November 2016

## APPENDIX A

MMI LINE PROFILES OF RR VALUES FOR AU, AG, etc







## APPENDIX B

# Certificate of Analysis <br> Work Order : VC162367 <br> [Report File No.: 0000018471] 

Date: August 15, 2016
To: BILL TROUP
JUBILEE GOLD EXPLORATION LTD
80 RICHMOND ST W
SUITE 605
TORONTO ON M5H 2 S9

## Methods Summary

| No. Of Samples |  | Method Code |
| :--- | :--- | :--- |
|  | G_LOG02 |  |
| 60 | GE_MMI_M |  |

P.O. No.: Line 1315,1190 South L-B Property

Project No.: -
Samples: 60
Received: Aug 3, 2016
Pages: Page 1 to 3 (Inclusive of Cover Sheet)

Description
Pre-preparation processing, sorting, logging, boxing
Pre-preparation processing, sorting, logging,
Mobile Metal ION standard package/ICP-MS


Final : VC162367 Order: Line 1315,1190 South L-B Property
Page 2 of 3 Report File No: 0000018471


31
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direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample (s). The Company accepts no liabiify with regard to the origin
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31

Final : VC162367 Order: Line 1315,1190 South L-B Property
Page 3 of 3 Report File No.: 0000018471

|  | Element <br> Method <br> Det.Lim. <br> Units | Au | Ag | As | Cu | Zn | Pb | Mo | Co |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M |
|  |  | 0.1 | 0.5 | 10 | 10 | 10 | 5 | 2 | 1 |
|  |  | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| 1190-100W |  | 0.1 | 1.4 | 40 | 140 | 1310 | 1090 | 6 | 55 |
| 1190-112W |  | $<0.1$ | 1.9 | 10 | 140 | 540 | 697 | 4 | 106 |
| 1190-125W |  | 0.2 | 12.0 | 30 | 120 | 300 | 228 | 7 | 65 |
| 1190-150W |  | 0.2 | 5.8 | 40 | 210 | 490 | 266 | 26 | 64 |
| 1190-162W |  | $<0.1$ | 1.8 | 30 | 150 | 1400 | 1800 | 5 | 120 |
| 1190-175W |  | $<0.1$ | 5.5 | 20 | 250 | 650 | 823 | 6 | 55 |
| 1190-187W |  | 0.3 | 13.0 | $<10$ | 270 | 160 | 117 | 4 | 42 |
| 1190-200W |  | 0.5 | 20.0 | $<10$ | 1940 | 110 | 167 | 4 | 50 |
| 1190-212W |  | 0.9 | 10.9 | $<10$ | 1160 | 70 | 25 | 3 | 51 |
| 1190-225W |  | 0.3 | 3.6 | $<10$ | 180 | 300 | 123 | 4 | 57 |
| 1190-237W |  | 0.2 | 4.0 | 10 | 250 | 400 | 153 | 3 | 31 |
| 1190-250W |  | $<0.1$ | 2.1 | 20 | 140 | 540 | 538 | 3 | 42 |
| 1190-262W |  | 0.6 | 7.1 | $<10$ | 1920 | 50 | 102 | 3 | 63 |
| 1190-275W |  | $<0.1$ | 2.0 | $<10$ | 130 | 440 | 313 | 2 | 37 |
| 1190-287W |  | $<0.1$ | 1.6 | 30 | 230 | 640 | 117 | 4 | 52 |
| 1190-300W |  | $<0.1$ | 0.5 | 30 | 140 | 590 | 3690 | 10 | 52 |
| 1190-312W |  | 0.4 | 2.7 | $<10$ | 460 | 30 | 19 | $<2$ | 19 |
| 1190-350W |  | 0.2 | 2.0 | 30 | 3290 | 60 | 122 | 17 | 41 |
| 1190-362W |  | 1.1 | 4.7 | $<10$ | 8570 | 710 | 442 | 8 | 122 |
| 1190-375W |  | $<0.1$ | 6.0 | $<10$ | 3880 | 150 | 126 | $<2$ | 41 |
| *Rep 1315-62W |  | 0.2 | $<0.5$ | $<10$ | 30 | 280 | 112 | $<2$ | 244 |
| *Rep 1315-212W |  | 0.3 | 9.9 | 60 | 280 | 220 | 281 | 5 | 79 |
| *Rep 1190-37W |  | $<0.1$ | 7.0 | 40 | 120 | 200 | 775 | 6 | 57 |
| *Rep 1190-150W |  | 0.2 | 5.6 | 40 | 190 | 480 | 256 | 24 | 60 |
| *Rep 1190-250W |  | $<0.1$ | 1.5 | 20 | 110 | 670 | 621 | 3 | 45 |
| *Std AMIS0169 |  | 0.5 | 9.1 | $<10$ | 3280 | 160 | 99 | 3 | 81 |
| *BIk BLANK |  | $<0.1$ | $<0.5$ | $<10$ | $<10$ | $<10$ | < | $<2$ | $<1$ |
| *BIk BLANK |  | $<0.1$ | <0.5 | <10 | <10 | <10 | < | <2 | <1 |

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# Certificate of Analysis 

## Work Order : VC162967

## [Report File No.: 0000019268]

## Date: October 04, 2016 <br> To: William Troup <br> JUBILEE GOLD EXPLORATION LTD <br> PO BOX 37029 <br> NORTH YORK ON M2M 4J8

Methods Summary

| No. Of Samples | Method Code |  |
| :---: | :---: | :---: |
| 84 | G_LOG02 |  |
| 84 | GE_MMI_M |  |
| Storage: Pulp \& Reject |  |  |
| REJECT STORA | : | DISCARD |

P.O. No.: L-B Project 625-01_51, 1700-01_36

Project No.: -
Samples: 84
Received: Sep 21, 2016
Pages: Page 1 to 4 (Inclusive of Cover Sheet)

Description
Pre-preparation processing, sorting, logging, boxing Mobile Metal ION standard package/ICP-MS

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specificic tests as listed on their scope of
accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Final: VC162967 Ordor: L-B Project 625-01_51, 1700-01_36
Page 2 of 4 Report File No.: 0000019268

