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ONTARIO EXPLORATION CORPORATION ASSISTANCE PROGRAM

2018 PROJECT REPORT

Project 4264813+15

BLACKWELL and LAURIE TOWNSHIP

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September 12, 2018

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SUMMARY

Project 4264813+15 consists of two unpatented claims (TB4264813 and 4264815) located in Blackwell and Laurie Townships.

The Shebandowan Greenstone Belt is a proven gold and massive sulphide producing belt with past producing mines and numerous gold and base metal occurrences.

Previous work in the area indicates a geological environment favourable to hosting gold deposits (Pistol Lake, Bandore Property, Moss Lake Property, Shabaqua area, Dawson Road Lots, Goldie Prospect, Gold Creek Area), the formation of volcanogenic massive sulphide deposits (Bylund, Finmark, Vanguard and Coldstream Properties) and the deposition of magmatic sulphide orebodies (Inco Shebandowan Mine).

The area has been featured by the Resident Geologist Thunder Bay South in Recommendations for Exploration 2016-2017 and Recommended #1 Gold Exploration Target MNDM Regional Till Sampling 1999 (OFR5993).

The property is underexplored, with only a first pass for gold and VMS, yet a significant database exists which demonstrates favourable potential for hosting economic gold, nickel, copper, PGE and zinc deposits.

Excellent access and infrastructure are advantageous for economic and efficient exploration

From April 20, 2018 to September 11, 2018 a program of field work, analytical work, analysis and report writing was undertaken on the property. The claim holder supervised all aspects of the project and authored this report.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical survey and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

Results of this exploration program indicate that gold mineralization may be widespread in the project area and that good potential exists for significant base metal.

Humus and Alder Twig geochemistry appear to effectively indicate gold, arsenic and zinc within bedrock sources.

Altered volcanic, sedimentary and intrusive rocks with extensive alteration and mineralization (ankerite-silicification-sulphide) associated with gold and other metals were observed within the study area.

The report recommends geological mapping and sampling be undertaken. Additional areas should be prioritized for stripping. All stripped areas should be washed, mapped and sampled. Additional geochemical sampling should be undertaken to cover the remainder of the property. Geophysics including Maxmin and IP would provide improved targeting for diamond drilling.

INTRODUCTION:

Project 4264813+15 consists of two unpatented claims (TB4264813 and 4264815) located in Blackwell and Laurie Townships.

Exploration Plan (PL-17-10845) and Permit (PR-16-11025) are current.

The area hosts numerous significant occurrences, deposits and past and present producers of gold and base metals.

The property is under-explored and has excellent potential for hosting economic gold, nickel, copper, PGE and zinc deposits.

From April 20, 2018 to September 11, 2018 a program of field work, analytical work, analysis and report writing was undertaken on the property. The claim holder supervised all aspects of the project and authored this report.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical survey and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

LOCATION:

The project is located in the townships of Blackwell and Laurie, 45 km west of Thunder Bay, 2 km west of Shabaqua Corners in the Thunder Bay Mining Division. (See Regional Location Map)

NTS: 52/A12SW

UTM nad83: Zone 16: 284000E, 5386000N

ACCESS:

Access to the north part of the property includes highway 11/17 and Lyyli Road. The southern part of the property is best accessed by Shabaqua Road or Gold Creek Road to Haner Road, a forestry access road, which crosses the south part of the property. Haner Road is currently being used as a forestry haul road and as such the road is currently being maintained.

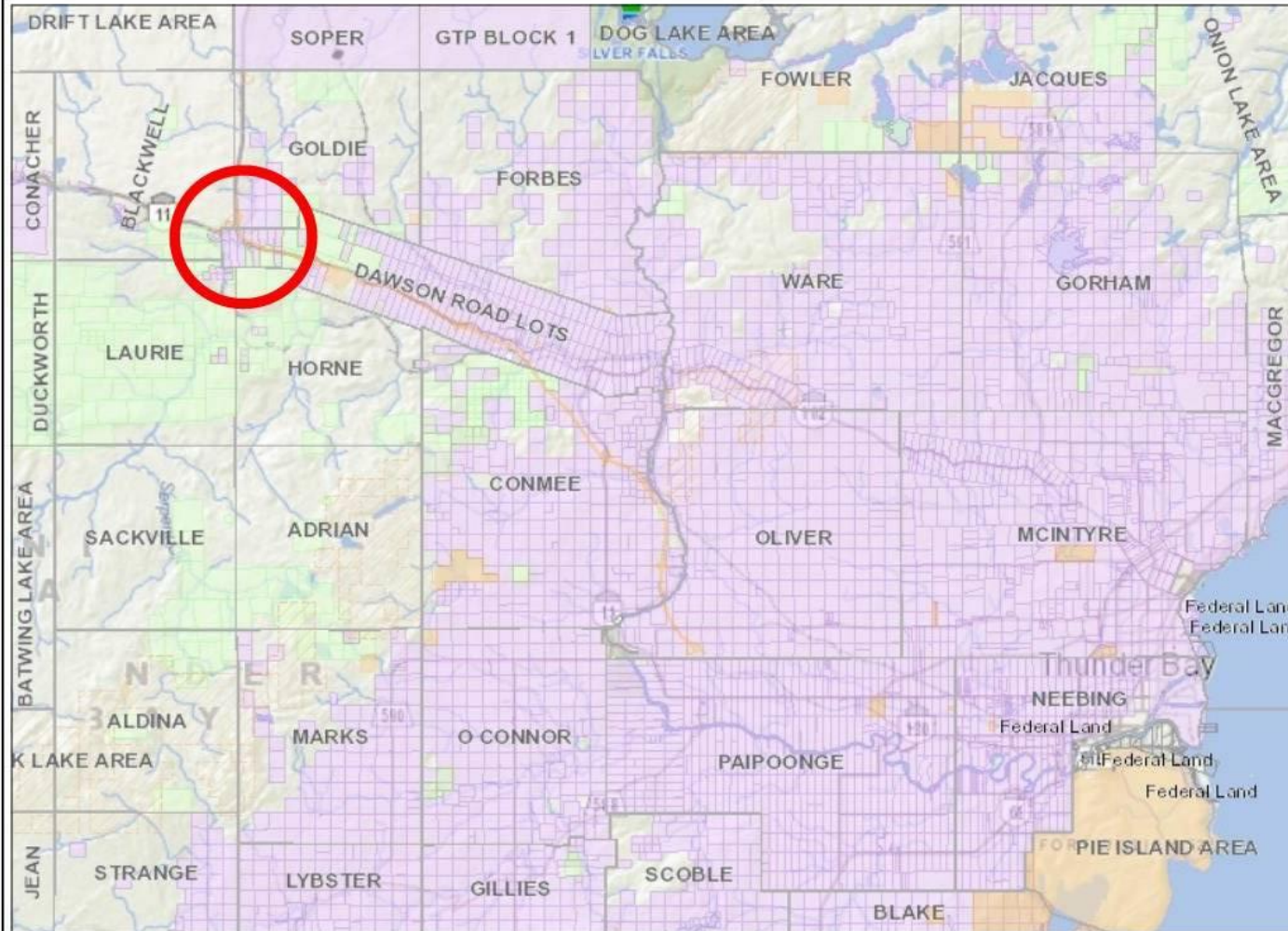
Off of Haner road, a maze of overgrown haulage trails provide foot, atv and tracked vehicle access to most of the property. The Wedge Occurrence area is best accessed by 4x4 or ATV on bush roads that leave Haner Road to the East of the South Zone.

PROPERTY:

The property consists of two unpatented Legacy claims (TB4264813 and 4264815) comprising 24 Legacy units approximately 384 ha in area and comprising all or part of 35 Claim Cells as follows:

161130	161131	186648	122643	122644	271859	215932
271860	290516	215933	290517	290518	342100	342101
329732	329733	342102	133812	198524	111423	150395
133813	187160	198525	265273	205985	245706	265274
271859	215932	271860	205986	333100	333101	321361

(See Claim Map)



Legend

Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

Mineral Tenure Grid

- OM TG Tenure Grid

Alienations

- Withdrawal
- Notice

Unpatented Claim

- Active
- Reconciled
- Pending

Disposition

- Disposition

Disposition Symbols

- Camp
- Disposition Unknown/Pending
- Freehold Patent Mining Rights Only
- Freehold Patent Surface Rights Only
- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

Geology Layers

- AMIS Sites
- AMIS Features
- Drill Holes
- Mineral Occurrences

0 15.85 km

Projection: Web Mercator



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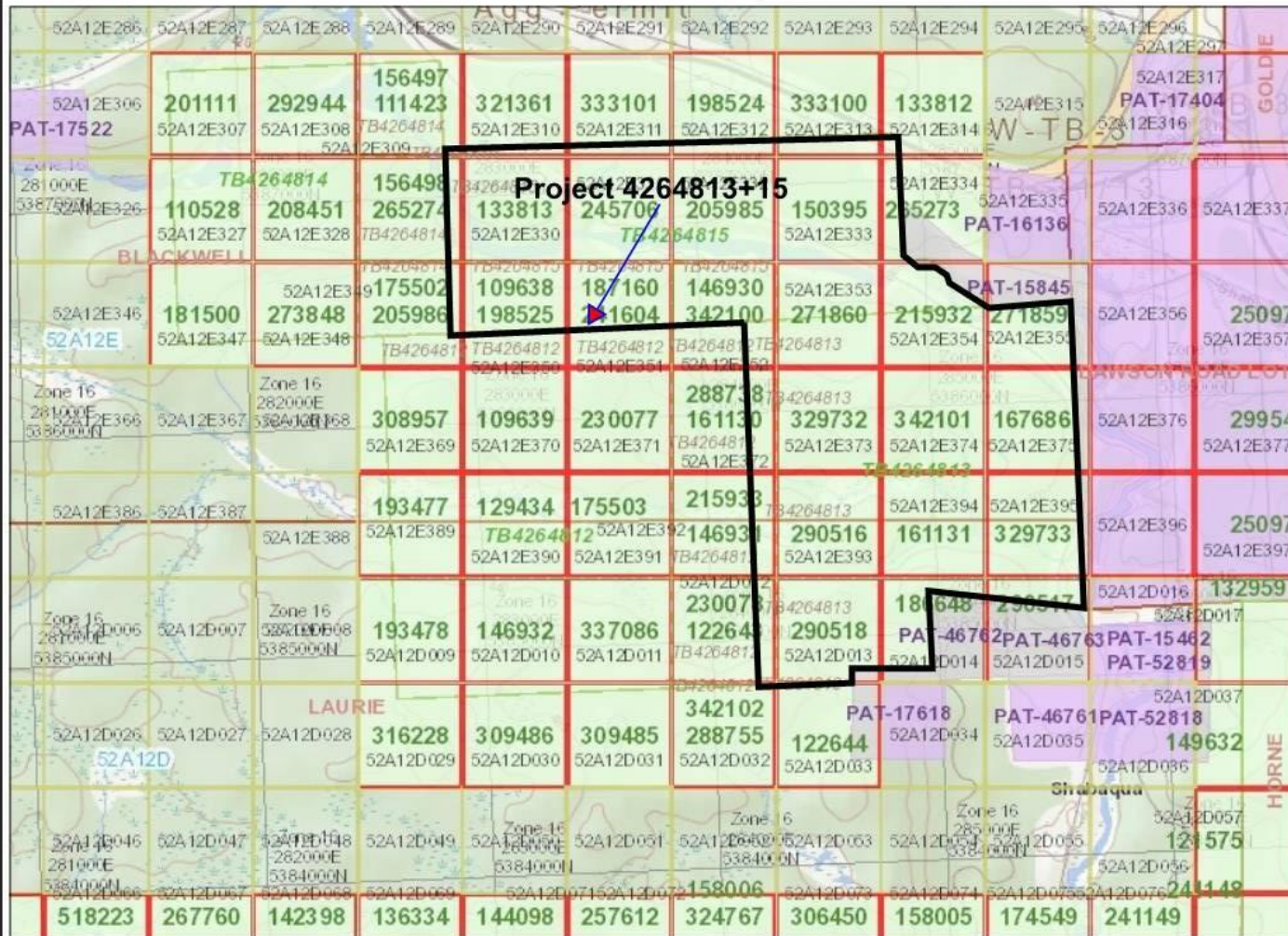
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Notes:



Legend

Provincial Grid Cell

- Available
- Pending
- Unavailable

Mining Claim

- Mining Lease
 - Surface Rights Only
 - Mining Rights Only
 - Surface and Mining Rights
- Mining Licence of Occupation
 - Surface Rights Only
 - Mining Rights Only
 - Surface and Mining Rights
- Mining Patent
 - Surface Rights Only
 - Mining Rights Only
 - Surface and Mining Rights

Boundary Claim

- Legacy Claim
- Mining Claim - History
- Mining Land Tenure - History

Mining Division

- MNDM Townships and Areas

Provincial Grid Group

Non-Mining Land Tenure

- Patent, Surface Rights Only
- Patent, Mining Rights Only
- Patent, Surface and Mining Rights
- Lease, Surface Rights Only



Projection: Web Mercator



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REGIONAL GEOLOGY:

The project area lies within the western extension of the Abitibi-Wawa-Shebandowan subprovince of the Superior structural province of the Canadian Shield. The volcanic-sedimentary units of this belt are bounded to the south by granitic terrain and to the north by the Quetico subprovince.

The volcanic-sedimentary stratigraphy can be subdivided into the Greenwater Assemblage of Keewatin-age (2710-2722 Ma), the Kashabowie Group (2695-2710 Ma) and the Shebandowan Assemblage of Timiskaming-age (2689-2696 Ma). The Greenwater Assemblage is interpreted to have island arc and ocean crustal origins. The Greenwater assemblage is extensively homoclinal and youngs to the north. The Kashabowie Group includes a mixed stratigraphic sequence composed of ultramafic to felsic volcanic and intrusive units with narrow chemical and clastic sedimentary units includes graphitic argillites, iron formation, chert and sulphidic exhalites and composite intrusive units. The Shebandowan assemblage is composed of alluvial-fluviatile sediments, alkaline volcanics and associated alkaline intrusives.

The Timiskaming units occupy fault bounded basins within the Keewatin stratigraphy which are interpreted to have formed during regional transpressional deformation at 2700 Ma. Two major regional breaks, the Crayfish Creek and Postans Lake faults, extend in an east west direction across the belt, and define in part major unconformable contacts between Timiskaming and Keewatin assemblages. A third major regional break, the Tinto Lake Fault, extends in a northeast direction across the belt, and defines in part major unconformable contacts between Timiskaming and Keewatin assemblages.

The Quetico subprovince occurs to the north and consists of a monotonous sequence of turbidites ranging from conglomerate to greywacke to argillite.

Regional metamorphic grade is lower greenschist facies with higher grades up to lower amphibolite facies occurring proximal to intrusive contacts.

This portion of the belt exhibits strong similarities to the Val d'Or, Timmins and Kirkland Lake areas both in geological and tectonic evolution. Geological models based upon the gold deposits related to the Timiskaming environments of the Abitibi are being used as effective guides for exploration in the Shebandowan area. Since the mid 1980's, over 100 new gold occurrences have been discovered in the belt, mostly as a result of surface prospecting, which has brought to light the potential for additional gold discoveries and illustrates the relatively unexplored nature of the belt. The identification of this Timiskaming-type of geological setting and related gold mineralization has resulted in the area being re-named the Matawin Gold Belt by government geologists (Lavigne and Scott, 1994).

MODEL OF GOLD MINERALIZATION:

The Shebandowan area exhibits many of the important elements of a distinct class of gold deposits found within the Abitibi belt. The main characteristics of these gold deposits are their close spatial association with Timiskaming aged felsic to intermediate stocks and dykes, Timiskaming type fluvial-alluvial sedimentary and volcanic rocks, which have intruded 25 to 35 Ma older rocks in unconformable contact along major fault zones. Gold ore bodies occur within composite stocks or along their margins (Beattie, Young-Davidson), adjacent satellite dykes and sills (Ross, Douay No 531, Holt McDermott South zone), and along faults and lithological contacts away from the intrusions (Lightning zone, Douay No. 68) commonly with mafic to ultramafic volcanics and graphitic argillites. Orebodies in such positions are interpreted to represent proximal to distal components of large magmatic hydrothermal systems (Robert, 1997). Ore bodies consist of disseminated sulphides with variably developed stockworks of quartz-carbonate-albite +/- K-feldspar veinlets, within zones of carbonate, albite, sericite and locally K feldspar alteration.

Examples of gold deposits from the area that fit this model include the Pistol Lake Property located 22 km to the west of the project area, the Bandore property 17 km to the west, the Gold Creek Property 13 km to the south and the Tower Property 16 km to the east.

A well-defined model of Archean gold deposits has been developed that has application to this area and is described as follows in "Discover Prospecting an introductory prospecting manual" available from the Ontario Prospectors Association.

The statement "gold is where you find it", has a significant amount of validity. Gold in Archean terrain can be found in virtually any rock type.

Gold is either "primary" that is part of the original rock or "secondary" that is that gold has been added or concentrated in a rock later. Often it is some combination of primary concentration and secondary enrichment that results in the development of significant gold mineralization.

The most favourable host rocks for gold mineralization occur within greenstone belts and include iron-rich rocks such as magnetite-rich iron deposits, gabbros and mafic volcanic rocks. The sulphur in the hydrothermal solutions reacts with the iron in the rocks to form iron sulphide minerals, such as pyrite. This process stimulates the precipitation of gold, which commonly coats or "plates" the pyrite crystals. Ultramafic, magnesium-rich rocks and carbon-rich, graphitic rocks are also good chemical traps for vein minerals such as gold-bearing veins. Other rock types, such as intermediate to felsic, igneous intrusive rocks, are also closely related to vein deposits. These intrusive rocks may have been sources for hydrothermal fluids that escaped from the intrusions as they cooled and transported minerals and elements into open fractures. This may explain why many vein deposits are spatially associated with intrusive igneous rocks. Many gold vein deposits, for example, occur at or near the margins of felsic intrusions and silver vein deposits are closely related to intrusions of diabase.

Secondary enrichment is almost always a major characteristic of economic Archean gold deposits. Three important factors are often present in secondary enrichment of gold: deformation of rocks (folding and fracturing); hydrothermal processes; and vein development.

The term "hydrothermal" means "hot water". Hydrothermal solutions originate from the dehydration of rocks during compaction and metamorphism; and from cooling, igneous intrusions. The water (seawater, groundwater, rainwater) may also originate on the Earth's surface but percolates downwards into the crust where it is heated and circulated. These fluids are highly mobile and chemically reactive, making them excellent solvents for metals and minerals. Open fractures and porous rocks allow the passage and circulation of these solutions. Vigorous chemical reactions occur between the fluids and minerals in rocks that are exposed along the walls of the fractures. These chemical reactions change the composition of the rocks and the fluids. When the composition of the hot solutions are changed their ability to transport dissolved elements quickly diminishes and metals and minerals are precipitated and deposited in the open fractures. Mineral fillings in open fractures or veins are typical hydrothermal mineral deposits. A typical vein is a mineral deposit which has filled an open fissure solidly from wall to wall. Veins usually have sharply defined boundaries but there may be a complete gradation from the vein into the surrounding wall rocks. The shape and physical character of a vein depends upon the type of fissure it has filled, such as an opening formed by structural deformation, or an original opening in the rock. Veins may be any size and form; they can be found in any rock type; and they may be composed of only one type of mineral or extensive assemblages of minerals. The majority of veins are dominantly composed of quartz and/or carbonate minerals with a wide variety of accessory minerals. Mineralization may be evenly distributed throughout the veins; concentrated along vein-wall rock contacts; or concentrated around rock fragments in the vein. Some mineralization may also extend outwards from the vein into the surrounding wall rocks. Replacement deposits are formed by the deposition of abundant vein minerals in the wall rocks without the formation of veins.

Veins represent mineral fillings of open spaces in rocks. Therefore, they are very closely associated with strongly deformed rocks. Most veins occur in very structurally complicated deformation zones and

tectonic breaks that provide an abundance of open spaces for vein development. Veins may be associated with small-scale faults, shear zones, folds structures and fracture systems or large deep-seated fracture and fault systems developed during regional earth movements.

The composition of rocks localize deformation zones and specific types of structures. Felsic rocks, iron formation and small igneous intrusions commonly host fracture systems and brecciated zones. Mafic and ultramafic rocks host shear and fracture zones. Rock contacts between different rock types are also the site of deformation due to the contrast in composition between the rocks.

Vein systems are usually tabular, sub-vertical, structures. The thickness of a vein system is commonly measured in metres and its strike and dip dimensions measured in tens or hundreds of metres. The economically valuable part of the vein may be considerably smaller than the vein itself because the majority of veins are not evenly mineralized. The vein system may also be part of a larger structure consisting of a system of separate shear zones each hosting their own vein systems.

Vigorous chemical reactions occur between hydrothermal fluids and wall rocks as the fluids circulate through open spaces. These chemical reactions promote the precipitation of minerals from the solutions and change the mineralogical and chemical composition of the wall rocks. The chemical reactions commonly remove and/or add elements to the rocks resulting in the destruction of pre-existing minerals and the formation of new minerals. This effect is called wall rock alteration, which accompanies all mineral deposits formed by hydrothermal fluids. Wall rock alteration is readily visible to the eye and commonly results in discolouration of the rocks and the growth of new minerals. It can also change the physical properties of rocks and make them harder or softer.

