

# **2018 Assessment Report Grey Copper Hill Property, Yukon**

**Beaver River Area  
NTS 106D/06 (Nash Creek)  
Lat. 64°26'16" N • Long. 135°15'28" W  
Mayo Mining District**

**Claims work applied to:  
Pickney 1-4 (YC39575 to YC39578)**

**Prepared for:**



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**Period of Work:  
June 23<sup>rd</sup>, July 3<sup>rd</sup>-5<sup>th</sup>, 2018**

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## Summary

The Grey Copper Hill property is located approximately 58 kilometers from Elsa, Yukon, in the Mayo Mining district at 64°26'16" N Latitude, 135°15'28" W Longitude. The property is located within the Selwyn Range of the Wernecke Mountains, is adjacent to the Carpenter River in the Beaver River drainage and is currently only accessible via helicopter. The property comprises four claims, Pickney 1-4 (YC39575-YC39578), which have a total area of 836,420 m<sup>2</sup>. All four claims are 100% owned by Metallic Minerals Corp (MMG). The property is surrounded by claims of the Rackla Gold Property, recorded by Archer Cathro and operated by ATAC Resources. MMG acquired these claims from Chris Thomas in the fall of 2017. This report covers the 2018 exploration program at Grey Copper Hill which occurred on June 23<sup>rd</sup> and July 3<sup>rd</sup>-5<sup>th</sup>, 2018. A total of \$11,895.38 was spent during the program which included prospecting, mapping, and rock and soil sampling.

Grey Copper Hill sits within the Ogilvie Platform directly north of the Selwyn Basin, separated by the Dawson thrust fault. This platform is a complex assemblage which is approximately 6 km thick and composed of predominantly shallow marine carbonate and clastic rocks. Regionally, Grey Copper Hill is mapped as underlain by the Gillespie Lake group in the north half of the property (thinly bedded, platy dolostone with variable sands, silts, and muds), and the Bouvette assemblage in the southern half (moderate to thickly bedded limestones and dolostones with reduced clastic sediments), with a very small section of the southern corner of the claim block as the Menzie Creek formation (volcanics).

Mineralization on the property has been historically documented as occurring in polymetallic Ag-Pb-Zn±Au veins which are characterized by tetrahedrite-pyrite-siderite quartz veins. A weak copper anomaly was also identified via drilling, which was underlain by altered greenstone dykes and sills which are cut by widely spaced and narrow quartz and calcite veins with disseminated chalcopryrite. This mineralization appears to be more coincident with skarn type mineralization, including the minerals magnetite, tetrahedrite, azurite, malachite, chalcopryrite, sphalerite, along with limonitic and manganese-oxide coatings.

The 2018 exploration program was completed over four days: June 23<sup>rd</sup> and July 3-5<sup>th</sup> 2018. This program included prospecting, reconnaissance mapping, as well as collection of both rock and soil samples. The work comprised a total of 10-man days with expenditures which totaled \$11,895.38.

In summary, the exploration program included:

- Prospecting and rock sampling for the MINFILE occurrence, which included several traverses down a prominent gulch to corroborate historic documentation of the location of mineralization,
- 1:5,000-scale reconnaissance mapping of the project area to corroborate historically documented geology and structure,
- One soil sampling campaign covering one grid.

Two days of prospecting took place during the 2018 program, with one day primarily focused on the identification and documentation of historic disturbance and workings on the property to focus staff on recognizing mineralization-style, and the second on identifying the location of the anomalously high silver rock sample that was collected in the 1920's, which was not located.

During a traverse, a gossanous outcrop was identified on the steep west side of the gulch which appeared to have skarn-type dyke mineralization, with magnetite, tetrahedrite, azurite, malachite, chalcopyrite, sphalerite, along with limonitic and manganese-oxide coatings. A dyke is believed to be acting as the mineralizing corridor and is hosted in altered, clay-rich mudstones to siltstones. Six continuous rock channel samples (over 6.3m) were collected from this location, with two samples returning elevated silver and copper values. While this location is difficult to access, this area remains of high interest for follow-up.

In combination with prospecting, MMG staff performed reconnaissance mapping during a traverse from the ridge at the southeast edge of the claim block downslope into the prominent central gully. This traverse was planned in order to evaluate and corroborate the previous mapping of this property. This mapping exercise allowed the staff to traverse the central cross-section of geological units comprising the claims and observe the mineralization-styles historically targeted on the property, as well as identify the skarn-type mineralization associated with an intrusive unit.

One soil sampling grid was conducted over 5 man-days. Following the return of the soil assays, a northwest trend of multiple elevated soils for the elements of Ag, Au, Cu, and Zn is apparent. This trend appears to be similar to the trend of a known fault in the centre of the gulch. Ground truthing and perhaps re-trenching and sampling should occur at this location in 2019 in order to validate these elevated soils.

Overall, the 2018 exploration program at Grey Copper Hill was deemed successful. Further detailed work needs to continue on the property in order to truly assess its potential. Prospecting led to the discovery of a dyke on the western flank of a gulch which hosts skarn-type mineralization. Six continuous channel samples were collected from this location, with several samples returning elevated silver and copper assay values. Reconnaissance mapping led to an increased understanding of the lithologies present on the property, and their control on mineralization-styles observed. Finally, soil sampling was completed on the eastern half of the property, which revealed several anomalies that should be followed up in the coming seasons.

The modest program completed in 2018 verified Grey Copper Hill's high potential to host veins of significant size and grade. No historic work documented the dyke-hosted mineralization observed, resulting in potential for additional exploration targets. The authors recommend doubling the days on the property in the coming seasons, allowing for increased and more detailed structural mapping, trenching, and rock sampling, to develop a more comprehensive understanding of the association between the lithologies present and mineralization-styles observed. In order to properly test the mineralization observed on the Grey Copper Hill property, the following recommendations are made:

- ground truth the area surrounding the historic cabin to follow up on historic highly-anomalous soils in the vicinity,
- perform detailed mapping traverses from the tree line up into the central canyon,
- aerial photography/LiDAR to identify prominent lineaments that may be associated with mineralization,
- mobilizing a Heli-portable excavator to test greenfield targets via trenching, and,
- VLF ground survey to aid in recognizing potential mineralizing structures on the property.

# 1 Introduction

This report summarizes the 2018 exploration program activities performed by Metallic Minerals Corp. This 2018 exploration program occurred over four days: June 23<sup>rd</sup> and July 3<sup>rd</sup> to 5<sup>th</sup>. Work included prospecting, reconnaissance mapping, along with geochemical soil and rock sampling. Ten total man-days were spent on the Grey Copper Hill property in 2018. All assay results, certificates as well as a description of the analytical techniques used, and location of all samples are provided. Current interpretations concerning mineralization and geological setting are based on work-to-date are also included, leading to recommendations for future exploration work.

## 1.1 Underlying Agreements & Land Tenure

The Grey Copper Hill property is located approximately 59 kilometers from Keno, YT, in the Mayo Mining district. The property is located in the Selwyn Range of the Wernecke Mountains (see **Figure 1**) adjacent to the Carpenter River in the Beaver River drainage and is currently only accessible via helicopter. The property is composed of four claims, Pickney 1-4 (YC39575-YC39578), which have a total area of 836,420m<sup>2</sup>. All four claims are 100% owned by MMG. The property is surrounded by claims of the Rackla Gold Property, recorded by Archer Cathro and operated by ATAC Resources. Metallic Minerals Corp. acquired these claims from Chris Thomas in the fall of 2017.

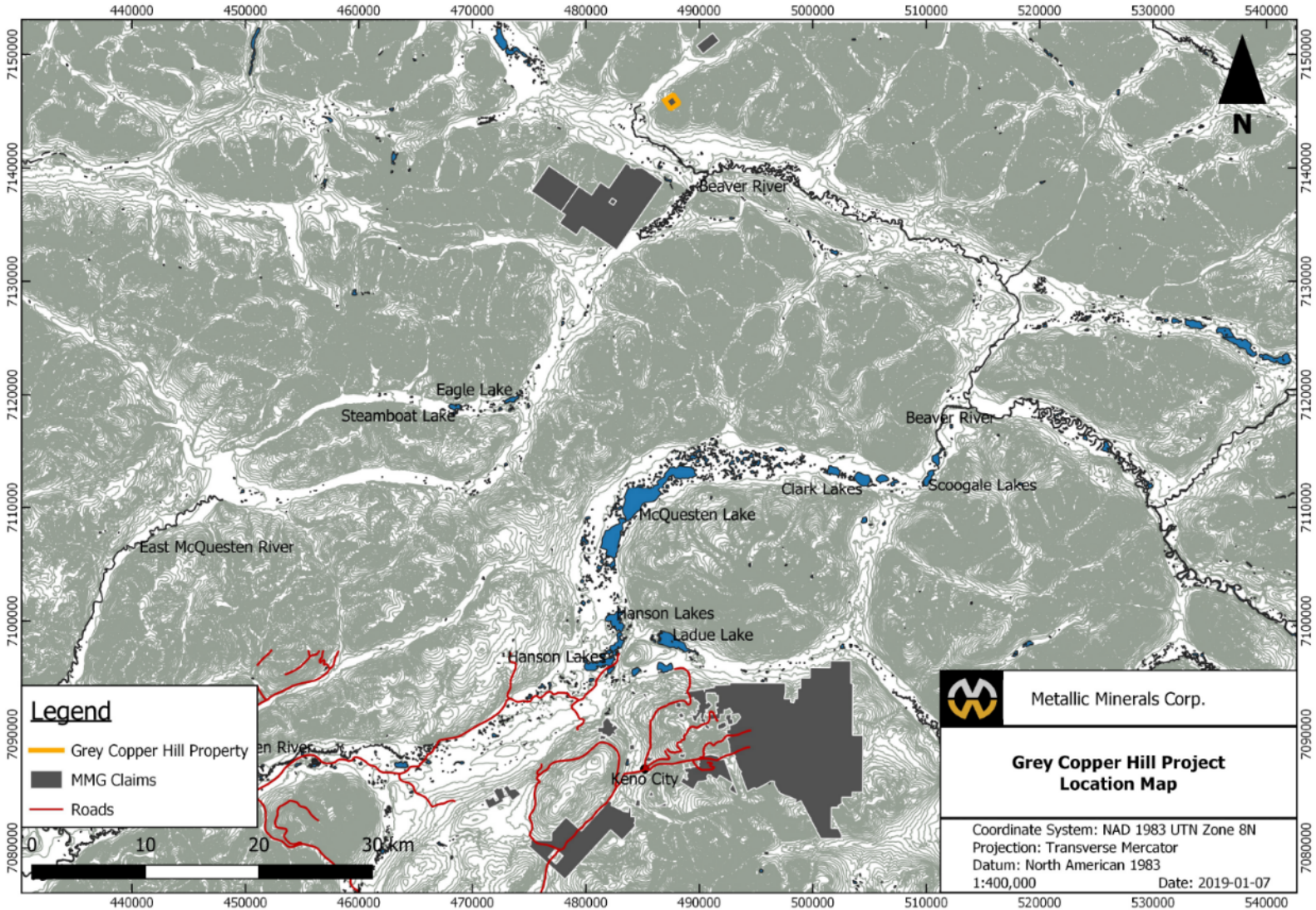
This report covers the four-day 2018 work program at Grey Copper Hill. A total of \$11,895.38 was spent during the program which included prospecting, mapping, and rock and soil sampling. **Table 1. Claim Status** tabulates the current land-package and current expiry data; **Figure 2. Grey Copper Hill Claims Map** (page 7) shows the location of the claims; and Appendix I. includes the statement of expenditures.

**Table 1. Claim Status<sup>1</sup>**

<b>Grant #</b>	<b>Claim Name</b>	<b>Claim Owner</b>	<b>Expiry Date</b>
<b>YC39575</b>	Pickney 1	Metallic Minerals Corp. -100%	2023-Aug-03
<b>YC39576</b>	Pickney 2	Metallic Minerals Corp. -100%	2023-Aug-03
<b>YC39577</b>	Pickney 3	Metallic Minerals Corp. -100%	2023-Aug-03
<b>YC39578</b>	Pickney 4	Metallic Minerals Corp. -100%	2023-Aug-03

<sup>1</sup> Claim expiry dates based on acceptance of submitted Assessment Report.

**Figure 1. Location & Access**

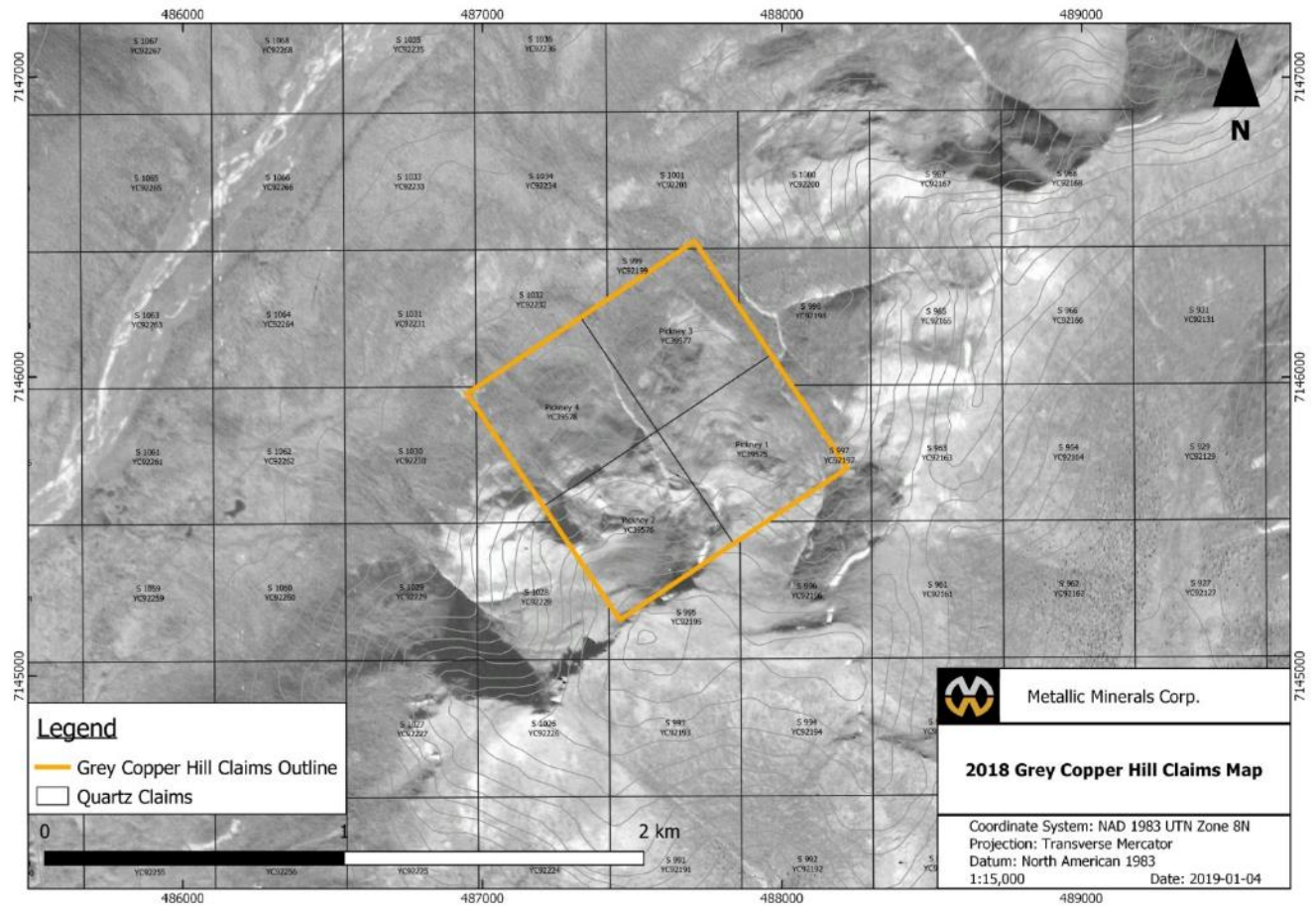


## 1.2 Location & Access

The Grey Copper Hill property is situated on the northwest slopes of Grey Copper Hill within the Selwyn Range of the Wernecke Mountains. The claims encompass two spur ridges that form a 'Y' with a central gulch that feeds into a small drainage to the adjacent Carpenter River. The Carpenter River, which is located approximately two kilometres west from the centre of the claim block, is in the Beaver River drainage within the Selwyn Range of the southern Wernecke Mountains (NTS map sheet 106D/06, Nash Creek). The property is located approximately 6 kilometres from the boundary of the ATAC controlled claims to the edge of MMG's McKay Hill property, and 33 kilometres north of McQuesten Lake. Grey Copper Hill is located within the Mayo Mining District, 59 kilometres north of Keno City, which is 465 kilometres by road to Whitehorse. The property is centered at 64°26'16" N Latitude, 135°15'28" W Longitude, and was accessed by helicopter from the townsite of Keno City. The closest road access is via Hanson Lake Road to McQuesten Lake from the Silver Trail Highway at km 102.1. As of writing, a 65 km tote road is in the process of being permitted by ATAC to access their Rackla Gold Project. This road

would branch off the Hanson Lake Road which is west of Keno City, and connect to ATAC's Tiger deposit and Rau airstrip.

**Figure 2. McKay Hill Claims Map**



### 1.3 Physiography & Climate

The claims are located on the northwestern flank of Grey Copper Hill, approximately three kilometres east of the Carpenter River within the south Wernecke Mountains. Elevations within the claim area range from approximately 1,200 to 1,600 m ASL.



*Photo-plate 1. LEFT: Looking down gulch (west) toward Carpenter River with historic cabin location on hillock in the distance. Showing is along left flank of gulch; Photo-plate 2. RIGHT: Typical topography of the district.*

The area experiences warm summers and long cold winters with relatively little precipitation. In the Mayo area summer temperatures average 15°C during the day and 9°C at night. Winter temperatures average -20°C during the day and -31°C at night. Water is available from unnamed headwaters that feed into the Carpenter River, as well as from the Carpenter River itself if deemed necessary. Most of the property lies above tree line with narrow ridge-tops and steep slopes.

## 2 Property History

The Grey Copper Hill property is comprised of the Grey Copper Hill MINFILE occurrence (106D 039) and has nearly a century of sporadic exploration—dating back to 1923—when the first claims were staked in the area. This original staking was associated with the Keno Hill staking rush, which resulted in prospectors venturing further north. During the 1920s these entrepreneurs gathered in ‘Beaver City’, a now-collapsed prospecting settlement that was located on the nearby Beaver River. As seen below, **Table 2** is a compilation and summary of all work performed on or in proximity to the Grey Copper Hill showing. This information is primarily based on the YGS’s MINFILE database (Deklerk and Traynor, 2008). **Figure 3** (page 10) presents the historic geochemical work completed between 1979 and 1989.

**Table 2. Property History**

October 1923	Originally staked by R. Fisher (Grey Copper King and King Tut claims- 14902) and L. Erickson (Silver Queen claim- 14901).
September 1924	J. McCloskey stakes the Grey Copper King fractional claim (16527) directly west of the Silver Queen claim.
1927	Langham and Forrest drive a 6.1m adit into outcrop on the Grey Copper King Fraction, while Fisher drives a 3m adit on the Grey Copper King claim. A boundary dispute ensues. A legal survey performed in August of 1927 resolves the dispute.
1929	The neighbouring Dominion claim has a 7.3m adit driven into it.
April 1951	Restaked by G. Dickson (Mac D claim- 61567), while excavating the historic adits.
July 1968	L. Proctor and P. Verslucce restake ground as the Jet claims 1-16 (Y26622) and the Fisher claims 17-19 (Y14998) & 20-47 (Y27001).
June 1969	An evaluation survey of the claims was performed by Proctor and Verslucce.



August 1972	Restaked by Cypress Resources Ltd. as FXE claims 1-16 (Y68390).
1974	Hesca Resources Corporation Ltd. restakes ground as Lin claims 1-24 (Y87280) in February of 1974. Later in the year, soil sampling, prospecting, hand trenching and re-opening of a historical adit was performed. Also, during this time, two X-Ray holes (56.3m) were drilled.
June 1978	Restaked by Prism Resources Ltd. as the Silver Hawk claims 1-16 (YA30639). Geophysical surveying and soil sampling were undertaken.
1979-1980	Prism Resources Ltd. performs added geochemical sampling on the claims.
August 1983-1984	H. Moritz restakes area as Nancy Bea claims 1-8 (YA77313) in August 1983 and follows up with hand trenching in 1984.
1988	Restaked by C. Thomas and A. Smith as TAF claims 1-16 (YB2079) in February 1988, with mapping of the claims occurring later in the year.
October 1994	D. Hajek restakes vein with several small claims. According to the MINFILE it was noted the actual vein appears to be encompassed by White claims 9 & 10 (YB43403) (original source could not be found). Claims staked simultaneously with the above include Lucky Ace 1-2, Lucky Jane 3-4, Lucky 5-6, Ate 7-8, Blue 21-24, Junniper 25-26, Tarmigan 11-12, and Eat 13-14
August 2005	Area restaked as Pickney claims 1-4 (YC39575) by C. Thomas
September 2017	Claims acquired by Metallic Minerals Corp.

## 2.1 Grey Copper Hill (106D 039) Showing

Grey Copper Hill was discovered by R. Fisher in fall 1923, when abundant tetrahedrite float was found on a west facing ridge (Cockfield, 1924). This led to the first staking of the ground, with the Grey Copper King claim (Fisher) and the Silver Queen claim (Erickson) in October of the same year. Cockfield (1924) notes that only one in-situ vein was identified (on the Grey Copper King claim) which was composed of siderite, tetrahedrite, and pyrite, along with minor quartz, azurite, and malachite. This vein was described as being several hundred feet above tree line on the north side of a gulch. It was believed to strike 10 degrees west and dip at 78 degrees southwest. A 16-inch wide exposed vein was sampled and assayed, returning 52 oz/ton silver. Float collected from the two adjoining claims (King Tut and Silver Queen) during this time ran up to 1,100 oz/ton at the head of the gulch' (Cockfield, 1924). As noted in Carlyle (1989), documentation of this period of exploration is, aside from partial records from a court case in 1927 and settled in 1928 which was concerning land ownership. Erickson won the suit, which led to Fisher losing a portion of his Grey Copper King claim.

After several decades of no recorded activity, United Keno Hill Mines Ltd. assessed the area in the summer of 1960 while performing regional exploration of the area. Four claims were staked after identifying the historically documented siderite, tetrahedrite, pyrite, malachite, and azurite. Since these samples returned very low gold and silver values, the claims were never recorded (Carlyle, 1989). Eight years later, the area was restaked as the Fisher and Jet claims by Peter and Harry Verslucce. Hilker (1969) performed work on these claims in the summer of 1969 and reports finding two weakly mineralized quartz veins approximately 2000 feet from each other.

According to the MINFILE (Deklerk & Traynor, 2008), these claims were acquired by Hesca Resources Corporation Ltd. in 1974. Soil sampling, prospecting, hand trenching, and re-opening a historical adit were noted to have occurred in the summer of 1974. Along with this, two X-Ray holes totaling 56.3m

were drilled (Deklerk & Traynor, 2008). The location of these drill holes and the soil samples are unknown to the authors at this current time. No further work was completed, and the claims were dropped.

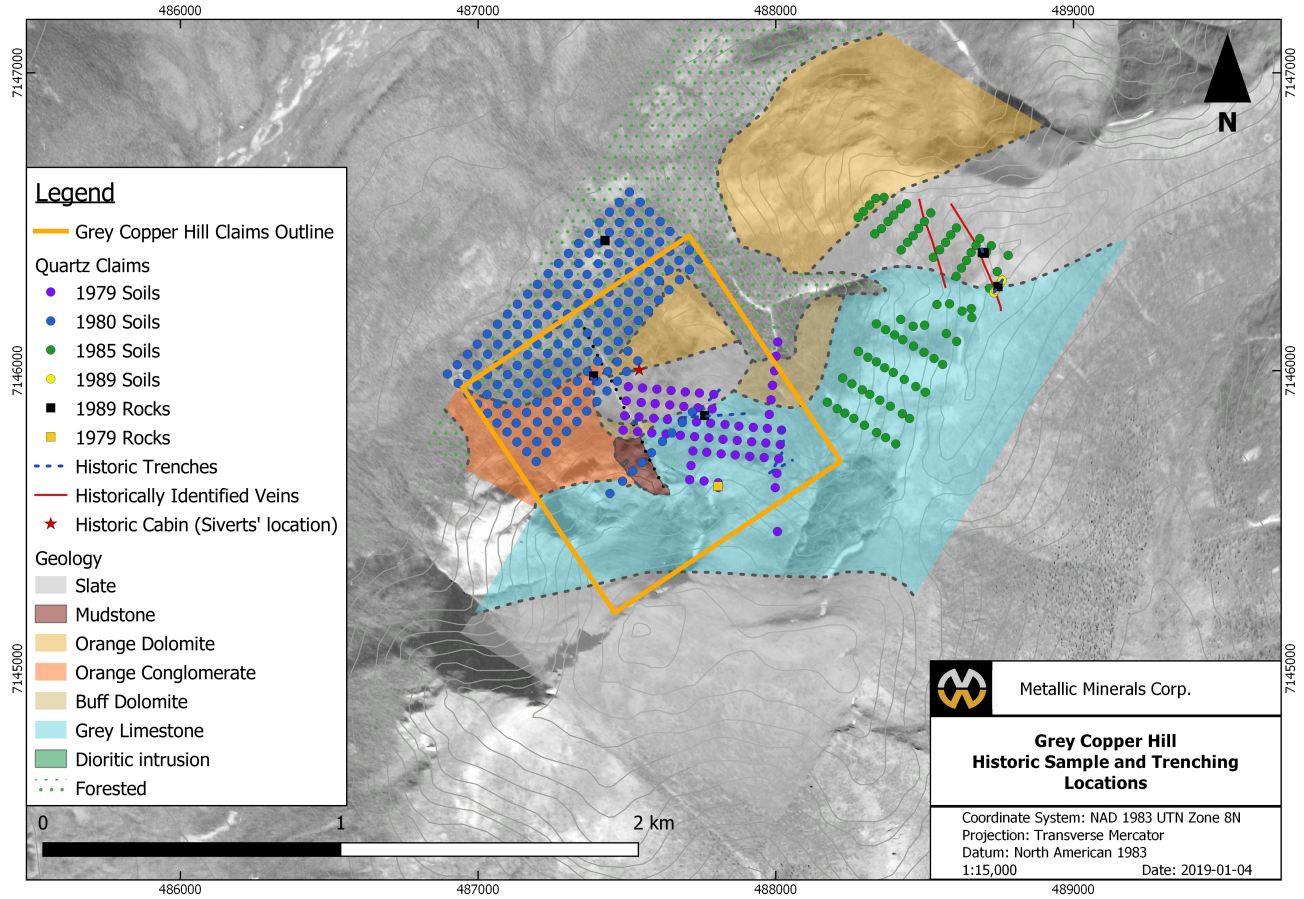
In 1978, Prism Resources Ltd. acquired the re-staked ground (now Silver Hawk claims 1-16) and performed two seasons of geochemical sampling and prospecting (1979 & 1980), with 59 soils collected in 1979 and 174 soils collected and assayed in 1980 (Sivertz, 1980). Sivertz (1979) notes that a float sample was collected high up in the gulch that was pure tetrahedrite and assayed 6,375 g/t Ag. Prism Resources also collected a sample from the old adit that assayed 4.92% Cu and 2,184 g/t Ag (Sivertz, 1980). This geochemical data has been compiled (based on the best of the authors' knowledge via reinterpretation of historic figures and maps) and is presented in **Figure 3** (following page). Sivertz (1980) also notes that two percussion drill holes were identified near the cabin on the 1980 soil grid. The location of the cabin in **Figure 3** has been estimated based on maps drawn by Sivertz (1980), but as of yet the area surrounding it has not been ground truthed. It is believed that these drill holes must be the 1974 X-Ray drill holes that were drilled by Hesca Resources. Claims were allowed to lapse.

In 1983 the ground was staked by Horst Moritz and was followed up with a non-systematic soil sampling program (75 soils total) in order to identify the high-grade float source mentioned by Cockfield. Several silver soil anomalies were noted that appear to correspond with structural lineations identified on air photos (UKHM, 1985). It was noted that Moritz recommended hand-held VLF and magnetometer surveys be performed in the areas of interest, along with mobilizing an excavator to the area in order to trench these structures and get through the abundant float (UKHM, 1985). Claims expired after no further work was completed.

In February of 1988, the ground was restaked by C. Thomas and A. Smith (Bonventures Ltd.) as the TAF claims. Between 1988 and 1989, blast trenching, soil, and rock sampling was completed, which included a total of 6 soils (collected from inside the blast trench) and 10 rock samples (Carlyle, 1989). Carlyle (1989) also notes that the south ridge of the gulch has a gossanous zone with pyrite and malachite and azurite fracture fillings located between two historic adits. This was the last recorded program at Grey Copper Hill.

The claims were restaked as Pickney 1-4 in 2005 by C. Thomas and acquired by Metallic Minerals Corp. in the fall of 2017.

**Figure 3. Historic Geochemical Sampling.**



### 3 Regional and Property Geology

#### 3.1 Regional Geology and Tectonic Setting

The Grey Copper Hill property is located on the 1:250,000-scale Mayo (106D) map-sheet and the 1:50,000-scale Nash Creek map-sheet (106D/06). The most up to date mapping of the area was completed by the Geological Survey of Canada (GSC) in 1961 by L.J. Green and J.A. Roddick (Green, 1972).

The Grey Copper Hill property is part of the Omineca Belt within the Ancestral North American terrane. The Omineca Belt is composed of a poorly understood Neoproterozoic to late Paleozoic assemblage of alternating basin (Selwyn Basin) and platform (Mackenzie, Ogilvie, and Porcupine Platforms) sequences occurring in sheets distinguished by a series of regional scale thrust faults. Grey Copper Hill sits within the Ogilvie Platform, which is part of the Yukon Block which sits directly north of the Selwyn Basin, bounded by the Mesozoic Dawson Thrust (Abbott, 1997). As noted by Abbott (1997), the Yukon Block is a complex assemblage which is approximately 6 km-thick and composed of primarily shallow marine carbonate and clastic rocks. Minor volcanics that have been dated between Lower to Middle Proterozoic are also present throughout. The Yukon Block is interpreted as a crustal block that is isostatically

independent and bounded to the south by the Selwyn Basin, to the east by the Richardson Trough, with its western and northern boundaries still unclear at this time (Abbott, 1997).