|  | Element Method Det.Lim. Units | $\begin{array}{r} \text { Au } \\ \text { GE_Mmi_M } \\ 0.1 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \mathrm{Ag} \\ \text { GE_MMI_M } \\ 0.5 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { As } \\ \text { GE_MMI_M } \\ 10 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \mathrm{Cu} \\ \text { GE_MMI_M } \\ 10 \\ \mathrm{ppb} \end{array}$ | Zn GE_MMI_M 10 ppb | Pb GE_MMI_M 5 ppb | $\begin{array}{r} \mathrm{Mo} \\ \text { GE_MMI_M } \\ 2 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { Co } \\ \text { GE_MMI_M } \\ 1 \\ \mathrm{ppb} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 625-01 |  | 0.1 | 1.1 | 20 | 300 | 390 | 199 | $<2$ | 22 |
| 625-02 |  | 0.1 | 3.5 | 100 | 210 | 740 | 406 | 5 | 48 |
| 625-03 |  | 0.5 | 4.8 | 40 | 480 | 390 | 430 | 10 | 131 |
| 625-04 |  | 0.3 | 3.7 | 20 | 340 | 350 | 358 | 6 | 96 |
| 625-05 |  | 9.3 | 9.7 | 10 | 1030 | 80 | 38 | 28 | 56 |
| 625-06 |  | 0.7 | 1.9 | 30 | 750 | 180 | 332 | 9 | 124 |
| 625-07 |  | 0.7 | 2.5 | 40 | 170 | 130 | 206 | 4 | 53 |
| 625-09 |  | 0.7 | 1.6 | 20 | 200 | 120 | 151 | 7 | 60 |
| 625-10 |  | 0.7 | 4.6 | 10 | 450 | 40 | 64 | 14 | 61 |
| 625-12 |  | $<0.1$ | 2.7 | 50 | 190 | 1160 | 675 | 18 | 72 |
| 625-13 |  | 0.1 | 3.2 | 30 | 370 | 960 | 299 | 15 | 248 |
| 625-14 |  | 0.3 | 1.6 | 20 | 510 | 90 | 47 | 8 | 192 |
| 625-15 |  | 0.5 | 2.5 | $<10$ | 310 | 30 | 13 | $<2$ | 50 |
| 625-16 |  | 0.7 | 7.2 | $<10$ | 680 | 20 | 10 | $<2$ | 57 |
| 625-17 |  | 0.6 | 0.5 | 40 | 110 | 60 | 180 | 7 | 42 |
| 625-18 |  | 0.1 | 1.7 | 10 | 160 | 70 | 200 | 5 | 31 |
| 625-19 |  | 0.2 | 0.6 | 20 | 110 | 180 | 99 | 9 | 27 |
| 625-20 |  | 1.8 | 1.2 | 50 | 370 | 410 | 173 | 8 | 76 |
| 625-21 |  | $<0.1$ | 4.4 | $<10$ | 440 | 40 | 69 | 4 | 118 |
| 625-22 |  | $<0.1$ | 3.7 | $<10$ | 1060 | 140 | 160 | 14 | 65 |
| 625-23 |  | 0.1 | 4.5 | $<10$ | 780 | 110 | 143 | 11 | 36 |
| 625-24 |  | 0.5 | 12.2 | $<10$ | 2970 | 90 | 412 | 6 | 92 |
| 625-25 |  | $<0.1$ | 2.8 | $<10$ | 620 | 1040 | 372 | 33 | 120 |
| 625-26 |  | 2.2 | 3.7 | $<10$ | 740 | 40 | 131 | 24 | 52 |
| 625-27 |  | $<0.1$ | 4.4 | 40 | 340 | 260 | 308 | 97 | 30 |
| 625-28 |  | 0.1 | 1.5 | 40 | 390 | 300 | 98 | 40 | 56 |
| 625-29 |  | 0.1 | 2.3 | 20 | 390 | 350 | 419 | 7 | 55 |
| 625-30 |  | $<0.1$ | 11.2 | 20 | 240 | 110 | 123 | 4 | 74 |
| 625-31 |  | $<0.1$ | 2.3 | 30 | 590 | 540 | 126 | 11 | 356 |
| 625-32 |  | 0.2 | 2.5 | 20 | 890 | 590 | 216 | 6 | 42 |
| 625-33 |  | $<0.1$ | 1.7 | 20 | 590 | 680 | 277 | 4 | 148 |
| 625-34 |  | 1.6 | 1.9 | 20 | 510 | 720 | 79 | 3 | 134 |
| 625-35 |  | $<0.1$ | 2.3 | 60 | 370 | 690 | 375 | 14 | 39 |
| 625-36 |  | $<0.1$ | 2.3 | 20 | 1220 | 930 | 100 | 5 | 169 |
| 625-37 |  | $<0.1$ | 1.1 | 10 | 480 | 150 | 102 | <2 | 46 |
| 625-38 |  | $<0.1$ | 6.2 | 60 | 550 | 530 | 212 | 7 | 112 |
| 625-39 |  | $<0.1$ | 1.8 | $<10$ | 1080 | 100 | 55 | <2 | 675 |
| 625-40 |  | $<0.1$ | 2.9 | 50 | 540 | 290 | 308 | 6 | 101 |
| 625-41 |  | $<0.1$ | 1.3 | 20 | 560 | 90 | 70 | 5 | 29 |
| 625-42 |  | $<0.1$ | 3.8 | 30 | 320 | 1010 | 189 | 6 | 59 |

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Final: VC162967 Order:
Report File No::0000019268

|  | Element Method Det.Lim. Units | Au GE_MMI_M 0.1 ppb | Ag GE_MMIM 0.5 ppb | $\begin{array}{r} \text { As } \\ \text { GE_MMI_M } \\ 10 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { Cu } \\ \text { GE_MMI_M } \\ 10 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \mathrm{Zn} \\ \text { GE_MMI_M } \\ 10 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \mathrm{Pb} \\ \text { GE_MMI_M } \\ 5 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { Mo } \\ \text { GE_MMI_M } \\ 2 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { Co } \\ \text { GE_MMI_M } \\ 1 \\ \mathrm{ppb} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $<0.1$ | 4.2 | 10 | 480 | 690 | 555 | 5 | 331 |
| 625-43 |  | 0.2 | 5.1 | 10 | 310 | 200 | 215 | 5 | 51 |
| 625-46 |  | $<0.1$ | 18.0 | 50 | 920 | 950 | 322 | 12 | 302 136 |
| 625-47 |  | 0.2 | 5.5 | 40 | 2390 | 550 | 222 | 16 |  |
| 625-48 |  | $<0.1$ | 0.9 | $<10$ | 390 | 10300 | 452 | <2 | 171 |
| 625-49 |  | $<0.1$ | 9.9 | 20 | 230 | 1020 | 277 | 10 | 133 |
| 625-50 |  | $<0.1$ | 5.1 | 20 | 1450 | 7420 220 | 226 | 7 | 98 |
| 625-51 |  | <0.1 | 5.9 | <10 | 79 | 90 | 272 | 2 | 33 |
| 1700-01 |  | <0.1 | 1.0 | 20 | 310 | 120 | 125 | 3 | 43 |
| 1700-02 |  | 0.2 $<0.1$ | 1.6 2.3 | 20 | 400 | 130 | 144 | 2 | 46 |
| 1700-03 |  | <0.1 | 2.3 | 30 | 80 | 90 | 48 | <2 | 49 |
| 1700-04 |  | <0.1 | 1.9 | 60 | 330 | 700 | 530 | 5 | 53 |
| 1700-05 |  | <0.1 | 1.7 | 10 | 270 | 170 | 154 | 4 | 50 |
| 1700-06 |  | <0.1 | 3.3 | 30 | 190 | 340 | 192 | 8 | 46 |
| 1700-07 |  | <0.1 | 0.7 | $<10$ | 60 | 270 | 423 | <2 | 51 |
| 1700-08 |  | <0.1 | 0.9 | 40 | 210 | 2280 | 2770 | 7 | 44 |
| 1700-09 |  | <0.1 | 1.7 | 20 | 80 | 100 | 80 | 3 | 29 |
| 1700-10 |  | <0.1 | 3.9 | 10 | 230 | 150 | 205 | 3 | 43 |
| 1700-11 |  | -0.1 | 3.9 | 30 | 290 | 420 | 196 | 9 | 42 |
| 1700-12 |  | 0.1 | 3.5 | 30 | 530 | 360 | 223 | 9 | 163 |
| 1700-13 |  | <0.1 | 1.8 | 30 | 410 | 150 | 37 | 6 | 95 |
| 1700-14 |  | <0.1 | 4.2 | 20 | 330 | 590 | 150 | 5 | 433 |
| 1700-15 |  | <0.1 | 4.2 1.8 | 10 | 350 | 50 | 299 | 5 | 41 |
| 1700-16 |  | <0.1 | $\begin{array}{r}1.8 \\ \hline\end{array}$ | $<10$ | 190 | 170 | 232 | 4 | 161 |
| 1700-17 |  | $<0.1$ | < 2.5 | 20 | 130 | 1390 | 843 | 5 | 26 |
| 1700-18 |  | $<0.1$ | 2.5 | 50 | 340 | 200 | 96 | 7 | 46 |
| $1700-19$ $1700-20$ |  | $<0.1$ | 1.3 | 10 | 200 | 390 | 487 | 5 | 36 |
| $1700-20$ $1700-21$ |  | $<0.1$ | 1.9 | 20 | 190 | 770 | 244 | 9 | 561 |
| 1700-22 |  | 0.2 | 2.6 | 20 | 300 | 350 | 221 | 12 | 114 |
| 1700-23 |  | $<0.1$ | 4.9 | 20 | 430 | 110 | 378 | 4 | 65 |
| 1700-24 |  | $<0.1$ | 13.0 | 40 | 330 | 130 | 205 | 6 | 154 |
| 1700-25 |  | $<0.1$ | 18.9 | 20 | 170 | 120 | 351 | 4 | 107 |
| 1700-26 |  | $<0.1$ | 1.4 | 30 | 170 | 190 | 659 | 5 | 62 |
| 1700-27 |  | $<0.1$ | 3.1 | 30 | 340 | 140 | 273 | 7 | 69 |
| 1700-28 |  | 0.2 | 2.2 | 30 | 180 | 730 | 609 | 5 | 42 |
| 1700-29 |  | $<0.1$ | 1.4 | 50 | 180 | 330 | 163 | 7 | 42 |
| 1700-30 |  | $<0.1$ | 0.7 | 20 | 140 | 3790 | 956 | 11 | 49 |
| 1700-31 |  | $<0.1$ | 1.9 | 50 | 190 | 470 | 471 | 8 | 37 |
| 1700-32 |  | $<0.1$ | 1.2 | 30 | 200 | 340 | 293 | <2 | 20 |