In a simple fissure vein the alteration extends parallel to the walls of the fissure and forms an alteration halo around the vein. The halo is relatively uniform in width but can vary according to the size of the vein, or the intensity/amount of fluid movement. If the veins are closely spaced, the alteration halo of one vein may merge with the halos of other veins. The alteration may also be very extensive and widespread affecting a large area of rocks. The type, extent and intensity of the alteration depends upon the chemical composition of the wall rocks and solutions; temperature and pressure of the mineralizing solutions; the amount of solutions involved; and the size of the open spaces. Rocks that are easily altered, such as mafic and ultramafic rocks, will exhibit intense and extensive alteration. The reverse is true for less chemically reactive rocks, such as felsic, silica-rich rocks. Large structural systems that allowed the passage of enormous quantities of solutions will host extensive vein systems with widespread alteration.

Many vein systems are relatively small and difficult to locate, therefore, recognizing wall rock alteration is important. The alteration that surrounds a vein system may be much more extensive and widespread than the smaller vein system. Therefore, recognition of rock alteration may lead a prospector to the mineralized veins.

Wall rock alteration is not only associated with veins, but occurs with any mineral deposits formed by the circulation of hydrothermal fluids in rocks. Below are descriptions of the more common types of wall rock alteration.

Carbonatization: This involves the formation of carbonate minerals (calcite, ankerite, dolomite) in the wall rocks. This alteration "bleaches" or discolours the rock and gives it a distinctive orange-brown appearance on weathered surfaces and a pale grey or buff colour on fresh surfaces. Small crystals or "rhombs" of carbonate can sometimes be seen in the rocks. Carbonatization is most well developed in intermediate to mafic and ultramafic rocks.

Chloritization: This is the formation of abundant dark green chlorite in wall rocks due to enrichments in magnesium (Mg). Chloritized rocks are soft dark green and schistose. Chloritization is associated with carbonatization and is usually well developed in mafic rocks. It can also occur in very felsic rocks such as rhyolite.

Albitization: This is the formation of albite feldspar in wall rocks due to enrichments in sodium (Na). Albitized rocks are mottled white to grey and may contain small laths of secondary feldspar.

Epidotization: This is caused by the pervasive enrichment of epidote in wall rocks. Epidotized rocks are pale apple green and can be extremely hard with conchoidal fractures. Epidotization is most prominently developed in intermediate to mafic rocks.

Potassic Alteration: This type of alteration is caused by the enrichment of potassium (K) in wall rocks. Minerals that contain high amounts of potassium such as biotite mica, sericite mica and potash feldspar are abundant in potassium-enriched rocks. Rocks containing abundant, fine-grained, biotite may be schistose with a shiny, purple-brown tinge on weathered surfaces. Sericite is very fine-grained, muscovite mica, which is very white and shiny giving the altered rock a platy, schistose texture. Rocks enriched in potash feldspar are commonly pink or pink-orange and may contain laths of feldspar.

Sericitization: As mentioned above, sericitization is a result of potassium enrichment forming sericite mica. Sericite is commonly accompanied by quartz and pyrite. If the sericite is enriched in chromium it becomes a bright emerald green and is known as fuchsite or mariposite. Sericitization commonly occurs in felsic and sedimentary rocks while green sericite forms in mafic, ultramafic and felsic rocks. Green sericite is commonly associated with carbonate.

Silicification: This alteration occurs when there is a major enrichment of silica (SiO₂) in the wall rocks. Silicified wall rocks are very quartz-rich; have a cherty, porcelain or dull lustre; and are very hard with a conchoidal fracture. Silicification can occur in any rock type.

Sulphidation: This alteration consists of the development of iron sulphides (pyrite, arsenopyrite) in wall rocks due to the addition of sulphur to the iron-rich rocks. The sulphur combines with iron released during the decomposition of iron-rich minerals and forms iron sulphides. Sulphidation commonly occurs in iron-rich, mafic rocks and iron formation.

Many other types of alteration can occur, such as tourmalinitization (development of tourmaline due to enrichments in boron); dolomitization (addition of magnesium to limestone forms dolomite); garnetization (abundant garnet developed in an altered rock). Enrichments of aluminum in rocks commonly form assemblages of aluminum silicate minerals, such as andalusite, sillimanite and kyanite. Other minerals such as biotite, cordierite, chloritoid staurolite and anthophyllite may be formed by the metamorphism of altered rocks with enrichments of aluminum iron and magnesium.

Gold has been mined in various locations across Ontario including Red Lake, Hemlo, Pickle Lake, Beardmore, Geraldton, Kirkland Lake and Timmins. The gold deposits at Timmins, Kirkland Lake, Hemlo and Red Lake are famous world class ore bodies that have produced gold for many years. The Dome Mine in Timmins, for example, has produced gold for over 100 years..

REGIONAL VOLCANIC HOSTED BASE METAL DEPOSIT MODEL (modified from Discover Prospecting)

Mineral concentrations in volcanic rocks are formed by the discharge of hot, hydrothermal Solutions onto the seafloor. Metal-rich, sulphide minerals precipitate from the solutions and accumulate amongst volcanic and sedimentary rocks. These deposits form disseminated, semi-massive and massive, lens-shaped bodies of volcanogenic massive sulphides (VMS) which are a major source of copper, zinc, lead, silver, gold and minor amounts of tin, cadmium, antimony and bismuth. The typical economic deposit consists of several individual massive sulphide lenses that contain 1 to 10 million tonnes of ore grading 2% to 10% combined Cu, Zn and Pb. The largest deposits contain in excess of 100 million tonnes of ore. Deposits tend to occur in clusters and individual deposits occur within a single, specific sequence of rocks.

Massive sulphide deposits form in areas of underwater volcanic activity where seawater is drawn down through fractures in volcanic rocks and heated by cooling igneous intrusions beneath the seafloor. The heated seawater circulates through fractures and reacts with the rocks, leaching out metallic elements. Continued heating causes the solutions to circulate upwards along fractures. The solutions eventually pour out into the sea where metallic sulphide minerals precipitate from the solutions on or near the seafloor (Figure 2).

The form of the massive sulphide deposits range from steep-sided cones to flat, tabular, sheets that accumulate in deep water on the flanks of felsic, volcanoes or in topographic depressions (Figure 3). The most common metallic mineral in a massive sulphide lens is pyrite accompanied by pyrrhotite, chalcopyrite, sphalerite and galena. Chalcopyrite content decreases upward and outward from the base of the massive sulphide lens. A thinly bedded unit of iron-rich chert commonly overlies a sulphide deposit and may extend laterally away from the deposit. In some cases, the massive sulphides are spatially associated with magnetite-hematite and pyrite-pyrrhotite iron deposits (Figure 4).

Volcanogenic massive sulphides can be divided into two types: 1) a Zn-Pb-Cu type associated with intermediate to felsic volcanic flows, felsic quartz-and quartz-feldspar porphyries, felsic pyroclastic rocks and fine-grained sedimentary rocks; and 2) a Cu-Zn type associated with mafic, volcanic flows and fine-grained sedimentary rocks (Lydon 1984). Deposits of the Cu-Zn type occur where the rocks below the deposit consist of mafic volcanic rocks or their direct sedimentary derivatives, whereas deposits of the Zn-Pb-Cu type occur where the rocks below the deposit consist of felsic volcanic rocks or fine-grained, shaly sedimentary rocks.

Massive sulphide deposits are commonly underlain by a wide and extensive alteration zone (Figure 4) found in rocks that lie below the ore body (footwall rocks). Hot solutions that deposited the sulphides on the seafloor circulated through the rocks and chemically changed them by adding or removing elements during vigorous chemical reactions that occurred between the rocks and the solutions. Most footwall rocks beneath a massive sulphide lens are enriched in magnesium (Mg), iron (Fe), silicon (Si), potassium (K), copper (Cu) and zinc (Zn) and depleted in sodium (Na) and calcium (Ca). The altered rocks contain large amounts of minerals that would not normally occur in unaltered rocks, such as chlorite, sericite, biotite, talc, quartz, iron carbonate and disseminated sulphides. If the altered rocks are metamorphosed they may contain unusual concentrations and assemblages of very coarse-grained minerals, such as anthophyllite, kyanite, cordierite, sillimanite, staurolite, garnet, biotite and sericite. The occurrence of such minerals serves as guides to exploration for volcanogenic massive sulphide deposits.

Volcanogenic massive sulphide deposits occur across Ontario and are mined at the Kidd Creek Mine at Timmins; the Winston Lake Mine near Schreiber; and the Geco Mine at Manitouwadge. Past producers are the South Bay Mine near Red Lake; the Mattabi and Lyon Lake mines near Ignace; and the Temagami Mine at Temagami Lake.

Volcanogenic massive sulphide deposits are found at the Vanguard Property 38 km to the west and were mined at the Coldstream Mine 49 kilometres to the west. The Winston Lake Mine near Schreiber and the Geco Mine at Manitouwadge are both hosted in stratigraphy contemporaneous and comparable to the Burchell Assemblage crossing the Project Area.

REGIONAL MAFIC INTRUSION HOSTED BASE METAL DEPOSIT MODEL (modified from Discover Prospecting)

This Project hosts a geological environment that is similar to many Cu-Ni-PGE mining camps.

A well-defined model of magmatic sulphide deposits has been developed that has application to this area and is described as follows in "Discover Prospecting an introductory prospecting manual" available from the Ontario Prospectors Association.

Iron-nickel-copper sulphide deposits, platinum and chromium deposits are characteristically associated

with mafic and ultramafic igneous rocks.

The iron-nickel-copper sulphide deposits consist of massive, semi massive and disseminated pyrrhotite, pentlandite (nickel sulphide) and chalcopyrite (copper sulphide); and contain variable amounts of cobalt, platinum group elements, gold and silver. The deposits generally occur at the base of irregular gabbro intrusions, but may be found in ultramafic intrusive lenses or extrusive flows. The sulphides may also be concentrated in shear zones, and faults within the intrusions or may occur as veins or lenses in country rocks adjacent to the intrusions. Examples of significant iron-nickel-copper sulphide deposits in Ontario are: the complex and enormous deposits at Sudbury; the Shebandowan and Great Lakes Nickel deposits near Thunder Bay; and the Gordon Lake Mine at Rex-Werner lakes north of Kenora.

Chromium and platinum deposits occur in **layered**, sill-like or funnel-shaped, mafic to ultramafic **intrusions**. The layering consists of different rock types formed when various minerals are concentrated and segregated into layers as the intrusion crystallizes. The intrusions consist of layers of ultramafic rocks at the base with more felsic, granitic layers at the top. Individual layers may be a few centimetres to hundreds of metres thick. The chromium and/or platinum mineralization is commonly concentrated in ultramafic, peridotite layers that are rich in olivine. The deposits form tabular, parallel layers with remarkable lateral continuity. Chromite forms semi massive or massive chromitite seams that contain no sulphide minerals. Platinum group elements are also associated with sulphide minerals (pyrrhotite, chalcopyrite, pentlandite) that comprise less than 5% of the rock. Chromium deposits may also occur as intensely deformed pods or lenses of mineralization in highly deformed and altered ultramafic rocks. The ultramafic rocks are commonly serpentinized sheared and faulted.

Chromium deposits are known to occur in intrusions at Puddy, Obonga and Shebandowan lakes and in the Crystal Lake Gabbro near Thunder Bay; in the Big Trout Lake layered intrusion north of Pickle Lake in Northwestern Ontario; and in the Rex-Werner lakes area north of Kenora.

Platinum is produced at Sudbury and occurs in the Lac Des Illes Intrusion north of Thunder Bay; in the Big Trout Lake Intrusion; and in the Rex-Werner lakes area. Platinum is found in very low or anomalous amounts in many ultramafic intrusions throughout Ontario.

Nickel, Copper, Au and PGE mineralization was mined at the Shebandowan Mine 24 km to the west. A significant Chromium resource was also outlined at the Shebandowan Mine.

PROPERTY GEOLOGY:

The project area is underlain by Archean supracrustal rocks of the Shebandowan greenstone belt.

The supracrustal rocks strike east-west with subvertical dips and form an apparent homoclinal sequence which youngs to the north.

A mixed stratigraphic sequence of Keewatin units (Kashabowie Group) composed of ultramafic to felsic volcanic and intrusive units with narrow chemical and clastic sedimentary units includes graphitic argillites, iron formation, chert and sulphidic exhalites occurs in this area. Composite intrusive units intrude the supracrustals.

A pull-apart Timiskaming-like basin occurs to the north of the Keewatin stratigraphy and is composed of clastic sedimentary units (Shebandowan Assemblage).

East-west and northeast deformation zones cross the property.

All rock units have been subjected to regional progressive greenschist facies metamorphism.

PROPERTY MINERALIZATION:

1) Gold Mineralization:

Gold mineralization is associated with a series of east-west trending and north-east trending deformation zones and favourable stratigraphy interpreted to cross the property.

Sericite and carbonate altered volcanic rocks and graphitic argillites occur with sulphide mineralization extensively throughout the property.

Three gold occurrences have been identified on the property:

The Wedge Zone returned values up to 14.5 g/T Au in surface float and 0.28 g/T Au over 9.5 metres along a strike length of 185 metres as tested by 4 drill holes. The mineralization occurs in carbonate altered ultramafic and alkali units with arsenopyrite.

The Quartz Float occurrence area includes intensely deformed (brittle ductile) and altered (sericite carbonate) volcanic and sedimentary units that occur with extensive komatiitic units. Gold in soil and rock float assay up to 6.2 g/T Au.

The Shabaqua Occurrence is a shear zone in volcanics with anomalous Au, Cu and Zn exposed in old pits as sampled by OGS geologists.

Three gold occurrences occur immediately west of the property and are interpreted to strike onto the property:

The Kasper Occurrence hosts assays up to 17.8g/T Au and visible gold associated with iron formation, intrusive units and arsenopyrite. The zone is reported to be exposed in 1940's vintage trenches over a strike length of 600 metres.

The Creek Zone has returned assays up to 11.4 g/T Au in surface exposures and 2.27 g/T Au over 9.13 metres in drilling. Sulphidic exhalites with massive sulphides are inferred by geophysics as occurring over a strike length exceeding 1km.

The South Zone was intersected in a single drill hole testing a 2 km long geophysical anomaly. Sulphidic exhalite with ankerite stringers returned 0.34 g/T Au over 10.75 metres.

Many significant Gold Prospects are located proximal to the property: Goldie Prospect (Main and Shepherd Zones) is located 5 km to the east, Pistol Lake Property located 22 km to the west of the project area, the Bandore property 17 km to the west, the Gold Creek Property 13 km to the south and the Tower Property 16 km to the east.

2) Base Metal Mineralization:

Felsic volcanic stratigraphy with sulphide bearing exhalite indicates high potential for VMS mineralization on the property.

Extensive Cu and Zn in soil anomalies have been identified in previous soil surveys.

Massive sulphide horizons have been intersected in drilling.

Numerous conductive anomalies are likely associated with sulphidic exhalites.

Regionally, volcanogenic massive sulphide deposits are found at the Vanguard Property 38 km to the west and were mined at the Coldstream Mine 49 kilometres to the west both of which are interpreted to occur in the Kashabowie Group being the same stratigraphy as this property.

3) Magmatic Ni-Cu-PGE

Ultramafic units interpreted as the strike extension of the Shebandowan Mine stratigraphy cross the property.

Nickel, Copper, Au and PGE mineralization was mined at the Shebandowan Mine 24 km to the west. A significant Chromium resource was also outlined at the Shebandowan Mine.

PREVIOUS WORK:

1962, Falconbridge Nickel Mines drilled a single 198 metre hole (F-I), north of the Shebandowan River.

1976, Noranda completed geological mapping, magnetic surveys, electromagnetic surveys using the CEM system and soil geochemical survey with samples analysed for Cu and Zn.

1983, Lacana Mining Company carried out geological and a VLF-EM survey.

1984, Corporate Oil and Gas Co. conducted a reconnaissance geological and soil geochemical survey.

1988, JET Mining Exploration Inc. completed an airborne magnetic and VLF-EM survey.

1988, Noranda completed soil geochemical surveys for gold and geological mapping.

1994, Alan J. Wing conducted prospecting.

1996, Green Ice Corporation completed geophysical surveys including magnetometer, VLF-EM and IP.

1997, Battle Mountain Canada Inc. geological mapping and prospecting as well as ground magnetic surveys were conducted.

1997, Avalon Resources conducted geological mapping and magnetic surveys and IP surveys

2003, RJK conducted diamond drilling of the Wedge Zone.

RATIONALE:

The Shebandowan Greenstone Belt is a proven gold and massive sulphide producing belt with past producing mines and numerous gold and base metal occurrences.

Work in the area indicates a geological environment favourable to hosting gold deposits (Pistol Lake, Bandore Property, Moss Lake Property, Shabaqua area, Dawson Road Lots, Goldie Prospect, Gold Creek Area), the formation of volcanogenic massive sulphide deposits (Vanguard and Coldstream Properties) and the deposition of magmatic sulphide orebodies (Inco Shebandowan Mine).

The area has been featured by the Resident Geologist Thunder Bay South in Recommendations for Exploration 2016-2017 and Recommended #1 Gold Exploration Target MNM Regional Till Sampling 1999 OFR5993.

The property is underexplored with only a first pass for gold, VMS, and Ni-Cu-PGE yet previous work has provided a significant database to work from.

A preliminary exploration program carried out by the author earlier in 2017 immediately west and south of the current project returned significant Au and As in rock sampling and identified a corresponding Au and As anomaly in soil sampling that is interpreted to strike onto the current project area.

Humus and Alder Twig sampling has been shown to be highly effective in identifying Au, As and Zn occurring in covered bedrock sources in the area.

Excellent access and infrastructure are advantageous for economic and efficient exploration.

WORK PROGRAM:

From April 20, 2018 to September 11, 2018 a program of field work, analytical work, analysis and report writing was undertaken on the property. Field work was conducted from April 23 to July 17, 2018 and totaled 18 days. The claim holder supervised all aspects of the project and authored this report.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical sampling (humus and alder twig) and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

A geochemical survey, south of the Shebandowan River, comprised of 133 humus samples and 29 Alder Twig samples, tested the Wedge Occurrence area as well as stratigraphic and geophysical targets. Samples were ashed and analysed by NAA for multi-elements by Actlabs of Thunder Bay. (See Appendix III and IV)

Bedrock stripping was performed east of the Quartz Float Occurrence area with targets selected for ease of equipment access and prospectivity. Stripped areas were cleaned, mapped and sampled in a cursory fashion. An excavator (Cat 312 CL with modified dozer blade) was contracted from Belham Limited of Kaministiquia with Stephen Hamer as operator. (See invoice Appendix II 'West Property')

A total of 9 rock samples were analysed by AR-ICP analysis by Actlabs of Thunder Bay. (See Appendix III and IV)

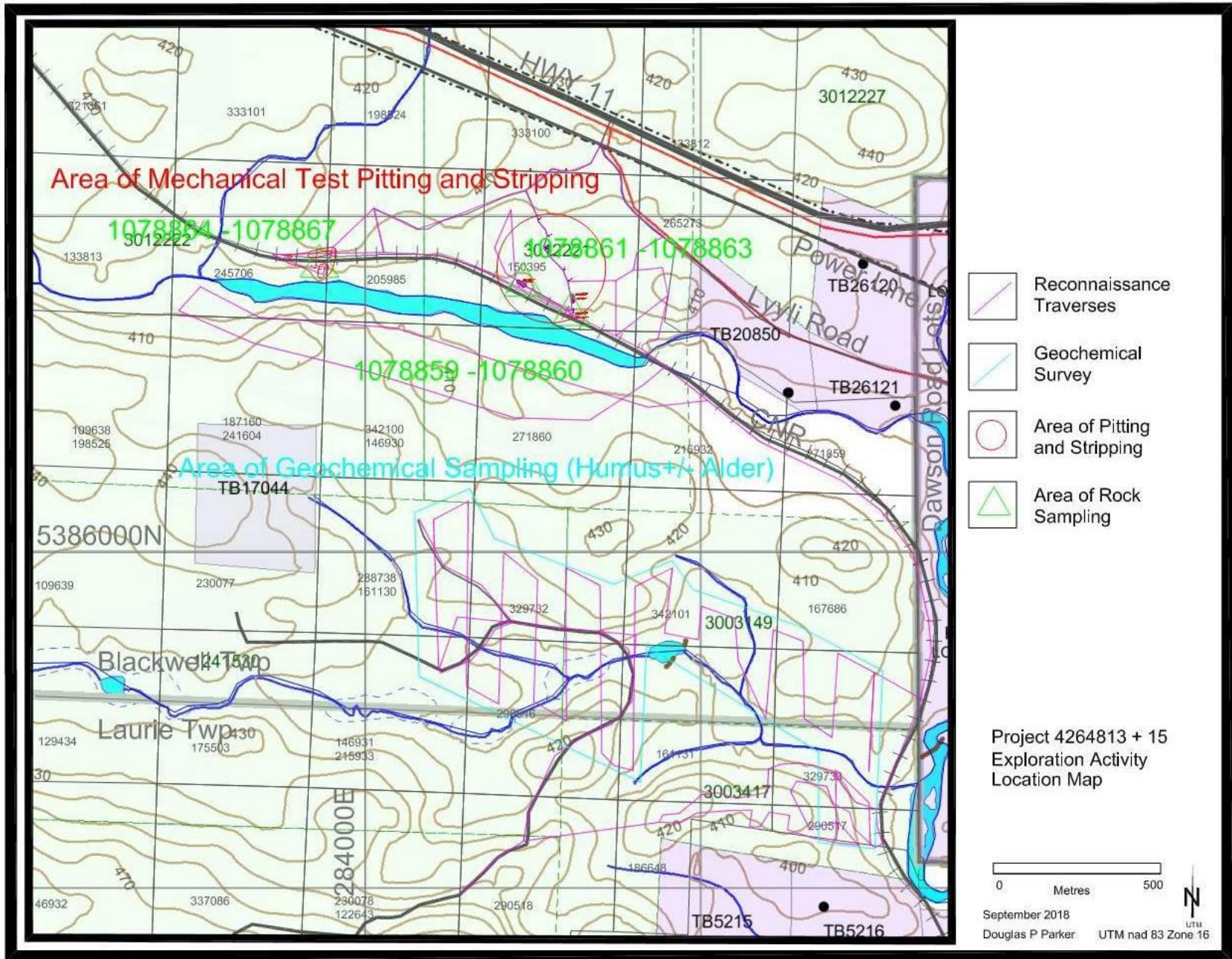
RESULTS AND DISCUSSION

Reconnaissance

Access to the north part of the property includes highway 11/17 and Lyyli Road. The southern part of the property is best accessed by Shabaqua Road and Haner Road, a forestry access road, which crosses the south part of the property. Haner road is currently being used as a forestry haul road and as such the road is currently being maintained. The CN Railroad crosses the property from Southeast to Northwest providing excellent access by foot. (See Exploration Activity Map)

Off of Haner road, a maze of overgrown haulage trails provide foot, atv and tracked vehicle access to most of the property. The Wedge Occurrence area is best accessed by 4x4 or ATV on bush roads that leave Haner Road to the East of the South Zone.

