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# Technical Report: 2020-21 Wish Ore Exploration Work Programs AWR-21-4080

ON THE WISH ORE PROPERTY

NAD 1983 UTM ZONE 16N  
692345E, 5209573N  
NTS 41K16, 41N01

PREPARED BY: G.MACKAY, E.GORDEY, MACKAY MINING SOLUTIONS  
REPORT COMPLETED DATE, 2021-09-10

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## INTRODUCTION

This report presents and summarizes the results of the 2020-21 work programs on the property of Wish Ore, as per the requirements of ENDM's 2018 Technical standard on Assessment work Reporting. All of work was conducted on the Wish Ore property, in the Batchewana Bay area of the Sault Ste. Marie Mining District. Geological, prospecting, and sampling fieldwork was completed by Gordon MacKay, P. Geo., Francois Berniolles, P. Geo., and J. Paul Sorbara, P. Geo.

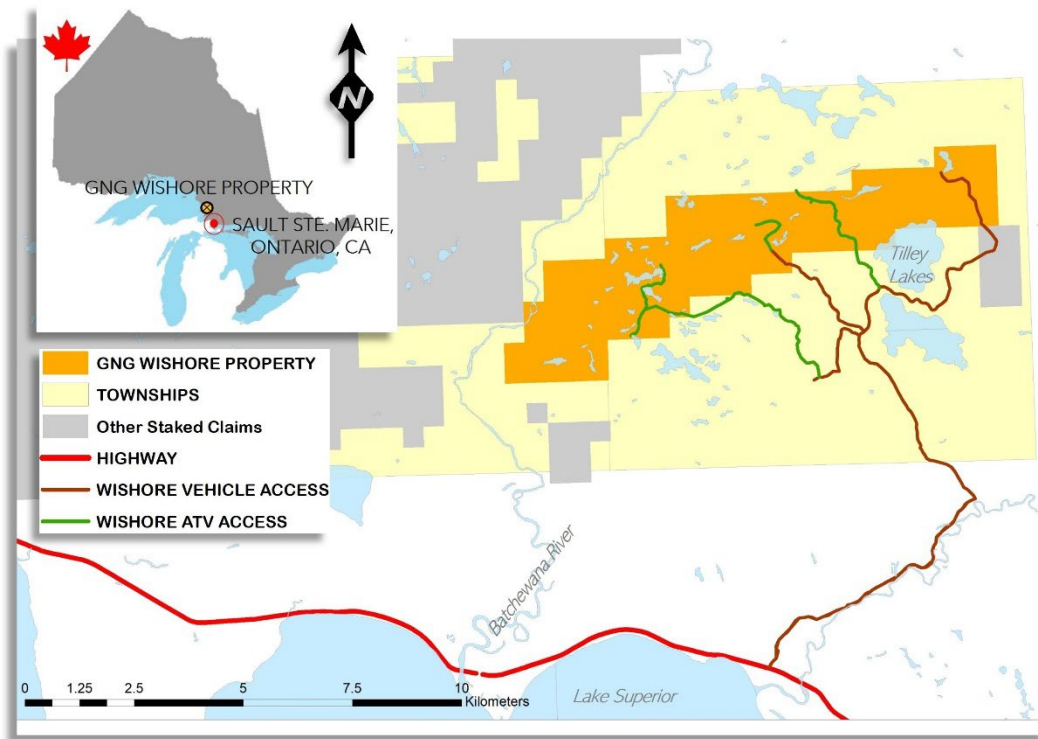
## WISH ORE PROPERTY LOCATION AND ACCESS

The Wish Ore property is in the Batchewana Bay area, approximately 60 kilometres NW of Sault Ste. Marie, in the Sault Ste. Marie Mining Division, NTS sheet 041N01.

The Wish Ore property falls within the traditional territory of the Batchewana First Nation where they are acknowledged to hold Aboriginal and Treaty rights, Garden River First Nation is also acknowledged to hold Treaty rights in the area, Michipicoten First Nation may hold Treaty rights, and the Metis Nation of Ontario – Sault Metis Council may hold Aboriginal rights.

Access to the property is by truck off the Ontario Highway 17 onto the Mile 38 Forest Road one kilometer north of the crossing of the Chippawa River. At kilometer 6 on the Mile 38 road turn left onto the Tilley Lakes Forest Road. Between kilometers 6 and 7 on the Tilley Lakes Road there are three tertiary forest roads that continue to the north and provide access onto the property. The lower part of the tertiary roads are suitable for truck, however ATVs/alternate vehicles are required for full access.

### GNG WISHORE PROPERTY



## CLAIMS AND OWNERSHIP FINANCIAL REQUIREMENTS

The Wish Ore property consists of 15 contiguous, multi-cell claims (103 cells), covering an area of approximately 2300 hectares with approximate dimensions of 12km East-West by 4km North-South. There are no boundary claims, therefore, the property, in its entirety, has an annual assessment work fee of \$41,200.

The upcoming Assessment Work Report, due on the Wish Ore property, is on 8 multi-cell claims that have the anniversary of 2020-01-10, with an assessment work requirement of \$19,200.

Property	Township/Area	Tenure ID	Cell Unit Key	Anniversary	Work Required	Total Reserve
Wish Ore	Wishart Township	546372	41N01D321	2023-01-10	\$400.00	\$0.00
			41N01D341		\$400.00	\$0.00
			41N01D361		\$400.00	\$0.00
			41N01D381		\$400.00	\$0.00
			41N02A380		\$400.00	\$0.00
			41N02A400		\$400.00	\$0.00
Wish Ore	Wishart Township	546373	41N01D322	2023-01-10	\$400.00	\$0.00
			41N01D323		\$400.00	\$0.00
			41N01D342		\$400.00	\$0.00
			41N01D343		\$400.00	\$0.00
			41N01D362		\$400.00	\$0.00
			41N01D363		\$400.00	\$0.00
Wish Ore	Wishart Township	546374	41N01D364	2023-01-10	\$400.00	\$1,240.50
			41N01D365		\$400.00	\$1,240.50
			41N01D366		\$400.00	\$1,240.50
			41N01D384		\$400.00	\$1,240.50
			41N01D385		\$400.00	\$1,240.50
			41N01D386		\$400.00	\$1,240.50
Wish Ore	Wishart Township	546375	41N01D267	2023-01-10	\$400.00	\$0.00
			41N01D287		\$400.00	\$0.00
			41N01D304		\$400.00	\$0.00
			41N01D305		\$400.00	\$0.00
			41N01D306		\$400.00	\$0.00
			41N01D307		\$400.00	\$0.00
Wish Ore	Wishart Township	546376	41N01D324	2023-01-10	\$400.00	\$0.00
			41N01D325		\$400.00	\$0.00
			41N01D326		\$400.00	\$0.00
			41N01D344		\$400.00	\$0.00
			41N01D345		\$400.00	\$0.00
			41N01D346		\$400.00	\$0.00
Wish Ore	Wishart Township	546377	41N01D308	2023-01-10	\$400.00	\$3,727.83
			41N01D327		\$400.00	\$3,727.83
			41N01D328		\$400.00	\$3,727.83
			41N01D347		\$400.00	\$3,727.83

			41N01D348		\$400.00	\$3,727.83
			41N01D367		\$400.00	\$3,727.83
Wish Ore	Wishart Township	546378	41N01D268	2023-01-10	\$400.00	\$0.00
			41N01D269		\$400.00	\$0.00
			41N01D270		\$400.00	\$0.00
			41N01D288		\$400.00	\$0.00
			41N01D289		\$400.00	\$0.00
			41N01D290		\$400.00	\$0.00
Wish Ore	Wishart Township	546379	41N01D309	2023-01-10	\$400.00	\$4,944.33
			41N01D310		\$400.00	\$4,944.33
			41N01D329		\$400.00	\$4,944.33
			41N01D330		\$400.00	\$4,944.33
			41N01D349		\$400.00	\$4,944.33
			41N01D350		\$400.00	\$4,944.33
Wish Ore	Wishart Township	546371	41K15I019	2023-04-10	\$400.00	\$0.00
			41K15I020		\$400.00	\$0.00
			41K15I039		\$400.00	\$0.00
			41K15I040		\$400.00	\$0.00
			41K16L001		\$400.00	\$0.00
			41K16L021		\$400.00	\$0.00
Wish Ore	Wishart Township	546380	41N01D271	2023-04-10	\$400.00	\$2,167.83
			41N01D272		\$400.00	\$2,167.83
			41N01D291		\$400.00	\$2,167.83
			41N01D292		\$400.00	\$2,167.83
			41N01D311		\$400.00	\$2,167.83
			41N01D312		\$400.00	\$2,167.83
Wish Ore	Wishart Township	546381	41N01D273	2023-04-10	\$400.00	\$1,565.17
			41N01D274		\$400.00	1,565.17
			41N01D293		\$400.00	1,565.17
			41N01D294		\$400.00	1,565.17
			41N01D313		\$400.00	1,565.17
			41N01D314		\$400.00	1,565.17
Wish Ore	Wishart Township	546382	41N01D275	2023-04-10	\$400.00	\$1,981.67
			41N01D276		\$400.00	1,981.67
			41N01D295		\$400.00	1,981.67
			41N01D296		\$400.00	1,981.67
			41N01D315		\$400.00	1,981.67
			41N01D316		\$400.00	1,981.67
Wish Ore	Wishart Township	546465	41N01D382	2024-01-10	\$400.00	\$0.00
			41N01D383		\$400.00	\$0.00
			41N01L002		\$400.00	\$0.00
			41N01L003		\$400.00	\$0.00
			41N01L022		\$400.00	\$0.00

			41N01L023		\$400.00	\$0.00
Wish Ore	Wishart Township	559558	41N01D240	2021-09-23	\$400.00	\$0.00
			41N01D256		\$400.00	\$0.00
			41N01D257		\$400.00	\$0.00
			41N01D258		\$400.00	\$0.00
			41N01D259		\$400.00	\$0.00
			41N01D260		\$400.00	\$0.00
			41N01D276		\$400.00	\$0.00
			41N01D277		\$400.00	\$0.00
			41N01D278		\$400.00	\$0.00
			41N01D279		\$400.00	\$0.00
			41N01D280		\$400.00	\$0.00
			41N01D296		\$400.00	\$0.00
			41N01D297		\$400.00	\$0.00
			41N01D298		\$400.00	\$0.00
			41N01D299		\$400.00	\$0.00
			41N01D300		\$400.00	\$0.00
			41N01D316		\$400.00	\$0.00
			41N01D317		\$400.00	\$0.00
			41N01C221		\$400.00	\$0.00
			41N01C222		\$400.00	\$0.00
			41N01C241		\$400.00	\$0.00
			41N01C242		\$400.00	\$0.00
			41N01C261		\$400.00	\$0.00
			41N01C262		\$400.00	\$0.00
			41N01C281		\$400.00	\$0.00
41N01C282	\$400.00	\$0.00				
Wish Ore	Wishart Township	559559	41N01D331	2021-09-23	\$400.00	\$0.00
			41N01D332		\$400.00	\$0.00

Table 1: Wish Ore table of multi-cell claims

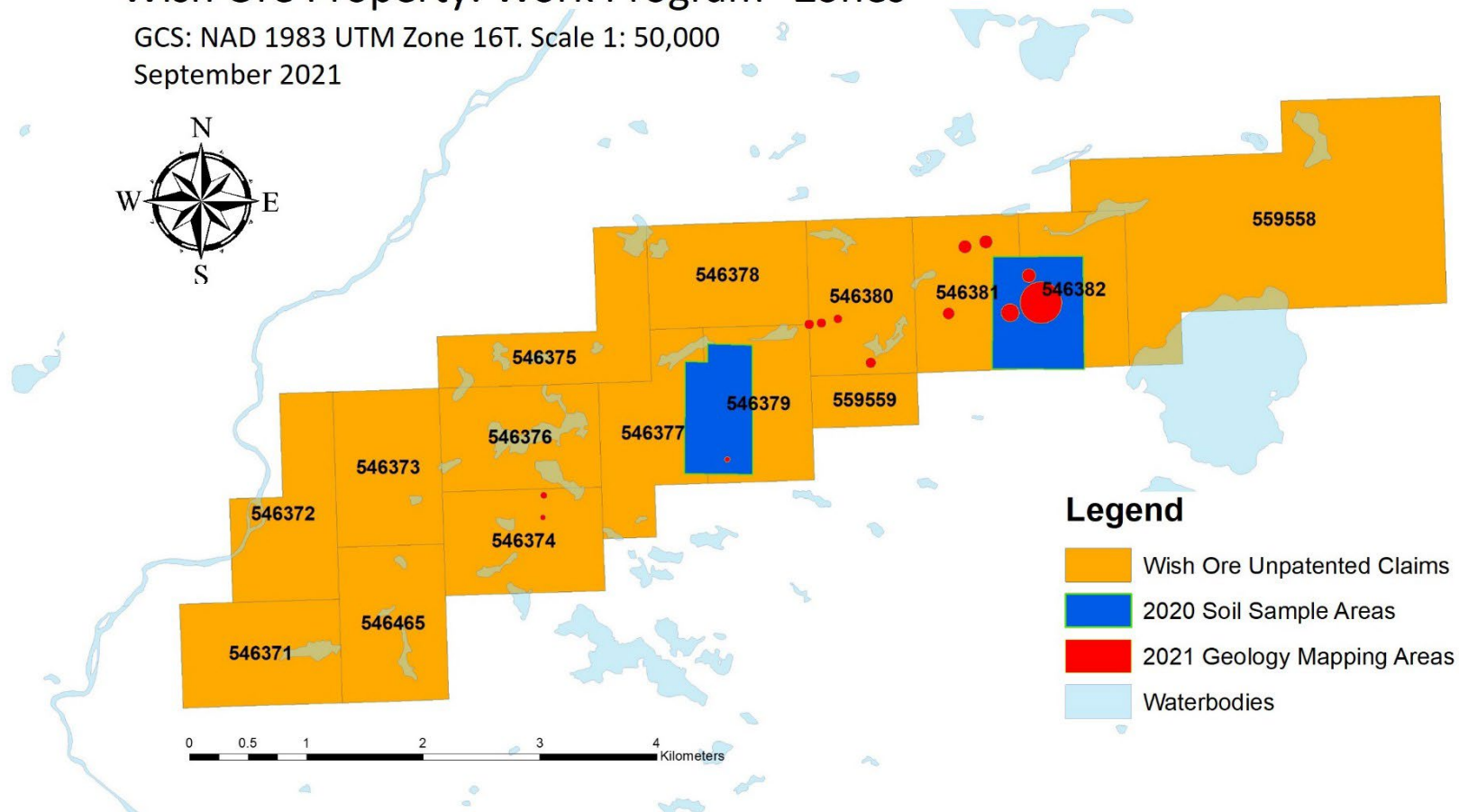
## WORK PROGRAM ZONES

This technical work report frequently makes geographical references to three “Zones” or work areas of interest:

### Wish Ore Property: Work Program “Zones”

GCS: NAD 1983 UTM Zone 16T. Scale 1: 50,000

September 2021

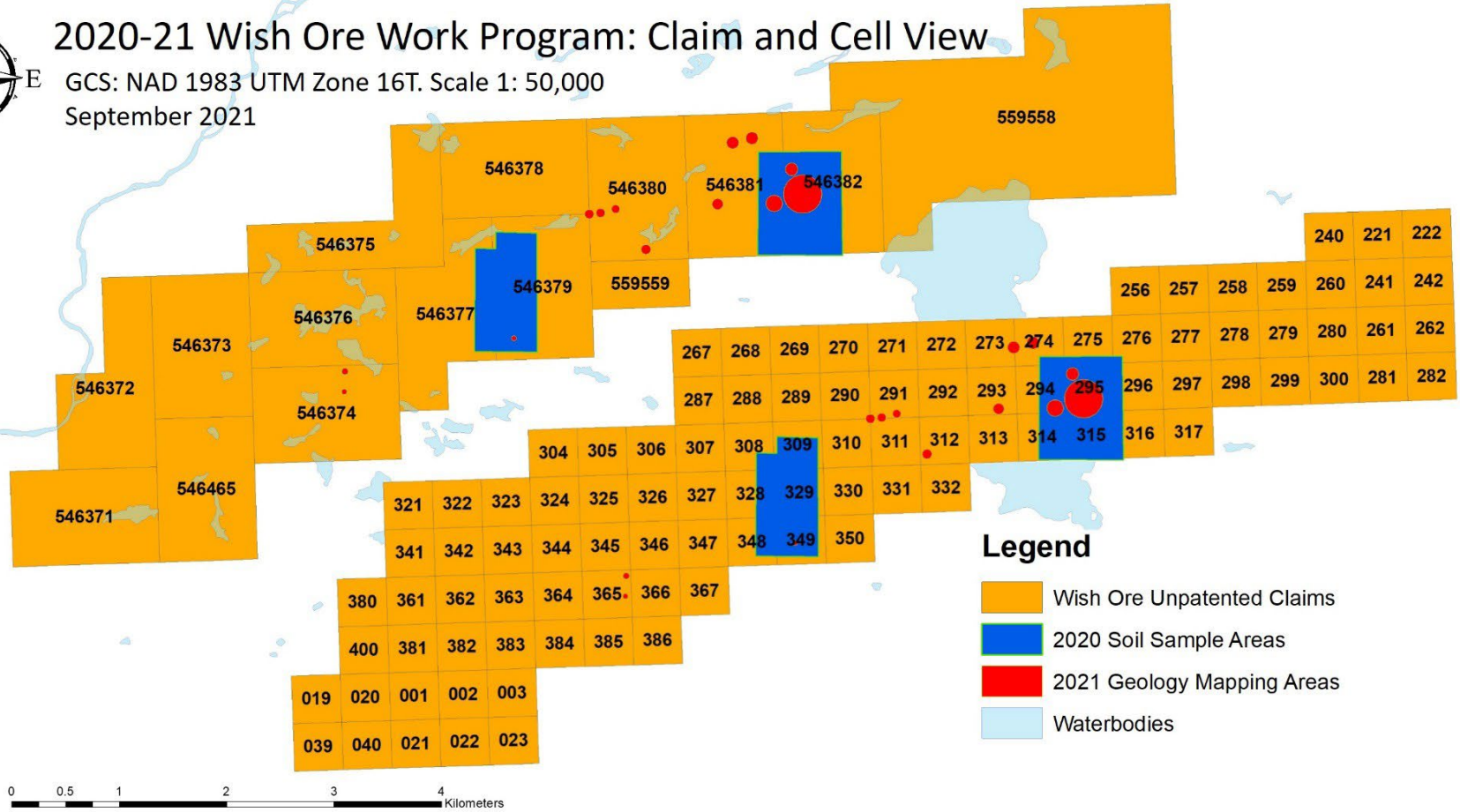


Map 2: 2020 & 2021 Work Program “Zones”



# 2020-21 Wish Ore Work Program: Claim and Cell View

GCS: NAD 1983 UTM Zone 16T. Scale 1: 50,000  
September 2021



Map 3: 2020-21 Work Program Overlaid on Claim and Cell Key Maps



## PREVIOUS WORK

There is limited exploration activity documented in the area prior to Loydex Resources in 1987 (Further referred to in this report as the “Loydex Zone”). Loydex was attracted to the area by two local prospectors who investigated geological survey mapped liniments within the Archean age Batchewana greenstone belt. Their follow-up identified quartz carbonate and silica alteration of shear structures in the mafic to intermediate volcanics.

Loydex had a grid cut just south of little Kerwin Lake and completed prospecting and a ground magnetics survey. The ground magnetics survey identified magnetic low response areas which, along with sites identified by prospecting, were followed up with a small trenching program. Highlights of the program included 9.2 gpt over 0.6 meters and a grab sample of vein material that ran 7.1 gpt. In the fall of 1987 Loydex also completed an IP survey over stripped area of the main showing. This identified a conductor 244 meters long 90 meters south-east of the showing.<sup>i</sup>

The project was then optioned to Lacana Resources who in 1988 completed 203 line-kilometers of airborne magnetics, EM, and VLF. The project was successful in assisting with defining the geology and underlying structures, areas of magnetic lows, and one notable EM anomaly that is coincident with the IP anomaly identified by Loydex.<sup>ii</sup>

Late in 1988 Corona optioned the property and completed detailed mapping over the Loydex grid covering 16 claim units centered on Little Kerwin Lake.<sup>iii</sup>

In 1989 INCO Gold optioned the property from Loydex. INCO cut a new grid on the property with a 10 km baseline oriented south-west with cross lines every 100 meters totaling over 108 km of cross lines. INCO conducted magnetic and VLF surveys on the grid with mapping with selected rock and soil sampling over areas of alteration and shearing. They collected 800 rock samples and 300 soil samples.

Two drill holes were completed by INCO. The first hole BH 79551 targeted the main showing discovered by Loydex in 1987 (9.2 gpt over .6 meters) the second hole BH 79552 targeted the IP anomaly identified in the Loydex IP survey over the main showing area (~150 meters southeast). Both holes intersected meta sediments with minor sections of meta volcanics, narrow zones of quartz carbonate alteration carried anomalous gold values with the highest value being 1.15 gpt over .7 meters in hole BH 79551.<sup>iv</sup>

In 2013 the area was explored by Mike Tremblay (one of the principle people credited with the Borden Lake discovery). He identified a number of broad altered shear zones extending across ~2 km from the main historic Loydex zone. Gold values from samples collected by Mike Tremblay ranged from trace to 25.57 gpt.

Several new shear zones were discovered in 2013, by (Mike Tremblay), outside of the area previously explored by Inco and others. The most promising of these was a new silicified shear zone in mafic volcanics south of the Carp River Fault which had six samples which ran 1.2, 2.57, 8.8, 13.13, 13.73 and 25.57g/t Au. The shear zone is at least 30m wide, runs O90AZ and consists of silica, ankerite and sericite alteration. The best gold values were from a quartz-ankerite-pyrite +/- chalcopyrite vein that is at least 1m wide. A 1m wide quartz feldspar porphyry dike located just south of the CRF and north of the INCO drill sites, with quartzankerite-pyrite stringers ran 1.53g/t gold. In the spring of 2014 several blocks of claims were added to better cover the strike and down dip of the new vein. Recent logging operations exposed several

carbonatized shear zones west of Upper Tilley Lake. Several samples were anomalous with a high value of 2.87g/t Au. The widest of these shears is a least 30m wide and is exposed intermittently over 125m strike length. The shears are hosted in mafic to intermediate volcanics and are oriented at 035-040 AZ<sup>v</sup>.

In 2016 Mike Tremblay reported on a limited hand stripping and channel sampling program in the “Trench Zone”, ~1km Northeast of the Northern Tilley Lake. This program returned high values of 1.99 gpt over 2.8 meters and 5.68 gpt from a grab sample of white quartz.<sup>vi</sup>

In 2019 Golden Goliath Resources optioned the Wish Ore property. The 2019 program consisted of sampling the known showings at the Trench Zone, the New Zone, and the Loydex Zone. This was followed by the establishment of cut lines and IP surveys over the New Zone and the Trench Zone.

## REGIONAL GEOLOGY

The Batchewana Greenstone Belt is a north-easterly trending package of Proterozoic and Archean metavolcanics and meta- sedimentary rocks. Surrounding the belt and defining its borders is a large batholithic complex of felsic intrusive rocks. Proterozoic volcanic and sedimentary rocks unconformably overlie the Archean metavolcanic rocks. Numerous dykes and sills of both Proterozoic and Archean Age are identified regionally. Swarms of diabase dykes, felsite's, porphyry dykes, and intrusive breccia pipes are relatively common regionally. Major fault directions are NE, NW and NS.<sup>vii</sup>

## PROPERTY GEOLOGY

Interest in the property has centred on north-easterly trending shear zones of high fissility. These zones are between 6 and 18 meters wide and are strike persistent for hundreds of meters. They exhibit strong carbonate alteration and commonly host white quartz veins up to 1.5 meters wide. Sulphide mineralization is weak. The best areas contain 1 or 2 percent pyrite. These high fissility zones are contained within a larger but more weakly foliated shear zone which covers most of the claim group. This main north-easterly trending shear has been subjected to at least one other younger period of deformation, producing kink folds and parasitic folds plunging 10 to 25° to the northeast along strike of the main shear plane. The parasitic folds have a wavelength of 30 to 90 centimeters.<sup>viii</sup>

The general geology is striking north-easterly and are dipping vertically or steeply to the northwest. The dominant rock type is mafic to intermediate metavolcanic flows and intrusives with lessor amounts of tuffs and/or volcanoclastic sediments.

Minor occurrences of banded iron formation, cherts, metamorphosed ultramafic rocks, and felsic metavolcanics are also present.

Diabase dykes of Archean age cut the above rocks with a south easterly trend. All of the above rocks appear to have been subjected to lower to middle greenschist facies metamorphism. Individual lithologies are difficult to trace along strike for more than a hundred meters. Major lineaments identified from air photos are interpreted as faults. The two principal fault trends on



the property are at  $060^\circ$  and  $315^\circ$ . Cliffs along these faults suggest they are dipping nearly vertical. The property includes the following distinctive units in order of abundance as shown in the figure below:

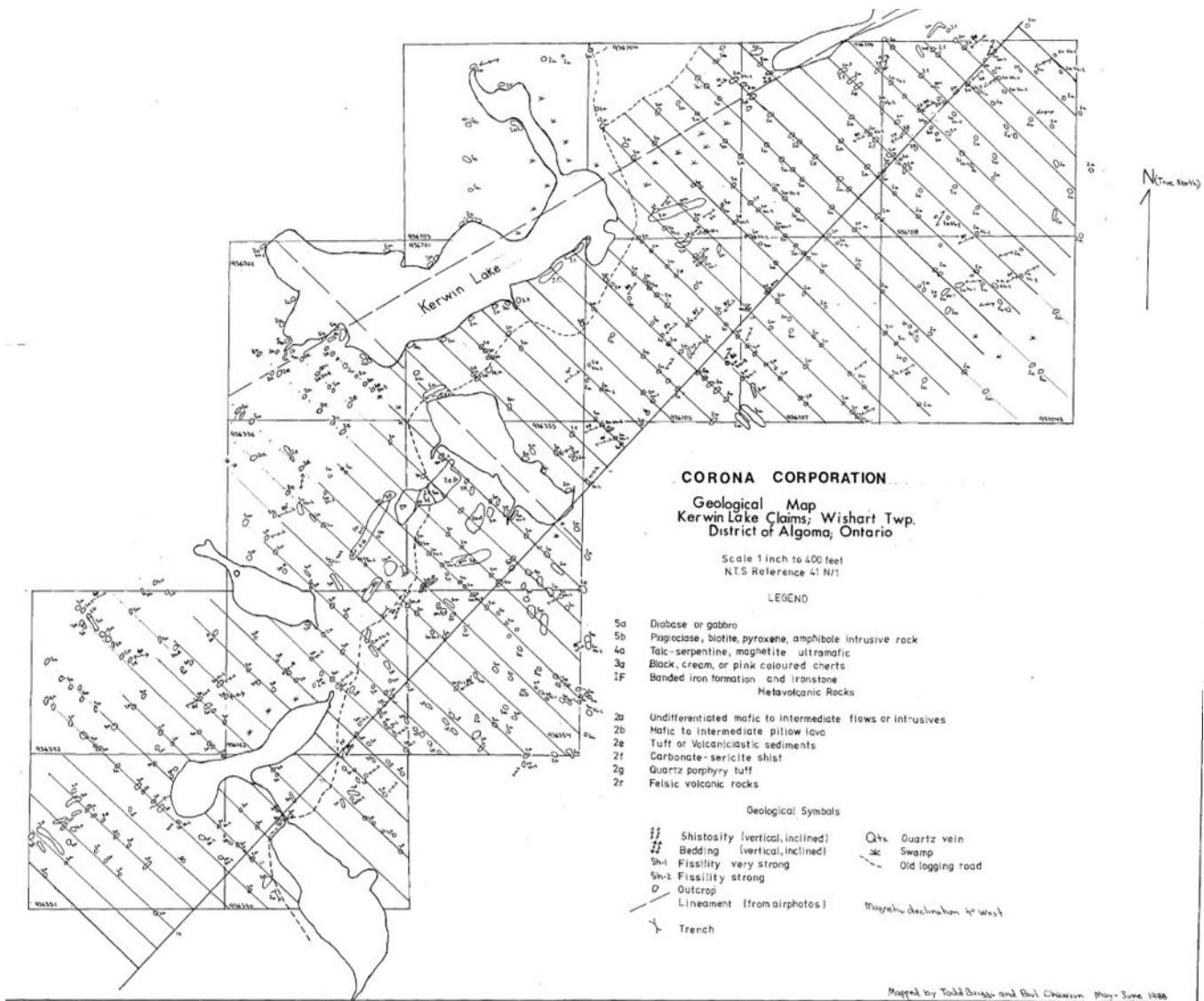


Figure 1: Historical Kerwin Lake Lithology<sup>x</sup>

Undifferentiated mafic to intermediate metavolcanics - these rocks vary in colour from dark to light green. Alteration to chlorite is moderate to strong. Generally, these rocks are fine grained with weak to strong foliation. Where strong foliation is present, interfoliated carbonate is common. Trace pyrite is often present. Coarser varieties are composed of - 70% plagioclase and 30% chlorite. Chlorite occurs in this case as discrete micaceous aggregates.

Tuff or Volcaniclastic Sediments - these units generally have weaker chloritic alteration. Light grey coloured varieties commonly have bands of sericite alteration parallel to bedding. elastic textures were used as a criteria for this category and are expressed as parallel bedding and/or the presence of volcanic fragments (lapilli size).

Mafic to intermediate pillowed flows - The pillow structures are stretched and flattened and although the selvages are clearly visible it is impossible to get a top direction. Pillows are difficult to recognize on the weathered outcrops so the most conclusive exposures are near the road where overburden stripping and power washing has exposed relatively fresh surfaces.