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Report File No.:0000019268
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purposes. Any unauthorized alteration, forgery or fa

# Certificate of Analysis Work Order : VC162969 [Report File No.: 0000019269] 

Date: October 04, 2016
To: William Troup
JUBILEE GOLD EXPLORATION LTD
POBOX 37029
PO BOX 37029
NORTH YORK ON M2M 4J8
P.O. No.: L-B Project1700-37,1000-01_25,1500-01_35 Project No.: -

Samples: 61
Received: Sep 21, 2016
Pages: Page 1 to 3
(Inclusive of Cover Sheet)

## Methods Summary

| No. Of Samples | Method Code |
| :---: | :---: |
| 61 | G_LOG02 |
| 61 | GE_MMI_M |
| Storage: Pulp \& Reject |  |
| REJECT STORAG | - |

Certified By


SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISOIIEC 17025 for specific tests as listed on their scope of ccreditation which can be found at http://www.scc.ca/en/search/palcan/sgs


Final: VC162969 Order: L-B Project1700-37,1000-01_25,1500-01_35 Report File No: : 0000019269

|  | Element Method Det.Lim. Units | $\begin{array}{r} \mathrm{Au} \\ \text { GE_MMIM } \\ 0.1 \\ \mathrm{ppb} \end{array}$ | $\begin{array}{r} \text { Ag } \\ \text { GE_MMI_M } \\ 0.5 \\ \mathrm{ppb} \end{array}$ | As GE_MMI_M 10 ppb | Cu GE_MMI_M 10 ppb | Zn GE_MMI_M 10 ppb | $\begin{array}{r} \text { Pb } \\ \text { GE_MMI_M } \\ 5 \\ \text { ppb } \end{array}$ | $\begin{array}{r} \text { Mo } \\ \text { GE_MMI_M } \\ 2 \\ \text { ppb } \end{array}$ | $\begin{array}{r} \text { Co } \\ \text { GE_MMI_M } \\ 1 \\ \text { ppb } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1700-37 |  | 0.3 | 9.6 | 20 | 220 | 230 | 250 | 16 | 214 |
| 1000-01 |  | 0.4 | 3.6 | 40 | 250 | 210 | 288 | 11 | 50 |
| 1000-02 |  | 0.1 | 3.0 | 30 | 230 | 310 | 446 | 9 | 105 |
| 1000-03 |  | 0.5 | 1.7 | 30 | 190 | 200 | 353 | 11 | 38 |
| 1000-04 |  | 0.2 | 7.6 | 50 | 560 | 660 | 628 | 47 | 219 |
| 1000-05 |  | 0.6 | 3.0 | 20 | 650 | 440 | 130 | 32 | 101 |
| 1000-06 |  | 0.2 | 4.5 | 20 | 370 | 50 | 42 | 5 | 63 |
| 1000-07 |  | 0.3 | 4.2 | 40 | 790 | 270 | 203 | 10 | 114 |
| $1000-08$ |  | 0.2 | 5.9 | 10 | 780 | 300 | 83 | 7 | 181 |
| 1000-09 |  | $<0.1$ | 2.2 | 10 | 380 | 910 | 380 | 7 | 182 |
| 1000-10 |  | $<0.1$ | 2.3 | 60 | 290 | 290 | 154 | 6 | 92 |
| 1000-11 |  | 0.2 | 5.1 | 60 | 390 | 1040 | 387 | 6 | 214 |
| 1000-12 |  | 0.2 | 3.7 | 20 | 680 | 60 | 64 | 5 | 116 |
| 1000-13 |  | $<0.1$ | 3.1 | 10 | 300 | 80 | 58 | 8 | 55 |
| 1000-14 |  | 0.1 | 7.8 | $<10$ | 590 | 90 | 40 | 5 | 217 |
| 1000-15 |  | 0.3 | 10.6 | $<10$ | 1940 | 140 | 57 | 11 | 371 |
| 1000-16 |  | 0.3 | 15.0 | $<10$ | 910 | 70 | 9 | 4 | 31 |
| 1000-17 |  | $<0.1$ | 6.4 | $<10$ | 490 | 260 | 61 | 8 | 111 |
| 1000-18 |  | 0.2 | 3.2 | $<10$ | 130 | 60 | 14 | 4 | 31 |
| 1000-19 |  | $<0.1$ | 5.1 | $<10$ | 360 | 180 | 19 | 8 | 46 |
| 1000-20 |  | 0.2 | 8.3 | $<10$ | 1640 | 50 | 102 | 42 | 80 |
| 1000-21 |  | 0.5 | 12.1 | 10 | 2320 | 180 | 191 | 44 | 104 |
| 1000-22 |  | 0.3 | 11.0 | $<10$ | 2410 | 130 | 107 | 12 | 101 |
| 1000-23 |  | 0.4 | 17.9 | 20 | 4920 | 130 | 74 | 26 | 211 |
| 1000-24 |  | 0.5 | 15.0 | $<10$ | 6500 | 120 | 95 | 14 | 312 |
| 1000-25 |  | 0.1 | 2.2 | 20 | 400 | 570 | 305 | 7 | 118 |
| 1500-01 |  | 0.7 | 4.7 | 20 | 410 | 650 | 170 | 9 | 82 |
| 1500-02 |  | $<0.1$ | 4.1 | 60 | 120 | 1200 | 638 | 6 | 99 |
| 1500-03 |  | 1.2 | 5.8 | 50 | 160 | 800 | 948 | 7 | 65 |
| 1500-04 |  | $<0.1$ | 6.6 | 20 | 140 | 460 | 623 | 3 | 99 |
| 1500-05 |  | 0.2 | 4.0 | 30 | 130 | 270 | 445 | 4 | 60 |
| 1500-06 |  | 0.2 | 2.7 | 30 | 260 | 570 | 131 | 5 | 81 |
| 1500-07 |  | 0.2 | 4.6 | 20 | 340 | 770 | 216 | 10 | 56 |
| 1500-08 |  | 0.2 | 5.2 | 20 | 360 | 780 | 100 | 13 | 243 |
| 1500-09 |  | 0.6 | 18.8 | 30 | 400 | 680 | 247 | 15 | 104 |
| 1500-10 |  | 0.1 | 14.0 | $<10$ | 130 | 660 | 313 | $<2$ | 32 |
| 1500-11 |  | 0.3 | 5.9 | 50 | 130 | 690 | 671 | 7 | 53 |
| 1500-12 |  | $<0.1$ | 7.9 | 50 | 140 | 100 | 287 | 6 | 20 |
| 1500-13 |  | $<0.1$ | 0.8 | 10 | 70 | 510 | 607 | 4 | 398 |
| 1500-14 |  | 0.4 | 6.5 | 20 | 190 | 30 | 208 | 3 | 76 |