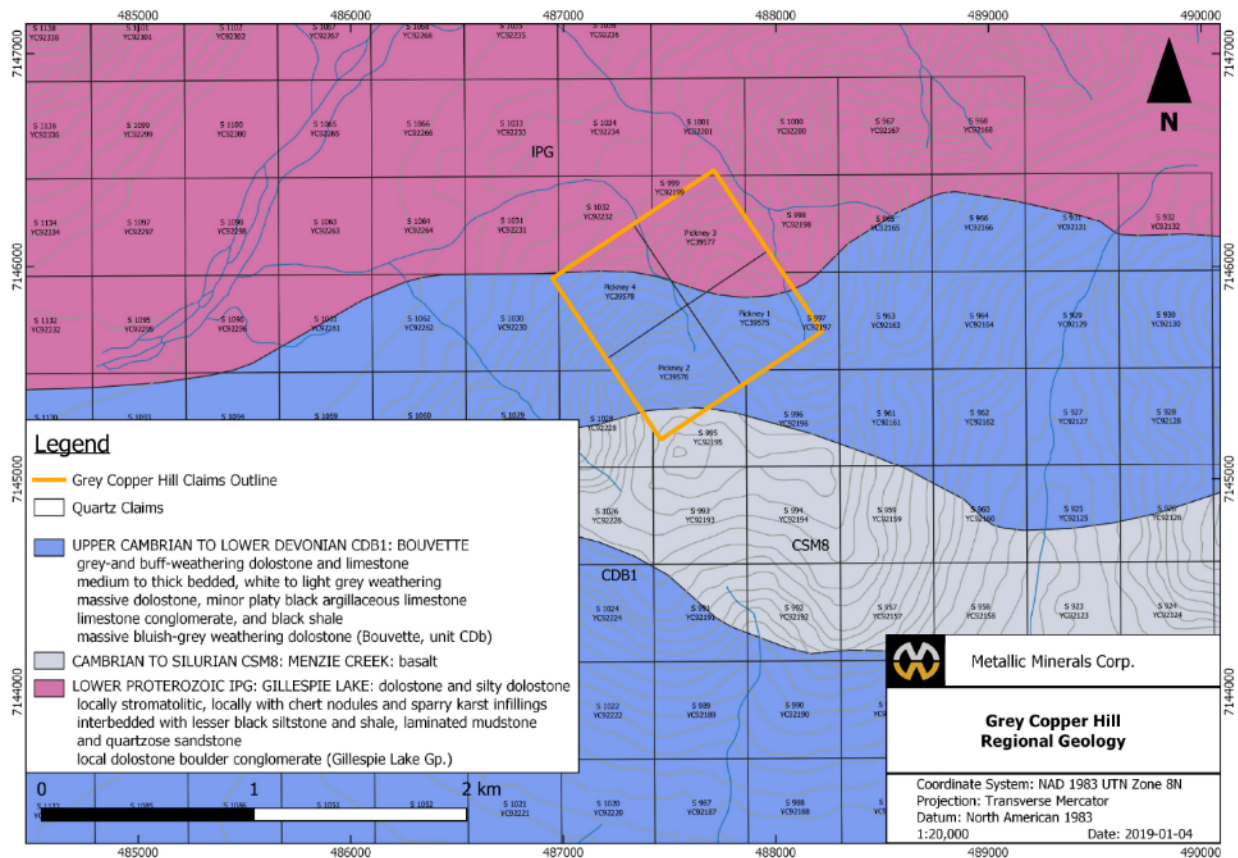
As seen in **Figure 4**, the Grey Copper Hill property is primarily encompassed by the Gillespie Lake group in the north half of the property, and the Bouvette assemblage in the south half of the property, with a very small section in the southern corner of the claim block as the Menzie Creek formation volcanics.

The Gillespie Lake group (Lower Proterozoic), which is documented as encompassing the northern half of the property, is distinguished by the presence of orange to buff coloured dolostone which tends to be platy and thinly bedded (Abbott, 1997). This group tends to be well-bedded with variable amounts of shales, silts, and locally, sands. Abbott (1997) notes that a recessive black to dark grey shale unit (between 10-100m thick) is included in this group. Gordey & Makepeace (2003) describe the group similarly, but also note that stromatolites are present throughout, along with local chert nodules and sparry karst infillings which are interbedded with siltstones, shales, quartz-rich sandstones, laminated mudstones, and local dolostone boulder conglomerates.

In the southern half of the property is the Bouvette assemblage, which is Upper Cambrian to Lower Devonian in age, and is characterized by grey to buff dolostone and limestone (which tend to be medium to thickly bedded), minor argillaceous limestone (black and platy), conglomeratic limestone, and black shale (Gordey & Makepeace, 2003). This unit is distinguished from the Gillespie Lake by the lesser amounts of clastic sediments.

A small fraction of the southernmost quadrant of the property is underlain by the Cambrian to Silurian Menzie Creek assemblage, which is composed of mafic volcanic rocks, including tuffs, and minor argillites and limestones (Gordey & Makepeace, 2003).

**Figure 4. Regional Geology**



### 3.2 Grey Copper Hill Property Geology

While regional mapping of the surrounding area was performed by Green in 1972, the first property-scale geological map was generated by Carlyle in 1989 and documented in an assessment report of what was then the Taf claims (YB2079). This property-scale geological map (which was modified by the mapping performed during the 2018 exploration program) can be seen in **Figure 5**. All units mentioned below were identified by Carlyle, except for units 2 (mudstone) and 7 (diortitic intrusion), which were discovered during the 2018 field season, and consequently added to the map. The following is taken from Carlyle (1989):

*The oldest rocks thought to exist on the property are the dark grey to black slates (Unit 1). This unit and the black limestone above it are thought to be discontinuous. The slate is layered between ½ to 2 inches. The black limestone is thick-bedded with contorted lenses of white calcite. Some of these lenses are curved resembling replaced shell fossils.*

*Above the slate and separated by a sharp contact is an orange weathering silicified dolomite (Unit 3). This dolomite is thinly interbedded dolomite and argillite which exhibits very prominent small and medium folding and differential weathering. The folding may be the expression of compressional pressure placed on the Proterozoic rocks by the Ordovician-Silurian rocks being thrust over them. The interbeds of dolomite and argillite are approximately ½ inch thick. The*

*dolomite layers are more resistant to weathering probably due to silicification. Occasional white vuggy quartz stringers up to 5 inches thick (most are ½ inch) cut the dolomite.*

*On the southwest end of Grey Copper Hill, this orange weathering dolomite appears to grade into an orange weathering dolomite conglomerate (Unit 4). The dolomite cements dark grey, rounded limestone boulders; most are approximately 4 inches in diameter. The conglomerate is strongly foliated with some weak folding.*

*Only two rock types of this age [Ordovician to Silurian] are recognized in the Grey Copper Hill area. The lower of these two units is a medium-bedded, buff weathering dolomite (Unit 5). The upper unit is a blocky, thick-bedded, light grey to white limestone (Unit 6). The limestone-dolomite contact appears to be relatively flat lying.*

Carlyle (1989) also notes an inferred prominent fault running down the centre of the gulch, which was corroborated during the 2018 exploration program, with the identification of mudstone (Unit 2) along the west side of the gulch, juxtaposed by limestone on the east and bounded by multiple occurrences of gouge material in the centre of the gulch.

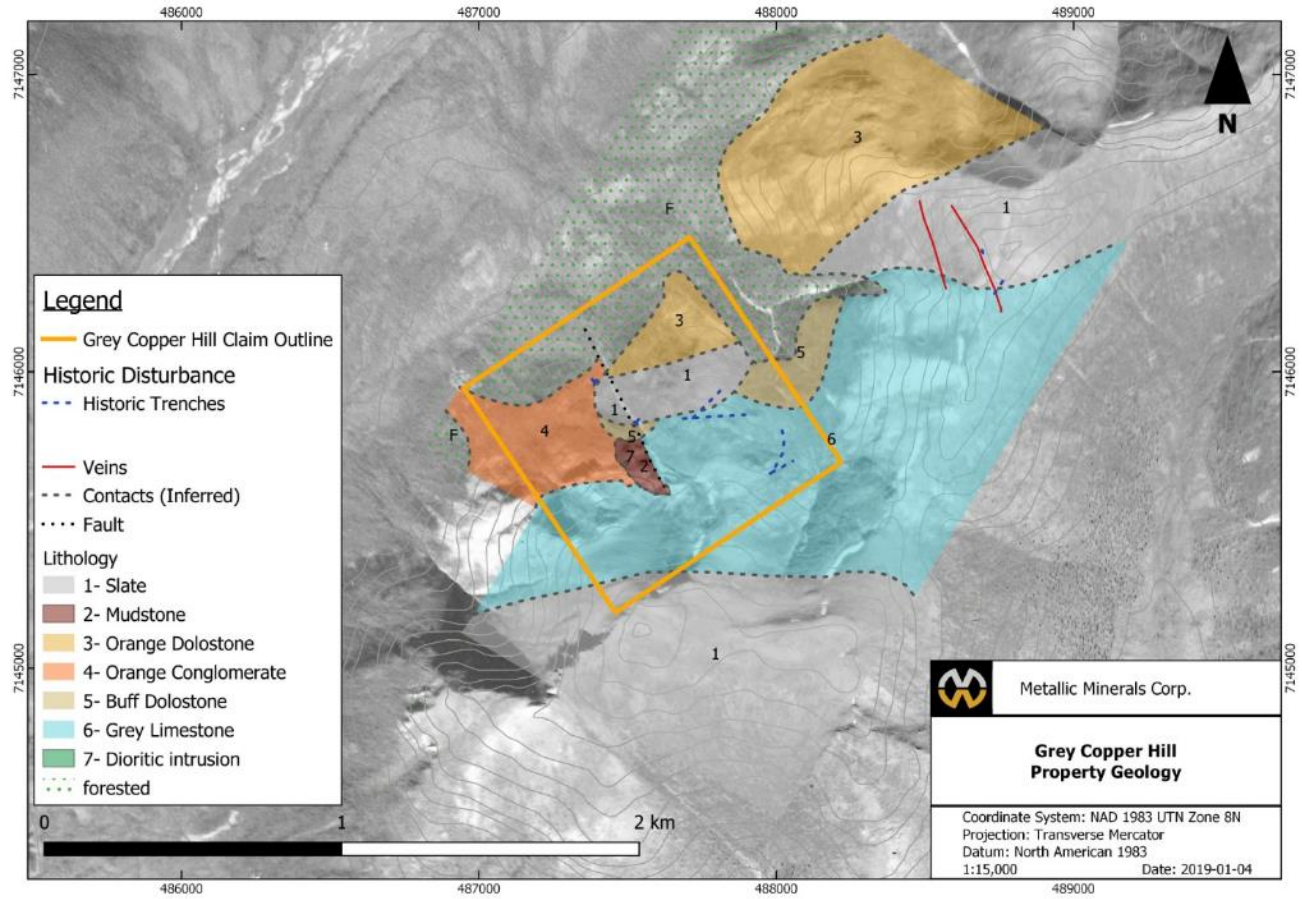
A small (2 x 5m) outcropping of highly oxidized diorite intrusive (Unit 7) was identified within the mudstone unit close to the contact of the conglomerate (Unit 4). This appears to be associated with the Ag-Zn-Cu mineralization that was identified during the 2018 exploration program.

## **4 Mineralization Style & Deposit Type**

The Grey Copper Hill MINFILE occurrence 106D 039 has historically been explored for polymetallic Ag-Pb-Zn+/-Au veins. As noted above, R. Fisher made a discovery of tetrahedrite float in 1923, which led to the interest in the area (Cockfield, 1924). Cockfield notes that there was evidence that the deposit is characterized by tetrahedrite-pyrite-siderite veins which are 'somewhat similar in type to those occurring on Keno Hill, except that...no galena was noted on Grey Copper Hill' (1924). It was during this initial rush that a chip sample assayed 1,782.8 g/t Ag (Deklerk & Traynor, 2008). To date, the true location of this sample has not been identified. In 1969 a mineralized quartz vein containing siderite, chalcocite, sphalerite, and chalcopyrite were found at old workings (Hilker, 1969).

Deklerk & Traynor (2008) also note that a weak copper anomaly was drilled in 1974 by Hesca Resources, which was underlain by altered greenstone dykes and sills which are cut by widely spaced and narrow quartz and calcite veins with disseminated chalcopyrite. As documented further in Section 5.1, this is similar to the mineralization that was discovered during the 2018 exploration program, where a highly oxidized intrusive dyke was found to host copper oxides and minor tetrahedrite along the footwall of the dyke. This mineralization appears to be more coincident with skarn type mineralization, including the minerals magnetite, tetrahedrite, azurite, malachite, chalcopyrite, sphalerite, along with limonitic and manganese-oxide coatings. There are several 10 cm-thick quartz veins containing sphalerite, pyrite, tetrahedrite, and chalcopyrite which are hosted in the dyke. The mineralization appears to occur on the hanging wall and footwall of the dyke, leading to the belief that the intrusion acts as a corridor for mineralizing fluids.

**Figure 5. Property Geology (modified from Carlyle, 1989).**



## 5 2018 Work Program

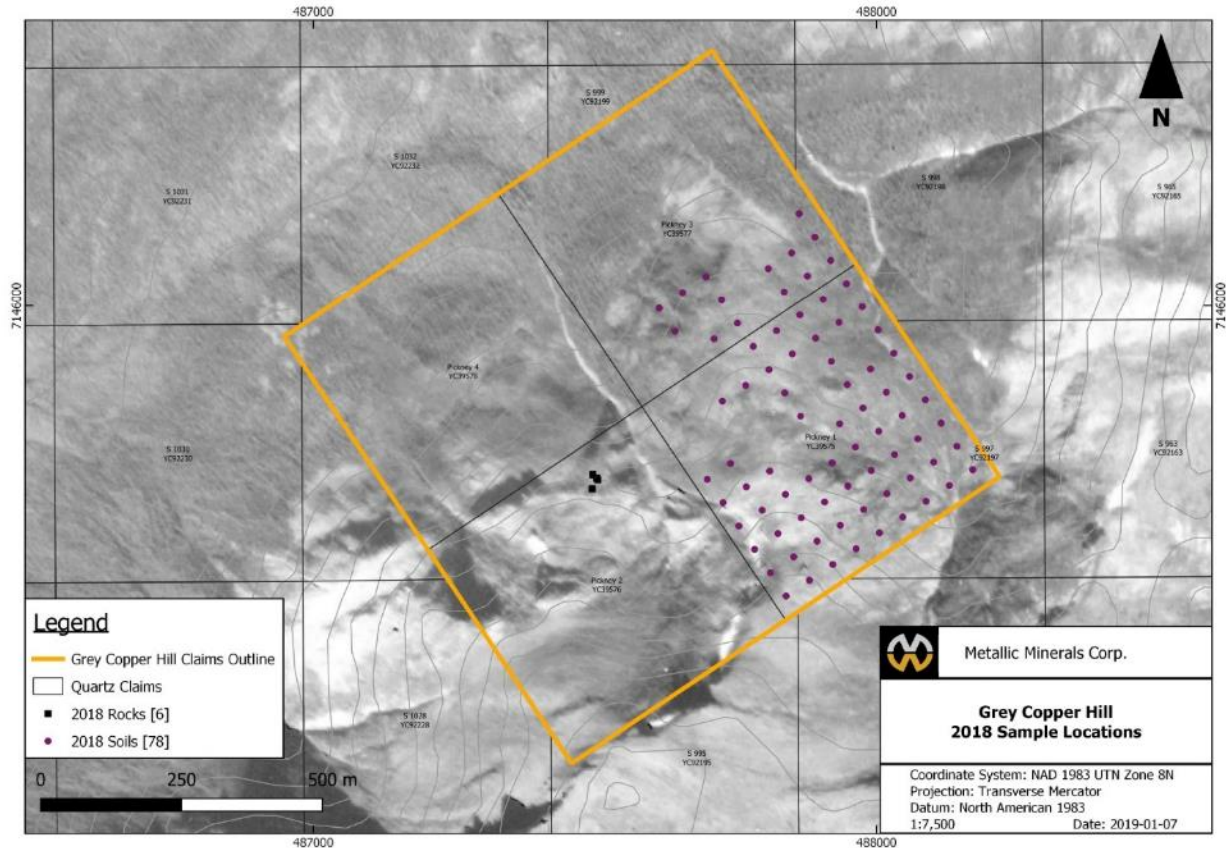
The 2018 exploration program was completed over four days: June 23<sup>rd</sup> and July 3-5<sup>th</sup> 2018. This program included prospecting, reconnaissance mapping, along with collection of both rock and soil samples. The work comprised a total of 10-man days with expenditures totaling \$11,895.38.

In summary, the exploration program included:

- Prospecting and rock sampling for the MINFILE occurrence, which included several traverses down the prominent central gulch to corroborate historic documentation of the location of mineralization,
- 1:5,000-scale reconnaissance mapping of the project area to corroborate historically documented geology and structure,
- One soil sampling campaign covering one grid.

The locations of all 2018 samples can be seen in **Figure 6** (following page).

**Figure 6. 2018 Sample Locations**



## 5.1 Prospecting

Two days of prospecting took place during the 2018 program. Ground truthing of proposed findings presented in historical documents on the property led to the identification of multiple historic workings, including four trenches, one hand pit, one drill pad, one adit (collapsed), and the remains of a small 2x2m building. The location of the historic cabin documented by both Cockfield (1924) and Sivertz (1980) was located by air at the base of the gulch but not visited. The second goal of the prospecting was to identify the location of the anomalously high silver rock sample that was collected in the 1920's, this was not relocated during the program.

During a traverse down the gulch in the centre of the property, a gossanous outcrop was identified on the west side of the gulch. Upon further inspection, this zone appeared to have skarn-type mineralization, with magnetite, tetrahedrite, azurite, malachite, chalcopyrite, sphalerite, along with limonitic and manganese oxide coatings. A dioritic intrusion (220°/60°) is believed to be acting as the mineralizing corridor, and is hosted in altered, clay-rich mudstones to siltstones. Six rock samples were collected from this location and sent in for geochemical analysis to Bureau Veritas. Results are reported in **Table 3** (anomalous values in bold). **Figures 7-11** illustrate compiled geochemical results from the 2018 work program along with all historically recorded geochemical data.





LEFT Photo-plate 3. Hanging wall (1480010) and footwall (1480011) channel samples of skarn-type mineralization. RIGHT Photo-plate 4. Channel sample 1480012 and 1480013 of skarn-type mineralization with visible copper oxide coating below dioritic dyke.

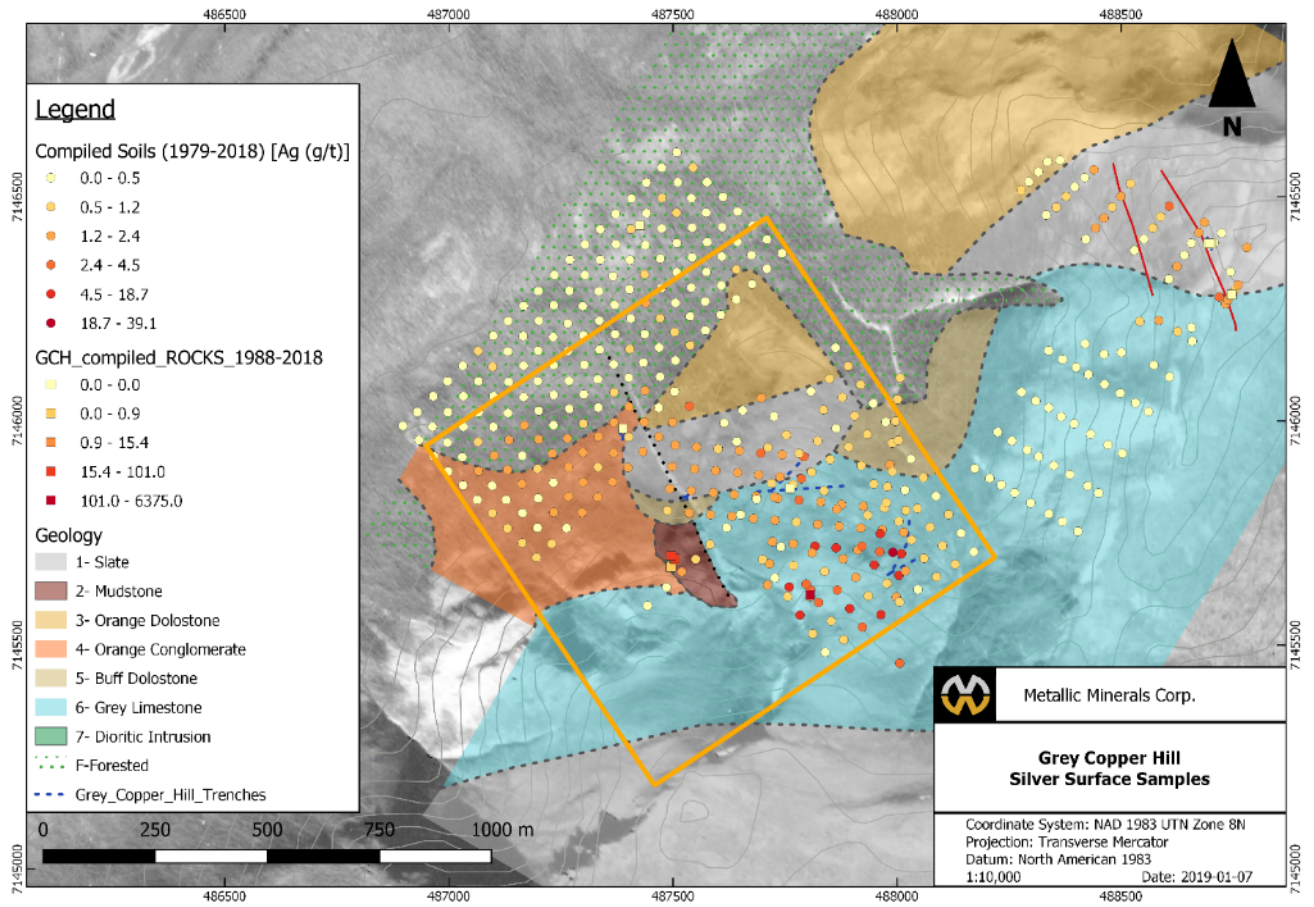
### 5.1.1. Rock Sampling- Geochemical Analysis

Six rock samples of skarn-type mineralization were collected during the 2018 work program. These rocks were sent in for geochemical analysis (full results can be found in **Appendix II**). Samples were sent to Bureau Veritas in Whitehorse for assaying and multiple packages were used to properly evaluate the precious metal concentrations, from low- to high-grade. Sample preparation consisted of crushing, split and pulverize 250 g of rock to 200 mesh. Sample splits of 0.5 g were then leached in hot modified Aqua Regia (partial digestion). Thirty grams of the total sample were then analysed for 36 elements using inductively coupled mass spectrometry (ICP-ES/MS) analytical technique. Samples with over limit ( $\geq 0.01\%$ ) Cu, Pb and Zn concentrations were assayed by titration and over limit ( $\geq 10$  ppm) Au and Ag samples were analysed by fire assay and gravimetric methods. As seen in **Table 3**, samples 1480012 and 1480252 returned approximately 100 g/t silver, and anomalously high copper values. This area is of high interest for follow up in 2019.

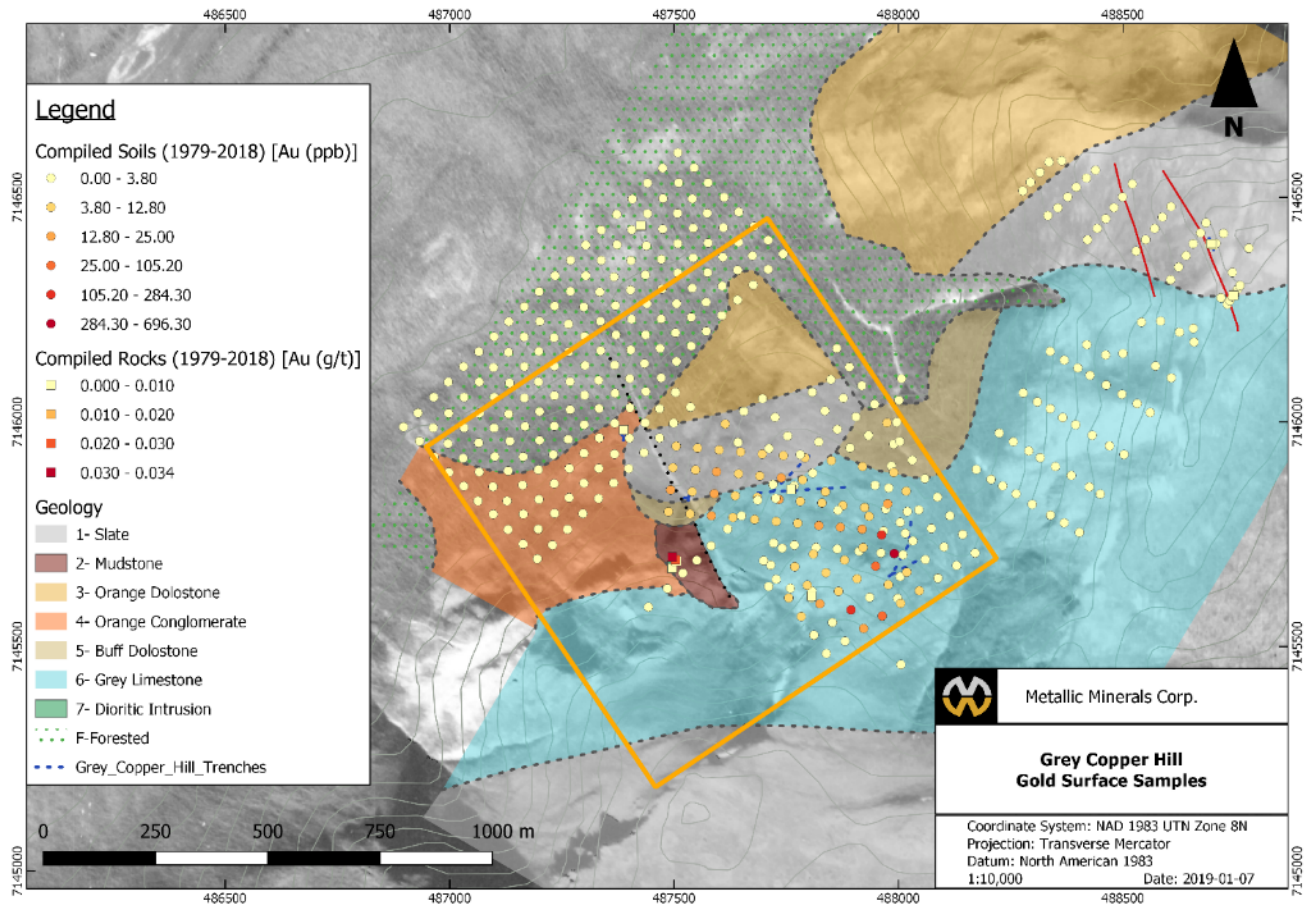
**Table 3. Summary of 2018 Rock Samples and Results**

Sample #	Easting	Northing	Ag g/t	Au g/t	Pb %	Zn %	Cu %
<b>1480010</b>	487495	7145674	1.8	0.000	0.08	0.06	0.03
<b>1480011</b>	487496	7145674	0.9	0.000	0.06	0.06	0.05
<b>1480012</b>	487503	7145693	<b>98.0</b>	0.023	0.03	0.07	<b>6.83</b>
<b>1480013</b>	487505	7145690	1.9	0.000	0.01	0.06	0.46
<b>1480252</b>	487496	7145699	<b>101.0</b>	0.034	0.30	0.06	<b>2.16</b>
<b>1480253</b>	487496	7145700	15.4	0.005	0.02	0.02	0.76

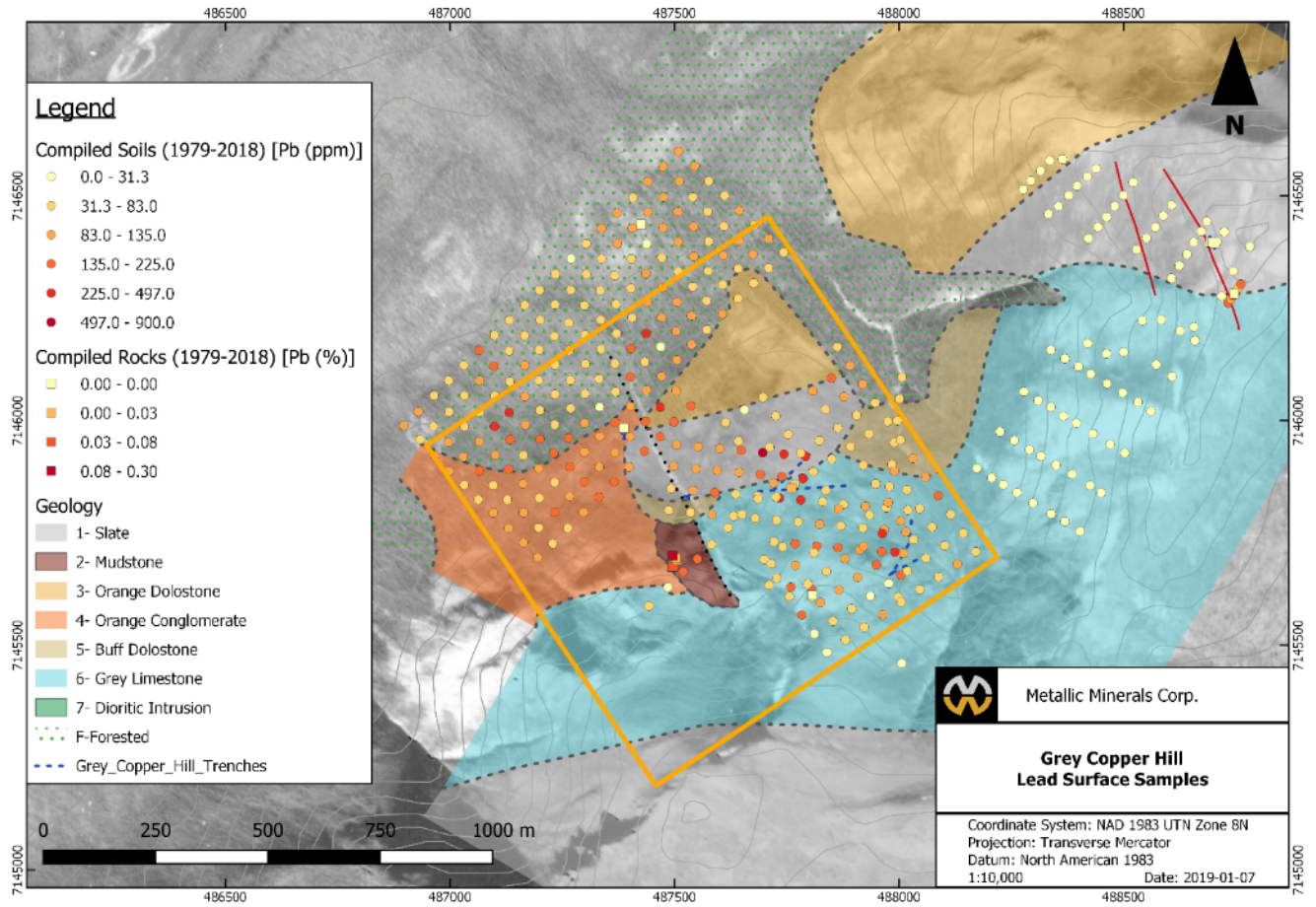
**Figure 7. Rock and Soil Chemistry - Ag**



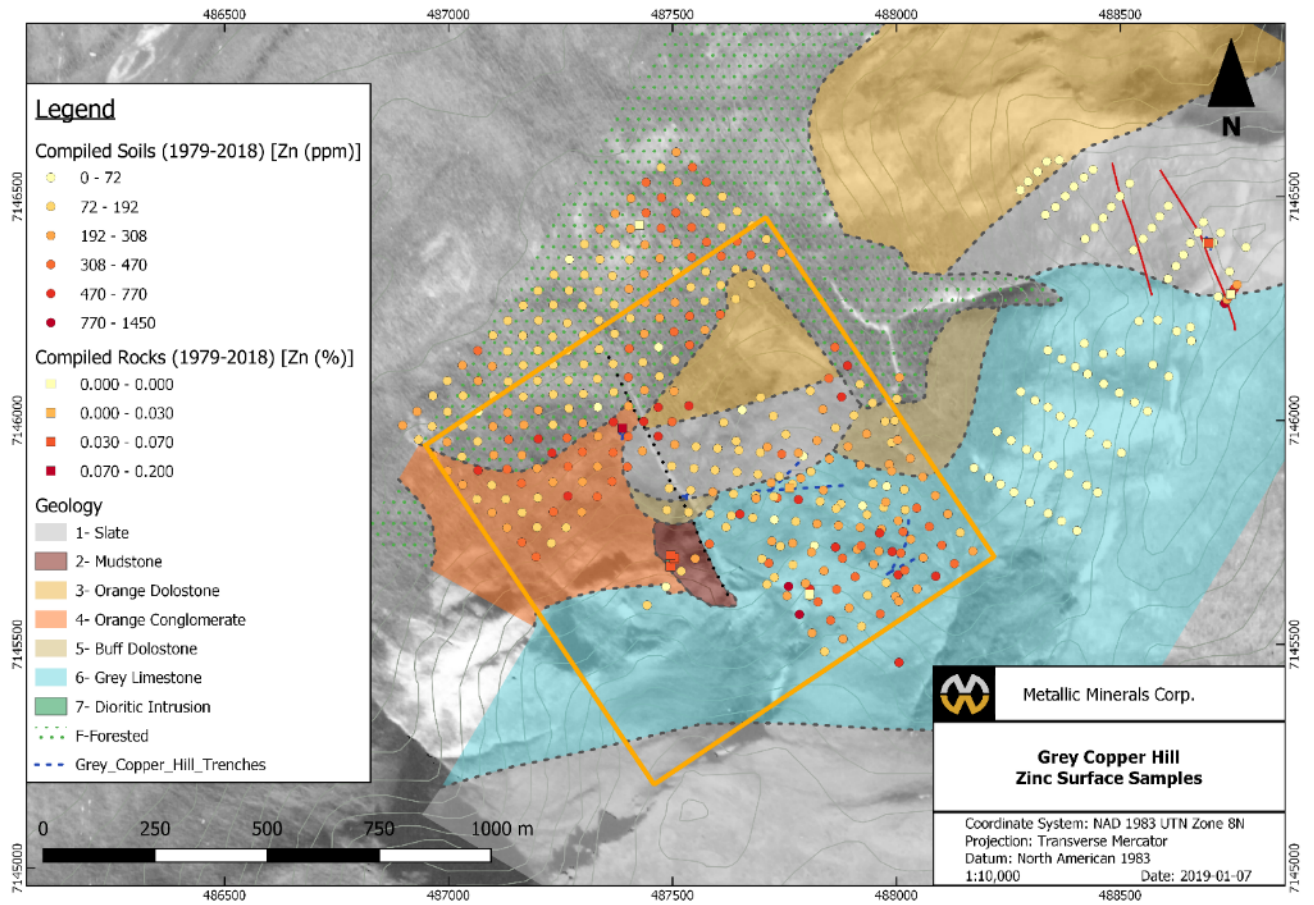
**Figure 8. Rock and Soil Chemistry – Au**