Much of the property has been logged within the last 20 years. Forestry activities are active on the property. Thick secondary growth, predominantly hardwood, covers most of the cut areas. Mature mixed forest covers the remainder of the property.



In the Wedge Zone area, outcrop exposure is sparse and largely confined to isolated ridges. Here overburden is quite extensive, typically clay and boulders in excess of 1m depth.

In the Quartz Float Occurrence area overburden is quite extensive, commonly clay and boulders in excess of 3m depth. Outcrop is rare with a few outcrops near the railroad and along the Shebandowan River and is particularly abundant in the Quartz Float Area over an area of about 100 metres square. Initial observations of the bedrock included a transition from volcanic dominated debris flows to the south and clastic sediments to the north. Large blocks of mineralized quartz vein are present south of the tracks.

Due to the lack of outcrop and extensive clay overburden north of the Shebandowan River, it was decided to focus the geochemical survey in the Wedge Occurrence area during this project due to the better exposure of outcrop, the more favourable overburden conditions for a geochemical survey and the more prospective nature of the geology.

Geochemical Sampling

Humus and Alder Twig sampling was undertaken over the Wedge Occurrence area. (See Geochemical Survey Sample Location Map)

Humus was sampled from the top 10 cm of soil with care taken to avoid leaf litter, pebbles, sand, clay and roots. Humus was placed in a kraft sample bag and marked with a sample number (GPS Waypoint). Notes were taken describing the soil present at the site.

A total of 133 humus samples were collected at 133 sites located by GPS.

Alder Twigs (*Alnus rugosa*) were labeled with GPS Waypoint with an A suffix (i.e. 1376 and 1376A). Samples consisted of 10 to 15 pieces of 50 cm long alder twigs collected from multiple trees at each sample site. Care was taken to standardize circumference of alder twigs (0.5 - 1.0cm). Twigs were stripped of leaves at the site, cut into 3 to 4 cm lengths and placed in numbered kraft bags.

A total of 29 Alder Twig samples were collected at 29 sites located by GPS.

Because of the highly variable nature and thickness of the overburden as well as the limited number of samples available to interpret the data for determination of geochemical anomalies, a visual analysis of the data rather than mathematical statistical analysis was preferred. The contoured anomalies displayed on the anomaly maps are considered significantly enriched above background for the elements analysed.

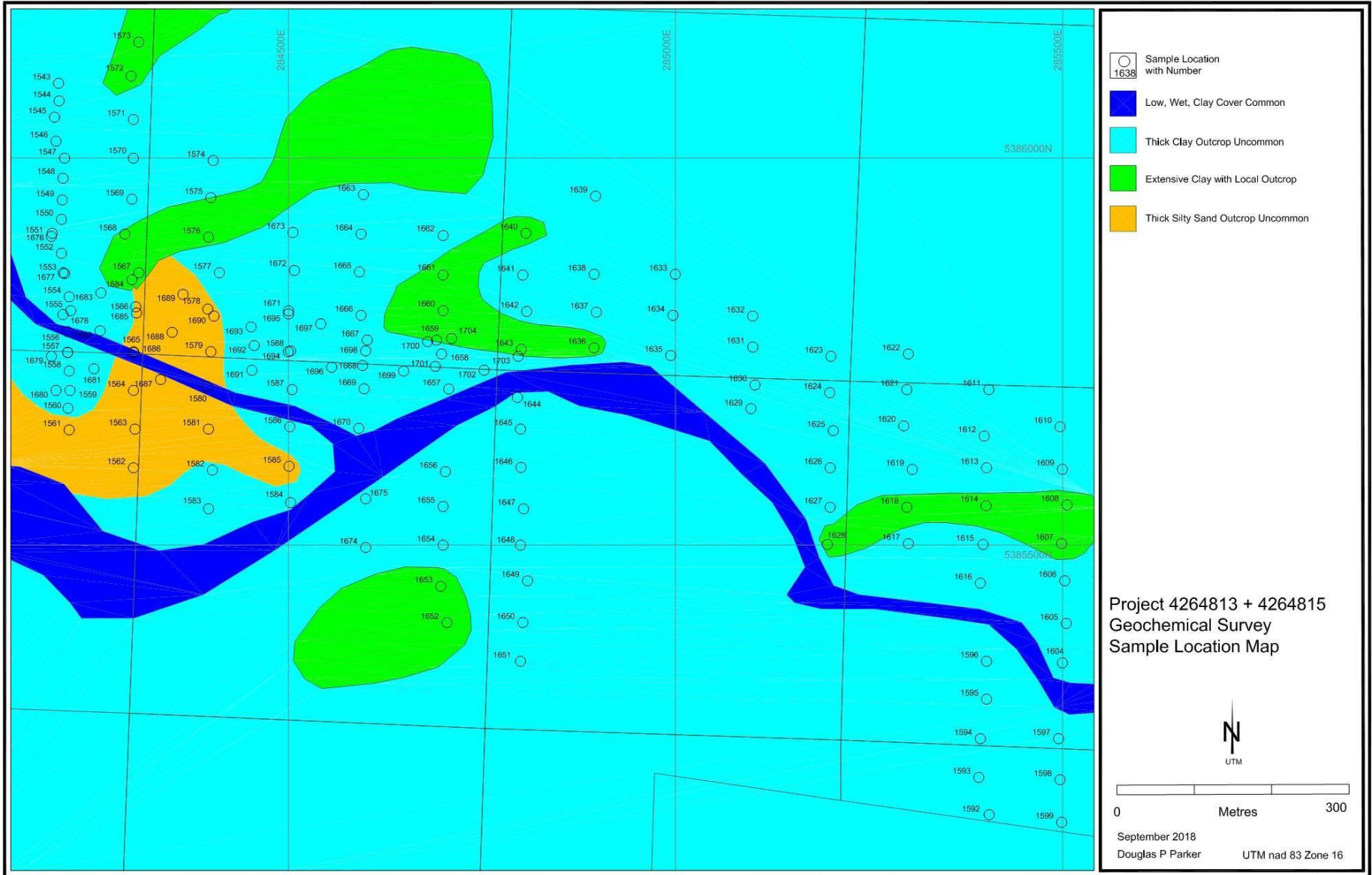
Humus returned sporadic gold values up to 29 ppb and anomalous As and Zn stretching the extent of the survey over 1400 metres long. (See Gold in Humus and Arsenic in Humus Maps)

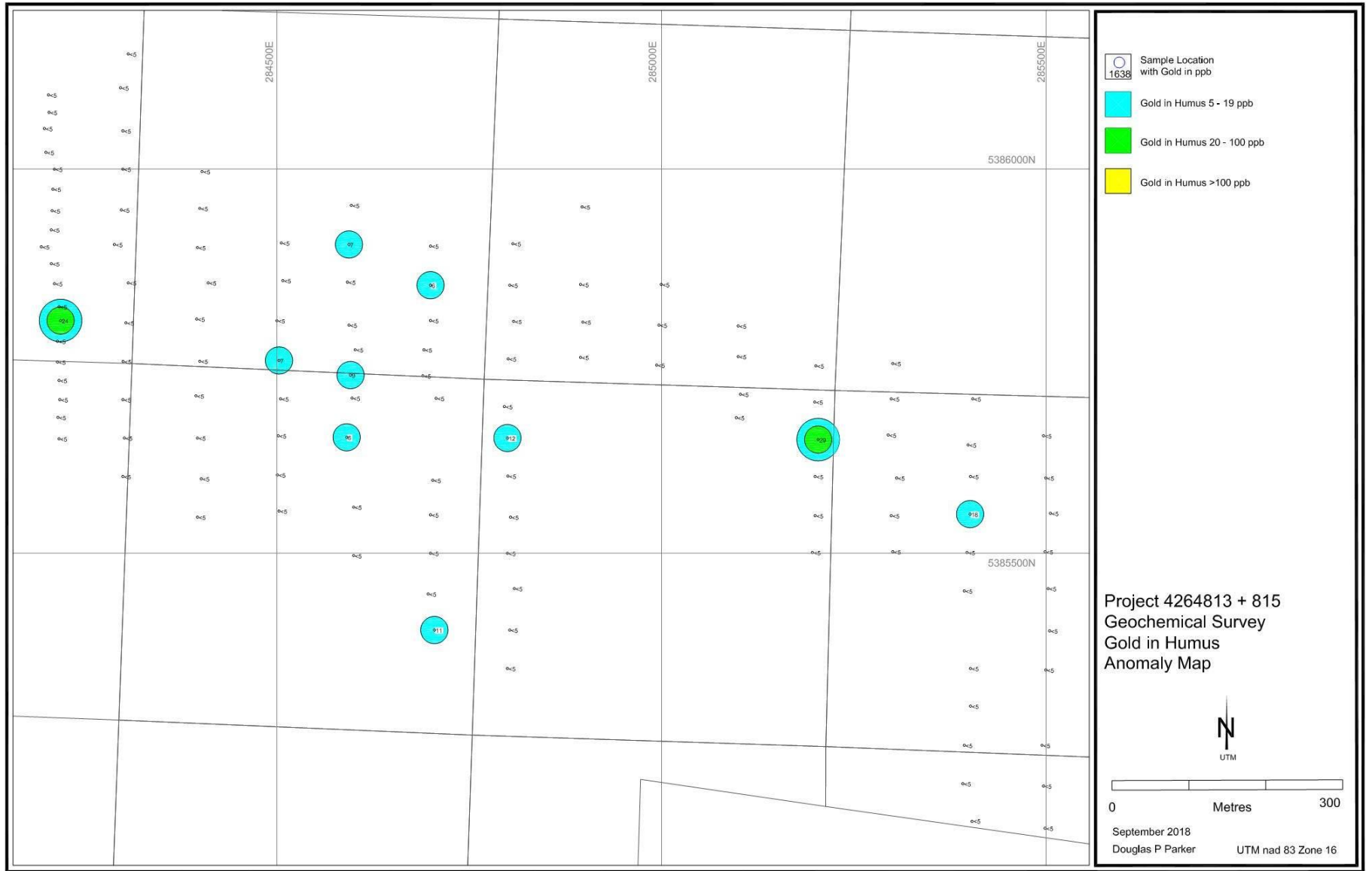
Alder Twig sampling was undertaken in the western part of the survey area over the Wedge Zone and along the projected strike extension westward towards the Kaspar Showing, A well defined gold anomaly (up to 101 ppb) occurs over the Wedge Zone drilling area and continues westward toward the Kaspar zone for >600 metres to the west limit of the survey.

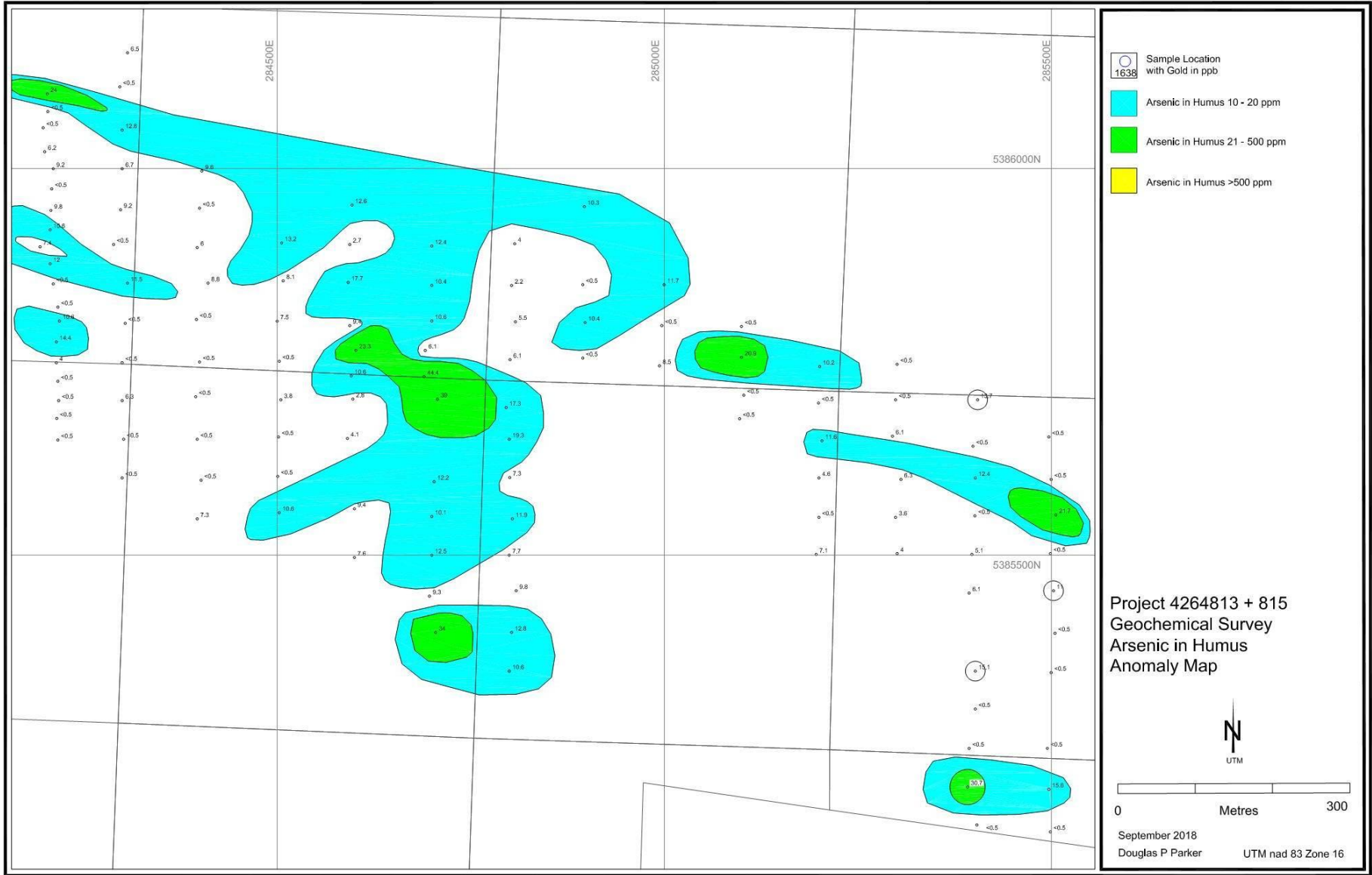
Mechanical Stripping and Rock Sampling

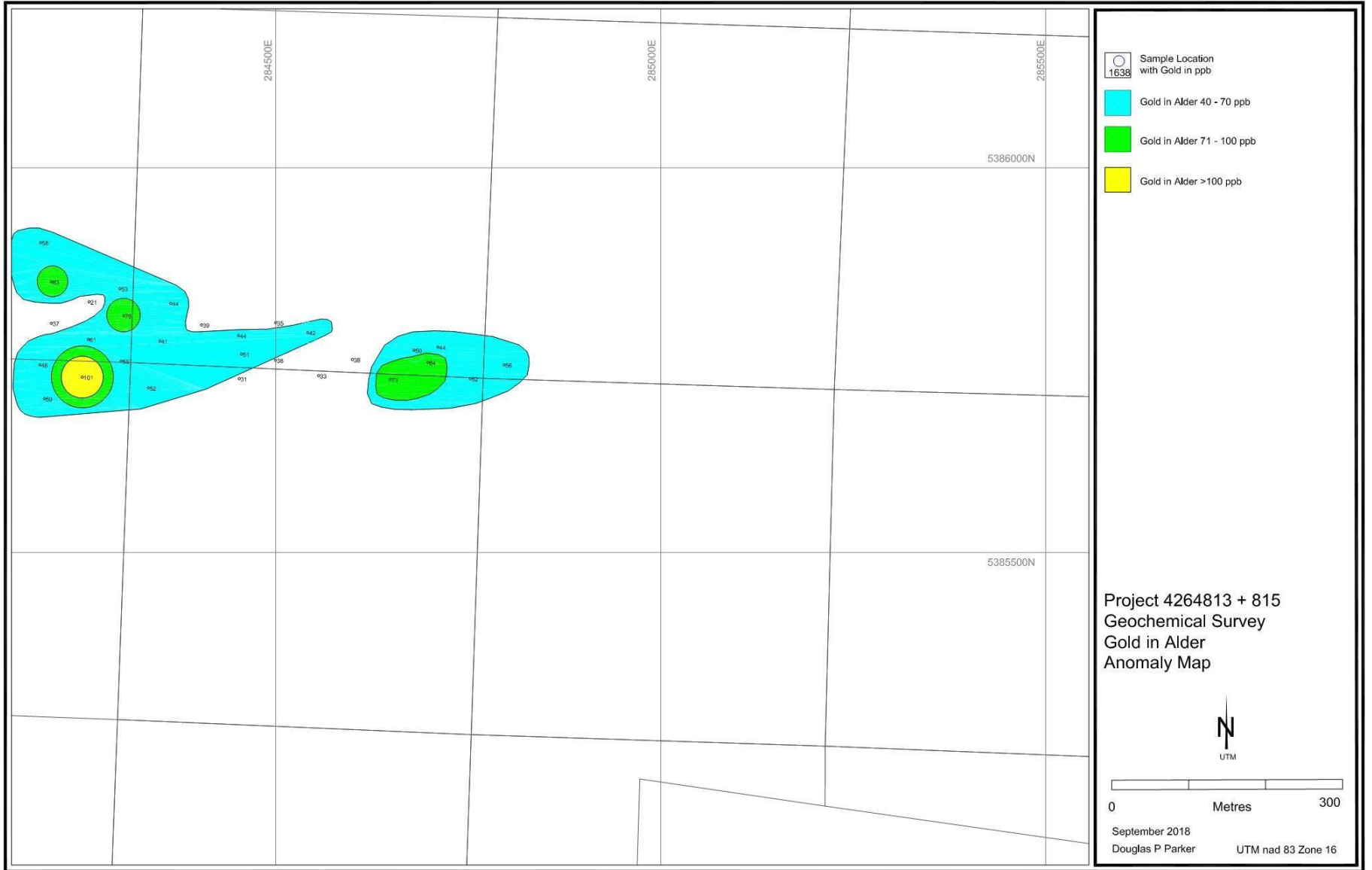
Rock sampling was undertaken in the area north of the Shebandowan River near the Quartz Float Zone and in the areas of the bedrock stripping . (See Stripped Areas Detail Map)

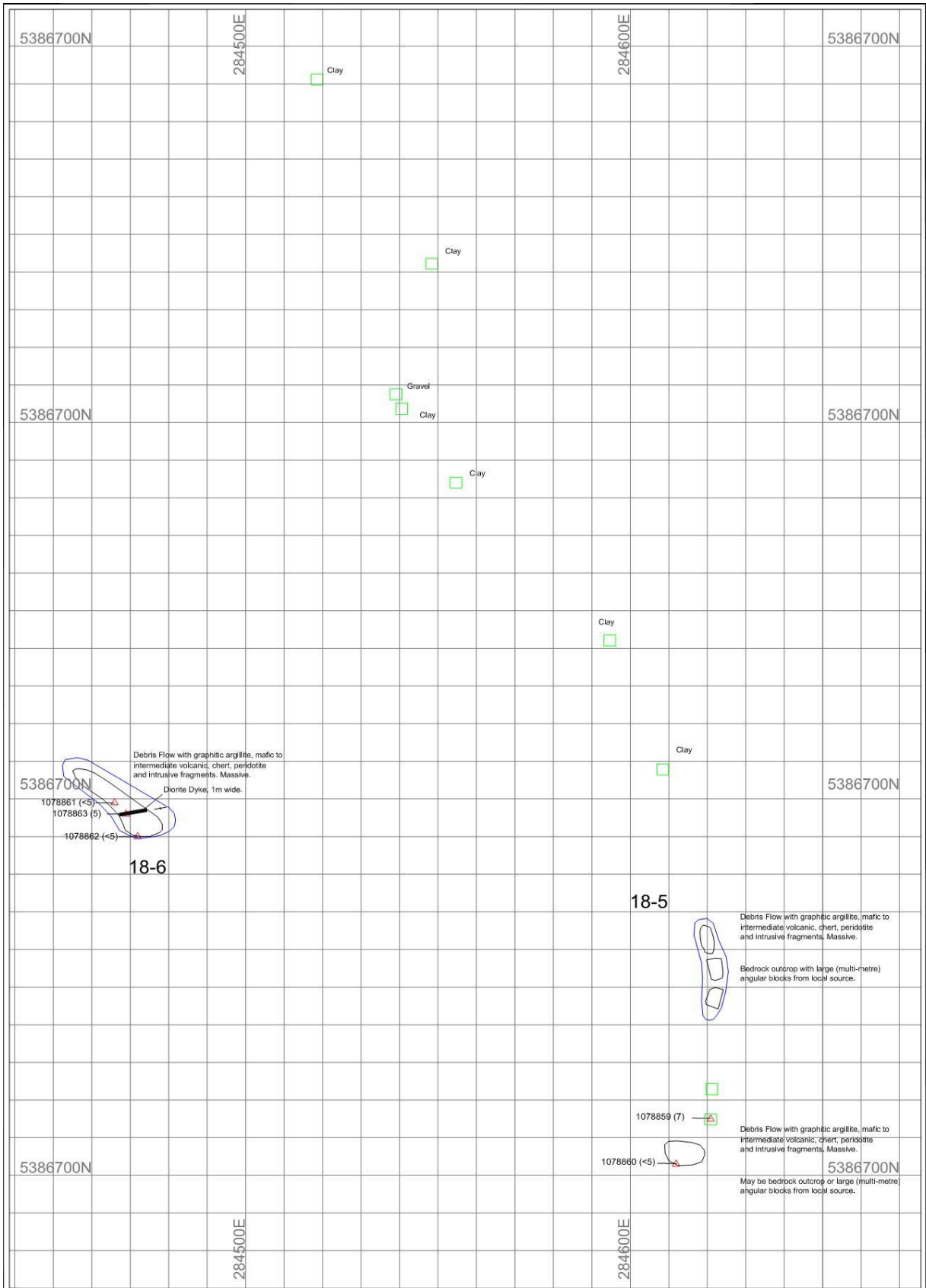
A series of test pits along a 400 metre traverse encountered extensive overburden, predominantly heavy clay. Test pits were backfilled.