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Final : VC162969 Order: L-B Project1700-37,1000-01_25,1500-01_35
Report File No.: 0000019269

|  | Element <br> Method <br> Det.Lim. <br> Units |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Au | Ag | As | Cu | Zn | Pb | Mo | Co |
|  |  | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M | GE_MMI_M |
|  |  | 0.1 | 0.5 | 10 | 10 | 10 | 5 | 2 | 1 |
|  |  | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| 1500-15 |  | $<0.1$ | 6.3 | 40 | 150 | 340 | 346 | 5 | 181 |
| 1500-16 |  | 0.2 | 11.1 | 30 | 420 | 120 | 330 | 4 | 93 |
| 1500-17 |  | 1.1 | 3.5 | 60 | 220 | 190 | 234 | 13 | 75 |
| 1500-18 |  | 0.5 | 2.1 | 30 | 110 | 110 | 92 | 6 | 51 |
| 1500-19 |  | 0.1 | 7.6 | 10 | 150 | 60 | 233 | 4 | 95 |
| 1500-20 |  | 0.8 | 2.2 | 70 | 380 | 280 | 261 | 11 | 108 |
| 1500-21 |  | 0.1 | 1.9 | 30 | 120 | 380 | 573 | 6 | 83 |
| 1500-22 |  | 2.1 | 7.4 | <10 | 320 | 140 | 86 | 7 | 57 |
| 1500-23 |  | 0.3 | 1.1 | <10 | 1280 | 10 | 15 | <2 | 50 |
| 1500-24 |  | 0.3 | 8.9 | <10 | 1870 | $<10$ | 52 | 4 | 69 |
| 1500-25 |  | 0.3 | 0.6 | 10 | 30 | 80 | 350 | 14 | 28 |
| 1500-26 |  | 0.8 | 4.5 | <10 | 830 | 30 | 17 | 3 | 93 |
| 1500-27 |  | $<0.1$ | 0.7 | <10 | 110 | 170 | 212 | 3 | 125 |
| 1500-28 |  | <0.1 | 3.4 | 30 | 360 | 720 | 178 | 38 | 63 |
| 1500-29 |  | 1.8 | 1.3 | 20 | 770 | 50 | 83 | 13 | 74 |
| 1500-30 |  | 0.4 | 3.0 | 20 | 350 | 580 | 324 | 6 | 124 |
| 1500-31 |  | 0.3 | 4.3 | 10 | 310 | 40 | 127 | 3 | 30 |
| 1500-32 |  | $<0.1$ | 3.2 | 30 | 190 | 630 | 484 | 4 | 109 |
| 1500-33 |  | 0.1 | 3.5 | 20 | 1770 | 90 | 57 | 8 | 629 |
| 1500-34 |  | 0.2 | 5.3 | 30 | 3420 | 110 | 190 | 19 | 141 |
| 1500-35 |  | 1.2 | 1.7 | $<10$ | 430 | 120 | 220 | 5 | 28 |
| *Rep 1000-09 |  | $<0.1$ | 2.0 | $<10$ | 270 | 990 | 456 | 7 | 152 |
| *Rep 1500-10 |  | $<0.1$ | 11.7 | 10 | 130 | 500 | 284 | <2 | 30 |
| *Rep 1500-19 |  | 0.2 | 6.9 | 20 | 140 | 80 | 241 | 3 | 77 |
| *Rep 1500-28 |  | 0.1 | 3.3 | 30 | 290 | 670 | 182 | 37 | 54 |
| *Std MMISRM19 |  | 5.3 | 27.3 | 10 | 2280 | 2690 | 1200 | 12 | 372 |
| *BIk BLANK |  | $<0.1$ | $<0.5$ | $<10$ | <10 | <10 | <5 | <2 | <1 |
| *BIk BLANK |  | $<0.1$ | $<0.5$ | $<10$ | $<10$ | $<10$ | <5 | <2 | <1 |
| *BIk BLANK |  | $<0.1$ | $<0.5$ | <10 | <10 | <10 | <5 | <2 | <1 |

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## CALCULATED RESPONSE RATIOS (RR VALUES)




|  | AuRR | AgRR |  | AsRR |  | CuRR |  | ZnRR |  | PbRR |  | MoRR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1190-375W | 0 |  | 3 |  | 1 |  | 28 |  | 1 |  | 1 |  | 0 | 1 |
| 1190-362W | 12 |  | 3 |  | 1 |  | 61 |  | 6 |  | 4 |  | 3 | 2 |
| 1190-350W | 2 |  | 1 |  | 6 |  | 24 |  | 0 |  | 1 |  | 6 | 1 |
| 1190-312W | 4 |  | 1 |  | 1 |  | 3 |  | 0 |  | 0 |  | 0 | 0 |
| 1190-300W | 0 |  | 0 |  | 6 |  | 1 |  | 5 |  | 30 |  | 3 | 1 |
| 1190-287W | 0 |  | 1 |  | 6 |  | 2 |  | 5 |  | 1 |  | 1 | 1 |
| 1190-275W | 0 |  | 1 |  | 1 |  | 1 |  | 3 |  | 3 |  | 1 | 1 |
| 1190-262W | 6 |  | 4 |  | 1 |  | 14 |  | 0 |  | 1 |  | 1 | 1 |
| 1190-250W | 0 |  | 1 |  | 4 |  | 1 |  | 5 |  | 5 |  | 1 | 1 |
| 1190-237W | 2 |  | 2 |  | 2 |  | 2 |  | 3 |  | 1 |  | 1 | 1 |
| 1190-225W | 3 |  | 2 |  | 1 |  | 1 |  | 2 |  | 1 |  | 1 | 1 |
| 1190-212W | 10 |  | 6 |  | 1 |  | 8 |  | 1 |  | 0 |  | 1 | 1 |
| 1190-200W | 5 |  | 11 |  | 1 |  | 14 |  | 1 |  | 1 |  | 1 | 1 |
| 1190-187W | 3 |  | 7 |  | 1 |  | 2 |  | 1 |  | 1 |  | 1 | 1 |
| 1190-175W | 0 |  | 3 |  | 4 |  | 2 |  | 5 |  | 7 |  | 2 | 1 |
| 1190-162W | 0 |  | 1 |  | 6 |  | 1 |  | 11 |  | 15 |  | 2 | 2 |
| 1190-150W | 2 |  | 3 |  | 8 |  | 2 |  | 4 |  | 2 |  | 9 | 1 |
| 1190-125W | 2 |  | 6 |  | 6 |  | 1 |  | 2 |  | 2 |  | 2 | 1 |
| 1190-112W | 0 |  | 1 |  | 2 |  | 1 |  | 4 |  | 6 |  | 1 | 2 |
| 1190-100W | 1 |  | 1 |  | 8 |  | 1 |  | 10 |  | 9 |  | 2 | 1 |
| 1190-87W | 0 |  | 1 |  | 6 |  | 2 |  | 3 |  | 4 |  | 2 | 2 |
| 1190-75W | 0 |  | 1 |  | 6 |  | 1 |  | 3 |  | 3 |  | 1 | 2 |
| 1190-62W | 2 |  | 3 |  | 1 |  | 1 |  | 3 |  | 6 |  | 0 | 4 |
| 1190-50W | 4 |  | 7 |  | 10 |  | 1 |  | 6 |  | 4 |  | 3 | 1 |
| 1190-37W | 0 |  | 4 |  | 7 |  | 1 |  | 1 |  | 6 |  | 2 | 1 |
| 1190-25W | 0 |  | 1 |  | 12 |  | 1 |  | 5 |  | 5 |  | 2 | 1 |
| 1190-12W | 5 |  | 1 |  | 4 |  | 0 |  | 3 |  | 1 |  | 1 | 2 |
| 1190-0+00 | 21 |  | 4 |  | 4 |  | 1 |  | 5 |  | 6 |  | 2 | 1 |