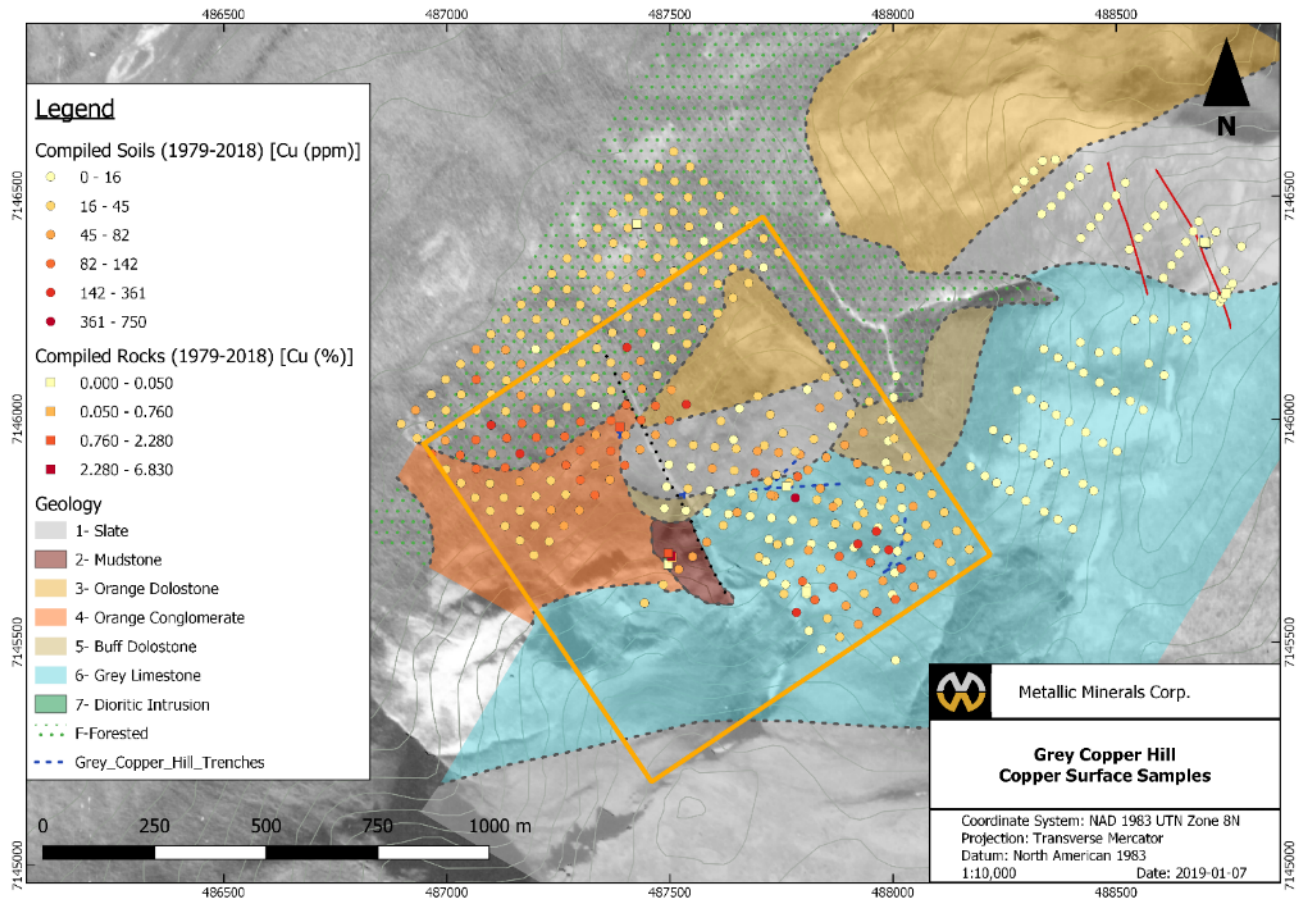
**Figure 9. Rock and Soil Chemistry – Pb**



**Figure 10. Rock and Soil Chemistry – Zn**



**Figure 11. Rock and Soil Chemistry – Cu**



## 5.2 Mapping (1:5,000-scale)

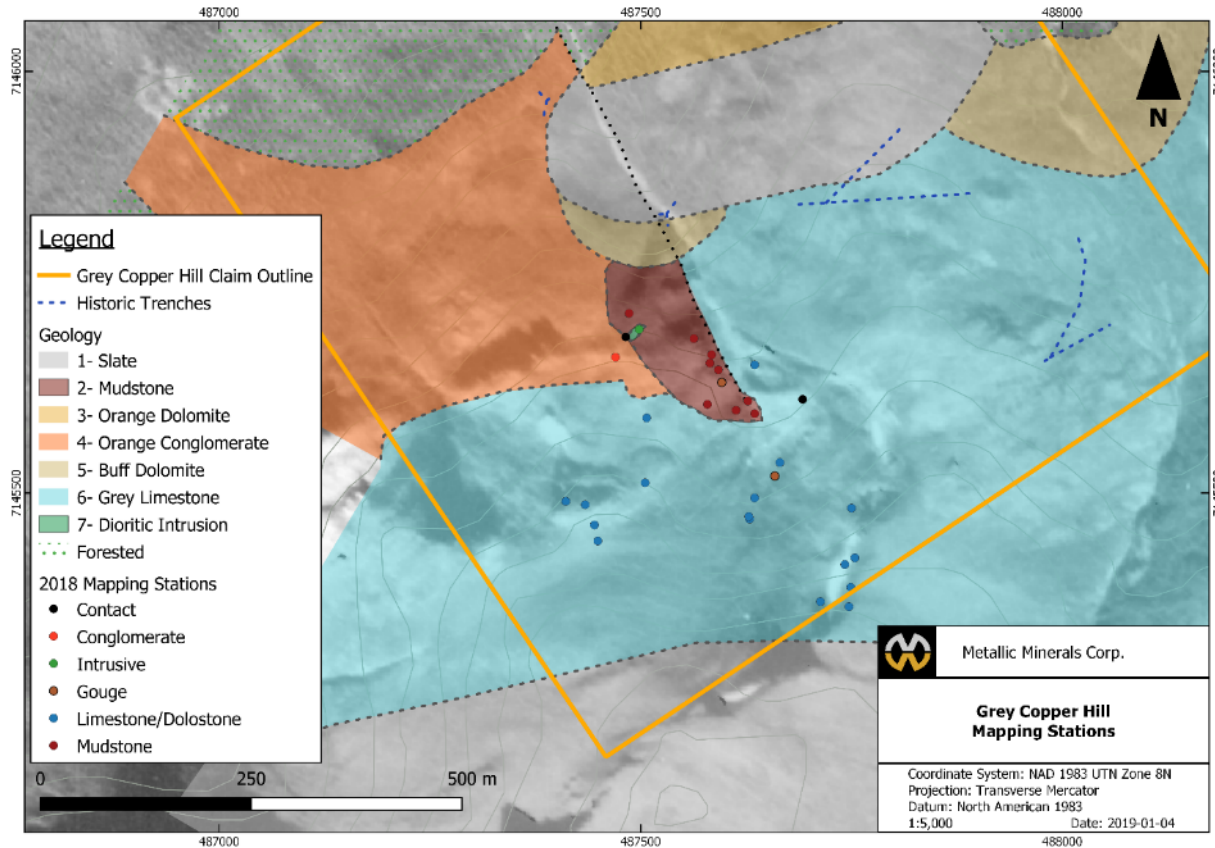
MMG staff spent one day (in combination with prospecting) performing reconnaissance mapping during a traverse from the ridge at the southeast edge of the claim block downslope into the prominent central gully. This traverse was planned in order to test and corroborate the previous mapping of this property, performed by Carlyle in 1989. **Figure 12** illustrates the mapping stations documented during this traverse.

### 5.2.1 Mapping Results and Interpretation

The single day of mapping performed during the 2018 work program led to a deeper understanding of the lithologies present and the association with mineralization on the property. As seen in **Figure 12**, the majority of lithologies mapped by Carlyle in 1989 were corroborated and refined. The traverse into the gulch along the west side of the fault led to the identification of a mudstone (grading to siltstone) unit that is discontinuous and appears to be cut by the fault to the east and a conglomerate unit to the west. *In situ* contacts are difficult to identify in this area, as scree dominates, especially in the precipitous-sloped gulch. A small intrusive (dioritic) body with a large alteration halo altering the host mudstone was also identified on the west side of the gulch slope. This dioritic intrusion appears to be associated with silver and copper skarn-type mineralization.

Carlyle (1989) notes that the mineralization appears to be present at the contact with the slate unit, which was not reached during the one-day mapping program in 2018. It is recommended in 2019 that multiple traverse continue down the gulch on either side of the fault to ascertain where the contact with the slates occur, and if there is mineralization present at the contact, as well as at the intersection of the fault and the slate.

**Figure 12. Mapping Stations and Lithology**



### 5.3 Soil Sampling

One soil sampling grid was conducted at Grey Copper Hill during 2018. This sampling program occurred over 2.5 days with two soil samplers on July 3-5<sup>th</sup>. The proposed grid can be seen in **Figure 13** (following page); most of these proposed samples were collected however terrain and poor soil limited collection of a few on the western margin of the proposed grid. Results of the soils can be seen in **Figures 7-11**, which have been compiled with historical rock and soil data. This grid was planned to perform infilling around historic soil samples on the east half of the property. A second grid was prepared for the west half of the property, but was not completed in 2018. As a result of the 2018 program and the historic work highlighting elevated soils that may be greenfield future areas of interest, it is recommended the remainder of the property be soil sampled in 2019 to capture a complete geochemical dataset over the claims.

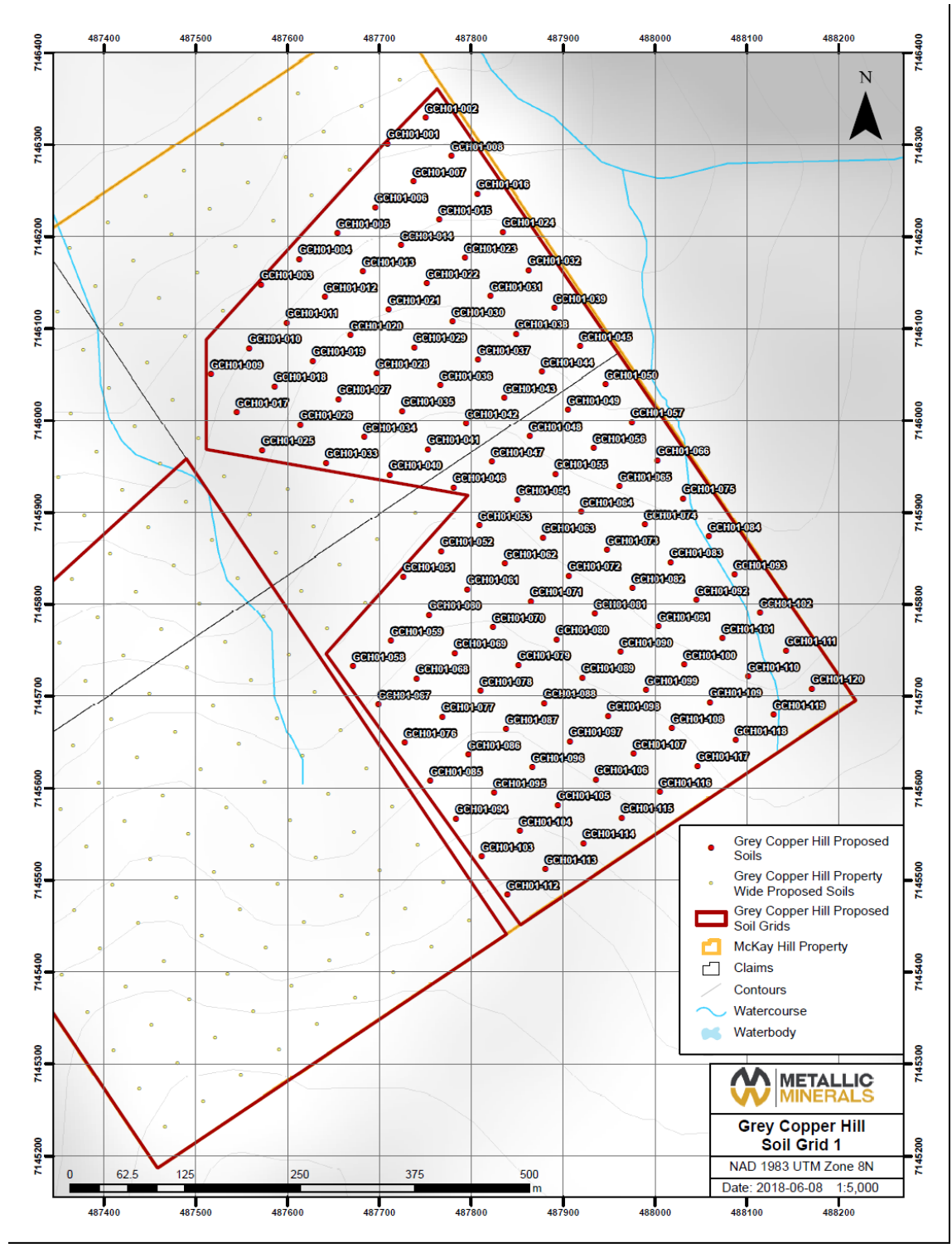
### **5.3.1 Soil Sampling Results and Interpretation**

Two primary zones of interest arose from the 2018 soil sampling program. The first is in the eastern quadrant of the property, near one of the v-shaped historic trenches. A northwest trend of multiple elevated soils for the elements of Ag, Au, Cu, and Zn is apparent. These anomalous values include 39 ppm Ag, 700 ppb Au, 400 ppm Cu, and between 500-1000 ppm Zn. Interestingly, this trend (~330°) is coincident with the trend of a known fault in the centre of the gulch. The southeast quadrant of the property has relatively high values throughout for silver, lead, and zinc. Ground truthing and perhaps reopening pre-existing trenches and sampling should occur at this location in future programs in order to validate these elevated soils.

A second area of interest arose due to an elevated copper value near the contact between limestone and slate. As noted above, these contacts, especially the footwall of the slate, were noted by Carlyle (1989) to have a potential association to mineralization. This area should also be ground truthed in 2019 to validate these soil samples.



Figure 13. 2018 Soil Sampling Grid



## 6 Conclusions and Recommendations for Future Work

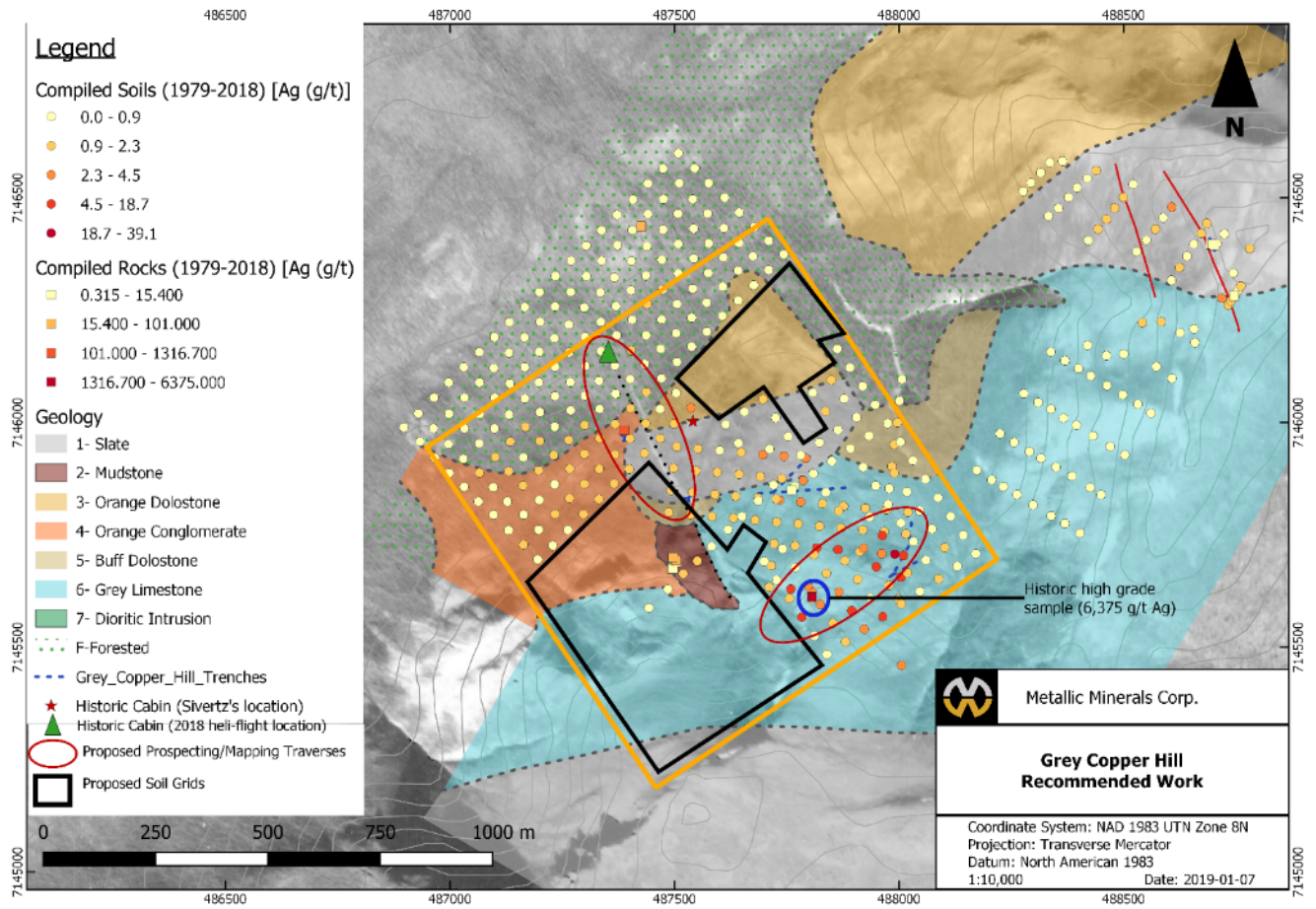
Overall, the 2018 exploration program at Grey Copper Hill was successful. This was the first-year work has been completed on this property in several decades, and the potential for this property is promising. Prospecting led to the discovery of a dyke on the western flank of a gulch which hosts skarn-type mineralization. Six samples were collected from the area, with several samples returning elevated silver and copper assay values. Reconnaissance mapping led to an increased understanding of the lithologies present on the property, and their associated mineralization-control. Finally, soil sampling was completed on the eastern half of the property, which revealed two anomalies that should be followed up on in the coming seasons.

### 6.1 Recommendations for Future Work

While skarn-type mineralization was discovered during the 2018 exploration program, MMG was unable to identify or duplicate the high-grade silver assays that historical records note. Further research was performed after the field season, and it is hoped that traverses in 2019 will lead to the rediscovery and collection of the high-grade quartz-hosted silver samples that were documented historically. Doubling the days on the property in the coming seasons would also allow for a much deeper understanding of the association between the lithologies present and mineralization. Ground truthing also needs to be performed to establish whether the cabin location noted by Sivertz and the cabin located observed from the air during the 2018 season are one and the same, or if there are two separate cabins on the property. **Figure 14** (following page) provides a visual aid to supplement these recommendations. In order to properly test the mineralization observed on the Grey Copper Hill property, the following recommendations are made:

- Chainsaw and slash out a pad near historic cabin (located at the base of the hill where it meets the valley at the base of the central gulch) in order to safely land and ground truth the historically high soil samples in the area.
- Perform detailed traverses from the cabin up into the gulch, especially focusing on the north side of the gulch, as historical records seem to point to that being the location of the original tetrahedrite-rich samples.
- Prospecting at the top of the gulch and to the east where the historically high-grade rock samples appear to be located.
- Orthophotography or aerial LiDAR scanning over the property in order to perform a lineation analysis, as it has been noted that lineations appear to correspond with elevated historical Ag soil values.
- Utilizing a heli-portable excavator in order to reach in situ bedrock in historic trenches.
- VLF ( $\pm$  IP): combined VLF-IP ground surveys have proved effective in recognizing structures in the region; potential areas to survey include the slate-limestone contact.

**Figure 14. Recommended Work**



## 7 Bibliography

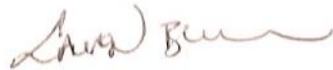
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## 8 Statement of Qualifications

I, Lauren Blackburn, of the City of Keno, in the Territory of Yukon, HEREBY CERTIFY:

1. That I am a geologist and that has worked based primarily in the Yukon Territory since 2006.
2. That I am a graduate of the University of Alberta (B.Sc. Geology, 2007).
3. That I have been engaged in mineral exploration and development and have worked on a full-time basis in Yukon Territory and Mexico since 2006 and in northern Canada (NU, NWT, YT, northern BC) since 2005.
4. That I am an employee of Metallic Minerals Corp. (2017 – present).
5. I consent to the use of this report by Metallic Minerals Corp. for such assessment and/or regulatory and financing purposes deemed necessary.

Dated at Whitehorse, Yukon Territory this 7<sup>th</sup> day of February 2019.



Lauren Blackburn B.Sc.  
*Metallic Minerals Corp.*  
PO Box 28,  
Keno City, Yukon Y0B 1M1

I, Taylor Haid, of the City of Vancouver, in the Province of British Columbia, HEREBY CERTIFY:

1. That I am a geologist, and that I worked on the property during the summer of 2018.
2. I am a graduate of the University of Regina (B.Sc. Hons Geology, 2014), and of Western University (M.Sc. Geology & Planetary Science, 2016).
3. I have worked in the field of geology and mineral exploration in Canada (SK, NU, ON) part-time since 2011 (including roles as a geology summer student), and full-time in Yukon Territory and British Columbia since 2016.
4. That I am an employee of Metallic Minerals Corp. (2018 - present).
5. I consent to the use of this report by Metallic Minerals Corp. for such assessment and/or regulatory and financing purposes deemed necessary.

Dated at Vancouver, British Columbia this 7<sup>th</sup> day of February 2019.

A handwritten signature in black ink, appearing to read 'Taylor Haid', written in a cursive style.

Taylor Haid M.Sc.  
*Metallic Minerals Corp.*  
2603-1011 Beach Avenue,  
Vancouver, BC, V6E 1T8

**Appendix I. Statement of Expenditures**



**Grey Copper Hill - 2018 Work Assessment Summary**

<b>Staffing - MMG &amp; Contractors</b>	<b>No. of Days</b>	<b>Rate</b>	<b>Subtotal</b>
Lauren Blackburn (Jun/23 & Jul/3)	2	\$450.00	\$900.00
Matthias Bindig (Jun/23)	1	\$400.00	\$400.00
Graham Leroux (Jul/3)	1	\$500.00	\$500.00
Taylor Haid (Jul/3)	1	\$400.00	\$400.00
<b>Soil Sampling - Mammoth Exploration Services</b>	<b>No. of Days</b>	<b>Rate</b>	<b>Subtotal</b>
Gabe Rondeau	2.5	\$607.50	\$1,518.75
Tyler Quock	2.5	\$607.50	\$1,518.75
<b>Assay Costs</b>	<b>No. of Samples</b>	<b>Cost/Each</b>	<b>Subtotal</b>
Soil Samples (Grid No. 1)	78	\$22.00	\$1,716
Rock Samples	6	\$24.00	\$144.00
<b>Transport - Helicopter</b>	<b>No. of Hours</b>	<b>Rate/hr</b>	<b>Subtotal</b>
Bell 407 - Jun/23 (LRB, MB)	0.6	\$1,650	\$990
Bell 407 - Jul/3 (LRB, GL, TH)	0.6	\$1,650	\$990
Bell 407 - Jul/4 (Mammoth - Soils)	0.6	\$1,650	\$990
Bell 407 - Jul/5 (Mammoth - Soils)	0.6	\$1,650	\$990
<b>Transportation - Fuel</b>	<b>Fuel Use</b>	<b>Cost/L</b>	<b>Subtotal</b>
Fuel - Jet A (Jun/23) - \$ 387.91/Drum	114 L	\$1.89/L	\$209.47
Fuel - Jet A (Jul/3) - \$ 387.91/Drum	114 L	\$1.89/L	\$209.47
Fuel - Jet A (Jul/4) - \$ 387.91/Drum	114 L	\$1.89/L	\$209.47
Fuel - Jet A (Jul/5) - \$ 387.91/Drum	114 L	\$1.89/L	\$209.47
<b>TOTAL =</b>			<b>\$11,895.38</b>

<b>Filing of Work / claim</b>	<b>Assessment - 2018 Yrs Applied</b>	<b>NEW date</b>
Pickney 1 claim (YC39575)	\$ 2,973.75 5 years (max)	Aug/3/2023
Pickney 2 claim (YC39576)	\$ 2,973.75 5 years (max)	Aug/3/2023
Pickney 3 claim (YC39577)	\$ 2,973.75 5 years (max)	Aug/3/2023
Pickney 4 claim (YC39578)	\$ 2,973.75 5 years (max)	Aug/3/2023



**Appendix II.      Batch Sheets and Assay Certificates**



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel  
Receiving Lab: Canada-Whitehorse  
Received: July 13, 2018  
Report Date: August 09, 2018  
Page: 1 of 4

# CERTIFICATE OF ANALYSIS

WHI18000334.1

## CLIENT JOB INFORMATION

Project: McKay Hill  
Shipment ID: MH  
P.O. Number: McKay Hill  
Number of Samples: 62

## SAMPLE DISPOSAL

RTRN-PLP Return 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.