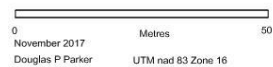
 Area of Overburden Stripping

 Area of Rock Exposure

 Test Pit (Backfilled)

 Rock Sample (Number and Au ppb)

Project 4264813+15
Detailed Map Area of Overburden Stripping



Two small areas were stripped north of the tracks and encountered volcanic derived debris flows with graphitic argillite, volcanic, intrusive and peridotite fragments. Lack of accessible outcrop precluded further bedrock stripping.

9 rock samples were taken from the stripped areas and the Quartz Float Occurrence area. Anomalous gold (up to 1.1 g/T) was returned from large blocks of quartz (up to 1 m) along with anomalous As, Sb and Hg. Samples of the debris flow returned elevated Cr (up to 1420ppm) and Ni (up to 569 ppm).

Mechanical bedrock stripping was performed in 2 locations. The stripped areas are numbered 18-5 and 18-6 indicating the year and order of excavation. Overburden thickness was typically 0.5-1 metre in the stripped areas but dropped off quickly.

The limited budget of the program did not permit systematic mapping or channel sampling of the exposed bedrock.

Sampling was intended to identify the distribution of gold and other metals within specific rock types and structures and associations with alteration and mineralization. Large composite samples, comprised of many small rock chips were taken over the exposed area to represent the geology of that area. Such sampling is referred to as Representative Composite Grabs and are intended to represent a length of sample across strike over the exposed width of the bedrock (i.e. 3 metres across strike over the width of the stripped area).

Selective grabs were taken on occasion to test specific geological features such as quartz veins or sulphide concentration or unmineralized host rocks and are not considered to have a spatial representation.

Stripped Area 18-5

Stripped area 18-5 is approximately 25mx2-3m.

Geology consists of volcanic derived debris flow with mafic to intermediate volcanic, peridotite, intrusive and argillite fragments.

The southern part of the excavated area revealed angular blocks several metres in size and of similar geology but not in situ. The south part of the excavation was backfilled.

2 samples were taken south of 18-5 and slightly anomalous Ni and Cr were returned.

Stripped Area 18-6

Stripped area 18-6 is approximately 30mx2-5m.

Geology consists of volcanic derived debris flow with mafic to intermediate volcanic, peridotite, intrusive and argillite fragments. A 1 metre wide diorite dyke crosses the volcanics.

3 samples were analyzed, anomalous Ni (up to 569ppm) and Cr (up to 1420 ppm) were returned.

Conclusions and Recommendations

This very limited and preliminary exploration program indicates that gold mineralization may be widespread in the project area and that good potential exists for significant base metal mineralization.

Humus appears to effectively indicate gold and arsenic bedrock sources in areas of shallow overburden but appears inhibited where clay horizons are present. Alder Twigs appear to effectively indicate gold in areas of thicker overburden, even where thin clay cover is present.

The presence of large, angular and numerous mineralized quartz vein float in the Quartz Float Occurrence area likely indicates a proximal bedrock source and a significant local mineralizing structure.

Geological mapping and sampling should be undertaken over the property. Additional areas should be prioritized for stripping. All stripped areas should be washed, mapped and sampled.

Additional geochemical sampling should be undertaken to cover the remainder of the property.

Statement of Qualifications

I, Douglas P. Parker do hereby certify:

I am a resident of 365 Lark Street, Thunder Bay, Ontario, P7B 1P4.

I am a graduate of Lakehead University, Thunder Bay, Ontario with an Honours B.Sc. Degree in Geology (1985) and a Certificate in Environmental Assessment (1995). I am a graduate of Confederation College with a Diploma in Environmental Engineering Technology (1995).

I have been an active prospector and employed as a geologist and technical advisor with government and industry since 1985.



Douglas P. Parker

September 12, 2018

Date

APPENDIX I

Selected References

Smyk et al. 2017, Recommendations for Exploration 2016-2017, Ontario Geological Survey, Resident Geologist Program. 84p.

Bajc, A.F. 1999. Results of regional humus and till sampling in the eastern part of the Shebandowan greenstone belt, northwestern Ontario; Ontario Geological Survey, Open File Report 5993, 85p.

Parker, J.R., DISCOVER PROSPECTING: AN INTRODUCTORY PROSPECTING MANUAL, Ontario Prospectors Association, Revised in 2004 by: D.P. Parker and B.V. D'Silva, 203p.

Lavigne, M.J. and Scott, J.F. 1994. Thunder Bay Resident Geologist's District; in Report of Activities 1993, Resident Geologists, Ontario Geological Survey, Open File Report 5892, p.129-148.

Additional references to follow.

NTS	#	AFRI	Name (filed under)	Alternate Name	Property Name	NTS (alt)	Twp or Area	Done	WORK_1	WORK_2	WORK_3	WORK_4	WORK_5	WORK_6	WORK_7	Reference #	Work Rpt Number	Update	GeoOntario
52A12NW	004	52A12NW0005	Leishman, D.	Fenwick, K.		52B09SE*	Blackwell Tp.	96-7	GM							2.17075	W9740-00021		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12NW0005
52A12NW	005	52A12NW0006	Avalon Ventures Lt.	Campbell, I.		52B09NE*	Blackwell Tp.	96-7	PRO							2.17242	W9740-00125		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12NW0006
52A12NW	006	52A10SW2001	Miron, W.				Blackwell & Rickaby Tp.	96	PRO	TR						OP96-331		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A10SW2001
52A12SW	005		Brown, A.G.	Three Brothers Mining Co.	Sutherland-Kasper		Blackwell Tp.	45	ASD	PNC	REP							na	
52A12SW	008		Corporate Oil & Gas Ltd.					84	GL	GC								na	
52A12SW	009	52B09SE0106	Corporate Oil & Gas Ltd./Munroe, R./J.	Huston, D./Weenusk, A./Colon			Blackwell, Laurie & Horne Tp.	84	GL	GC	REP	ASD				2.6681			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0106
52A12SW	010	52A12SW0038	Falconbridge Nickel Mines		Sutherland-Kasper Prop.		Blackwell Tp.	62	DD									VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0038
52A12SW	013	52A12SW0028	INCO (International Nickel)	Canadian Nickel Company Ltd.		52B09SE	Blackwell, Laurie & Duckworth Tp.	66 69	DD	GM						63.2255			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0028
52A12SW	015		Katajisto, K.				Blackwell Tp.	70 77										na	
52A12SW	021a-d	52A12SE8103	Monpre Mining Company Ltd.			52B09SE*	Laurie, Horne & Duckworth Tp.	56-74	GL	DD	REP	PNC	ASD			63a.347		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SE8103
52A12SW	026	52B09SE0121	Noranda Expl. Co. Ltd.***				Laurie Tp.	67	DD									VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0121
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52A12SW	033	52A12SW0025	Stewart, M.	Lundmark, H.	Sutherland-Kasper Prop.		Blackwell & Laurie Tp.	83	GL	GEM						2.5435		cm	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0025
52A12SW	033	52A12SW0024	Stewart, M.	Lundmark, H.	Sutherland-Kasper Prop.		Blackwell & Laurie Tp.	83	GL	GEM						2.5436		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0024
52A12SW	035	Multiple Links	Three Brothers Expl. Ltd.	Brown, A.			Blackwell Tp.	56	DD									VA	
52A12SW	038	52B09SE0032	Canadian Nickel Co. Ltd.	INCO Gold	Gold Creek Option	52B09SE*	Laurie Tp./Batwing Lk./Duckworth	88	GL	GM	ASD					2.10955		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0032
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52A12SW	039	52B09SE0105	Noranda Expl. Co. Ltd.		Kukkee Option		Laurie & Horne Tp.	85	GL	GEM	GM	REP		GR	SS	2.8676		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0105
52A12SW	042	52B09SE0102	Jet Mining Expl. Inc.	Deperry, W./Nabigon, J.			Blackwell Twp./Laurie Tp.	88	AM	AEM						2.11445			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0102
52A12SW	044	52B09NE0020	Noranda Expl. Co. Ltd.		Mabella Property	52B09SE	Blackwell & Conacher Tp.	88-9	GL	GC	ASD					2.11878		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09NE0020
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52A12SW	045	52B09SE0018	MCS Capital Ltd.	Bumbu, C./Martin, J.A.		52B09SE	Laurie, Blackwell, Conacher & Duck.	89	AM	AEM						2.12327			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0018
52A12SW	047	52B09SE0078	INCO Exploration****		Gold Creek Prop. E./W.	52B09SE*	Laurie & Duckworth Tp.	90	GL	TR	DD	ASD				63.6143			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52B09SE0078
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52A12SW	059	52A12SW0023	Hackl, Joe/Hackl, Joey	Green Ice Corp.	Moose Calf Property		Laurie Tp.	96	IP	GEM	GM					2.16849			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0023
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52A12SW	077	52A12SW0049	Wing, A./Wing Resources	Wallace, G.	Kaspar Property		Blackwell Tp.	96-7	ASD	GL	IP	PRO				2.17977	W9740-01124		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0049

52A12SW	084	52A12SW0050	Stares, S.		BLT Property	52B09SE	Blackwell & Laurie Tp.	97	ASD	GL	GM	IP	LC	PRO		2.17984	W9740-01111		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0050
52A12SW	096	52A12SW2013	Canadian Nickel Co. Ltd.			52B09SE	Laurie Tp.	98	GEM	GM						2.18829	W9840-00586		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2013
52A12SW	101	52A12SW2015	Hackl, J. & J.		Moose Calf Property	52B09SE	Laurie Tp.	97	ASD	DD						2.19152	W9940-00002		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2015
52A12SW	110		Wing, Allan J.		Blackwell Tp. Claims		Blackwell Tp.	1999	PRO							OP99-433		na	
52A12SW	113	52A12SW0075	Noranda Exploration Co. Ltd.		K Group		Blackwell Tp./Lauri Tp.	1978	GL	GC	GM	GEM				2.2097		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0075
52A12SW	113	52B09SE0110	Noranda Exploration Co. Ltd.		K Group		Blackwell Tp./Lauri Tp.	1978	GL	GC	GM	GEM				2.2674		VA	
52A12SW	123	52A12SW2032	RJK Explorations Ltd.		Wedge Project		Laurie & Blackwell Tp.	2003	DD							2.26643	W0340.01787		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2032
52A12SW	128	Regional Office	RJK Explorations Ltd.	Hinterland Exploration Ltd.	Wedge Project		Laurie & Blackwell Tps.	2003	ASD	DD	REP					2.28916	W0440.01922	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=2000000780
52A12SW	130	2000000780	RJK Explorations Ltd.	Hinterland Exploration Ltd.	Wedge Project		Laurie & Blackwell Tps.	2003	DD	ASD	REP					2.29751	W0540.00731	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=2000001186
52A12SW	136	20000001186	RJK Explorations Ltd. Hinterland Metals Inc.		Shabaqua Gold Project	52B09SE	Laurie Tp	2005	AEM	AM						2.31635	W0640.00445	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006401
52A12SW	171	20000006401	North American Palladium Ltd. *CD*	Fenwick, K	Sand Lake Property	52B09SE	Laurie Twp.	2011	AM							2.48233	W1140.00952	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006401

APPENDIX II

Mechanical Stripping Invoice and Timesheet

APPENDIX III

Assay Certificates



Date Submitted: 18-Jun-18
Invoice No.: A18-07796
Invoice Date: 25-Jul-18
Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

97 Humus samples were submitted for analysis.

The following analytical package(s) were requested:

Code 2C Ash Vegetation INAA(INAAGEO)

Code B3-Ash Report Ash Report

REPORT **A18-07796**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Footnote: K and Na are not reportable due to delay in counting

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized and somewhat cursive, written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A18-07796

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	50	5	0.1	0.1	2	300	0.5	0.1	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1543	< 5	< 2	24.0	620	20	< 0.2	43	75	< 0.5	6.13	5.0	< 1	< 2	< 2	< 50	220	< 0.1	16.4	< 2	< 300	< 0.5	12.2	< 0.1
1544	< 5	< 2	< 0.5	470	13	< 0.2	37	79	7.0	5.78	7.5	< 1	< 2	< 2	< 50	141	< 0.1	16.9	< 2	< 300	< 0.5	10.4	< 0.1
1545	< 5	< 2	< 0.5	450	38	< 0.2	67	71	9.0	6.32	4.6	< 1	< 2	< 2	< 50	< 5	1.7	15.9	< 2	< 300	< 0.5	11.7	8.3
1546	< 5	< 2	6.2	880	< 1	< 0.2	38	139	8.0	7.75	4.5	< 1	< 2	44	< 50	< 5	1.3	18.1	< 2	< 300	< 0.5	12.8	2.9
1547	< 5	< 2	9.2	490	< 1	< 0.2	36	77	8.0	6.12	3.7	< 1	< 2	< 2	< 50	88	0.8	19.5	< 2	< 300	< 0.5	13.3	2.9
1548	< 5	< 2	< 0.5	690	36	< 0.2	44	64	5.0	5.90	5.9	< 1	< 2	< 2	< 50	81	0.8	17.5	< 2	< 300	< 0.5	11.7	4.8
1549	< 5	< 2	9.8	800	19	6.0	32	66	6.0	5.77	4.3	< 1	< 2	< 2	< 50	< 5	1.5	16.4	< 2	< 300	< 0.5	12.8	6.9
1550	< 5	< 2	10.6	450	14	< 0.2	51	58	9.0	5.87	7.1	< 1	< 2	< 2	< 50	208	0.8	15.1	< 2	< 300	< 0.5	11.8	3.0
1551	< 5	< 2	7.4	580	< 1	< 0.2	43	61	4.0	5.21	8.0	< 1	< 2	< 2	< 50	104	1.2	13.5	< 2	< 300	< 0.5	12.7	< 0.1
1552	< 5	< 2	12.0	< 50	< 1	< 0.2	44	71	5.0	5.11	4.8	< 1	< 2	< 2	< 50	105	1.1	13.0	< 2	< 300	< 0.5	14.1	4.3
1553	< 5	< 2	< 0.5	1160	29	< 0.2	43	63	6.0	5.34	6.7	< 1	< 2	< 2	< 50	171	< 0.1	15.1	< 2	< 300	< 0.5	11.8	< 0.1
1554	< 5	< 2	< 0.5	600	< 1	< 0.2	< 1	107	7.0	5.32	3.7	< 1	< 2	< 2	< 50	68	0.3	13.9	< 2	< 300	< 0.5	7.1	2.7
1555	24	< 2	10.6	630	38	10.0	21	87	4.0	4.43	3.9	< 1	< 2	< 2	< 50	67	1.3	13.3	< 2	< 300	< 0.5	9.3	< 0.1
1556	< 5	< 2	14.4	730	42	9.0	47	96	< 0.5	7.64	4.7	< 1	< 2	< 2	< 50	< 5	< 0.1	15.1	< 2	< 300	< 0.5	9.0	< 0.1
1557	< 5	< 2	4.0	830	15	< 0.2	30	91	8.0	4.95	3.5	< 1	< 2	< 2	< 50	< 5	1.2	13.9	< 2	< 300	< 0.5	11.9	2.2
1558	< 5	< 2	< 0.5	600	< 1	< 0.2	51	88	7.0	5.51	4.5	< 1	< 2	< 2	< 50	127	0.7	14.6	< 2	< 300	< 0.5	11.2	7.2
1559	< 5	< 2	< 0.5	590	10	< 0.2	23	65	< 0.5	3.65	2.4	2	< 2	< 2	< 50	< 5	1.5	12.0	< 2	< 300	< 0.5	7.0	3.4
1560	< 5	< 2	< 0.5	480	16	< 0.2	22	74	< 0.5	4.11	2.5	< 1	< 2	< 2	< 50	122	1.1	14.4	< 2	< 300	< 0.5	5.0	< 0.1
1561	< 5	< 2	< 0.5	360	7	< 0.2	26	101	2.0	4.26	2.4	< 1	< 2	< 2	< 50	< 5	< 0.1	14.6	< 2	< 300	< 0.5	7.3	< 0.1
1562	< 5	< 2	< 0.5	360	< 1	< 0.2	18	78	1.0	3.26	2.5	< 1	< 2	< 2	< 50	< 5	< 0.1	11.4	< 2	800	< 0.5	3.9	< 0.1
1563	< 5	< 2	< 0.5	400	9	< 0.2	18	81	< 0.5	3.14	2.3	< 1	< 2	< 2	< 50	< 5	0.5	12.0	< 2	1500	< 0.5	2.8	< 0.1
1564	< 5	< 2	6.3	450	< 1	< 0.2	41	89	9.0	5.57	3.9	< 1	< 2	< 2	< 50	< 5	0.7	15.1	< 2	< 300	< 0.5	12.4	< 0.1
1565	< 5	< 2	< 0.5	450	< 1	< 0.2	24	87	< 0.5	4.18	3.0	1	< 2	< 2	< 50	< 5	< 0.1	13.6	< 2	< 300	< 0.5	5.4	< 0.1
1566	< 5	< 2	< 0.5	370	< 1	< 0.2	27	105	4.0	4.32	6.9	< 1	< 2	< 2	< 50	122	< 0.1	13.7	< 2	< 300	< 0.5	7.5	< 0.1
1567	< 5	< 2	11.5	< 50	20	< 0.2	29	93	5.0	4.84	5.0	< 1	< 2	< 2	< 50	< 5	1.2	16.5	< 2	< 300	< 0.5	7.2	4.4
1568	< 5	< 2	< 0.5	670	< 1	< 0.2	25	84	< 0.5	4.55	5.3	3	< 2	< 2	< 50	< 5	< 0.1	13.1	< 2	< 300	< 0.5	5.0	< 0.1
1569	< 5	< 2	9.2	650	< 1	< 0.2	39	105	8.0	5.67	6.0	< 1	< 2	< 2	< 50	141	1.1	14.4	< 2	< 300	< 0.5	10.4	< 0.1
1570	< 5	< 2	6.7	< 50	46	< 0.2	49	118	< 0.5	6.61	< 0.5	< 1	< 2	< 2	< 50	107	2.8	22.6	< 2	< 300	< 0.5	16.9	4.1
1571	< 5	< 2	12.8	270	< 1	< 0.2	35	101	5.0	5.81	4.0	< 1	< 2	< 2	< 50	< 5	1.2	15.6	< 2	< 300	< 0.5	12.5	< 0.1
1572	< 5	< 2	< 0.5	730	10	4.0	32	99	5.0	4.96	4.6	< 1	< 2	< 2	< 50	56	< 0.1	12.2	< 2	< 300	< 0.5	7.4	< 0.1
1573	< 5	< 2	6.5	530	< 1	< 0.2	44	71	5.0	4.63	6.6	< 1	< 2	< 2	< 50	102	1.0	11.2	< 2	< 300	< 0.5	8.9	< 0.1
1574	< 5	< 2	9.6	630	< 1	< 0.2	32	124	< 0.5	7.30	< 0.5	< 1	< 2	< 2	< 50	152	< 0.1	19.5	< 2	< 300	< 0.5	13.5	5.6
1575	< 5	< 2	< 0.5	690	20	< 0.2	37	103	7.0	5.94	4.2	< 1	< 2	< 2	< 50	< 5	1.4	16.0	< 2	< 300	< 0.5	11.9	< 0.1
1576	< 5	< 2	6.0	490	< 1	< 0.2	47	100	8.0	5.38	5.1	< 1	< 2	< 2	< 50	140	0.5	13.4	< 2	< 300	< 0.5	12.0	< 0.1
1577	< 5	< 2	8.8	480	20	< 0.2	43	88	5.0	5.34	7.2	< 1	< 2	< 2	< 50	67	1.0	14.1	< 2	< 300	< 0.5	10.8	6.4
1578	< 5	< 2	< 0.5	410	< 1	3.0	24	89	3.0	4.55	3.3	< 1	< 2	< 2	< 50	125	< 0.1	17.2	< 2	< 300	< 0.5	4.2	< 0.1
1579	< 5	< 2	< 0.5	440	9	< 0.2	32	111	< 0.5	4.91	5.8	< 1	< 2	< 2	< 50	131	< 0.1	14.1	< 2	< 300	< 0.5	7.8	< 0.1
1580	< 5	< 2	< 0.5	770	14	< 0.2	43	94	< 0.5	6.36	4.8	< 1	< 2	< 2	< 50	139	< 0.1	16.4	< 2	< 300	< 0.5	14.5	2.7
1581	< 5	< 2	< 0.5	510	23	< 0.2	35	106	< 0.5	4.44	< 0.5	< 1	< 2	< 2	< 50	< 5	< 0.1	13.2	< 2	< 300	< 0.5	9.3	< 0.1
1582	< 5	< 2	< 0.5	660	16	< 0.2	< 1	89	< 0.5	4.51	6.5	< 1	< 2	< 2	< 50	173	2.3	12.8	< 2	< 300	< 0.5	10.2	6.0
1583	< 5	< 2	7.3	530	< 1	< 0.2	30	96	5.0	4.64	5.9	< 1	< 2	< 2	< 50	< 5	2.1	12.1	< 2	800	< 0.5	7.2	3.2

Results

Activation Laboratories Ltd.