Quartz porphyry tuff - Dark glassy quartz crystals up to 25% by volume are distributed evenly throughout a dark green, fine grained matrix. The quartz phenocrysts vary in size from 1mm to 3mm. The larger ones occur in lense-shaped zones parallel to foliation and may represent zones of re-crystallization through shearing and metamorphism. Where the percentage of quartz phenocrysts is high the weathered surface has a distinctive light grey, rough surfaced appearance.

Felsic metavolcanic rocks - Very few outcrops of this type were found. The rock is pink in colour, contains quartz phenocrysts within a fine-grained ground mass and exhibits moderate foliation with minor interpolated carbonate.

Carbonate-sericite schist - A schistose rock of roughly equal proportions of iron carbonate and sericite. The rock is layered with waxy yellowish green sericite and buff to brown coloured iron carbonate. Trace pyrite and chalcopyrite is often present.

Iron Formation - The rock is banded with alternate layers of white chert and black magnetite. Some varieties have a green volcanic looking appearance with weak magnetite streaks or layers and lack chert.

Chert - These rocks vary in colour from pink to cream coloured, to black. A very weak finely laminated bedding is visible in some hand specimens.

Talc-Serpentine ultramafic - A soft fine-grained rock composed of talc and/or serpentine with nodules of magnetite. The unit weathers from a fresh greyish green colour to light brown.

Diabase dykes of Archean age are common on the property. They are fine to medium grained with a characteristic subophitic texture. Keewanowen diabase is black in colour with a brown weathered surface. One fine grained occurrence in the stripped area has vesicles caused by gas bubbles. The diabase of both ages are strongly magnetic.<sup>x</sup>

## ABORIGINAL CONSULTATION

As per Early Exploration Regulation 308/12, notice to Aboriginal communities and subsequent consultation on early exploration activities is required for plan and permit level work types.

At the request of Golden Goliath Resources, on March 19<sup>th</sup>, 2019, the Ministry of Energy, Northern Development & Mines provided Golden Goliath Resources with guidance on which Aboriginal communities may have Aboriginal or Treaty rights in the area of Golden Goliath's Wish Ore project.

April 2019: Golden Goliath sent letters of introduction to Batchewana First Nation, Garden River First Nation, Michipicoten First Nation, and The Metis Nation of Ontario – Sault Ste. Marie Council.

May 30: Meeting with Victor Bolduc, Batchewana First Nation resource technician, and Gordon MacKay and Erin Gordey representing Golden Goliath, at the Band offices. The objective of the consultation was to introduce Golden Goliath and the Wish Ore project to BFN. Identify any immediate areas of sensitivity or concern, and to establish file sharing, GIS and communication protocols. Golden Goliath's approach to the project, starting with grass roots prospecting and geological assessment. To be followed, based on results, with a plan application for line cutting, geophysics, and limited trenching. Discuss a preferred approach on how BFN wanted to be consulted with,

July 11: Meeting with Victor Bolduc, Batchewana First Nation resource technician, and Gordon MacKay and Erin Gordey representing Golden Goliath. The objective of the consultation was to discuss the location and timing for the next phase of exploration which would include the Plan level activity of line cutting, geophysics, and trenching.

July 26: Meeting with Richard Perrault, Acting Resource Manager for Garden River First Nation, and Gordon MacKay representing Golden Goliath, at their resource office in Sault Ste. Marie. The objective of the consultation was to introduce Golden Goliath and the Wish Ore project to GRFN. Identify any immediate areas of sensitivity or concern. Golden Goliath's Plan level exploration program was discussed along with future exploration depending on results. Garden River shared their preferred consultation and engagement approach.

August 9: Follow-up meeting with Richard Perrault, Garden River First Nation, Paul Sorbara and Gordon MacKay representing Golden Goliath. Discussed exploration at the Wish Ore prospect and any concerns and sensitivities GRFN was aware of at that location.

August 12: Follow-up meeting with Victor Bolduc and Dan Sayers Batchewana FN, and Paul Sorbara and Gordon MacKay representing Golden Goliath. Discussed exploration at the Wish Ore prospect and any concerns and sensitivities BFN was aware of at that location.

August 18, 2020: After completing the 2020 soil sampling program, Golden Goliath CEO Paul Sorbara and Gordon MacKay meet with land management staff at Batchewana FN office in Sault Ste. Marie. Discussed work programs at the Wish Ore prospect and any concerns and sensitivities BFN was aware of at the location, and future opportunities for BFN members to be employed on the site.

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<sup>i</sup> Makela, E.F., 1990, Assessment Report Geological/Geophysical/Geochemical Surveys, and Diamond Drilling. Loydex Option. Wishart Township, Ontario. NTS:41-K-16, 41-N-1. 41N01SW0090

<sup>ii</sup> Ibid

<sup>iii</sup> Briggs, T.G., 1988, Geology of the Kerwin Lake Claims, Wishart Property Corona Corporation, 41N01SW009

<sup>iv</sup> Makela, E.F., 1990, Assessment Report Geological/Geophysical/Geochemical Surveys, and Diamond Drilling. Loydex Option. Wishart Township, Ontario. NTS:41-K-16, 41-N-1. 41N01SW0090

<sup>v</sup> Tremblay, M.A., 2015, Report on Prospecting Wish-Ore Project Batchewana Greenstone Belt. 41N08761

<sup>vi</sup> Tremblay, M.A., 2016, Report on Exploration Wish Ore Prospect Batchewana Greenstone. 41N01466

<sup>vii</sup> Briggs, T.G., 1988, Geology of the Kerwin Lake Claims, Wishart Property Corona Corporation, 41N01SW009

<sup>viii</sup> Ibid

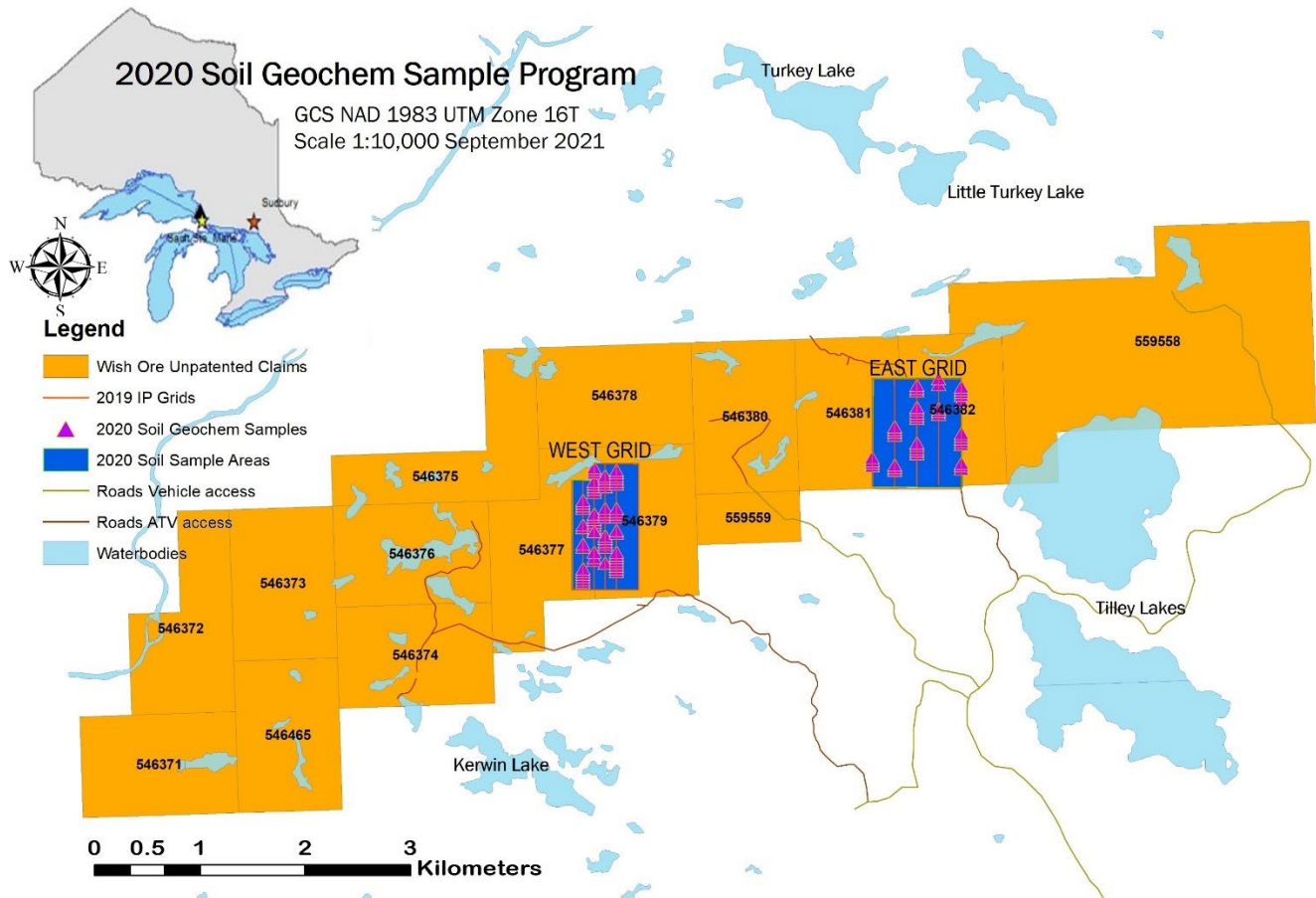
<sup>ix</sup> Ibid

<sup>x</sup> Ibid

## CHAPTER 1: 2020 SOIL GEOCHEM AND PROSPECTING

### Introduction

This chapter presents and summarizes the results of an 14 man-days grass-roots prospecting work program on the Wish Ore property during Aug 2-8,13-17,2020. Soil sample prospecting was conducted on claims 546377, 546379, 546381, and 546382. All fieldwork was supervised by Gordon MacKay, P.Geo and is detailed in the expenditure section of this chapter.



Map 4: 2020 Soil Geochem Survey Program- Regional Overview

### 2020 Soil Geochem and Prospecting Work Program

A total of 109 soil samples were collected for 2725 meters over IP anomalies identified from the 2019 IP survey of the Wish Ore property near Batchewana Bay. Eight rock samples and one sediment sample were also collected.

The soil over the Wish Ore prospect is an immature soil comprised of weathered bedrock and thin erratic till. Many low areas are characterized by boggy black muck. Many of the soil samples were anomalously orange in colouration. On initial review there appears to be no correlation between gold anomalies and soil colour.





*Image 1: Example of soil sample and colour*

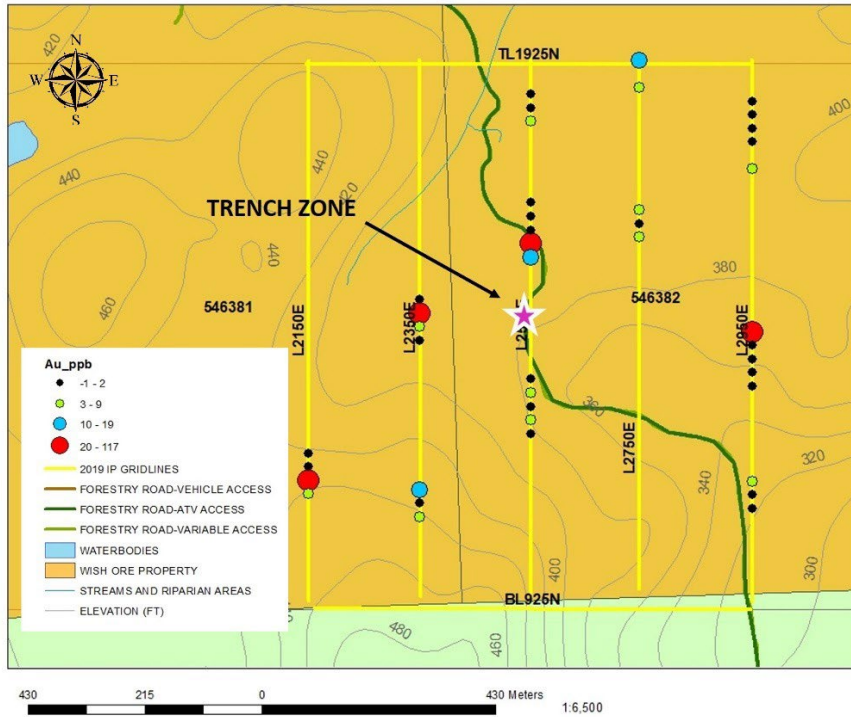
Orientation samples collected in 2019 at the New Zone on the West Grid returned values of 162 ppb Au from soil on the edge of the main New Zone mineralized outcrop and 14 ppb from soil 10 meters away on sheared and carbonate altered schist/volcanic. This suggests that the component of the soil made up from weathered bedrock is quite small.

The 2020 program identified 47 samples with Au values of 3ppb or greater. The high value of 119 ppb was collected from a steep north facing slope and was comprised largely of C-horizon weathered bedrock.

In the course of collecting the soil samples a number of rock samples were also collected. Two of these returned anomalous Au values. One sample of carbonate altered quartz sericite schist with trace sulfides was collected on L200 adjacent to soil sample site 550N. This rock sample returned a value of 476 ppb while the soil sample from approximately the same location returned a value of 3 ppb. Another rock sample was collected 10 meters east of L300 adjacent to soil sample site 725N. This sample of medium grained intermediate volcanic had rare blue quartz eyes, quartz veining, carbonate alteration and trace sulfides it returned a value of 167 ppb Au while the soil from L300 725N returned a Au value of <1.

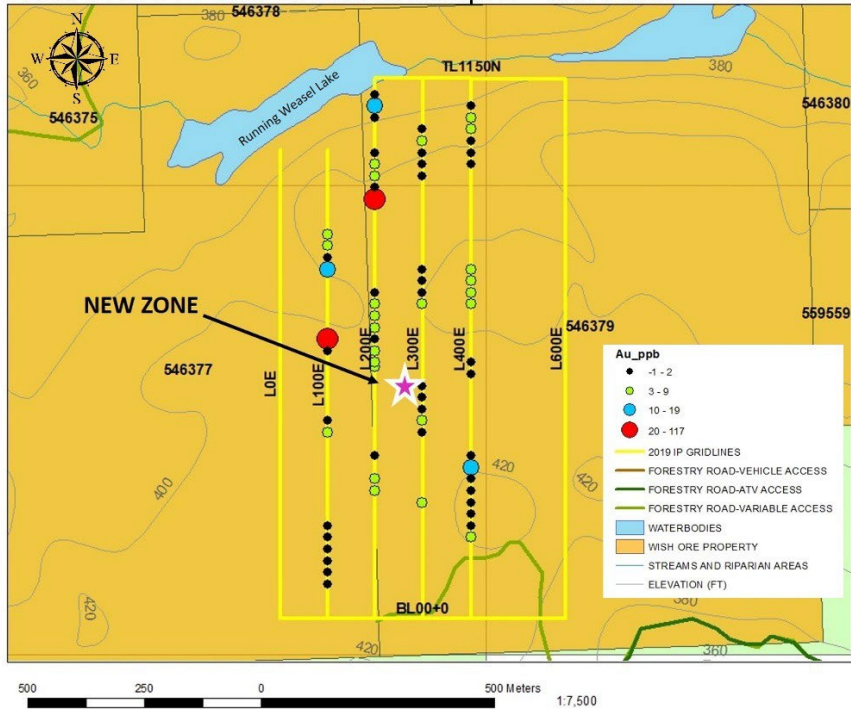
On initial analysis there seems to be a weak association between Au, Ag, As, Cu, and Mo. A sediment sample collected on L200 at ~640N showed the correlation.

### Wish Ore 2020 Soil Geochem Samples- East Grid



Map 5: Soil Geochem Au Values- East Grid

### Wish Ore 2020 Soil Geochem Samples- West Grid



Map 6: Soil Geochem Au Values - West Grid

## Sample Data Capture

Sample #	Easting	Northing	Au ppb
L100-075N	693719	5209401	2
L100-100N	693719	5209426	1
L100-125N	693719	5209451	<1
L100-150N	693719	5209476	2
L100-175N	693719	5209501	1
L100-200N	693719	5209526	2
L100-400N	693719	5209726	5
L100-425N	693719	5209751	1
L100-575N	693719	5209901	2
L100-600N	693719	5209926	23
L100-750N	693719	5210076	19
L100-775N	693719	5210101	2
L100-800N	693719	5210126	4
L100-825N	693719	5210151	3
L200-1000N	693821	5209601	<1
L200-1075N	693821	5209626	2
L200-1100N	693821	5209676	13
L200-1125N	693821	5209876	1
L200-275N	693821	5209901	4
L200-300N	693821	5209926	4
L200-350N	693821	5209951	2
L200-550N	693821	5209976	3
L200-575N	693821	5210001	3
L200-600N	693821	5210026	2
L200-625N	693821	5210226	8
L200-650N	693821	5210251	3
L200-675N	693821	5210276	3
L200-700N	693821	5210301	2
L200-900N	693821	5210326	25
L200-925N	693821	5210401	2
L200-950N	693821	5210426	4
L200-975N	693821	5210451	5
L300-1000N	693922	5209576	2
L300-1025N	693922	5209726	8
L300-1050N	693922	5209751	1
L300-250N	693922	5209776	3
L300-400N	693922	5209801	<1
L300-425N	693922	5209826	3
L300-450N	693922	5210001	<1
L300-475N	693922	5210026	<1
L300-500N	693922	5210051	1
L300-675N	693922	5210076	3

Sample #	Easting	Northing	Au ppb
L300-700N	693922	5210276	2
L300-725N	693922	5210301	<1
L300-750N	693922	5210326	<1
L300-950N	693922	5210351	2
L300-975N	693922	5210376	2
L400-1000N	694026	5209501	<1
L400-1025N	694026	5209526	2
L400-1050N	694026	5209551	5
L400-1075N	694026	5209576	4
L400-1100N	694026	5209601	1
L400-175N	694026	5209626	4
L400-200N	694026	5209651	2
L400-225N	694026	5209676	2
L400-250N	694026	5209851	2
L400-275N	694026	5209876	2
L400-300N	694026	5210001	1
L400-325N	694026	5210026	15
L400-350N	694026	5210051	1
L400-525N	694026	5210076	1
L400-550N	694026	5210301	1
L400-675N	694026	5210326	5
L400-700N	694026	5210351	7
L400-725N	694026	5210376	6
L400-750N	694026	5210401	3
L400-975N	694026	5210426	1
L2150-1125N	696369	5210467	4
L2150-1150N	696369	5210492	117
L2150-1175N	696369	5210517	1
L2150-1200N	696369	5210542	2
L2350-1075N	696574	5210425	4
L2350-1100N	696574	5210450	<1
L2350-1125N	696574	5210475	10
L2350-1400N	696574	5210750	2
L2350-1425N	696574	5210775	5
L2350-1450N	696574	5210800	42
L2350-1475N	696574	5210825	<1
L2550-1225N	696779	5210578	<1
L2550-1250N	696779	5210603	8
L2550-1275N	696779	5210628	2
L2550-1300N	696779	5210653	4
L2550-1325N	696779	5210678	<1
L2550-1550N	696779	5210903	14



Sample #	Easting	Northing	Au ppb
L2550-1600N	696779	5210953	<1
L2550-1625N	696779	5210978	1
L2550-1650N	696779	5211003	<1
L2550-1800N	696779	5211153	5
L2550-1825N	696779	5211178	<1
L2550-1850N	696779	5211203	<1
L2750-1575N	696977	5210940	3
L2750-1600N	696977	5210965	3
L2750-1625N	696977	5210990	4
L2750-1850N	696977	5211215	7
L2750-1900N	696977	5211265	17
L2950-1100N	697186	5210440	<1
L2950-1125N	697186	5210465	<1
L2950-1150N	697186	5210490	5
L2950-1325N	697186	5210665	<1
L2950-1350N	697186	5210690	<1
L2950-1375N	697186	5210715	<1
L2950-1400N	697186	5210740	<1
L2950-1425N	697186	5210765	28
L2950-1725N	697186	5211065	5
L2950-1775N	697186	5211115	2
L2950-1800N	697186	5211140	<1
L2950-1825N	697186	5211165	2
L2950-1850N	697186	5211190	2
6622933	693821	5209866	5
L2550-1600N	696779	5210953	<1
L2550-1625N	696779	5210978	1
L2550-1650N	696779	5211003	<1
L2550-1800N	696779	5211153	5

Au	Ag	As	Cu	Mo
<1-2 ppb	<.5 ppm	<1-2 ppm	<20 ppm	.5-1.9 ppm
3-9 ppb	5 ppm	2-4 ppm	20-50 ppm	2-2.9 ppm
10-19 ppb	6-9 ppm	5-9 ppm	50-100 ppm	3-4.9 ppm
>19 ppb	>.9 ppm	9 ppm	>100 ppm	>5 ppm

\*The B horizon depth of the samples was fairly homogeneous and ranged between 30- 36 cm.



UTM Coordinates 693719E 5208526N

Table 2: Summary Table of Sample # References, UTM Coordinates and Au Values

### Rock Sample Descriptions

6622941

Outcrop: 694864E 5210759N

Pale coloured fine grained felsic volcanic. Trace disseminated sulfides. Minor fine quartz veining.

6622942

Float: 695377E 5210926N

Intermediate medium green volcanic. 5 - 10% sulfides, Pyrite and chalcopyrite.

6622943

Outcrop: 695195E 5210687N

Fine grained light grey felsic volcanic. 1% sulfides with trace chalcopyrite and malachite along fractures..



*Daily Log:*August 2, 2020

Travel from Sudbury to Sault Ste Marie. Due to the pandemic accommodation in Sault Ste, Marie.

August 3, 2020

Travel to property via Highway 17 to Mile 38 road. Approximately 6 kilometers from the highway turnleft onto the Tilley Lakes access road. Six kilometers up the Tilley Lake to the property. Travel up tertiary forest road via ATV to West Grid. Soil sample and prospect over IP anomalies on L200E.

August 4, 2020

Travel to property. Soil sample and prospect over IP anomalies on West Grid L100E, and prospect IProad anomaly.

August 5, 2020

Travel to property. Soil sample and prospect over IP anomalies on East Grid L2150E, L2350E, andL2550E.

August 6, 2020

Travel to property. Soil sample and prospect over IP anomalies on West Grid L300E and L400E.

August 7, 2020

Travel to property. Soil sample and prospect over IP anomalies on East Grid L2750E and L2950E.

August 8, 2020

Return to Sudbury

August 14<sup>th</sup>, 2020

Sudbury to Sault Ste. Marie with J. Paul Sorbara.

August 15<sup>th</sup>, 2020

Travel to property. Visit and assess Loydex and East Grid (Trench Zone) with J. Paul Sorbara. Discuss work done, geology, alteration, and possible future work programs.

August 16<sup>th</sup>, 2020

Travel to property. Visited IP road zone with J. Paul Sorbara. Discuss work done, geology, alteration, and possible future work programs. Prospect and sample.

August 17<sup>th</sup>, 2020

Travel to property. Soil sample and prospect over IP anomalies on East Grid L2750E. Return to Sudbury.

## WISH ORE 2020 TECHNICAL WORK REPORT CONCLUSIONS

The Wish Ore project covers an approximate 23 square km section of the Archean-age Batchewana Greenstone Belt. Gold mineralization is associated with southwest trending shear structures that are approximately parallel to sub-parallel to the original stratigraphy. This package appears to be broken by northwest trending high angle faults. The greenstone belt comprises mafic to intermediate volcanics with associated meta sediments and iron formation.

The 2019 geophysics program identified several electro-magnetic anomalies parallel to the southwest trending structures and alteration.

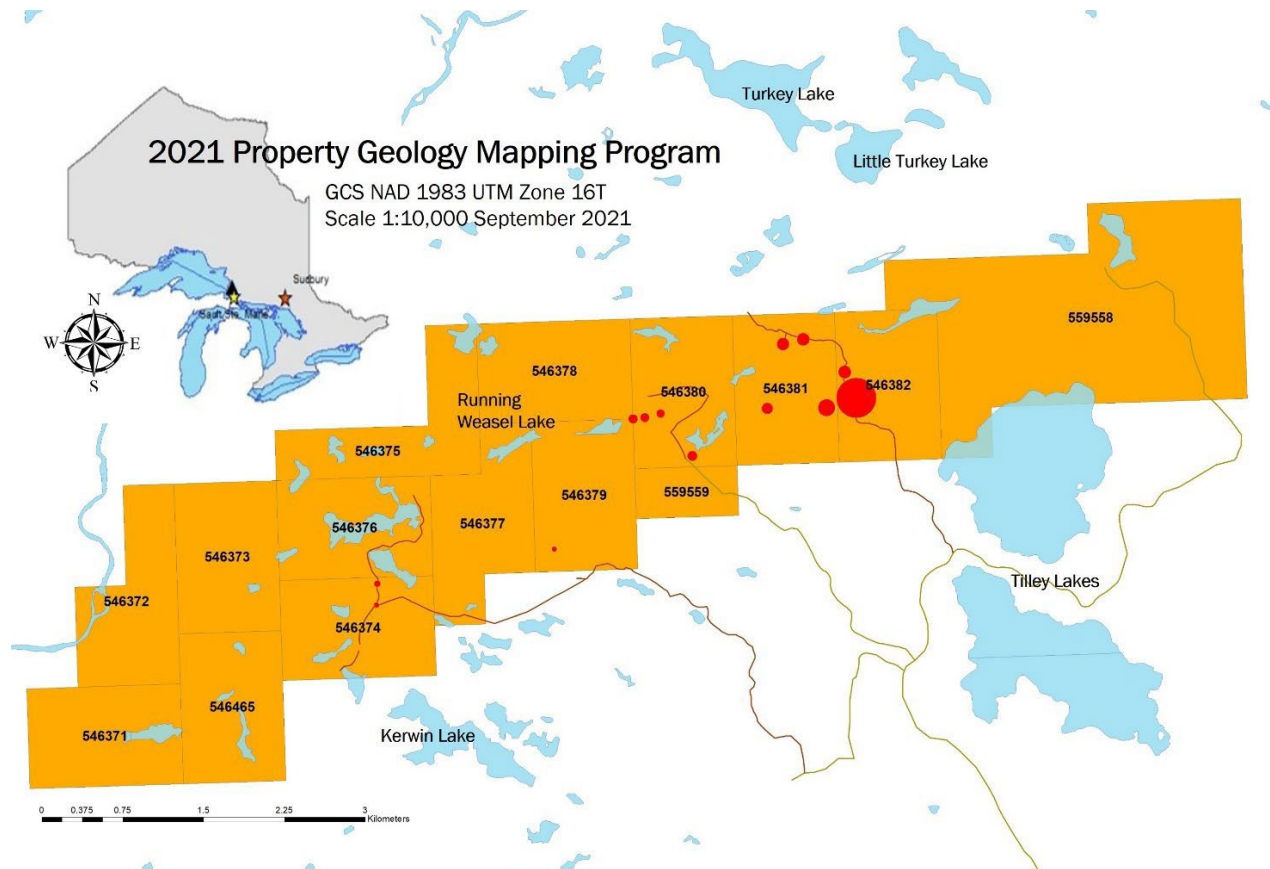
The soil Geochem program was focused over the IP anomalies identified in 2019. Weak gold anomalies appear to be associated with many of the IP anomalies. Follow up work in 2021 should consist of a focused property mapping project to be followed up with airborne geophysics.

## CHAPTER 2: 2021 Geological Survey- Small Scale Structural Mapping

### Introduction

Based on the recommendations of the 2020 soil Geochem sample program, a small-scale geology mapping program was conducted on the Wish Ore Property. The program was carried out by F. Berniolles and G. MacKay between May 17<sup>th</sup> and 27<sup>th</sup>, 2021. Mapping on the property during the May 2021 fieldwork was largely restricted to the panel south of the Carp River Fault. This panel hosts most of the known mineralization.

Work was carried out in two stages. Initially, the principal showings were examined for key structural characteristics related to mineralization controls, and subsequent work was focused on acquiring a sufficient distribution of structural and lithological data to allow for interpretation of property geology.



Map 7: 2021 Structural Geological Mapping Survey- Areas of Study Overview

### 2021 Property Geology Mapping Program

The property hosts several showings, both historical and recent, which share sufficient geological characteristics to suggest that they are generally related, and therefore have the potential to form a coherent mineralized system.

A full report on the program, including summaries of property geology, mineralization, gold distribution and Mineral potential and next-stage targeting is included as an appendix to this report.



*Images 2-4: Small-scale folding, a rarely developed mesoscale example of the otherwise widely developed crenulation found across the property (left). Kink bands, near Trench Zone – kinks like this may be related to late, brittle events, and may represent a stage of Proterozoic deformation (2). Francois Berniolles describing mineralogy (3).*

#### *Data Presentation:*

To meet the requirements of the technical reporting standard the data is presented and organized by day. Each day presents an overview map of the area traversed where structural data was recorded for final analysis and development of a final geological interpretation map. Outcrops discovered where examined and traced out roughly by GPS. The lithologies and outlines are presented in the daily logs and outcrop table.

Much of the work was guided by revisiting the previous worksites and programs. Where possible, historical samples, IP line cutting grids and trenches are referenced in the maps along with local features for reference. All small-scale maps use the NAD 1983 UTM Zone 16N datum.

#### *Daily Log:*

##### May 17, 2021

Francois Berniolles travel to Sudbury. Review of existing Wish Ore data and establish a workplan.

##### May 18, 2021

Organize equipment and travel from Sudbury to Sault Ste. Marie.

The following table "Map Ref" number corresponds to each outcrop map logged by day.

