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# ASSESSMENT REPORT



April 21st, 2023

Tocheri Lake Project – 2022 Field Program

Matthew & Welsh Twp.

**For:**

Fulcrum Metals PLC

Unit 58  
Basepoint Business Centre  
Isidore Road  
Bromsgrove Enterprise Park  
Bromsgrove, England  
B60 3ET.



Prepared by:  
Steven Flank, P.Geo, MSc

## Summary

From Aug 6<sup>th</sup> – 15<sup>th</sup> 2022 Geologist Ben McSheffrey and field assistant Sam Ghantous prospected and collected samples on the Tocheri Lake property (Figure 1). A total of 71 stations were recorded and 16 samples were taken. The samples taken for assaying consisted of mafic volcanics, intermediate volcanics, pyroxenite, diorite, gabbro, and granodiorite.

The main objective was to prospect for geological indicators of Au, Ni, Cu, and PGE deposits using a map of magnetic anomalies within the targeted areas. Previous work had been done in the Most Northeastern target, specifically on the Olivier occurrence. The goal was to prospect this occurrence and determine if any of the rocks in the area had potential for gold and/or Ni, Cu and PGE.

The 2022 prospecting program at the Tocheri project successfully located the historic Olivier Occurrence and also resulted in the explanation of a number of magnetic anomalies on the property. Although no significant assays were returned from the sampling program, the insight gained from the work is valuable. The property is adjacent to a number of historic Ni-Cu-PGE occurrences (Smoke Lake, Tyko, West Pickle) which are currently being explored with success. The intrusions that host the mineralization are small with very discreet magnetic expression. Airborne electromagnetic surveys have been used with success to locate new zones of mineralization in the area recently.

Given the large property position and the limited outcrop in areas of interest on the property an airborne EM survey is recommended on the Tocheri property as a next step. Any conductors of interest should be ground truthed which would dictate next steps for the property.

## Table of Contents

Summary.....	2
1.0 Property Description and Location.....	4
1.1 Location and Access .....	4
1.2 Physiography .....	4
1.3 Claim Status .....	4
2.0 History .....	10
3.0 Geology .....	11
3.1 Regional Geology.....	11
3.2 Property Geology .....	12
4.0 2022 Surface Prospecting Program.....	12
4.1 Sampling Locations and Methodology.....	12
4.2 Assay Methodology.....	14
4.3 Results.....	14
4.3.1 Lithology Summary.....	14
4.3.2 Olivier Occurrence.....	15
4.3.3 Magnetic Targets.....	16
4.3.4 Sampling.....	22
5.0 Conclusions and Recommendations.....	24
6.0 Expenditures.....	25
7.0 References.....	26
8.0 Statement of Qualifications.....	27
Appendix A: Daily Logs.....	28
Appendix B Certificates of Analyses.....	22
Appendix C: Maps.....	57
Appendix D: Station Descriptions.....	76

## 1.0 Property Description and Location

### 1.1 Location and Access

The property is situated within an Archean granitoid pluton that hosts a lens of northeast-southwest trending migmatized supracrustal rocks (Figure 1). The Tocheri Lake property is located within the Wawa subprovince in the Matthews and Welsh Townships, just south of Tocheri Lake (Figure 2). The property is located roughly 28km southwest of Hornepayne, approximately 44km east southeast of Manitouwadge, and 55km northwest of the Williams Mine.

The property was accessed by truck from White River by travelling 45km north on Danny Lake Road and the utilizing a series of unnamed logging roads to access either the northern portion of the property or the southern portion of the property. A UTV was used to gain access to the claim group but in general there are few trails in place so the claims had to be accessed largely by foot.

### 1.2 Physiography

The Tocheri Lake property is situated in the Abitibi Upland subregion, within the James Region of the Canadian Shield (Douglas 1972; Bone, 2003). The terrain in the Hornepayne area have broadly rolling surfaces with a wide range of elevations ranging from 483 masl near the southwest edge to 263 masl in the northeast corner of the area. Overburden consists of mostly thin glaciolacustrine deposits and glaciofluvial deposits with small amounts of organic deposits (Hancox and Schneider, 2014). The Tocheri Lake Property is situated within the Lake Superior drainage basin. It is within the Boreal Forest region which contains plant species which include black spruce, jack pine, trembling aspen, balsam poplar, white spruce, balsam fir, white birch, white pine, and red pine (Hancox and Schneider, 2014). The Manitouwadge area based on Environment Canada's Manitouwadge and Geraldton climate stations from 1971-2000 is within the temperate and humid continental climate zone, with mild summers and cold winters (Hancox and Schneider, 2014). Temperatures range from highs of 39°C in the summers to lows of -45°C in the winters with average annual temperatures of 1°C (Hancox and Schneider, 2014). Average annual precipitation is 859mm with higher amounts of precipitation occurring between June and October (Hancox and Schneider, 2014).