Report: A18-07796

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	50	5	0.1	0.1	2	300	0.5	0.1	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1584	< 5	< 2	10.6	310	19	6.0	31	100	7.0	4.99	4.3	< 1	< 2	< 2	< 50	177	< 0.1	16.6	< 2	< 300	< 0.5	9.7	3.1
1585	< 5	< 2	< 0.5	590	16	< 0.2	42	119	7.0	5.55	4.6	< 1	< 2	< 2	< 50	156	< 0.1	13.9	< 2	900	< 0.5	11.0	< 0.1
1586	< 5	< 2	< 0.5	340	< 1	3.0	31	107	< 0.5	6.50	2.6	< 1	< 2	< 2	< 50	< 5	< 0.1	21.0	< 2	< 300	< 0.5	16.0	3.5
1587	< 5	< 2	3.8	680	27	6.0	40	90	6.0	4.83	3.1	< 1	< 2	< 2	< 50	< 5	< 0.1	13.0	< 2	< 300	< 0.5	10.4	< 0.1
1588	7	< 2	< 0.5	410	18	6.0	17	78	< 0.5	3.82	3.8	< 1	< 2	< 2	< 50	173	< 0.1	12.9	< 2	< 300	< 0.5	6.2	< 0.1
1589	17	< 2	< 0.5	1060	29	< 0.2	29	90	5.0	4.91	4.4	< 1	< 2	< 2	< 50	< 5	1.5	14.5	< 2	< 300	< 0.5	9.9	< 0.1
1590	< 5	< 2	12.8	580	< 1	< 0.2	32	107	10.0	7.22	4.7	< 1	< 2	< 2	< 50	129	1.3	22.1	< 2	< 300	< 0.5	16.0	1.8
1591	< 5	< 2	5.1	600	< 1	5.0	20	102	< 0.5	4.80	4.2	< 1	< 2	< 2	< 50	< 5	< 0.1	14.3	< 2	< 300	< 0.5	5.7	< 0.1
1592	< 5	< 2	< 0.5	770	31	6.0	35	71	< 0.5	4.75	3.2	< 1	< 2	< 2	< 50	94	0.6	11.9	< 2	< 300	< 0.5	10.2	< 0.1
1593	< 5	< 2	30.7	740	58	< 0.2	28	74	< 0.5	4.92	3.2	< 1	< 2	< 2	< 50	< 5	3.5	11.2	< 2	< 300	< 0.5	8.2	< 0.1
1594	< 5	< 2	< 0.5	330	< 1	< 0.2	35	78	< 0.5	4.86	4.2	< 1	< 2	< 2	< 50	149	< 0.1	14.3	< 2	< 300	< 0.5	10.0	3.0
1595	< 5	< 2	< 0.5	560	20	< 0.2	39	84	8.0	5.49	2.8	< 1	< 2	< 2	< 50	165	0.8	15.7	< 2	< 300	< 0.5	12.9	< 0.1
1596	< 5	< 2	15.1	1070	48	10.0	18	75	< 0.5	5.04	3.0	< 1	< 2	< 2	< 50	167	3.7	12.8	< 2	< 300	< 0.5	11.4	< 0.1
1597	< 5	< 2	< 0.5	880	32	< 0.2	36	107	8.0	4.83	4.5	< 1	< 2	< 2	< 50	< 5	1.4	12.3	< 2	< 300	< 0.5	10.4	4.5
1598	< 5	< 2	15.6	620	42	< 0.2	26	118	< 0.5	6.62	3.8	< 1	< 2	< 2	< 50	179	2.7	14.2	< 2	< 300	< 0.5	11.2	12.4
1599	< 5	< 2	< 0.5	390	17	< 0.2	24	89	< 0.5	4.54	6.1	< 1	< 2	< 2	< 50	116	0.4	14.0	< 2	< 300	< 0.5	5.7	< 0.1
1600	< 5	< 2	< 0.5	220	< 1	< 0.2	40	99	< 0.5	4.86	3.9	< 1	< 2	< 2	< 50	175	0.6	14.6	< 2	< 300	< 0.5	9.5	2.6
1601	< 5	< 2	36.1	920	33	< 0.2	73	111	8.0	5.84	4.4	< 1	< 2	< 2	< 50	< 5	3.2	16.3	< 2	< 300	< 0.5	9.0	< 0.1
1602	< 5	< 2	< 0.5	540	27	3.0	25	104	< 0.5	4.77	5.9	< 1	< 2	< 2	< 50	95	1.3	12.9	< 2	300	< 0.5	7.3	< 0.1
1603	< 5	< 2	14.1	600	< 1	< 0.2	34	90	7.0	5.24	6.4	< 1	< 2	< 2	< 50	< 5	1.2	12.5	< 2	< 300	< 0.5	9.0	< 0.1
1604	< 5	< 2	< 0.5	540	10	< 0.2	27	106	4.0	4.80	3.8	< 1	< 2	< 2	< 50	< 5	0.4	13.9	< 2	400	< 0.5	7.0	< 0.1
1605	< 5	< 2	< 0.5	630	23	< 0.2	39	105	8.0	6.16	4.1	< 1	< 2	< 2	< 50	154	0.9	16.0	< 2	< 300	< 0.5	12.6	< 0.1
1606	< 5	< 2	11.0	490	< 1	< 0.2	28	96	11.0	5.53	4.3	< 1	< 2	< 2	< 50	< 5	1.5	13.8	< 2	< 300	< 0.5	11.1	< 0.1
1607	< 5	< 2	< 0.5	330	< 1	< 0.2	40	88	< 0.5	5.10	4.4	< 1	< 2	< 2	< 50	214	0.7	15.5	< 2	< 300	< 0.5	11.9	< 0.1
1608	< 5	< 2	21.7	430	< 1	3.0	32	95	4.0	5.61	4.7	< 1	< 2	< 2	< 50	< 5	< 0.1	18.0	< 2	< 300	< 0.5	5.3	< 0.1
1609	< 5	< 2	< 0.5	350	< 1	< 0.2	37	72	6.0	4.25	5.2	< 1	< 2	< 2	< 50	122	0.7	12.7	< 2	< 300	< 0.5	11.0	< 0.1
1610	< 5	< 2	< 0.5	680	< 1	< 0.2	36	99	8.0	5.20	4.9	< 1	< 2	< 2	< 50	115	1.1	15.2	< 2	< 300	< 0.5	13.2	< 0.1
1611	< 5	< 2	13.7	650	20	< 0.2	31	83	6.0	4.54	5.6	< 1	< 2	< 2	< 50	114	1.9	13.3	< 2	< 300	< 0.5	10.4	2.3
1612	< 5	< 2	< 0.5	520	< 1	< 0.2	33	101	7.0	4.48	4.6	< 1	< 2	< 2	< 50	94	0.5	15.5	< 2	< 300	< 0.5	9.0	< 0.1
1613	< 5	< 2	12.4	540	< 1	< 0.2	35	78	< 0.5	4.65	4.2	< 1	< 2	< 2	< 50	< 5	1.0	13.3	< 2	< 300	< 0.5	9.6	< 0.1
1614	18	< 2	< 0.5	380	< 1	< 0.2	22	101	< 0.5	3.49	4.4	< 1	< 2	< 2	< 50	33	< 0.1	12.7	< 2	< 300	< 0.5	5.0	1.7
1615	< 5	< 2	5.1	390	< 1	4.0	28	81	3.0	3.38	4.5	< 1	< 2	< 2	< 50	61	< 0.1	12.2	< 2	< 300	< 0.5	5.8	2.8
1616	< 5	< 2	6.1	1110	151	14.0	< 1	74	3.0	3.38	< 0.5	< 1	< 2	< 2	< 50	< 5	2.1	8.7	< 2	< 300	< 0.5	7.6	< 0.1
1617	< 5	< 2	4.0	420	13	< 0.2	30	94	3.0	4.30	3.4	< 1	< 2	< 2	< 50	< 5	0.8	14.6	< 2	< 300	< 0.5	5.7	< 0.1
1618	< 5	< 2	3.6	530	< 1	3.0	17	99	< 0.5	4.00	7.4	< 1	< 2	< 2	< 50	< 5	< 0.1	12.6	< 2	< 300	< 0.5	6.0	< 0.1
1619	< 5	< 2	6.3	660	< 1	< 0.2	30	100	< 0.5	6.17	6.2	< 1	< 2	< 2	< 50	189	< 0.1	16.9	< 2	< 300	< 0.5	13.0	6.3
1620	< 5	< 2	6.1	860	13	< 0.2	26	89	7.0	4.95	8.8	< 1	< 2	< 2	< 50	195	1.1	13.3	< 2	< 300	< 0.5	11.5	2.8
1621	< 5	< 2	< 0.5	840	< 1	< 0.2	21	73	< 0.5	4.51	6.4	< 1	< 2	< 2	< 50	130	1.6	12.0	< 2	< 300	< 0.5	11.0	1.9
1622	< 5	< 2	< 0.5	690	< 1	< 0.2	38	107	7.0	5.71	7.6	< 1	< 2	< 2	< 50	162	0.8	15.6	< 2	< 300	< 0.5	12.9	< 0.1
1623	< 5	< 2	10.2	650	< 1	< 0.2	30	94	6.0	5.37	6.1	< 1	< 2	< 2	< 50	121	0.7	13.3	< 2	< 300	< 0.5	11.0	< 0.1
1624	< 5	< 2	< 0.5	780	< 1	< 0.2	27	105	8.0	6.35	5.1	< 1	< 2	< 2	< 50	330	< 0.1	19.3	< 2	< 300	< 0.5	12.8	4.3
1625	29	< 2	11.6	690	11	< 0.2	35	109	5.0	5.18	5.9	< 1	< 2	< 2	750	< 5	1.0	14.4	< 2	< 300	< 0.5	14.9	2.1

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	50	5	0.1	0.1	2	300	0.5	0.1	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1626	< 5	< 2	4.6	560	< 1	< 0.2	31	116	8.0	6.13	5.5	< 1	< 2	< 2	< 50	< 5	< 0.1	16.6	< 2	< 300	< 0.5	11.3	< 0.1
1627	< 5	< 2	< 0.5	460	< 1	< 0.2	35	94	5.0	5.26	7.1	< 1	< 2	< 2	< 50	191	1.1	14.6	< 2	< 300	< 0.5	10.5	2.9
1628	< 5	< 2	7.1	460	< 1	< 0.2	23	264	3.0	5.19	5.5	< 1	< 2	< 2	< 50	82	< 0.1	13.8	< 2	< 300	< 0.5	5.4	< 0.1
1629	< 5	< 2	< 0.5	< 50	102	16.0	21	34	< 0.5	3.49	< 0.5	< 1	< 2	< 2	< 50	39	1.1	8.5	< 2	< 300	< 0.5	5.8	< 0.1
1630	< 5	< 2	< 0.5	550	37	< 0.2	32	73	< 0.5	4.98	3.7	< 1	< 2	< 2	< 50	63	0.7	14.5	< 2	< 300	< 0.5	11.6	< 0.1
1631	< 5	< 2	20.9	< 50	39	< 0.2	26	77	< 0.5	4.92	4.3	< 1	< 2	< 2	< 50	< 5	3.3	13.7	< 2	< 300	< 0.5	12.7	< 0.1
1632	< 5	< 2	< 0.5	730	< 1	< 0.2	42	70	5.0	5.17	5.0	< 1	< 2	< 2	310	58	< 0.1	13.6	< 2	< 300	< 0.5	11.8	< 0.1
1633	< 5	< 2	11.7	990	33	5.0	38	94	6.0	5.65	4.5	< 1	< 2	< 2	< 50	70	1.1	14.0	< 2	< 300	< 0.5	8.5	< 0.1
1634	< 5	< 2	< 0.5	610	19	4.0	31	62	10.0	4.91	6.7	2	< 2	< 2	< 50	< 5	2.3	13.6	< 2	< 300	< 0.5	10.6	< 0.1
1635	< 5	< 2	8.5	570	< 1	< 0.2	30	61	6.0	4.41	5.5	< 1	< 2	< 2	< 50	87	1.3	11.2	< 2	< 300	< 0.5	10.8	4.9
1636	< 5	< 2	< 0.5	1370	86	26.0	15	45	< 0.5	2.32	< 0.5	< 1	< 2	< 2	< 50	< 5	1.6	6.4	< 2	< 300	< 0.5	3.8	< 0.1
1637	< 5	< 2	10.4	1310	70	12.0	34	85	< 0.5	3.59	3.9	< 1	< 2	< 2	< 50	95	1.4	9.4	< 2	< 300	< 0.5	9.7	< 0.1
1638	< 5	< 2	< 0.5	520	< 1	11.5	31	69	< 0.5	4.26	4.1	< 1	< 2	< 2	< 50	123	1.2	11.2	< 2	< 300	< 0.5	8.4	< 0.1
1639	< 5	< 2	10.3	510	< 1	< 0.2	35	101	5.0	4.71	7.5	< 1	< 2	< 2	< 50	170	< 0.1	12.8	< 2	< 300	< 0.5	11.0	< 0.1

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%
Lower Limit	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05				
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none
1543	< 1	< 50	19.7	64	< 5	3.1	< 0.01	< 0.5	2.50	0.17	1.07	75.0	42.5	56.7
1544	< 1	< 50	20.8	64	15	3.7	< 0.01	< 0.5	2.30	0.28	1.12	73.8	42.6	57.7
1545	< 1	330	32.6	133	28	5.4	1.70	< 0.5	3.50	0.35	0.840	74.9	26.0	34.8
1546	< 1	180	24.1	68	16	4.0	< 0.01	< 0.5	2.60	0.29	1.21	72.6	45.8	63.1
1547	< 1	< 50	37.4	92	43	6.6	1.50	< 0.5	2.80	0.30	1.15	73.2	46.4	63.5
1548	< 1	< 50	38.5	116	41	6.6	2.10	< 0.5	2.90	0.44	1.00	72.7	45.8	63.0
1549	< 1	120	25.0	58	13	3.9	0.80	< 0.5	2.70	0.34	0.937	70.0	19.1	27.3
1550	< 1	< 50	24.4	78	< 5	4.1	< 0.01	< 0.5	2.80	0.27	1.21	74.6	52.0	69.7
1551	< 1	< 50	22.8	106	< 5	3.6	< 0.01	< 0.5	2.10	0.33	1.03	70.2	33.3	47.5
1552	< 1	< 50	23.0	59	< 5	3.2	< 0.01	< 0.5	2.90	0.21	1.02	74.4	41.2	55.3
1553	< 1	< 50	23.6	59	28	3.5	< 0.01	< 0.5	2.70	0.19	0.850	70.3	30.5	43.3
1554	< 1	< 50	19.5	49	18	2.5	0.70	< 0.5	1.40	0.20	1.36	73.8	54.5	73.8
1555	< 1	740	32.0	44	30	5.1	< 0.01	< 0.5	< 0.05	0.41	0.545	70.4	10.2	14.5
1556	< 1	720	67.2	145	64	10.7	< 0.01	< 0.5	3.00	0.59	0.594	70.5	13.8	19.6
1557	< 1	< 50	29.2	70	< 5	4.3	1.20	< 0.5	2.20	0.17	0.887	70.5	33.9	48.1
1558	< 1	< 50	39.0	63	50	5.2	1.60	1.0	3.00	0.27	0.712	70.5	23.7	33.6
1559	< 1	< 50	18.7	38	< 5	2.4	< 0.01	< 0.5	1.50	0.25	1.03	70.8	23.5	33.2
1560	< 1	540	21.8	44	< 5	3.2	1.30	< 0.5	1.60	0.12	0.718	71.1	11.3	15.9
1561	< 1	< 50	18.3	30	17	2.9	0.80	< 0.5	1.60	0.15	1.40	72.4	49.8	68.8
1562	< 1	< 50	11.5	16	< 5	1.6	< 0.01	< 0.5	1.20	0.17	1.96	70.7	59.5	84.1
1563	< 1	< 50	11.7	22	< 5	1.9	0.90	< 0.5	1.30	0.19	1.38	72.9	32.0	43.9
1564	< 1	< 50	30.2	70	< 5	4.4	1.20	< 0.5	2.50	0.26	1.15	70.3	48.0	68.2
1565	< 1	< 50	7.9	31	9	1.9	0.60	< 0.5	1.10	0.16	1.81	70.9	40.1	56.6
1566	< 1	< 50	12.7	50	15	3.0	1.20	< 0.5	1.30	0.27	1.14	71.6	35.6	49.7
1567	< 1	< 50	13.9	33	20	3.2	1.20	< 0.5	2.30	0.26	0.980	71.2	38.9	54.7
1568	< 1	210	8.9	41	< 5	2.1	< 0.01	< 0.5	1.50	0.16	0.866	71.6	21.4	29.9
1569	< 1	< 50	17.2	57	15	4.1	1.40	< 0.5	2.50	0.38	0.865	71.4	38.6	54.0
1570	< 1	< 50	51.4	212	63	13.9	3.50	< 0.5	6.00	0.65	0.638	72.1	18.9	26.2
1571	< 1	< 50	24.5	104	20	5.8	1.60	< 0.5	2.70	0.32	0.800	73.1	34.7	47.5
1572	< 1	< 50	10.0	43	14	2.3	< 0.01	< 0.5	1.50	0.25	1.06	72.2	33.2	46.1
1573	< 1	120	12.4	40	18	2.4	< 0.01	< 0.5	2.30	0.25	1.02	70.4	34.7	49.2
1574	< 1	< 50	27.5	117	37	6.6	2.00	< 0.5	3.55	0.43	0.833	71.0	26.9	37.9
1575	< 1	260	30.0	70	16	5.2	1.60	< 0.5	2.90	0.34	0.751	72.6	38.8	53.4
1576	< 1	< 50	19.4	54	22	3.2	< 0.01	< 0.5	2.70	0.20	1.24	71.7	48.7	68.0
1577	< 1	< 50	23.0	83	16	3.7	1.00	< 0.5	2.00	0.26	0.966	70.9	35.2	49.7
1578	< 1	< 50	11.7	33	13	2.3	0.90	< 0.5	1.40	0.23	1.59	71.0	39.3	55.4
1579	< 1	< 50	12.3	37	< 5	2.1	1.00	< 0.5	1.20	0.31	0.765	71.2	23.4	32.9
1580	< 1	< 50	18.9	62	< 5	3.0	< 0.01	< 0.5	2.40	0.32	1.13	71.0	43.4	61.2
1581	< 1	< 50	22.9	62	< 5	3.9	< 0.01	< 0.5	2.10	0.18	0.602	70.6	19.7	28.0
1582	< 1	500	17.2	52	< 5	2.8	< 0.01	< 0.5	2.00	0.27	0.521	70.9	15.3	21.6