MAP REF	DATE	Z	EASTING	NORTHING	LITH SIMPLE	LITH CODE	LITH L3	LITH COMP	OUTCROP STATE	MAPPER	OBSERVATIONS
1	2021-05-19	16N	696746	5210802	1	1c		1c	outcrop	Francois Berniolles	fine variably altered basalt . 5m wide fecarbs altered , in good spatial correlation with veinlets
2	2021-05-19	16N	696315	5211402	6	6s	i	6si	outcrop	Francois Berniolles	medium grained grey biotite bearing diorite to quartz diorite . no notable foliation. abundant gungy brown mineral on weathering surface . .
3	2021-05-19	16N	696126	5211359	1	1c	p	1cp	outcrop	Francois Berniolles	pillowed mafics. slightly iron carbonate altered . weak foliation , parting .
4	2021-05-20	16N	694009	5209457	1	1c	t	1ct	outcrop	Francois Berniolles	somewhat laminated dark green mafic probable tuff , local minor iron carbonate alteration. one kink band . minor quartz veinlets to dm scale , with no carbonate .
5	2021-05-21	16N	692357	5209132	1	1a	t	1atq	outcrop	Francois Berniolles	fine medium green , blue quartz eye bearing felsic-intermediate volcanic to volcanoclastic. Lacana blast trenches.
6	2021-05-22	16N	694983	5210709	6	6d		6d	outcrop	Francois Berniolles	medium grained intermediate , nearly unfoliated , strongly magnetic . intrusive or very coarse volcanic
7	2021-05-22	16N	694863	5210676	6	6d	i	6di	outcrop	Francois Berniolles	medium to fine grained diorite , local very faint foliation . minor biotite .
8	2021-05-22	16N	694840	5210663	1	1a	t	1at	outcrop	Francois Berniolles	fine siliceous felsic , banding 37/51, to south . fine to medium grained intermediate intrusive to north .
9	2021-05-22	16N	694756	5210674	1	1b		1b	outcrop	Francois Berniolles	fine dark green probable intermediate volcanic . extremely straight face, possibly fault associated.
9	2021-05-23	16N	696748	5210825	1	1b	e	1be	outcrop	Francois Berniolles	medium green fine grained intermediate material with darker green dm scale bands and two 40cm scale beds of medium grained gritty light green epiclastic material . unaltered. minor buckled quartz veinlets .
10	2021-05-23	16N	696749	5210858	1	1b	e	1bet	outcrop	Francois Berniolles	weakly bedded outcrop, increasingly iron carbonate altered to north. moderate to strong foliation . probable intermediate to mafic , with paler, felsic looking beds or bands .
11	2021-05-23	16N	696751	5210879	1	1b	t	1bt	outcrop	Francois Berniolles	possibly waterlain probable intermediate volcanoclastic . heavily iron carbonate altered , veinlet proportion increasing from south to north , up to 20% of rock mass .
12	2021-05-23	16N	696775	5210895	1	1b	t	1bt	outcrop	Francois Berniolles	medium green where unaltered , fine grained , locally gritty and possibly bedded (epiclastic) intermediate . well foliated , patchy strong iron carbonate alteration , spatially correlative with veinlet frequency.

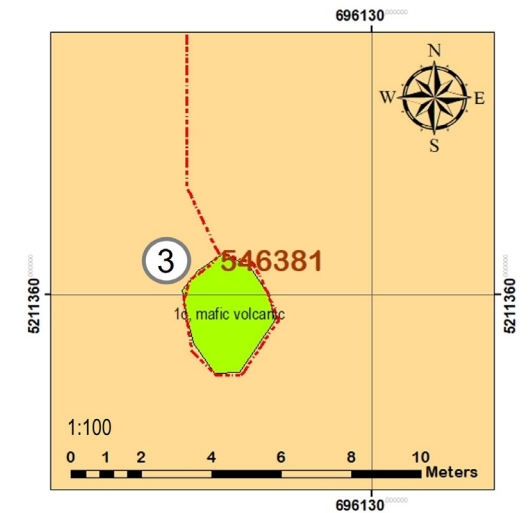
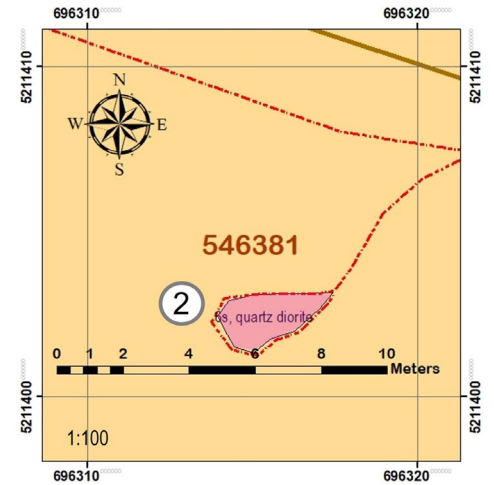
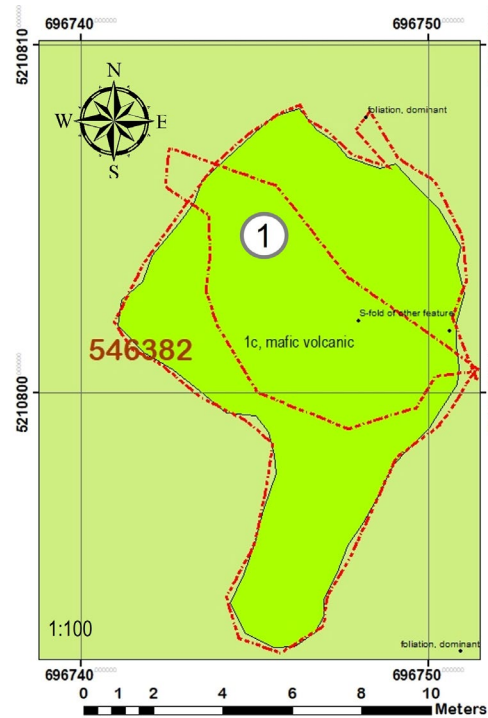
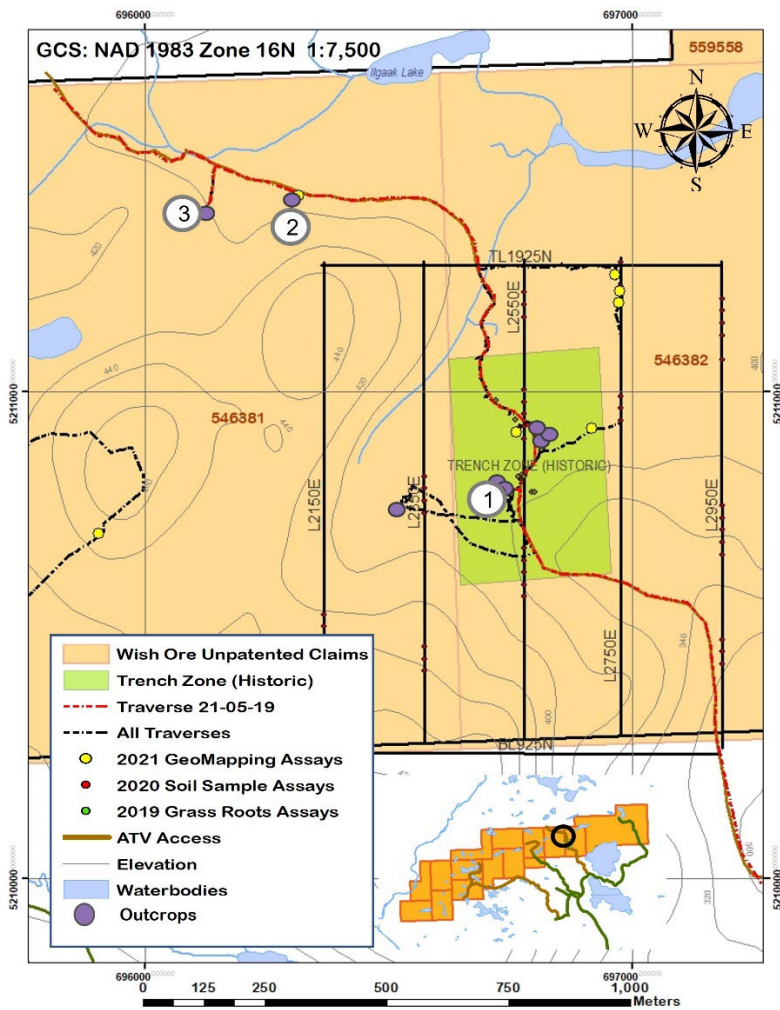
AWR-21-4080				Chapter 2: Geological Structural Mapping Survey							
13	2021-05-23	16N	696805	5211101	1	1c		1c	outcrop	Francois Berniolles	medium green fine grained intermediate to mafic flows .
14	2021-05-23	16N	696817	5210777	1	1b		1b	outcrop	Francois Berniolles	weakly laminated heavily iron carbonate altered , moderately foliated volcanic . protolith obfuscated by alteration . dismembered and buckled quartz veinlets .
15	2021-05-23	16N	696805	5210300	1	1c		1c	outcrop	Francois Berniolles	fine grained medium green weakly foliated unaltered mafic volcanic .
16	2021-05-23	16N	696702	5210308	1	1b	e	1be	outcrop	Francois Berniolles	light green probable intermediate , with beds of coarse white ash and rusty pelitic- but chloritized- material . bedded , probable epiclastic .
17	2021-05-23	16N	696536	5210077	1	1b	x	1bx	outcrop	Francois Berniolles	fine grained medium green flow breccia unit. trace sulphides locally .
			695314	5208946							
19	2021-05-24	16N	695317		1	1b		1b	outcrop	Francois Berniolles	weakly foliated bleached moderately iron carbonate altered intermediate to felsic volcanic . abundant irregular undeformed extensional quartz veining , euhedral centres , stockworky .
20	2021-05-24	16N	695980		7	7c	p	7cp	outcrop	Francois Berniolles	slightly iron carbonate altered , richly veined, undeformed extensional quartz veining . pebbles of felsic and cherty material , cm scale or smaller, matrix supported . possibly Archean, but Proterozoic likely. unfoliated
21	2021-05-24	16N	692358		1	1b		1bt	outcrop	Francois Berniolles	fine , banded medium green probable intermediate with minor , z folded ashy white felsic layers. foliation moderate , but contorted at m scale.
22	2021-05-26	16N			1	1b		1b	outcrop	Francois Berniolles	heavily iron carbonate altered intermediate to mafic volcanic with abundant moderately to heavily deformed quartz veinlets , up to 60% of rock mass in north end of outcrop .

Table 3: Location, Lithologies and Description of Outcrops



May 19, 2021

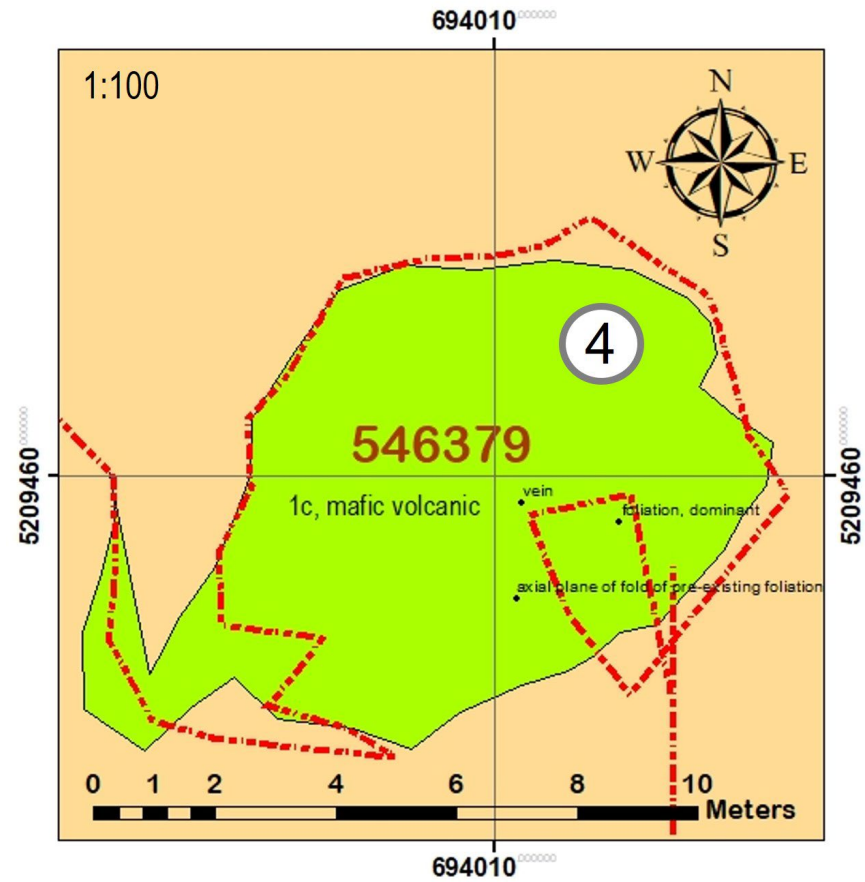
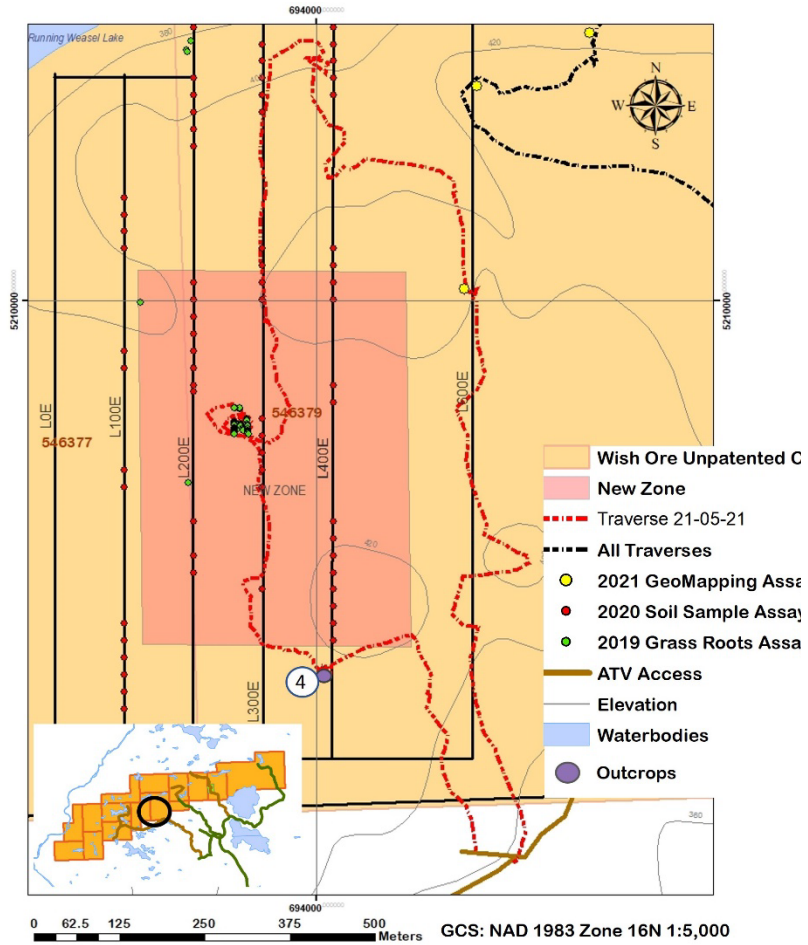
Travel from Sault Ste. Marie to property via Highway 17 to Mile 38 road. Approximately 6 kilometers from the highway turn left onto the Tilley Lakes access road. Six kilometers up the Tilley Lake to the property. Travel up tertiary forest road to Trench Zone. Traverse line approximately north to south along overgrown forest access across structure to the north edge of the property. Three outcrops were examined and recorded.



Map 8:2021-05-19 Mapping Program Overview

May 20, 2021

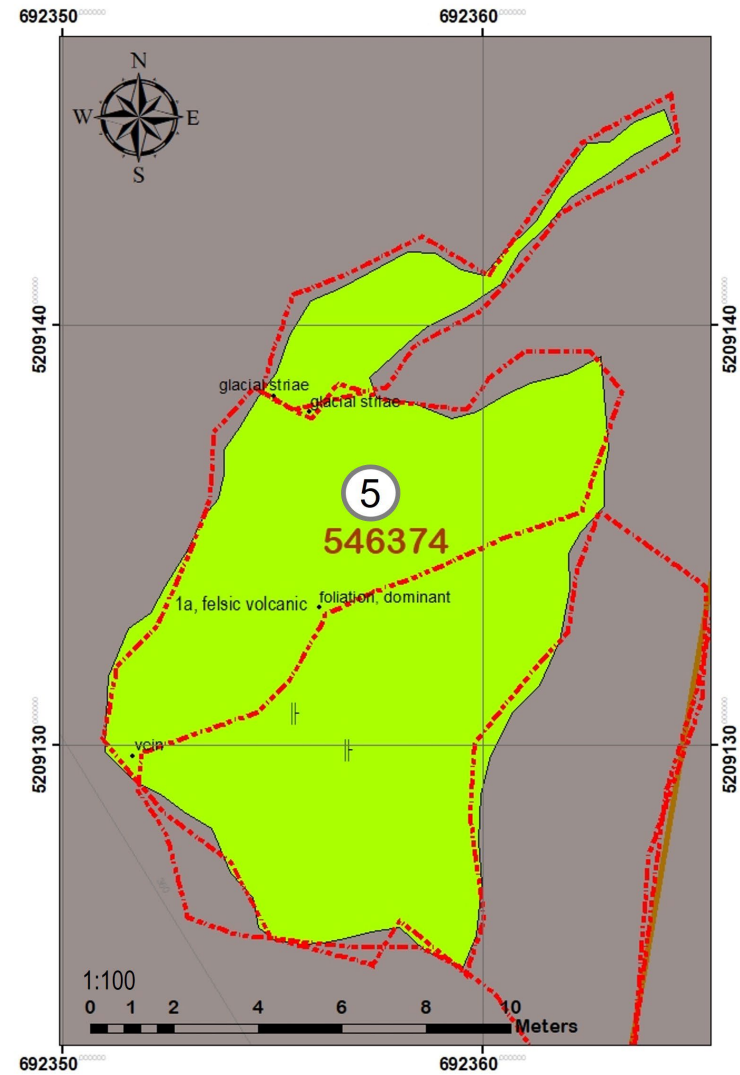
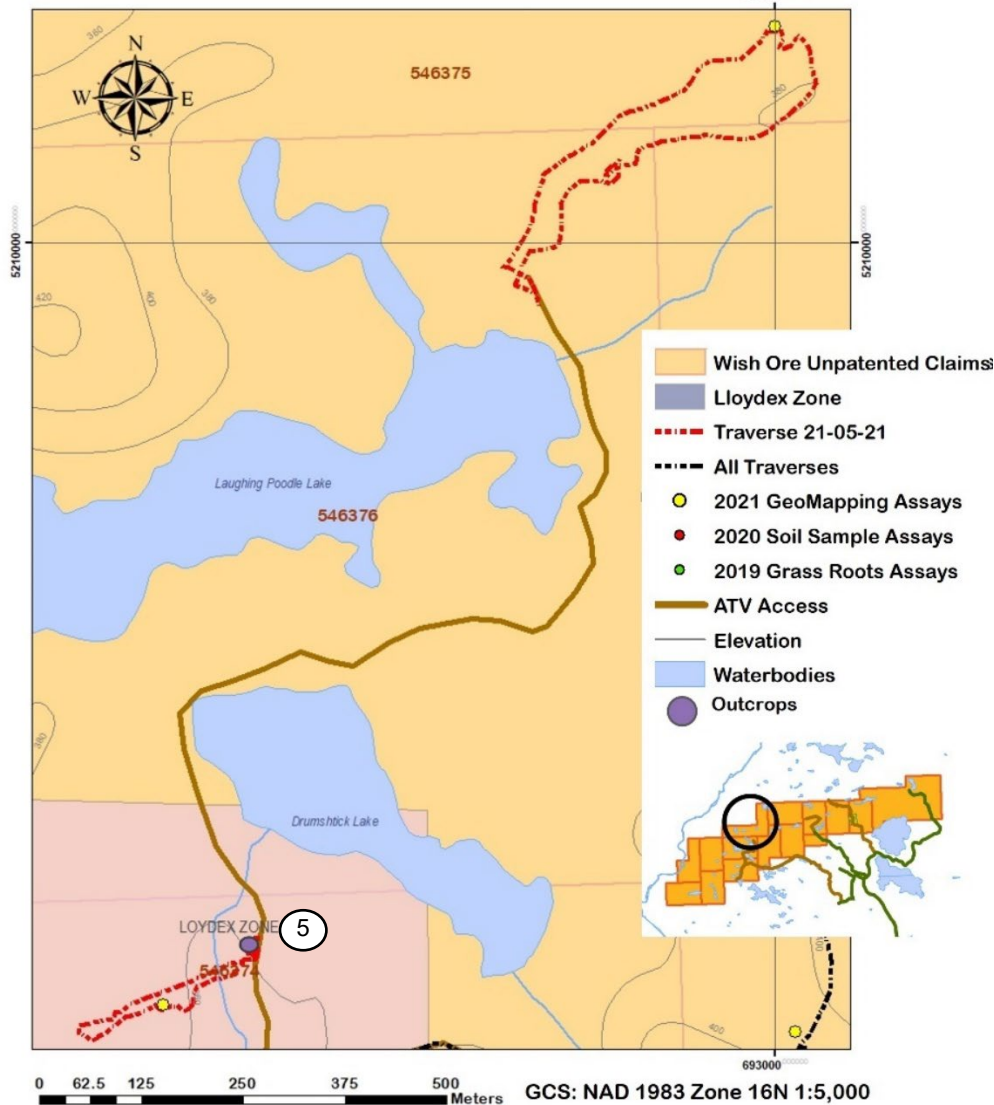
Travel to property. Travel up tertiary forest road by ATV to south edge of west grid. Map on the west grid including New Zone.





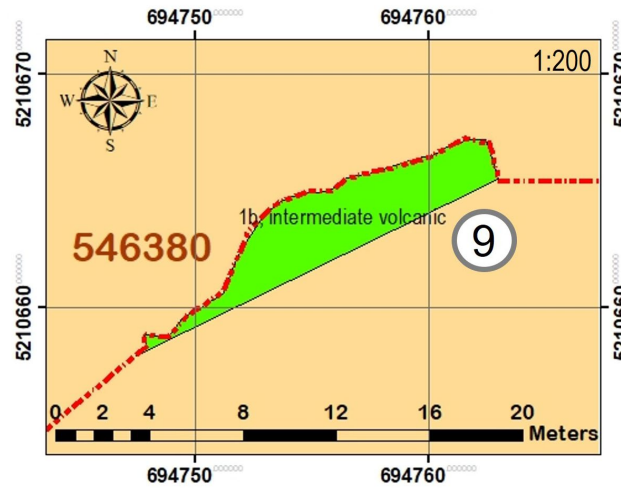
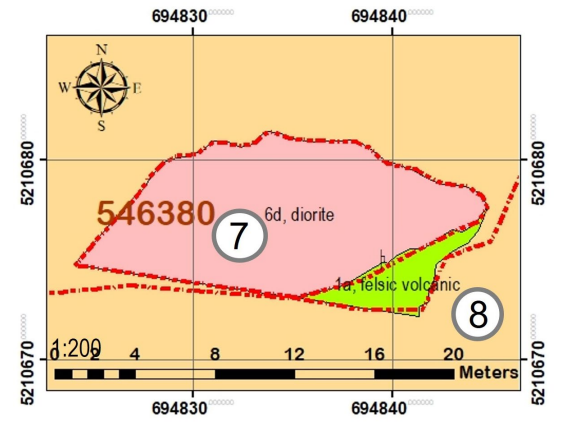
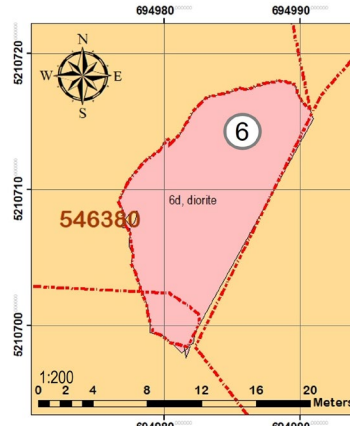
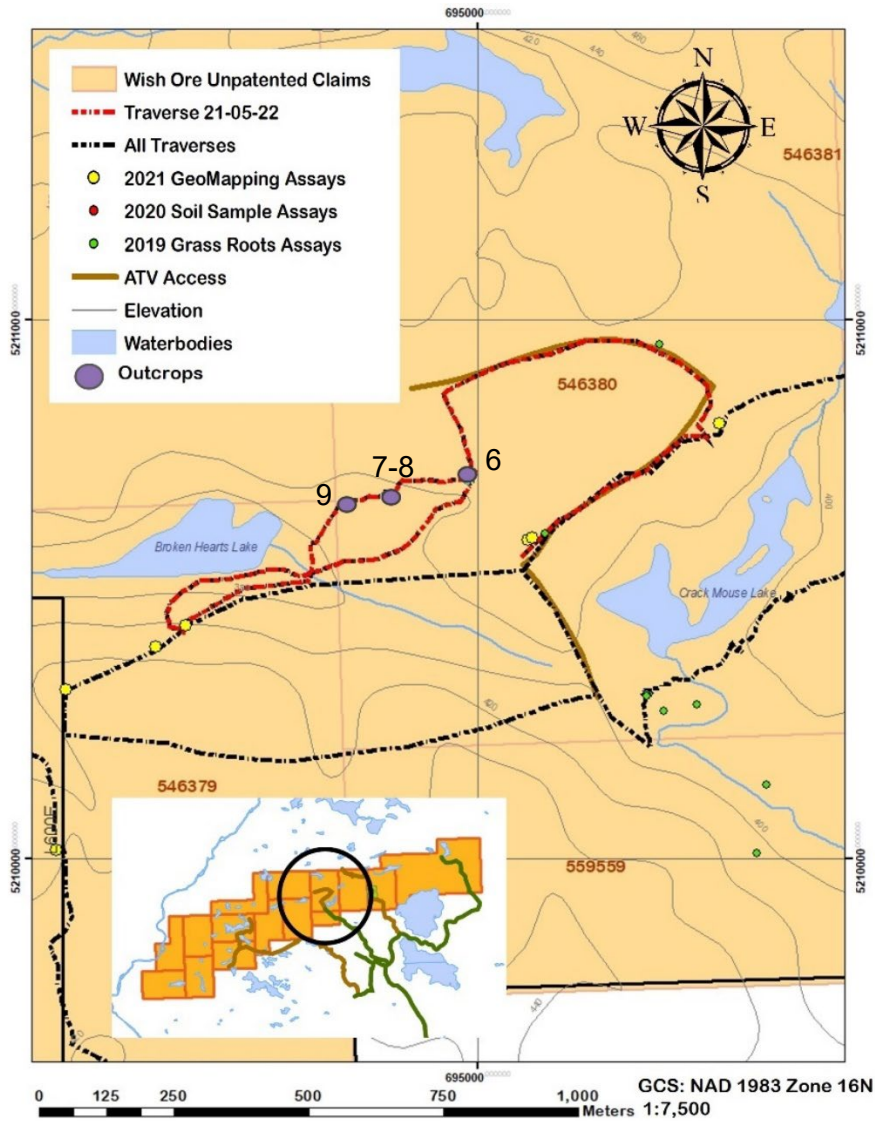
May 21, 2021

Travel to property. Travel by ATV up tertiary forest road to Loydex zone. Map in the area of the Loydex zone and north across the Carp River fault.