Invoice To: Metallic Minerals Corp.  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2  
Canada

CC: Lauren Blackburn  
Samantha Dyck

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	61	Dry at 60C			WHI
SS80	61	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	61	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	61	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS

  
GEORGE ARCALA  
Instrumentation Shift Supervisor

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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

**Project:** McKay Hill  
**Report Date:** August 09, 2018

**Page:** 2 of 4

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# WHI18000334.1

Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
1480501	Soil		1.4	41.0	35.4	84	<0.1	61.5	25.1	1335	4.58	16.7	7.3	1.7	38	0.2	2.2	0.3	74	0.31	0.108	35
1480502	Soil		2.1	139.0	1196.9	2922	1.0	60.7	33.6	1655	5.78	95.6	8.0	4.9	54	23.9	121.4	0.5	52	0.47	0.149	32
1480503	Soil		2.0	79.1	248.7	807	0.4	33.9	24.2	1120	6.45	182.6	5.3	4.0	92	3.3	26.0	0.4	53	0.81	0.200	50
1480504	Soil		1.5	76.2	48.1	205	0.1	158.3	54.1	1688	9.16	63.2	13.4	4.9	128	0.7	8.1	0.1	221	1.01	0.353	61
1480505	Soil		1.4	20.3	32.3	73	<0.1	20.2	13.0	719	3.32	13.9	3.8	2.0	9	0.1	1.3	0.3	44	0.09	0.055	17
1480506	Soil		1.4	77.3	40.2	98	<0.1	136.4	46.8	2161	5.08	56.9	9.0	2.2	26	0.3	39.7	0.4	49	0.36	0.086	17
1480507	Soil		0.8	46.1	18.1	77	<0.1	151.8	29.2	1004	4.16	30.0	1.4	0.9	113	0.2	6.6	0.2	60	0.86	0.127	10
1480508	Soil		0.9	43.4	33.0	85	<0.1	112.0	27.5	1275	4.18	31.9	4.3	2.9	30	0.2	5.5	0.3	50	0.27	0.063	17
1480509	Soil		1.1	42.8	42.4	81	<0.1	86.1	26.3	1279	4.00	20.1	2.3	2.4	19	0.1	2.8	0.3	48	0.19	0.076	17
1480510	Soil		0.9	56.4	15.8	77	<0.1	51.0	16.4	643	3.37	17.9	4.6	2.1	24	0.2	1.4	0.2	58	0.30	0.058	20
1480511	Soil		1.5	58.3	45.2	94	<0.1	44.2	24.0	1690	4.59	61.8	2.2	5.9	19	<0.1	1.0	0.4	36	0.22	0.066	46
1480512	Soil		1.3	55.3	36.7	96	<0.1	48.1	22.3	1227	4.55	21.0	8.3	3.2	24	0.2	1.2	0.4	52	0.32	0.091	37
1480513	Soil		0.9	47.6	182.3	237	0.3	72.3	34.1	2501	10.27	38.7	3.5	1.5	112	1.1	14.0	<0.1	212	1.29	0.248	61
1480514	Soil		2.1	75.7	292.9	587	0.4	107.9	43.1	1637	8.34	289.4	55.8	3.7	88	2.3	30.0	0.2	71	0.87	0.162	26
1480515	Soil		2.1	69.4	22.8	139	0.1	144.6	51.1	1650	8.23	48.7	7.6	4.4	150	0.2	3.8	0.1	208	1.33	0.326	65
1480516	Soil		1.5	35.8	47.9	72	<0.1	27.6	22.7	1211	2.95	16.8	3.4	1.6	14	<0.1	2.0	0.3	45	0.15	0.064	22
1480517	Soil		1.6	37.8	48.8	66	0.1	20.9	13.2	895	3.95	21.4	3.2	2.1	8	0.1	1.4	0.5	51	0.08	0.061	17
1480518	Soil		1.8	39.3	47.3	86	<0.1	28.6	24.8	1940	4.24	22.6	9.2	1.5	11	0.1	1.9	0.5	44	0.08	0.097	20
1480519	Soil		1.2	29.5	37.0	72	<0.1	24.0	17.3	1606	3.64	14.6	1.8	0.4	15	0.2	1.6	0.4	41	0.23	0.065	18
1480520	Soil		1.2	73.1	45.8	133	<0.1	41.2	27.2	1633	5.60	9.7	1.3	10.8	14	0.1	1.2	0.5	16	0.13	0.040	57
1480521	Soil		1.3	42.1	40.0	76	<0.1	32.1	18.4	1092	4.10	27.6	2.4	1.9	14	0.1	0.9	0.4	39	0.16	0.059	27
1480522	Soil		1.0	49.3	31.7	78	<0.1	32.3	18.6	1249	3.94	10.3	1.7	0.9	14	0.1	1.1	0.5	29	0.09	0.065	28
1480523	Soil		1.4	90.3	498.3	766	0.4	85.4	36.0	1527	6.17	61.3	4.5	7.6	55	6.3	37.2	0.4	55	0.40	0.133	37
1480524	Soil		2.3	68.8	167.5	363	0.3	103.5	41.1	1675	8.12	101.0	11.6	3.3	85	2.5	16.6	0.2	118	0.92	0.180	36
1480525	Soil		1.2	56.9	80.7	226	0.1	104.8	40.2	1760	7.34	137.5	12.2	3.3	103	0.7	11.9	0.2	104	1.17	0.236	39
1480526	Soil		1.4	73.7	51.5	179	0.2	152.3	54.7	2170	8.78	146.2	18.1	3.6	107	0.6	12.6	0.1	154	1.06	0.273	46
1480527	Soil		1.4	35.4	36.7	72	<0.1	23.5	19.6	1519	3.53	18.8	23.0	0.6	9	0.1	1.3	0.4	48	0.10	0.092	17
1480528	Soil		1.0	23.3	22.3	56	<0.1	21.6	12.9	470	3.09	17.4	2.4	3.1	9	<0.1	1.1	0.3	41	0.09	0.049	17
1480529	Soil		1.2	42.4	39.3	97	<0.1	37.6	22.8	1035	4.86	12.0	<0.5	5.4	7	0.1	0.6	0.4	22	0.07	0.071	35
1480530	Soil		3.0	86.4	111.2	101	<0.1	33.7	29.2	1912	4.13	18.6	3.0	5.1	19	<0.1	0.9	0.6	34	0.16	0.074	59



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**Project:** McKay Hill  
**Report Date:** August 09, 2018

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1480501	Soil	78	0.78	133	0.021	2	1.59	0.005	0.04	<0.1	0.17	4.2	0.1	<0.05	5	<0.5	<0.2	
1480502	Soil	41	0.46	119	0.012	2	1.08	0.006	0.07	0.1	6.21	9.1	0.1	<0.05	3	<0.5	<0.2	
1480503	Soil	24	0.37	129	0.006	3	1.15	0.006	0.07	0.1	0.72	5.5	0.1	<0.05	2	<0.5	<0.2	
1480504	Soil	260	1.16	136	0.026	2	1.30	0.004	0.03	<0.1	0.92	20.3	0.1	<0.05	5	<0.5	<0.2	
1480505	Soil	27	0.39	65	0.030	2	1.56	0.004	0.05	0.2	0.06	1.8	0.1	<0.05	5	<0.5	<0.2	
1480506	Soil	102	0.83	99	0.015	2	1.59	0.006	0.04	0.1	0.10	9.4	0.2	<0.05	4	<0.5	<0.2	
1480507	Soil	218	1.87	105	0.017	2	2.09	0.008	0.04	<0.1	0.06	8.8	0.1	0.06	5	<0.5	<0.2	
1480508	Soil	136	1.23	140	0.025	1	1.61	0.006	0.05	<0.1	0.05	7.7	0.1	<0.05	4	<0.5	<0.2	
1480509	Soil	120	1.12	101	0.020	2	1.71	0.004	0.05	<0.1	0.04	4.3	<0.1	<0.05	5	<0.5	<0.2	
1480510	Soil	57	0.84	133	0.034	2	1.83	0.007	0.05	0.2	0.03	5.0	0.1	<0.05	5	<0.5	<0.2	
1480511	Soil	34	0.51	76	0.004	1	1.46	0.004	0.07	<0.1	0.11	5.1	<0.1	<0.05	4	<0.5	<0.2	
1480512	Soil	51	0.60	110	0.007	1	1.61	0.005	0.08	<0.1	0.08	4.8	<0.1	<0.05	5	<0.5	<0.2	
1480513	Soil	141	0.57	152	0.013	3	1.01	0.005	0.04	<0.1	0.48	13.0	0.1	0.07	3	<0.5	<0.2	
1480514	Soil	75	0.70	145	0.009	2	1.00	0.008	0.09	<0.1	0.73	15.6	0.2	<0.05	3	<0.5	<0.2	
1480515	Soil	230	2.19	145	0.063	2	2.32	0.007	0.05	<0.1	0.30	16.4	0.1	<0.05	10	0.7	<0.2	
1480516	Soil	31	0.50	90	0.031	<1	1.47	0.005	0.05	0.1	0.06	2.1	0.1	<0.05	5	<0.5	<0.2	
1480517	Soil	30	0.38	64	0.034	<1	1.66	0.005	0.05	0.2	0.07	2.0	0.1	<0.05	6	<0.5	<0.2	
1480518	Soil	32	0.49	93	0.021	<1	1.94	0.007	0.06	0.1	0.03	2.0	0.1	<0.05	6	<0.5	<0.2	
1480519	Soil	32	0.42	77	0.012	<1	1.48	0.006	0.06	<0.1	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2	
1480520	Soil	23	0.47	48	0.001	<1	1.33	0.004	0.06	<0.1	0.06	3.8	<0.1	<0.05	3	<0.5	<0.2	
1480521	Soil	34	0.45	63	0.012	1	1.54	0.004	0.05	<0.1	0.06	2.4	<0.1	<0.05	4	<0.5	<0.2	
1480522	Soil	26	0.31	90	0.007	<1	1.09	0.003	0.07	<0.1	0.08	1.5	<0.1	<0.05	3	<0.5	<0.2	
1480523	Soil	58	0.41	107	0.005	1	0.91	0.004	0.05	<0.1	0.70	8.4	<0.1	<0.05	3	<0.5	<0.2	
1480524	Soil	85	1.03	142	0.011	1	1.70	0.008	0.07	<0.1	0.37	17.7	<0.1	<0.05	5	<0.5	<0.2	
1480525	Soil	111	0.88	136	0.016	2	1.16	0.008	0.08	<0.1	0.44	12.1	0.2	<0.05	4	<0.5	<0.2	
1480526	Soil	135	0.67	128	0.008	<1	1.07	0.006	0.06	<0.1	0.51	17.7	0.2	<0.05	4	<0.5	<0.2	
1480527	Soil	33	0.46	73	0.020	<1	1.62	0.005	0.06	0.1	0.05	1.5	0.1	<0.05	6	<0.5	<0.2	
1480528	Soil	26	0.41	46	0.032	<1	1.27	0.005	0.05	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2	
1480529	Soil	27	0.65	35	0.004	<1	1.99	0.004	0.06	<0.1	0.04	2.2	<0.1	<0.05	5	<0.5	<0.2	
1480530	Soil	29	0.44	116	0.018	<1	1.47	0.006	0.06	<0.1	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2	

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



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**Project:** McKay Hill  
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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1480531	Soil	2.1	39.5	42.7	86	<0.1	29.7	20.4	1743	3.51	16.4	9.2	3.1	11	<0.1	0.7	0.3	42	0.11	0.066	28
1481776	Soil	1.9	35.2	46.6	122	0.5	14.9	8.1	329	3.08	25.4	4.0	2.7	12	0.2	5.0	0.7	48	0.06	0.031	14
1481777	Soil	1.2	8.8	31.3	28	0.2	5.0	2.1	90	1.31	21.1	<0.5	1.4	17	<0.1	1.1	0.9	38	0.03	0.038	19
1481778	Soil	1.1	44.6	34.4	137	2.0	27.0	13.6	842	2.97	17.1	2.4	2.1	14	0.3	1.6	0.5	40	0.15	0.076	15
1481781	Soil	1.8	30.0	166.4	573	0.9	24.3	14.5	2171	3.63	14.2	1.6	2.3	37	1.2	2.5	0.5	24	0.98	0.066	14
1481782	Soil	1.9	22.7	73.4	398	0.4	18.8	10.9	854	2.99	15.2	2.9	2.3	17	0.5	1.8	0.6	31	0.35	0.054	15
1481783	Soil	1.9	15.8	50.7	175	0.2	15.6	9.4	815	2.84	17.9	2.0	2.9	17	0.3	1.7	0.5	37	0.09	0.054	14
1481784	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1481785	Soil	1.7	19.1	39.4	174	0.4	14.0	7.9	1479	2.47	11.6	<0.5	0.6	16	0.5	1.5	0.4	25	0.46	0.074	12
1481787	Soil	1.4	14.0	100.6	154	0.3	11.7	7.9	1293	2.10	8.0	1.1	0.5	39	0.6	1.4	0.4	22	0.83	0.094	7
1481788	Soil	2.0	43.8	183.6	458	1.1	26.7	15.9	1353	3.25	19.3	3.4	3.1	35	0.8	3.4	0.7	25	0.97	0.085	14
1481789	Soil	1.7	32.3	100.6	586	0.7	19.4	11.7	997	2.70	12.7	2.8	1.5	37	1.1	1.9	0.6	24	0.97	0.086	10
1481790	Soil	3.0	36.9	66.0	274	0.7	30.5	14.9	1566	3.20	23.7	2.4	3.3	26	0.8	3.0	0.8	32	0.23	0.076	19
1481791	Soil	2.6	36.0	70.0	188	0.6	19.0	11.8	1011	2.61	20.2	1.9	1.9	22	0.4	2.8	0.9	24	0.10	0.081	16
1481793	Soil	2.1	53.5	79.5	246	1.2	26.4	14.6	1771	3.15	16.9	1.8	2.2	37	0.5	2.4	0.7	24	0.72	0.104	14
1481794	Soil	2.1	30.5	110.4	561	0.6	24.3	12.3	1449	3.39	16.2	3.8	2.2	28	1.4	1.9	0.7	30	0.44	0.066	16
1481795	Soil	4.0	35.0	99.8	151	0.6	27.4	13.6	888	2.83	23.5	3.6	3.6	43	0.6	3.2	0.6	33	3.18	0.074	11
1481796	Soil	2.3	32.9	65.0	210	0.7	28.3	13.6	1867	3.90	19.7	2.9	2.3	26	0.4	1.9	0.8	37	0.30	0.086	18
1481797	Soil	2.4	36.8	68.7	240	0.7	25.8	14.1	2022	3.67	17.4	1.7	2.0	26	0.4	2.3	0.6	30	0.78	0.083	15
1481798	Soil	2.8	10.8	36.0	113	0.1	9.3	6.6	905	1.93	11.6	2.5	0.9	9	0.2	0.9	0.6	34	0.14	0.050	14
1481799	Soil	1.7	44.6	42.6	140	0.7	19.2	10.1	949	2.13	10.4	3.0	0.7	33	0.1	1.9	0.5	24	1.43	0.119	9
1481800	Soil	1.7	38.5	59.6	164	0.3	36.2	15.6	839	3.01	9.1	1.8	4.9	46	0.4	1.1	0.4	40	3.76	0.103	17
1481801	Soil	14.0	82.4	77.8	114	1.3	18.6	8.3	462	2.76	52.2	1.4	1.3	48	<0.1	5.4	1.1	64	0.52	0.129	16
1481802	Soil	2.9	45.3	73.7	188	0.9	32.6	15.3	1715	3.39	23.8	2.9	3.4	40	0.4	3.2	0.7	33	0.76	0.094	17
1481803	Soil	2.9	80.2	60.4	180	0.9	29.0	13.4	1083	3.18	48.9	2.3	5.0	67	0.4	3.4	0.8	45	0.36	0.159	18
1481804	Soil	2.5	52.8	63.1	238	0.7	29.8	14.8	1128	3.50	22.4	4.4	4.4	27	0.4	2.7	0.7	33	0.61	0.080	18
1481805	Soil	2.0	49.4	56.1	222	0.8	26.1	13.0	1304	3.09	15.3	2.9	1.8	28	0.4	2.3	0.5	29	0.92	0.092	13
1481806	Soil	10.3	50.1	63.9	285	0.9	47.5	15.6	1074	3.86	43.1	3.0	2.6	37	1.1	4.3	0.9	95	2.37	0.116	16
1481807	Soil	1.8	23.1	41.9	135	0.4	27.7	11.8	1616	2.82	12.2	8.3	0.8	42	0.7	1.8	0.4	24	3.26	0.093	9
1481808	Soil	8.7	18.3	56.2	46	0.9	8.6	3.3	260	1.49	30.0	3.5	7.7	13	0.1	7.7	1.1	24	0.66	0.029	24



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1480531	Soil	37	0.44	83	0.024	<1	1.66	0.004	0.05	0.1	0.06	2.6	<0.1	<0.05	5	<0.5	<0.2
1481776	Soil	22	0.26	72	0.025	<1	1.25	0.004	0.05	0.1	0.10	2.1	0.3	<0.05	5	<0.5	<0.2
1481777	Soil	10	0.08	37	0.025	<1	0.55	0.003	0.04	0.1	0.03	0.8	0.1	<0.05	4	<0.5	<0.2
1481778	Soil	24	0.37	101	0.023	<1	1.44	0.007	0.06	0.1	0.17	2.3	0.1	<0.05	4	<0.5	<0.2
1481781	Soil	14	0.43	103	0.012	1	0.74	0.007	0.07	<0.1	0.25	4.2	0.2	<0.05	2	<0.5	<0.2
1481782	Soil	16	0.29	118	0.012	<1	0.82	0.005	0.07	<0.1	0.15	3.2	0.2	<0.05	3	<0.5	<0.2
1481783	Soil	18	0.21	126	0.015	1	1.13	0.005	0.06	0.1	0.06	2.2	0.3	<0.05	4	<0.5	<0.2
1481784	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1481785	Soil	10	0.22	110	0.012	2	0.58	0.008	0.05	0.1	0.13	1.8	0.1	0.06	2	<0.5	<0.2
1481787	Soil	9	0.18	81	0.011	2	0.52	0.008	0.05	<0.1	0.12	1.4	0.1	0.08	2	<0.5	<0.2
1481788	Soil	14	0.49	109	0.020	3	0.62	0.007	0.06	0.1	0.27	3.8	0.2	<0.05	2	0.5	<0.2
1481789	Soil	16	0.34	128	0.009	3	0.80	0.008	0.07	<0.1	0.29	3.1	0.2	0.06	2	<0.5	<0.2
1481790	Soil	18	0.28	200	0.018	2	1.05	0.006	0.08	0.2	0.18	3.6	0.2	<0.05	3	<0.5	<0.2
1481791	Soil	12	0.14	106	0.011	2	0.64	0.004	0.07	0.1	0.09	1.6	0.2	<0.05	2	<0.5	0.3
1481793	Soil	16	0.29	144	0.011	3	0.80	0.007	0.08	<0.1	0.27	3.9	0.2	0.07	2	0.9	<0.2
1481794	Soil	18	0.28	132	0.015	2	0.96	0.005	0.07	<0.1	0.27	3.5	0.2	<0.05	3	<0.5	<0.2
1481795	Soil	18	1.72	699	0.026	2	0.68	0.009	0.06	0.1	0.16	2.7	0.3	0.06	2	<0.5	<0.2
1481796	Soil	23	0.31	220	0.012	2	1.19	0.005	0.09	<0.1	0.13	4.3	0.2	<0.05	3	0.6	<0.2
1481797	Soil	18	0.37	163	0.014	2	0.89	0.006	0.08	0.1	0.17	4.1	0.2	0.06	2	<0.5	<0.2
1481798	Soil	13	0.12	106	0.015	1	0.70	0.005	0.06	0.1	0.04	1.3	0.2	<0.05	4	<0.5	<0.2
1481799	Soil	17	0.41	142	0.009	3	0.86	0.007	0.06	<0.1	0.20	1.8	0.2	0.14	2	0.8	<0.2
1481800	Soil	33	2.29	169	0.055	3	0.84	0.010	0.08	<0.1	0.08	3.6	0.1	<0.05	3	<0.5	<0.2
1481801	Soil	22	0.27	274	0.018	3	1.08	0.009	0.13	0.2	0.46	2.4	0.5	0.18	4	2.8	<0.2
1481802	Soil	20	0.53	231	0.018	2	1.00	0.009	0.12	0.1	0.24	4.8	0.3	0.06	2	<0.5	<0.2
1481803	Soil	22	0.32	203	0.024	3	0.98	0.009	0.08	0.2	0.21	4.0	0.3	<0.05	3	<0.5	<0.2
1481804	Soil	20	0.45	133	0.027	2	0.81	0.009	0.08	0.1	0.22	4.3	0.2	<0.05	2	<0.5	<0.2
1481805	Soil	21	0.39	145	0.015	3	0.86	0.007	0.08	<0.1	0.22	3.6	0.2	0.08	2	<0.5	<0.2
1481806	Soil	42	1.98	749	0.071	3	1.40	0.009	0.07	0.2	0.15	4.3	0.5	<0.05	5	0.6	<0.2
1481807	Soil	17	1.09	292	0.012	3	0.49	0.009	0.05	<0.1	0.08	2.5	0.2	0.09	1	0.6	<0.2
1481808	Soil	8	0.43	101	0.013	2	0.28	0.005	0.10	0.1	0.18	1.3	0.4	0.11	1	3.0	<0.2



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

Project: McKay Hill  
Report Date: August 09, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000334.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1481809	Soil	7.9	31.0	295.6	108	1.5	23.9	9.5	478	3.45	65.1	17.0	3.7	41	0.3	14.8	1.4	48	0.20	0.107	17
1481810	Soil	2.2	16.9	41.7	106	0.5	22.3	10.2	762	3.27	14.1	<0.5	2.5	20	0.1	1.3	0.5	51	0.27	0.043	16



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Project: McKay Hill  
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Part: 2 of 2

# CERTIFICATE OF ANALYSIS

WHI18000334.1

Method	AQ201																
	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1481809	Soil	24	0.36	273	0.042	2	1.16	0.006	0.09	0.3	0.41	2.4	0.7	0.08	4	0.7	<0.2
1481810	Soil	27	0.40	200	0.025	2	1.67	0.007	0.06	0.2	0.09	3.0	0.2	<0.05	5	<0.5	<0.2





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Vancouver British Columbia V6C 1T2 Canada

Project: McKay Hill  
Report Date: August 09, 2018

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Part: 1 of 2

# QUALITY CONTROL REPORT

WHI18000334.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1480522	Soil	1.0	49.3	31.7	78	<0.1	32.3	18.6	1249	3.94	10.3	1.7	0.9	14	0.1	1.1	0.5	29	0.09	0.065	28
REP 1480522	QC	1.2	47.6	31.9	79	<0.1	32.8	18.6	1211	3.77	10.3	2.3	0.9	15	<0.1	1.3	0.5	29	0.10	0.062	30
1481808	Soil	8.7	18.3	56.2	46	0.9	8.6	3.3	260	1.49	30.0	3.5	7.7	13	0.1	7.7	1.1	24	0.66	0.029	24
REP 1481808	QC	9.3	19.0	58.6	48	0.9	8.9	3.3	266	1.54	31.2	2.4	8.0	14	0.1	7.5	1.1	25	0.68	0.031	26
Reference Materials																					
STD DS11	Standard	14.9	159.9	138.5	349	1.8	82.0	14.6	1058	3.33	42.8	93.0	7.5	68	2.3	7.6	11.3	52	1.02	0.069	19
STD DS11	Standard	14.5	144.7	136.9	342	1.7	78.9	13.9	994	3.12	41.0	76.4	7.4	63	2.2	7.2	10.9	52	1.02	0.069	19
STD OXC129	Standard	1.4	30.2	6.7	44	<0.1	84.9	21.5	438	3.30	0.8	198.6	1.9	212	<0.1	<0.1	<0.1	57	0.72	0.103	13
STD OXC129	Standard	1.3	28.7	6.6	44	<0.1	81.8	21.2	438	3.19	0.6	201.5	2.0	207	<0.1	<0.1	<0.1	57	0.79	0.099	13
STD OXC129 Expected		1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	12.5
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



# QUALITY CONTROL REPORT

WHI18000334.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
1480522	Soil	26	0.31	90	0.007	<1	1.09	0.003	0.07	<0.1	0.08	1.5	<0.1	<0.05	3	<0.5	<0.2
REP 1480522	QC	26	0.32	92	0.007	<1	1.11	0.004	0.07	<0.1	0.10	1.5	<0.1	<0.05	3	<0.5	<0.2
1481808	Soil	8	0.43	101	0.013	2	0.28	0.005	0.10	0.1	0.18	1.3	0.4	0.11	1	3.0	<0.2
REP 1481808	QC	9	0.43	104	0.014	2	0.30	0.004	0.10	<0.1	0.19	1.3	0.4	0.12	1	2.9	<0.2
Reference Materials																	
STD DS11	Standard	62	0.83	372	0.091	8	1.11	0.072	0.40	3.0	0.25	3.3	5.0	0.29	5	1.9	4.7
STD DS11	Standard	60	0.82	349	0.091	8	1.11	0.082	0.39	3.0	0.26	3.2	5.0	0.28	5	1.9	4.6
STD OXC129	Standard	55	1.63	51	0.429	1	1.63	0.646	0.35	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	56	1.63	53	0.436	<1	1.69	0.615	0.37	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel  
Receiving Lab: Canada-Whitehorse  
Received: July 13, 2018  
Report Date: September 01, 2018  
Page: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI18000335.1

## CLIENT JOB INFORMATION

Project: McKay Hill  
Shipment ID: MH  
P.O. Number: McKay Hill  
Number of Samples: 40

## SAMPLE DISPOSAL

RTRN-PLP Return After 90 days  
DISP-RJT Dispose of Reject After 60 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	40	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	40	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	40	Per sample shipping charges for branch shipments			VAN
MA404	19	4 Acid Digest AAS Finish Vancouver	0.5	Completed	VAN
FA530-Ag	8	Lead collection fire assay fusion - Grav finish	30	Completed	VAN
EN002	8	Environmental disposal charge-Fire assay lead waste			VAN
CV402	1	Hg by 0.5g/10ml Aqua Regia, CVAA	0.5	Completed	VAN
GC817	1	Lead Assay by Classical Titration	0.5	Completed	VAN

## ADDITIONAL COMMENTS

Invoice To: **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2  
Canada

CC: Lauren Blackburn  
Samantha Dyck



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.



Bureau Veritas Commodities Canada Ltd.

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**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

**Project:** McKay Hill  
**Report Date:** September 01, 2018

**Page:** 2 of 3

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI18000335.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
1480010	Rock	2.00	4.3	330.2	812.2	573	1.8	91.9	50.6	8442	32.79	5.9	<0.5	40.9	251	1.2	2.2	3.7	247	1.46	0.027
1480011	Rock	1.43	9.7	520.9	584.4	568	0.9	69.4	45.5	4455	25.95	9.8	<0.5	70.9	66	1.2	2.5	1.9	409	0.60	0.048
1480012	Rock	2.22	0.4	>10000	212.5	691	>100	61.6	84.7	2138	14.37	51.5	23.3	57.0	55	2.4	2.1	2.4	37	0.26	0.141
1480013	Rock	1.31	0.8	4627.9	55.6	612	1.9	94.6	56.3	7714	6.57	13.6	<0.5	12.7	34	3.7	1.9	0.3	36	2.38	0.043
1480014	Rock	1.00	11.5	>10000	1351.5	689	>100	52.7	20.5	306	7.85	31.5	47.1	0.7	7	3.0	5.5	3.0	14	0.04	0.005
1480015	Rock	1.54	4.7	>10000	744.4	1180	>100	30.4	27.5	2100	4.95	70.0	36.3	0.4	19	3.7	7.3	0.6	7	1.57	0.004
1480016	Rock	1.21	1.0	>10000	148.7	68	9.9	59.4	28.7	993	3.16	35.3	11.1	0.3	56	0.5	4.1	0.3	11	4.58	0.006
1480017	Rock	1.05	104.8	157.4	1378.1	1768	2.5	77.5	5.0	761	>40	55.6	<0.5	0.4	2	10.7	17.9	27.1	71	0.14	0.051
1480018	Rock	0.77	2.8	262.3	>10000	3324	15.6	77.5	32.2	76	5.60	69.6	<0.5	0.1	6	22.2	22.4	0.3	>10000	0.13	0.001
1480019	Rock	0.93	2.4	75.6	>10000	191	13.5	2.5	0.7	38	1.72	40.1	<0.5	0.5	2	1.0	17.1	0.1	5587	<0.01	0.004
1480020	Rock	0.98	5.4	55.0	>10000	135	12.6	1.2	0.1	39	2.82	35.8	1.3	0.4	3	0.8	18.7	0.4	>10000	<0.01	0.003
1480021	Rock	0.91	0.3	14.4	>10000	73	17.8	1.0	0.3	35	0.31	1.1	<0.5	0.2	<1	0.5	2.7	<0.1	55	<0.01	0.001
1480022	Rock	0.93	3.0	32.8	753.4	6375	1.2	44.2	12.3	3487	4.29	2.2	<0.5	77.4	419	20.0	3.3	1.3	31	7.40	0.006
1480023	Rock	0.96	5.6	1836.4	>10000	1026	>100	11.8	4.3	3768	3.60	17.1	5.5	11.2	103	12.6	597.8	2.3	18	12.10	0.036
1480024	Rock	1.24	40.7	1579.3	>10000	>10000	>100	11.0	8.9	919	2.12	16.2	46.5	5.0	25	734.2	658.8	6.3	14	0.47	0.013
1480025	Rock	1.17	8.1	87.9	8805.1	9475	17.9	37.4	12.6	2234	3.42	0.8	<0.5	10.7	221	37.3	64.5	1.5	14	2.90	0.014
1480026	Rock	2.48	59.2	84.6	1586.2	>10000	9.0	22.9	13.5	1041	1.94	5.5	2.6	5.8	114	112.5	46.1	5.3	13	1.59	0.031
1480027	Rock	0.79	21.2	68.7	>10000	105	20.3	29.6	9.5	1463	1.73	10.7	<0.5	32.1	30	1.5	36.9	2.9	19	3.64	0.032
1480028	Rock	1.35	5.6	168.5	>10000	2284	>100	13.3	1.7	375	0.99	6.2	18.5	2.7	16	17.1	412.5	12.1	7	0.36	0.008
1480115	Rock	2.65	1.1	2384.8	>10000	>10000	42.7	139.0	36.1	1289	5.49	151.9	42.1	2.3	225	834.8	>2000	1.0	68	4.98	0.195
1480116	Rock	2.69	0.9	1324.4	7116.0	>10000	4.4	110.3	35.6	1357	6.48	98.8	2.7	4.7	137	495.8	148.9	0.3	60	5.62	0.220
1480117	Rock	2.22	1.4	121.2	2652.8	2096	2.4	65.3	27.1	1058	5.48	43.9	<0.5	10.1	52	18.0	35.1	0.4	24	1.21	0.106
1480118	Rock	2.00	0.9	194.8	>10000	>10000	8.9	12.8	10.4	493	1.69	38.8	18.0	1.2	9	173.6	141.5	0.2	6	0.12	0.010
1480119	Rock	2.48	0.9	>10000	>10000	>10000	>100	6.2	3.6	108	0.67	152.7	944.8	0.1	35	1663.0	>2000	7.9	4	0.05	0.007
1480251	Rock	2.48	0.3	50.8	535.1	195	0.8	8.0	2.6	173	0.67	2.0	2.5	0.1	38	4.6	48.8	<0.1	4	0.56	0.025
1480252	Rock	1.99	1.9	>10000	3108.8	582	>100	241.5	56.1	1301	16.81	269.9	34.3	11.1	63	3.1	156.1	6.3	36	1.40	0.022
1480253	Rock	1.58	0.6	7598.1	231.0	177	15.4	39.9	18.5	4404	6.89	9.2	5.4	11.3	126	1.1	108.4	0.4	40	3.83	0.008
1480254	Rock	2.17	0.9	154.3	158.6	79	0.4	72.8	27.7	167	2.99	2.1	<0.5	2.3	8	0.5	2.7	0.1	30	0.65	0.039
1480255	Rock	3.05	1.4	66.9	300.5	598	0.8	77.0	37.4	49	3.77	53.3	<0.5	3.4	5	5.2	11.7	0.1	17	0.12	0.059
1480256	Rock	2.87	18.0	68.5	245.8	357	0.5	42.1	5.6	828	3.86	23.8	0.8	5.6	4	1.2	1.7	0.1	40	0.10	0.052

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**Project:** McKay Hill  
**Report Date:** September 01, 2018

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# CERTIFICATE OF ANALYSIS

# WHI18000335.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404	MA404	MA404	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	0.01	0.01	0.01	
1480010	Rock	6	18	1.16	272	0.002	2	0.20	0.003	0.18	>100	<0.01	4.5	0.1	0.15	<1	<0.5	<0.2			
1480011	Rock	9	8	0.36	125	0.001	<1	0.29	0.003	0.24	30.0	0.03	5.3	0.1	<0.05	1	<0.5	<0.2			
1480012	Rock	24	11	0.35	58	0.002	<1	0.26	0.004	0.18	1.7	4.72	3.5	0.2	2.60	<1	1.6	<0.2	6.83	0.03	0.07
1480013	Rock	21	5	1.66	201	0.001	<1	0.60	0.006	0.39	2.6	0.13	7.3	0.2	0.12	1	<0.5	<0.2			
1480014	Rock	5	6	0.65	3	0.012	<1	0.46	0.005	0.03	0.2	1.06	6.0	0.2	0.09	2	35.8	1.1	1.24	0.14	0.07
1480015	Rock	3	4	0.56	13	0.005	1	0.39	0.004	0.02	0.1	0.53	5.7	0.3	1.48	1	49.5	<0.2	3.99	0.08	0.12
1480016	Rock	4	7	0.83	7	0.012	2	0.54	0.006	0.02	0.1	0.11	6.1	<0.1	0.12	1	14.5	<0.2	3.89	0.02	0.01
1480017	Rock	2	10	0.24	72	<0.001	<1	0.16	<0.001	0.03	<0.1	0.61	3.0	2.8	<0.05	1	<0.5	<0.2			
1480018	Rock	<1	22	0.07	37	0.002	<1	0.21	0.003	0.30	0.3	1.64	<0.1	1.4	5.29	3	<0.5	<0.2	0.03	3.15	0.34
1480019	Rock	2	23	0.04	54	0.017	2	0.32	0.003	0.37	0.2	2.99	0.3	0.9	0.57	3	<0.5	<0.2	0.01	3.11	0.02
1480020	Rock	2	8	0.05	86	0.022	3	0.35	0.002	0.83	1.1	1.06	0.3	1.5	1.16	6	<0.5	<0.2	0.01	3.36	<0.01
1480021	Rock	2	4	<0.01	6	<0.001	<1	0.05	0.001	0.04	<0.1	1.80	<0.1	<0.1	<0.05	<1	<0.5	<0.2	<0.01	1.77	<0.01
1480022	Rock	3	9	3.63	24	<0.001	2	0.06	0.008	0.01	0.2	4.94	4.4	<0.1	3.18	<1	0.8	<0.2			
1480023	Rock	2	2	5.31	146	<0.001	2	0.12	0.010	0.07	0.4	1.34	2.4	<0.1	0.43	<1	0.9	<0.2	0.18	2.97	0.11
1480024	Rock	6	3	0.26	45	<0.001	<1	0.12	0.002	0.07	0.6	23.16	0.8	0.1	2.70	10	10.3	<0.2	0.15	14.67	11.37
1480025	Rock	2	6	1.50	19	<0.001	2	0.12	0.003	0.04	1.5	10.18	1.3	<0.1	3.05	<1	2.8	<0.2			
1480026	Rock	8	5	0.80	59	0.001	3	0.22	0.005	0.11	1.3	9.17	1.2	<0.1	0.99	2	1.9	<0.2	0.02	0.17	2.29
1480027	Rock	14	6	1.34	134	<0.001	2	0.16	0.006	0.10	2.2	0.14	2.1	<0.1	0.70	<1	<0.5	<0.2	0.02	4.61	<0.01
1480028	Rock	1	2	0.19	22	<0.001	<1	0.02	<0.001	0.01	0.2	1.30	0.9	0.8	8.76	<1	4.3	<0.2	0.02	>20	0.22
1480115	Rock	17	114	0.99	85	0.003	4	0.90	0.019	0.09	<0.1	45.99	12.0	0.3	0.33	4	2.8	0.2	0.23	5.60	10.79
1480116	Rock	20	92	1.01	88	0.002	<1	1.04	0.025	0.16	<0.1	2.79	12.0	0.1	0.11	3	1.2	<0.2	0.13	0.68	2.34
1480117	Rock	29	39	0.24	114	0.001	3	0.85	0.024	0.27	<0.1	1.95	7.3	0.1	<0.05	2	<0.5	<0.2			
1480118	Rock	3	7	0.08	41	0.001	1	0.14	0.006	0.08	<0.1	7.34	2.6	<0.1	0.15	<1	<0.5	<0.2	0.03	1.12	1.82
1480119	Rock	<1	9	0.03	21	<0.001	<1	0.02	<0.001	0.02	<0.1	>50	<0.1	0.3	2.78	2	25.9	1.1	1.13	14.74	9.54
1480251	Rock	2	10	0.09	7	<0.001	<1	0.14	0.004	<0.01	<0.1	0.62	0.3	<0.1	<0.05	<1	<0.5	<0.2			
1480252	Rock	<1	4	0.70	16	<0.001	1	0.04	0.002	0.02	0.3	2.57	3.1	<0.1	0.77	<1	13.7	0.4	2.16	0.30	0.06
1480253	Rock	<1	4	2.35	24	<0.001	<1	0.03	0.005	0.02	0.7	0.41	4.1	<0.1	0.46	<1	<0.5	<0.2			
1480254	Rock	9	102	0.32	46	0.011	4	0.60	0.003	0.42	<0.1	0.07	9.6	0.7	0.88	1	<0.5	<0.2			
1480255	Rock	9	145	0.19	35	0.008	4	0.52	0.003	0.36	<0.1	0.32	2.4	0.7	3.68	2	<0.5	<0.2			
1480256	Rock	16	8	0.45	16	0.002	3	0.87	0.004	0.22	<0.1	0.03	1.2	<0.1	<0.05	4	1.1	<0.2			