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%
Lower Limit	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05				
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none
1583	< 1	270	14.9	37	< 5	2.4	0.80	< 0.5	1.60	0.32	0.841	71.2	24.2	34.0
1584	< 1	< 50	17.3	42	< 5	3.1	1.10	< 0.5	1.70	0.28	0.836	71.8	30.1	41.9
1585	< 1	< 50	18.9	65	24	3.2	< 0.01	< 0.5	2.00	0.27	1.00	71.2	46.0	64.7
1586	< 1	< 50	50.8	91	27	7.7	1.70	< 0.5	3.49	0.46	0.991	71.5	38.3	53.6
1587	< 1	660	30.2	63	< 5	3.7	< 0.01	< 0.5	1.89	0.55	0.557	71.2	20.9	29.4
1588	< 1	520	22.6	49	< 5	2.8	< 0.01	< 0.5	2.09	0.23	0.800	70.9	12.0	16.9
1589	< 1	< 50	57.5	119	34	8.6	1.70	< 0.5	3.39	0.51	0.688	70.9	29.0	40.9
1590	< 1	< 50	66.5	106	55	10.7	2.10	< 0.5	4.39	0.51	1.06	73.5	45.8	62.3
1591	< 1	< 50	17.2	31	8	2.4	0.90	< 0.5	1.30	0.29	1.56	72.9	57.2	78.5
1592	< 1	580	26.4	68	< 5	3.7	< 0.01	< 0.5	1.89	0.22	0.837	73.3	38.5	52.6
1593	< 1	660	28.0	40	< 5	3.5	< 0.01	< 0.5	1.89	0.30	0.558	64.4	8.75	13.6
1594	< 1	< 50	28.4	42	20	3.6	0.80	< 0.5	1.99	0.25	1.13	73.0	46.7	64.0
1595	< 1	240	55.5	98	< 5	7.3	1.30	< 0.5	3.49	0.57	0.889	73.3	36.8	50.2
1596	< 1	600	38.9	63	27	5.6	< 0.01	< 0.5	2.79	0.43	0.500	59.8	7.91	13.2
1597	< 1	480	12.1	86	< 5	2.6	< 0.01	< 0.5	1.50	0.24	0.764	70.4	24.9	35.4
1598	< 1	400	15.6	67	< 5	3.0	2.00	< 0.5	2.80	0.30	0.555	70.2	17.8	25.3
1599	< 1	140	7.5	29	9	1.9	< 0.01	< 0.5	1.20	0.12	1.41	72.2	41.8	57.9
1600	< 1	< 50	12.7	57	< 5	3.2	0.70	< 0.5	2.40	0.37	1.28	72.2	48.3	67.0
1601	< 1	430	11.8	43	< 5	2.9	1.00	< 0.5	2.10	0.33	0.643	69.4	21.7	31.3
1602	< 1	< 50	9.5	34	17	2.4	0.80	< 0.5	1.80	0.22	0.685	69.5	17.8	25.6
1603	< 1	< 50	14.3	53	10	3.4	< 0.01	< 0.5	2.40	0.20	0.949	71.1	37.1	52.1
1604	< 1	< 50	8.1	31	< 5	2.1	0.60	< 0.5	1.50	0.15	1.22	71.2	35.4	49.8
1605	< 1	120	15.6	59	16	3.9	0.80	< 0.5	2.90	0.31	0.952	71.3	34.3	48.1
1606	< 1	< 50	13.5	52	< 5	3.0	< 0.01	< 0.5	2.40	0.28	0.882	70.4	31.5	44.8
1607	< 1	< 50	15.9	85	13	3.7	1.30	< 0.5	2.40	0.29	1.03	73.7	41.7	56.6
1608	< 1	< 50	6.4	25	< 5	2.2	1.10	< 0.5	1.70	0.17	1.65	72.3	52.0	71.9
1609	< 1	250	15.7	72	8	3.9	1.30	< 0.5	2.40	0.16	1.39	72.3	54.0	74.6
1610	< 1	< 50	16.9	94	29	4.2	< 0.01	< 0.5	2.80	0.33	0.757	74.5	31.1	41.8
1611	< 1	< 50	15.8	58	19	3.8	1.00	< 0.5	2.70	0.42	0.623	70.9	11.1	15.6
1612	< 1	120	14.3	61	24	3.9	1.20	< 0.5	2.00	0.28	1.27	74.5	39.3	52.7
1613	< 1	< 50	13.7	64	< 5	3.2	1.40	< 0.5	1.90	0.25	0.727	50.8	10.6	20.9
1614	< 1	< 50	6.6	26	13	1.8	0.80	< 0.5	1.10	0.15	1.87	72.5	62.5	86.2
1615	< 1	< 50	7.7	26	6	1.9	0.60	< 0.5	1.80	0.20	1.49	74.2	56.5	76.2
1616	< 1	1100	10.6	47	< 5	2.6	< 0.01	< 0.5	1.50	0.25	0.465	63.2	4.94	7.82
1617	< 1	150	11.9	54	11	3.2	1.20	< 0.5	1.90	0.17	1.51	72.2	52.5	72.7
1618	< 1	< 50	21.5	43	14	3.0	0.80	< 0.5	1.71	0.27	1.34	71.1	41.8	58.8
1619	< 1	380	38.6	70	30	5.6	0.80	< 0.5	3.41	0.59	0.663	70.9	29.5	41.6
1620	< 1	300	51.0	72	31	6.8	1.59	< 0.5	3.11	0.48	0.560	66.1	14.5	21.9
1621	< 1	450	35.7	47	24	5.2	0.80	< 0.5	2.21	0.27	0.512	70.3	10.8	15.4
1622	< 1	< 50	39.3	88	40	5.7	1.19	< 0.5	2.21	0.40	1.09	72.2	43.0	59.6

Results

Activation Laboratories Ltd.

Report: A18-07796

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%
Lower Limit	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05				
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none
1623	< 1	< 50	34.5	68	32	4.9	< 0.01	< 0.5	2.11	0.49	1.00	70.4	19.0	26.9
1624	< 1	< 50	64.9	122	32	10.1	2.19	< 0.5	3.91	0.71	0.886	71.2	39.2	55.1
1625	< 1	< 50	46.7	72	62	7.3	1.59	< 0.5	3.01	0.60	0.752	71.4	33.1	46.3
1626	< 1	< 50	33.3	63	< 5	4.6	0.99	< 0.5	3.01	0.48	0.680	76.7	27.1	35.4
1627	< 1	< 50	37.8	84	21	5.3	1.59	< 0.5	2.81	0.35	1.06	76.5	44.7	58.4
1628	< 1	130	17.7	36	8	2.9	0.80	< 0.5	1.50	0.17	1.67	73.7	55.6	75.5
1629	< 1	1070	16.7	57	< 5	4.3	< 0.01	< 0.5	2.20	0.21	0.380	53.9	4.34	8.05
1630	< 1	< 50	15.6	69	12	4.1	< 0.01	< 0.5	2.20	0.30	0.705	70.6	19.3	27.4
1631	< 1	400	15.7	68	< 5	3.8	< 0.01	< 0.5	2.40	0.27	0.425	73.5	8.51	11.6
1632	< 1	< 50	13.1	83	< 5	3.1	< 0.01	< 0.5	2.00	0.21	0.902	71.4	31.5	44.1
1633	< 1	570	10.8	39	15	2.8	< 0.01	< 0.5	2.40	0.18	0.887	73.2	35.9	49.1
1634	< 1	< 50	19.8	85	34	4.8	1.50	1.3	3.30	0.27	0.773	60.5	17.0	28.0
1635	< 1	< 50	11.6	57	< 5	2.5	0.70	< 0.5	2.20	0.21	1.13	71.9	41.5	57.7
1636	< 1	790	7.4	23	14	1.9	< 0.01	< 0.5	0.60	0.18	0.403	70.4	5.18	7.36
1637	< 1	1110	10.3	76	< 5	3.0	< 0.01	< 0.5	2.50	0.28	0.590	50.8	9.66	19.0
1638	< 1	900	13.6	60	< 5	3.6	0.95	< 0.5	1.75	0.20	0.641	71.5	11.6	16.2
1639	< 1	< 50	11.8	49	17	3.4	1.40	< 0.5	1.70	0.20	1.11	72.0	40.9	56.8

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th	U
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	50	5	0.1	0.1	2	300	0.5	0.1	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
LKSD-2 Meas	< 5	< 2	11.5	760	19		18	59	< 0.5	4.50	7.3			< 2	< 50	< 5	1.1	12.9		< 300	< 0.5	13.9	7.2
LKSD-2 Cert	3.00	0.800	11.0	780	18.0		17.0	57.0	3.00	4.30	7.00			2.00	26.0	85.0	1.10	13.0		220	0.800	13.4	7.60
Ash AU Meas	50		273	< 50	< 1	< 0.2	< 1	12		0.81							1.5	2.0				< 0.1	
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760							1.60	1.90				0.100	
NIST 1633A Meas			134			< 0.2		179		9.18		< 1		< 50	138	6.0		< 2				26.5	10.6
NIST 1633A Cert			145			1.11		196		9.40		0.160			72.4	131	6.80		10.3			24.7	10.2
1574 Orig	< 5	< 2	8.7	470	< 1	4.0	33	119	8.0	7.26	3.8	< 1	< 2	< 2	< 50	156	1.3	19.8	< 2	< 300	< 0.5	14.4	5.6
1574 Dup	< 5	< 2	10.6	800	20	< 0.2	32	129	< 0.5	7.34	< 0.5	< 1	< 2	< 2	< 50	147	< 0.1	19.2	< 2	< 300	< 0.5	12.6	5.7
1606 Orig	< 5	< 2	12.2	600	17	< 0.2	28	94	15.0	5.65	5.1	< 1	< 2	< 2	< 50	< 5	1.7	13.6	< 2	< 300	< 0.5	11.0	3.9
1606 Dup	< 5	< 2	9.8	390	< 1	< 0.2	27	97	7.0	5.40	3.4	< 1	< 2	< 2	< 50	90	1.4	13.9	< 2	< 300	< 0.5	11.2	< 0.1
Method Blank	< 5	< 2	< 0.5	< 50	< 1	< 0.2	< 1	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	< 2	< 50	< 5	< 0.1	< 0.1	< 2	< 300	< 0.5	< 0.1	< 0.1

Analyte Symbol	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Lower Limit	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05	
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA
LKSD-2 Meas	< 1	< 50	64.7	113	55	10.5	1.90	< 0.5	4.00	0.57	
LKSD-2 Cert	2.00	209	68.0	108	58.0	11.0	1.90	1.40	4.00	0.600	
Ash AU Meas	< 1	< 50	1.1	5		0.4	< 0.01		0.30	0.10	
Ash AU Cert	1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500	
NIST 1633A Meas		< 50									
NIST 1633A Cert		220									
1574 Orig	< 1	< 50	27.8	115	45	6.7	2.30	< 0.5	3.70	0.50	0.836
1574 Dup	< 1	200	27.3	118	29	6.4	1.70	< 0.5	3.40	0.35	0.830
1606 Orig	< 1	< 50	13.7	54	13	3.0	< 0.01	< 0.5	2.60	0.33	0.884
1606 Dup	< 1	< 50	13.3	49	< 5	3.1	1.10	< 0.5	2.20	0.24	0.880
Method Blank	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	1.00



Date Submitted: 27-Jun-18
Invoice No.: A18-08285
Invoice Date: 15-Aug-18
Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

65 Vegetation samples were submitted for analysis.

The following analytical package(s) were requested:

Code 2C Ash Vegetation INAA(INAAGEO)

Code B3-Ash Report Ash Report

REPORT **A18-08285**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Footnote: K is not reportable due to delay in counting. INAA data may be suppressed due to high concentrations of some analytes

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written in a cursive style with a horizontal line underneath.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A18-08285

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	10	50	5	0.1	0.1	2	300	0.5	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1676A	58	< 2	1.5	590	54	32.0	6	8	< 0.5	0.17	< 0.5	< 1	< 2	< 2	330	< 50	92	0.2	4.6	< 2	400	< 0.5	0.4
1677A	83	< 2	7.3	900	67	32.0	4	33	< 0.5	0.14	< 0.5	< 1	< 2	< 2	510	420	126	1.1	0.7	< 2	600	< 0.5	1.4
1678A	37	< 2	5.2	700	48	32.0	8	14	< 0.5	0.09	< 0.5	< 1	< 2	< 2	400	< 50	76	1.1	0.4	< 2	1900	< 0.5	0.2
1679A	48	< 2	3.7	780	35	29.0	3	10	0.5	0.08	< 0.5	< 1	< 2	< 2	420	< 50	78	0.5	0.3	< 2	400	< 0.5	0.3
1680A	59	< 2	4.4	1720	48	30.0	52	18	< 0.5	0.16	< 0.5	< 1	< 2	< 2	510	< 50	151	0.5	0.6	< 2	800	< 0.5	0.4
1681A	101	< 2	4.3	890	139	27.0	12	18	< 0.5	0.12	< 0.5	< 1	< 2	< 2	800	< 50	138	0.2	0.4	< 2	< 300	< 0.5	0.6
1682A	61	< 2	2.7	510	64	33.0	4	10	< 0.5	0.06	< 0.5	< 1	< 2	< 2	340	< 50	147	0.2	0.3	< 2	600	< 0.5	< 0.1
1683A	21	< 2	5.3	660	44	35.0	7	10	< 0.5	0.10	< 0.5	< 1	< 2	< 2	290	< 50	145	0.6	0.4	3	1800	< 0.5	0.3
1684A	53	< 2	5.3	320	35	32.0	7	20	< 0.5	0.10	< 0.5	< 1	< 2	< 2	290	< 50	351	0.6	0.3	< 2	500	< 0.5	0.3
1685A	76	< 2	1.1	880	24	32.0	20	10	< 0.5	0.07	< 0.5	< 1	< 2	< 2	340	70	111	0.5	4.8	< 2	900	< 0.5	0.2
1686A	55	< 2	1.6	450	109	32.0	4	10	1.0	0.07	< 0.5	< 1	< 2	3	240	< 50	195	0.2	4.8	5	300	< 0.5	< 0.1
1687A	52	< 2	2.0	430	79	35.0	< 1	14	< 0.5	0.09	< 0.5	< 1	< 2	11	290	< 50	76	0.2	5.2	< 2	< 300	< 0.5	< 0.1
1688A	41	< 2	4.9	1120	79	33.0	22	18	< 0.5	0.09	< 0.5	< 1	< 2	< 2	390	90	100	0.6	0.5	< 2	1600	< 0.5	< 0.1
1689A	44	< 2	4.6	1300	63	32.0	24	14	< 0.5	< 0.05	< 0.5	< 1	< 2	6	300	110	118	0.5	5.0	< 2	1200	< 0.5	< 0.1
1690A	39	< 2	3.8	900	35	35.0	12	14	< 0.5	0.12	< 0.5	< 1	< 2	4	490	230	39	0.6	0.5	< 2	1600	< 0.5	< 0.1
1691A	31	< 2	3.5	590	23	35.0	< 1	12	< 0.5	0.09	< 0.5	< 1	< 2	< 2	360	< 50	50	0.1	0.5	< 2	500	< 0.5	0.2
1692A	51	< 2	3.7	630	29	36.0	2	9	< 0.5	0.08	< 0.5	< 1	< 2	< 2	410	100	36	0.8	0.3	< 2	900	< 0.5	0.3
1693A	44	< 2	4.9	1680	45	31.0	5	14	< 0.5	0.07	< 0.5	< 1	< 2	< 2	300	100	47	1.3	4.9	< 2	1000	< 0.5	0.4
1694A	38	< 2	3.3	760	25	32.0	4	12	< 0.5	0.07	< 0.5	< 1	< 2	43	310	< 50	35	0.5	0.4	< 2	1300	< 0.5	0.3
1695A	35	< 2	2.0	730	32	33.0	8	18	< 0.5	0.30	< 0.5	< 1	< 2	< 2	630	80	76	0.3	0.8	< 2	500	< 0.5	< 0.1
1696A	33	< 2	1.5	630	26	35.0	5	6	< 0.5	< 0.05	< 0.5	< 1	< 2	< 2	170	< 50	33	< 0.1	5.3	< 2	800	< 0.5	0.2
1697A	42	< 2	5.3	700	30	34.0	< 1	16	< 0.5	0.10	< 0.5	< 1	< 2	< 2	380	< 50	47	0.1	0.4	< 2	600	< 0.5	0.3
1698A	38	< 2	2.0	390	60	38.0	< 1	9	< 0.5	0.07	< 0.5	< 1	< 2	< 2	370	< 50	42	0.3	0.4	< 2	1300	< 0.5	0.8
1699A	73	< 2	3.8	590	40	29.0	< 1	17	< 0.5	0.08	< 0.5	< 1	< 2	< 2	330	< 50	109	0.2	0.3	< 2	1100	< 0.5	0.2
1700A	50	< 2	5.1	460	24	34.0	11	16	0.5	0.23	< 0.5	< 1	< 2	5	380	< 50	153	0.4	0.5	< 2	400	< 0.5	0.3
1701A	84	< 2	3.5	860	39	34.0	17	12	1.0	0.08	< 0.5	< 1	< 2	5	340	< 50	135	0.3	0.4	< 2	700	< 0.5	< 0.1
1702A	52	< 2	3.0	680	45	34.0	< 1	12	< 0.5	0.07	< 0.5	< 1	< 2	< 2	300	< 50	68	0.2	0.3	< 2	500	< 0.5	0.3
1703A	56	< 2	4.3	2140	66	32.0	3	15	< 0.5	0.07	< 0.5	< 1	< 2	< 2	500	< 50	108	0.6	0.5	< 2	500	< 0.5	0.3
1704A	44	< 2	1.5	250	33	34.0	8	10	0.5	0.07	< 0.5	< 1	< 2	< 2	390	< 50	169	0.6	0.3	< 2	1100	< 0.5	0.3
1640	< 5	< 2	4.0	560	8	4.0	27	64	2.0	3.83	3.7	< 1	< 2	< 2	14100	< 50	101	0.3	11.2	< 2	< 300	< 0.5	4.3
1641	< 5	< 2	2.2	730	9	6.0	26	70	2.0	3.99	5.4	< 1	< 2	< 2	14200	< 50	171	1.1	10.4	< 2	300	< 0.5	4.8
1642	< 5	< 2	5.5	460	4	3.0	25	96	1.0	4.48	4.6	< 1	< 2	< 2	16100	< 50	105	0.6	13.1	< 2	< 300	< 0.5	4.4
1643	< 5	< 2	6.1	790	9	4.0	29	111	1.4	4.44	5.4	< 1	< 2	< 2	15700	< 50	98	0.5	14.4	< 2	< 300	< 0.5	6.5
1644	< 5	< 2	17.3	440	10	4.0	25	101	1.9	4.75	4.4	< 1	< 2	< 2	14000	< 50	60	0.2	16.6	< 2	< 300	< 0.5	8.1
1645	12	< 2	19.3	620	15	< 0.2	9	84	2.9	4.81	7.0	< 1	< 2	< 2	7190	< 50	121	2.3	16.0	< 2	< 300	< 0.5	11.9
1646	< 5	< 2	7.3	570	6	2.0	12	91	4.3	4.54	3.8	< 1	< 2	< 2	13300	< 50	102	0.7	15.0	< 2	< 300	< 0.5	8.9
1647	< 5	< 2	11.9	490	9	4.0	18	84	3.4	4.48	8.0	< 1	< 2	< 2	10900	160	82	2.0	14.6	< 2	< 300	< 0.5	9.9
1648	< 5	< 2	7.7	520	6	< 0.2	28	104	6.3	5.42	6.5	< 1	< 2	< 2	12000	< 50	123	0.9	17.6	< 2	< 300	< 0.5	9.6
1649	< 5	< 2	9.8	1070	16	4.0	26	110	5.3	5.47	4.8	< 1	< 2	< 2	8550	< 50	125	1.3	17.6	< 2	< 300	< 0.5	11.2
1650	< 5	< 2	12.8	560	8	2.0	23	84	6.3	4.67	6.6	< 1	< 2	< 2	8720	< 50	80	1.5	14.1	< 2	< 300	< 0.5	9.9
1651	< 5	< 2	10.6	490	10	2.0	29	110	7.2	5.68	5.5	< 1	< 2	< 2	7630	< 50	183	1.2	17.4	< 2	< 300	< 0.5	12.3