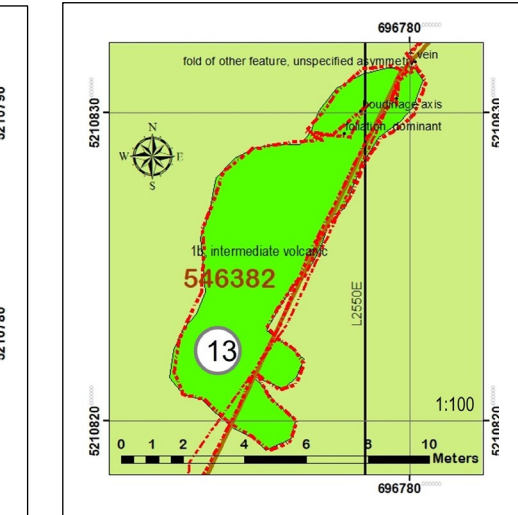
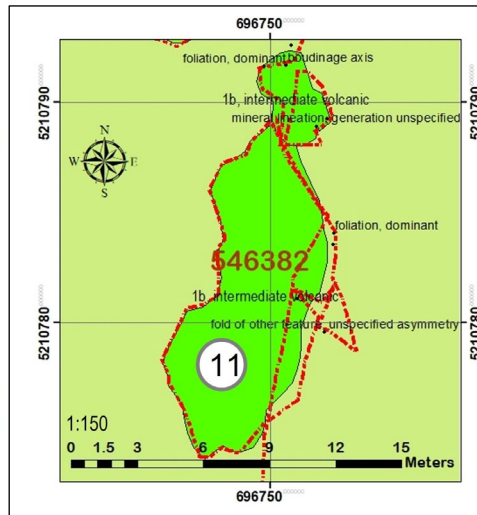
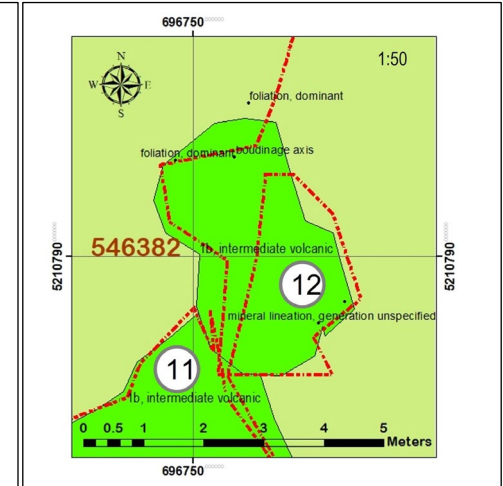
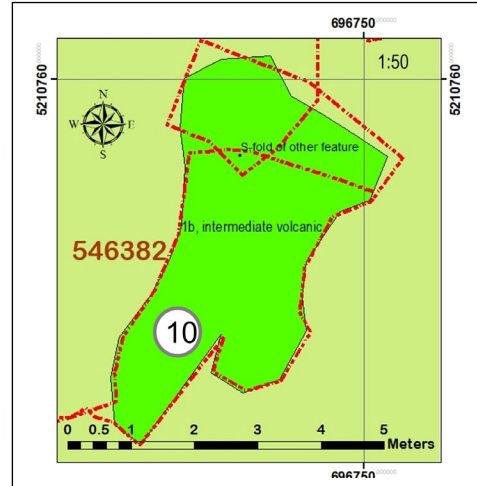
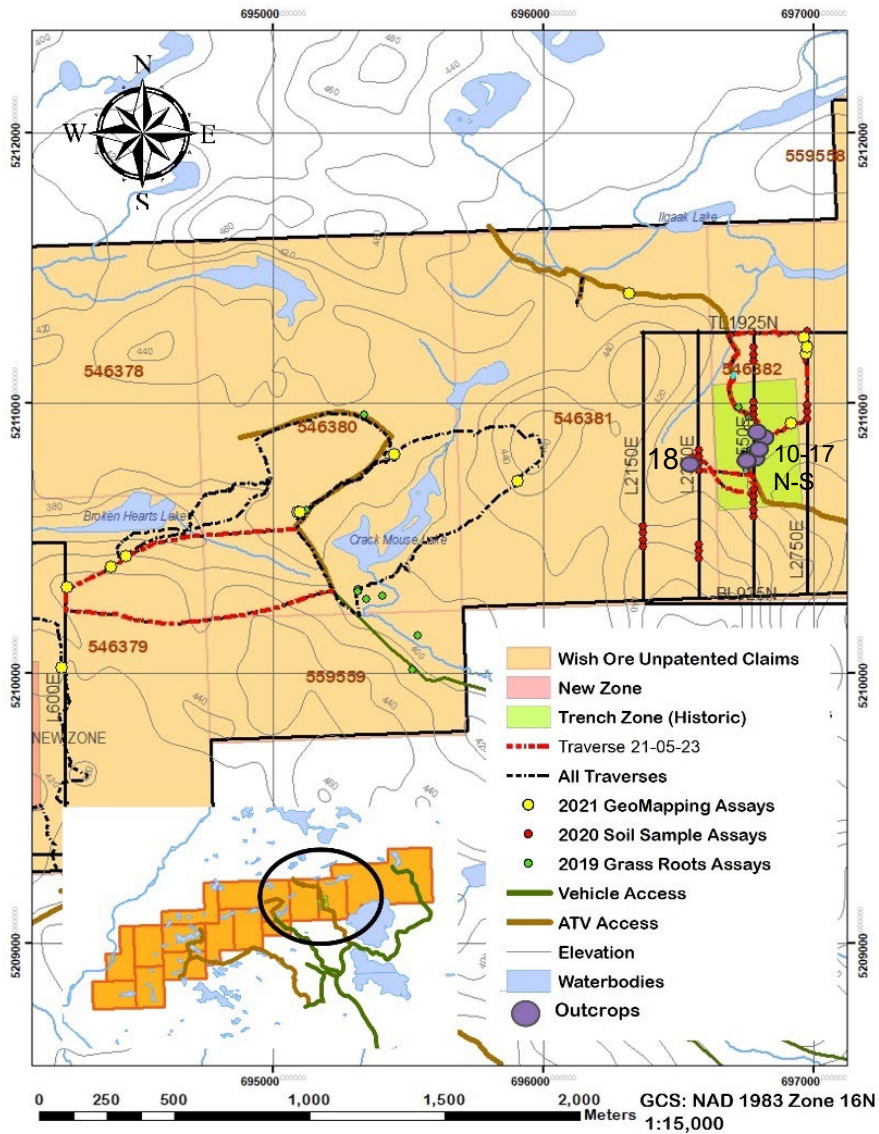
Map 10: 2021-05-22 Mapping Program Overview

Travel to property. Travel up Crack Mouse Lake road to Crack Mouse Lake. Map area west of the road toward the West Grid.



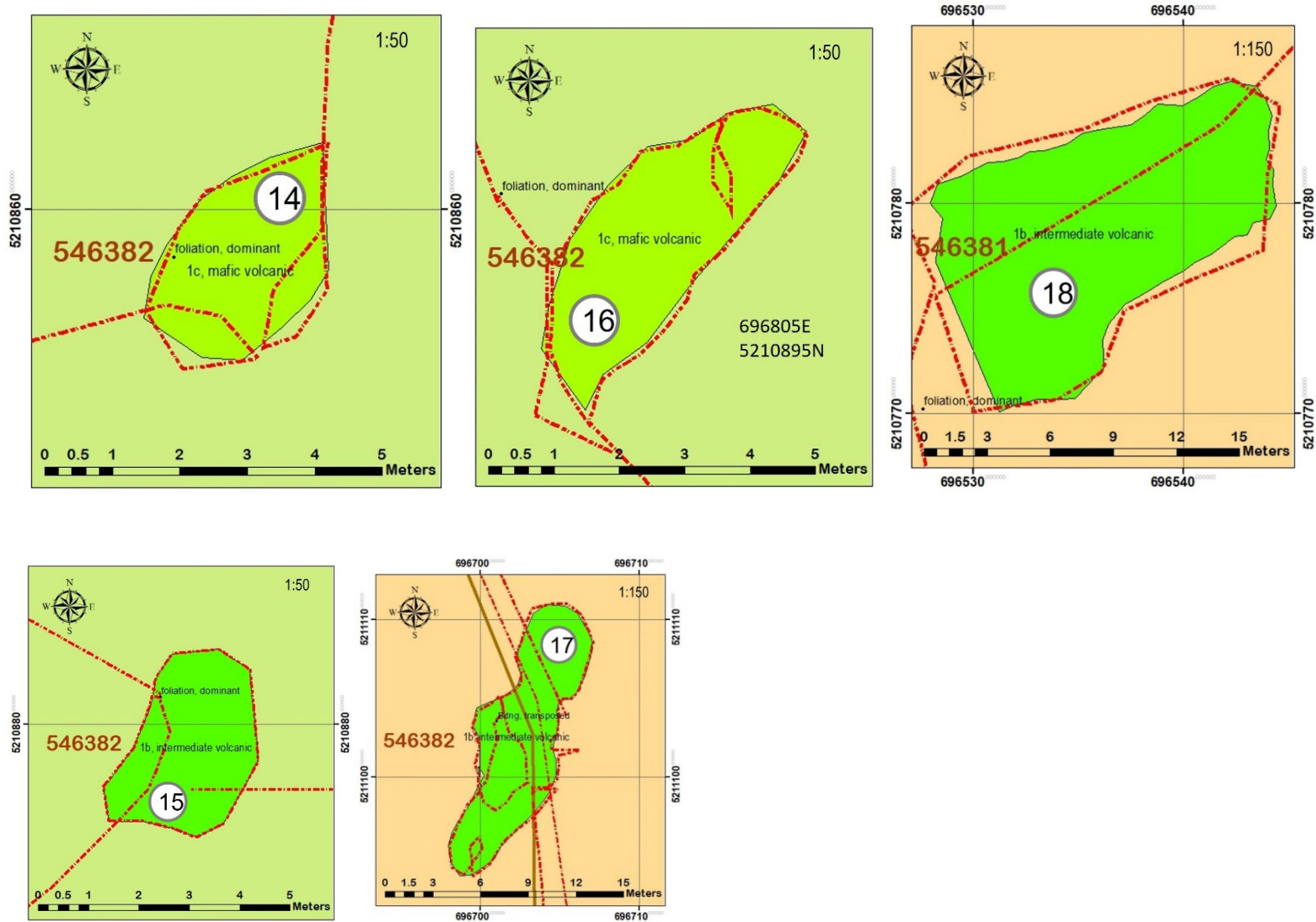
Map 11: 2021-05-22 Mapping Program Overview

Travel to the property. Map on the east grid at and around the Trench zone



Map 12:2021-05-23 Mapping Program Overview

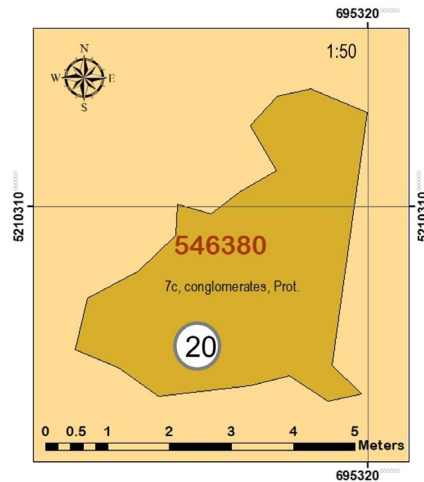
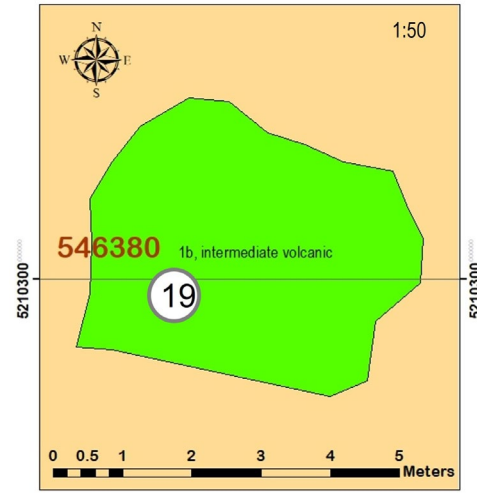
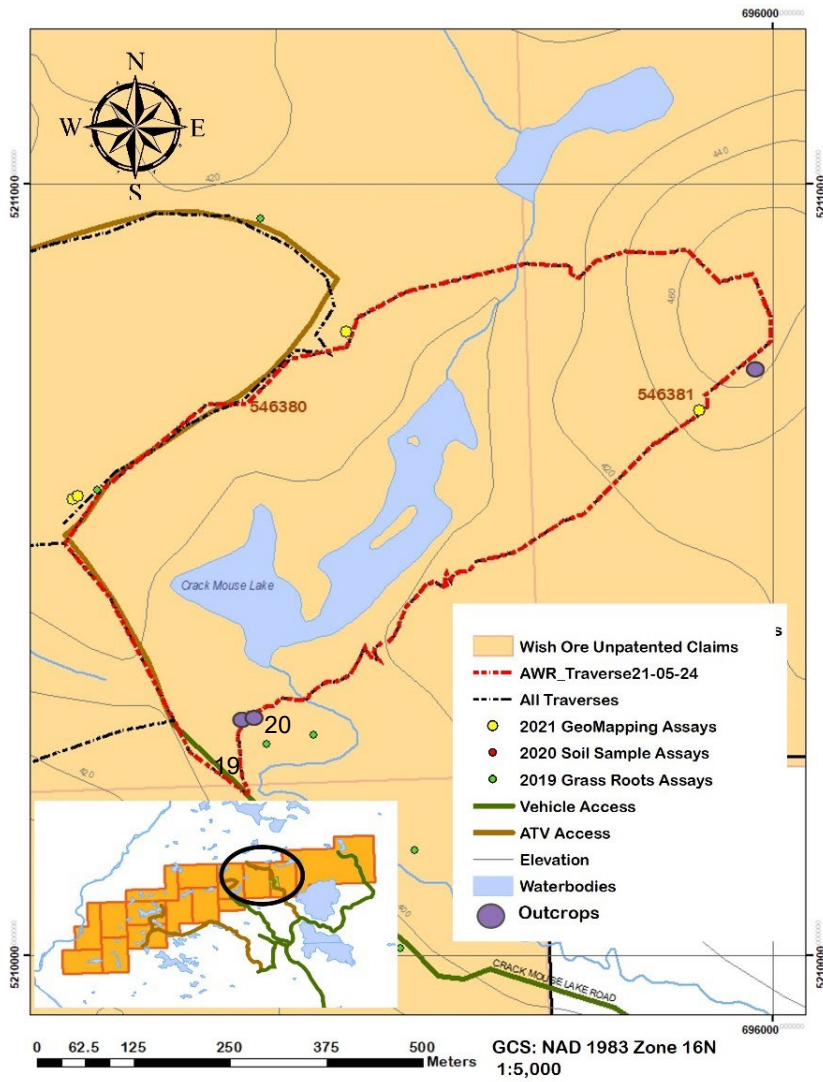




Map 13: 2021-05-23 outcrops

May 24, 2021

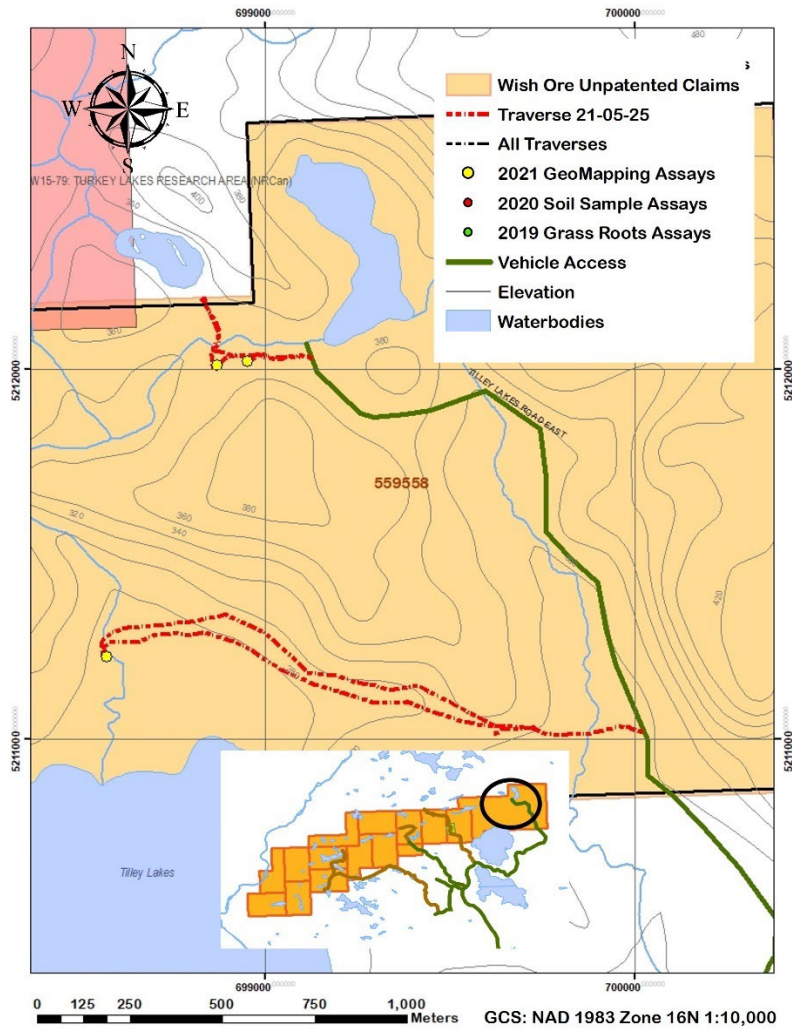
Travel to the property. Map around Crack Mouse Lake and east toward the east grid.



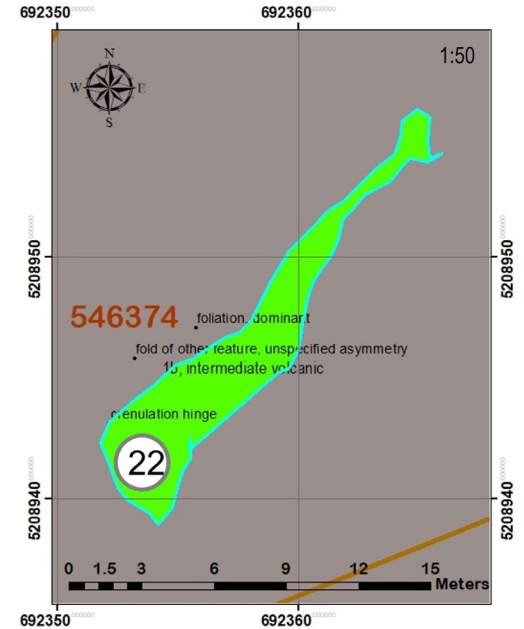
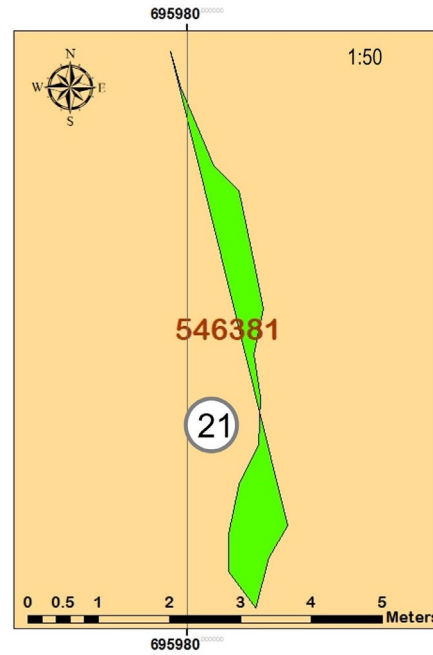
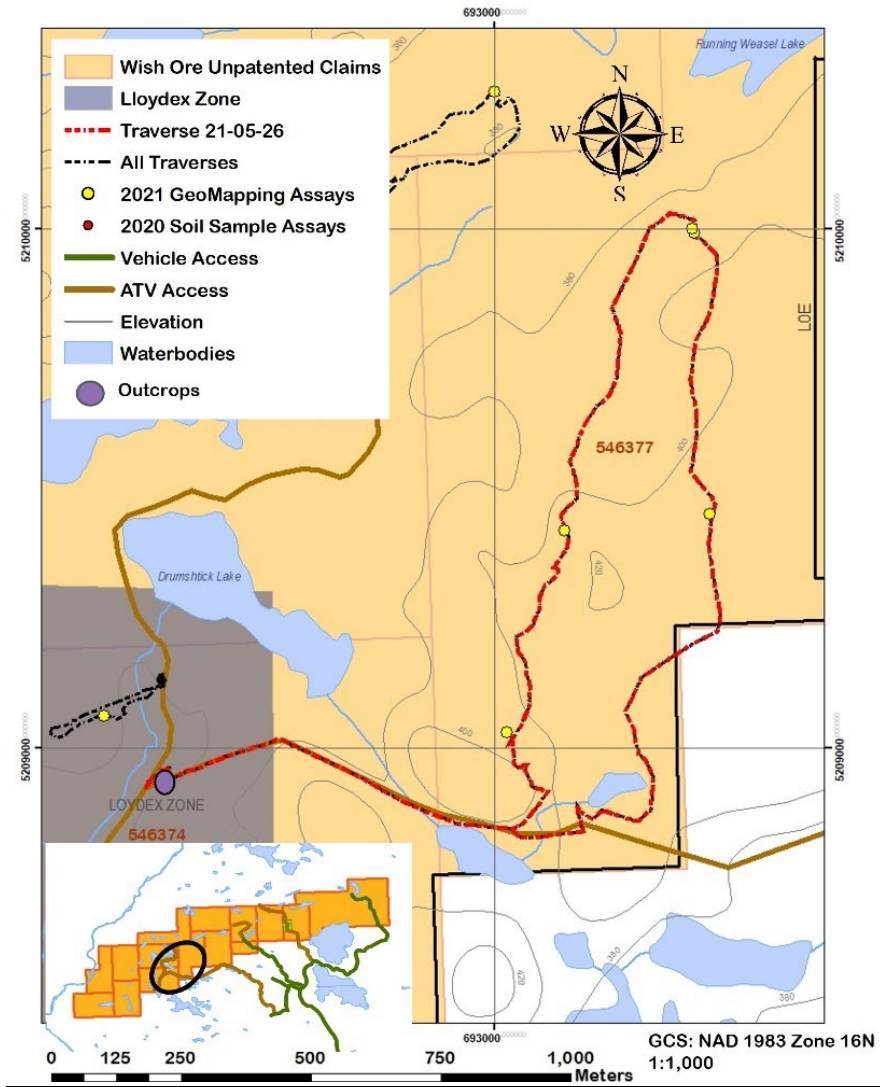
Map 14:2021-05-24 Mapping Program Overview

May 25, 2021

Travel to the property. Map the area east of the East Grid to the eastern edge of the property.



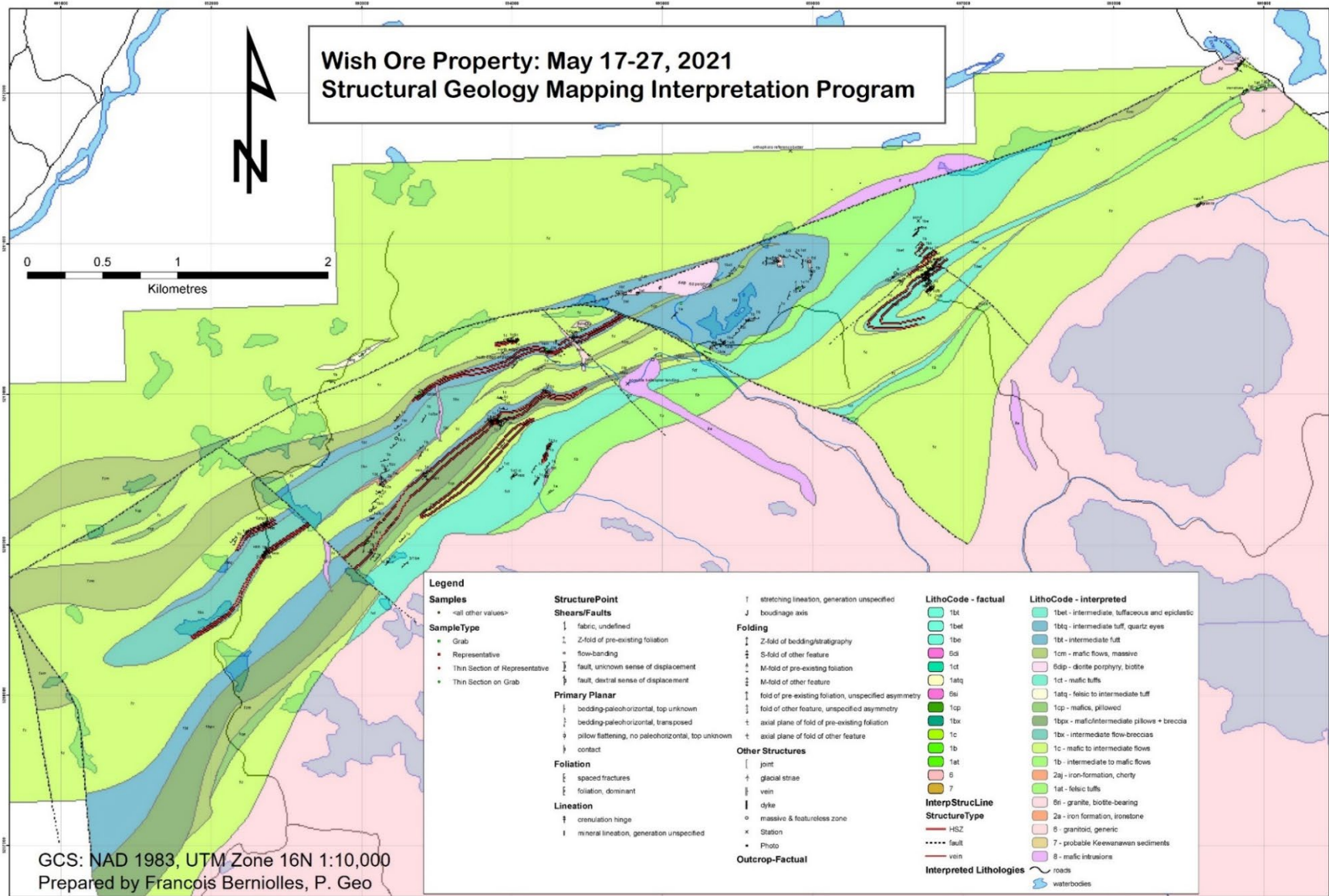
Map 15: 2021-05-25 Mapping Program Overview May 26, 2021



May 27  
Project Debrief



# WISH ORE 2021 PROPERTY GEOLOGY MAPPING CONCLUSIONS



Map 17: Final Geological Survey Interpretation



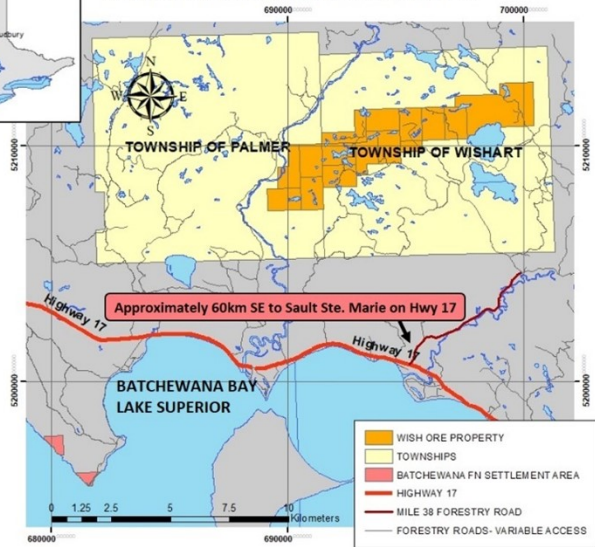
The conclusion of the 2021 mapping project indicates the known mineralization is localized along a high strain zone that locally shows evidence of shearing. The high strain zone extends across the property and is consistently associated with quartz carbonate alteration and veining. It is cut by later-northwest trending brittle faults but does not seem to be significantly offset by these faults. The zone is bounded on the north by the Carp River fault.

Further structural interpretation based on a LIDAR survey is recommended. In addition to the LIDAR survey, a detailed property scale airborne magnetic and VLF survey is recommended to help focus a detailed follow-up prospecting program.

# Wish Ore Property- Regional Map

GCS: NAD 1983 UTM 16N. Map Scale 1:125,000

Map By: MacKay Mining Solutions November 2019



## STATEMENT OF QUALIFICATIONS

I, Gordon C. MacKay, of 299 Birch Street, Lively Ontario hereby certify that:

1. I am the author of this report.
2. I graduated from the University of British Columbia, in Vancouver, with a Bachelor of Science Degree in Geology (1988).
3. I possess an Ontario prospector's license and have been practising my profession in mineral exploration industry for the past 30 years.
4. I am a practising member of the Association of Professional Geoscientists of Ontario.