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Vancouver British Columbia V6C 1T2 Canada

Project: McKay Hill  
Report Date: September 01, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000335.1

Method	FA530	CV402	GC817
Analyte	Ag	CVHg	Pb
Unit	gm/t	ppm	%
MDL	20	0.01	2
1480010	Rock		
1480011	Rock		
1480012	Rock	98	
1480013	Rock		
1480014	Rock	286	
1480015	Rock	116	
1480016	Rock		
1480017	Rock		
1480018	Rock		
1480019	Rock		
1480020	Rock		
1480021	Rock		
1480022	Rock		
1480023	Rock	106	
1480024	Rock	291	
1480025	Rock		
1480026	Rock		
1480027	Rock		
1480028	Rock	277	67.44
1480115	Rock		
1480116	Rock		
1480117	Rock		
1480118	Rock		
1480119	Rock	331	>100
1480251	Rock		
1480252	Rock	101	
1480253	Rock		
1480254	Rock		
1480255	Rock		
1480256	Rock		



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**Project:** McKay Hill  
**Report Date:** September 01, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000335.1

Method	Analyte	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01
1480257	Rock	3.23	0.8	1350.3	571.3	361	7.5	288.2	439.6	810	18.26	49.7	46.4	0.2	4	0.6	3.0	2.0	200	0.07	0.028
1480258	Rock	1.30	2.0	40.7	365.6	34	2.4	286.8	612.1	205	30.51	112.1	41.4	0.1	<1	0.1	3.8	18.5	68	0.03	0.017
1480259	Rock	3.21	0.4	34.4	26.1	40	0.1	44.3	11.2	2323	4.17	<0.5	2.6	<0.1	22	0.2	1.1	<0.1	26	1.85	0.005
1480260	Rock	4.46	2.5	25.9	32.8	42	0.4	54.1	11.0	2040	4.53	24.6	1.1	0.4	6	0.1	21.2	0.4	14	0.24	0.027
1480261	Rock	0.78	0.4	79.8	1151.0	272	1.8	9.9	6.7	1275	2.14	2.5	0.9	2.2	103	1.0	2.1	0.7	13	6.87	0.020
1480262	Rock	4.31	5.8	96.0	>10000	73	38.8	36.1	9.1	1856	4.33	32.7	1.9	3.6	141	1.7	69.7	1.7	186	12.79	0.007
1480263	Rock	2.38	2.6	49.9	94.7	151	0.3	30.8	8.4	2270	4.89	19.5	<0.5	2.4	134	1.3	1.9	0.1	141	17.52	0.032
1480264	Rock	3.74	1.5	29.8	182.2	133	0.3	19.1	3.6	1487	2.48	4.0	<0.5	5.9	89	0.8	1.3	<0.1	44	8.00	0.057
1480265	Rock	1.10	0.4	124.2	58.8	243	0.4	88.3	41.3	1611	8.45	15.1	<0.5	<0.1	91	0.3	0.5	0.7	328	2.87	0.033
1480266	Rock	1.64	1.7	415.2	28.5	1635	1.0	28.4	6.9	1499	4.17	66.9	<0.5	4.0	149	14.8	0.9	<0.1	144	14.05	0.046



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# CERTIFICATE OF ANALYSIS

WHI18000335.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404	MA404	MA404
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.01	0.01	0.01	
1480257	Rock	4	47	2.33	9	0.170	<1	2.89	0.002	0.07	<0.1	0.23	16.3	0.2	>10	11	3.9	1.1			
1480258	Rock	<1	30	1.49	8	0.003	2	1.84	0.002	0.25	<0.1	0.32	5.1	1.1	>10	4	8.9	1.4			
1480259	Rock	<1	8	1.61	5	0.003	<1	1.37	0.015	0.01	<0.1	0.02	3.9	<0.1	0.05	3	<0.5	<0.2			
1480260	Rock	<1	10	0.55	6	<0.001	<1	0.04	0.005	0.03	<0.1	0.22	1.1	0.1	1.23	<1	1.2	<0.2			
1480261	Rock	3	5	2.81	24	<0.001	2	0.13	0.008	0.10	<0.1	0.13	3.0	<0.1	0.06	<1	1.1	<0.2			
1480262	Rock	2	3	5.38	53	<0.001	<1	0.04	0.014	0.03	0.3	0.08	2.7	<0.1	0.93	<1	0.8	<0.2	0.01	7.12	0.01
1480263	Rock	13	8	7.18	26	0.001	1	0.15	0.017	0.12	<0.1	0.04	5.5	0.2	0.14	<1	0.7	<0.2			
1480264	Rock	11	12	3.49	37	0.003	2	0.36	0.017	0.20	<0.1	0.03	4.1	<0.1	0.06	1	0.6	<0.2			
1480265	Rock	2	131	4.81	49	0.064	1	4.63	0.014	0.28	<0.1	<0.01	31.8	0.4	0.05	14	<0.5	<0.2			
1480266	Rock	9	19	5.38	12	0.002	<1	0.12	0.030	0.06	<0.1	0.57	4.9	<0.1	0.21	<1	0.6	<0.2			





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## CERTIFICATE OF ANALYSIS

WHI18000335.1

Method	FA530	CV402	GC817
Analyte	Ag	CVHg	Pb
Unit	gm/t	ppm	%
MDL	20	0.01	2
1480257	Rock		
1480258	Rock		
1480259	Rock		
1480260	Rock		
1480261	Rock		
1480262	Rock		
1480263	Rock		
1480264	Rock		
1480265	Rock		
1480266	Rock		



# QUALITY CONTROL REPORT

WHI18000335.1

Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
Pulp Duplicates																					
1480116	Rock	2.69	0.9	1324.4	7116.0	>10000	4.4	110.3	35.6	1357	6.48	98.8	2.7	4.7	137	495.8	148.9	0.3	60	5.62	0.220
REP 1480116	QC																				
REP 1480119	QC																				
1480251	Rock	2.48	0.3	50.8	535.1	195	0.8	8.0	2.6	173	0.67	2.0	2.5	0.1	38	4.6	48.8	<0.1	4	0.56	0.025
REP 1480251	QC		0.3	47.4	518.8	174	0.8	7.6	2.7	165	0.65	1.9	0.9	0.1	36	5.0	45.9	<0.1	3	0.53	0.024
Core Reject Duplicates																					
1480119	Rock	2.48	0.9	>10000	>10000	>10000	>100	6.2	3.6	108	0.67	152.7	944.8	0.1	35	1663.0	>2000	7.9	4	0.05	0.007
DUP 1480119	QC		0.9	>10000	>10000	>10000	>100	6.7	3.9	111	0.70	147.9	1013.8	0.1	31	1679.7	>2000	6.2	4	0.06	0.008
Reference Materials																					
STD AGPROOF	Standard																				
STD CPB-2	Standard																				
STD CPB-2	Standard																				
STD CVHG-4	Standard																				
STD DS11	Standard		15.7	159.2	150.3	342	1.7	78.4	14.6	1043	3.20	44.0	97.5	8.4	68	2.4	7.4	13.0	51	1.10	0.074
STD DS11	Standard		13.4	152.5	130.2	331	1.7	76.8	13.0	1038	3.14	41.5	61.9	7.5	65	2.2	7.1	10.9	51	1.08	0.069
STD OREAS134B	Standard																				
STD OREAS133A	Standard																				
STD OREAS134B	Standard																				
STD OREAS133A	Standard																				
STD OREAS623	Standard																				
STD OXC129	Standard		1.4	29.8	8.0	45	<0.1	82.5	21.0	427	3.07	0.9	200.0	2.1	199	<0.1	<0.1	<0.1	54	0.69	0.104
STD OXC129	Standard		1.3	26.3	6.7	42	<0.1	78.1	20.4	416	3.06	0.8	199.8	1.8	196	<0.1	<0.1	<0.1	54	0.67	0.100
STD OXQ114	Standard																				
STD SP49	Standard																				
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD AGPROOF Expected																					
STD SP49 Expected																					



# QUALITY CONTROL REPORT

WHI18000335.1

Method	Analyte	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	Cu	Pb	Zn	MA404
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te					
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%		
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01	0.01		
Pulp Duplicates																							
1480116	Rock	20	92	1.01	88	0.002	<1	1.04	0.025	0.16	<0.1	2.79	12.0	0.1	0.11	3	1.2	<0.2	0.13	0.68	2.34		
REP 1480116	QC																		0.13	0.68	2.36		
REP 1480119	QC																						
1480251	Rock	2	10	0.09	7	<0.001	<1	0.14	0.004	<0.01	<0.1	0.62	0.3	<0.1	<0.05	<1	<0.5	<0.2					
REP 1480251	QC	2	10	0.08	7	<0.001	<1	0.14	0.004	<0.01	<0.1	0.57	0.4	<0.1	<0.05	<1	<0.5	<0.2					
Core Reject Duplicates																							
1480119	Rock	<1	9	0.03	21	<0.001	<1	0.02	<0.001	0.02	<0.1	>50	<0.1	0.3	2.78	2	25.9	1.1	1.13	14.74	9.54		
DUP 1480119	QC	<1	11	0.04	20	<0.001	<1	0.02	<0.001	0.02	<0.1	>50	0.5	0.3	2.68	2	20.7	1.0	1.06	14.65	9.82		
Reference Materials																							
STD AGPROOF	Standard																						
STD CPB-2	Standard																						
STD CPB-2	Standard																						
STD CVHG-4	Standard																						
STD DS11	Standard	20	66	0.86	385	0.096	8	1.18	0.076	0.42	3.0	0.27	3.6	5.4	0.28	5	1.9	4.7					
STD DS11	Standard	18	59	0.85	355	0.096	6	1.15	0.074	0.41	2.6	0.25	3.2	4.6	0.28	5	1.6	4.7					
STD OREAS134B	Standard																		0.13	13.33	17.54		
STD OREAS133A	Standard																		0.03	4.92	10.56		
STD OREAS134B	Standard																		0.14	13.25	18.07		
STD OREAS133A	Standard																		0.04	4.94	10.85		
STD OREAS623	Standard																						
STD OXC129	Standard	13	57	1.51	51	0.414	2	1.62	0.606	0.38	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2					
STD OXC129	Standard	13	52	1.54	51	0.408	<1	1.59	0.617	0.38	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2					
STD OXQ114	Standard																						
STD SP49	Standard																						
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5							
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56					
STD AGPROOF Expected																							
STD SP49 Expected																							



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client: Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

Project: McKay Hill  
Report Date: September 01, 2018

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## QUALITY CONTROL REPORT

WHI18000335.1

Method	FA530	CV402	GC817
Analyte	Ag	CVHg	Pb
Unit	gm/t	ppm	%
MDL	20	0.01	2
Pulp Duplicates			
1480116	Rock		
REP 1480116	QC		
REP 1480119	QC	>100	
1480251	Rock		
REP 1480251	QC		
Core Reject Duplicates			
1480119	Rock	331	>100
DUP 1480119	QC	301	>100
Reference Materials			
STD AGPROOF	Standard	97	
STD CPB-2	Standard		64.17
STD CPB-2	Standard		63.34
STD CVHG-4	Standard	0.71	
STD DS11	Standard		
STD DS11	Standard		
STD OREAS134B	Standard		
STD OREAS133A	Standard		
STD OREAS134B	Standard		
STD OREAS133A	Standard		
STD OREAS623	Standard	0.72	
STD OXC129	Standard		
STD OXC129	Standard		
STD OXQ114	Standard	126	
STD SP49	Standard	57	
STD OXC129 Expected			
STD DS11 Expected			
STD AGPROOF Expected		94	
STD SP49 Expected		60.2	



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# QUALITY CONTROL REPORT

WHI18000335.1

		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001	
STD OXQ114 Expected																						
STD OREAS134B Expected																						
STD OREAS133A Expected																						
STD CVHG-4 Expected																						
STD OREAS623 Expected																						
STD CPB-2 Expected																						
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
Prep Wash																						
ROCK-WHI	Prep Blank		1.2	39.6	4.2	40	0.7	1.2	3.4	523	1.74	1.3	2.3	2.2	24	<0.1	<0.1	<0.1	21	0.61	0.043	
ROCK-WHI	Prep Blank		1.3	78.7	3.0	38	0.3	0.9	3.4	521	1.80	1.3	<0.5	2.1	26	<0.1	<0.1	<0.1	22	0.73	0.043	



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# QUALITY CONTROL REPORT

WHI18000335.1

		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA404
La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%
1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01	0.01
STD OXQ114 Expected																			
STD OREAS134B Expected																			
STD OREAS133A Expected																			
STD CVHG-4 Expected																			
STD OREAS623 Expected																			
STD CPB-2 Expected																			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
BLK	Blank																		
Prep Wash																			
ROCK-WHI	Prep Blank	5	3	0.48	53	0.067	3	0.94	0.103	0.11	<0.1	0.01	2.4	<0.1	0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	6	3	0.48	58	0.074	<1	0.97	0.083	0.10	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2	



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**Project:** McKay Hill  
**Report Date:** September 01, 2018

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## QUALITY CONTROL REPORT

WHI18000335.1

		FA530	CV402	GC817
		Ag	CVHg	Pb
		gm/t	ppm	%
		20	0.01	2
STD OXQ114 Expected		127.1		
STD OREAS134B Expected				
STD OREAS133A Expected				
STD CVHG-4 Expected			0.743	
STD OREAS623 Expected			0.79	
STD CPB-2 Expected				63.52
BLK	Blank			
BLK	Blank			
BLK	Blank			
BLK	Blank	<20		
BLK	Blank			
BLK	Blank		<0.01	
Prep Wash				
ROCK-WHI	Prep Blank			
ROCK-WHI	Prep Blank			



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PHONE (604) 253-3158

**Client:** **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2 Canada

Submitted By: Scott Petsel  
Receiving Lab: Canada-Whitehorse  
Received: July 20, 2018  
Report Date: August 21, 2018  
Page: 1 of 7

# CERTIFICATE OF ANALYSIS

WHI18000404.1

## CLIENT JOB INFORMATION

Project: McKay Hill  
Shipment ID: MH  
P.O. Number: McKay Hill  
Number of Samples: 162

## SAMPLE DISPOSAL

RTRN-PLP Return 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.

Invoice To: **Metallic Minerals Corp.**  
#904 - 409 Granville Street  
Vancouver British Columbia V6C 1T2  
Canada

CC: Lauren Blackburn  
Samantha Dyck

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	162	Dry at 60C			WHI
SS80	162	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	162	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	162	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS

  
KERRY JAY  
Geochem Project Specialist

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.





Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Project:** McKay Hill  
**Report Date:** August 21, 2018

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# CERTIFICATE OF ANALYSIS

# WHI18000404.1

Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1480729	Soil	0.6	36.2	34.4	117	<0.1	43.2	25.1	1295	5.47	10.0	2.3	7.2	6	<0.1	0.7	0.4	26	0.09	0.052	9
1480730	Soil	0.8	38.5	32.8	100	<0.1	38.2	23.5	1215	4.82	9.5	2.3	6.8	5	<0.1	0.8	0.4	26	0.07	0.072	20
1480731	Soil	1.6	14.0	20.3	33	<0.1	10.4	4.7	180	3.45	11.1	2.4	3.7	6	<0.1	0.6	0.3	63	0.06	0.035	24
1480732	Soil	1.3	51.0	51.6	90	<0.1	37.2	25.7	1118	4.99	22.1	1.3	7.3	6	<0.1	1.1	0.6	26	0.04	0.060	9
1480733	Soil	1.1	39.1	31.3	97	<0.1	38.4	23.1	1300	4.91	12.6	2.0	6.2	7	<0.1	0.7	0.4	24	0.05	0.053	8
1480734	Soil	1.0	41.7	42.9	111	<0.1	41.6	25.4	1216	5.03	12.0	114.2	7.3	11	<0.1	0.8	0.4	26	0.17	0.063	16
1480735	Soil	0.9	58.5	48.9	102	<0.1	46.1	33.0	1394	4.89	25.7	<0.5	10.1	12	<0.1	0.5	0.4	35	0.21	0.077	60
1480736	Soil	1.4	74.8	84.8	280	0.2	146.7	50.9	1486	8.20	429.4	7.7	3.5	128	1.1	9.6	<0.1	184	1.74	0.336	49
1480737	Soil	1.2	66.0	67.2	140	<0.1	79.0	31.2	1696	5.22	35.2	3.9	6.2	25	0.5	8.5	0.4	43	0.25	0.100	32
1480740	Soil	1.2	22.5	21.4	63	<0.1	24.4	11.9	679	3.53	13.0	1.0	0.6	9	0.1	0.5	0.2	56	0.10	0.068	14
1480741	Soil	0.8	28.3	14.8	98	<0.1	35.9	18.7	839	5.02	6.2	1.3	5.4	5	<0.1	0.3	0.5	32	0.09	0.069	15
1480742	Soil	0.9	34.5	27.7	104	<0.1	38.1	22.5	1188	5.40	12.7	1.1	6.7	7	<0.1	0.8	0.3	24	0.07	0.050	8
1480743	Soil	0.9	42.5	43.6	101	<0.1	39.6	24.7	1181	5.39	11.2	1.4	5.9	6	<0.1	0.7	0.4	28	0.07	0.071	15
1480744	Soil	1.2	66.7	65.0	239	0.1	150.8	44.5	1572	8.60	280.8	7.9	2.3	109	0.9	7.5	<0.1	194	1.89	0.292	51
1480746	Soil	1.5	54.8	48.1	76	<0.1	26.5	16.5	809	3.34	19.4	1.9	3.2	9	0.1	0.7	0.3	43	0.14	0.082	20
1480747	Soil	0.6	47.9	49.6	95	<0.1	45.5	25.1	1127	5.70	11.4	1.3	13.9	14	<0.1	0.2	0.4	23	0.23	0.050	37
1480748	Soil	0.9	74.2	47.7	94	<0.1	42.1	24.1	943	5.45	11.5	1.4	11.6	17	<0.1	0.2	0.4	26	0.19	0.058	28
1480749	Soil	0.8	46.4	39.8	98	<0.1	40.9	25.9	1195	5.64	16.0	<0.5	11.9	5	<0.1	0.4	0.4	27	0.11	0.050	28
1480750	Soil	1.0	46.1	61.5	87	<0.1	35.2	21.3	744	3.90	13.9	2.9	9.5	8	<0.1	0.5	0.4	33	0.12	0.063	23
1480751	Soil	1.3	28.7	30.4	73	<0.1	26.8	15.2	940	3.88	11.5	1.1	0.8	6	<0.1	0.8	0.4	38	0.05	0.082	12
1480752	Soil	1.0	37.8	36.7	97	<0.1	37.5	22.4	1048	5.03	12.6	10.8	4.6	7	<0.1	0.7	0.4	32	0.08	0.072	12
1480753	Soil	2.9	57.1	145.7	387	0.1	67.7	38.4	1410	8.28	1584.6	8.9	3.6	119	1.2	16.6	0.1	90	1.10	0.313	57
1480754	Soil	1.3	52.7	58.4	403	0.1	74.4	40.4	1926	7.78	199.0	12.9	4.5	124	1.6	15.0	<0.1	164	1.12	0.398	70
1480755	Soil	1.0	51.4	33.5	87	<0.1	41.1	19.2	898	4.88	17.6	1.9	9.4	16	<0.1	0.3	0.4	31	0.21	0.051	31
1480756	Soil	1.6	44.0	30.4	68	<0.1	31.5	20.9	709	3.34	14.7	3.1	6.3	13	0.1	0.9	0.3	35	0.18	0.084	26
1480758	Soil	1.4	54.8	43.8	71	<0.1	36.4	17.6	812	3.95	14.0	3.7	6.0	14	<0.1	0.4	0.4	35	0.21	0.055	23
1480759	Soil	1.5	22.6	25.6	63	<0.1	17.3	10.8	723	4.12	15.9	0.8	1.0	6	0.1	0.8	0.3	53	0.06	0.073	15
1480760	Soil	1.1	86.6	599.0	655	0.3	56.9	24.8	1350	4.87	97.3	6.4	0.8	25	5.9	45.4	0.4	48	0.29	0.143	24
1480761	Soil	0.9	29.2	32.0	88	<0.1	35.1	20.3	1031	4.35	13.3	1.1	3.2	7	<0.1	0.8	0.3	33	0.08	0.076	15
1480762	Soil	0.7	51.9	123.6	296	0.1	87.0	36.0	1758	7.27	767.8	2.2	1.7	74	1.3	13.4	<0.1	129	1.13	0.203	41



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# CERTIFICATE OF ANALYSIS

WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1480729	Soil	41	0.86	34	<0.001	1	2.71	0.004	0.05	<0.1	0.01	2.7	<0.1	<0.05	9	<0.5	<0.2
1480730	Soil	37	0.81	47	0.002	1	2.53	0.005	0.05	<0.1	0.01	2.4	<0.1	<0.05	8	<0.5	<0.2
1480731	Soil	19	0.14	42	0.023	2	0.95	0.004	0.04	0.1	0.03	1.4	0.1	0.08	8	<0.5	<0.2
1480732	Soil	37	0.67	45	0.001	1	2.43	0.005	0.05	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
1480733	Soil	35	0.71	37	0.001	2	2.38	0.004	0.04	<0.1	<0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
1480734	Soil	36	0.75	49	0.003	2	2.48	0.005	0.06	<0.1	0.01	2.3	<0.1	<0.05	8	<0.5	<0.2
1480735	Soil	48	0.85	79	0.006	1	2.37	0.005	0.05	<0.1	0.03	3.8	<0.1	<0.05	7	<0.5	<0.2
1480736	Soil	222	1.28	221	0.020	3	1.48	0.007	0.06	<0.1	0.71	16.3	0.2	0.05	7	<0.5	<0.2
1480737	Soil	81	1.09	72	0.009	1	2.04	0.005	0.06	<0.1	0.11	5.0	<0.1	<0.05	6	<0.5	<0.2
1480740	Soil	38	0.50	87	0.024	1	1.59	0.006	0.05	0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
1480741	Soil	35	0.69	29	0.007	<1	2.23	0.005	0.05	<0.1	0.02	2.1	<0.1	<0.05	8	<0.5	<0.2
1480742	Soil	34	0.69	32	0.001	<1	2.34	0.004	0.04	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5	<0.2
1480743	Soil	37	0.74	42	0.003	<1	2.52	0.005	0.05	<0.1	0.02	2.3	<0.1	<0.05	8	<0.5	<0.2
1480744	Soil	254	1.02	235	0.014	2	1.37	0.007	0.04	<0.1	0.80	17.2	0.2	0.07	6	<0.5	<0.2
1480746	Soil	28	0.43	54	0.025	<1	1.64	0.006	0.05	0.2	0.04	2.0	<0.1	<0.05	5	0.6	<0.2
1480747	Soil	40	0.88	63	0.001	2	2.78	0.005	0.09	<0.1	<0.01	3.5	<0.1	<0.05	9	<0.5	<0.2
1480748	Soil	40	0.78	77	0.001	<1	2.42	0.005	0.06	<0.1	0.01	3.4	<0.1	<0.05	8	<0.5	<0.2
1480749	Soil	38	0.75	42	0.003	<1	2.43	0.004	0.05	<0.1	<0.01	2.4	<0.1	<0.05	8	<0.5	<0.2
1480750	Soil	32	0.62	52	0.013	1	2.01	0.005	0.05	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
1480751	Soil	32	0.46	58	0.007	<1	1.91	0.006	0.06	<0.1	0.03	1.1	<0.1	<0.05	7	<0.5	<0.2
1480752	Soil	36	0.70	49	0.005	<1	2.35	0.005	0.05	<0.1	0.01	2.2	<0.1	<0.05	8	<0.5	<0.2
1480753	Soil	41	0.29	212	0.003	1	1.29	0.007	0.06	0.1	0.61	12.7	0.5	0.07	4	0.5	<0.2
1480754	Soil	102	1.35	190	0.030	2	1.92	0.007	0.04	<0.1	0.27	10.8	0.2	<0.05	9	<0.5	<0.2
1480755	Soil	42	0.78	77	0.005	<1	2.28	0.006	0.05	<0.1	0.03	3.2	<0.1	<0.05	8	<0.5	<0.2
1480756	Soil	24	0.43	84	0.022	1	1.35	0.007	0.05	0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
1480758	Soil	40	0.71	84	0.009	<1	2.12	0.006	0.05	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
1480759	Soil	30	0.30	53	0.030	1	1.61	0.005	0.05	0.1	0.06	1.5	0.1	<0.05	8	0.6	<0.2
1480760	Soil	41	0.46	93	0.011	<1	1.50	0.006	0.06	<0.1	0.98	2.8	<0.1	<0.05	5	<0.5	<0.2
1480761	Soil	34	0.62	45	0.007	<1	1.96	0.004	0.04	<0.1	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
1480762	Soil	126	1.16	389	0.053	2	1.90	0.008	0.13	0.1	0.15	12.1	0.3	0.07	9	0.6	<0.2

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



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**Project:** McKay Hill  
**Report Date:** August 21, 2018

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# CERTIFICATE OF ANALYSIS

# WHI18000404.1

Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1480763	Soil	0.8	77.3	34.8	114	0.2	118.6	38.3	1143	4.64	79.6	3.8	2.2	50	0.6	4.6	0.1	128	0.92	0.152	30
1480764	Soil	1.3	62.6	51.6	147	0.3	48.4	42.7	2312	10.03	791.7	6.5	1.5	75	0.8	22.0	<0.1	71	1.31	0.191	20
1480765	Soil	1.2	23.8	23.9	50	<0.1	20.7	8.7	382	3.29	18.5	1.4	1.4	10	0.1	0.9	0.3	33	0.11	0.062	17
1480766	Soil	1.9	26.6	21.6	51	<0.1	19.5	9.8	381	3.18	17.4	4.5	3.1	12	<0.1	0.8	0.3	53	0.15	0.042	14
1480767	Soil	1.4	22.8	16.8	72	<0.1	25.3	12.7	855	3.52	13.2	1.4	0.6	8	0.4	0.7	0.3	51	0.10	0.085	12
1480768	Soil	0.9	31.7	21.0	71	<0.1	28.5	16.1	749	3.60	25.6	2.6	2.3	15	0.1	2.5	0.2	56	0.24	0.105	32
1480769	Soil	0.9	43.6	44.0	102	<0.1	46.3	25.4	1250	5.17	17.3	1.7	8.2	11	<0.1	1.0	0.4	27	0.21	0.054	21
1480770	Soil	0.9	70.8	617.6	1026	0.3	101.8	40.4	2252	7.28	453.5	6.3	1.1	81	5.2	52.2	0.1	129	1.45	0.181	30
1480771	Soil	0.5	69.8	31.8	120	0.1	173.6	47.6	1263	7.07	34.3	5.9	2.9	70	0.4	2.4	0.1	198	1.11	0.211	28
1480772	Soil	1.1	60.4	336.0	376	0.6	80.5	26.0	1258	5.59	70.5	7.3	1.8	48	3.3	15.3	0.2	89	0.84	0.138	29
1480773	Soil	1.4	53.3	45.4	117	0.2	67.6	36.6	1532	9.30	324.6	6.3	4.8	72	0.5	10.9	0.2	75	1.00	0.302	34
1480774	Soil	1.2	35.4	22.7	76	0.1	26.3	15.4	727	4.73	44.1	3.2	2.7	40	0.2	2.9	0.2	58	0.63	0.110	22
1480775	Soil	1.4	47.1	36.9	94	<0.1	27.9	20.2	883	4.70	168.0	2.4	1.2	20	0.2	3.0	0.2	83	0.41	0.094	20
1480776	Soil	1.1	36.8	29.0	81	<0.1	29.3	19.4	954	4.77	192.8	2.1	1.6	22	0.3	2.4	0.2	71	0.28	0.124	25
1480777	Soil	1.1	26.8	22.7	90	<0.1	20.3	12.5	691	4.10	20.5	5.4	0.3	13	0.4	1.8	0.2	71	0.17	0.095	16
1480778	Soil	1.0	31.1	36.4	97	<0.1	37.6	18.9	822	4.31	37.0	1.6	1.4	31	0.3	1.8	0.2	78	0.41	0.116	27
1480780	Soil	1.2	72.0	400.4	439	0.3	81.4	38.3	1985	6.52	71.8	3.2	3.1	82	4.0	19.8	0.1	111	1.07	0.225	29
1480782	Soil	1.3	25.8	86.7	229	<0.1	38.8	13.3	604	3.74	47.6	5.1	1.5	28	0.9	4.7	0.2	55	0.48	0.088	23
1480783	Soil	1.5	33.5	78.0	181	<0.1	45.9	26.0	1300	6.91	469.7	2.8	1.7	31	0.6	11.3	0.2	63	0.46	0.167	21
1480784	Soil	0.8	29.8	16.0	66	<0.1	28.8	11.1	441	3.19	31.7	4.9	2.4	21	0.1	1.0	0.2	52	0.35	0.100	22
1480785	Soil	1.2	38.1	22.1	89	<0.1	26.0	15.2	599	4.34	79.6	3.1	1.8	26	0.1	2.1	0.2	83	0.58	0.101	19
1480786	Soil	1.1	31.8	28.7	86	<0.1	29.0	19.0	920	4.62	200.1	3.9	2.0	23	0.2	2.0	0.2	65	0.38	0.101	19
1480787	Soil	1.1	32.1	27.6	89	<0.1	27.8	18.9	730	4.57	192.7	3.2	1.7	20	0.2	2.3	0.2	79	0.29	0.089	21
1480788	Soil	1.0	47.4	68.6	176	0.1	63.5	27.0	1161	6.40	52.1	3.9	2.2	51	0.3	4.4	0.2	89	0.78	0.168	35
1480790	Soil	1.3	61.1	79.9	201	0.2	56.9	34.5	1572	5.97	45.0	1.9	3.1	69	1.0	10.1	0.1	124	0.83	0.226	41
1480791	Soil	1.1	29.0	112.7	206	<0.1	46.4	16.8	757	3.74	61.9	6.2	0.7	22	0.9	5.4	0.2	60	0.28	0.100	24
1480792	Soil	1.0	35.0	373.5	501	0.3	36.2	15.7	615	3.72	47.2	6.7	2.4	26	2.9	16.3	0.2	49	0.39	0.091	19
1480793	Soil	1.5	48.9	51.0	115	<0.1	59.1	26.8	1281	5.06	37.5	2.0	5.9	24	0.3	5.7	0.3	36	0.29	0.102	20
1480794	Soil	1.1	28.8	19.5	72	0.2	23.8	15.3	643	3.02	31.6	4.6	1.4	29	0.2	1.3	0.2	49	0.46	0.120	23
1480795	Soil	0.9	30.4	18.7	72	<0.1	25.7	18.0	584	3.81	41.8	0.9	4.0	18	0.2	1.7	0.2	63	0.28	0.106	19