|  | AuRR | AgRR |  | AsRR |  | CuRR |  | ZnRR |  | PbRR |  | MoRR |  | CoRR |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1315-400W | 18 |  | 5 |  | 2 |  | 13 |  | 1 |  | 14 |  | 58 |  |
| 1315-387W | 1 |  | 1 |  | 1 |  | 15 |  | 1 |  | 1 |  | 23 |  |
| 1315-362W | 28 |  | 0 |  | 1 |  | 205 |  | 1 |  | 1 |  | 49 |  |
| 1315-350W | 3 |  | 0 |  | 2 |  | 13 |  | 1 |  | 0 |  | 5 |  |
| 1315-325W | 3 |  | 1 |  | 4 |  | 25 |  | 1 |  | 1 |  | 4 |  |
| 1315-312W | 4 |  | 1 |  | 4 |  | 31 |  | 3 |  | 1 |  | 5 |  |
| 1315-300W | 0 |  | 0 |  | 6 |  | 1 |  | 1 |  | 1 |  | 3 |  |
| 1315-287W | 2 |  | 1 |  | 1 |  | 6 |  | 0 |  | 0 |  | 1 |  |
| 1315-275W | 14 |  | 2 |  | 1 |  | 37 |  | 1 |  | 1 |  | 12 |  |
| 1315-262W | 2 |  | 0 |  | 1 |  | 2 |  | 0 |  | 0 |  | 1 |  |
| 1315-250W | 6 |  | 2 |  | 2 |  | 28 |  | 1 |  | 0 |  | 3 |  |
| 1315-237W | 17 |  | 2 |  | 4 |  | 68 |  | 0 |  | 0 |  | 6 |  |
| 1315-225W | 9 |  | 3 |  | 2 |  | 3 |  | 1 |  | 1 |  | 1 |  |
| 1315-212W | 3 |  | 5 |  | 12 |  | 2 |  | 2 |  | 2 |  | 1 |  |
| 1315-200W | 2 |  | 1 |  | 8 |  | 2 |  | 7 |  | 7 |  | 2 |  |
| 1315-187W | 4 |  | 2 |  | 1 |  | 4 |  | 2 |  | 2 |  | 12 |  |
| 1315-175W | 4 |  | 3 |  | 1 |  | 1 |  | 2 |  | 4 |  | 1 |  |
| 1315-162W | 1 |  | 4 |  | 10 |  | 1 |  | 4 |  | 7 |  | 2 |  |
| 1315-150W | 1 |  | 2 |  | 6 |  | 1 |  | 8 |  | 5 |  | 5 |  |
| 1315-137W | 0 |  | 1 |  | 4 |  | 1 |  | 6 |  | 7 |  | 1 |  |
| 1315-125W | 5 |  | 4 |  | 2 |  | 3 |  | 3 |  | 3 |  | 5 |  |
| 1315-112W | 3 |  | 4 |  | 2 |  | 1 |  | 2 |  | 2 |  | 3 |  |
| 1315-100W | 5 |  | 3 |  | 4 |  | 1 |  | 8 |  | 6 |  | 1 |  |
| 1315-87W | 11 |  | 6 |  | 4 |  | 2 |  | 3 |  | 6 |  | 3 |  |
| 1315-75W | 12 |  | 5 |  | 6 |  | 2 |  | 4 |  | 9 |  | 3 |  |
| 1315-62W | 1 |  | 0 |  | 2 |  | 0 |  | 2 |  | 1 |  | 1 |  |
| 1315-50W | 2 |  | 0 |  | 6 |  | 0 |  | 3 |  | 1 |  | 1 |  |
| 1315-37W | 0 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  | 0 |  |
| 1315-25W | 2 |  | 1 |  | 10 |  | 1 |  | 8 |  | 4 |  | 2 |  |
| 1315-12W | 8 |  | 1 |  | 4 |  | 1 |  | 2 |  | 1 |  | 0 |  |
| 1315-0+00 | 13 |  | 3 |  | 4 |  | 1 |  | 4 |  | 3 |  | 1 |  |


|  | AURR | ACRR |  | ASRR |  | CURR |  | ZNRR |  | PBRR |  | MORR |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1500S-425W | 24 |  | 0 |  | 0 |  | 2 |  | 1 |  | 2 |  | 1 | 0 |
| 1500S-412W | 4 |  | 2 |  | 3 |  | 18 |  | 1 |  | 1 |  | 4 | 2 |
| 1500S-400W | 2 |  | 1 |  | 2 |  | 9 |  | 0 |  | 0 |  | 2 | 13 |
| 1500S-387W | 1 |  | 1 |  | 3 |  | 1 |  | 5 |  | 4 |  | 1 | 2 |
| 1500S-375W | 6 |  | 2 |  | 1 |  | 1 |  | 0 |  | 1 |  | 0 | 0 |
| 1500S-362W | 8 |  | 1 |  | 2 |  | 1 |  | 5 |  | 3 |  | 1 | 2 |
| 1500S-350W | 36 |  | 0 |  | 2 |  | 4 |  | 0 |  | 0 |  | 3 | 1 |
| 1500S-337W | 1 |  | 1 |  | 3 |  | 1 |  | 6 |  | 1 |  | 9 | 1 |
| 1500S-325W | 1 |  | 0 |  | 0 |  | 0 |  | 1 |  | 2 |  | 0 | 2 |
| 1500S-312W | 16 |  | 2 |  | 0 |  | 4 |  | 0 |  | 0 |  | 0 | 1 |
| 1500S-300W | 6 |  | 0 |  | 1 |  | 0 |  | 0 |  | 3 |  | 3 | 0 |
| 1500S-287W | 6 |  | 4 |  | 0 |  | 9 |  | 0 |  | 0 |  | 1 | 1 |
| 1500S-275W | 6 |  | 0 |  | 0 |  | 6 |  | 0 |  | 0 |  | 0 | 1 |
| 1500S-262W | 42 |  | 3 |  | 0 |  | 1 |  | 1 |  | 0 |  | 1 | 1 |
| 1500S-250W | 2 |  | 1 |  | 3 |  | 0 |  | 3 |  | 5 |  | 1 | 1 |
| 1500S-237W | 16 |  | 1 |  | 7 |  | 2 |  | 2 |  | 2 |  | 2 | 2 |
| 1500S-225W | 3 |  | 3 |  | 1 |  | 0 |  | 0 |  | 2 |  | 1 | 1 |
| 1500S-212W | 10 |  | 1 |  | 3 |  | 0 |  | 1 |  | 0 |  | 1 | 1 |
| 1500S200W | 22 |  | 1 |  | 6 |  | 1 |  | 1 |  | 2 |  | 3 | 1 |
| 1500S187W | 4 |  | 5 |  | 3 |  | 2 |  | 1 |  | 3 |  | 1 | 1 |
| 1500S-175W | 1 |  | 3 |  | 4 |  | 0 |  | 3 |  | 3 |  | 1 | 3 |
| 1500S-162W | 8 |  | 3 |  | 2 |  | 1 |  | 0 |  | 2 |  | 0 | 1 |
| 1500S-150W | 1 |  | 0 |  | 1 |  | 0 |  | 4 |  | 6 |  | 1 | 8 |
| 1500S-137W | 1 |  | 4 |  | 5 |  | 0 |  | 0 |  | 2 |  | 1 | 0 |
| 1500S-125W | 6 |  | 3 |  | 5 |  | 0 |  | 6 |  | 6 |  | 1 | 1 |
| 1500S-112W | 2 |  | 6 |  | 1 |  | 0 |  | 5 |  | 2 |  | 0 | 0 |
| 1500S-100W | 12 |  | 9 |  | 3 |  | 2 |  | 6 |  | 2 |  | 3 | 2 |
| 1500S-87W | 4 |  | 2 |  | 2 |  | 1 |  | 7 |  | 1 |  | 3 | 5 |
| 1500S-75W | 4 |  | 2 |  | 2 |  | 1 |  | 7 |  | 2 |  | 2 | 1 |
| 1500S-62W | 4 |  | 1 |  | 3 |  | 1 |  | 5 |  | 1 |  | 1 | 1 |
| 1500S-50W | 4 |  | 2 |  | 3 |  | 0 |  | 2 |  | 4 |  | 1 | 1 |
| 1500S-37W | 1 |  | 3 |  | 2 |  | 0 |  | 4 |  | 6 |  | 0 | 2 |
| 1500S-25W | 24 |  | 3 |  | 5 |  | 0 |  | 7 |  | 9 |  | 1 | 1 |
| 1500S-12W | 1 |  | 2 |  | 6 |  | 0 |  | 10 |  | 6 |  | 1 | 2 |
| 1500S-0 | 14 |  | 2 |  | 2 |  | 2 |  | 5 |  | 1 |  | 2 | 1 |