Sudbury, Ontario  
Sept. 10, 2021



---

Gordon C. MacKay P. Geo.  
MacKay Mining Solutions



5623 McADAM ROAD  
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CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON  
16142 MORGAN CREEK CRES  
SURREY, BC V3Z 0J2  
604-682-2950

ATTENTION TO: GORDAN MACKAY

PROJECT:

AGAT WORK ORDER: 20T636050

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Aug 28, 2020

PAGES (INCLUDING COVER): 32

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (200-) Sample Login Weight

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	g
	RDL:	0.01
L100-075N (1344323)		187.6
L100-100N (1344324)		164.2
L100-125N (1344325)		112.2
L100-150N (1344326)		193.0
L100-175N (1344327)		208.6
L100-200N (1344328)		236.6
L100-400N (1344329)		260.3
L100-425N (1344330)		190.5
L100-575N (1344331)		241.8
L100-600N (1344332)		132.0
L100-750N (1344333)		171.3
L100-775N (1344334)		191.8
L100-800N (1344335)		136.6
L100-825N (1344336)		108.4
L200-275N (1344337)		188.2
L200-300N (1344338)		368.8
L200-350N (1344339)		185.1
L200-550N (1344340)		151.4
L200-575N (1344341)		282.4
L200-600N (1344342)		183.4
L200-625N (1344343)		173.5
L200-650N (1344344)		145.1
L200-675N (1344345)		216.0
L200-700N (1344346)		161.1
L200-900N (1344347)		230.8
L200-925N (1344348)		225.3
L200-950N (1344349)		232.2
L200-975N (1344350)		215.3
L200-1000N (1344351)		152.1
L200-1075N (1344352)		213.1
L200-1100N (1344353)		212.8

Certified By:





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CLIENT NAME: MISC AGAT CLIENT ON

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(200-) Sample Login Weight

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	g
	RDL:	0.01
L200-1125N (1344354)		210.0
L300-250N (1344355)		244.3
L300-400N (1344356)		184.5
L300-425N (1344357)		125.0
L300-450N (1344358)		238.5
L300-475N (1344359)		185.9
L300-500N (1344360)		163.8
L300-675N (1344361)		182.7
L300-700N (1344362)		202.0
L300-725N (1344363)		227.5
L300-750N (1344364)		182.9
L300-950N (1344365)		153.0
L300-975N (1344366)		187.0
L300-1000N (1344367)		190.6
L300-1025N (1344368)		195.7
L300-1050N (1344369)		157.7
L400-175N (1344370)		266.7
L400-200N (1344371)		228.4
L400-225N (1344372)		169.5
L400-250N (1344373)		189.9
L400-275N (1344374)		154.0
L400-300N (1344375)		164.6
L400-325N (1344376)		134.6
L400-350N (1344377)		200.1
L400-525N (1344378)		202.5
L400-550N (1344379)		163.5
L400-675N (1344380)		269.6
L400-700N (1344381)		163.0
L400-725N (1344382)		189.7
L400-750N (1344383)		195.5
L400-975N (1344384)		153.6

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## (200-) Sample Login Weight

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	g
	RDL:	0.01
L400-1000N (1344385)		170.3
L400-1025N (1344386)		165.9
L400-1050N (1344387)		176.9
L400-1075N (1344388)		155.6
L400-1100N (1344389)		146.6
L2150-1125N (1344390)		106.2
L2150-1150N (1344391)		194.1
L2150-1175N (1344392)		195.5
L2150-1200N (1344393)		177.4
L2350-1075N (1344394)		167.8
L2350-1100N (1344395)		172.0
L2350-1125N (1344396)		163.4
L2350-1400N (1344397)		217.8
L2350-1425N (1344398)		134.5
L2350-1450N (1344399)		225.4
L2350-1475N (1344400)		217.9
L2550-1225N (1344401)		183.7
L2550-1250N (1344402)		123.9
L2550-1275N (1344403)		153.9
L2550-1300N (1344404)		174.2
L2550-1325N (1344405)		150.3
L2550-1550N (1344406)		167.7
L2550-1575N (1344407)		200.2
L2550-1600N (1344408)		185.4
L2550-1625N (1344409)		153.4
L2550-1650N (1344410)		191.5
L2550-1800N (1344411)		154.0
L2550-1825N (1344412)		177.9
L2550-1850N (1344413)		169.2
L2750-1575N (1344414)		210.3
L2750-1600N (1344415)		162.9

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(200-) Sample Login Weight

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020	DATE REPORTED: Aug 28, 2020	SAMPLE TYPE: Soil
Analyte:	Sample Login Weight		
Unit:	g		
RDL:	0.01		
Sample ID (AGAT ID)			
L2750-1625N (1344416)	126.6		
L2750-1850N (1344417)	165.2		
L2750-1900N (1344418)	181.2		
L2950-1100N (1344419)	207.0		
L2950-1125N (1344420)	149.0		
L2950-1150N (1344421)	209.2		
L2950-1325N (1344422)	156.9		
L2950-1350N (1344423)	204.8		
L2950-1375N (1344424)	179.6		
L2950-1400N (1344425)	150.0		
L2950-1425N (1344426)	207.0		
L2950-1725N (1344427)	135.5		
L2950-1775N (1344428)	141.8		
L2950-1800N (1344429)	167.4		
L2950-1825N (1344430)	205.5		
L2950-1850N (1344431)	154.2		
6622933 (1344432)	269.9		

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020							DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
L100-075N (1344323)	<0.5	6.78	<1	337	1.0	<1	1.21	<0.5	27	6.0	59.6	13.5	3.02	17	
L100-100N (1344324)	<0.5	6.77	<1	350	0.8	<1	1.16	<0.5	26	4.4	67.5	10.4	3.25	17	
L100-125N (1344325)	<0.5	3.89	3	323	0.6	<1	0.62	<0.5	26	1.4	59.4	17.2	7.46	29	
L100-150N (1344326)	0.7	3.71	<1	449	0.6	<1	0.55	<0.5	28	<0.5	38.2	3.9	1.22	12	
L100-175N (1344327)	0.6	5.65	2	517	0.8	<1	1.22	<0.5	29	1.5	46.0	6.9	1.29	16	
L100-200N (1344328)	<0.5	6.59	3	389	1.0	<1	1.37	<0.5	33	7.5	78.1	21.1	3.70	19	
L100-400N (1344329)	<0.5	7.98	7	311	1.2	<1	1.74	<0.5	57	15.3	169	211	2.71	17	
L100-425N (1344330)	<0.5	6.63	<1	406	1.1	<1	1.36	<0.5	40	7.6	63.5	16.6	2.87	17	
L100-575N (1344331)	<0.5	6.77	<1	441	1.1	<1	1.54	<0.5	34	7.7	63.2	13.2	2.50	17	
L100-600N (1344332)	<0.5	4.05	4	245	0.6	<1	0.22	<0.5	32	7.6	40.0	44.4	3.26	15	
L100-750N (1344333)	0.6	4.79	2	522	0.6	<1	0.30	<0.5	20	1.0	73.5	10.8	2.08	15	
L100-775N (1344334)	<0.5	5.68	<1	318	0.9	<1	1.24	0.7	28	6.3	76.9	20.6	5.81	30	
L100-800N (1344335)	0.7	4.39	3	430	0.7	<1	0.90	<0.5	26	1.8	54.6	5.5	3.32	27	
L100-825N (1344336)	<0.5	2.94	3	110	<0.5	<1	1.04	<0.5	18	6.1	69.0	6.3	1.50	10	
L200-275N (1344337)	0.7	4.06	<1	406	0.7	<1	0.83	<0.5	28	1.2	45.3	4.2	2.66	23	
L200-300N (1344338)	<0.5	6.90	<1	452	1.2	<1	2.20	<0.5	56	14.5	74.8	30.5	2.99	20	
L200-350N (1344339)	<0.5	5.33	2	338	0.8	<1	1.11	0.6	21	4.4	62.0	16.5	4.84	25	
L200-550N (1344340)	<0.5	6.94	<1	267	1.0	<1	2.09	<0.5	22	15.3	70.0	27.7	6.15	27	
L200-575N (1344341)	<0.5	6.80	1	455	1.1	<1	1.47	<0.5	31	8.2	73.1	13.9	3.62	21	
L200-600N (1344342)	<0.5	6.73	4	421	1.2	<1	1.49	<0.5	48	10.9	61.2	13.6	2.82	17	
L200-625N (1344343)	1.2	6.26	21	535	1.7	<1	1.59	2.6	93	25.6	90.3	199	8.07	24	
L200-650N (1344344)	<0.5	5.78	5	406	0.9	<1	1.28	<0.5	29	5.1	59.9	12.2	3.61	18	
L200-675N (1344345)	<0.5	5.44	5	366	0.9	<1	1.16	<0.5	26	11.6	84.5	38.9	4.15	19	
L200-700N (1344346)	0.5	5.86	1	454	1.0	<1	1.10	<0.5	34	5.3	57.4	10.0	2.91	18	
L200-900N (1344347)	0.6	3.10	<1	342	<0.5	<1	0.33	<0.5	34	12.5	484	8.6	2.55	13	
L200-925N (1344348)	<0.5	6.63	2	461	1.1	<1	1.96	<0.5	38	10.7	69.5	22.0	2.25	17	
L200-950N (1344349)	<0.5	4.62	<1	385	0.7	<1	1.02	<0.5	29	1.1	42.1	5.9	1.85	16	
L200-975N (1344350)	1.0	6.84	9	492	1.2	<1	1.69	2.0	48	23.2	92.2	61.1	3.13	18	
L200-1000N (1344351)	<0.5	5.27	3	385	0.9	<1	1.02	<0.5	26	3.9	61.4	5.8	3.34	20	
L200-1075N (1344352)	0.6	4.02	5	404	0.8	<1	0.81	<0.5	26	1.9	45.6	13.0	5.74	23	
L200-1100N (1344353)	0.5	5.07	<1	465	0.9	<1	1.02	<0.5	31	2.0	47.3	17.0	1.95	16	
L200-1125N (1344354)	<0.5	8.04	2	275	1.2	<1	1.19	0.6	30	7.7	80.2	24.4	5.17	20	

Certified By:



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CLIENT NAME: MISC AGAT CLIENT ON

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(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020							DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
L300-250N (1344355)	0.5	7.12	2	421	1.3	<1	1.85	<0.5	71	16.2	75.6	186	2.49	16	
L300-400N (1344356)	<0.5	6.03	4	328	0.8	<1	0.95	<0.5	26	3.7	58.8	8.4	3.15	17	
L300-425N (1344357)	0.5	4.67	<1	399	0.8	<1	0.91	<0.5	28	2.2	49.8	11.5	3.13	22	
L300-450N (1344358)	<0.5	6.57	<1	407	1.0	<1	1.25	<0.5	34	4.9	64.9	5.5	3.19	19	
L300-475N (1344359)	<0.5	7.02	<1	344	1.0	<1	1.14	<0.5	27	5.9	60.1	8.3	3.58	19	
L300-500N (1344360)	<0.5	5.19	4	343	0.8	<1	0.91	<0.5	23	3.0	75.0	9.2	5.02	30	
L300-675N (1344361)	0.6	4.75	2	355	0.8	<1	0.43	<0.5	32	12.2	61.2	20.8	3.64	19	
L300-700N (1344362)	0.5	6.42	3	434	1.0	<1	1.33	0.5	29	7.0	62.5	6.2	2.94	18	
L300-725N (1344363)	0.6	5.27	<1	452	0.9	<1	1.01	<0.5	33	3.7	53.6	5.5	3.23	20	
L300-750N (1344364)	0.5	5.82	2	458	1.0	<1	1.30	<0.5	30	5.9	56.3	6.7	2.89	19	
L300-950N (1344365)	0.6	5.31	4	419	0.9	<1	0.94	<0.5	34	5.2	56.2	12.2	3.88	22	
L300-975N (1344366)	<0.5	6.22	2	380	1.0	<1	1.38	<0.5	31	8.4	66.2	11.8	3.29	20	
L300-1000N (1344367)	<0.5	6.99	3	397	1.1	<1	1.67	<0.5	28	11.6	76.4	18.1	3.11	18	
L300-1025N (1344368)	<0.5	6.28	<1	409	1.2	<1	1.44	<0.5	31	8.4	62.8	9.0	3.08	18	
L300-1050N (1344369)	0.6	5.44	3	416	0.9	<1	0.89	<0.5	31	5.0	54.6	14.2	3.82	22	
L400-175N (1344370)	<0.5	7.37	2	482	1.3	<1	2.60	<0.5	43	16.5	83.5	50.1	3.74	21	
L400-200N (1344371)	<0.5	6.68	3	425	1.1	<1	1.44	<0.5	54	8.3	65.7	30.4	2.77	17	
L400-225N (1344372)	<0.5	5.66	<1	354	0.9	<1	1.36	0.5	34	9.4	67.0	38.2	4.34	19	
L400-250N (1344373)	<0.5	5.47	2	388	0.8	<1	1.15	<0.5	31	4.6	58.8	28.1	3.23	19	
L400-275N (1344374)	<0.5	5.70	4	272	0.9	<1	0.65	<0.5	27	8.1	62.0	24.7	5.46	22	
L400-300N (1344375)	0.6	4.32	2	413	0.7	<1	0.81	<0.5	30	1.8	42.3	8.6	2.38	18	
L400-325N (1344376)	1.1	6.22	6	405	1.5	<1	1.24	1.7	97	48.0	59.6	31.6	2.93	18	
L400-350N (1344377)	<0.5	6.35	4	396	1.1	<1	1.38	<0.5	39	7.3	62.1	15.1	2.88	17	
L400-525N (1344378)	0.6	5.19	4	371	0.7	<1	0.98	<0.5	27	2.6	51.8	5.8	2.71	17	
L400-550N (1344379)	0.6	4.91	1	371	0.8	<1	0.86	<0.5	26	2.2	57.9	4.8	4.14	28	
L400-675N (1344380)	<0.5	6.62	2	371	1.0	<1	1.73	<0.5	40	13.3	81.5	40.5	3.64	19	
L400-700N (1344381)	0.5	5.06	<1	373	0.8	<1	0.91	<0.5	28	2.8	57.6	5.1	4.04	25	
L400-725N (1344382)	<0.5	5.26	1	328	0.9	<1	1.11	<0.5	26	6.6	63.8	12.5	4.53	23	
L400-750N (1344383)	<0.5	6.64	3	386	1.1	<1	1.56	<0.5	26	9.6	72.6	24.2	3.95	20	
L400-975N (1344384)	<0.5	6.40	4	346	0.9	<1	1.24	<0.5	28	6.5	64.7	6.7	3.35	17	
L400-1000N (1344385)	<0.5	5.75	<1	382	1.0	<1	1.02	<0.5	26	4.1	57.3	5.5	3.29	19	
L400-1025N (1344386)	0.6	4.71	1	461	0.7	<1	0.77	<0.5	30	1.4	44.9	5.9	2.27	18	

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020							DATE REPORTED: Aug 28, 2020				SAMPLE TYPE: Soil			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
L400-1050N (1344387)	<0.5	5.88	1	381	1.1	<1	1.25	0.6	44	7.4	61.7	16.7	3.90	20	
L400-1075N (1344388)	<0.5	5.12	<1	447	0.9	<1	1.50	<0.5	22	4.7	70.4	7.5	3.84	24	
L400-1100N (1344389)	0.5	5.14	2	410	0.8	<1	1.22	<0.5	36	4.3	68.5	16.7	5.10	26	
L2150-1125N (1344390)	0.6	2.52	2	210	<0.5	<1	0.99	<0.5	25	2.1	55.2	13.5	1.89	11	
L2150-1150N (1344391)	0.6	4.36	5	390	0.6	<1	1.96	<0.5	30	4.7	92.2	12.0	2.94	19	
L2150-1175N (1344392)	0.8	3.53	<1	389	0.6	<1	0.57	<0.5	28	<0.5	43.8	3.2	1.93	19	
L2150-1200N (1344393)	<0.5	5.21	<1	337	0.9	<1	1.07	<0.5	25	3.1	67.9	10.4	4.25	21	
L2350-1075N (1344394)	<0.5	5.67	<1	341	0.9	<1	1.11	0.6	26	6.1	64.9	9.0	3.84	20	
L2350-1100N (1344395)	<0.5	5.69	1	434	0.9	<1	1.16	<0.5	30	4.3	62.1	7.0	3.66	21	
L2350-1125N (1344396)	<0.5	5.61	<1	401	0.9	<1	1.45	<0.5	28	6.9	76.2	9.4	4.60	24	
L2350-1400N (1344397)	<0.5	4.85	2	345	0.7	<1	1.15	<0.5	25	2.4	68.6	4.4	4.83	29	
L2350-1425N (1344398)	0.7	3.27	<1	390	0.5	<1	0.69	<0.5	27	1.3	45.8	7.9	1.53	12	
L2350-1450N (1344399)	0.6	5.42	<1	435	0.9	<1	1.33	<0.5	25	4.8	69.9	9.9	2.40	22	
L2350-1475N (1344400)	0.7	4.09	<1	458	0.7	<1	0.68	<0.5	35	0.9	41.1	5.2	1.76	15	
L2550-1225N (1344401)	<0.5	6.12	1	442	1.0	<1	1.47	<0.5	31	9.0	65.0	13.2	2.73	17	
L2550-1250N (1344402)	<0.5	3.42	8	223	<0.5	<1	1.86	0.5	20	5.9	78.5	17.7	2.06	13	
L2550-1275N (1344403)	0.5	4.59	6	334	0.8	<1	0.31	<0.5	19	25.1	70.6	81.5	4.90	20	
L2550-1300N (1344404)	<0.5	6.99	4	359	1.1	<1	1.87	<0.5	63	27.5	83.9	46.5	3.46	18	
L2550-1325N (1344405)	<0.5	5.70	<1	370	0.9	<1	1.44	0.7	24	7.1	70.3	9.8	3.30	18	
L2550-1550N (1344406)	<0.5	6.29	2	420	1.1	<1	1.71	<0.5	69	10.5	92.5	19.3	3.00	18	
L2550-1575N (1344407)	<0.5	5.10	<1	337	0.7	<1	1.10	<0.5	26	4.4	65.7	6.4	4.18	24	
L2550-1600N (1344408)	<0.5	5.81	2	385	0.9	<1	1.29	<0.5	27	3.5	69.2	4.2	4.43	29	
L2550-1625N (1344409)	<0.5	4.86	5	364	0.7	<1	1.13	<0.5	24	3.4	60.5	4.0	4.25	27	
L2550-1650N (1344410)	0.5	4.74	<1	357	0.7	<1	1.23	<0.5	27	2.9	66.0	5.3	3.87	22	
L2550-1800N (1344411)	<0.5	5.71	5	282	0.8	<1	1.04	0.9	28	4.0	78.6	15.3	4.81	22	
L2550-1825N (1344412)	<0.5	5.58	2	403	0.8	<1	1.54	<0.5	23	5.6	72.1	5.9	3.71	21	
L2550-1850N (1344413)	<0.5	6.68	2	394	1.0	<1	1.50	<0.5	32	8.5	71.9	10.6	3.62	20	
L2750-1575N (1344414)	0.5	5.56	<1	497	1.0	<1	1.35	<0.5	34	5.6	63.3	10.7	3.09	20	
L2750-1600N (1344415)	<0.5	5.80	2	375	1.0	<1	1.34	<0.5	27	5.5	68.7	7.8	3.68	19	
L2750-1625N (1344416)	<0.5	5.81	1	343	1.0	<1	1.30	<0.5	48	11.2	89.5	22.6	5.73	27	
L2750-1850N (1344417)	0.6	3.01	<1	212	<0.5	<1	0.28	<0.5	19	1.6	27.6	3.7	2.00	11	
L2750-1900N (1344418)	<0.5	3.46	<1	309	0.7	<1	0.11	<0.5	53	20.7	582	34.3	3.55	18	

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020		DATE REPORTED: Aug 28, 2020		SAMPLE TYPE: Soil									
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
L2950-1100N (1344419)	<0.5	4.49	4	420	0.8	<1	1.26	0.6	27	6.1	61.8	14.6	2.41	15
L2950-1125N (1344420)	0.5	4.27	2	414	0.8	<1	1.13	0.5	27	6.4	61.2	13.5	2.65	17
L2950-1150N (1344421)	<0.5	6.69	4	254	1.2	<1	1.37	0.9	31	14.5	82.0	78.7	4.59	20
L2950-1325N (1344422)	<0.5	6.53	<1	394	1.1	<1	1.37	<0.5	26	5.8	70.6	8.3	3.96	23
L2950-1350N (1344423)	0.5	6.42	3	406	0.9	<1	1.52	<0.5	26	8.1	73.8	11.5	3.78	19
L2950-1375N (1344424)	<0.5	5.46	<1	334	0.8	<1	1.22	<0.5	22	5.9	73.2	7.7	5.14	26
L2950-1400N (1344425)	0.5	5.49	<1	359	0.9	<1	1.32	<0.5	27	6.8	65.0	29.8	4.02	20
L2950-1425N (1344426)	<0.5	5.79	<1	295	0.8	<1	1.66	0.5	22	8.7	77.1	14.4	4.37	21
L2950-1725N (1344427)	<0.5	4.90	1	393	0.7	<1	1.10	<0.5	26	3.1	63.1	9.0	4.20	22
L2950-1775N (1344428)	0.6	4.89	7	326	0.8	<1	1.13	0.7	30	5.1	65.3	16.5	2.94	16
L2950-1800N (1344429)	0.8	4.78	<1	413	0.9	<1	0.94	<0.5	35	2.4	49.3	6.0	2.58	18
L2950-1825N (1344430)	<0.5	8.01	2	214	1.1	<1	1.10	<0.5	55	20.9	97.1	32.4	4.62	17
L2950-1850N (1344431)	0.5	4.50	3	278	<0.5	<1	0.21	<0.5	28	1.0	108	13.5	1.62	13
6622933 (1344432)	1.2	6.09	10	463	1.2	<1	2.37	4.4	52	31.3	103	45.7	4.64	17

Certified By:



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PROJECT:

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## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020					DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1	
L100-075N (1344323)	<1	0.98	12	15	0.58	302	0.9	1.45	18.4	453	12	24	0.06	<1	
L100-100N (1344324)	<1	1.08	10	13	0.54	282	0.6	1.43	16.5	388	13	26	0.06	<1	
L100-125N (1344325)	<1	0.87	12	8	0.36	208	1.5	0.66	15.5	477	20	22	0.08	<1	
L100-150N (1344326)	<1	1.25	13	6	0.17	239	0.9	1.16	6.1	116	9	29	0.02	<1	
L100-175N (1344327)	<1	1.63	14	11	0.44	246	0.8	1.72	12.4	193	13	43	0.02	<1	
L100-200N (1344328)	<1	1.16	10	13	0.68	354	1.0	1.69	23.5	293	11	30	0.04	<1	
L100-400N (1344329)	<1	0.83	44	45	1.04	344	0.6	1.00	59.4	1060	11	30	0.08	<1	
L100-425N (1344330)	<1	1.30	11	14	0.66	343	1.2	1.66	24.7	393	15	34	0.04	<1	
L100-575N (1344331)	<1	1.38	15	14	0.78	475	0.9	1.85	23.0	631	10	40	0.03	<1	
L100-600N (1344332)	<1	0.74	14	8	0.27	324	3.3	1.18	15.4	670	36	26	0.09	<1	
L100-750N (1344333)	<1	1.88	9	13	0.32	149	2.7	0.67	13.3	582	24	50	0.07	<1	
L100-775N (1344334)	<1	0.81	8	11	0.65	336	2.2	1.31	24.6	538	16	21	0.07	<1	
L100-800N (1344335)	<1	1.12	12	8	0.42	234	1.5	1.12	16.1	199	23	28	0.03	<1	
L100-825N (1344336)	<1	0.24	8	6	0.38	198	1.9	0.78	13.2	320	29	<10	0.05	<1	
L200-275N (1344337)	<1	1.15	12	7	0.32	255	1.8	1.15	11.0	142	14	27	0.02	<1	
L200-300N (1344338)	<1	1.26	30	22	1.08	530	0.6	1.91	38.0	571	18	36	0.03	<1	
L200-350N (1344339)	<1	0.94	9	9	0.48	278	3.1	1.34	19.3	351	14	24	0.06	<1	
L200-550N (1344340)	<1	0.72	8	28	1.33	560	0.8	1.00	30.5	399	15	20	0.06	<1	
L200-575N (1344341)	<1	1.38	11	17	0.78	416	0.7	1.80	23.6	309	11	37	0.04	<1	
L200-600N (1344342)	<1	1.30	14	13	0.70	432	0.9	1.81	23.2	462	11	35	0.04	<1	
L200-625N (1344343)	<1	1.03	76	13	0.55	11300	6.4	1.38	61.5	1580	9	29	0.09	<1	
L200-650N (1344344)	<1	1.21	11	13	0.56	369	1.1	1.52	18.3	332	14	33	0.05	<1	
L200-675N (1344345)	<1	1.14	10	16	0.70	688	1.0	1.24	26.1	654	13	42	0.06	<1	
L200-700N (1344346)	<1	1.35	13	19	0.48	282	0.9	1.42	19.2	316	13	38	0.04	<1	
L200-900N (1344347)	<1	0.95	15	8	0.85	270	1.8	0.68	126	152	9	22	0.02	<1	
L200-925N (1344348)	<1	1.44	24	15	0.83	436	<0.5	2.05	28.5	563	11	39	0.02	<1	
L200-950N (1344349)	<1	1.09	13	8	0.42	275	2.1	1.30	12.2	230	12	33	0.02	<1	
L200-975N (1344350)	<1	1.20	17	21	0.63	6310	5.3	1.40	48.1	1930	11	37	0.09	<1	
L200-1000N (1344351)	<1	1.20	12	12	0.45	271	1.3	1.17	16.1	458	14	34	0.05	<1	
L200-1075N (1344352)	<1	1.25	12	8	0.36	263	2.1	0.96	11.0	414	20	37	0.04	<1	
L200-1100N (1344353)	<1	1.48	16	14	0.49	270	1.6	1.18	13.5	324	16	51	0.03	<1	
L200-1125N (1344354)	<1	0.69	11	11	0.72	354	1.0	1.20	21.7	677	10	17	0.07	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 28, 2020

SAMPLE TYPE: Soil

Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1
L300-250N (1344355)	<1	1.24	34	16	0.78	683	<0.5	1.87	42.8	522	9	33	0.04	<1
L300-400N (1344356)	<1	0.95	11	10	0.45	245	1.0	1.15	14.9	441	17	23	0.06	<1
L300-425N (1344357)	<1	1.14	13	8	0.38	268	2.1	1.29	13.7	321	15	29	0.03	<1
L300-450N (1344358)	<1	1.30	14	15	0.59	297	0.8	1.49	17.6	270	13	33	0.04	<1
L300-475N (1344359)	<1	1.02	11	14	0.58	298	0.8	1.42	17.5	381	12	25	0.05	<1
L300-500N (1344360)	<1	0.95	10	10	0.54	278	1.6	1.07	19.9	397	19	25	0.06	<1
L300-675N (1344361)	<1	0.99	15	13	0.59	1520	2.7	1.14	18.6	828	26	47	0.06	<1
L300-700N (1344362)	<1	1.34	13	15	0.63	406	1.0	1.58	19.4	407	11	35	0.04	<1
L300-725N (1344363)	<1	1.38	14	11	0.44	308	0.9	1.29	12.6	494	15	36	0.04	<1
L300-750N (1344364)	<1	1.42	13	11	0.55	439	0.9	1.61	16.9	459	14	38	0.04	<1
L300-950N (1344365)	<1	1.27	14	13	0.48	283	1.6	1.17	15.7	542	20	34	0.05	<1
L300-975N (1344366)	<1	1.11	13	12	0.68	406	1.1	1.54	21.7	613	13	29	0.05	<1
L300-1000N (1344367)	<1	1.15	10	13	0.87	504	0.8	1.85	30.3	491	9	31	0.04	<1
L300-1025N (1344368)	<1	1.24	12	14	0.64	437	1.0	1.66	20.5	400	11	35	0.04	<1
L300-1050N (1344369)	<1	1.26	14	12	0.41	318	1.2	1.13	12.7	517	17	35	0.05	<1
L400-175N (1344370)	<1	1.35	14	15	1.35	681	<0.5	2.41	50.5	554	10	38	0.02	<1
L400-200N (1344371)	<1	1.34	15	13	0.74	374	0.6	1.73	26.7	315	10	35	0.04	<1
L400-225N (1344372)	<1	1.01	13	10	0.70	449	0.9	1.44	24.1	449	14	25	0.06	<1
L400-250N (1344373)	<1	1.17	13	12	0.57	313	1.1	1.35	16.8	324	11	31	0.03	<1
L400-275N (1344374)	<1	0.80	11	11	0.37	440	1.9	0.74	12.8	690	12	19	0.08	<1
L400-300N (1344375)	<1	1.23	14	8	0.37	236	1.6	1.06	12.1	318	15	31	0.03	<1
L400-325N (1344376)	<1	0.98	21	17	0.54	7950	1.7	1.09	27.4	1390	23	28	0.12	<1
L400-350N (1344377)	<1	1.22	14	14	0.66	354	0.8	1.64	19.9	408	9	32	0.04	<1
L400-525N (1344378)	<1	1.06	14	11	0.36	224	1.5	1.30	12.7	292	12	26	0.04	<1
L400-550N (1344379)	<1	1.06	12	9	0.41	233	1.6	1.07	15.1	239	17	26	0.04	<1
L400-675N (1344380)	<1	1.03	12	12	1.03	517	0.7	1.76	37.7	674	11	26	0.05	<1
L400-700N (1344381)	<1	1.06	14	11	0.44	309	0.9	1.10	13.2	476	16	26	0.05	<1
L400-725N (1344382)	<1	0.93	10	10	0.63	400	0.8	1.26	20.7	779	16	24	0.07	<1
L400-750N (1344383)	<1	1.09	10	11	0.87	500	0.8	1.74	26.3	687	11	28	0.05	<1
L400-975N (1344384)	<1	1.04	12	11	0.61	358	0.8	1.43	18.0	494	11	27	0.05	<1
L400-1000N (1344385)	<1	1.22	12	12	0.46	290	1.0	1.25	13.9	430	14	32	0.05	<1
L400-1025N (1344386)	<1	1.39	14	8	0.28	220	1.6	1.18	10.1	259	14	40	0.03	<1

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020					DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil				
Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 1	Rb ppm 10	S % 0.01	Sb ppm 1	
L400-1050N (1344387)	<1	1.16	12	16	0.59	317	1.1	1.39	24.1	496	15	32	0.05	<1	
L400-1075N (1344388)	<1	1.19	7	8	0.61	402	1.6	1.64	20.1	257	14	37	0.04	<1	
L400-1100N (1344389)	<1	1.28	10	11	0.58	332	1.3	1.38	17.4	543	27	35	0.06	<1	
L2150-1125N (1344390)	<1	0.53	12	8	0.57	640	2.7	0.42	18.6	713	47	14	0.09	<1	
L2150-1150N (1344391)	<1	0.99	14	10	0.80	670	2.5	0.64	19.4	594	46	34	0.06	<1	
L2150-1175N (1344392)	<1	1.15	13	7	0.23	177	1.8	0.92	9.1	207	20	27	0.02	<1	
L2150-1200N (1344393)	<1	1.02	11	8	0.50	283	1.6	1.14	15.3	587	14	25	0.06	<1	
L2350-1075N (1344394)	<1	1.03	12	11	0.56	305	1.2	1.19	17.7	580	10	28	0.06	<1	
L2350-1100N (1344395)	<1	1.37	13	13	0.55	313	0.8	1.33	17.3	418	13	40	0.04	<1	
L2350-1125N (1344396)	<1	1.20	11	11	0.74	445	1.0	1.43	22.2	564	11	34	0.05	<1	
L2350-1400N (1344397)	<1	0.99	11	8	0.47	290	2.2	1.24	15.2	197	15	24	0.03	<1	
L2350-1425N (1344398)	<1	1.07	12	6	0.24	251	1.5	0.92	10.6	182	21	24	0.03	<1	
L2350-1450N (1344399)	<1	1.39	12	13	0.68	329	1.6	1.38	22.1	241	13	41	0.03	<1	
L2350-1475N (1344400)	<1	1.38	15	7	0.25	184	1.2	1.10	9.9	167	13	34	0.02	<1	
L2550-1225N (1344401)	<1	1.39	13	13	0.67	515	0.5	1.63	21.5	586	10	42	0.04	<1	
L2550-1250N (1344402)	<1	0.64	9	7	0.57	386	3.1	0.49	23.7	1070	51	23	0.11	<1	
L2550-1275N (1344403)	<1	0.98	8	8	0.45	766	4.0	1.35	46.3	624	31	31	0.07	<1	
L2550-1300N (1344404)	<1	1.04	13	15	1.02	719	0.7	1.73	42.4	567	8	30	0.04	<1	
L2550-1325N (1344405)	<1	1.10	10	11	0.68	388	0.9	1.49	20.9	415	9	28	0.04	<1	
L2550-1550N (1344406)	<1	1.27	19	22	0.77	437	0.7	1.51	31.5	582	11	40	0.04	<1	
L2550-1575N (1344407)	<1	0.95	12	9	0.56	291	1.3	1.27	18.4	263	13	23	0.04	<1	
L2550-1600N (1344408)	<1	1.11	12	12	0.59	326	1.4	1.37	16.3	160	14	29	0.02	<1	
L2550-1625N (1344409)	<1	1.09	12	9	0.49	291	1.5	1.28	16.7	235	23	29	0.03	<1	
L2550-1650N (1344410)	<1	1.02	12	8	0.52	340	2.0	1.19	15.6	183	13	27	0.03	<1	
L2550-1800N (1344411)	<1	0.80	13	11	0.53	280	2.0	1.05	17.5	346	22	21	0.06	<1	
L2550-1825N (1344412)	<1	1.21	10	10	0.69	364	1.0	1.66	23.0	237	16	31	0.04	<1	
L2550-1850N (1344413)	<1	1.19	13	14	0.78	382	1.2	1.68	24.1	336	11	31	0.04	<1	
L2750-1575N (1344414)	<1	1.56	15	16	0.62	332	1.1	1.50	18.7	341	13	47	0.03	<1	
L2750-1600N (1344415)	<1	1.10	12	15	0.60	326	1.2	1.38	19.1	357	11	30	0.04	<1	
L2750-1625N (1344416)	<1	0.98	12	20	0.86	396	1.0	1.27	32.3	500	17	29	0.06	<1	
L2750-1850N (1344417)	<1	0.58	9	5	0.31	378	1.7	1.20	10.7	208	11	13	0.04	<1	
L2750-1900N (1344418)	<1	0.80	22	5	0.45	413	2.4	0.68	165	211	13	17	0.04	<1	