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# CERTIFICATE OF ANALYSIS

# WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1480763	Soil	216	1.33	185	0.040	1	1.99	0.009	0.06	0.3	0.08	12.3	0.1	<0.05	7	<0.5	<0.2
1480764	Soil	27	0.42	172	0.007	2	1.09	0.007	0.04	0.1	0.22	14.9	0.1	0.09	3	0.5	<0.2
1480765	Soil	24	0.29	77	0.009	<1	1.26	0.005	0.05	0.1	0.04	1.6	<0.1	<0.05	4	<0.5	<0.2
1480766	Soil	26	0.33	95	0.029	<1	1.40	0.005	0.06	0.2	0.03	2.5	0.1	<0.05	7	<0.5	<0.2
1480767	Soil	32	0.41	91	0.027	1	1.45	0.006	0.06	0.1	0.05	1.6	<0.1	0.09	7	<0.5	<0.2
1480768	Soil	24	0.49	106	0.017	1	1.44	0.005	0.04	<0.1	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2
1480769	Soil	42	0.80	41	0.002	<1	2.25	0.004	0.04	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	<0.2
1480770	Soil	158	1.32	272	0.018	3	1.86	0.009	0.06	<0.1	1.26	12.4	0.3	0.09	7	0.6	<0.2
1480771	Soil	517	4.37	379	0.172	<1	3.41	0.006	0.21	0.1	0.10	14.2	0.3	<0.05	13	<0.5	<0.2
1480772	Soil	133	1.02	236	0.019	1	1.74	0.006	0.06	0.1	0.41	9.8	0.1	<0.05	6	0.5	<0.2
1480773	Soil	64	0.41	127	0.008	1	1.24	0.006	0.05	0.2	0.15	18.4	<0.1	<0.05	3	<0.5	<0.2
1480774	Soil	30	0.51	203	0.015	<1	1.38	0.008	0.06	0.1	0.09	8.0	<0.1	<0.05	4	<0.5	<0.2
1480775	Soil	32	0.91	190	0.042	<1	2.11	0.008	0.06	<0.1	0.05	3.9	0.2	<0.05	7	<0.5	<0.2
1480776	Soil	30	0.55	179	0.017	1	1.75	0.005	0.05	0.1	0.07	5.4	0.1	<0.05	5	<0.5	<0.2
1480777	Soil	27	0.57	131	0.016	<1	1.55	0.006	0.05	<0.1	0.05	1.6	0.1	<0.05	6	<0.5	<0.2
1480778	Soil	57	0.81	201	0.028	<1	1.79	0.007	0.06	<0.1	0.06	3.8	<0.1	<0.05	6	<0.5	<0.2
1480780	Soil	108	1.40	323	0.047	2	1.83	0.009	0.05	0.1	0.50	13.0	0.1	<0.05	6	<0.5	<0.2
1480782	Soil	49	0.56	197	0.014	<1	1.57	0.005	0.05	0.2	0.16	3.6	0.1	<0.05	5	<0.5	<0.2
1480783	Soil	39	0.44	172	0.009	<1	1.44	0.006	0.06	0.2	0.10	8.2	0.1	<0.05	4	<0.5	<0.2
1480784	Soil	33	0.63	191	0.028	<1	1.81	0.006	0.04	0.2	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
1480785	Soil	30	0.86	177	0.069	<1	1.85	0.006	0.05	0.1	0.05	4.2	0.1	<0.05	7	<0.5	<0.2
1480786	Soil	34	0.63	194	0.025	<1	1.79	0.006	0.05	0.2	0.04	3.8	0.1	<0.05	6	<0.5	<0.2
1480787	Soil	35	0.80	224	0.064	1	1.86	0.006	0.05	0.1	0.04	4.4	0.1	<0.05	6	<0.5	<0.2
1480788	Soil	109	1.19	228	0.011	<1	2.15	0.008	0.04	<0.1	0.14	8.2	0.1	0.06	8	<0.5	<0.2
1480790	Soil	76	1.26	255	0.035	<1	1.86	0.008	0.05	0.1	0.19	10.2	0.1	<0.05	6	<0.5	<0.2
1480791	Soil	60	0.61	164	0.018	<1	1.68	0.006	0.05	0.1	0.11	2.8	0.1	0.06	5	<0.5	<0.2
1480792	Soil	35	0.50	142	0.017	<1	1.34	0.006	0.05	0.2	0.28	3.9	<0.1	<0.05	4	<0.5	<0.2
1480793	Soil	64	0.86	76	0.005	<1	2.04	0.004	0.05	<0.1	0.06	4.6	<0.1	<0.05	6	<0.5	<0.2
1480794	Soil	30	0.54	306	0.017	1	1.69	0.006	0.04	0.1	0.06	3.6	0.1	<0.05	5	<0.5	<0.2
1480795	Soil	27	0.67	111	0.041	<1	1.70	0.005	0.04	0.1	0.04	3.5	<0.1	<0.05	5	<0.5	<0.2



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# CERTIFICATE OF ANALYSIS

WHI18000404.1

Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
1480796	Soil	0.7	33.7	17.2	70	<0.1	26.2	14.5	578	2.89	22.2	2.7	4.3	20	0.2	1.1	0.1	51	0.33	0.105	23
1480797	Soil	0.7	35.8	32.7	112	<0.1	44.7	22.3	1058	5.22	21.8	<0.5	7.1	23	<0.1	1.3	0.3	34	0.36	0.075	19
1480798	Soil	0.9	36.2	93.7	206	0.2	52.2	19.6	669	3.97	43.0	5.4	2.6	46	1.2	5.2	0.2	67	0.60	0.125	21
1480799	Soil	1.1	48.3	126.0	270	0.2	61.0	21.3	578	4.06	34.4	7.8	5.2	48	2.0	6.2	0.2	78	0.63	0.169	25
1480800	Soil	0.8	32.2	68.6	157	<0.1	50.0	16.9	590	3.34	43.5	4.6	5.0	35	0.7	5.1	0.2	45	0.42	0.114	24
1480801	Soil	1.0	35.7	209.6	499	0.2	39.1	16.3	596	3.74	48.9	6.9	3.1	25	2.6	12.0	0.2	52	0.34	0.086	20
1480802	Soil	1.0	27.4	182.2	217	0.1	33.5	15.7	607	3.16	24.4	5.9	1.7	19	0.9	5.7	0.2	42	0.25	0.110	20
1480803	Soil	1.0	50.5	45.0	111	<0.1	52.4	24.9	1272	5.04	30.6	2.9	6.2	32	0.1	4.6	0.3	34	0.32	0.078	19
1480804	Soil	1.3	53.8	48.5	98	0.1	53.1	23.3	1203	4.90	34.6	2.1	4.3	33	0.2	4.5	0.3	34	0.45	0.094	18
1480805	Soil	1.1	28.3	34.1	78	<0.1	28.7	18.0	666	3.48	20.7	2.4	3.8	12	0.2	1.0	0.3	46	0.18	0.074	21
1480806	Soil	0.7	41.8	41.6	138	<0.1	52.2	26.6	1122	5.63	28.3	1.7	7.8	20	0.1	2.2	0.3	47	0.27	0.058	25
1480807	Soil	0.9	38.2	38.1	104	<0.1	42.3	22.3	1039	5.16	19.2	1.4	7.5	17	<0.1	1.4	0.3	33	0.24	0.065	21
1480808	Soil	1.0	46.5	76.5	169	0.2	46.8	18.2	779	4.55	47.9	4.9	2.8	34	0.6	4.2	0.3	68	0.48	0.106	27
1480809	Soil	1.3	39.6	66.1	140	<0.1	33.6	15.8	609	3.38	25.4	3.6	1.6	21	0.4	2.8	0.3	52	0.26	0.103	37
1480810	Soil	1.5	54.7	369.0	474	0.3	46.8	19.9	630	3.90	38.5	7.2	6.0	35	3.3	12.6	0.2	51	0.43	0.165	30
1480811	Soil	1.4	30.5	113.9	185	<0.1	34.1	17.3	661	3.39	25.8	3.8	1.9	20	0.9	4.0	0.3	50	0.25	0.101	25
1480812	Soil	1.3	40.7	36.6	93	<0.1	27.3	17.5	1364	4.59	14.1	1.2	1.2	13	0.1	1.0	0.5	48	0.03	0.068	15
1480813	Soil	1.1	46.6	35.9	99	<0.1	51.5	22.7	1049	4.62	27.9	1.6	1.4	70	0.3	3.1	0.3	58	0.86	0.118	18
1480814	Soil	1.0	55.0	46.1	108	<0.1	53.7	22.9	945	4.71	31.1	1.5	5.9	25	0.2	4.3	0.3	33	0.28	0.083	22
1480815	Soil	1.0	37.9	42.2	140	<0.1	51.3	22.9	1056	5.51	55.3	1.0	6.4	27	0.3	2.0	0.3	46	0.33	0.075	24
1480816	Soil	0.7	39.3	45.1	120	<0.1	39.8	22.1	1034	4.69	77.6	2.7	5.0	29	0.2	2.0	0.3	52	0.44	0.081	26
1480817	Soil	0.6	34.3	39.0	108	<0.1	43.2	19.5	983	4.77	25.2	4.6	6.7	22	0.2	1.2	0.3	40	0.32	0.074	24
1480818	Soil	1.0	29.6	133.3	166	0.1	28.9	13.5	758	3.21	22.5	3.4	1.0	20	1.1	3.8	0.2	50	0.26	0.090	20
1480819	Soil	1.2	39.3	44.9	90	<0.1	27.3	15.5	944	3.41	14.5	1.6	1.5	18	0.3	2.1	0.4	41	0.22	0.061	14
1480820	Soil	1.0	40.6	36.0	79	<0.1	38.4	21.9	2171	3.80	14.9	5.8	4.7	16	<0.1	1.5	0.4	42	0.07	0.041	19
1480821	Soil	1.5	37.6	43.3	91	<0.1	27.9	15.1	777	4.47	20.3	0.8	2.8	8	0.4	1.1	0.4	57	0.06	0.052	16
1480822	Soil	1.5	23.5	22.6	63	<0.1	17.5	8.8	518	3.33	12.3	1.6	1.5	8	<0.1	0.9	0.3	55	0.05	0.042	12
1480823	Soil	1.0	48.5	32.6	92	<0.1	36.2	20.2	1560	3.99	14.9	5.5	4.8	13	<0.1	1.6	0.4	31	0.03	0.038	18
1480824	Soil	0.8	42.3	24.2	95	<0.1	57.9	26.3	1224	5.25	16.5	2.5	2.0	63	0.1	1.1	0.2	108	0.89	0.134	25
1480825	Soil	1.0	32.7	47.8	89	<0.1	52.8	25.3	926	5.06	14.2	1.6	6.3	36	0.1	1.2	0.2	87	0.42	0.152	24



Bureau Veritas Commodities Canada Ltd.

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**Project:** McKay Hill  
**Report Date:** August 21, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1480796	Soil	26	0.62	169	0.051	1	1.32	0.006	0.05	0.1	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2	
1480797	Soil	46	0.90	66	0.005	1	2.40	0.006	0.04	<0.1	0.04	4.0	<0.1	<0.05	7	<0.5	<0.2	
1480798	Soil	69	0.88	208	0.027	1	1.54	0.008	0.05	0.2	0.09	5.2	<0.1	<0.05	5	<0.5	<0.2	
1480799	Soil	83	1.08	130	0.054	1	1.49	0.010	0.05	0.2	0.15	6.4	<0.1	<0.05	5	<0.5	<0.2	
1480800	Soil	49	0.55	121	0.032	<1	0.99	0.006	0.04	0.1	0.08	4.0	<0.1	<0.05	3	<0.5	<0.2	
1480801	Soil	39	0.56	167	0.019	<1	1.44	0.006	0.05	0.1	0.25	4.8	<0.1	<0.05	4	<0.5	<0.2	
1480802	Soil	32	0.50	63	0.027	<1	1.32	0.006	0.04	0.2	0.07	2.3	<0.1	<0.05	4	<0.5	<0.2	
1480803	Soil	49	0.88	67	0.006	<1	2.24	0.005	0.03	<0.1	0.06	4.4	<0.1	<0.05	5	<0.5	<0.2	
1480804	Soil	53	0.79	120	0.005	<1	2.10	0.006	0.04	<0.1	0.08	4.7	<0.1	<0.05	5	<0.5	<0.2	
1480805	Soil	29	0.53	116	0.026	<1	1.67	0.005	0.04	0.2	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2	
1480806	Soil	63	1.01	77	0.008	<1	2.48	0.006	0.04	<0.1	0.05	4.8	<0.1	<0.05	7	<0.5	<0.2	
1480807	Soil	45	0.78	75	0.003	<1	2.28	0.004	0.03	<0.1	0.05	3.6	<0.1	<0.05	7	<0.5	<0.2	
1480808	Soil	64	0.89	200	0.016	2	1.91	0.007	0.05	0.2	0.13	6.3	0.1	<0.05	5	<0.5	<0.2	
1480809	Soil	45	0.61	141	0.014	2	1.63	0.005	0.04	0.2	0.07	2.6	0.1	<0.05	5	<0.5	<0.2	
1480810	Soil	37	0.57	83	0.032	<1	1.14	0.006	0.04	0.1	0.21	5.3	<0.1	<0.05	3	<0.5	<0.2	
1480811	Soil	34	0.52	110	0.022	<1	1.53	0.005	0.05	0.2	0.06	2.5	0.1	<0.05	5	<0.5	<0.2	
1480812	Soil	18	0.14	57	0.008	<1	0.79	0.004	0.04	<0.1	0.09	2.0	<0.1	<0.05	3	<0.5	<0.2	
1480813	Soil	67	1.10	112	0.072	2	2.12	0.007	0.06	<0.1	0.06	3.5	<0.1	<0.05	6	<0.5	<0.2	
1480814	Soil	52	0.86	66	0.007	<1	1.95	0.006	0.04	<0.1	0.05	4.5	<0.1	<0.05	5	<0.5	<0.2	
1480815	Soil	62	0.90	95	0.007	1	2.32	0.005	0.04	<0.1	0.07	4.6	<0.1	<0.05	7	<0.5	<0.2	
1480816	Soil	55	0.81	157	0.008	<1	2.36	0.006	0.04	<0.1	0.07	4.7	0.1	<0.05	6	<0.5	<0.2	
1480817	Soil	51	0.89	112	0.004	1	2.59	0.005	0.04	<0.1	0.04	4.0	<0.1	<0.05	7	<0.5	<0.2	
1480818	Soil	35	0.51	148	0.013	1	1.49	0.006	0.05	0.2	0.09	2.3	<0.1	<0.05	5	<0.5	<0.2	
1480819	Soil	23	0.32	116	0.008	<1	1.39	0.005	0.05	0.1	0.06	2.1	<0.1	<0.05	4	<0.5	<0.2	
1480820	Soil	22	0.27	140	0.017	<1	0.95	0.004	0.04	0.2	0.11	3.5	0.1	<0.05	3	<0.5	<0.2	
1480821	Soil	24	0.32	68	0.020	<1	1.48	0.004	0.04	0.1	0.06	2.5	<0.1	<0.05	6	<0.5	<0.2	
1480822	Soil	23	0.23	50	0.018	<1	1.47	0.004	0.04	0.1	0.04	1.6	0.1	<0.05	5	<0.5	<0.2	
1480823	Soil	12	0.11	60	0.004	<1	0.48	0.003	0.03	<0.1	0.08	2.7	<0.1	<0.05	1	<0.5	<0.2	
1480824	Soil	108	1.77	393	0.094	1	2.39	0.009	0.08	0.1	0.05	8.4	0.1	<0.05	8	<0.5	<0.2	
1480825	Soil	88	1.35	168	0.163	<1	2.49	0.006	0.06	0.2	0.02	4.9	<0.1	<0.05	8	<0.5	<0.2	



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1480826	Soil	1.1	48.2	50.2	127	<0.1	51.7	25.5	1344	4.80	48.9	1.3	5.3	43	0.4	3.1	0.3	44	0.49	0.096	21
1480827	Soil	0.8	36.2	39.6	114	<0.1	43.6	23.1	1190	5.31	32.1	3.0	7.5	19	0.1	1.1	0.3	40	0.29	0.066	22
1480828	Soil	0.9	42.4	53.3	130	<0.1	48.1	25.4	1178	5.37	41.2	1.2	6.7	23	0.2	2.4	0.3	53	0.33	0.088	30
1480829	Soil	0.9	36.6	33.2	94	<0.1	31.0	19.3	1316	4.05	12.4	1.7	4.2	17	0.3	1.5	0.4	35	0.08	0.045	18
1480830	Soil	1.3	50.0	46.3	100	0.2	53.2	20.1	1209	4.42	27.0	6.8	5.5	24	0.3	3.4	0.4	55	0.40	0.094	19
1480831	Soil	1.3	31.6	27.4	58	<0.1	19.8	8.6	323	4.00	20.4	2.2	2.5	8	0.2	1.8	0.3	55	0.08	0.058	13
1480832	Soil	1.2	35.6	35.1	67	<0.1	25.3	16.0	754	3.76	15.2	1.7	3.8	9	0.2	1.2	0.4	53	0.08	0.063	14
1480833	Soil	0.9	38.2	39.9	71	<0.1	28.7	22.1	1149	3.64	15.1	1.5	1.7	12	<0.1	1.0	0.5	42	0.11	0.067	12
1480834	Soil	0.9	43.3	29.2	77	<0.1	31.9	16.0	887	3.71	15.0	1.6	5.3	13	0.1	1.3	0.4	29	0.03	0.038	21
1480835	Soil	0.8	42.0	35.8	120	<0.1	48.8	22.1	918	5.01	30.2	7.2	2.3	63	0.3	0.9	0.2	117	1.00	0.113	29
1480836	Soil	0.5	39.4	10.1	97	<0.1	53.6	29.3	1048	5.87	7.5	0.8	3.4	82	0.1	0.6	<0.1	141	0.99	0.245	31
1480837	Soil	1.0	27.7	22.9	84	<0.1	48.9	23.8	1060	5.18	14.5	0.7	3.3	22	0.2	1.1	0.2	96	0.31	0.137	17
1480838	Soil	1.2	36.2	24.9	132	<0.1	59.7	24.0	1153	5.10	26.6	1.5	1.5	45	0.6	1.6	0.3	95	0.56	0.097	23
1480839	Soil	0.7	36.0	72.3	164	<0.1	40.5	20.1	971	3.99	23.7	7.0	7.0	25	0.7	2.9	0.2	42	0.35	0.089	27
1480840	Soil	1.1	41.4	39.9	91	0.1	33.8	17.2	965	3.63	15.5	2.0	2.8	19	0.1	1.9	0.4	41	0.27	0.060	14
1480841	Soil	0.9	35.5	51.3	83	<0.1	31.5	16.8	980	3.53	13.4	2.4	2.3	16	0.1	1.1	0.4	42	0.16	0.059	16
1480842	Soil	1.0	34.0	32.3	74	<0.1	26.9	15.0	836	3.21	14.3	1.5	2.7	11	0.1	1.0	0.4	32	0.06	0.047	13
1480843	Soil	0.9	34.1	30.1	75	<0.1	26.0	14.5	778	3.30	19.7	1.3	3.7	11	0.1	1.4	0.4	28	0.08	0.045	11
1480844	Soil	0.7	31.3	25.9	58	<0.1	22.5	11.7	631	2.63	18.3	1.8	1.8	10	<0.1	1.7	0.4	19	0.05	0.047	5
1480845	Soil	1.0	39.4	42.7	80	<0.1	30.3	18.1	842	3.78	25.0	4.3	3.3	13	<0.1	2.2	0.5	19	0.08	0.052	6
1481812	Soil	2.5	47.5	71.9	210	0.7	31.5	15.4	1832	3.71	19.6	11.9	4.1	29	0.6	2.9	0.6	35	1.56	0.101	16
1481814	Soil	2.9	50.3	62.5	226	0.8	29.5	13.4	883	3.34	24.3	4.3	3.9	34	0.4	2.9	0.7	34	2.64	0.084	14
1481816	Soil	3.1	42.6	67.8	217	0.6	34.8	14.8	778	3.17	20.2	2.4	3.8	33	0.8	2.5	0.5	41	3.13	0.095	14
1481817	Soil	3.8	39.2	78.5	179	0.7	27.1	12.6	866	3.26	40.2	3.5	1.7	31	0.4	4.1	1.6	33	2.97	0.081	12
1481818	Soil	2.1	20.7	61.0	145	0.4	23.7	12.6	1515	3.85	18.2	1.7	2.3	19	0.3	2.2	0.6	44	0.36	0.067	16
1481821	Soil	4.9	49.0	95.8	155	1.4	25.1	13.5	838	3.70	67.7	3.1	5.4	64	0.2	8.1	1.6	41	0.31	0.126	15
1481823	Soil	3.5	47.3	67.4	190	0.9	30.0	12.3	1211	3.50	29.7	2.3	4.9	28	0.4	3.8	0.9	40	0.56	0.079	18
1481824	Soil	6.4	38.5	85.1	255	1.0	39.7	17.6	1804	4.51	47.8	12.8	4.1	33	1.1	4.5	1.0	40	1.38	0.103	19
1481825	Soil	1.6	22.2	94.1	203	0.4	26.1	12.7	1004	3.10	12.9	1.9	3.0	20	0.6	1.6	0.4	38	0.60	0.075	16
1481826	Soil	5.9	27.9	54.1	152	0.5	27.5	13.0	1318	2.70	50.7	2.9	1.2	58	0.5	3.9	1.3	24	9.11	0.051	8



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1480826	Soil	63	0.85	134	0.006	<1	2.09	0.007	0.04	<0.1	0.08	4.6	<0.1	<0.05	6	<0.5	<0.2
1480827	Soil	48	0.79	118	0.003	<1	2.66	0.005	0.04	<0.1	0.06	3.9	<0.1	<0.05	8	<0.5	<0.2
1480828	Soil	60	0.89	126	0.006	<1	2.64	0.006	0.04	<0.1	0.09	5.1	<0.1	<0.05	7	<0.5	<0.2
1480829	Soil	18	0.26	80	0.009	<1	0.84	0.004	0.05	<0.1	0.06	2.6	<0.1	<0.05	2	<0.5	<0.2
1480830	Soil	66	0.56	125	0.029	<1	1.53	0.007	0.05	0.3	0.15	6.4	<0.1	<0.05	4	<0.5	<0.2
1480831	Soil	27	0.35	51	0.041	<1	1.42	0.005	0.04	0.2	0.07	2.0	<0.1	<0.05	6	<0.5	<0.2
1480832	Soil	29	0.41	57	0.023	<1	1.84	0.006	0.05	0.1	0.05	2.1	<0.1	<0.05	6	0.6	<0.2
1480833	Soil	30	0.43	68	0.030	<1	1.48	0.006	0.06	0.1	0.07	2.2	<0.1	<0.05	4	<0.5	<0.2
1480834	Soil	14	0.19	50	0.003	<1	0.72	0.004	0.04	<0.1	0.06	2.4	<0.1	<0.05	2	<0.5	<0.2
1480835	Soil	106	1.50	366	0.140	<1	2.56	0.008	0.07	0.2	0.07	8.3	0.2	<0.05	9	<0.5	<0.2
1480836	Soil	117	2.09	304	0.201	<1	2.65	0.010	0.13	0.2	0.03	7.2	0.1	<0.05	10	<0.5	<0.2
1480837	Soil	100	1.31	116	0.178	<1	2.39	0.006	0.04	<0.1	0.04	4.2	<0.1	<0.05	8	<0.5	<0.2
1480838	Soil	127	1.41	177	0.085	1	2.50	0.007	0.07	<0.1	0.04	5.6	<0.1	<0.05	8	<0.5	<0.2
1480839	Soil	42	0.67	131	0.018	<1	1.66	0.007	0.05	<0.1	0.07	4.1	<0.1	<0.05	5	<0.5	<0.2
1480840	Soil	34	0.38	112	0.015	<1	1.18	0.006	0.04	0.1	0.09	3.4	<0.1	<0.05	3	<0.5	<0.2
1480841	Soil	28	0.42	123	0.027	<1	1.27	0.006	0.05	0.1	0.05	3.1	<0.1	<0.05	4	<0.5	<0.2
1480842	Soil	18	0.23	72	0.008	<1	0.93	0.005	0.04	<0.1	0.06	2.6	<0.1	<0.05	3	<0.5	<0.2
1480843	Soil	19	0.28	70	0.006	<1	0.94	0.006	0.04	<0.1	0.05	2.7	<0.1	<0.05	3	<0.5	<0.2
1480844	Soil	13	0.15	62	0.002	<1	0.70	0.007	0.04	<0.1	0.06	1.7	<0.1	<0.05	2	<0.5	<0.2
1480845	Soil	18	0.32	43	0.002	<1	0.92	0.005	0.04	<0.1	0.05	2.8	<0.1	<0.05	3	<0.5	<0.2
1481812	Soil	21	1.08	180	0.027	2	0.99	0.008	0.07	0.1	0.18	4.4	0.2	<0.05	2	0.5	<0.2
1481814	Soil	22	1.76	150	0.028	1	0.92	0.009	0.07	0.1	0.18	4.1	0.2	<0.05	2	<0.5	<0.2
1481816	Soil	24	1.83	421	0.035	1	0.88	0.010	0.07	0.2	0.15	3.8	0.2	<0.05	3	0.5	<0.2
1481817	Soil	23	1.79	160	0.019	2	0.90	0.009	0.06	0.1	0.08	3.0	0.2	<0.05	2	0.9	<0.2
1481818	Soil	26	0.40	237	0.015	1	1.47	0.006	0.05	0.2	0.10	3.9	0.3	<0.05	4	<0.5	<0.2
1481821	Soil	25	0.33	311	0.020	2	0.93	0.007	0.12	0.2	0.26	3.6	0.7	0.13	4	0.9	0.3
1481823	Soil	25	0.53	181	0.029	1	1.02	0.007	0.08	0.2	0.17	4.4	0.2	<0.05	3	0.5	<0.2
1481824	Soil	31	0.97	210	0.031	1	1.31	0.008	0.08	0.1	0.07	4.4	0.5	<0.05	3	0.6	<0.2
1481825	Soil	22	0.49	181	0.026	<1	1.16	0.008	0.05	0.1	0.09	3.6	0.2	<0.05	3	<0.5	<0.2
1481826	Soil	18	4.94	134	0.017	2	0.62	0.011	0.04	0.1	0.08	2.4	0.4	<0.05	2	0.6	<0.2





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	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1481827	Soil	2.5	39.6	106.3	182	0.6	30.9	16.5	1195	3.02	23.3	4.7	2.2	36	0.7	3.2	0.7	32	3.01	0.075	12
1481828	Soil	19.3	53.7	75.3	257	1.6	31.3	18.0	2081	4.88	140.8	9.5	1.3	91	0.9	10.3	5.6	15	13.52	0.031	4
1481831	Soil	2.0	30.7	81.6	163	0.6	30.9	14.7	1349	3.41	14.5	4.6	3.0	27	0.6	1.8	0.4	35	1.09	0.115	17
1481832	Soil	3.4	42.1	104.5	220	0.8	33.9	17.0	1819	3.97	25.2	20.2	4.5	23	0.5	3.2	0.8	34	0.60	0.087	19
1481833	Soil	2.1	39.5	50.6	165	0.5	39.9	18.2	1503	3.95	15.7	8.3	4.4	28	0.5	1.9	0.6	41	1.24	0.099	20
1481834	Soil	6.8	40.4	104.9	278	0.6	45.6	17.0	1760	4.15	20.3	2.9	3.2	22	1.2	2.8	0.5	72	0.92	0.071	18
1481835	Soil	13.4	38.0	78.8	216	1.2	10.7	5.7	2042	2.99	216.5	5.3	<0.1	84	1.3	17.0	9.5	13	14.78	0.027	2
1481836	Soil	31.8	86.0	79.2	295	3.3	26.0	20.3	4577	6.69	298.8	9.6	0.1	90	1.5	16.8	13.4	12	12.34	0.015	3
1481837	Soil	13.3	32.8	58.9	232	1.0	27.2	16.2	2142	4.82	85.1	4.5	0.4	82	1.0	8.5	3.0	16	13.49	0.037	4
1481838	Soil	23.1	101.4	126.9	340	2.1	25.6	14.8	1495	6.31	188.5	7.9	1.1	86	1.2	21.1	2.3	19	12.27	0.051	5
1481839	Soil	18.2	170.9	114.8	337	3.2	25.2	14.5	2182	6.60	301.3	10.4	0.9	92	1.2	26.6	7.0	21	9.16	0.093	6
1481840	Soil	32.5	204.1	295.5	628	18.7	47.9	22.4	3882	9.53	621.6	284.3	1.3	55	2.4	56.5	122.8	54	6.64	0.081	8
1481841	Soil	3.5	34.0	107.7	296	0.7	33.8	17.7	1626	3.68	21.3	2.7	2.9	28	0.7	2.8	0.7	33	2.59	0.088	15
1481842	Soil	23.0	51.4	42.3	357	0.9	62.8	17.7	927	4.04	26.9	2.3	2.5	69	3.8	4.4	0.4	154	6.01	0.167	16
1481843	Soil	3.8	26.0	157.0	308	0.4	28.3	15.5	1239	3.46	17.0	1.8	2.8	15	0.5	2.3	0.5	43	0.32	0.069	15
1481844	Soil	60.2	360.9	169.9	902	5.7	24.9	38.2	6956	9.31	559.1	10.9	0.2	89	2.8	45.4	24.0	31	15.10	0.062	6
1481845	Soil	19.3	107.0	94.1	333	2.8	14.1	9.1	3170	4.77	354.8	14.2	0.1	92	1.1	16.3	15.1	15	15.78	0.025	3
1481846	Soil	28.2	113.3	108.0	408	3.0	16.3	12.3	4631	5.50	462.1	8.0	0.2	87	1.7	26.5	25.7	23	15.37	0.037	4
1481847	Soil	22.1	82.3	108.5	360	2.2	23.0	14.0	2122	5.58	225.5	10.4	0.6	89	1.3	19.9	8.3	19	14.47	0.035	4
1481848	Soil	13.8	85.6	150.4	274	8.6	15.1	7.3	1804	4.82	337.5	105.2	0.3	62	1.0	40.9	61.8	21	14.65	0.040	3
1481849	Soil	40.0	218.4	293.1	664	39.1	55.6	29.5	3610	11.55	1098.2	696.3	1.2	38	2.5	108.5	223.1	66	1.83	0.123	11
1481850	Soil	18.0	45.3	42.0	301	0.7	55.1	14.9	750	3.81	25.0	2.0	2.6	70	2.2	2.5	0.5	145	5.15	0.163	16
1481851	Soil	19.7	40.7	39.7	312	0.8	49.2	11.8	686	2.91	26.1	3.8	2.3	72	2.7	3.0	0.4	129	7.46	0.143	13
1481852	Soil	3.9	35.1	55.8	247	0.6	37.0	13.9	1263	3.89	12.6	1.5	2.3	28	1.2	1.6	0.4	67	1.54	0.116	19
1481853	Soil	7.8	6.3	22.6	203	0.6	7.3	2.2	1385	1.03	43.7	2.2	<0.1	89	0.6	3.9	0.4	11	18.54	0.023	1
1481854	Soil	10.0	16.7	43.1	341	1.1	9.2	1.9	2015	1.52	89.6	3.0	<0.1	106	0.9	6.9	1.0	14	18.32	0.023	2
1481855	Soil	13.1	60.1	76.8	198	7.7	11.5	3.5	1457	3.73	572.3	131.6	0.3	71	0.7	32.7	33.5	22	17.00	0.026	3
1481856	Soil	14.1	38.4	26.6	174	0.8	16.6	11.5	1464	3.16	61.3	3.4	0.4	73	0.5	4.9	0.7	21	20.88	0.035	2
1481857	Soil	11.9	49.5	27.2	188	1.1	15.9	15.7	1499	3.43	81.3	8.2	0.4	68	0.7	5.9	1.1	20	19.32	0.051	3
1481858	Soil	26.6	141.9	67.8	370	1.7	41.0	18.4	1660	5.05	209.5	10.8	0.8	56	1.3	13.3	3.3	65	12.40	0.088	6