## APPENDIX C

FIELD NOTES

SAPLE LOCATION LINES 625S, 1000S, 1500S, 1700 S

LINE 625 South
Sample \# \& Line Station 62501-Base Line(B.L.) 0.00 62502-12.5 metres grid west 62503-25 netres west 62504-37.5 metres west 62505-50.0 metres west 62506-62.5 metres west 62507-75.0 metres west 62508-87.5 metres west 62509-100.0 metres west 62510-112.5 metres west 62511-125 metres west 62512-137.5 metres west 62513-150.0 metres west 62514-162.5 metres west 62515-175 metres west 62516-187.5 metres west 62517-200.0 metres west 62518-212.5 metres west 62519-225 metres west 62520-237.5 metres west 62521-250.0 metres west 62522-262.5 metres west 62523-275 metres west 62524-287.5 metres west 62525-300 metres west 62526-312.5 metres west 62527-325 metres west 62528-337.5 metres west 62529-350 metres west 62530-362.5 metres west 62531-375 metres west 62532-387.5 metres west 62533-400 metres west 62534-412.5 metres west 62535-425 metres west 62536-437.5 metres west 62537-450 metres west 62538-462.5 metres west 62539-475 metres west 62540-487.5 metres west 62541-500 metres west 62542-512.5 metres west 62543-525 metres west 62544-537.5 metres west 62545-550 metres west 62546-562.5 metres west 62547-575 metres west 62548-587.5 metres west 62549-600 metres west 62550-612.5 metres west 62551-625 metres west

| LINE 1000 South | LINE 1500 South | LINE 1700 South |
| :---: | :---: | :---: |
| Sample \# \& Line Station | Sample \# \& Line Station | Line Station |
| 100001-B.L 0+00 | 150001-B.L. 0+00 | 170001-B.L 0+00 |
| 100002-12.5 metres west | 150002-12.5 west | 17000-212.5 metres east |
| 100003-25 metres west | 150003-25 metres west | 17003-25 metres east |
| 100004-37.5 metres west | 150004-37.5 metres west | 17004-37.5 metres east |
| 100005-50 metres west | 150005-50 metres west | 170005-50 metres east |
| 100006-62.5 metres west | 150006-62.5 metres west | 170006-62.5 metres east |
| 100007-75 metres west | 150007-75 metres west | 170007-75.0 metres east |
| 100008-87.5 metres west | 150008-87.5 metres west | 170008-87.5 metres east |
| 100009-100 metres west | 150009-100 metres west | 170009-100.0 metres east |
| 100010-112.5 metres west | 150010-112.5 metres west | 170010-112.5 metres east |
| 100011-125 metres west | 150011-125 metres west | 170011-125 metres east |
| 100012-137.5 metres west | 150012-137.5 metres west | 170012-37.5 metres east |
| 100013-150 metres west | 150013-150 metres west | 1170013-50.0 metres east |
| 100014-162.5 metres west | 150014-162.5 metres west | 170014-162.5 metres east |
| 100015-175 meytres west | 150015-175 metres west | 170015-175.0 metres east |
| 100016-187.5 metres west | 150016-187.5 metres west | 170016-187.5 metres east |
| 100017-200 metres west | 150017-200 metres west | 170017-200.0 metres east |
| 100018-212.5 metres west | 150018-212.5 metres west | 170018-212.5 metres east |
| 100019-225 metres west | 150019-225 metres west | 170019-225 metres east |
| 100020-237.5 metres west | 150020-237.5 metres west | 170020-237.5 metres east |
| 100021-250 metres west | 150021-250 metres west | 170021-250.0 metres east |
| 100022-262.5 metres west | 150022-262.5 metres west | 170022-262.5 metres east |
| 100023-275 metres west | 150023-275 metres west | 170023-275.0 metres east |
| 100024-287.5 metres west | 150024-287.5 metres west | 170024-287.5 metres east |
| 100025-300 metres west | 150025-300 metres west | 170025-300.0 metres east |
|  | 150026-312.5 metres west | 170026-312.5 metres east |
|  | 150027-325 metres west | 170027-325 metres east |
|  | 150028-337.5 metres west | 170028337.5 metres east |
|  | 150029-350 metres west | 170029-350.0 metres east |
|  | 150030-362.5 metres west | 170030-362.5 metres east |
|  | 150031-375 metres west | 170031-375 metres east |
|  | 150032-387.5 metres west | 170032-87.5 metres east |
|  | 150033-400 metres west | 170033-00.0 metres east |
|  | 150034-412.5 metres west | 170034-412.5 metres east |
|  | 150035-425 metres west | 170035-425 metres east |
|  | 150036-437.5 metres west | 170036-437.5 metres east |
|  | 150037-450 metres west | 170037-450.0 metres east |

Sample Name Terrain Bush Sample Easting Northing | Depth |
| :--- |
| $(\mathrm{cm})$ |

| 62501 flat | log cut | silt | 288716 | 5360481 | 30 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 62502 hill | log cut | silt/clay | 288701 | 5360478 | 30 |
| 62503 hill | log cut | silt/clay | 288689 | 5360472 | 30 |
| 62504 hill/rocky | log cut | silt | 288671 | 5360470 | 30 |
| 62505 hill/rocky | log cut | silt | 288665 | 5360464 | 30 |
| 62506 flat/rocky | log cut | silt | 288654 | 5360456 | 30 |
| 62507 hill/rocky | log cut | silt | 288643 | 5360450 | 30 |
| 62508 skip all rock |  |  |  |  |  |
| 62509 hill/rocky | log cut | silt/clay | 288620 | 5360440 | 30 |
| 62510 hill/rocky | log cut | silt/clay | 288609 | 5360431 | 20 |
| 62511 Skip all rock |  |  |  |  |  |
| 62512 hill/rock | log cut | silt | 288588 | 5360422 | 20 |
| 62513 hill/rocky | log cut | silt/clay | 288573 | 5360418 | 20 |
| 62514 flat/rocky | log cut | silt/clay | 288567 | 5360418 | 20 |
| 62515 flat/rocky | log cut | silt | 288552 | 5360406 | 30 |
| 62516 flat/rocky | log cut | silt | 288541 | 5360404 | 30 |
| 62517 hill/rocky | log cut | silt/clay | 288529 | 5360396 | 30 |
| 62518 hill/rocky | log cut | clay | 288521 | 5360391 | 30 |
| 62519 hill/rocky | log cut | silt/caly | 288507 | 5360386 | 30 |
| 62520 flat/rocky | log cut | clay | 288499 | 5360384 | 30 |
| 62521 flat/swamp | alders | silt/caly | 288481 | 5360376 | 30 |
| 62522 flat/swamp | alders | clay | 288471 | 5360371 | 80 |
| 62523 flat/swamp | alders | silt/clay | 288461 | 5360366 | 100 |
| 62524 flat/swamp | alders | clay | 288452 | 5360362 | 150 |
| 62525 flat/swamp | alders | humus/sand | 288441 | 5360358 | 150 |
| 62526 flat | alder/spruce | silt/clay | 288427 | 5360351 | 30 |
| 62527 hill/rocky | alder/spruce | silt | 288413 | 5360347 | 30 |
| 62528 hill | alder/birch | silt/caly | 288405 | 5360343 | 30 |
| 62529 hill/rock | birch/spruce | clay | 288393 | 5360340 | 30 |
| 62530 hill/rock | birch/spruce | silt | 288380 | 5360330 | 30 |
| 62531 hill/rock | birch/spruce | silt | 288366 | 5360325 | 30 |
| 62532 hill/rock | birch/spruce | silt | 288358 | 5360319 | 30 |
| 62533 hill/rock | birch/spruce | silt | 288347 | 5360316 | 30 |
| 62534 hill/rock | birch/spruce | silt | 288336 | 5360313 | 30 |
| 62535 hill/rock | birch/spruce | silt | 288324 | 5360307 | 30 |
| 62536 hill/rock | spruce | silt/clay | 288313 | 5360298 | 30 |
| 62537 hill/rock | birch/spruce | sand | 288305 | 5360298 | 30 |
| 62538 Flat | spruce/poplar | sand/clay | 288289 | 5360291 | 30 |
| 62539 hill | spruce/poplar | sand/silt | 288280 | 5360287 | 30 |