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020					DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1
L2950-1100N (1344419)	<1	1.18	12	9	0.50	720	1.7	1.25	19.3	773	25	35	0.07	<1	
L2950-1125N (1344420)	<1	1.18	12	10	0.47	773	1.7	1.07	19.1	817	45	35	0.08	<1	
L2950-1150N (1344421)	<1	0.69	11	13	0.79	673	1.2	1.05	35.4	1290	8	19	0.08	<1	
L2950-1325N (1344422)	<1	1.24	11	15	0.68	368	0.9	1.44	21.5	427	13	34	0.04	<1	
L2950-1350N (1344423)	<1	1.24	10	13	0.72	393	0.8	1.67	26.9	279	12	31	0.04	<1	
L2950-1375N (1344424)	<1	0.97	10	11	0.65	329	1.5	1.17	22.5	409	15	24	0.05	<1	
L2950-1400N (1344425)	<1	1.09	10	10	0.64	397	0.9	1.38	21.0	371	11	27	0.05	<1	
L2950-1425N (1344426)	<1	0.81	8	9	0.82	416	1.0	1.45	25.9	291	12	19	0.05	<1	
L2950-1725N (1344427)	<1	1.16	12	8	0.43	266	2.6	1.27	18.9	291	14	30	0.04	<1	
L2950-1775N (1344428)	<1	0.91	12	9	0.52	307	3.0	1.02	21.6	555	59	25	0.07	<1	
L2950-1800N (1344429)	<1	1.23	15	9	0.37	241	1.7	1.22	12.0	304	15	29	0.04	<1	
L2950-1825N (1344430)	<1	0.59	10	10	0.83	425	2.0	1.61	38.6	513	6	15	0.06	<1	
L2950-1850N (1344431)	<1	0.79	13	11	0.10	134	2.1	1.10	10.0	147	11	17	0.02	<1	
6622933 (1344432)	<1	0.78	15	19	0.75	9270	6.9	1.21	67.5	2350	15	22	0.18	<1	

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020					DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil				
Analyte: Unit: RDL:	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	
Sample ID (AGAT ID)	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
L100-075N (1344323)	10	<10	<5	206	<10	<10	<5	0.30	<5	<5	71.0	<1	8	40.1	
L100-100N (1344324)	9	<10	<5	206	<10	<10	<5	0.29	<5	<5	69.0	<1	7	38.8	
L100-125N (1344325)	6	<10	<5	117	<10	<10	<5	0.49	<5	11	133	<1	6	48.5	
L100-150N (1344326)	7	<10	<5	164	<10	<10	<5	0.58	<5	<5	76.9	<1	7	21.9	
L100-175N (1344327)	7	<10	<5	254	<10	<10	<5	0.37	<5	<5	54.0	<1	8	27.5	
L100-200N (1344328)	11	<10	<5	249	<10	<10	<5	0.34	<5	<5	96.2	<1	8	36.6	
L100-400N (1344329)	24	<10	<5	146	<10	<10	<5	0.33	<5	<5	86.8	<1	47	57.6	
L100-425N (1344330)	9	<10	<5	236	<10	<10	<5	0.30	<5	<5	66.0	<1	9	54.3	
L100-575N (1344331)	11	<10	<5	265	<10	<10	<5	0.31	<5	<5	71.0	<1	11	56.7	
L100-600N (1344332)	15	<10	<5	74	<10	<10	<5	0.58	<5	<5	171	<1	7	70.4	
L100-750N (1344333)	22	<10	<5	105	<10	<10	<5	0.48	<5	<5	159	<1	6	29.9	
L100-775N (1344334)	9	<10	<5	202	<10	<10	<5	0.46	<5	7	135	<1	8	37.2	
L100-800N (1344335)	7	<10	<5	175	<10	<10	<5	0.49	<5	<5	135	<1	7	49.2	
L100-825N (1344336)	26	<10	<5	78	<10	<10	<5	0.43	<5	<5	157	<1	11	25.3	
L200-275N (1344337)	6	<10	<5	175	<10	<10	<5	0.53	<5	<5	141	<1	6	23.2	
L200-300N (1344338)	15	<10	<5	309	<10	<10	<5	0.50	<5	<5	95.4	<1	17	58.1	
L200-350N (1344339)	9	<10	<5	203	<10	<10	<5	0.47	<5	7	129	<1	8	25.3	
L200-550N (1344340)	20	<10	<5	203	<10	<10	<5	0.46	<5	8	147	<1	12	80.3	
L200-575N (1344341)	11	<10	<5	269	<10	<10	<5	0.37	<5	<5	89.9	<1	10	53.1	
L200-600N (1344342)	10	<10	<5	255	<10	<10	<5	0.31	<5	<5	72.2	<1	11	46.6	
L200-625N (1344343)	35	<10	<5	209	<10	<10	13	0.23	<5	<5	174	<1	68	134	
L200-650N (1344344)	8	<10	<5	223	<10	<10	<5	0.33	<5	<5	78.0	<1	8	56.5	
L200-675N (1344345)	13	<10	<5	182	<10	<10	<5	0.30	<5	<5	102	<1	8	60.4	
L200-700N (1344346)	8	<10	<5	214	<10	<10	<5	0.37	<5	<5	79.7	<1	8	68.4	
L200-900N (1344347)	7	<10	<5	102	<10	<10	<5	0.30	<5	<5	89.8	<1	6	48.9	
L200-925N (1344348)	11	<10	<5	292	<10	<10	<5	0.33	<5	<5	64.6	<1	15	66.9	
L200-950N (1344349)	14	<10	<5	175	<10	<10	<5	0.70	<5	<5	132	<1	11	26.1	
L200-975N (1344350)	12	<10	<5	211	<10	<10	8	0.27	<5	<5	76.8	<1	15	410	
L200-1000N (1344351)	8	<10	<5	184	<10	<10	<5	0.33	<5	<5	69.4	<1	8	51.8	
L200-1075N (1344352)	6	<10	<5	156	<10	<10	<5	0.40	<5	7	90.9	<1	7	39.8	
L200-1100N (1344353)	8	<10	<5	190	<10	<10	<5	0.39	<5	<5	65.0	<1	9	46.5	
L200-1125N (1344354)	13	<10	<5	190	<10	<10	<5	0.40	<5	7	88.3	<1	10	46.1	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020						DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil			
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
L300-250N (1344355)	16	<10	<5	268	<10	<10	<5	0.29	<5	<5	62.0	<1	47	37.6	
L300-400N (1344356)	8	<10	<5	170	<10	<10	<5	0.27	<5	<5	54.2	<1	8	33.6	
L300-425N (1344357)	7	<10	<5	186	<10	<10	<5	0.48	<5	<5	116	<1	8	28.3	
L300-450N (1344358)	9	<10	<5	226	<10	<10	<5	0.33	<5	<5	69.6	<1	9	56.6	
L300-475N (1344359)	9	<10	<5	196	<10	<10	<5	0.33	<5	<5	75.9	<1	8	42.8	
L300-500N (1344360)	8	<10	<5	164	<10	<10	<5	0.53	<5	8	137	<1	7	48.5	
L300-675N (1344361)	11	<10	<5	111	<10	<10	<5	0.45	<5	<5	136	<1	11	79.3	
L300-700N (1344362)	9	<10	<5	233	<10	<10	<5	0.34	<5	<5	76.3	<1	9	73.1	
L300-725N (1344363)	7	<10	<5	198	<10	<10	<5	0.38	<5	<5	70.4	<1	9	45.1	
L300-750N (1344364)	8	<10	<5	236	<10	<10	<5	0.35	<5	<5	72.6	<1	9	68.9	
L300-950N (1344365)	7	<10	<5	180	<10	<10	<5	0.39	<5	<5	74.1	<1	9	52.8	
L300-975N (1344366)	10	<10	<5	225	<10	<10	<5	0.33	<5	<5	80.7	<1	10	47.0	
L300-1000N (1344367)	12	<10	<5	261	<10	<10	<5	0.34	<5	<5	85.8	<1	10	56.6	
L300-1025N (1344368)	10	<10	<5	239	<10	<10	<5	0.34	<5	<5	82.6	<1	10	53.2	
L300-1050N (1344369)	7	<10	<5	174	<10	<10	<5	0.41	<5	<5	86.1	<1	9	37.9	
L400-175N (1344370)	16	<10	<5	353	<10	<10	<5	0.41	<5	<5	112	<1	14	70.1	
L400-200N (1344371)	11	<10	<5	246	<10	<10	<5	0.30	<5	<5	71.1	<1	11	54.9	
L400-225N (1344372)	10	<10	<5	207	<10	<10	<5	0.35	<5	6	93.7	<1	9	57.1	
L400-250N (1344373)	9	<10	<5	200	<10	<10	<5	0.35	<5	<5	76.8	<1	9	49.5	
L400-275N (1344374)	7	<10	<5	117	<10	<10	<5	0.30	<5	8	81.9	<1	8	42.0	
L400-300N (1344375)	6	<10	<5	166	<10	<10	<5	0.43	<5	<5	86.4	<1	7	31.9	
L400-325N (1344376)	10	<10	<5	168	<10	<10	6	0.29	<5	<5	68.3	<1	22	163	
L400-350N (1344377)	10	<10	<5	239	<10	<10	<5	0.32	<5	<5	67.6	<1	12	52.5	
L400-525N (1344378)	7	<10	<5	193	<10	<10	<5	0.33	<5	<5	67.8	<1	7	22.2	
L400-550N (1344379)	7	<10	<5	168	<10	<10	<5	0.50	<5	6	142	<1	7	25.6	
L400-675N (1344380)	13	<10	<5	257	<10	<10	<5	0.35	<5	<5	94.9	<1	11	46.8	
L400-700N (1344381)	7	<10	<5	169	<10	<10	<5	0.46	<5	5	107	<1	8	63.6	
L400-725N (1344382)	9	<10	<5	190	<10	<10	<5	0.42	<5	6	99.3	<1	9	45.6	
L400-750N (1344383)	12	<10	<5	256	<10	<10	<5	0.34	<5	<5	89.5	<1	10	47.6	
L400-975N (1344384)	10	<10	<5	210	<10	<10	<5	0.29	<5	<5	70.1	<1	9	49.2	
L400-1000N (1344385)	8	<10	<5	187	<10	<10	<5	0.33	<5	<5	72.3	<1	8	48.1	
L400-1025N (1344386)	6	<10	<5	177	<10	<10	<5	0.42	<5	<5	80.8	<1	7	29.2	

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020					DATE REPORTED: Aug 28, 2020					SAMPLE TYPE: Soil				
Analyte: Unit: RDL:	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	
Sample ID (AGAT ID)	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
L400-1050N (1344387)	9	<10	<5	207	<10	<10	<5	0.34	<5	<5	75.5	<1	10	72.5	
L400-1075N (1344388)	11	<10	<5	268	<10	<10	<5	0.58	<5	<5	162	<1	8	49.5	
L400-1100N (1344389)	8	<10	<5	204	<10	<10	<5	0.43	<5	7	100	<1	8	46.2	
L2150-1125N (1344390)	10	<10	<5	64	<10	<10	<5	0.62	<5	<5	72.6	<1	8	45.1	
L2150-1150N (1344391)	13	<10	<5	121	<10	<10	<5	0.76	<5	<5	175	<1	10	59.4	
L2150-1175N (1344392)	4	<10	<5	134	<10	<10	<5	0.50	<5	<5	108	<1	6	26.6	
L2150-1200N (1344393)	9	<10	<5	171	<10	<10	<5	0.41	<5	6	90.4	<1	9	32.2	
L2350-1075N (1344394)	9	<10	<5	175	<10	<10	<5	0.35	<5	5	86.5	<1	9	42.5	
L2350-1100N (1344395)	9	<10	<5	201	<10	<10	<5	0.41	<5	5	83.9	<1	9	52.1	
L2350-1125N (1344396)	11	<10	<5	209	<10	<10	<5	0.45	<5	6	103	<1	10	53.1	
L2350-1400N (1344397)	9	<10	<5	179	<10	<10	<5	0.60	<5	6	176	<1	7	29.7	
L2350-1425N (1344398)	5	<10	<5	135	<10	<10	<5	0.43	<5	<5	82.3	<1	6	25.8	
L2350-1450N (1344399)	10	<10	<5	210	<10	<10	<5	0.47	<5	<5	110	<1	9	48.8	
L2350-1475N (1344400)	5	<10	<5	170	<10	<10	<5	0.41	<5	<5	73.1	<1	6	20.4	
L2550-1225N (1344401)	10	<10	<5	238	<10	<10	<5	0.34	<5	<5	73.5	<1	11	78.7	
L2550-1250N (1344402)	17	<10	<5	81	<10	<10	<5	0.33	<5	<5	125	<1	11	74.4	
L2550-1275N (1344403)	21	<10	5	56	<10	<10	<5	0.98	<5	7	256	<1	12	95.0	
L2550-1300N (1344404)	14	<10	<5	245	<10	<10	<5	0.38	<5	<5	97.7	<1	14	82.6	
L2550-1325N (1344405)	10	<10	<5	213	<10	<10	<5	0.37	<5	<5	88.5	<1	8	60.3	
L2550-1550N (1344406)	13	<10	<5	217	<10	<10	<5	0.37	<5	<5	81.3	<1	16	75.2	
L2550-1575N (1344407)	8	<10	<5	178	<10	<10	<5	0.39	<5	5	98.9	<1	7	30.3	
L2550-1600N (1344408)	10	<10	<5	206	<10	<10	<5	0.57	<5	<5	161	<1	9	39.8	
L2550-1625N (1344409)	8	<10	<5	187	<10	<10	<5	0.48	<5	5	128	<1	7	32.6	
L2550-1650N (1344410)	10	<10	<5	174	<10	<10	<5	0.58	<5	<5	151	<1	9	29.3	
L2550-1800N (1344411)	9	<10	<5	151	<10	<10	<5	0.41	<5	7	110	<1	7	32.9	
L2550-1825N (1344412)	10	<10	<5	236	<10	<10	<5	0.39	<5	<5	100	<1	8	38.9	
L2550-1850N (1344413)	11	<10	<5	234	<10	<10	<5	0.35	<5	<5	88.2	<1	11	40.7	
L2750-1575N (1344414)	9	<10	<5	231	<10	<10	<5	0.41	<5	<5	85.4	<1	10	71.0	
L2750-1600N (1344415)	11	<10	<5	198	<10	<10	<5	0.39	<5	<5	92.1	<1	10	54.4	
L2750-1625N (1344416)	10	<10	<5	186	<10	<10	<5	0.44	<5	8	114	<1	10	81.9	
L2750-1850N (1344417)	7	<10	<5	78	<10	<10	<5	0.74	<5	<5	74.6	<1	6	21.9	
L2750-1900N (1344418)	16	<10	<5	44	<10	<10	<5	0.95	<5	<5	167	<1	9	48.7	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 28, 2020

SAMPLE TYPE: Soil

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5
Sample ID (AGAT ID)														
L2950-1100N (1344419)	8	<10	<5	193	<10	<10	<5	0.34	<5	<5	74.5	<1	8	83.0
L2950-1125N (1344420)	8	<10	<5	170	<10	<10	<5	0.37	<5	<5	81.9	<1	8	83.5
L2950-1150N (1344421)	12	<10	<5	153	<10	<10	<5	0.37	<5	6	105	<1	12	81.3
L2950-1325N (1344422)	10	<10	<5	209	<10	<10	<5	0.43	<5	5	99.7	<1	10	56.2
L2950-1350N (1344423)	10	<10	<5	236	<10	<10	<5	0.35	<5	<5	85.1	<1	9	63.4
L2950-1375N (1344424)	9	<10	<5	173	<10	<10	<5	0.44	<5	8	114	<1	8	50.1
L2950-1400N (1344425)	10	<10	<5	197	<10	<10	<5	0.39	<5	<5	97.3	<1	9	60.7
L2950-1425N (1344426)	12	<10	<5	201	<10	<10	<5	0.41	<5	6	112	<1	8	38.9
L2950-1725N (1344427)	8	<10	<5	209	<10	<10	<5	0.40	<5	<5	99.8	<1	7	40.4
L2950-1775N (1344428)	10	<10	<5	150	<10	<10	<5	0.44	<5	<5	100	<1	10	44.4
L2950-1800N (1344429)	7	<10	<5	180	<10	<10	<5	0.44	<5	<5	91.3	<1	8	29.3
L2950-1825N (1344430)	14	<10	<5	127	<10	<10	<5	0.23	<5	5	96.2	<1	10	84.5
L2950-1850N (1344431)	16	<10	<5	118	<10	<10	<5	0.35	<5	<5	166	<1	5	20.7
6622933 (1344432)	13	<10	<5	215	<10	<10	5	0.25	<5	<5	101	<1	18	455

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
L100-075N (1344323)				125
L100-100N (1344324)				122
L100-125N (1344325)				128
L100-150N (1344326)				192
L100-175N (1344327)				180
L100-200N (1344328)				116
L100-400N (1344329)				81
L100-425N (1344330)				129
L100-575N (1344331)				125
L100-600N (1344332)				72
L100-750N (1344333)				76
L100-775N (1344334)				81
L100-800N (1344335)				170
L100-825N (1344336)				54
L200-275N (1344337)				205
L200-300N (1344338)				145
L200-350N (1344339)				114
L200-550N (1344340)				82
L200-575N (1344341)				137
L200-600N (1344342)				134
L200-625N (1344343)				129
L200-650N (1344344)				127
L200-675N (1344345)				122
L200-700N (1344346)				146
L200-900N (1344347)				153
L200-925N (1344348)				155
L200-950N (1344349)				156
L200-975N (1344350)				106
L200-1000N (1344351)				138
L200-1075N (1344352)				156
L200-1100N (1344353)				144
L200-1125N (1344354)				73

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# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
L300-250N (1344355)				133
L300-400N (1344356)				124
L300-425N (1344357)				152
L300-450N (1344358)				130
L300-475N (1344359)				108
L300-500N (1344360)				126
L300-675N (1344361)				111
L300-700N (1344362)				148
L300-725N (1344363)				160
L300-750N (1344364)				144
L300-950N (1344365)				144
L300-975N (1344366)				128
L300-1000N (1344367)				127
L300-1025N (1344368)				125
L300-1050N (1344369)				145
L400-175N (1344370)				118
L400-200N (1344371)				139
L400-225N (1344372)				107
L400-250N (1344373)				147
L400-275N (1344374)				95
L400-300N (1344375)				174
L400-325N (1344376)				98
L400-350N (1344377)				132
L400-525N (1344378)				137
L400-550N (1344379)				150
L400-675N (1344380)				87
L400-700N (1344381)				165
L400-725N (1344382)				119
L400-750N (1344383)				106
L400-975N (1344384)				107
L400-1000N (1344385)				134
L400-1025N (1344386)				164

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# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020	DATE REPORTED: Aug 28, 2020	SAMPLE TYPE: Soil
Analyte: Zr	Unit: ppm	RDL: 5	
Sample ID (AGAT ID)			
L400-1050N (1344387)		111	
L400-1075N (1344388)		129	
L400-1100N (1344389)		132	
L2150-1125N (1344390)		87	
L2150-1150N (1344391)		127	
L2150-1175N (1344392)		207	
L2150-1200N (1344393)		122	
L2350-1075N (1344394)		106	
L2350-1100N (1344395)		138	
L2350-1125N (1344396)		124	
L2350-1400N (1344397)		145	
L2350-1425N (1344398)		187	
L2350-1450N (1344399)		167	
L2350-1475N (1344400)		183	
L2550-1225N (1344401)		140	
L2550-1250N (1344402)		55	
L2550-1275N (1344403)		90	
L2550-1300N (1344404)		108	
L2550-1325N (1344405)		108	
L2550-1550N (1344406)		118	
L2550-1575N (1344407)		129	
L2550-1600N (1344408)		154	
L2550-1625N (1344409)		145	
L2550-1650N (1344410)		155	
L2550-1800N (1344411)		104	
L2550-1825N (1344412)		129	
L2550-1850N (1344413)		125	
L2750-1575N (1344414)		155	
L2750-1600N (1344415)		121	
L2750-1625N (1344416)		112	
L2750-1850N (1344417)		125	
L2750-1900N (1344418)		130	

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# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

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 FAX (905)501-0589  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020	DATE RECEIVED: Aug 11, 2020	DATE REPORTED: Aug 28, 2020	SAMPLE TYPE: Soil
Analyte: Zr	Unit: ppm	RDL: 5	
Sample ID (AGAT ID)			
L2950-1100N (1344419)	129		
L2950-1125N (1344420)	130		
L2950-1150N (1344421)	76		
L2950-1325N (1344422)	132		
L2950-1350N (1344423)	129		
L2950-1375N (1344424)	108		
L2950-1400N (1344425)	120		
L2950-1425N (1344426)	104		
L2950-1725N (1344427)	137		
L2950-1775N (1344428)	135		
L2950-1800N (1344429)	183		
L2950-1825N (1344430)	83		
L2950-1850N (1344431)	141		
6622933 (1344432)	67		

Comments: RDL - Reported Detection Limit  
 1344323-1344432 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

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# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
L100-075N (1344323)				0.002
L100-100N (1344324)				0.001
L100-125N (1344325)				<0.001
L100-150N (1344326)				0.002
L100-175N (1344327)				0.001
L100-200N (1344328)				0.002
L100-400N (1344329)				0.005
L100-425N (1344330)				0.001
L100-575N (1344331)				0.002
L100-600N (1344332)				0.023
L100-750N (1344333)				0.019
L100-775N (1344334)				0.002
L100-800N (1344335)				0.004
L100-825N (1344336)				0.003
L200-275N (1344337)				0.004
L200-300N (1344338)				0.004
L200-350N (1344339)				0.002
L200-550N (1344340)				0.003
L200-575N (1344341)				0.003
L200-600N (1344342)				0.002
L200-625N (1344343)				0.008
L200-650N (1344344)				0.003
L200-675N (1344345)				0.003
L200-700N (1344346)				0.002
L200-900N (1344347)				0.025
L200-925N (1344348)				0.002
L200-950N (1344349)				0.004
L200-975N (1344350)				0.005
L200-1000N (1344351)				<0.001
L200-1075N (1344352)				0.002
L200-1100N (1344353)				0.013
L200-1125N (1344354)				0.001

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 28, 2020

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Au	ppm
L300-250N (1344355)				0.003	
L300-400N (1344356)				<0.001	
L300-425N (1344357)				0.003	
L300-450N (1344358)				<0.001	
L300-475N (1344359)				<0.001	
L300-500N (1344360)				0.001	
L300-675N (1344361)				0.003	
L300-700N (1344362)				0.002	
L300-725N (1344363)				<0.001	
L300-750N (1344364)				<0.001	
L300-950N (1344365)				0.002	
L300-975N (1344366)				0.002	
L300-1000N (1344367)				0.002	
L300-1025N (1344368)				0.008	
L300-1050N (1344369)				0.001	
L400-175N (1344370)				0.004	
L400-200N (1344371)				0.002	
L400-225N (1344372)				0.002	
L400-250N (1344373)				0.002	
L400-275N (1344374)				0.002	
L400-300N (1344375)				0.001	
L400-325N (1344376)				0.015	
L400-350N (1344377)				0.001	
L400-525N (1344378)				0.001	
L400-550N (1344379)				0.001	
L400-675N (1344380)				0.005	
L400-700N (1344381)				0.007	
L400-725N (1344382)				0.006	
L400-750N (1344383)				0.003	
L400-975N (1344384)				0.001	
L400-1000N (1344385)				<0.001	
L400-1025N (1344386)				0.002	

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 11, 2020      DATE RECEIVED: Aug 11, 2020      DATE REPORTED: Aug 28, 2020      SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
L400-1050N (1344387)		0.005	
L400-1075N (1344388)		0.004	
L400-1100N (1344389)		0.001	
L2150-1125N (1344390)		0.004	
L2150-1150N (1344391)		0.117	
L2150-1175N (1344392)		0.001	
L2150-1200N (1344393)		0.002	
L2350-1075N (1344394)		0.004	
L2350-1100N (1344395)		<0.001	
L2350-1125N (1344396)		0.010	
L2350-1400N (1344397)		0.002	
L2350-1425N (1344398)		0.005	
L2350-1450N (1344399)		0.042	
L2350-1475N (1344400)		<0.001	
L2550-1225N (1344401)		<0.001	
L2550-1250N (1344402)		0.008	
L2550-1275N (1344403)		0.002	
L2550-1300N (1344404)		0.004	
L2550-1325N (1344405)		<0.001	
L2550-1550N (1344406)		0.014	
L2550-1575N (1344407)		0.027	
L2550-1600N (1344408)		<0.001	
L2550-1625N (1344409)		0.001	
L2550-1650N (1344410)		<0.001	
L2550-1800N (1344411)		0.005	
L2550-1825N (1344412)		<0.001	
L2550-1850N (1344413)		<0.001	
L2750-1575N (1344414)		0.003	
L2750-1600N (1344415)		0.002	
L2750-1625N (1344416)		0.004	
L2750-1850N (1344417)		0.007	
L2750-1900N (1344418)		0.017	

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# Certificate of Analysis

AGAT WORK ORDER: 20T636050

PROJECT:

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 28, 2020

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
L2950-1100N (1344419)				<0.001
L2950-1125N (1344420)				<0.001
L2950-1150N (1344421)				0.005
L2950-1325N (1344422)				<0.001
L2950-1350N (1344423)				<0.001
L2950-1375N (1344424)				<0.001
L2950-1400N (1344425)				<0.001
L2950-1425N (1344426)				0.028
L2950-1725N (1344427)				0.005
L2950-1775N (1344428)				0.002
L2950-1800N (1344429)				<0.001
L2950-1825N (1344430)				0.002
L2950-1850N (1344431)				0.002
6622933 (1344432)				0.005

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:


**AGAT** Laboratories

Quality Assurance - Replicate

AGAT WORK ORDER: 20T636050

PROJECT:

 5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	1344323	< 0.5	< 0.5	0.0%	1344338	< 0.5	< 0.5	0.0%	1344363	0.6	0.6	0.0%	1344388	< 0.5	< 0.5	0.0%
Al	1344323	6.78	7.09	4.5%	1344338	6.90	7.18	4.0%	1344363	5.27	5.19	1.5%	1344388	5.12	5.10	0.4%
As	1344323	< 1	2		1344338	< 1	< 1	0.0%	1344363	< 1	< 1	0.0%	1344388	< 1	< 1	0.0%
Ba	1344323	337	353	4.6%	1344338	452	464	2.6%	1344363	452	446	1.3%	1344388	447	446	0.2%
Be	1344323	1.0	1.0	0.0%	1344338	1.2	1.2	0.0%	1344363	0.91	0.84	8.0%	1344388	0.9	0.9	0.0%
Bi	1344323	< 1	< 1	0.0%	1344338	< 1	< 1	0.0%	1344363	< 1	< 1	0.0%	1344388	< 1	< 1	0.0%
Ca	1344323	1.21	1.23	1.6%	1344338	2.20	2.21	0.5%	1344363	1.01	0.971	3.9%	1344388	1.50	1.43	4.8%
Cd	1344323	< 0.5	< 0.5	0.0%	1344338	< 0.5	< 0.5	0.0%	1344363	< 0.5	< 0.5	0.0%	1344388	< 0.5	< 0.5	0.0%
Ce	1344323	27	28	3.6%	1344338	56	45	21.8%	1344363	33	32	3.1%	1344388	22	22	0.0%
Co	1344323	5.99	6.48	7.9%	1344338	14.5	14.7	1.4%	1344363	3.7	3.6	2.7%	1344388	4.65	3.93	16.8%
Cr	1344323	59.6	61.4	3.0%	1344338	74.8	76.8	2.6%	1344363	53.6	52.4	2.3%	1344388	70.4	66.1	6.3%
Cu	1344323	13.5	13.5	0.0%	1344338	30.5	32.4	6.0%	1344363	5.53	5.03	9.5%	1344388	7.5	7.6	1.3%
Fe	1344323	3.02	3.06	1.3%	1344338	2.99	3.05	2.0%	1344363	3.23	3.11	3.8%	1344388	3.84	3.83	0.3%
Ga	1344323	17	17	0.0%	1344338	20	21	4.9%	1344363	20	20	0.0%	1344388	24	23	4.3%
In	1344323	< 1	< 1	0.0%	1344338	< 1	< 1	0.0%	1344363	< 1	< 1	0.0%	1344388	< 1	< 1	0.0%
K	1344323	0.98	1.01	3.0%	1344338	1.26	1.26	0.0%	1344363	1.38	1.33	3.7%	1344388	1.19	1.20	0.8%
La	1344323	12	12	0.0%	1344338	30	24	22.2%	1344363	14	14	0.0%	1344388	7	7	0.0%
Li	1344323	15	15	0.0%	1344338	22	23	4.4%	1344363	11	11	0.0%	1344388	8	8	0.0%
Mg	1344323	0.584	0.596	2.0%	1344338	1.08	1.10	1.8%	1344363	0.44	0.43	2.3%	1344388	0.61	0.59	3.3%
Mn	1344323	302	307	1.6%	1344338	530	533	0.6%	1344363	308	294	4.7%	1344388	402	385	4.3%
Mo	1344323	0.9	1.0	10.5%	1344338	0.6	0.6	0.0%	1344363	0.9	0.9	0.0%	1344388	1.6	1.5	6.5%
Na	1344323	1.45	1.53	5.4%	1344338	1.91	1.97	3.1%	1344363	1.29	1.27	1.6%	1344388	1.64	1.65	0.6%
Ni	1344323	18.4	20.9	12.7%	1344338	38.0	38.3	0.8%	1344363	12.6	12.8	1.6%	1344388	20.1	18.2	9.9%
P	1344323	453	474	4.5%	1344338	571	561	1.8%	1344363	494	511	3.4%	1344388	257	268	4.2%
Pb	1344323	12	12	0.0%	1344338	18	18	0.0%	1344363	15	16	6.5%	1344388	14	14	0.0%
Rb	1344323	24	25	4.1%	1344338	36	36	0.0%	1344363	36	35	2.8%	1344388	37	36	2.7%
S	1344323	0.06	0.06	0.0%	1344338	0.03	0.03	0.0%	1344363	0.04	0.04	0.0%	1344388	0.04	0.04	0.0%
Sb	1344323	< 1	< 1	0.0%	1344338	< 1	< 1	0.0%	1344363	< 1	< 1	0.0%	1344388	< 1	< 1	0.0%
Sc	1344323	10	10	0.0%	1344338	15	15	0.0%	1344363	7	7	0.0%	1344388	11	11	0.0%
Se	1344323	< 10	< 10	0.0%	1344338	< 10	< 10	0.0%	1344363	< 10	< 10	0.0%	1344388	< 10	< 10	0.0%
Sn	1344323	< 5	< 5	0.0%	1344338	< 5	< 5	0.0%	1344363	< 5	< 5	0.0%	1344388	< 5	< 5	0.0%



Quality Assurance - Replicate  
 AGAT WORK ORDER: 20T636050  
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ATTENTION TO: GORDAN MACKAY

Sr	1344323	206	217	5.2%	1344338	309	315	1.9%	1344363	198	196	1.0%	1344388	268	258	3.8%
Ta	1344323	< 10	< 10	0.0%	1344338	< 10	< 10	0.0%	1344363	< 10	< 10	0.0%	1344388	< 10	< 10	0.0%
Te	1344323	< 10	< 10	0.0%	1344338	< 10	< 10	0.0%	1344363	< 10	< 10	0.0%	1344388	< 10	< 10	0.0%
Th	1344323	< 5	< 5	0.0%	1344338	< 5	< 5	0.0%	1344363	< 5	< 5	0.0%	1344388	< 5	< 5	0.0%
Ti	1344323	0.303	0.310	2.3%	1344338	0.497	0.536	7.6%	1344363	0.38	0.38	0.0%	1344388	0.58	0.58	0.0%
Tl	1344323	< 5	< 5	0.0%	1344338	< 5	< 5	0.0%	1344363	< 5	< 5	0.0%	1344388	< 5	< 5	0.0%
U	1344323	< 5	< 5	0.0%	1344338	< 5	< 5	0.0%	1344363	< 5	< 5	0.0%	1344388	5	6	18.2%
V	1344323	71.0	74.9	5.3%	1344338	95.4	97.9	2.6%	1344363	70.4	69.2	1.7%	1344388	162	157	3.1%
W	1344323	< 1	< 1	0.0%	1344338	< 1	< 1	0.0%	1344363	< 1	< 1	0.0%	1344388	< 1	< 1	0.0%
Y	1344323	8	8	0.0%	1344338	17	17	0.0%	1344363	9	8	11.8%	1344388	8	7	13.3%
Zn	1344323	40.1	41.9	4.4%	1344338	58.1	59.5	2.4%	1344363	45.1	45.5	0.9%	1344388	49.5	50.0	1.0%
Zr	1344323	125	133	6.2%	1344338	145	154	6.0%	1344363	160	155	3.2%	1344388	129	128	0.8%

		REPLICATE #5														
Parameter	Sample ID	Original	Replicate	RPD												
Ag	1344413	< 0.5	< 0.5	0.0%												
Al	1344413	6.68	6.54	2.1%												
As	1344413	2	2	0.0%												
Ba	1344413	394	385	2.3%												
Be	1344413	1.0	1.0	0.0%												
Bi	1344413	< 1	< 1	0.0%												
Ca	1344413	1.50	1.52	1.3%												
Cd	1344413	< 0.5	< 0.5	0.0%												
Ce	1344413	32	29	9.8%												
Co	1344413	8.48	8.14	4.1%												
Cr	1344413	71.9	69.1	4.0%												
Cu	1344413	10.6	11.2	5.5%												
Fe	1344413	3.62	3.58	1.1%												
Ga	1344413	20	19	5.1%												
In	1344413	< 1	< 1	0.0%												
K	1344413	1.19	1.19	0.0%												
La	1344413	13	12	8.0%												
Li	1344413	14	13	7.4%												
Mg	1344413	0.78	0.78	0.0%												
Mn	1344413	382	382	0.0%												





Quality Assurance - Replicate  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

Mo	1344413	1.2	1.2	0.0%															
Na	1344413	1.68	1.67	0.6%															
Ni	1344413	24.1	23.7	1.7%															
P	1344413	336	329	2.1%															
Pb	1344413	11	11	0.0%															
Rb	1344413	31	30	3.3%															
S	1344413	0.04	0.04	0.0%															
Sb	1344413	< 1	< 1	0.0%															
Sc	1344413	11	11	0.0%															
Se	1344413	< 10	< 10	0.0%															
Sn	1344413	< 5	< 5	0.0%															
Sr	1344413	234	232	0.9%															
Ta	1344413	< 10	< 10	0.0%															
Te	1344413	< 10	< 10	0.0%															
Th	1344413	< 5	< 5	0.0%															
Ti	1344413	0.354	0.355	0.3%															
Tl	1344413	< 5	< 5	0.0%															
U	1344413	< 5	< 5	0.0%															
V	1344413	88.2	85.8	2.8%															
W	1344413	< 1	< 1	0.0%															
Y	1344413	11	10	9.5%															
Zn	1344413	40.7	38.6	5.3%															
Zr	1344413	125	120	4.1%															

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3									
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD						
Au	1344413	< 0.001	< 0.001	0.0%	1344363	< 0.001	< 0.001	0.0%	1344388	0.004	0.006							



Quality Assurance - Certified Reference materials  
 AGAT WORK ORDER: 20T636050  
 PROJECT:

5623 McADAM ROAD  
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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish																
Parameter	CRM #1 (ref.Till-2)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.WMG-1a)				CRM #4 (ref.Till-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag									3.03	3.24	107%	90% - 110%				
Al	8.47	7.91	93%	90% - 110%	6.96	6.69	96%	90% - 110%	4.75	4.82	102%	90% - 110%	8.47	7.63	90%	90% - 110%
As	26	27	102%	90% - 110%	124	126	102%	90% - 110%					26	25	97%	90% - 110%
Ba	540	500	93%	90% - 110%	186	176	95%	90% - 110%	216	223	103%	90% - 110%	540	502	93%	90% - 110%
Be	4.0	3.3	82%	90% - 110%									4.0	3.2	81%	90% - 110%
Ca	0.907	0.883	97%	90% - 110%	4.01	3.81	95%	90% - 110%	10	10	98%	90% - 110%	0.907	0.862	95%	90% - 110%
Ce	98	98	100%	90% - 110%	24	22	93%	90% - 110%					98	95	97%	90% - 110%
Co					22.1	20.3	92%	90% - 110%	191	175	92%	90% - 110%				
Cr	60.3	62.7	104%	90% - 110%					670	588	88%	90% - 110%	60.3	60.2	100%	90% - 110%
Cu	150	142	95%	90% - 110%	88.6	83.5	94%	90% - 110%	7120	6968	98%	90% - 110%	150	143	95%	90% - 110%
Fe	3.77	3.7	98%	90% - 110%	7.56	7.23	96%	90% - 110%	12.71	12.47	98%	90% - 110%	3.77	3.62	96%	90% - 110%
K					2.021	1.972	98%	90% - 110%	0.1021	0.1121	110%	90% - 110%				
La	44	42	95%	90% - 110%									44	41	93%	90% - 110%
Li	47	45	96%	90% - 110%									47	43	92%	90% - 110%
Mg	1.10	1.06	96%	90% - 110%	2.412	2.358	98%	90% - 110%	7.41	7.42	100%	90% - 110%	1.10	1.03	94%	90% - 110%
Mn	780	764	98%	90% - 110%	1510	1451	96%	90% - 110%					780	747	96%	90% - 110%
Mo	14	13	94%	90% - 110%									14	13	94%	90% - 110%
Na	1.624	1.547	95%	90% - 110%	0.617	0.581	94%	90% - 110%	0.112	0.117	105%	90% - 110%	1.624	1.537	95%	90% - 110%
Ni	32	34	106%	90% - 110%	77.1	73.6	95%	90% - 110%	2480	2265	91%	90% - 110%	32	32	100%	90% - 110%
P	750	742	99%	90% - 110%	892	895	100%	90% - 110%	731	712	97%	90% - 110%	750	685	91%	90% - 110%
Pb	31	28	92%	90% - 110%									31	26	85%	90% - 110%
Rb	143	129	90%	90% - 110%									143	127	89%	90% - 110%
S					0.348	0.335	96%	90% - 110%								
Sc	12	12	102%	90% - 110%					21.33	21.38	100%	90% - 110%	12	12	100%	90% - 110%
Sr	144	142	99%	90% - 110%	92.8	88.9	96%	90% - 110%	39	39	99%	90% - 110%	144	142	99%	90% - 110%
Ti	0.53	0.49	92%	90% - 110%					0.419	0.432	103%	90% - 110%	0.53	0.48	90%	90% - 110%
U	5.7	4.3	76%	90% - 110%									5.7	5	88%	90% - 110%
V	77	80	103%	90% - 110%					158	161	102%	90% - 110%	77	77	100%	90% - 110%
Y									12.67	13.26	105%	90% - 110%				
Zn	130	121	93%	90% - 110%	208	207	99%	90% - 110%	112	113	101%	90% - 110%	130	121	93%	90% - 110%
Zr									35.7	37.4	105%	90% - 110%				



Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 20T636050

PROJECT:

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CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

Parameter	CRM #5 (ref.GTS-2a)				CRM #6 (ref.WMG-1a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Ag					3.03	3.21	106%	90% - 110%								
Al	6.96	6.57	94%	90% - 110%	4.75	4.72	99%	90% - 110%								
As	124	125	101%	90% - 110%												
Ba	186	174	93%	90% - 110%	216	216	100%	90% - 110%								
Ca	4.01	3.78	94%	90% - 110%	10	9	93%	90% - 110%								
Ce	24	22	91%	90% - 110%												
Co	22.1	20.4	93%	90% - 110%	191	174	91%	90% - 110%								
Cr					670	541	81%	90% - 110%								
Cu	88.6	83.2	94%	90% - 110%	7120	6781	95%	90% - 110%								
Fe	7.56	6.96	92%	90% - 110%	12.71	11.77	93%	90% - 110%								
K	2.021	1.942	96%	90% - 110%	0.1021	0.1076	105%	90% - 110%								
Mg	2.412	2.303	95%	90% - 110%	7.41	7.08	96%	90% - 110%								
Mn	1510	1423	94%	90% - 110%												
Na	0.617	0.568	92%	90% - 110%	0.112	0.112	100%	90% - 110%								
Ni	77.1	73.2	95%	90% - 110%	2480	2228	90%	90% - 110%								
P	892	839	94%	90% - 110%	731	707	97%	90% - 110%								
S	0.348	0.324	93%	90% - 110%												
Sc					21.33	21.2	99%	90% - 110%								
Sr	92.8	87.3	94%	90% - 110%	39	37	95%	90% - 110%								
Ti					0.419	0.417	100%	90% - 110%								
V					158	160	101%	90% - 110%								
Y					12.67	13.25	105%	90% - 110%								
Zn	208	202	97%	90% - 110%	112	105	94%	90% - 110%								
Zr					35.7	37.1	104%	90% - 110%								

## (202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.1P5R)				CRM #3 (ref.GS4E)				CRM #4 (ref.GSP6C)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	6.87	7.03	102%	90% - 110%	1.81	1.65	91%	90% - 110%	4.19	3.99	95%	90% - 110%	0.767	0.729	95%	90% - 110%



## Method Summary

CLIENT NAME: MISC AGAT CLIENT ON

AGAT WORK ORDER: 20T636050

PROJECT:

ATTENTION TO: GORDAN MACKAY

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Al	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
As	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ba	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Be	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Bi	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ca	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cd	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ce	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Co	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cu	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Fe	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ga	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
In	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
K	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
La	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Li	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mg	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mo	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Na	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ni	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
P	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Pb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Rb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
S	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES



## Method Summary

CLIENT NAME: MISC AGAT CLIENT ON

AGAT WORK ORDER: 20T636050

PROJECT:

ATTENTION TO: GORDAN MACKAY

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sc	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Se	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ta	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Te	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Th	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ti	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Tl	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
U	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
V	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
W	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Y	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES





CLIENT NAME: MISC AGAT CLIENT ON  
16142 MORGAN CREEK CRES  
SURREY, BC V3Z 0J2  
604-682-2950

ATTENTION TO: GORDAN MACKAY

PROJECT:

AGAT WORK ORDER: 20T636043

SOLID ANALYSIS REVIEWED BY: Jing Xiao, Data Reviewer

DATE REPORTED: Aug 24, 2020

PAGES (INCLUDING COVER): 12

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



# Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

## (200-) Sample Login Weight

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 24, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E6622932 (1346291)		0.4171
E6622934 (1346292)		0.5636
E6622935 (1346293)		0.3623
E6622936 (1346294)		0.4233
E6622937 (1346295)		0.3756
E6622938 (1346296)		0.4025
E6622939 (1346297)		0.3447
E6622940 (1346298)		0.7463

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020		DATE RECEIVED: Aug 11, 2020						DATE REPORTED: Aug 24, 2020					SAMPLE TYPE: Rock			
	Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
	Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
E6622932 (1346291)		<0.5	7.26	19	30	<0.5	<1	6.34	<0.5	6	54.0	234	125	7.26	13	
E6622934 (1346292)		<0.5	8.47	<1	62	<0.5	<1	3.92	<0.5	6	49.3	239	122	8.09	16	
E6622935 (1346293)		<0.5	8.31	<1	160	<0.5	<1	0.15	<0.5	10	56.8	227	85.6	9.33	17	
E6622936 (1346294)		<0.5	5.00	4	9	<0.5	<1	4.68	<0.5	5	71.3	934	83.3	7.99	11	
E6622937 (1346295)		<0.5	5.78	<1	154	0.7	<1	0.52	<0.5	28	8.4	85.3	37.7	7.10	20	
E6622938 (1346296)		<0.5	7.42	1	55	<0.5	<1	2.10	<0.5	10	28.7	143	6.9	10.0	18	
E6622939 (1346297)		<0.5	8.43	<1	39	0.9	<1	1.02	<0.5	31	8.1	53.6	21.8	3.77	18	
E6622940 (1346298)		<0.5	5.01	<1	588	0.8	<1	2.87	<0.5	64	13.4	113	119	2.77	13	
	Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
	Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1	
E6622932 (1346291)		<1	0.48	<2	25	3.11	1320	<0.5	1.17	112	183	<1	16	0.26	4	
E6622934 (1346292)		<1	0.39	<2	40	3.13	1670	<0.5	0.82	139	250	<1	14	0.02	6	
E6622935 (1346293)		<1	0.58	<2	29	3.45	1420	<0.5	1.46	135	224	<1	18	0.01	6	
E6622936 (1346294)		<1	0.01	<2	6	11.8	1470	<0.5	0.07	474	228	<1	<10	0.12	<1	
E6622937 (1346295)		<1	0.28	8	3	0.53	1000	<0.5	2.90	5.3	1070	<1	22	0.13	<1	
E6622938 (1346296)		<1	0.02	2	25	2.95	1790	<0.5	1.80	62.0	366	<1	13	0.02	<1	
E6622939 (1346297)		<1	0.09	15	6	0.59	430	<0.5	5.48	3.8	396	<1	<10	0.01	2	
E6622940 (1346298)		<1	1.98	31	12	0.42	433	2.1	0.54	19.7	312	11	62	1.04	<1	
	Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
	Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5	
E6622932 (1346291)		37	<10	<5	117	<10	<10	<5	0.08	<5	10	220	<1	2	73.0	
E6622934 (1346292)		46	<10	<5	91	<10	<10	<5	0.09	<5	11	288	<1	9	96.8	
E6622935 (1346293)		45	<10	<5	50	<10	<10	<5	0.10	<5	15	305	<1	3	134	
E6622936 (1346294)		29	<10	<5	13	<10	<10	<5	0.38	<5	10	194	<1	11	115	
E6622937 (1346295)		21	<10	<5	47	<10	<10	<5	0.40	<5	6	6.4	<1	16	76.7	
E6622938 (1346296)		45	<10	<5	77	<10	<10	<5	0.50	<5	13	316	<1	6	193	
E6622939 (1346297)		6	<10	<5	230	<10	<10	<5	0.14	<5	5	41.1	<1	7	47.2	
E6622940 (1346298)		5	<10	<5	120	<10	<10	<5	0.14	<5	<5	29.0	<1	13	226	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 24, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
E6622932 (1346291)				10
E6622934 (1346292)				19
E6622935 (1346293)				26
E6622936 (1346294)				33
E6622937 (1346295)				165
E6622938 (1346296)				49
E6622939 (1346297)				78
E6622940 (1346298)				98

Comments: RDL - Reported Detection Limit

1346291-1346298 As, Sb values may be low due to digestion losses.

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

### (202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 24, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
E6622932 (1346291)				0.476
E6622934 (1346292)				0.005
E6622935 (1346293)				0.004
E6622936 (1346294)				0.003
E6622937 (1346295)				0.167
E6622938 (1346296)				0.002
E6622939 (1346297)				0.002
E6622940 (1346298)				0.002

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

### Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 24, 2020

SAMPLE TYPE: Rock

	Analyte:	Pass %
	Unit:	%
Sample ID (AGAT ID)	RDL:	0.01
E6622932 (1346291)		75.97

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 20T636043

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 11, 2020

DATE RECEIVED: Aug 11, 2020

DATE REPORTED: Aug 24, 2020

SAMPLE TYPE: Rock

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
E6622932 (1346291)	88.87

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	1346291	< 0.5	< 0.5	0.0%	1346298	< 0.5	< 0.5	0.0%								
Al	1346291	7.26	7.23	0.4%	1346298	5.01	5.13	2.4%								
As	1346291	19	17	11.1%	1346298	< 1	< 1	0.0%								
Ba	1346291	30	30	0.0%	1346298	588	580	1.4%								
Be	1346291	< 0.5	< 0.5	0.0%	1346298	0.8	0.8	0.0%								
Bi	1346291	< 1	< 1	0.0%	1346298	< 1	< 1	0.0%								
Ca	1346291	6.34	6.23	1.8%	1346298	2.87	2.86	0.3%								
Cd	1346291	< 0.5	< 0.5	0.0%	1346298	< 0.5	< 0.5	0.0%								
Ce	1346291	6	6	0.0%	1346298	64	66	3.1%								
Co	1346291	54.0	55.7	3.1%	1346298	13.4	13.8	2.9%								
Cr	1346291	234	219	6.6%	1346298	113	109	3.6%								
Cu	1346291	125	122	2.4%	1346298	119	123	3.3%								
Fe	1346291	7.26	7.06	2.8%	1346298	2.77	2.81	1.4%								
Ga	1346291	13	15	14.3%	1346298	13	13	0.0%								
In	1346291	< 1	< 1	0.0%	1346298	< 1	< 1	0.0%								
K	1346291	0.478	0.475	0.6%	1346298	1.98	2.02	2.0%								
La	1346291	< 2	< 2	0.0%	1346298	31	32	3.2%								
Li	1346291	25	25	0.0%	1346298	12	12	0.0%								
Mg	1346291	3.11	3.13	0.6%	1346298	0.420	0.425	1.2%								
Mn	1346291	1320	1310	0.8%	1346298	433	443	2.3%								
Mo	1346291	< 0.5	< 0.5	0.0%	1346298	2.06	1.93	6.5%								
Na	1346291	1.17	1.13	3.5%	1346298	0.54	0.54	0.0%								
Ni	1346291	112	113	0.9%	1346298	19.7	20.6	4.5%								
P	1346291	183	183	0.0%	1346298	312	321	2.8%								
Pb	1346291	< 1	< 1	0.0%	1346298	11	12	8.7%								
Rb	1346291	16	16	0.0%	1346298	62	64	3.2%								
S	1346291	0.256	0.248	3.2%	1346298	1.04	1.08	3.8%								
Sb	1346291	4	5	22.2%	1346298	< 1	2									
Sc	1346291	37	38	2.7%	1346298	5	5	0.0%								
Se	1346291	< 10	< 10	0.0%	1346298	< 10	< 10	0.0%								
Sn	1346291	< 5	< 5	0.0%	1346298	< 5	< 5	0.0%								





CLIENT NAME: MISC AGAT CLIENT ON

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.GTS-2a)														
	Expect	Actual	Recovery	Limits											
Al	6.96	7.08	102%	90% - 110%											
As	124	123	99%	90% - 110%											
Ba	186	192	103%	90% - 110%											
Ca	4.01	3.81	95%	90% - 110%											
Ce	24	24	99%	90% - 110%											
Co	22.1	20.1	91%	90% - 110%											
Cu	88.6	86.8	98%	90% - 110%											
Fe	7.56	7.11	94%	90% - 110%											
K	2.021	2.207	109%	90% - 110%											
Mg	2.412	2.367	98%	90% - 110%											
Mn	1510	1445	96%	90% - 110%											
Na	0.617	0.654	106%	90% - 110%											
Ni	77.1	70	91%	90% - 110%											
P	892	868	97%	90% - 110%											
S	0.348	0.351	101%	90% - 110%											
Sr	92.8	90.7	98%	90% - 110%											
Zn	208	211	101%	90% - 110%											

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.GS6F)														
	Expect	Actual	Recovery	Limits											
Au	6.87	6.84	100%	90% - 110%											



## Method Summary

CLIENT NAME: MISC AGAT CLIENT ON  
 PROJECT:  
 SAMPLING SITE:

AGAT WORK ORDER: 20T636043  
 ATTENTION TO: GORDAN MACKAY  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Al	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
As	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ba	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Be	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Bi	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ca	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cd	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ce	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Co	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cu	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Fe	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ga	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
In	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
K	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
La	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Li	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mg	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mo	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Na	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ni	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
P	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Pb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Rb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
S	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES



## Method Summary

CLIENT NAME: MISC AGAT CLIENT ON  
 PROJECT:  
 SAMPLING SITE:

AGAT WORK ORDER: 20T636043  
 ATTENTION TO: GORDAN MACKAY  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sc	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Se	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ta	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Te	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Th	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ti	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Tl	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
U	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
V	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
W	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Y	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE





CLIENT NAME: GOLDEN GOLIATH  
16142 MORGAN CREEK CRES  
SURREY, BC V3Z 0J2  
604-682-2950

ATTENTION TO: GORDAN MACKAY

PROJECT:

AGAT WORK ORDER: 20T643282

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Sep 10, 2020

PAGES (INCLUDING COVER): 12

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

### (200-) Sample Login Weight

DATE SAMPLED: Aug 26, 2020

DATE RECEIVED: Aug 27, 2020

DATE REPORTED: Sep 10, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
6622941 (1395327)		1.1084
6622942 (1395328)		0.6277
6622943 (1395329)		0.3792
L2750-950N (1395330)		0.1996
L2750-975N (1395331)		0.1454
L2750-1000N (1395332)		0.1704
L2750-1025N (1395333)		0.1386

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 26, 2020		DATE RECEIVED: Aug 27, 2020					DATE REPORTED: Sep 10, 2020					SAMPLE TYPE: Rock				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga		
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm		
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5		
Sample ID (AGAT ID)																
6622941 (1395327)	<0.5	7.91	69	901	1.0	<1	2.60	<0.5	38	5.1	136	13.1	2.97	22		
6622942 (1395328)	<0.5	7.72	12	24	0.6	<1	10.8	<0.5	7	71.2	239	459	11.9	45		
6622943 (1395329)	1.2	8.64	28	229	0.9	<1	0.50	<0.5	15	8.4	65.4	230	1.97	26		
L2750-950N (1395330)	<0.5	5.83	<1	496	1.0	<1	1.09	<0.5	39	7.4	60.4	27.6	3.15	21		
L2750-975N (1395331)	0.7	4.57	2	421	0.7	<1	0.91	<0.5	31	3.8	57.4	25.5	5.00	25		
L2750-1000N (1395332)	0.5	5.51	<1	433	0.8	<1	1.15	<0.5	30	4.7	58.1	16.1	4.22	23		
L2750-1025N (1395333)	0.5	4.75	3	359	0.7	<1	1.26	<0.5	29	3.8	55.4	20.6	3.15	21		
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb		
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm		
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	1	10	0.01	1		
Sample ID (AGAT ID)																
6622941 (1395327)	<1	2.81	18	10	0.94	829	<0.5	2.46	13.3	475	15	66	0.02	<1		
6622942 (1395328)	<1	0.07	<2	5	2.59	2590	7.2	0.26	81.4	207	1	<10	2.12	<1		
6622943 (1395329)	<1	0.79	6	9	0.81	157	<0.5	5.03	14.0	542	4	18	0.01	<1		
L2750-950N (1395330)	<1	1.63	18	15	0.56	488	3.1	1.24	15.5	410	14	50	0.03	<1		
L2750-975N (1395331)	<1	1.34	15	8	0.48	302	2.2	0.85	17.1	620	13	33	0.07	<1		
L2750-1000N (1395332)	<1	1.44	13	11	0.56	308	1.8	1.33	15.8	394	13	32	0.05	<1		
L2750-1025N (1395333)	<1	1.01	14	7	0.48	327	1.5	1.34	15.8	205	9	22	0.02	<1		
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn		
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm		
RDL:	1	10	5	1	10	10	5	0.01	5	5	0.5	1	1	0.5		
Sample ID (AGAT ID)																
6622941 (1395327)	9	<10	<5	217	<10	<10	<5	0.29	<5	<5	69.2	<1	10	122		
6622942 (1395328)	58	<10	<5	176	<10	14	<5	0.44	<5	7	323	<1	30	65.7		
6622943 (1395329)	9	<10	<5	116	<10	<10	<5	0.25	<5	<5	59.1	<1	11	68.0		
L2750-950N (1395330)	10	<10	<5	198	<10	<10	<5	0.45	<5	<5	113	<1	11	70.3		
L2750-975N (1395331)	9	<10	<5	154	<10	<10	<5	0.57	<5	5	144	<1	9	41.8		
L2750-1000N (1395332)	9	<10	<5	209	<10	<10	<5	0.33	<5	<5	85.3	<1	8	48.5		
L2750-1025N (1395333)	10	<10	<5	189	<10	<10	<5	0.53	<5	<5	152	<1	9	32.2		

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Aug 26, 2020

DATE RECEIVED: Aug 27, 2020

DATE REPORTED: Sep 10, 2020

SAMPLE TYPE: Rock

Analyte:	Zr
Unit:	ppm
Sample ID (AGAT ID)	RDL:
	5
6622941 (1395327)	110
6622942 (1395328)	38
6622943 (1395329)	175
L2750-950N (1395330)	169
L2750-975N (1395331)	174
L2750-1000N (1395332)	158
L2750-1025N (1395333)	139

Comments: RDL - Reported Detection Limit

1395327-1395333 As, Sb values may be low due to digestion losses.