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**Project:** McKay Hill  
**Report Date:** August 21, 2018

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# CERTIFICATE OF ANALYSIS

# WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1481827	Soil	20	1.77	142	0.021	2	0.73	0.009	0.06	0.1	0.14	3.0	0.2	<0.05	2	<0.5	<0.2
1481828	Soil	7	7.14	263	0.007	2	0.30	0.010	0.04	<0.1	0.16	1.4	1.3	<0.05	<1	0.8	<0.2
1481831	Soil	26	0.81	179	0.023	1	1.22	0.009	0.05	0.2	0.08	4.3	0.1	<0.05	2	<0.5	<0.2
1481832	Soil	24	0.50	165	0.014	1	1.23	0.005	0.07	0.1	0.14	4.6	0.3	<0.05	2	<0.5	<0.2
1481833	Soil	34	1.00	149	0.033	2	1.06	0.007	0.09	0.1	0.09	4.7	0.2	<0.05	3	<0.5	<0.2
1481834	Soil	34	0.93	412	0.026	2	1.50	0.007	0.09	0.2	0.14	5.4	0.3	<0.05	4	<0.5	<0.2
1481835	Soil	5	8.14	219	0.004	<1	0.13	0.009	<0.01	0.1	0.08	0.4	0.3	<0.05	<1	1.1	<0.2
1481836	Soil	4	7.01	468	0.003	<1	0.08	0.007	<0.01	<0.1	0.08	0.5	1.5	<0.05	<1	1.6	<0.2
1481837	Soil	8	7.50	166	0.005	2	0.28	0.011	0.02	<0.1	0.10	1.6	1.1	<0.05	<1	0.9	<0.2
1481838	Soil	11	6.20	206	0.008	2	0.36	0.008	0.06	<0.1	0.14	2.1	2.5	<0.05	1	1.0	<0.2
1481839	Soil	11	4.78	294	0.006	3	0.41	0.008	0.05	0.1	0.18	1.8	1.6	<0.05	2	1.4	<0.2
1481840	Soil	24	3.79	486	0.014	2	0.85	0.005	0.06	0.2	0.51	3.0	2.9	<0.05	4	4.7	0.6
1481841	Soil	20	1.59	131	0.018	<1	0.92	0.007	0.07	<0.1	0.14	4.2	0.2	<0.05	2	<0.5	<0.2
1481842	Soil	63	5.01	422	0.141	1	1.90	0.008	0.13	0.2	0.13	5.1	0.4	<0.05	7	1.3	<0.2
1481843	Soil	21	0.44	228	0.015	<1	1.13	0.004	0.06	0.1	0.06	3.2	0.2	<0.05	3	<0.5	<0.2
1481844	Soil	11	7.77	761	0.006	<1	0.20	0.010	0.02	0.3	0.34	0.7	1.5	<0.05	<1	3.1	<0.2
1481845	Soil	5	9.09	280	0.004	<1	0.14	0.012	0.01	0.1	0.12	0.5	1.0	<0.05	<1	1.6	<0.2
1481846	Soil	7	8.53	515	0.007	<1	0.20	0.013	0.02	0.2	0.17	0.7	0.9	<0.05	<1	1.8	<0.2
1481847	Soil	8	7.85	218	0.007	1	0.29	0.010	0.02	0.1	0.14	1.4	2.3	<0.05	<1	1.2	<0.2
1481848	Soil	7	8.28	156	0.005	<1	0.27	0.011	0.02	0.2	0.25	0.9	1.1	<0.05	2	2.6	0.2
1481849	Soil	27	0.91	1024	0.018	2	0.99	0.006	0.09	0.6	1.09	2.8	3.5	0.17	10	18.3	0.8
1481850	Soil	57	4.19	505	0.146	1	1.77	0.010	0.10	0.2	0.10	4.7	0.4	<0.05	6	0.8	<0.2
1481851	Soil	44	4.77	321	0.119	<1	1.26	0.008	0.10	0.2	0.13	3.4	0.4	<0.05	5	1.5	<0.2
1481852	Soil	43	1.29	272	0.041	<1	1.46	0.007	0.08	0.1	0.12	4.7	0.2	<0.05	4	<0.5	<0.2
1481853	Soil	3	9.62	165	0.003	<1	0.09	0.010	<0.01	0.2	0.08	0.3	0.5	<0.05	<1	0.5	<0.2
1481854	Soil	4	9.72	280	0.003	<1	0.10	0.010	<0.01	0.1	0.13	0.4	0.6	<0.05	<1	0.8	<0.2
1481855	Soil	8	9.27	206	0.010	1	0.22	0.010	0.02	0.4	0.43	0.7	0.6	<0.05	3	3.9	0.3
1481856	Soil	6	10.42	141	0.008	2	0.24	0.012	0.02	<0.1	0.06	0.9	1.1	<0.05	1	0.7	<0.2
1481857	Soil	6	9.95	204	0.007	2	0.39	0.012	0.04	<0.1	0.07	1.1	1.3	<0.05	1	0.8	<0.2
1481858	Soil	19	6.64	1216	0.020	1	0.61	0.008	0.05	0.2	0.26	1.9	1.2	<0.05	3	2.6	<0.2



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**Project:** McKay Hill  
**Report Date:** August 21, 2018

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# CERTIFICATE OF ANALYSIS

WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1481859	Soil	15.6	38.5	38.8	265	0.7	42.9	12.8	614	3.21	23.7	2.1	1.9	66	2.0	3.0	0.4	147	7.14	0.138	14
1481860	Soil	24.9	53.3	44.5	352	1.0	58.8	13.6	714	3.42	29.1	2.9	2.7	60	2.9	4.2	0.4	181	5.42	0.144	16
1481861	Soil	8.8	16.6	58.9	153	0.4	21.5	7.7	833	2.01	23.1	1.5	0.9	58	0.5	2.6	0.6	28	11.22	0.059	7
1481862	Soil	17.4	8.1	30.1	130	0.3	20.8	2.9	844	0.83	24.8	0.6	<0.1	65	0.5	5.5	1.0	23	17.47	0.104	3
1481863	Soil	30.2	41.4	67.8	300	1.1	23.9	6.3	1186	1.99	86.9	3.1	0.5	67	1.3	13.0	1.8	40	15.59	0.084	5
1481864	Soil	24.5	67.8	41.9	174	2.6	16.6	4.6	1445	3.18	154.5	22.8	0.5	77	0.8	8.0	3.5	24	17.12	0.077	4
1481865	Soil	26.8	118.6	95.4	318	7.7	35.0	16.5	1815	5.48	545.8	80.9	1.1	77	0.9	26.9	35.3	66	13.87	0.099	6
1481866	Soil	17.5	129.1	62.4	304	1.0	32.1	16.1	1118	4.37	136.8	9.9	1.1	93	1.1	9.8	2.2	38	14.05	0.052	5
1481867	Soil	13.0	65.8	42.2	304	0.5	30.2	13.6	1126	3.97	92.8	6.8	0.6	71	1.2	5.1	0.6	33	15.25	0.037	4
1481868	Soil	30.5	58.4	61.6	484	1.2	67.8	13.0	837	3.09	39.6	2.5	2.6	63	3.3	6.4	0.5	219	6.44	0.134	14
1481869	Soil	18.1	30.1	108.2	367	0.8	33.7	10.2	1048	3.06	36.0	2.7	0.7	41	1.3	4.4	1.8	66	8.66	0.118	9
1481870	Soil	15.1	17.6	69.8	195	0.4	21.6	8.7	1023	2.08	25.1	2.6	0.7	64	0.6	3.3	0.6	32	13.16	0.068	6



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1481859	Soil	49	4.32	432	0.124	2	1.32	0.007	0.09	0.2	0.12	3.8	0.3	<0.05	5	0.8	<0.2
1481860	Soil	53	3.84	339	0.139	2	1.41	0.006	0.12	0.2	0.17	4.5	0.5	<0.05	5	1.6	<0.2
1481861	Soil	13	6.59	156	0.014	<1	0.46	0.009	0.03	0.1	0.05	2.0	0.4	<0.05	1	0.5	<0.2
1481862	Soil	6	8.22	211	0.003	3	0.25	0.010	0.02	0.9	0.05	0.3	0.5	<0.05	<1	0.6	<0.2
1481863	Soil	11	8.38	333	0.013	<1	0.41	0.010	0.03	0.3	0.15	1.3	0.9	<0.05	1	0.8	<0.2
1481864	Soil	6	8.73	388	0.007	<1	0.24	0.010	0.02	0.2	0.11	0.9	0.7	<0.05	2	0.7	<0.2
1481865	Soil	22	7.41	698	0.024	2	0.78	0.009	0.09	0.3	0.38	1.8	1.0	<0.05	4	3.5	<0.2
1481866	Soil	11	7.47	1585	0.013	<1	0.40	0.008	0.04	0.1	0.27	1.8	1.0	<0.05	2	1.8	<0.2
1481867	Soil	10	7.97	1250	0.011	<1	0.38	0.009	0.03	<0.1	0.13	1.7	0.7	<0.05	<1	0.8	<0.2
1481868	Soil	47	4.32	369	0.098	1	1.23	0.007	0.12	0.3	0.23	4.2	0.7	<0.05	5	1.2	<0.2
1481869	Soil	20	4.46	409	0.013	1	0.78	0.009	0.04	0.3	0.16	2.2	0.3	<0.05	2	1.0	<0.2
1481870	Soil	15	6.62	223	0.011	1	0.44	0.010	0.03	0.1	0.06	1.9	0.4	<0.05	1	0.7	<0.2



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# QUALITY CONTROL REPORT

WHI18000404.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1480763	Soil	0.8	77.3	34.8	114	0.2	118.6	38.3	1143	4.64	79.6	3.8	2.2	50	0.6	4.6	0.1	128	0.92	0.152	30
REP 1480763	QC	0.9	76.2	36.1	106	0.2	121.8	37.7	1097	4.63	78.6	4.6	2.3	49	0.7	4.8	0.1	116	0.86	0.147	31
1480802	Soil	1.0	27.4	182.2	217	0.1	33.5	15.7	607	3.16	24.4	5.9	1.7	19	0.9	5.7	0.2	42	0.25	0.110	20
REP 1480802	QC	1.2	28.9	178.3	223	0.1	33.1	16.4	565	3.25	24.2	2.4	1.6	19	0.8	5.5	0.2	46	0.27	0.102	19
1480838	Soil	1.2	36.2	24.9	132	<0.1	59.7	24.0	1153	5.10	26.6	1.5	1.5	45	0.6	1.6	0.3	95	0.56	0.097	23
REP 1480838	QC	1.1	38.4	25.1	127	<0.1	62.3	25.0	1204	5.38	27.2	<0.5	1.5	43	0.5	1.6	0.3	100	0.57	0.114	22
1481838	Soil	23.1	101.4	126.9	340	2.1	25.6	14.8	1495	6.31	188.5	7.9	1.1	86	1.2	21.1	2.3	19	12.27	0.051	5
REP 1481838	QC	22.4	98.6	121.4	331	2.0	25.8	14.5	1503	6.09	184.2	6.8	1.0	84	1.1	21.2	2.0	18	11.58	0.051	4
1481862	Soil	17.4	8.1	30.1	130	0.3	20.8	2.9	844	0.83	24.8	0.6	<0.1	65	0.5	5.5	1.0	23	17.47	0.104	3
REP 1481862	QC	17.6	8.0	29.9	127	0.3	19.4	3.0	918	0.91	25.4	0.7	<0.1	69	0.5	5.4	1.0	22	16.50	0.100	3
Reference Materials																					
STD DS11	Standard	14.5	153.1	133.5	344	1.7	76.6	14.0	1049	3.19	44.6	64.5	7.0	61	2.4	8.2	11.6	51	1.06	0.071	17
STD DS11	Standard	14.2	150.4	140.4	332	1.7	77.7	13.6	1034	3.19	43.7	117.7	7.7	58	2.1	6.8	9.7	48	1.05	0.070	17
STD DS11	Standard	15.4	149.7	141.7	337	1.7	78.8	14.3	1027	3.11	44.1	59.2	8.2	59	2.2	6.8	10.9	50	1.07	0.063	18
STD DS11	Standard	14.0	153.7	138.0	357	1.7	80.2	14.1	964	2.95	42.4	75.3	7.9	56	2.5	6.5	10.6	52	1.05	0.076	18
STD DS11	Standard	13.6	145.3	133.4	323	1.6	75.5	12.1	985	2.94	42.9	78.2	7.6	60	2.0	7.4	10.4	45	0.99	0.071	17
STD DS11	Standard	13.4	147.6	138.4	343	1.8	81.7	13.8	1015	3.08	41.6	83.9	7.6	59	2.4	7.9	11.2	49	1.07	0.070	17
STD DS11	Standard	14.0	148.1	134.7	344	1.7	78.4	13.8	1018	3.25	41.6	75.5	7.6	50	2.5	6.2	8.8	46	1.00	0.065	16
STD OXC129	Standard	1.3	26.8	6.1	41	<0.1	72.8	20.4	411	2.95	0.6	193.4	1.6	179	<0.1	<0.1	<0.1	49	0.66	0.093	11
STD OXC129	Standard	1.4	27.9	6.6	44	<0.1	80.9	21.9	429	3.27	0.8	198.1	2.0	210	<0.1	<0.1	<0.1	52	0.74	0.095	11
STD OXC129	Standard	1.3	27.5	6.4	46	<0.1	79.7	21.5	417	3.04	0.6	204.1	1.9	198	<0.1	<0.1	<0.1	55	0.73	0.102	11
STD OXC129	Standard	1.2	27.8	6.7	46	<0.1	82.0	21.3	432	3.30	0.8	193.6	2.0	194	<0.1	<0.1	<0.1	56	0.68	0.105	12
STD OXC129	Standard	1.0	26.8	6.1	42	<0.1	77.0	19.3	402	2.96	0.7	192.4	1.7	189	<0.1	<0.1	<0.1	49	0.70	0.095	12
STD OXC129	Standard	1.3	27.2	6.1	43	<0.1	83.5	20.2	417	3.07	0.8	197.1	1.8	179	<0.1	<0.1	<0.1	53	0.68	0.101	12
STD OXC129	Standard	1.1	26.8	6.4	42	<0.1	76.7	19.2	398	2.92	0.7	203.9	1.8	189	<0.1	<0.1	<0.1	51	0.66	0.097	11
STD OXC129 Expected		1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	12.5
STD DS11 Expected		14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.01	<0.001	<1



Bureau Veritas Commodities Canada Ltd.  
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Project: McKay Hill  
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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
1480763	Soil	216	1.33	185	0.040	1	1.99	0.009	0.06	0.3	0.08	12.3	0.1	<0.05	7	<0.5	<0.2
REP 1480763	QC	205	1.41	192	0.039	2	1.90	0.009	0.05	0.2	0.08	13.0	0.1	<0.05	7	<0.5	<0.2
1480802	Soil	32	0.50	63	0.027	<1	1.32	0.006	0.04	0.2	0.07	2.3	<0.1	<0.05	4	<0.5	<0.2
REP 1480802	QC	31	0.47	66	0.026	<1	1.23	0.005	0.05	0.2	0.06	2.3	<0.1	<0.05	3	<0.5	<0.2
1480838	Soil	127	1.41	177	0.085	1	2.50	0.007	0.07	<0.1	0.04	5.6	<0.1	<0.05	8	<0.5	<0.2
REP 1480838	QC	122	1.51	175	0.088	1	2.78	0.007	0.07	<0.1	0.04	5.1	0.1	<0.05	9	<0.5	<0.2
1481838	Soil	11	6.20	206	0.008	2	0.36	0.008	0.06	<0.1	0.14	2.1	2.5	<0.05	1	1.0	<0.2
REP 1481838	QC	11	6.43	199	0.007	1	0.38	0.008	0.06	<0.1	0.16	2.0	2.5	<0.05	1	0.9	<0.2
1481862	Soil	6	8.22	211	0.003	3	0.25	0.010	0.02	0.9	0.05	0.3	0.5	<0.05	<1	0.6	<0.2
REP 1481862	QC	6	9.33	230	0.004	3	0.25	0.012	0.02	1.0	0.07	0.4	0.6	<0.05	<1	0.7	<0.2
Reference Materials																	
STD DS11	Standard	60	0.84	349	0.083	7	1.07	0.071	0.40	2.8	0.25	3.4	5.1	0.29	5	2.0	4.7
STD DS11	Standard	59	0.84	351	0.081	6	1.08	0.072	0.40	3.3	0.26	3.2	5.1	0.23	5	2.0	4.7
STD DS11	Standard	60	0.89	370	0.083	6	1.23	0.084	0.38	3.1	0.25	3.2	4.7	0.25	5	2.3	5.0
STD DS11	Standard	58	0.84	367	0.078	6	1.22	0.071	0.40	3.1	0.27	3.2	4.9	0.26	5	1.8	4.7
STD DS11	Standard	56	0.80	337	0.085	6	1.10	0.079	0.38	2.9	0.30	3.5	5.1	0.27	5	2.6	4.4
STD DS11	Standard	60	0.79	322	0.085	6	1.04	0.064	0.40	3.1	0.24	3.1	4.8	0.26	5	2.2	4.4
STD DS11	Standard	56	0.85	377	0.074	6	1.19	0.076	0.39	3.0	0.28	3.0	5.1	0.22	5	1.7	4.5
STD OXC129	Standard	49	1.46	50	0.380	<1	1.40	0.563	0.34	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	54	1.60	50	0.412	1	1.57	0.632	0.38	0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	55	1.57	49	0.407	<1	1.63	0.625	0.36	0.1	<0.01	0.7	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	51	1.62	50	0.405	<1	1.72	0.631	0.35	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	49	1.53	49	0.377	1	1.53	0.627	0.33	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	54	1.54	46	0.401	<1	1.59	0.544	0.35	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	47	1.49	49	0.374	2	1.56	0.610	0.37	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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#904 - 409 Granville Street  
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Project: McKay Hill  
Report Date: August 21, 2018

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.6	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: McKay Hill  
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# QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



**Appendix III. Rock and Soil Descriptions & Data**

**Rocks**

Sample no	Sampler	location	Source	Easting	Northing	Description	Certificate	Weight (kg)
1480010	L.Blackburn	Grey Copper Hill	Outcrop	487495	7145674	HW of corridor; magnetite + tetra (?) + lim/MnO; "skarny" look; 158/40	WHI18000335	2
1480011	L.Blackburn	Grey Copper Hill	Outcrop	487495	7145674	Channel sample below 1480010; decreased magnetite (from above), reduced alteration, buff-colour ( decreased lim, MnO); decreased tetra (?); banded, silicified; last 0.3m MnO + tetra (?)	WHI18000335	1.43
1480012	L.Blackburn	Grey Copper Hill	Outcrop	487503	7145693	FW zone of mineralized dyke; Cu-oxide (Mal, az) + cpy + sphal; gossan ore zone	WHI18000335	2.22
1480013	L.Blackburn	Grey Copper Hill	Outcrop	487505	7145690	Continued Cu-oxide + cpy FW zone (as above sample); bleeds further below this	WHI18000335	1.31
1480252	G. Leroux	Grey Copper Hill	Outcrop, channel over 1m	487496	7145699	(qz>>sp>py>tetra>cp) qz-vein ~10cm thick, hosted in dioritic(?) dyke with an orientation of 080/40	WHI18000335	1.99
1480253	G. Leroux	Grey Copper Hill	Outcrop, channel over 1m	487496	7145700	~7cm thick qz vein, mineralized with coarse sp, crumbly py+cp and splotchy fine grained tetra(?)	WHI18000335	1.58

Sample #	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Al (%)	As (ppm)	Au (ppb)	B (ppm)	Ba (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	K (%)
1480010	0.00	1.8	0.03	0.08	0.06	1.8	0.2	6	-0.5	2	272	3.7	1.46	1.2	50.6	18	330.2	32.79	-1	0.18
1480011	0.00	0.9	0.05	0.06	0.06	0.9	0.29	10	-0.5	-1	125	1.9	0.6	1.2	45.5	8	520.9	25.95	1	0.24
1480012	0.02	98	6.83	0.03	0.07	>100	0.26	52	23.3	-1	58	2.4	0.26	2.4	84.7	11	10000	14.37	-1	0.18
1480013	0.00	1.9	0.46	0.01	0.06	1.9	0.6	14	-0.5	-1	201	0.3	2.38	3.7	56.3	5	4627.9	6.57	1	0.39
1480252	0.03	101	2.16	0.30	0.06	>100	0.04	270	34.3	1	16	6.3	1.4	3.1	56.1	4	10000	16.81	-1	0.02
1480253	0.01	15.4	0.76	0.02	0.02	15.4	0.03	9	5.4	-1	24	0.4	3.83	1.1	18.5	4	7598.1	6.89	-1	0.02
Sample no	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (%)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Se (ppm)	Te (ppm)	Th (ppm)	Sr (ppm)	Ti (%)	V (ppm)	W (ppm)	Zn (ppm)	Hg (ppm)
1480010	6	1.16	8442	4.3	0.003	91.9	0.027	812.2	0.15	2.2	4.5	-0.5	-0.2	40.9	251	0.002	247	100	573	-0.01
1480011	9	0.36	4455	9.7	0.003	69.4	0.048	584.4	-0.05	2.5	5.3	-0.5	-0.2	70.9	66	0.001	409	30	568	0.03
1480012	24	0.35	2138	0.4	0.004	61.6	0.141	212.5	2.6	2.1	3.5	1.6	-0.2	57	55	0.002	37	1.7	691	4.72
1480013	21	1.66	7714	0.8	0.006	94.6	0.043	55.6	0.12	1.9	7.3	-0.5	-0.2	12.7	34	0.001	36	2.6	612	0.13
1480252	-1	0.7	1301	1.9	0.002	241.5	0.022	3108.8	0.77	156.1	3.1	13.7	0.4	11.1	63	-0.001	36	0.3	582	2.57
1480253	-1	2.35	4404	0.6	0.005	39.9	0.008	231	0.46	108.4	4.1	-0.5	-0.2	11.3	126	-0.001	40	0.7	177	0.41

## Soils

Sample #	Easting	Northing	Org_pct	Frag_pct	Depth_cm	Horizon	Colour	Quality	Certificate	Ag_Equiv	Au_Best_ppm
1481776	487614	7145995	0	20	40	BC	BRN	EXC	WHI18000334	2.1006	0.004
1481777	487655	7146023	0	30	40	C	YBR	EXC	WHI18000334	0.6208	0.00025
1481778	487697	7146051	10	15	30	B	BRN	GOOD	WHI18000334	3.6092	0.0024
1481781	487821	7146136							WHI18000334	5.2326	0.0016
1481782	487863	7146164	5	20	40	BC		GOOD	WHI18000334	3.3722	0.0029
1481783	487642	7145954	10	20	60	BC	BRN	GOOD	WHI18000334	1.7189	0.002
1481785	487725	7146010	30	30	15	AB	BRN	EXC	WHI18000334	1.7625	0.00025
1481787	487808	7146066	10	30	30	BC	BRN	EXC	WHI18000334	1.8502	0.0011
1481788	487849	7146094	10	25	50	BC	BRN	EXC	WHI18000334	5.2009	0.0034
1481789	487891	7146122	10	20	30	BC	BRN	GOOD	WHI18000334	4.9129	0.0028
1481790	487711	7145941	0	20	80	C	BRN	EXC	WHI18000334	3.1013	0.0024
1481791	487753	7145969	15	20	40	BC	BRN	GOOD	WHI18000334	2.5098	0.0019
1481793	487836	7146025	10	15	30	B	BRN	GOOD	WHI18000334	3.6637	0.0018
1481794	487877	7146053	0	20	40	BC	BRN	GOOD	WHI18000334	4.7821	0.0038
1481795	487919	7146081	10	20	35	BC	BRN	GOOD	WHI18000334	2.5731	0.0036
1481796	487781	7145927	0	20	30	BC	LBR	EXC	WHI18000334	2.7457	0.0029
1481797	487822	7145955	0	10	35	BC	BRN	GOOD	WHI18000334	2.8761	0.0017
1481798	487864	7145983	10	10	40	BC	BRN	GOOD	WHI18000334	1.1976	0.0025
1481799	487905	7146011	20	10	40	AB	BRN	POOR	WHI18000334	2.4108	0.003
1481800	487947	7146039	0	30	80	C	LBR	EXC	WHI18000334	2.0539	0.0018
1481801	487726	7145830	30	10	40	AB	BRN	POOR	WHI18000334	3.358	0.0014
1481802	487768	7145858	5	30	40	BC	BRN	GOOD	WHI18000334	3.015	0.0029
1481803	487809	7145886	15	20	50	B	BRN	GOOD	WHI18000334	3.2739	0.0023
1481804	487850	7145914	5	30	60	BC	BRN	EXC	WHI18000334	3.2385	0.0044
1481805	487892	7145942	5	15	30	BC	BRN	GOOD	WHI18000334	3.0625	0.0029
1481806	487933	7145970	0	30	60	BC	YBR	EXC	WHI18000334	3.5528	0.003
1481807	487975	7145998	30	5	30	AB	BLK	POOR	WHI18000334	2.2414	0.0083
1481808	487671	7145732							WHI18000334	1.9005	0.0035
1481809	487713	7145760							WHI18000334	5.1655	0.017
1481810	487754	7145788							WHI18000334	1.4831	0.00025
1481812	487837	7145844	0	20	30	BC	BRN	GOOD	WHI18000404	3.6534	0.0119
1481814	487920	7145900	0	20	20	BC	BRN	GOOD	WHI18000404	3.2341	0.0043
1481816	488003	7145956	0	20	30	BC	BRN	GOOD	WHI18000404	2.7716	0.0024
1481817	487699	7145691	0	20	30	BC	BRN	GOOD	WHI18000404	2.7644	0.0035
1481818	487741	7145719	0	20	30	BC	BRN	GOOD	WHI18000404	1.8411	0.0017
1481821	487865	7145803	0	20	20	BC	BRN	GOOD	WHI18000404	3.5016	0.0031
1481823	487948	7145859	0	20	40	BC	BRN	GOOD	WHI18000404	2.9727	0.0023
1481824	487989	7145887	0	20	40	BC	BRN	GOOD	WHI18000404	4.221	0.0128
1481825	488031	7145915	0	20	30	BC	BRN	GOOD	WHI18000404	2.3412	0.0019
1481826	487727	7145650	0	20	30	BC	BRN	GOOD	WHI18000404	2.1247	0.0029

1481827	487769	7145678	0	20	20	BC	LBR	GOOD	WHI18000404	2.91	0.0047
1481828	487810	7145706	0	20	20	BC	BRN	GOOD	WHI18000404	4.7068	0.0095
1481831	487934	7145790	0	20	40	BC	BRN	GOOD	WHI18000404	2.5791	0.0046
1481832	487976	7145818	0	20	30	BC	BRN	GOOD	WHI18000404	4.5455	0.0202
1481833	488017	7145846	0	20	30	BC	BRN	GOOD	WHI18000404	2.7364	0.0083
1481834	488059	7145874	0	20	30	BC	BRN	GOOD	WHI18000404	3.2865	0.0029
1481835	487755	7145608	0	30	40	BC	LBR	GOOD	WHI18000404	3.5905	0.0053
1481836	487797	7145636	0	20	30	BC	BRN	GOOD	WHI18000404	7.0172	0.0096
1481837	487838	7145664	0	20	30	BC	BRN	GOOD	WHI18000404	3.2586	0.0045
1481838	487880	7145692	0	20	30	BC	BRN	GOOD	WHI18000404	6.3318	0.0079
1481839	487921	7145720	0	20	30	BC	BRN	GOOD	WHI18000404	8.3731	0.0104
1481840	487962	7145748	0	10	30	BC	BRN	GOOD	WHI18000404	48.0736	0.2843
1481841	488004	7145776	0	10	30	BC	LBR	GOOD	WHI18000404	3.405	0.0027
1481842	488045	7145804	0	10	40	BC	LBR	GOOD	WHI18000404	3.7973	0.0023
1481843	488087	7145832	0	10	30	BC	BRN	GOOD	WHI18000404	3.2371	0.0018
1481844	487783	7145567	0	20	40	BC	BRN	GOOD	WHI18000404	16.4379	0.0109
1481845	487825	7145595	0	20	40	BC	BRN	GOOD	WHI18000404	7.3979	0.0142
1481846	487866	7145623	0	20	40	BC	BRN	GOOD	WHI18000404	7.6551	0.008
1481847	487908	7145651	0	30	40	BC	BRN	GOOD	WHI18000404	6.4224	0.0104
1481848	487949	7145679	0	30	40	BC	BRN	GOOD	WHI18000404	20.0044	0.1052
1481849	487990	7145707	0	10	20	BC	BRN	GOOD	WHI18000404	101.0111	0.6963
1481850	488032	7145735	0	10	20	BC	LBR	GOOD	WHI18000404	3.2006	0.002
1481851	488073	7145763	0	10	20	BC	LBR	GOOD	WHI18000404	3.4351	0.0038
1481852	488115	7145791	0	10	30	BC	BRN	GOOD	WHI18000404	2.7171	0.0015
1481853	487811	7145525	0	25	45	BC	BRN	EXC	WHI18000404	2.0401	0.0022
1481854	487853	7145553	5	20	40	BC	BRN	GOOD	WHI18000404	3.5611	0.003
1481855	487894	7145581	0	30	35	BC	BRN	GOOD	WHI18000404	20.1123	0.1316
1481856	487936	7145609	0	20	50	BC	BRN	EXC	WHI18000404	2.5757	0.0034
1481857	487977	7145637	0	20	40	BC	BRN	GOOD	WHI18000404	3.4593	0.0082
1481858	488018	7145665	0	30	35	BC	BRN	GOOD	WHI18000404	6.5178	0.0108
1481859	488060	7145693	5	20	50	BC	LBR	EXC	WHI18000404	2.9203	0.0021
1481860	488101	7145721	10	25	55	BC	LBR	GOOD	WHI18000404	3.9502	0.0029
1481861	488143	7145749	10	25	60	BC	BRN	EXC	WHI18000404	1.8101	0.0015
1481862	487839	7145484	0	20	20	B	BRN	POOR	WHI18000404	1.2806	0.0006
1481863	487881	7145512	0	25	60	Bc	BRN	EXC	WHI18000404	3.7568	0.0031
1481864	487922	7145540	0	30	30	Bc	BRN	EXC	WHI18000404	6.3099	0.0228
1481865	487964	7145568	0	30	40	Bc	BRN	GOOD	WHI18000404	17.5713	0.0809
1481866	488005	7145596	0	25	30	Bc	BRN	EXC	WHI18000404	5.2176	0.0099
1481867	488046	7145624	0	20	30	Bc	BRN	GOOD	WHI18000404	3.6342	0.0068
1481868	488088	7145652	0	10	30	B	LBR	GOOD	WHI18000404	4.9668	0.0025
1481869	488129	7145680	0	20	50	Bc	BRN	EXC	WHI18000404	3.8418	0.0027
1481870	488171	7145708	0	20	60	B	BRN	GOOD	WHI18000404	2.1842	0.0026