| 62540 flat | spruce/poplar | sand/silt | 288269 | 5360281 | 30 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 62541 flat | spruc/birch | sand | 288259 | 5360275 | 30 |
| 62542 hill | spruc/birch | sand | 288243 | 5360268 | 30 |
| 62543 hill | alders | silt | 288234 | 5360265 | 30 |
| 62544 hill | poplar | sand | 288225 | 5360259 | 30 |
| 62545 skip all rock |  |  |  |  |  |
| 62546 hill | poplar | silt/clay | 288198 | 5360250 | 30 |
| 62547 hill | swampy | silt/clay | 288188 | 5360244 | 30 |
| 62548 flat/swamp | alders | humus | 288175 | 5360242 | 20 |
| 62549 hill/rocky | spruce/poplar | silt | 288169 | 5360235 | 30 |
| 62550 hilly/rock | spruce/poplar | silt/clay | 288155 | 5360229 | 30 |
| 62551 flat/rocky | spruce/poplar | sand | 288147 | 5360225 | 30 |
| 100001 hill/rocky | log cut | sand/caly | 288862 | 5360144 | 30 |
| 100002 hill/rocky | log cut | sand/caly | 288851 | 5360143 | 30 |
| 100003 hill/rocky | log cut | clay | 288841 | 5360143 | 30 |
| 100004 hill/rocky | log cut | sand/caly | 288824 | 5360127 | 30 |
| 100005 hill/rocky | log cut | sand/caly | 288813 | 5360130 | 30 |
| 100006 hill/rocky | log cut | sand/caly | 288807 | 5360120 | 30 |
| 100007 hill/rocky | log cut | sand/caly | 288794 | 5360121 | 30 |
| 100008 hill/rocky | log cut | sand/caly | 288784 | 5360114 | 30 |
| 100009 hill/rocky | log cut | loam/clay | 288771 | 5360108 | 30 |
| 100010 hill/rocky | spruce/poplar | sand/clay | 288759 | 5360102 | 30 |
| 100011 hill/rocky | spruce/poplar | sand | 288749 | 5360093 | 30 |
| 100012 flat | alders/poplar | silt/clay | 288732 | 5360093 | 30 |
| 100013 flat | alders/poplar | sand | 288718 | 5360090 | 30 |
| 100014 flat/swamp | alders/poplar | sand/clay | 288709 | 5360085 | 30 |
| $100015 \mathrm{flat} / \mathrm{swamp}$ | spruce/alders | clay | 288701 | 5360082 | 30 |
| 100016 flat/swamp | spruce/alders | silt/caly | 288690 | 5360070 | 30 |
| 100017 swamp/rocky | poplar | loam/clay | 288677 | 5360072 | 30 |
| 100018 swamp/rocky | spruce/alders | silt/clay | 288668 | 5360063 | 50 |
| 100019 swamp/rocky | cedar/alders | silt/clay | 288657 | 5360060 | 30 |
| 100020 swamp/rocky | cedar/alders | loam/clay | 288644 | 5360059 | 40 |
| 100021 swampy | alders/poplar | clay | 288634 | 5360047 | 40 |
| 100022 swampy | alders/poplar | silt/clay | 288618 | 5360041 | 30 |
| 100023 swampy | alders | sand/clay | 288610 | 5360038 | 30 |
| 100024 swampy | alders | clay | 288597 | 5360040 | 30 |
| 100025 hill/rocky | alders | sand/loam | 288579 | 5360026 | 30 |
| 150001 hill | log cut | sand | 289062 | 5359696 | 30 |
| 150002 hill/rocky | log cut | sand/clay | 289057 | 5359687 | 30 |
| 150003 hill/rocky | log cut | sand | 289037 | 5359688 | 30 |


| 150004 hill/rocky | log cut | sand | 289028 | 5359679 | 30 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 150005 hill/rocky | log cut | sand | 289018 | 5359679 | 30 |
| 150006 hill/rocky | log cut | silt/clay | 289005 | 5359673 | 30 |
| 150007 flat | log cut | silt/clay | 288995 | 5359670 | 30 |
| 150008 flat | log cut | silt/clay | 288981 | 5359662 | 30 |
| 150009 flat | log cut | silt/clay | 288975 | 5359657 | 30 |
| 150010 hill | log cut | silt | 288960 | 5359653 | 30 |
| 150011 hill/rocky | poplar | silt | 288946 | 5359644 | 30 |
| 150012 hill/rocky | poplar | silt | 288929 | 5359643 | 30 |
| 150013 hill/rocky | poplar | silt | 288922 | 5359637 | 30 |
| 150014 flat | poplar/spruce | silt/clay | 288911 | 5359635 | 30 |
| 150015 flat/rocky | poplar/spruce | silt/clay | 288896 | 5359627 | 30 |
| 150016 hill | spruce/poplar | silt | 288884 | 5359625 | 30 |
| 150017 hill | log cut | sand | 288878 | 5359618 | 30 |
| 150018 hill/rocky | log cut | silt/clay | 288862 | 5359613 | 30 |
| 150019 hill | log cut | sand | 288850 | 5359604 | 30 |
| 150020 hill/rocky | log cut | silt/clay | 288838 | 5359601 | 30 |
| 150021 hill/rocky | log cut | sand/clay | 288829 | 5359592 | 30 |
| 150022 flat/swampy | birch/spruce | loam/sand | 288815 | 5359586 | 30 |
| 150023 flat/swampy | birch/spruce | silt/clay | 288811 | 5359590 | 30 |
| 150024 flat/swampy | log cut | silt/clay | 288795 | 5359585 | 30 |
| 150025 hill/rocky | log cut | loam/sand | 288782 | 5359577 | 30 |
| 150026 flat/rocky | log cut | sand/clay | 288765 | 5359567 | 30 |
| 150027 flat/rocky | log cut | silt/clay | 288759 | 5359569 | 30 |
| 150028 flat/rocky | log cut | sand/clay | 288744 | 5359569 | 30 |
| 150029 flat/rocky | log cut | clay | 288740 | 5359555 | 30 |
| 150030 flat/rocky | log cut | sand | 288719 | 5359541 | 30 |
| 150031 hill/rocky | log cut | sand/clay | 288712 | 5359544 | 30 |
| 150032 hill/rocky | log cut | sand | 288704 | 5359541 | 30 |
| 150033 hill/rocky | log cut | silt/clay | 288689 | 5359535 | 30 |
| 150034 hill/rocky | log cut | silt/clay | 288675 | 5359529 | 30 |
| 150035 flat/rocky |  | silt/loam | 288666 | 5359529 | 30 |
| 150036 Skip swamp |  |  |  |  |  |
| 150037 skip swamp |  |  |  |  |  |
| 170001 hill/rocky | spruce/birch | silt | 289142 | 5359517 | 30 |
| 170002 hill/rocky | spruce/birch | silt | 289154 | 5359520 | 30 |
| 170003 hill/rocky | spruce/birch | silt/clay | 289167 | 5359519 | 30 |
| 170004 hill/rocky | spruce/birch | silt | 289179 | 5359529 | 30 |
| 170005 hill/rocky | spruce/birch | silt/clay | 289191 | 5359531 | 30 |
| 170006 hill/rocky | spruce/birch | silt/clay | 289201 | 5359536 | 30 |
| 170007 hill/rocky | spruce/birch | silt | 289209 | 5359540 | 30 |
| 170008 hill/rocky | spruce/birch | loam/silt | 289221 | 5359544 | 30 |
| 170009 hill/rocky | spruce/birch | silt/clay | 289234 | 5359547 | 30 |