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

### (202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Aug 26, 2020

DATE RECEIVED: Aug 27, 2020

DATE REPORTED: Sep 10, 2020

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
6622941 (1395327)			0.008
6622942 (1395328)			0.014
6622943 (1395329)			0.004
L2750-950N (1395330)			0.006
L2750-975N (1395331)			0.004
L2750-1000N (1395332)			0.004
L2750-1025N (1395333)			0.004

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

## Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 26, 2020

DATE RECEIVED: Aug 27, 2020

DATE REPORTED: Sep 10, 2020

SAMPLE TYPE: Rock

	Analyte:	Pass %
	Unit:	%
Sample ID (AGAT ID)	RDL:	0.01
6622941 (1395327)		76.31

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 20T643282

PROJECT:

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 26, 2020

DATE RECEIVED: Aug 27, 2020

DATE REPORTED: Sep 10, 2020

SAMPLE TYPE: Rock

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
6622941 (1395327)	89.69

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by \*)

Certified By:



CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	1395327	< 0.5	< 0.5	0.0%	1395333	0.50	0.56	11.3%								
Al	1395327	7.91	8.03	1.5%	1395333	4.75	4.73	0.4%								
As	1395327	69	80	14.8%	1395333	3	< 1									
Ba	1395327	901	918	1.9%	1395333	359	353	1.7%								
Be	1395327	1.0	1.0	0.0%	1395333	0.7	0.7	0.0%								
Bi	1395327	< 1	< 1	0.0%	1395333	< 1	< 1	0.0%								
Ca	1395327	2.60	2.60	0.0%	1395333	1.26	1.25	0.8%								
Cd	1395327	< 0.5	< 0.5	0.0%	1395333	< 0.5	< 0.5	0.0%								
Ce	1395327	38	38	0.0%	1395333	29	28	3.5%								
Co	1395327	5.1	5.1	0.0%	1395333	3.80	3.61	5.1%								
Cr	1395327	136	131	3.7%	1395333	55.4	53.0	4.4%								
Cu	1395327	13.1	12.4	5.5%	1395333	20.6	20.2	2.0%								
Fe	1395327	2.97	2.93	1.4%	1395333	3.15	3.13	0.6%								
Ga	1395327	22	22	0.0%	1395333	21	20	4.9%								
In	1395327	< 1	< 1	0.0%	1395333	< 1	< 1	0.0%								
K	1395327	2.81	2.88	2.5%	1395333	1.01	1.01	0.0%								
La	1395327	18	19	5.4%	1395333	14	13	7.4%								
Li	1395327	10	9	10.5%	1395333	7	7	0.0%								
Mg	1395327	0.945	0.954	0.9%	1395333	0.480	0.474	1.3%								
Mn	1395327	829	829	0.0%	1395333	327	324	0.9%								
Mo	1395327	< 0.5	< 0.5	0.0%	1395333	1.5	1.5	0.0%								
Na	1395327	2.46	2.50	1.6%	1395333	1.34	1.33	0.7%								
Ni	1395327	13.3	12.6	5.4%	1395333	15.8	16.0	1.3%								
P	1395327	475	479	0.8%	1395333	205	203	1.0%								
Pb	1395327	15	15	0.0%	1395333	9	9	0.0%								
Rb	1395327	66	64	3.1%	1395333	22	21	4.7%								
S	1395327	0.022	0.026	16.7%	1395333	0.02	0.02	0.0%								
Sb	1395327	< 1	< 1	0.0%	1395333	< 1	< 1	0.0%								
Sc	1395327	9	9	0.0%	1395333	10	10	0.0%								
Se	1395327	< 10	< 10	0.0%	1395333	< 10	< 10	0.0%								
Sn	1395327	< 5	< 5	0.0%	1395333	< 5	< 5	0.0%								





CLIENT NAME: GOLDEN GOLIATH

ATTENTION TO: GORDAN MACKAY

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.Till-2)																
	Expect	Actual	Recovery	Limits													
Al	8.47	8.22	97%	90% - 110%													
As	26	28	108%	90% - 110%													
Ba	540	532	98%	90% - 110%													
Be	4.0	3.5	88%	90% - 110%													
Ca	0.907	0.912	101%	90% - 110%													
Ce	98	104	106%	90% - 110%													
Cr	60.3	64.2	106%	90% - 110%													
Cu	150	151	101%	90% - 110%													
Fe	3.77	3.64	97%	90% - 110%													
La	44	46	105%	90% - 110%													
Li	47	48	103%	90% - 110%													
Mg	1.10	1.08	98%	90% - 110%													
Mn	780	770	99%	90% - 110%													
Mo	14	14	99%	90% - 110%													
Na	1.624	1.647	101%	90% - 110%													
Ni	32	34	107%	90% - 110%													
P	750	713	95%	90% - 110%													
Pb	31	26	85%	90% - 110%													
Rb	143	127	89%	90% - 110%													
Sc	12	13	109%	90% - 110%													
Sr	144	154	107%	90% - 110%													
Ti	0.53	0.47	90%	90% - 110%													
V	77	84	109%	90% - 110%													
Zn	130	126	97%	90% - 110%													

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.GS6F)																
	Expect	Actual	Recovery	Limits													
Au	6.87	6.81	99%	90% - 110%													

## Method Summary

CLIENT NAME: GOLDEN GOLIATH

AGAT WORK ORDER: 20T643282

PROJECT:

ATTENTION TO: GORDAN MACKAY

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Al	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
As	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ba	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Be	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Bi	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ca	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cd	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ce	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Co	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Cu	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Fe	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ga	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
In	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
K	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
La	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Li	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mg	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Mo	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Na	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ni	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
P	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Pb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Rb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
S	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES

## Method Summary

CLIENT NAME: GOLDEN GOLIATH

AGAT WORK ORDER: 20T643282

PROJECT:

ATTENTION TO: GORDAN MACKAY

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sb	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sc	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Se	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Sr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ta	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Te	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Th	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Ti	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Tl	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
U	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
V	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
W	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Y	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zn	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Zr	MIN-200-12034	Fletcher, WK:Handbook of Exploration Geochem V.1	ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



2020 Wish Ore Soil Geochem Sample program: Georeferenced sample coordinates and Au Values											
ASSAY ID	Easting	Northing	Zone	Lab	Property	P_geo	assay_ty	Sample_ID	Station_N	Au_ppm	Au_ppb
1344323	693719	5209401	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-075N	75	0.002	2
1344324	693719	5209426	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-100N	100	0.001	1
1344325	693719	5209451	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-125N	125	<0.001	-1
1344326	693719	5209476	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-150N	150	0.002	2
1344327	693719	5209501	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-175N	175	0.001	1
1344328	693719	5209526	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-200N	200	0.002	2
1344329	693719	5209726	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-400N	400	0.005	5
1344330	693719	5209751	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-425N	425	0.001	1
1344331	693719	5209901	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-575N	575	0.002	2
1344332	693719	5209926	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-600N	600	0.023	23
1344333	693719	5210076	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-750N	750	0.019	19
1344334	693719	5210101	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-775N	775	0.002	2
1344335	693719	5210126	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-800N	800	0.004	4
1344336	693719	5210151	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L100-825N	825	0.003	3
1344337	693821	5209601	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-275N	275	0.004	4
1344338	693821	5209626	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-300N	300	0.004	4
1344339	693821	5209676	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-350N	350	0.002	2
1344340	693821	5209876	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-550N	550	0.003	3
1344341	693821	5209901	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-575N	575	0.003	3
1344342	693821	5209926	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-600N	600	0.002	2
1344343	693821	5209951	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-625N	625	0.008	8
1344344	693821	5209976	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-650N	650	0.003	3
1344345	693821	5210001	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-675N	675	0.003	3
1344346	693821	5210026	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-700N	700	0.002	2
1344347	693821	5210226	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-900N	900	0.025	25
1344348	693821	5210251	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-925N	925	0.002	2
1344349	693821	5210276	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-950N	950	0.004	4
1344350	693821	5210301	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-975N	975	0.005	5
1344351	693821	5210326	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-1000N	1000	<0.001	-1
1344352	693821	5210401	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-1075N	1075	0.002	2
1344353	693821	5210426	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-1100N	1100	0.013	13
1344354	693821	5210451	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L200-1125N	1125	0.001	1
1344355	693922	5209576	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-250N	250	0.003	3
1344356	693922	5209726	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-400N	400	<0.001	-1
1344357	693922	5209751	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-425N	425	0.003	3
1344358	693922	5209776	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-450N	450	<0.001	-1
1344359	693922	5209801	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-475N	475	<0.001	-1
1344360	693922	5209826	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-500N	500	0.001	1
1344361	693922	5210001	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-675N	675	0.003	3
1344362	693922	5210026	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-700N	700	0.002	2
1344363	693922	5210051	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-725N	725	<0.001	-1
1344364	693922	5210076	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-750N	750	<0.001	-1
1344365	693922	5210276	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-950N	950	0.002	2
1344366	693922	5210301	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-975N	975	0.002	2
1344367	693922	5210326	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-1000N	1000	0.002	2
1344368	693922	5210351	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-1025N	1025	0.008	8
1344369	693922	5210376	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L300-1050N	1050	0.001	1
1344370	694026	5209501	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-175N	175	0.004	4
1344371	694026	5209526	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-200N	200	0.002	2
1344372	694026	5209551	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-225N	225	0.002	2
1344373	694026	5209576	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-250N	250	0.002	2
1344374	694026	5209601	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-275N	275	0.002	2
1344375	694026	5209626	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-300N	300	0.001	1
1344376	694026	5209651	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-325N	325	0.015	15
1344377	694026	5209676	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-350N	350	0.001	1
1344378	694026	5209851	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-525N	525	0.001	1
1344379	694026	5209876	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-550N	550	0.001	1
1344380	694026	5210001	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-675N	675	0.005	5
1344381	694026	5210026	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-700N	700	0.007	7
1344382	694026	5210051	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-725N	725	0.006	6
1344383	694026	5210076	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-750N	750	0.003	3
1344384	694026	5210301	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-975N	975	0.001	1
1344385	694026	5210326	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-1000N	1000	<0.001	-1
1344386	694026	5210351	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-1025N	1025	0.002	2
1344387	694026	5210376	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-1050N	1050	0.005	5
1344388	694026	5210401	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-1075N	1075	0.004	4
1344389	694026	5210426	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L400-1100N	1100	0.001	1
1344390	696369	5210467	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2150-1125N	1125	0.004	4
1344391	696369	5210492	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2150-1150N	1150	0.117	117

1344392	696369	5210517	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2150-1175N	1175	0.001	1
1344393	696369	5210542	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2150-1200N	1200	0.002	2
1344394	696574	5210425	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1075N	1075	0.004	4
1344395	696574	5210450	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1100N	1100	<0.001	-1
1344396	696574	5210475	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1125N	1125	0.01	10
1344397	696574	5210750	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1400N	1400	0.002	2
1344398	696574	5210775	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1425N	1425	0.005	5
1344399	696574	5210800	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1450N	1450	0.042	42
1344400	696574	5210825	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2350-1475N	1475	<0.001	-1
1344401	696779	5210578	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1225N	1225	<0.001	-1
1344402	696779	5210603	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1250N	1250	0.008	8
1344403	696779	5210628	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1275N	1275	0.002	2
1344404	696779	5210653	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1300N	1300	0.004	4
1344405	696779	5210678	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1325N	1325	<0.001	-1
1344406	696779	5210903	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1550N	1550	0.014	14
1344407	696779	5210928	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1575N	1575	0.027	27
1344408	696779	5210953	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1600N	1600	<0.001	-1
1344409	696779	5210978	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1625N	1625	0.001	1
1344410	696779	5211003	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1650N	1650	<0.001	-1
1344411	696779	5211153	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1800N	1800	0.005	5
1344412	696779	5211178	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1825N	1825	<0.001	-1
1344413	696779	5211203	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2550-1850N	1850	<0.001	-1
1344414	696977	5210940	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2750-1575N	1575	0.003	3
1344415	696977	5210965	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2750-1600N	1600	0.002	2
1344416	696977	5210990	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2750-1625N	1625	0.004	4
1344417	696977	5211215	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2750-1850N	1850	0.007	7
1344418	696977	5211265	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2750-1900N	1900	0.017	17
1344419	697186	5210440	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1100N	1100	<0.001	-1
1344420	697186	5210465	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1125N	1125	<0.001	-1
1344421	697186	5210490	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1150N	1150	0.005	5
1344422	697186	5210665	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1325N	1325	<0.001	-1
1344423	697186	5210690	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1350N	1350	<0.001	-1
1344424	697186	5210715	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1375N	1375	<0.001	-1
1344425	697186	5210740	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1400N	1400	<0.001	-1
1344426	697186	5210765	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1425N	1425	0.028	28
1344427	697186	5211065	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1725N	1725	0.005	5
1344428	697186	5211115	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1775N	1775	0.002	2
1344429	697186	5211140	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1800N	1800	<0.001	-1
1344430	697186	5211165	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1825N	1825	0.002	2
1344431	697186	5211190	16	ACT Sudbury	Wish Ore	G.MacKay	soil	L2950-1850N	1850	0.002	2
1344432	693821	5209866	16	ACT Sudbury	Wish Ore	G.MacKay	sediment	6622933	540	0.005	5

# Report

## on the Structural Geology of the WishOre Project, Batchawana Bay, Ontario.

Prepared for Golden Goliath Resources Ltd.

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06/06/2021

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## Introduction

The following is a preliminary report on the structural geology and exploration potential of the WishOre property, 100% owned by Golden Goliath Resources Ltd. This report is based on work carried out by F. Berniolles and G. MacKay between May 17<sup>th</sup> and 27<sup>th</sup>, 2021.

Work was carried out in two stages. Initially, the principal showings were examined for key structural characteristics related to mineralization controls, and subsequent work was focussed on acquiring a sufficient distribution of structural and lithological data to allow for interpretation of property geology.

The property hosts several showings, both historical and recent, which share sufficient geological characteristics to suggest that they are genetically related, and therefore have the potential to form a coherent mineralized system.

## Background Geology

The Batchewana Greenstone Belt, located approximately 60km NW of Sault Ste-Marie, Ontario, is an Archean greenstone belt with ages ranging from 2729 to 2668Ma (Grunsky, 1991). The older, western portion of the belt is comprised predominantly of tholeiitic flows and sills termed the Griffin Assemblage, and hosts the mineralization zones of the WishOre property. A later cycle of tholeiites underlying calc-alkalic mafic to felsic rocks, overlain by deep-water clastic sediments, is found in the eastern portion of the belt, outside the property. The relationship is reported (Grunsky, 1987) to be complex and largely cryptic, but appears to be considered to be somewhat younger than the western, tholeiite-dominated domain.

The panel of greenstones is surrounded by granitoids, the ca. 2716 Ma Algoma Plutonic Domain to the south, and the reportedly 2678 Ma Chapleau Gneiss Domain to the north. Given their published ages, neither of these granitic units would be considered basement to the Batchewana Belt, although the literature is unclear as to the relation of the Chapleau Domain to the supracrustal package (Grunsky, 1991).

Two principal deformation events are recorded in the Belt – the older, dominant foliation is belt-parallel, and forms the dominant regional foliation noted in the WishOre property, termed  $S_{main}$  here. The other, subsequent fabric is reportedly (Grunsky 1987, Giblin & Armhurst, 1973) mostly developed in the zone of structural complexity associated with the transition from the dominantly tholeiitic package to the dominantly calc-alkalic package, east of the property boundary.

Grunsky, 1987, also refers to NW trending faults (generically) being associated with far-field effects of the Kapuskasing uplift. The principal NE-trending lineament, termed the Carp River Fault, also cuts Keeweenawan sediments and volcanics to the west of the property and so is younger; however NW-trending faults within the property dissect and offset the Carp River fault, suggesting an even younger age, and potentially casting doubt on their being systematically associated with syn-Kapuskasing features.

## Property Geology

Mapping on the property during the May 2021 fieldwork was largely restricted to the panel south of the Carp River Fault. This panel hosts most of the known mineralization.

Lithologies noted during the program were defined according to textural features and estimated silica content; this exercise was carried out in the absence of significant WR data and is therefore unsupported – however, based on textural features alone, it is possible to define mappable units. An attempt was made to subdivide these units into mafic, intermediate and felsic-derived rocks based on perceived silica content and colour index, which assisted in defining mappable units, but is not currently defensible geochemically. Therefore, references here and in the accompanying maps to principal lithogeochemical affinity should be taken as subjective variations only. Previous workers in the area (notably Grunsky 1987 and Giblin & Armhurst 1973) characterize the entire area as mafic to intermediate.

Deformation occurred in several phases within the property footprint. The principal fabric-forming event, termed D1 here, developed a weak to moderate regional  $S_{main}$  foliation broadly paralleling the margins of the Belt. This dominant foliation is locally significantly intensified in iron-carbonate +-sericite -altered, typically quartz-veined high-strain zones, some of which show evidence of shear development. Rare L1 stretching/mineral lineations were observed within the dominant foliation, with steep northwesterly plunges.

This dominant fabric is observed to be deformed by various subsequent events; the principal one of which resulted in the fold geometries interpreted near the western Trench Zone. Furthermore,  $S_{main}$  fabrics and associated mineralized zones were affected by a weak, generally shallow crenulation, and locally by small-scale kink folding, thought to be associated with late, brittle deformation.



*Figure 1: Small-scale folding, a rarely developed mesoscale example of the otherwise widely developed crenulation found across the property (left). Kink bands, near Trench Zone – kinks like this may be related to late, brittle events, and may represent a stage of Proterozoic deformation (right).*

Finally, at least two generations of faulting are recorded in Property rocks – the main feature being the (interpreted) Carp River Fault, running parallel to the Belt, and in a general sense, subparallel to the dominant foliation. This fault extends into Keeweenawan sediments and volcanics to the west



(see Giblin & Armhurst, 1973 and others), implying a post-1.1 Ga age of latest activation. (Nicholson et al., 1997). While it remains plausible that this constitutes only the last reactivation of a long-lived fault system, no increases in fabric development proximal to the fault trace were noted, suggesting that the Carp River fault may be a simple, single-stage purely brittle late feature. The final generation of faults noted are NW-trending features which offset the trace of the Carp River fault, and are therefore considered to be last-stage deformation in this part of the Belt.

Where an S0 is visible, dominant foliation generally lies <5 degrees from it, implying that transposition is widespread in this section of the Belt. This is generally consistent with observed levels of strain, however minimally strained segments do occur as well. Overall, this supports the use of foliation trajectories as proxies for stratigraphic trends, particularly in units with a waterlain component (epiclastics).

### Mineralization

Mineralization on the property is characterized by high-strain corridors of variable widths and unknown strike lengths, hosting variable but locally strong iron-carbonate alteration and numerous, cm to dm scale quartz to quartz-carbonate veinlets, which are systematically deformed. See Figure 2, below.

The fabric in these high-strain corridors is continuous with the surrounding regional fabrics, indicating that the host corridors are coeval with the main regional deformation event. Locally, the high-strain zones display textures (rotated bodies, incipient CS features – see Figure3) consistent with shear development.



*Figure 2: Left: good iron-carbonate alteration associated with dismembered quartz veinletting and increased fabric development, Trench Zone. Right: small z-folds in cm-scale mesoband-bearing iron-formation, 800m WSW of New Zone.*

The relationship between the predominantly iron-carbonate alteration (locally with possible sericite and silicification) and strain development could not be robustly ascertained during the current mapping exercise, however the presence of both strained and unstrained carbonate alteration grains shows that, at least, alteration was coeval to deformation and underwent some subsequent remobilization (typically as hairline veinlets and fracture-fills of iron carbonate). This does not rule out the possibility that the alteration predated strain, and acted as a ground-preparation stage for the development of high-strain corridors.



*Figure 3: example of partially rotated vein fragment, New Zone.*

Spatial correlation between veinlets, alteration, and strain is generally excellent, strongly suggesting that all three features are genetically and temporally related, and that strain-corridor geometry is a primary indicator of mineralization trends. Conversely, veinlet orientation within the high-strain corridors is likely not a significant large-scale indicator of mineralization trends, as the veinlets and veins are nearly systematically (with one exception at the New Zone) highly re-oriented, folded and dismembered.

In detail, there are two exceptions to the relation of veining to strain: at the Lloydex trenches, a late, significantly less-deformed, carbonate-free generation of veinletting is superposed on the deformed, dismembered, carbonate-bearing veinlets; and at the New Zone, a somewhat larger, reasonably coherent vein, best developed at a post- $S_{main}$  inflection point (hinting at a remobilizing event), occurs in a broadly  $S_{main}$ -parallel geometry, but appears to postdate the principal fabric-forming event and its associated dismemberment of veinlets.

Initial veinlet geometries within the high-strain zones are challenging to reconstruct, and occurred in different orientations at each trenched site; however, at each site, there appear to have been 2 or 3 dominant orientations at which veinlets formed: one dominant orientation at high strike angle to trend of deformation corridor, one subordinate orientation, also at high angle to  $S_{main}$  but with a different dip, and locally, an originally  $S_{main}$ -parallel veinlet orientation. Such a 3-part array of vein orientations, presumably syn-deformational (see above), is consistent with tension veins forming at

high angle to the flattening plane, with local development of what may be shear veins *sensu stricto*, in the foliation-subparallel orientation.

There appears to exist a possible spatial correlation between high-strain zone development and the margins of mappable (but ill-defined due to lack of WR data) units. This would be consistent with focussing of strain in areas of rheological contrast, and suggests further potential targets of the same type at other lithological boundaries within the Belt.

#### Gold distribution

Gold grades within the trenches vary considerably, but can broadly be characterized as anomalous where alteration and veinletting occur together, with local spikes of grade (MacKay & Gordey, 2019, G. MacKay, pers. comm. 2021).

At the current state of geological knowledge of the property, the principal challenges are in understanding grade distribution, geometry, and continuity.

Potential avenues of investigation for addressing these challenges would include gaining an understanding of a) locations (if present) where high-strain zones coalesce to form broader, low-grade features – this implies an anastomotic distribution to the high-strain/shear zones, which has not yet been demonstrated to occur, but is fully possible; b) local development of more robust shear-type veining, which may be dependent on pre- and syn-Dmain geometries, and which could potentially yield larger volumes of gold-enriched quartz, as opposed to the predominantly altered-volcanics represented in most of the trenches; and c) along-strike continuity of shear/high-strain zones – As represented in the accompanying maps, the strike potential of the high-strain zones is likely considerably greater than current exposures would suggest. Furthermore, such high-strain zones are potentially semi-continuous along strike, meaning that even where mineralization appears to wane along strike, there still remains potential for further showings. Careful examination of strain state and  $S_{\text{main}}$  fabric orientations would allow prospecting & trenching to be focussed along the most plausible trajectories for an otherwise locally unmineralized high-strain zone, which ideally could be followed in such a way as to link up the known showings. A preliminary attempt at defining such trajectories is shown in the accompanying Preliminary Map (see map pocket).

#### Mineral potential and next-stage targeting

Recent and historical work has defined a number of geologically similar showings carrying anomalous gold values or better. Within each of these high-strain, altered, veinletted zones, gold grade distribution appears to be variable across strike (G. MacKay, pers. comm. 2021); along-strike exposures are currently limited to trenched zones.

As mentioned above, significant potential for strike extensions exists at all the trench localities examined. Even in the cases (e.g. Lloydex zone main trench) where exposed mineralization appears to wane along strike, there remains value in examining the trace of the associated higher-strain corridor, as the development of further mineralized segments along the same structural feature is fully plausible. The reader is referred to the main map (see back pocket): estimated trends and extents of high-strain corridors, and potentially, attendant mineralization, are picked out as pairs of red High-Strain Zone polylines.



Some veining at the New Zone main showing shows increased size at deflections of the high-strain (probably a true shear in that location) corridor. This may suggest a second-generation veining scenario wherein potentially dilational zones (post- $S_{main}$  or syn- $S_{main}$  with some deflection of the principal geometry leading to space creation) allow formation of later veining: strain state of the main large vein at New Zone is lower than that of the smaller veinlets. This suggests that there may exist potential for larger veins at inflection points or refold hinges of the principal high-strain zone - hosted mineralization. Determining the location of such zones could be achieved by systematic measurement of foliations in generally proximal units, where the high-strain zones are not otherwise exposed. As such variations in foliation trends (i.e. deflections of  $S_{main}$ ) are expected in many cases to be disharmonic (they are strongly disharmonic at outcrop scale), there would be limited value in collecting densely-spaced fabric measurements more than a few hundred metres away from the projected trace of mineralized high-strain zones.

The Carp River Fault, of Proterozoic age, appears to define a boundary between prospective rocks to the south, and less-mineralized units to the north. There is, however, a risk that this is merely an artefact of the degree of prospecting and/or the levels of exposure. As currently understood (e.g. Giblin & Armhurst, 1973, etc.) the Carp river fault is a late, relatively minor feature, and is likely entirely a brittle feature (although no evidence could be found to support a reactivated Archean feature, this remains possible), suggesting that its potential for contributing to mineralization of the observed styles is low. A possible explanation of apparent difference in prospectivity across the Carp River Fault may lie in a modest vertical offset, exposing a more altered, deformed and mineralized zone to the south; however the possibility of an observational bias (till cover, etc) cannot be dismissed without further work.

The zone centred on the hill at 695993E, 5210858N is highly anomalous in terms of the orientations of the local fabrics. This feature is related to a steeply plunging fold closure (See Figure XXX), and the variance of local foliation trajectories with the dominant regional trends suggests potential for further structural complexities. While no significant mineralization vectors were noted in this location, it remains a potential host for dilational zones and local high-strain adjustment zones.

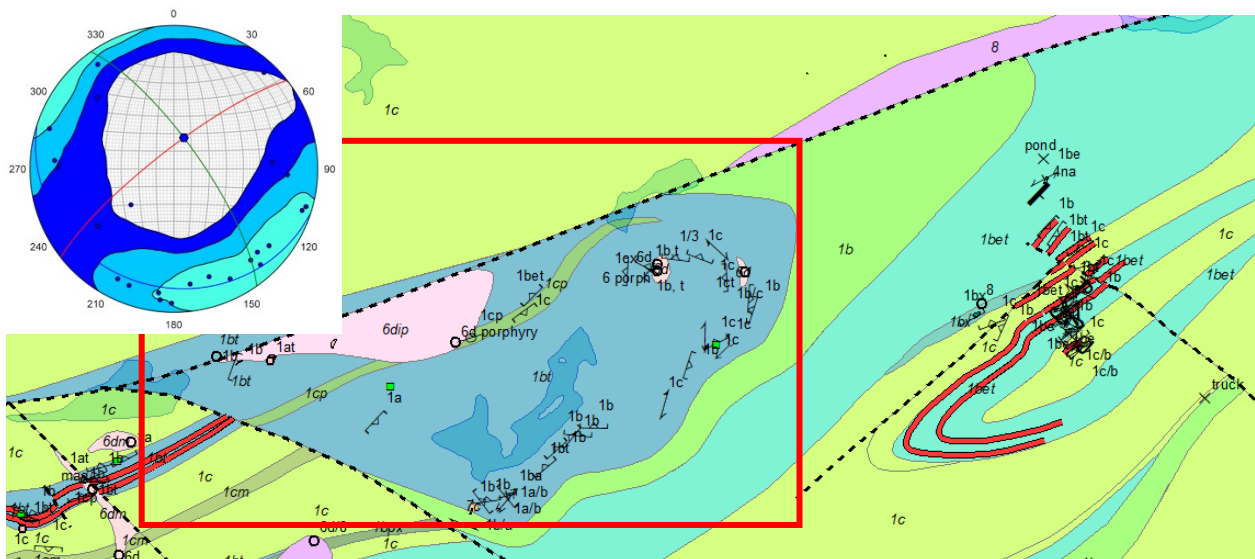


Figure 3: significant fold of dominant fabric (red rectangle), with net showing  $S_{main}$  foliations. The Trench Zone and associated high-strain zones is shown as the red linework to the right of the cartoon.

There appears to be potential for a gross lithological control on distribution of mineralized high-strain zones. This is perhaps more likely due to rheological considerations than to chemical ones, but it does point towards the value of a systematic campaign of WR collection, to better establish the stratigraphy and guide future exploration efforts, particularly as the possibility exists for visually (hand-sample) similar units to be, in fact, geochemically and rheologically distinct.

Given the observed variations in the magnetic character of various units within the claim group, a reasonably detailed property-scale aeromagnetic product would be invaluable for future re-interpretations of the local geology, lending confidence to current targeting concepts. Furthermore, the dominant iron-carbonate alteration associated with the principal expressions of gold mineralization on the property may potentially have an effect on the magnetic character of the host lithologies. This effect would probably take the form of mag-destruction, but this has not been evaluated.

Modest geophysical coverage is available for certain key zones of the property. A detailed discussion of the available geophysical products is beyond the scope of this study and beyond the knowledge of the author, however it is recommended that the raw data be submitted to a third-party geophysical consultant for inversion: the distribution and form of various geophysical features appears potentially in conflict with key lithological trends, and is therefore possibly suspect. Given the reasonable expectation that the mineralized high-strain features of the WishOre property may be more laterally extensive than represented in extant trenching, expanding the footprint of geophysical coverage may be warranted.

Theoretically, further potential exists in the true iron-formations (fine, laminar appearance, local possible cherty material), on account of their inherent geochemical properties and the presence, at least locally, of sulphides within them. Particular attention should be paid, while prospecting, to horizons similar to those noted at 693381E, 5210009N, where locally weak iron formation is found in close proximity to weak iron-carbonate alteration zones; in this location, neither appears to be significantly mineralized, however the potential for interaction between a geochemically reactive unit (iron-formation) and a documented fluid, alteration and gold pathway (altered high-strain zone) should likely be viewed as prospective.

Additionally, it is worth noting that exposures of large bull quartz veins and similar float have been noted near and within the NW-trending late lineaments. Visually, these would not be expected to be gold-bearing, however some follow-up prospecting may be warranted.

Another small project that would be worth doing would be to use the recently-acquired LIDAR data to generate a detailed lineament feature class and attempt to assign generations to each – in other words, to allow some degree of “un-faulting” to be carried out. As the principal mineralized horizons are early (pre- to syn-  $S_{main}$ ), and most if not all of the notable faults are late, identifying offsets along these faults would assist greatly in reconstructing the actual distribution of the prospective, along-strike extensions of the mineralized zones on the property.

Finally, it should be noted that mineralizing systems occasionally display a metal zonation from proximal to distal facies (numerous workers have pointed this out, in a wide range of environments). It is not currently known if such metal zonation occurs at WishOre, however once the along-strike extensions of the High-Strain host zones have been sampled at an adequate density, it is highly recommended that the multielement dataset be submitted to a third-party expert for examination and possible determination of geochemical gold vectors.

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