Sample #2	Ag_Best_ppm	Mo_Best_pct	Cu_Best_pct	Pb_Best_pct	Zn_Best_pct	Ag_ppm	Pb_ppm	Zn_ppm	Mo_ppm	Cu_ppm	Ni_ppm
1481776	0.5	0.00019	0.00352	0.00466	0.0122	0.5	46.6	122	1.9	35.2	14.9
1481777	0.2	0.00012	0.00088	0.00313	0.0028	0.2	31.3	28	1.2	8.8	5
1481778	2	0.00011	0.00446	0.00344	0.0137	2	34.4	137	1.1	44.6	27
1481781	0.9	0.00018	0.003	0.01664	0.0573	0.9	166.4	573	1.8	30	24.3
1481782	0.4	0.00019	0.00227	0.00734	0.0398	0.4	73.4	398	1.9	22.7	18.8
1481783	0.2	0.00019	0.00158	0.00507	0.0175	0.2	50.7	175	1.9	15.8	15.6
1481785	0.4	0.00017	0.00191	0.00394	0.0174	0.4	39.4	174	1.7	19.1	14
1481787	0.3	0.00014	0.0014	0.01006	0.0154	0.3	100.6	154	1.4	14	11.7
1481788	1.1	0.0002	0.00438	0.01836	0.0458	1.1	183.6	458	2	43.8	26.7
1481789	0.7	0.00017	0.00323	0.01006	0.0586	0.7	100.6	586	1.7	32.3	19.4
1481790	0.7	0.0003	0.00369	0.0066	0.0274	0.7	66	274	3	36.9	30.5
1481791	0.6	0.00026	0.0036	0.007	0.0188	0.6	70	188	2.6	36	19
1481793	1.2	0.00021	0.00535	0.00795	0.0246	1.2	79.5	246	2.1	53.5	26.4
1481794	0.6	0.00021	0.00305	0.01104	0.0561	0.6	110.4	561	2.1	30.5	24.3
1481795	0.6	0.0004	0.0035	0.00998	0.0151	0.6	99.8	151	4	35	27.4
1481796	0.7	0.00023	0.00329	0.0065	0.021	0.7	65	210	2.3	32.9	28.3
1481797	0.7	0.00024	0.00368	0.00687	0.024	0.7	68.7	240	2.4	36.8	25.8
1481798	0.1	0.00028	0.00108	0.0036	0.0113	0.1	36	113	2.8	10.8	9.3
1481799	0.7	0.00017	0.00446	0.00426	0.014	0.7	42.6	140	1.7	44.6	19.2
1481800	0.3	0.00017	0.00385	0.00596	0.0164	0.3	59.6	164	1.7	38.5	36.2
1481801	1.3	0.0014	0.00824	0.00778	0.0114	1.3	77.8	114	14	82.4	18.6
1481802	0.9	0.00029	0.00453	0.00737	0.0188	0.9	73.7	188	2.9	45.3	32.6
1481803	0.9	0.00029	0.00802	0.00604	0.018	0.9	60.4	180	2.9	80.2	29
1481804	0.7	0.00025	0.00528	0.00631	0.0238	0.7	63.1	238	2.5	52.8	29.8
1481805	0.8	0.0002	0.00494	0.00561	0.0222	0.8	56.1	222	2	49.4	26.1
1481806	0.9	0.00103	0.00501	0.00639	0.0285	0.9	63.9	285	10.3	50.1	47.5
1481807	0.4	0.00018	0.00231	0.00419	0.0135	0.4	41.9	135	1.8	23.1	27.7
1481808	0.9	0.00087	0.00183	0.00562	0.0046	0.9	56.2	46	8.7	18.3	8.6
1481809	1.5	0.00079	0.0031	0.02956	0.0108	1.5	295.6	108	7.9	31	23.9
1481810	0.5	0.00022	0.00169	0.00417	0.0106	0.5	41.7	106	2.2	16.9	22.3
1481812	0.7	0.00025	0.00475	0.00719	0.021	0.7	71.9	210	2.5	47.5	31.5
1481814	0.8	0.00029	0.00503	0.00625	0.0226	0.8	62.5	226	2.9	50.3	29.5
1481816	0.6	0.00031	0.00426	0.00678	0.0217	0.6	67.8	217	3.1	42.6	34.8
1481817	0.7	0.00038	0.00392	0.00785	0.0179	0.7	78.5	179	3.8	39.2	27.1
1481818	0.4	0.00021	0.00207	0.0061	0.0145	0.4	61	145	2.1	20.7	23.7
1481821	1.4	0.00049	0.0049	0.00958	0.0155	1.4	95.8	155	4.9	49	25.1
1481823	0.9	0.00035	0.00473	0.00674	0.019	0.9	67.4	190	3.5	47.3	30
1481824	1	0.00064	0.00385	0.00851	0.0255	1	85.1	255	6.4	38.5	39.7
1481825	0.4	0.00016	0.00222	0.00941	0.0203	0.4	94.1	203	1.6	22.2	26.1
1481826	0.5	0.00059	0.00279	0.00541	0.0152	0.5	54.1	152	5.9	27.9	27.5

1481827	0.6	0.00025	0.00396	0.01063	0.0182	0.6	106.3	182	2.5	39.6	30.9
1481828	1.6	0.00193	0.00537	0.00753	0.0257	1.6	75.3	257	19.3	53.7	31.3
1481831	0.6	0.0002	0.00307	0.00816	0.0163	0.6	81.6	163	2	30.7	30.9
1481832	0.8	0.00034	0.00421	0.01045	0.022	0.8	104.5	220	3.4	42.1	33.9
1481833	0.5	0.00021	0.00395	0.00506	0.0165	0.5	50.6	165	2.1	39.5	39.9
1481834	0.6	0.00068	0.00404	0.01049	0.0278	0.6	104.9	278	6.8	40.4	45.6
1481835	1.2	0.00134	0.0038	0.00788	0.0216	1.2	78.8	216	13.4	38	10.7
1481836	3.3	0.00318	0.0086	0.00792	0.0295	3.3	79.2	295	31.8	86	26
1481837	1	0.00133	0.00328	0.00589	0.0232	1	58.9	232	13.3	32.8	27.2
1481838	2.1	0.00231	0.01014	0.01269	0.034	2.1	126.9	340	23.1	101.4	25.6
1481839	3.2	0.00182	0.01709	0.01148	0.0337	3.2	114.8	337	18.2	170.9	25.2
1481840	18.7	0.00325	0.02041	0.02955	0.0628	18.7	295.5	628	32.5	204.1	47.9
1481841	0.7	0.00035	0.0034	0.01077	0.0296	0.7	107.7	296	3.5	34	33.8
1481842	0.9	0.0023	0.00514	0.00423	0.0357	0.9	42.3	357	23	51.4	62.8
1481843	0.4	0.00038	0.0026	0.0157	0.0308	0.4	157	308	3.8	26	28.3
1481844	5.7	0.00602	0.03609	0.01699	0.0902	5.7	169.9	902	60.2	360.9	24.9
1481845	2.8	0.00193	0.0107	0.00941	0.0333	2.8	94.1	333	19.3	107	14.1
1481846	3	0.00282	0.01133	0.0108	0.0408	3	108	408	28.2	113.3	16.3
1481847	2.2	0.00221	0.00823	0.01085	0.036	2.2	108.5	360	22.1	82.3	23
1481848	8.6	0.00138	0.00856	0.01504	0.0274	8.6	150.4	274	13.8	85.6	15.1
1481849	39.1	0.004	0.02184	0.02931	0.0664	39.1	293.1	664	40	218.4	55.6
1481850	0.7	0.0018	0.00453	0.0042	0.0301	0.7	42	301	18	45.3	55.1
1481851	0.8	0.00197	0.00407	0.00397	0.0312	0.8	39.7	312	19.7	40.7	49.2
1481852	0.6	0.00039	0.00351	0.00558	0.0247	0.6	55.8	247	3.9	35.1	37
1481853	0.6	0.00078	0.00063	0.00226	0.0203	0.6	22.6	203	7.8	6.3	7.3
1481854	1.1	0.001	0.00167	0.00431	0.0341	1.1	43.1	341	10	16.7	9.2
1481855	7.7	0.00131	0.00601	0.00768	0.0198	7.7	76.8	198	13.1	60.1	11.5
1481856	0.8	0.00141	0.00384	0.00266	0.0174	0.8	26.6	174	14.1	38.4	16.6
1481857	1.1	0.00119	0.00495	0.00272	0.0188	1.1	27.2	188	11.9	49.5	15.9
1481858	1.7	0.00266	0.01419	0.00678	0.037	1.7	67.8	370	26.6	141.9	41
1481859	0.7	0.00156	0.00385	0.00388	0.0265	0.7	38.8	265	15.6	38.5	42.9
1481860	1	0.00249	0.00533	0.00445	0.0352	1	44.5	352	24.9	53.3	58.8
1481861	0.4	0.00088	0.00166	0.00589	0.0153	0.4	58.9	153	8.8	16.6	21.5
1481862	0.3	0.00174	0.00081	0.00301	0.013	0.3	30.1	130	17.4	8.1	20.8
1481863	1.1	0.00302	0.00414	0.00678	0.03	1.1	67.8	300	30.2	41.4	23.9
1481864	2.6	0.00245	0.00678	0.00419	0.0174	2.6	41.9	174	24.5	67.8	16.6
1481865	7.7	0.00268	0.01186	0.00954	0.0318	7.7	95.4	318	26.8	118.6	35
1481866	1	0.00175	0.01291	0.00624	0.0304	1	62.4	304	17.5	129.1	32.1
1481867	0.5	0.0013	0.00658	0.00422	0.0304	0.5	42.2	304	13	65.8	30.2
1481868	1.2	0.00305	0.00584	0.00616	0.0484	1.2	61.6	484	30.5	58.4	67.8
1481869	0.8	0.00181	0.00301	0.01082	0.0367	0.8	108.2	367	18.1	30.1	33.7
1481870	0.4	0.00151	0.00176	0.00698	0.0195	0.4	69.8	195	15.1	17.6	21.6

Sample #3	Co_ppm	Mn_ppm	As_ppm	Fe_pct	Th_ppm	Cr_ppm	Al_pct	Cd_ppm	Ba_ppm	Bi_ppm	Ca_pct
1481776	8.1	329	25.4	3.08	2.7	22	1.25	0.2	72	0.7	0.06
1481777	2.1	90	21.1	1.31	1.4	10	0.55	-0.1	37	0.9	0.03
1481778	13.6	842	17.1	2.97	2.1	24	1.44	0.3	101	0.5	0.15
1481781	14.5	2171	14.2	3.63	2.3	14	0.74	1.2	103	0.5	0.98
1481782	10.9	854	15.2	2.99	2.3	16	0.82	0.5	118	0.6	0.35
1481783	9.4	815	17.9	2.84	2.9	18	1.13	0.3	126	0.5	0.09
1481785	7.9	1479	11.6	2.47	0.6	10	0.58	0.5	110	0.4	0.46
1481787	7.9	1293	8	2.1	0.5	9	0.52	0.6	81	0.4	0.83
1481788	15.9	1353	19.3	3.25	3.1	14	0.62	0.8	109	0.7	0.97
1481789	11.7	997	12.7	2.7	1.5	16	0.8	1.1	128	0.6	0.97
1481790	14.9	1566	23.7	3.2	3.3	18	1.05	0.8	200	0.8	0.23
1481791	11.8	1011	20.2	2.61	1.9	12	0.64	0.4	106	0.9	0.1
1481793	14.6	1771	16.9	3.15	2.2	16	0.8	0.5	144	0.7	0.72
1481794	12.3	1449	16.2	3.39	2.2	18	0.96	1.4	132	0.7	0.44
1481795	13.6	888	23.5	2.83	3.6	18	0.68	0.6	699	0.6	3.18
1481796	13.6	1867	19.7	3.9	2.3	23	1.19	0.4	220	0.8	0.3
1481797	14.1	2022	17.4	3.67	2	18	0.89	0.4	163	0.6	0.78
1481798	6.6	905	11.6	1.93	0.9	13	0.7	0.2	106	0.6	0.14
1481799	10.1	949	10.4	2.13	0.7	17	0.86	0.1	142	0.5	1.43
1481800	15.6	839	9.1	3.01	4.9	33	0.84	0.4	169	0.4	3.76
1481801	8.3	462	52.2	2.76	1.3	22	1.08	-0.1	274	1.1	0.52
1481802	15.3	1715	23.8	3.39	3.4	20	1	0.4	231	0.7	0.76
1481803	13.4	1083	48.9	3.18	5	22	0.98	0.4	203	0.8	0.36
1481804	14.8	1128	22.4	3.5	4.4	20	0.81	0.4	133	0.7	0.61
1481805	13	1304	15.3	3.09	1.8	21	0.86	0.4	145	0.5	0.92
1481806	15.6	1074	43.1	3.86	2.6	42	1.4	1.1	749	0.9	2.37
1481807	11.8	1616	12.2	2.82	0.8	17	0.49	0.7	292	0.4	3.26
1481808	3.3	260	30	1.49	7.7	8	0.28	0.1	101	1.1	0.66
1481809	9.5	478	65.1	3.45	3.7	24	1.16	0.3	273	1.4	0.2
1481810	10.2	762	14.1	3.27	2.5	27	1.67	0.1	200	0.5	0.27
1481812	15.4	1832	19.6	3.71	4.1	21	0.99	0.6	180	0.6	1.56
1481814	13.4	883	24.3	3.34	3.9	22	0.92	0.4	150	0.7	2.64
1481816	14.8	778	20.2	3.17	3.8	24	0.88	0.8	421	0.5	3.13
1481817	12.6	866	40.2	3.26	1.7	23	0.9	0.4	160	1.6	2.97
1481818	12.6	1515	18.2	3.85	2.3	26	1.47	0.3	237	0.6	0.36
1481821	13.5	838	67.7	3.7	5.4	25	0.93	0.2	311	1.6	0.31
1481823	12.3	1211	29.7	3.5	4.9	25	1.02	0.4	181	0.9	0.56
1481824	17.6	1804	47.8	4.51	4.1	31	1.31	1.1	210	1	1.38
1481825	12.7	1004	12.9	3.1	3	22	1.16	0.6	181	0.4	0.6
1481826	13	1318	50.7	2.7	1.2	18	0.62	0.5	134	1.3	9.11



1481827	16.5	1195	23.3	3.02	2.2	20	0.73	0.7	142	0.7	3.01
1481828	18	2081	140.8	4.88	1.3	7	0.3	0.9	263	5.6	13.52
1481831	14.7	1349	14.5	3.41	3	26	1.22	0.6	179	0.4	1.09
1481832	17	1819	25.2	3.97	4.5	24	1.23	0.5	165	0.8	0.6
1481833	18.2	1503	15.7	3.95	4.4	34	1.06	0.5	149	0.6	1.24
1481834	17	1760	20.3	4.15	3.2	34	1.5	1.2	412	0.5	0.92
1481835	5.7	2042	216.5	2.99	-0.1	5	0.13	1.3	219	9.5	14.78
1481836	20.3	4577	298.8	6.69	0.1	4	0.08	1.5	468	13.4	12.34
1481837	16.2	2142	85.1	4.82	0.4	8	0.28	1	166	3	13.49
1481838	14.8	1495	188.5	6.31	1.1	11	0.36	1.2	206	2.3	12.27
1481839	14.5	2182	301.3	6.6	0.9	11	0.41	1.2	294	7	9.16
1481840	22.4	3882	621.6	9.53	1.3	24	0.85	2.4	486	122.8	6.64
1481841	17.7	1626	21.3	3.68	2.9	20	0.92	0.7	131	0.7	2.59
1481842	17.7	927	26.9	4.04	2.5	63	1.9	3.8	422	0.4	6.01
1481843	15.5	1239	17	3.46	2.8	21	1.13	0.5	228	0.5	0.32
1481844	38.2	6956	559.1	9.31	0.2	11	0.2	2.8	761	24	15.1
1481845	9.1	3170	354.8	4.77	0.1	5	0.14	1.1	280	15.1	15.78
1481846	12.3	4631	462.1	5.5	0.2	7	0.2	1.7	515	25.7	15.37
1481847	14	2122	225.5	5.58	0.6	8	0.29	1.3	218	8.3	14.47
1481848	7.3	1804	337.5	4.82	0.3	7	0.27	1	156	61.8	14.65
1481849	29.5	3610	1098.2	11.55	1.2	27	0.99	2.5	1024	223.1	1.83
1481850	14.9	750	25	3.81	2.6	57	1.77	2.2	505	0.5	5.15
1481851	11.8	686	26.1	2.91	2.3	44	1.26	2.7	321	0.4	7.46
1481852	13.9	1263	12.6	3.89	2.3	43	1.46	1.2	272	0.4	1.54
1481853	2.2	1385	43.7	1.03	-0.1	3	0.09	0.6	165	0.4	18.54
1481854	1.9	2015	89.6	1.52	-0.1	4	0.1	0.9	280	1	18.32
1481855	3.5	1457	572.3	3.73	0.3	8	0.22	0.7	206	33.5	17
1481856	11.5	1464	61.3	3.16	0.4	6	0.24	0.5	141	0.7	20.88
1481857	15.7	1499	81.3	3.43	0.4	6	0.39	0.7	204	1.1	19.32
1481858	18.4	1660	209.5	5.05	0.8	19	0.61	1.3	1216	3.3	12.4
1481859	12.8	614	23.7	3.21	1.9	49	1.32	2	432	0.4	7.14
1481860	13.6	714	29.1	3.42	2.7	53	1.41	2.9	339	0.4	5.42
1481861	7.7	833	23.1	2.01	0.9	13	0.46	0.5	156	0.6	11.22
1481862	2.9	844	24.8	0.83	-0.1	6	0.25	0.5	211	1	17.47
1481863	6.3	1186	86.9	1.99	0.5	11	0.41	1.3	333	1.8	15.59
1481864	4.6	1445	154.5	3.18	0.5	6	0.24	0.8	388	3.5	17.12
1481865	16.5	1815	545.8	5.48	1.1	22	0.78	0.9	698	35.3	13.87
1481866	16.1	1118	136.8	4.37	1.1	11	0.4	1.1	1585	2.2	14.05
1481867	13.6	1126	92.8	3.97	0.6	10	0.38	1.2	1250	0.6	15.25
1481868	13	837	39.6	3.09	2.6	47	1.23	3.3	369	0.5	6.44
1481869	10.2	1048	36	3.06	0.7	20	0.78	1.3	409	1.8	8.66
1481870	8.7	1023	25.1	2.08	0.7	15	0.44	0.6	223	0.6	13.16

Sample #5	Sr_ppm	V_ppm	P_pct	La_ppm	Mg_pct	Na_pct	B_ppm	Ti_pct	K_pct	W_ppm	Hg_ppm	S_pct
1481776	12	48	0.031	14	0.26	0.004	-1	0.025	0.05	0.1	0.1	-0.05
1481777	17	38	0.038	19	0.08	0.003	-1	0.025	0.04	0.1	0.03	-0.05
1481778	14	40	0.076	15	0.37	0.007	-1	0.023	0.06	0.1	0.17	-0.05
1481781	37	24	0.066	14	0.43	0.007	1	0.012	0.07	-0.1	0.25	-0.05
1481782	17	31	0.054	15	0.29	0.005	-1	0.012	0.07	-0.1	0.15	-0.05
1481783	17	37	0.054	14	0.21	0.005	1	0.015	0.06	0.1	0.06	-0.05
1481785	16	25	0.074	12	0.22	0.008	2	0.012	0.05	0.1	0.13	0.06
1481787	39	22	0.094	7	0.18	0.008	2	0.011	0.05	-0.1	0.12	0.08
1481788	35	25	0.085	14	0.49	0.007	3	0.02	0.06	0.1	0.27	-0.05
1481789	37	24	0.086	10	0.34	0.008	3	0.009	0.07	-0.1	0.29	0.06
1481790	26	32	0.076	19	0.28	0.006	2	0.018	0.08	0.2	0.18	-0.05
1481791	22	24	0.081	16	0.14	0.004	2	0.011	0.07	0.1	0.09	-0.05
1481793	37	24	0.104	14	0.29	0.007	3	0.011	0.08	-0.1	0.27	0.07
1481794	28	30	0.066	16	0.28	0.005	2	0.015	0.07	-0.1	0.27	-0.05
1481795	43	33	0.074	11	1.72	0.009	2	0.026	0.06	0.1	0.16	0.06
1481796	26	37	0.086	18	0.31	0.005	2	0.012	0.09	-0.1	0.13	-0.05
1481797	26	30	0.083	15	0.37	0.006	2	0.014	0.08	0.1	0.17	0.06
1481798	9	34	0.05	14	0.12	0.005	1	0.015	0.06	0.1	0.04	-0.05
1481799	33	24	0.119	9	0.41	0.007	3	0.009	0.06	-0.1	0.2	0.14
1481800	46	40	0.103	17	2.29	0.01	3	0.055	0.08	-0.1	0.08	-0.05
1481801	48	64	0.129	16	0.27	0.009	3	0.018	0.13	0.2	0.46	0.18
1481802	40	33	0.094	17	0.53	0.009	2	0.018	0.12	0.1	0.24	0.06
1481803	67	45	0.159	18	0.32	0.009	3	0.024	0.08	0.2	0.21	-0.05
1481804	27	33	0.08	18	0.45	0.009	2	0.027	0.08	0.1	0.22	-0.05
1481805	28	29	0.092	13	0.39	0.007	3	0.015	0.08	-0.1	0.22	0.08
1481806	37	95	0.116	16	1.98	0.009	3	0.071	0.07	0.2	0.15	-0.05
1481807	42	24	0.093	9	1.09	0.009	3	0.012	0.05	-0.1	0.08	0.09
1481808	13	24	0.029	24	0.43	0.005	2	0.013	0.1	0.1	0.18	0.11
1481809	41	48	0.107	17	0.36	0.006	2	0.042	0.09	0.3	0.41	0.08
1481810	20	51	0.043	16	0.4	0.007	2	0.025	0.06	0.2	0.09	-0.05
1481812	29	35	0.101	16	1.08	0.008	2	0.027	0.07	0.1	0.18	-0.05
1481814	34	34	0.084	14	1.76	0.009	1	0.028	0.07	0.1	0.18	-0.05
1481816	33	41	0.095	14	1.83	0.01	1	0.035	0.07	0.2	0.15	-0.05
1481817	31	33	0.081	12	1.79	0.009	2	0.019	0.06	0.1	0.08	-0.05
1481818	19	44	0.067	16	0.4	0.006	1	0.015	0.05	0.2	0.1	-0.05
1481821	64	41	0.126	15	0.33	0.007	2	0.02	0.12	0.2	0.26	0.13
1481823	28	40	0.079	18	0.53	0.007	1	0.029	0.08	0.2	0.17	-0.05
1481824	33	40	0.103	19	0.97	0.008	1	0.031	0.08	0.1	0.07	-0.05
1481825	20	38	0.075	16	0.49	0.008	-1	0.026	0.05	0.1	0.09	-0.05
1481826	58	24	0.051	8	4.94	0.011	2	0.017	0.04	0.1	0.08	-0.05

1481827	36	32	0.075	12	1.77	0.009	2	0.021	0.06	0.1	0.14	-0.05
1481828	91	15	0.031	4	7.14	0.01	2	0.007	0.04	-0.1	0.16	-0.05
1481831	27	35	0.115	17	0.81	0.009	1	0.023	0.05	0.2	0.08	-0.05
1481832	23	34	0.087	19	0.5	0.005	1	0.014	0.07	0.1	0.14	-0.05
1481833	28	41	0.099	20	1	0.007	2	0.033	0.09	0.1	0.09	-0.05
1481834	22	72	0.071	18	0.93	0.007	2	0.026	0.09	0.2	0.14	-0.05
1481835	84	13	0.027	2	8.14	0.009	-1	0.004	-0.01	0.1	0.08	-0.05
1481836	90	12	0.015	3	7.01	0.007	-1	0.003	-0.01	-0.1	0.08	-0.05
1481837	82	16	0.037	4	7.5	0.011	2	0.005	0.02	-0.1	0.1	-0.05
1481838	86	19	0.051	5	6.2	0.008	2	0.008	0.06	-0.1	0.14	-0.05
1481839	92	21	0.093	6	4.78	0.008	3	0.006	0.05	0.1	0.18	-0.05
1481840	55	54	0.081	8	3.79	0.005	2	0.014	0.06	0.2	0.51	-0.05
1481841	28	33	0.088	15	1.59	0.007	-1	0.018	0.07	-0.1	0.14	-0.05
1481842	69	154	0.167	16	5.01	0.008	1	0.141	0.13	0.2	0.13	-0.05
1481843	15	43	0.069	15	0.44	0.004	-1	0.015	0.06	0.1	0.06	-0.05
1481844	89	31	0.062	6	7.77	0.01	-1	0.006	0.02	0.3	0.34	-0.05
1481845	92	15	0.025	3	9.09	0.012	-1	0.004	0.01	0.1	0.12	-0.05
1481846	87	23	0.037	4	8.53	0.013	-1	0.007	0.02	0.2	0.17	-0.05
1481847	89	19	0.035	4	7.85	0.01	1	0.007	0.02	0.1	0.14	-0.05
1481848	62	21	0.04	3	8.28	0.011	-1	0.005	0.02	0.2	0.25	-0.05
1481849	38	66	0.123	11	0.91	0.006	2	0.018	0.09	0.6	1.09	0.17
1481850	70	145	0.163	16	4.19	0.01	1	0.146	0.1	0.2	0.1	-0.05
1481851	72	129	0.143	13	4.77	0.008	-1	0.119	0.1	0.2	0.13	-0.05
1481852	28	67	0.116	19	1.29	0.007	-1	0.041	0.08	0.1	0.12	-0.05
1481853	89	11	0.023	1	9.62	0.01	-1	0.003	-0.01	0.2	0.08	-0.05
1481854	106	14	0.023	2	9.72	0.01	-1	0.003	-0.01	0.1	0.13	-0.05
1481855	71	22	0.026	3	9.27	0.01	1	0.01	0.02	0.4	0.43	-0.05
1481856	73	21	0.035	2	10.42	0.012	2	0.008	0.02	-0.1	0.06	-0.05
1481857	68	20	0.051	3	9.95	0.012	2	0.007	0.04	-0.1	0.07	-0.05
1481858	56	65	0.088	6	6.64	0.008	1	0.02	0.05	0.2	0.26	-0.05
1481859	66	147	0.138	14	4.32	0.007	2	0.124	0.09	0.2	0.12	-0.05
1481860	60	181	0.144	16	3.84	0.006	2	0.139	0.12	0.2	0.17	-0.05
1481861	58	28	0.059	7	6.59	0.009	-1	0.014	0.03	0.1	0.05	-0.05
1481862	65	23	0.104	3	8.22	0.01	3	0.003	0.02	0.9	0.05	-0.05
1481863	67	40	0.084	5	8.38	0.01	-1	0.013	0.03	0.3	0.15	-0.05
1481864	77	24	0.077	4	8.73	0.01	-1	0.007	0.02	0.2	0.11	-0.05
1481865	77	66	0.099	6	7.41	0.009	2	0.024	0.09	0.3	0.38	-0.05
1481866	93	38	0.052	5	7.47	0.008	-1	0.013	0.04	0.1	0.27	-0.05
1481867	71	33	0.037	4	7.97	0.009	-1	0.011	0.03	-0.1	0.13	-0.05
1481868	63	219	0.134	14	4.32	0.007	1	0.098	0.12	0.3	0.23	-0.05
1481869	41	66	0.118	9	4.46	0.009	1	0.013	0.04	0.3	0.16	-0.05
1481870	64	32	0.068	6	6.62	0.01	1	0.011	0.03	0.1	0.06	-0.05

Sample #4	Sc_ppm	Tl_ppm	Ga_ppm	Se_ppm	Te_ppm
1481776	2.1	0.3	5	-0.5	-0.2
1481777	0.8	0.1	4	-0.5	-0.2
1481778	2.3	0.1	4	-0.5	-0.2
1481781	4.2	0.2	2	-0.5	-0.2
1481782	3.2	0.2	3	-0.5	-0.2
1481783	2.2	0.3	4	-0.5	-0.2
1481785	1.8	0.1	2	-0.5	-0.2
1481787	1.4	0.1	2	-0.5	-0.2
1481788	3.8	0.2	2	0.5	-0.2
1481789	3.1	0.2	2	-0.5	-0.2
1481790	3.6	0.2	3	-0.5	-0.2
1481791	1.6	0.2	2	-0.5	0.3
1481793	3.9	0.2	2	0.9	-0.2
1481794	3.5	0.2	3	-0.5	-0.2
1481795	2.7	0.3	2	-0.5	-0.2
1481796	4.3	0.2	3	0.6	-0.2
1481797	4.1	0.2	2	-0.5	-0.2
1481798	1.3	0.2	4	-0.5	-0.2
1481799	1.8	0.2	2	0.8	-0.2
1481800	3.6	0.1	3	-0.5	-0.2
1481801	2.4	0.5	4	2.8	-0.2
1481802	4.8	0.3	2	-0.5	-0.2
1481803	4	0.3	3	-0.5	-0.2
1481804	4.3	0.2	2	-0.5	-0.2
1481805	3.6	0.2	2	-0.5	-0.2
1481806	4.3	0.5	5	0.6	-0.2
1481807	2.5	0.2	1	0.6	-0.2
1481808	1.3	0.4	1	3	-0.2
1481809	2.4	0.7	4	0.7	-0.2
1481810	3	0.2	5	-0.5	-0.2
1481812	4.4	0.2	2	0.5	-0.2
1481814	4.1	0.2	2	-0.5	-0.2
1481816	3.8	0.2	3	0.5	-0.2
1481817	3	0.2	2	0.9	-0.2
1481818	3.9	0.3	4	-0.5	-0.2
1481821	3.6	0.7	4	0.9	0.3
1481823	4.4	0.2	3	0.5	-0.2
1481824	4.4	0.5	3	0.6	-0.2
1481825	3.6	0.2	3	-0.5	-0.2
1481826	2.4	0.4	2	0.6	-0.2

1481827	3	0.2	2	-0.5	-0.2
1481828	1.4	1.3	-1	0.8	-0.2
1481831	4.3	0.1	2	-0.5	-0.2
1481832	4.6	0.3	2	-0.5	-0.2
1481833	4.7	0.2	3	-0.5	-0.2
1481834	5.4	0.3	4	-0.5	-0.2
1481835	0.4	0.3	-1	1.1	-0.2
1481836	0.5	1.5	-1	1.6	-0.2
1481837	1.6	1.1	-1	0.9	-0.2
1481838	2.1	2.5	1	1	-0.2
1481839	1.8	1.6	2	1.4	-0.2
1481840	3	2.9	4	4.7	-0.2
1481841	4.2	0.2	2	-0.5	-0.2
1481842	5.1	0.4	7	1.3	-0.2
1481843	3.2	0.2	3	-0.5	-0.2
1481844	0.7	1.5	-1	3.1	-0.2
1481845	0.5	1	-1	1.6	-0.2
1481846	0.7	0.9	-1	1.8	-0.2
1481847	1.4	2.3	-1	1.2	-0.2
1481848	0.9	1.1	2	2.6	-0.2
1481849	2.8	3.5	10	18.3	-0.2
1481850	4.7	0.4	6	0.8	-0.2
1481851	3.4	0.4	5	1.5	-0.2
1481852	4.7	0.2	4	-0.5	-0.2
1481853	0.3	0.5	-1	0.5	-0.2
1481854	0.4	0.6	-1	0.8	-0.2
1481855	0.7	0.6	3	3.9	-0.2
1481856	0.9	1.1	1	0.7	-0.2
1481857	1.1	1.3	1	0.8	0.6
1481858	1.9	1.2	3	2.6	-0.2
1481859	3.8	0.3	5	0.8	-0.2
1481860	4.5	0.5	5	1.6	-0.2
1481861	2	0.4	1	0.5	-0.2
1481862	0.3	0.5	-1	0.6	-0.2
1481863	1.3	0.9	1	0.8	-0.2
1481864	0.9	0.7	2	0.7	-0.2
1481865	1.8	1	4	3.5	0.2
1481866	1.8	1	2	1.8	0.8
1481867	1.7	0.7	-1	0.8	-0.2
1481868	4.2	0.7	5	1.2	-0.2
1481869	2.2	0.3	2	1	-0.2
1481870	1.9	0.4	1	0.7	-0.2