| 170010 hill/rocky | spruce/birch | silt/clay | 289241 | 5359550 | 30 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 170011 hill/rocky | spruce/poplar | silt/clay | 289257 | 5359560 | 30 |
| 170012 hill/rocky | spruce/birch | silt/clay | 289265 | 5359564 | 30 |
| 170013 hill/rocky | spruce/birch | silt/clay | 289275 | 5359567 | 30 |
| 170014 hill/rocky | spruce/birch | silt/clay | 289296 | 5359570 | 30 |
| 170015 hill/rocky | spruce/birch | silt/clay | 289303 | 5359574 | 30 |
| 170016 hill/rocky | spruce/birch | silt/clay | 289310 | 5359578 | 30 |
| 170017 hill/rocky | spruce/birch | loam | 289322 | 5359586 | 30 |
| 170018 hill/rocky | spruce/birch | silt | 289343 | 5359594 | 30 |
| 170019 hill/rocky | spruce/birch | silt/clay | 289352 | 5359594 | 30 |
| 170020 hill/rocky | spruce/birch | silt/clay | 289362 | 5359598 | 30 |
| 170021 hill/rocky | spruce/birch | silt/clay | 289375 | 5359598 | 30 |
| 170022 hill/rocky | spruce/birch | silt/clay | 289391 | 5359605 | 30 |
| 170023 hill/rocky | spruce/birch | silt/sand | 289398 | 5359610 | 30 |
| 170024 hill/rocky | spruce/birch | silt/sand | 289408 | 5359614 | 30 |
| 170025 hill/rocky | spruce/birch | silt/sand | 289419 | 5359622 | 30 |
| 170026 hill/rocky | spruce/birch | silt/sand | 289436 | 5359619 | 30 |
| 170027 hill/rocky | spruce/birch | silt/sand | 289450 | 5359625 | 30 |
| 170028 hill/rocky | spruce/birch | silt | 289460 | 5359640 | 30 |
| 170029 hill/rocky | spruce/birch | silt | 289468 | 5359639 | 30 |
| 170030 hill/rocky | spruce/birch | silt | 289482 | 5359641 | 30 |
| 170031 hill/rocky | spruce/birch | silt | 289495 | 5359650 | 30 |
| 170032 hill/rocky | spruce/birch | silt | 289502 | 5359650 | 30 |
| 170033 hill/rocky | spruce/birch | silt/sand | 289519 | 5359655 | 30 |
| 170034 hill/rocky | spruce/birch | silt/sand | 289524 | 5359660 | 30 |
| 170035 flat | log cut/road) | sand | 289546 | 5359665 | 30 |
| 170036 hill/rocky | alder/poplar | silt/sand | 289552 | 5359672 | 30 |
| 170037 hill | alder/poplar | silt/sand | 289561 | 5359675 | 30 |

LINE 1315 SOUTH , Sampled July 28 \& 29, 2016, W. Troup

Location
0+00
12W (12Metres West)
25W
37W
50W
62W
75W
87W
100W
112W
125W
137W
150W
162W
175W
187W
187WA
200W
212W
225W
237W
250W
262W
275W
287W
300W
312W
325W
337W
350W
362W
375W
387W
400W

Sample Description
mixed brown/grey sandy $A / B$
mixed brown/grey sandy $A / B$
grey sandy $A / B$
grey sandy $A / B$
grey sandy $A / B$
brown/grey sandy $A / B$
brown/grey sandy $A / B$
brown sandy B
brown sandy gritty $B$
brown sandy gritty B
brown silty sandy clay
mixed brown/grey sandy $A / B$
mixed brown/grey sandy $A / B$
grey/brown sandy $A / B$
mixed brown/grey sandy $A / B$
brown sandy silty $A / B$
brown sandy silty $A / B$
brown sandy silty $A / B$
brown sandy silty $A / B$
grey brown silty sandy $B$
brown black sandy clay
black sandy clay
grey black clay rich
grey black clay rich
grey clay
black grey clay
black grey clay
black grey clay
NO SAMPLE
brown black clay or compact organics
brown-black organic rich?
NO SAMPLE
grey sandy clay
grey sandy clay

Comments, $0+00$ near base line
top of ridge dry-288996E/5359883N
slope steep down to West/thick alder and young spruce slope steep down to West/thick alder and young spruce slope steep down to West/thick alder and young spruce slope steep down to West/thick alder and young spruce slope steep down to West/thick alder and young spruce slope steep down to West/thick alder and young spruce base of hill/dry
damp
damp
East side of road, damp, white granite o/c in area
West side of road, road at $0288875 \mathrm{E} / 5359833 \mathrm{~N}$
low flat
low
low
low
low
low
low
low
dark organic rich
low, wet, deep organics
low, wet, deep organics
low, wet, deep organics
low, wet, deep organics
low, wet, deep organics
low, wet, deep organics
low, wet, deep organics
Deep Organics
Deep Organics
Deep Organics/old flag at site
Deep Organics/old flag at site
East side of white granite o/c
0288678E/5359672N

| LINE 1190 SOUTH, Sampled July 30 \& 31, 2016, W. Troup |  |  |
| :---: | :---: | :---: |
| Location | Sample Description | Comments, 0+00 near base line:0288975/5359980 |
| 0+00 | brown sandy A/B | Close to top of ridge, slope steep down to west |
| 12W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 25W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 37W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 50W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 62W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 75W | mixed brown/grey sandy $A / B$ | granite boulders in area, steep slope down to west |
| 87W | grey sandy A/B | base of steep slope/grnite o/c in area |
| 100W | grey brown sandy $B$ | gentle slope down to west |
| 112W | silty sandy B | gentle slope down to west |
| 125W | brown grey sandy $\mathrm{A} / \mathrm{B}$ | flat, east side of road |
| 137W | NO SAMPLE | ROAD |
| 150W | grey sandy A/B | low ground, dry |
| 162W | greysandy A/B | low |
| 175W | grey-brown sandy $A / B$ | low |
| 187W | silty grey A/B | low |
| 200W | brown clay | low |
| 212W | grey silty sandy A/B | low |
| 225W | grey clay | low |
| 237W | brown grey sandy $A / B$ | low |
| 250W | brown grey sandy $A / B$ | low |
| 262W | grey black clay rich | low, wet, deep organics |
| 275W | grey brown sandy $A / B$ | low, white granite o/c in area |
| 287W | grey brown sandy $A / B$ | low, white granite o/c in area |
| 300W | grey sandy silty $A / B$ | low, white granite o/c in area |
| 312W | sandy grey clay | low, wet, deep organics |
| 325W | NO SAMPLE | low, wet, deep organics |
| 337W | NO SAMPLE | Deep Organics |
| 350W | grey silty sandy clay | Deep Organics |
| 362W | grey black clay rich | low wet |
| 375W | grey black sandy clay | Deep Organics |

## APPENDIX D

## SOIL GEOCHEMICAL MAP-(Au)

$+$
DATA COMPILATION MAP