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	10	50	5	0.1	0.1	2	300	0.5	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1652	11	< 2	34.0	570	13	6.0	40	139	7.2	4.15	5.7	< 1	< 2	< 2	9630	< 50	85	1.4	19.1	< 2	< 300	< 0.5	5.3
1653	< 5	< 2	9.3	660	23	6.0	20	83	1.4	3.50	6.3	< 1	< 2	< 2	13000	< 50	96	1.6	10.7	< 2	< 300	< 0.5	5.7
1654	< 5	< 2	12.5	670	20	4.0	22	79	2.5	3.44	5.0	< 1	< 2	< 2	10200	< 50	56	2.3	9.8	< 2	< 300	< 0.5	6.5
1655	< 5	< 2	10.1	590	13	< 0.2	25	80	2.0	3.85	4.0	< 1	< 2	< 2	7430	< 50	95	1.9	11.3	< 2	< 300	< 0.5	10.2
1656	< 5	< 2	12.2	620	12	3.0	21	70	6.0	4.25	4.1	< 1	< 2	< 2	8640	< 50	133	1.5	13.9	< 2	< 300	< 0.5	9.6
1657	< 5	< 2	39.0	1020	32	9.0	32	89	4.0	3.85	3.3	< 1	< 2	< 2	9120	< 50	92	1.3	12.0	< 2	< 300	< 0.5	5.5
1658	< 5	< 2	44.4	720	15	5.0	33	62	1.5	3.67	4.4	< 1	< 2	< 2	8500	< 50	116	0.8	10.2	< 2	< 300	< 0.5	8.4
1659	< 5	< 2	6.1	350	5	3.0	23	90	2.0	3.85	4.8	< 1	< 2	< 2	16400	< 50	38	0.1	11.2	< 2	< 300	< 0.5	4.1
1660	< 5	< 2	10.6	580	19	3.0	24	68	2.0	3.86	4.3	< 1	< 2	< 2	11600	< 50	97	0.7	9.0	< 2	< 300	< 0.5	4.8
1661	6	< 2	10.4	710	21	7.0	27	56	4.0	2.83	4.2	< 1	< 2	< 2	10900	< 50	90	1.7	11.1	< 2	< 300	< 0.5	6.8
1662	< 5	< 2	12.4	2160	40	12.0	25	57	2.5	2.92	3.4	< 1	< 2	< 2	5340	< 50	83	2.5	7.7	< 2	< 300	< 0.5	7.5
1663	< 5	< 2	12.6	620	20	4.0	22	62	5.5	3.77	4.4	< 1	< 2	< 2	13200	< 50	59	2.3	11.5	< 2	< 300	< 0.5	5.3
1664	7	< 2	2.7	970	16	2.0	28	102	4.0	5.45	1.6	< 1	< 2	< 2	4350	< 50	147	1.5	21.3	< 2	< 300	< 0.5	10.8
1665	< 5	< 2	17.7	690	17	1.0	36	72	7.5	3.98	5.2	< 1	< 2	3	8780	< 50	121	1.8	10.4	< 2	< 300	< 0.5	9.5
1666	< 5	< 2	9.4	980	30	5.0	29	97	2.0	4.57	3.2	< 1	< 2	< 2	6990	< 50	85	1.6	17.6	< 2	< 300	< 0.5	9.8
1667	< 5	< 2	23.3	1330	31	14.0	28	50	1.5	3.02	3.5	< 1	< 2	< 2	8090	< 50	42	1.4	8.9	< 2	< 300	< 0.5	4.9
1668	9	< 2	10.6	570	12	6.0	25	106	3.5	4.21	3.5	< 1	< 2	< 2	15200	< 50	56	0.8	11.8	< 2	< 300	< 0.5	5.5
1669	< 5	< 2	2.8	1150	26	8.0	9	79	2.5	3.40	3.2	< 1	< 2	< 2	12300	< 50	52	0.8	9.6	< 2	< 300	< 0.5	5.3
1670	6	< 2	4.1	840	73	9.0	3	22	1.0	1.41	1.5	< 1	< 2	< 2	3100	< 50	30	1.6	3.2	< 2	< 300	< 0.5	2.3
1671	< 5	< 2	7.5	530	8	< 0.2	34	93	6.0	5.13	3.9	< 1	< 2	< 2	7770	< 50	84	0.8	13.5	< 2	< 300	< 0.5	11.7
1672	< 5	< 2	8.1	520	10	2.0	30	79	1.0	4.59	3.5	< 1	< 2	2	17100	< 50	57	0.8	13.3	< 2	< 300	< 0.5	3.9
1673	< 5	< 2	13.2	1120	109	13.0	22	98	4.0	2.76	2.2	< 1	< 2	< 2	6200	< 50	66	4.2	7.4	< 2	< 300	< 0.5	5.1
1674	< 5	< 2	6.9	670	14	4.0	26	69	2.5	3.93	4.9	< 1	< 2	< 2	9640	< 50	94	1.4	10.4	< 2	< 300	< 0.5	7.5
1675	< 5	< 2	9.4	880	22	< 0.2	35	89	8.8	5.24	4.2	< 1	< 2	< 2	7890	< 50	72	1.4	16.2	< 2	< 300	< 0.5	12.1

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashe d Weight	Ashed Weight	% Ash	K
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%	%
Lower Limit	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05					
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none	ASHIN A
1676A	< 0.1	< 1	1860	1.6	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.577	71.9	1.43	1.99	
1677A	< 0.1	< 1	1570	10.6	8	< 5	0.8	< 0.01	< 0.5	< 0.05	< 0.05	0.501	71.4	1.08	1.51	
1678A	< 0.1	< 1	1010	3.5	< 3	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.517	71.1	1.10	1.55	
1679A	< 0.1	< 1	950	4.3	< 3	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.505	72.4	1.23	1.70	
1680A	0.2	< 1	1620	5.8	5	7	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.501	72.1	0.940	1.30	
1681A	< 0.1	< 1	1120	2.6	3	9	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.530	71.5	0.880	1.23	
1682A	< 0.1	< 1	1050	1.6	7	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.500	70.7	1.28	1.81	
1683A	< 0.1	< 1	900	9.1	4	< 5	0.5	< 0.01	< 0.5	< 0.05	< 0.05	0.530	73.8	1.49	2.02	
1684A	< 0.1	< 1	570	2.0	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.531	70.3	1.15	1.64	
1685A	< 0.1	< 1	380	3.9	< 3	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.510	73.0	1.37	1.88	

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash	K
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%	%
Lower Limit	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05					
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none	ASHIN A
1686A	< 0.1	< 1	1230	0.8	< 3	6	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.510	71.0	1.38	1.94	
1687A	< 0.1	< 1	1150	1.2	< 3	10	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.507	70.3	1.54	2.19	
1688A	< 0.1	< 1	1330	13.6	4	6	0.5	< 0.01	< 0.5	< 0.05	< 0.05	0.503	71.2	1.11	1.56	
1689A	< 0.1	1	1340	38.1	29	13	2.5	0.25	< 0.5	0.25	< 0.05	0.503	71.8	1.03	1.43	
1690A	< 0.1	< 1	920	11.0	6	< 5	0.7	< 0.01	< 0.5	0.40	< 0.05	0.507	71.0	1.28	1.80	
1691A	< 0.1	< 1	860	3.2	< 3	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.527	72.2	1.59	2.20	
1692A	< 0.1	< 1	970	7.7	< 3	< 5	0.5	< 0.01	< 0.5	< 0.05	< 0.05	0.523	70.3	1.25	1.78	
1693A	< 0.1	< 1	1430	8.9	7	< 5	0.4	< 0.01	< 0.5	< 0.05	< 0.05	0.517	71.2	1.15	1.62	
1694A	< 0.1	< 1	740	1.6	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.509	72.0	1.21	1.68	
1695A	< 0.1	< 1	1850	3.6	5	< 5	0.4	< 0.01	< 0.5	< 0.05	< 0.05	0.510	71.4	0.980	1.37	
1696A	< 0.1	< 1	900	1.9	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.530	72.4	1.69	2.33	
1697A	< 0.1	< 1	1130	2.2	8	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.510	70.6	1.29	1.83	
1698A	< 0.1	< 1	540	1.9	< 3	7	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.500	71.7	1.06	1.48	
1699A	< 0.1	< 1	630	3.0	< 3	< 5	0.3	0.05	< 0.5	< 0.05	< 0.05	0.520	72.6	0.890	1.23	
1700A	< 0.1	< 1	370	5.3	3	< 5	0.4	< 0.01	< 0.5	< 0.05	< 0.05	0.552	71.1	1.30	1.83	
1701A	< 0.1	< 1	660	3.3	8	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.549	72.3	1.61	2.23	
1702A	< 0.1	< 1	1000	4.6	< 3	6	0.4	< 0.01	< 0.5	< 0.05	< 0.05	0.568	71.8	1.10	1.53	
1703A	< 0.1	< 1	1110	7.8	< 3	12	0.7	< 0.01	< 0.5	< 0.05	< 0.05	0.500	72.1	1.13	1.57	
1704A	< 0.1	< 1	570	2.2	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.670	71.4	1.38	1.93	
1640	1.3	< 1	160	12.4	25	5	1.9	0.30	0.5	1.25	0.14	1.12	71.2	38.5	54.1	
1641	1.2	< 1	70	13.6	30	14	2.0	0.20	< 0.5	1.35	0.17	0.945	71.2	34.3	48.2	
1642	1.0	< 1	60	12.4	25	7	2.0	0.70	< 0.5	1.35	0.14	1.48	74.3	54.4	73.2	
1643	0.7	< 1	240	26.0	56	18	3.7	0.51	< 0.5	1.70	0.20	1.11	74.2	50.3	67.8	
1644	2.8	< 1	200	29.1	57	22	4.5	1.14	1.7	1.80	0.21	0.983	71.5	37.9	53.0	
1645	3.5	< 1	190	48.4	89	38	6.9	1.54	1.3	2.80	0.47	0.701	73.9	27.5	37.3	
1646	1.4	< 1	230	26.9	55	11	3.8	0.97	< 0.5	1.55	0.27	0.903	72.2	29.9	41.4	
1647	3.2	< 1	200	31.9	64	20	4.0	0.57	< 0.5	2.30	0.28	0.621	66.3	15.0	22.6	
1648	1.5	< 1	150	30.0	72	14	4.4	1.09	< 0.5	1.90	0.27	1.18	73.3	39.3	53.7	
1649	1.8	< 1	310	44.8	85	22	6.6	0.74	2.1	2.95	0.46	0.528	68.6	15.5	22.6	
1650	2.5	< 1	200	31.6	64	25	4.6	0.51	< 0.5	2.40	0.33	0.871	69.3	17.3	25.0	
1651	2.7	< 1	230	37.9	83	27	5.2	1.37	< 0.5	2.20	0.41	0.708	70.1	31.7	45.2	
1652	1.3	< 1	540	19.2	36	8	2.8	0.34	< 0.5	1.90	0.28	0.810	71.9	36.0	50.0	
1653	1.6	< 1	210	19.7	33	22	2.8	0.86	< 0.5	1.65	0.17	0.580	72.0	12.2	17.0	
1654	2.0	< 1	110	21.3	46	9	2.8	0.80	< 0.5	2.05	0.31	0.538	66.0	10.9	16.6	
1655	1.7	< 1	70	28.0	55	24	3.8	0.45	< 0.5	2.00	0.28	0.626	71.2	18.3	25.7	
1656	2.8	< 1	70	38.4	72	28	5.4	1.45	< 0.5	2.15	0.30	0.678	70.4	27.6	39.2	
1657	< 0.1	< 1	700	13.9	27	11	2.5	0.40	< 0.5	1.75	0.17	0.596	70.9	17.7	25.0	
1658	2.7	< 1	410	24.5	53	19	3.3	0.45	< 0.5	2.00	0.28	0.792	71.3	29.0	40.7	
1659	1.8	< 1	< 50	13.0	28	9	2.0	0.65	< 0.5	1.30	0.15	1.53	71.5	53.2	74.5	
1660	1.5	< 1	550	13.8	28	7	2.1	0.30	< 0.5	1.40	0.17	0.918	67.3	24.2	35.9	

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash	K
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%	%
Lower Limit	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05					
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none	ASHIN A
1661	2.8	< 1	200	18.9	36	10	2.4	0.35	< 0.5	1.75	0.21	0.525	72.1	28.4	39.3	
1662	2.4	< 1	390	21.2	40	16	2.7	0.35	< 0.5	2.00	0.14	0.505	58.1	11.2	19.3	
1663	1.5	< 1	120	16.0	36	9	2.5	0.30	< 0.5	1.40	0.20	0.522	72.1	13.4	18.6	
1664	2.6	< 1	130	102	194	121	18.8	4.25	1.4	5.85	0.95	0.510	70.4	20.3	28.8	
1665	2.5	< 1	180	24.9	60	21	3.4	0.45	< 0.5	2.15	0.30	0.693	71.0	26.2	36.9	
1666	2.5	< 1	210	105	216	95	17.8	4.15	2.9	5.75	0.86	0.517	71.4	16.3	22.9	
1667	1.7	< 1	560	12.6	38	9	2.1	0.55	< 0.5	1.15	0.06	0.518	70.7	21.0	29.7	
1668	1.8	< 1	260	14.6	36	14	2.3	0.35	< 0.5	1.45	0.16	0.896	71.2	33.3	46.8	
1669	1.8	< 1	540	13.1	32	9	2.0	0.20	< 0.5	1.25	0.08	0.537	72.4	14.1	19.5	
1670	< 0.1	< 1	380	7.2	19	6	1.0	< 0.01	< 0.5	0.65	< 0.05	0.511	69.0	5.16	7.48	
1671	2.9	< 1	130	25.0	60	24	3.5	0.40	< 0.5	2.15	0.32	1.00	71.9	47.0	65.3	
1672	0.7	< 1	210	10.5	26	5	2.0	0.60	< 0.5	1.35	0.17	1.20	73.0	39.0	53.4	
1673	1.3	< 1	960	17.0	30	11	2.7	0.25	< 0.5	1.65	0.09	0.508	64.6	5.14	7.96	
1674	2.3	< 1	330	22.9	47	13	3.3	0.85	< 0.5	1.90	0.23	0.598	70.7	19.3	27.3	
1675	5.4	< 1	410	35.2	76	11	5.2	1.31	< 0.5	2.35	0.32	0.670	70.4	22.3	31.7	

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta	Th
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	2	10	50	5	0.1	0.1	2	300	0.5	0.1
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
LKSD-3 Meas	< 5	< 2	26.5	710	17		31	91	2.2	4.13	5.0			2		< 50	82	1.2	12.4		< 300	< 0.5	10.9
LKSD-3 Cert	3.00	2.70	27.0	680	16.0		30.0	87.0	2.30	4.00	4.80			2.00		47.0	78.0	1.30	13.0		240	0.700	11.4
LKSD-3 Meas	< 5																						
LKSD-3 Cert	3.00																						
Ash AU Meas	59		220	80	3	1.0	8	16		0.79					710			0.6	2.0				0.9
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760					700			1.60	1.90				0.100
Ash AU Meas	51																						
Ash AU Cert	54.0																						
NIST 1633A Meas			138			< 0.2		187		8.98		< 1			1640	< 50	137	6.5		< 2			23.5
NIST 1633A Cert			145			1.11		196		9.40		0.160			1700	72.4	131	6.80		10.3			24.7
1642 Orig	< 5	< 2	5.5	460	4	3.0	25	96	1.0	4.48	4.6	< 1	< 2	< 2	16100	< 50	105	0.6	13.1	< 2	< 300	< 0.5	4.4
1642 Dup	< 5	< 2	4.8	470	4	3.0	23	84	3.5	4.45	4.5	< 1	< 2	< 2	16100	100	86	0.2	12.5	< 2	< 300	< 0.5	4.6
1674 Orig	< 5	< 2	6.9	670	14	4.0	26	69	2.5	3.93	4.9	< 1	< 2	< 2	9640	< 50	94	1.4	10.4	< 2	< 300	< 0.5	7.5
1674 Dup	< 5	< 2	8.3	760	15	5.0	29	74	4.0	3.99	5.3	< 1	< 2	< 2	9780	< 50	79	1.1	10.9	< 2	< 300	< 0.5	7.7
Method Blank	< 5	< 2	< 0.5	< 50	< 1	< 0.2	< 1	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	< 2	< 10	< 50	< 5	< 0.1	< 0.1	< 2	< 300	< 0.5	< 0.1
Method Blank	< 5																						

Analyte Symbol	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Lower Limit	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05	
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA
LKSD-3 Meas	4.8	< 1	< 50	49.5	92	42	7.6	1.43	0.9	2.57	0.42	
LKSD-3 Cert	4.60	2.00	152	52.0	90.0	44.0	8.00	1.50	1.00	2.70	0.400	
LKSD-3 Meas												
LKSD-3 Cert												
Ash AU Meas		1	< 50	2.1	5		0.4	0.05		0.25	0.07	
Ash AU Cert		1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500	
Ash AU Meas												
Ash AU Cert												
NIST 1633A Meas	9.7		230									
NIST 1633A Cert	10.2		220									
1642 Orig	1.0	< 1	60	12.4	25	7	2.0	0.70	< 0.5	1.35	0.14	1.48
1642 Dup	0.8	< 1	70	12.4	26	6	2.0	0.35	< 0.5	1.45	0.14	1.58
1674 Orig	2.3	< 1	330	22.9	47	13	3.3	0.85	< 0.5	1.90	0.23	0.598
1674 Dup	2.4	< 1	290	22.5	50	15	3.4	0.45	< 0.5	2.15	0.30	0.570
Method Blank	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	1.00
Method Blank												



Date Submitted: 18-Jul-18
Invoice No.: A18-09449
Invoice Date: 28-Aug-18
Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

9 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-09449**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A18-09449

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1078859	7	< 0.2	< 0.5	25	91	4	16	11	103	0.11	60	< 10	12	< 0.5	< 2	0.14	9	25	1.17	< 10	< 1	0.01	< 10
1078860	< 5	< 0.2	< 0.5	43	1530	< 1	172	< 2	60	2.51	< 2	< 10	14	< 0.5	< 2	> 10.0	25	188	4.43	< 10	< 1	0.03	< 10
1078861	< 5	< 0.2	0.6	91	1640	< 1	569	2	185	4.86	30	< 10	15	< 0.5	< 2	3.60	75	1420	8.70	10	3	0.04	< 10
1078862	< 5	< 0.2	< 0.5	20	1250	< 1	142	< 2	78	6.55	< 2	13	17	< 0.5	< 2	6.31	25	219	6.35	20	4	< 0.01	< 10
1078863	5	< 0.2	< 0.5	3	117	2	6	< 2	4	0.11	< 2	< 10	< 10	< 0.5	< 2	1.47	1	44	0.76	< 10	< 1	< 0.01	< 10
1078864	442	< 0.2	< 0.5	5	101	3	4	3	16	0.08	86	< 10	< 10	< 0.5	< 2	0.12	< 1	48	1.05	< 10	< 1	< 0.01	< 10
1078865	1100	0.8	1.0	16	80	2	20	37	77	0.15	1290	< 10	< 10	< 0.5	< 2	0.05	4	33	6.02	< 10	2	0.01	< 10
1078866	198	0.3	< 0.5	6	76	5	4	8	14	0.24	131	< 10	< 10	< 0.5	< 2	0.02	1	43	1.17	< 10	< 1	0.02	< 10
1078867	9	0.3	< 0.5	51	1280	< 1	51	36	78	2.89	37	< 10	72	< 0.5	3	4.30	13	39	4.17	< 10	< 1	0.39	15

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1078859	0.04	0.039	0.004	0.08	< 2	2	6	0.02	< 20	< 1	< 2	< 10	8	< 10	2	4
1078860	2.25	0.043	0.039	0.03	3	7	77	0.22	< 20	< 1	< 2	< 10	82	< 10	8	9
1078861	5.10	0.031	0.031	0.16	8	16	29	0.31	< 20	< 1	< 2	< 10	158	< 10	13	12
1078862	3.46	0.025	0.044	0.17	2	15	16	0.35	< 20	< 1	< 2	< 10	194	< 10	13	9
1078863	0.06	0.027	0.002	< 0.01	< 2	< 1	6	< 0.01	< 20	< 1	< 2	< 10	4	< 10	< 1	< 1
1078864	0.03	0.033	< 0.001	0.41	< 2	< 1	8	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	< 1
1078865	0.06	0.025	0.001	6.45	3	< 1	9	< 0.01	< 20	< 1	< 2	< 10	3	< 10	< 1	3
1078866	0.08	0.043	0.003	0.24	< 2	< 1	9	< 0.01	< 20	< 1	< 2	< 10	3	< 10	< 1	3
1078867	1.17	0.149	0.059	0.21	4	5	103	< 0.01	< 20	< 1	< 2	< 10	39	< 10	7	9

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6080	420	3	33	8	24	1.86	86		72	7.2	< 2	0.05	86	25	6.15	< 10		0.85	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6250	430	2	34	8	25	1.91	91		75	7.4	3	0.05	92	26	6.32	< 10		0.87	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		0.7	< 0.5	2250	725	< 1	33	57	260	2.89	5		79	0.8	5	0.43	20	47	5.28	< 10		0.47	40
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		1.1	< 0.5	2250	735	< 1	34	62	264	2.90	6		79	0.8	5	0.43	19	49	5.32	< 10		0.47	39
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.7	0.6	4270	797	< 1	31	72	324	2.80	7		63	0.7	17	0.41	20	42	5.75	< 10		0.39	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.5	< 0.5	4460	825	< 1	31	81	339	2.89	9		62	0.7	14	0.43	21	44	5.92	< 10		0.39	36
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 217 (Fire Assay) Meas	342																						
OREAS 217 (Fire Assay) Cert	338																						
Oreas 621 (Aqua Regia) Meas		65.2	280	3510	503	13	24	> 5000	> 10000	1.70	73			0.6	2	1.67	28	30	3.32	10	4	0.35	19
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		66.0	286	3580	504	13	24	> 5000	> 10000	1.75	73			0.6	5	1.68	29	30	3.35	10	4	0.35	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
OREAS 215 (Fire Assay) Meas	3380																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 215 (Fire Assay) Cert	3540																						
1078867 Orig	9																						
1078867 Dup	8																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	5	7	< 1	< 1	< 2	5	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 904 (Aqua Regia) Meas	0.21		0.096	0.04	4	5	18		< 20		< 2	< 10	33		19	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 904 (Aqua Regia) Meas	0.21		0.099	0.05	4	5	19		< 20		< 2	< 10	34		19	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas	1.37	0.033	0.064	0.37	< 2	4	16		< 20		< 2	< 10	38	< 10	22	32
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	1.37	0.035	0.065	0.38	3	4	16		< 20		< 2	< 10	38	< 10	22	33
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.43		0.060	0.65	3	4	14		< 20		< 2	< 10	35	< 10	19	36
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	1.46		0.061	0.68	3	4	14		< 20		< 2	< 10	36	< 10	20	33
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 217 (Fire Assay) Meas																
OREAS 217 (Fire Assay) Cert																
Oreas 621 (Aqua Regia) Meas	0.45	0.174	0.034	4.47	123	2	17		< 20		< 2	< 10	13	< 10	8	65
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.45	0.181	0.034	4.53	125	2	18		< 20		< 2	< 10	13	< 10	8	66
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
OREAS 215 (Fire Assay) Meas																

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 215 (Fire Assay) Cert																
1078867 Orig																
1078867 Dup																
Method Blank	< 0.01	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

APPENDIX IV

Sample Descriptions

UTM										Analyte Syrr	Au
NAD83										Unit Symbol	ppb
Samp #	Waypoint	GPS Position	Location	Altitude	Sample Type	Sample Length			Detection Li	5	
									Analysis Me	FA-AA	
							<i>Mono or multi-lithic, colour, grain size, primary mineralogy, textures, bedding, structure, magnetic</i>				
							<i>Alteration, intensity, minerals (sericite (fu), silicic, biotite, chlorite, ankerite, calcite, etc.) str, vn, stwk, fract</i>				
							<i>Mineralization, intensity, minerals (VG, py, asp, po, cp, gp, Fe-oxide etc.)</i>				
1078859	1721 16 U 284621 5386715		18-5	403 m	Selective Grab		Debris Flow, Graphitic Argillite, Rusty Fractures, Float from Test Pit				7
1078860	1722 16 U 284612 5386703		18-5	399 m	Selective Grab		Debris Flow, Strong Calcite Disseminated and on Fractures				< 5
1078861	1723 16 U 284466 5386799		18-6	396 m	Selective Grab		Debris Flow, Rusty Fractures, 1% Pyrite on Fractures, Strong Disseminated Calcite				< 5
1078862	1724 16 U 284472 5386790		18-6	404 m	Selective Grab		Debris Flow, Rusty Fractures, Moderate Disseminated Calcite, Locally Pervasive Bright Green Mineral (Fuchsite?)				< 5
1078863	1725 16 U 284469 5386796		18-6	400 m	Selective Grab		Quartz Pod, 20cm, South side of Diorite				5
1078864	1726 16 U 283840 5386852		Area South of Tracks	403 m	Selective Grab		Quartz Vein Float, 30 cm, Rusty Fractures, 2-3% Coarse Pyrite Clot:				442
1078865	1727 16 U 283851 5386847		Area South of Tracks	405 m	Selective Grab		Quartz Vein Float, 50 cm, Rusty Fractures, 7-10% Coarse Pyrite Clot:				1100
1078866	1728 16 U 283865 5386842		Area South of Tracks	407 m	Selective Grab		Quartz Vein Float, 100 cm, Rusty Fractures, Minor Coarse Pyrite Clot:				198
1078867	1729 16 U 283900 5386883		Outcrop North of Tracks	407 m	RCG	10m	Siltstone Sandstone Minor Graphitic Argillite, Minor Calcite Stringers, Shear Zone 10m, Scree				9

UTM
NAD83

Analyte Syrr	Au	As
Unit Symbol	ppb	ppm
Detection Li	5	0.5
Analysis Me	ASHINA	ASHINA

Samp #	Waypoint	GPS Position	Altitude	Sample Ty	Comments	Analysis Me	ASHINA	ASHINA
1543	1543	16 U 284203 5386096	418 m	Humus	silty clay		< 5	24
1544	1544	16 U 284204 5386074	413 m	Humus	silty clay		< 5	< 0.5
1545	1545	16 U 284198 5386053	413 m	Humus	silty clay		< 5	< 0.5
1546	1546	16 U 284200 5386022	412 m	Humus	silty clay		< 5	6.2
1547	1547	16 U 284211 5386000	414 m	Humus	silty clay		< 5	9.2
1548	1548	16 U 284209 5385974	411 m	Humus	clay		< 5	< 0.5
1549	1549	16 U 284208 5385946	411 m	Humus	silty clay		< 5	9.8
1550	1550	16 U 284207 5385921	410 m	Humus	silty clay		< 5	10.6
1551	1551	16 U 284194 5385899	411 m	Humus	silty clay		< 5	7.4
1552	1552	16 U 284207 5385877	416 m	Humus	silty clay		< 5	12
1553	1553	16 U 284211 5385851	414 m	Humus	silty clay		< 5	< 0.5
1554	1554	16 U 284217 5385821	412 m	Humus	silty clay		< 5	< 0.5
1555	1555	16 U 284219 5385803	407 m	Humus	silty clay		24	10.6
1556	1556	16 U 284215 5385776	408 m	Humus	silty clay		< 5	14.4
1557	1557	16 U 284215 5385749	403 m	Humus	silty clay		< 5	4
1558	1558	16 U 284217 5385725	407 m	Humus	silty clay		< 5	< 0.5
1559	1559	16 U 284218 5385700	409 m	Humus	silty clay		< 5	< 0.5
1560	1560	16 U 284214 5385676	409 m	Humus	sandy		< 5	< 0.5
1561	1561	16 U 284218 5385650	410 m	Humus	sandy		< 5	< 0.5
1562	1562	16 U 284301 5385600	402 m	Humus	sandy		< 5	< 0.5
1563	1563	16 U 284302 5385650	404 m	Humus	sandy		< 5	< 0.5
1564	1564	16 U 284300 5385700	406 m	Humus	silty clay		< 5	6.3
1565	1565	16 U 284300 5385749	404 m	Humus	sandy		< 5	< 0.5
1566	1566	16 U 284304 5385800	408 m	Humus	sandy		< 5	< 0.5
1567	1567	16 U 284307 5385852	417 m	Humus	sandy		< 5	11.5
1568	1568	16 U 284289 5385902	419 m	Humus	sandy near o/c		< 5	< 0.5
1569	1569	16 U 284298 5385947	417 m	Humus	sandy		< 5	9.2
1570	1570	16 U 284301 5386000	413 m	Humus	sandy		< 5	6.7
1571	1571	16 U 284302 5386051	414 m	Humus	silty clay		< 5	12.8
1572	1572	16 U 284297 5386106	419 m	Humus	sandy near o/c		< 5	< 0.5
1573	1573	16 U 284307 5386150	422 m	Humus	sandy		< 5	6.5
1574	1574	16 U 284403 5385997	415 m	Humus	sandy		< 5	9.6
1575	1575	16 U 284400 5385949	415 m	Humus	sandy		< 5	< 0.5
1576	1576	16 U 284397 5385898	413 m	Humus	sandy		< 5	6
1577	1577	16 U 284411 5385852	414 m	Humus	sandy		< 5	8.8
1578	1578	16 U 284396 5385805	410 m	Humus	sandy near o/c		< 5	< 0.5
1579	1579	16 U 284400 5385750	410 m	Humus	sandy		< 5	< 0.5
1580	1580	16 U 284395 5385705	397 m	Humus	sandy		< 5	< 0.5
1581	1581	16 U 284397 5385650	393 m	Humus	sandy		< 5	< 0.5
1582	1582	16 U 284402 5385597	405 m	Humus	clay		< 5	< 0.5
1583	1583	16 U 284397 5385547	398 m	Humus	silty clay		< 5	7.3
1584	1584	16 U 284503 5385555	392 m	Humus	silty clay		< 5	10.6
1585	1585	16 U 284501 5385602	398 m	Humus	silty clay		< 5	< 0.5
1586	1586	16 U 284502 5385653	392 m	Humus	clay		< 5	< 0.5
1587	1587	16 U 284505 5385701	393 m	Humus	silty clay		< 5	3.8
1588	1588	16 U 284503 5385751	403 m	Humus	clay		7	< 0.5
1589	1589	16 U 285405 5384998	401 m	Humus	silty clay		17	< 0.5
1590	1590	16 U 285393 5385052	395 m	Humus	clay		< 5	12.8
1591	1591	16 U 285403 5385101	399 m	Humus	silty clay		< 5	5.1

1592	1592	16 U 285404	5385151	408 m	Humus	clay	< 5	< 0.5
1593	1593	16 U 285392	5385200	412 m	Humus	silty clay near o/c	< 5	30.7
1594	1594	16 U 285394	5385250	402 m	Humus	silty clay	< 5	< 0.5
1595	1595	16 U 285402	5385301	399 m	Humus	clay	< 5	< 0.5
1596	1596	16 U 285402	5385350	391 m	Humus	clay	< 5	15.1
1597	1597	16 U 285495	5385250	389 m	Humus	clay	< 5	< 0.5
1598	1598	16 U 285497	5385197	391 m	Humus	clay	< 5	15.6
1599	1599	16 U 285499	5385142	391 m	Humus	clay	< 5	< 0.5
1600	1600	16 U 285497	5385104	393 m	Humus	clay	< 5	< 0.5
1601	1601	16 U 285496	5385050	397 m	Humus	clay near o/c	< 5	36.1
1602	1602	16 U 285499	5384998	403 m	Humus	clay near o/c	< 5	< 0.5
1603	1603	16 U 285510	5384952	405 m	Humus	clay	< 5	14.1
1604	1604	16 U 285500	5385348	388 m	Humus	clay	< 5	< 0.5
1605	1605	16 U 285505	5385399	394 m	Humus	clay	< 5	< 0.5
1606	1606	16 U 285503	5385454	397 m	Humus	clay	< 5	11
1607	1607	16 U 285499	5385502	397 m	Humus	clay near o/c	< 5	< 0.5
1608	1608	16 U 285506	5385552	404 m	Humus	clay near o/c	< 5	21.7
1609	1609	16 U 285500	5385598	400 m	Humus	clay	< 5	< 0.5
1610	1610	16 U 285497	5385653	399 m	Humus	clay	< 5	< 0.5
1611	1611	16 U 285405	5385701	398 m	Humus	clay	< 5	13.7
1612	1612	16 U 285399	5385641	401 m	Humus	clay	< 5	< 0.5
1613	1613	16 U 285402	5385600	400 m	Humus	clay	< 5	12.4
1614	1614	16 U 285400	5385550	406 m	Humus	clay near o/c	18	< 0.5
1615	1615	16 U 285396	5385500	394 m	Humus	clay	< 5	5.1
1616	1616	16 U 285394	5385451	385 m	Humus	clay	< 5	6.1
1617	1617	16 U 285301	5385502	390 m	Humus	clay	< 5	4
1618	1618	16 U 285299	5385549	396 m	Humus	clay near o/c	< 5	3.6
1619	1619	16 U 285306	5385598	400 m	Humus	clay	< 5	6.3
1620	1620	16 U 285295	5385654	402 m	Humus	clay	< 5	6.1
1621	1621	16 U 285299	5385701	402 m	Humus	clay	< 5	< 0.5
1622	1622	16 U 285301	5385747	406 m	Humus	clay	< 5	< 0.5
1623	1623	16 U 285201	5385744	391 m	Humus	clay	< 5	10.2
1624	1624	16 U 285198	5385696	394 m	Humus	clay	< 5	< 0.5
1625	1625	16 U 285204	5385648	388 m	Humus	clay	29	11.6
1626	1626	16 U 285200	5385600	397 m	Humus	clay	< 5	4.6
1627	1627	16 U 285200	5385549	399 m	Humus	clay	< 5	< 0.5
1628	1628	16 U 285195	5385500	391 m	Humus	clay near o/c	< 5	7.1
1629	1629	16 U 285097	5385675	388 m	Humus	clay	< 5	< 0.5
1630	1630	16 U 285103	5385707	388 m	Humus	clay	< 5	< 0.5
1631	1631	16 U 285100	5385756	388 m	Humus	clay	< 5	20.9
1632	1632	16 U 285100	5385796	394 m	Humus	clay	< 5	< 0.5
1633	1633	16 U 285001	5385850	399 m	Humus	clay	< 5	11.7
1634	1634	16 U 284997	5385797	400 m	Humus	clay	< 5	< 0.5
1635	1635	16 U 284994	5385745	394 m	Humus	clay	< 5	8.5
1636	1636	16 U 284895	5385755	392 m	Humus	silty clay near o/c	< 5	< 0.5
1637	1637	16 U 284898	5385801	396 m	Humus	clay	< 5	10.4
1638	1638	16 U 284895	5385850	408 m	Humus	silty clay	< 5	< 0.5
1639	1639	16 U 284897	5385951	407 m	Humus	clay	< 5	10.3
1640	1640	16 U 284807	5385903	428 m	Humus	clay near o/c	< 5	4
1641	1641	16 U 284803	5385849	427 m	Humus	silt near o/c	< 5	2.2
1642	1642	16 U 284808	5385802	419 m	Humus	silt near o/c	< 5	5.5
1643	1643	16 U 284801	5385753	401 m	Humus	silty clay near o/c	< 5	6.1
1644	1644	16 U 284796	5385691	389 m	Humus	clay	< 5	17.3

1645	1645	16 U 284800	5385652	392 m	Humus	clay	12	19.3
1646	1646	16 U 284800	5385599	404 m	Humus	clay	< 5	7.3
1647	1647	16 U 284804	5385547	404 m	Humus	clay	< 5	11.9
1648	1648	16 U 284803	5385498	406 m	Humus	clay	< 5	7.7
1649	1649	16 U 284809	5385454	403 m	Humus	clay	< 5	9.8
1650	1650	16 U 284803	5385400	404 m	Humus	clay	< 5	12.8
1651	1651	16 U 284798	5385349	398 m	Humus	clay	< 5	10.6
1652	1652	16 U 284705	5385400	417 m	Humus	clay near o/c	11	34
1653	1653	16 U 284697	5385447	416 m	Humus	clay	< 5	9.3
1654	1654	16 U 284700	5385502	415 m	Humus	clay	< 5	12.5
1655	1655	16 U 284702	5385551	414 m	Humus	clay	< 5	10.1
1656	1656	16 U 284703	5385595	411 m	Humus	clay	< 5	12.2
1657	1657	16 U 284707	5385701	393 m	Humus	clay	< 5	39
1658	1658	16 U 284690	5385731	401 m	Humus	clay near o/c	< 5	44.4
1659	1659	16 U 284690	5385764	408 m	Humus	clay near o/c	< 5	6.1
1660	1660	16 U 284700	5385803	429 m	Humus	silty clay	< 5	10.6
1661	1661	16 U 284700	5385849	426 m	Humus	silty clay	6	10.4
1662	1662	16 U 284699	5385900	429 m	Humus	clay	< 5	12.4
1663	1663	16 U 284597	5385953	430 m	Humus	clay near o/c	< 5	12.6
1664	1664	16 U 284594	5385902	427 m	Humus	silty clay	7	2.7
1665	1665	16 U 284592	5385853	426 m	Humus	silty clay	< 5	17.7
1666	1666	16 U 284594	5385797	424 m	Humus	silty clay	< 5	9.4
1667	1667	16 U 284602	5385765	415 m	Humus	silty clay near o/c	< 5	23.3
1668	1668	16 U 284596	5385732	407 m	Humus	silty clay near o/c	9	10.6
1669	1669	16 U 284598	5385702	400 m	Humus	clay	< 5	2.8
1670	1670	16 U 284591	5385651	397 m	Humus	clay	6	4.1
1671	1671	16 U 284500	5385802	414 m	Humus	silty clay	< 5	7.5
1672	1672	16 U 284508	5385855	418 m	Humus	silty clay near o/c	< 5	8.1
1673	1673	16 U 284506	5385904	425 m	Humus	silty clay near o/c	< 5	13.2
1674	1674	16 U 284600	5385497	411 m	Humus	silty clay	< 5	7.6
1675	1675	16 U 284600	5385560	405 m	Humus	silty clay	< 5	9.4
1676A	1676	16 U 284195	5385903	408 m	Alder		58	1.5
1677A	1677	16 U 284209	5385852	406 m	Alder		83	7.3
1678A	1678	16 U 284209	5385798	406 m	Alder		37	5.2
1679A	1679	16 U 284194	5385744	406 m	Alder		48	3.7
1680A	1680	16 U 284200	5385702	407 m	Alder		59	4.4
1681A	1681	16 U 284249	5385728	403 m	Alder		101	4.3
1682A	1682	16 U 284257	5385777	405 m	Alder		61	2.7
1683A	1683	16 U 284258	5385826	409 m	Alder		21	5.3
1684A	1684	16 U 284298	5385843	412 m	Alder		53	5.3
1685A	1685	16 U 284303	5385808	399 m	Alder		76	1.1
1686A	1686	16 U 284300	5385749	400 m	Alder		55	1.6
1687A	1687	16 U 284335	5385714	398 m	Alder		52	2
1688A	1688	16 U 284350	5385775	413 m	Alder		41	4.9
1689A	1689	16 U 284364	5385824	416 m	Alder		44	4.6
1690A	1690	16 U 284404	5385796	408 m	Alder		39	3.8
1691A	1691	16 U 284453	5385726	401 m	Alder		31	3.5
1692A	1692	16 U 284456	5385758	404 m	Alder		51	3.7
1693A	1693	16 U 284452	5385782	408 m	Alder		44	4.9
1694A	1694	16 U 284498	5385751	401 m	Alder		38	3.3
1695A	1695	16 U 284500	5385798	412 m	Alder		35	2
1696A	1696	16 U 284556	5385730	401 m	Alder		33	1.5
1697A	1697	16 U 284542	5385786	409 m	Alder		42	5.3

1698A	1698	16 U	284600	5385751	410 m	Alder	38	2
1699A	1699	16 U	284649	5385725	406 m	Alder	73	3.8
1700A	1700	16 U	284680	5385763	409 m	Alder	50	5.1
1701A	1701	16 U	284698	5385747	406 m	Alder	84	3.5
1702A	1702	16 U	284753	5385726	407 m	Alder	52	3
1703A	1703	16 U	284797	5385744	407 m	Alder	56	4.3
1704A	1704	16 U	284711	5385767	412 m	Alder	44	1.5

APPENDIX V

OEC Final Submission

FINAL SUBMISSION FORM (Phase I, II and III)
ONTARIO EXPLORATION CORPORATION ASSISTANCE PROGRAM
(OEC)

INSTRUCTIONS: Please read the guidebook before completing form
Please type or print in ink

Submit completed form to:

Ontario Exploration Corporation,
 1100 Memorial Avenue, Suite 364
 Thunder Bay, ON P7B 4A3

To be completed by successful applicant after completion of the project and must be accompanied by: detailed work report(s) and map(s) for the project; recent copies of claim map(s) with area(s) of work outlined; a copy of the Assessment Credit Approval Letter.

Attach your receipts to this form when you have completed it. Submit this form and attached receipts separately from your detailed work reports.

Applicant Name _____ Phase I II III (circle)

File Number _____

Project area (Twp. and claim group name)

Changes to proposed project(s) (if any)

I. WORK PERFORMED (Summary of Section IV)

1. Project area/name _____ No. days worked _____

Traditional prospecting	No. of samples _____	_____
Geological surveys	Scale _____	_____
Geophysical surveys	Type _____ Miles/km _____	_____
Geochemical surveys	Type _____ # of samples _____	_____
Drilling	Type _____ Ft./m _____	_____
Stripping/Trenching	Method _____	_____
Other	Type _____	_____
Other	Type _____	_____
Other	Type _____	_____

TOTAL Days Worked _____

II. EXPENDITURES – (Summary of Section III)

1. Analyses/Assay costs.....		\$ _____
2. Equipment rentals	\$ _____	
.....	\$ _____	\$ _____
3. Consumable Supplies		\$ _____
4. Contract services (state type)		
.....	\$ _____	
.....	\$ _____	
.....	\$ _____	
.....	\$ _____	\$ _____
# of workers _____ # of man days worked _____		
5. Travel (state method: road, air, etc.)		
.....	\$ _____	\$ _____
.....	\$ _____	\$ _____
6. Food and Accommodation		\$ _____
7. Other expenses (specify)		
.....	\$ _____	
.....	\$ _____	\$ _____
9. Helpers		
# of helpers _____ # of man days worked _____		
TOTAL EXPENDITURES		\$ _____
TOTAL		\$ _____

Total applied for Assessment Credit must include applicants Time

IV. DAILY ACTIVITY REPORTS (Summarize work activity in Section I)

Day	Name	Date	Work Performed
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____
6	_____	_____	_____
7	_____	_____	_____
8	_____	_____	_____
9	_____	_____	_____
10	_____	_____	_____
11	_____	_____	_____
12	_____	_____	_____
13	_____	_____	_____
14	_____	_____	_____
15	_____	_____	_____
16	_____	_____	_____
17	_____	_____	_____
18	_____	_____	_____
19	_____	_____	_____
20	_____	_____	_____
21	_____	_____	_____
22	_____	_____	_____
23	_____	_____	_____
24	_____	_____	_____
25	_____	_____	_____
26	_____	_____	_____
27	_____	_____	_____
28	_____	_____	_____
29	_____	_____	_____
30	_____	_____	_____
31	_____	_____	_____
32	_____	_____	_____
33	_____	_____	_____
34	_____	_____	_____
35	_____	_____	_____
36	_____	_____	_____
37	_____	_____	_____
38	_____	_____	_____
39	_____	_____	_____
40	_____	_____	_____

(Attach additional sheets as required)

V. SIGNIFICANT RESULTS

Location	New Showings and/or Anomalies	Commodity	Best Analyses
_____	_____	_____	_____

Add additional notes if required

VI. CLAIMS STAKED DURING/AFTER PROSPECTING ACTIVITY

Project Area	Claim Numbers	Number of Claim Units
_____	_____	_____

Please outline on claim map

VII. OPTION AGREEMENT RESULTING FROM OEC PROJECT

Optionee	Date	Property/Claims	Work Commitment
_____	_____	_____	_____

The Ontario Exploration Corporation may verify all statements related to and made herein this application.

I hereby declare that:

1. I am the person named in the Application for Funding from the Ontario Exploration Corporation.
2. I have complied with all requirements of the said program.
3. I am stating that all statements and all other information submitted in support of the said submission are true and correct.
4. I have not been an employee of the Ontario Exploration Corporation while in receipt of OEC funding.

Signature of Applicant _____ Date _____

Name (print) _____

Personal information collected on this form by OEC and OPA will be held in confidence.