### 1.3 Claim Status

The Tocheri Lake property consists of 299 single cell mining claims spanning approximately 6336.74 hectares. These claims are 100% owned by Fulcrum Metals (Table 1). As of completing this report, all claims are active, and in good standing.

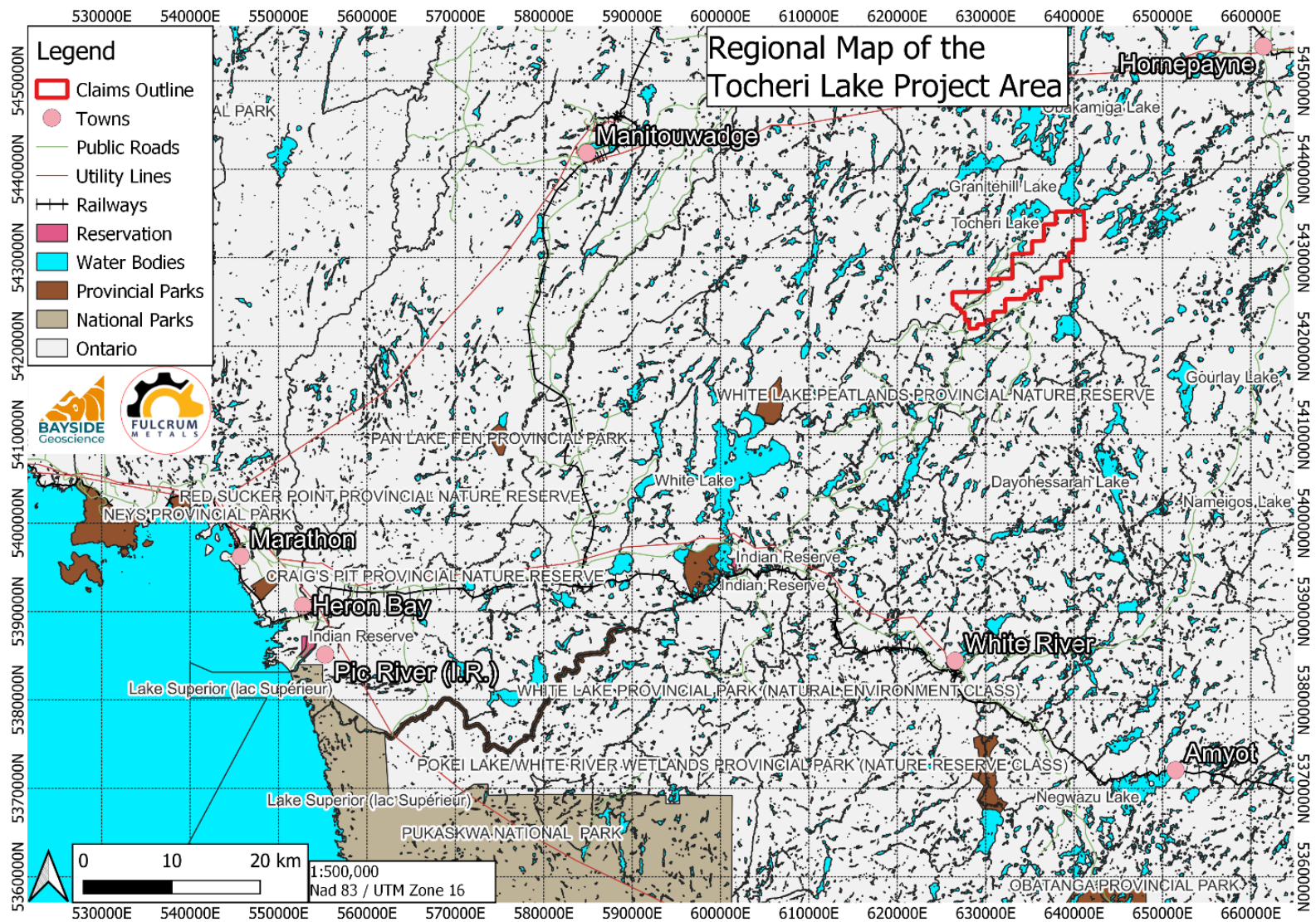


Figure 1: Regional map covering the Tocheri Lake property

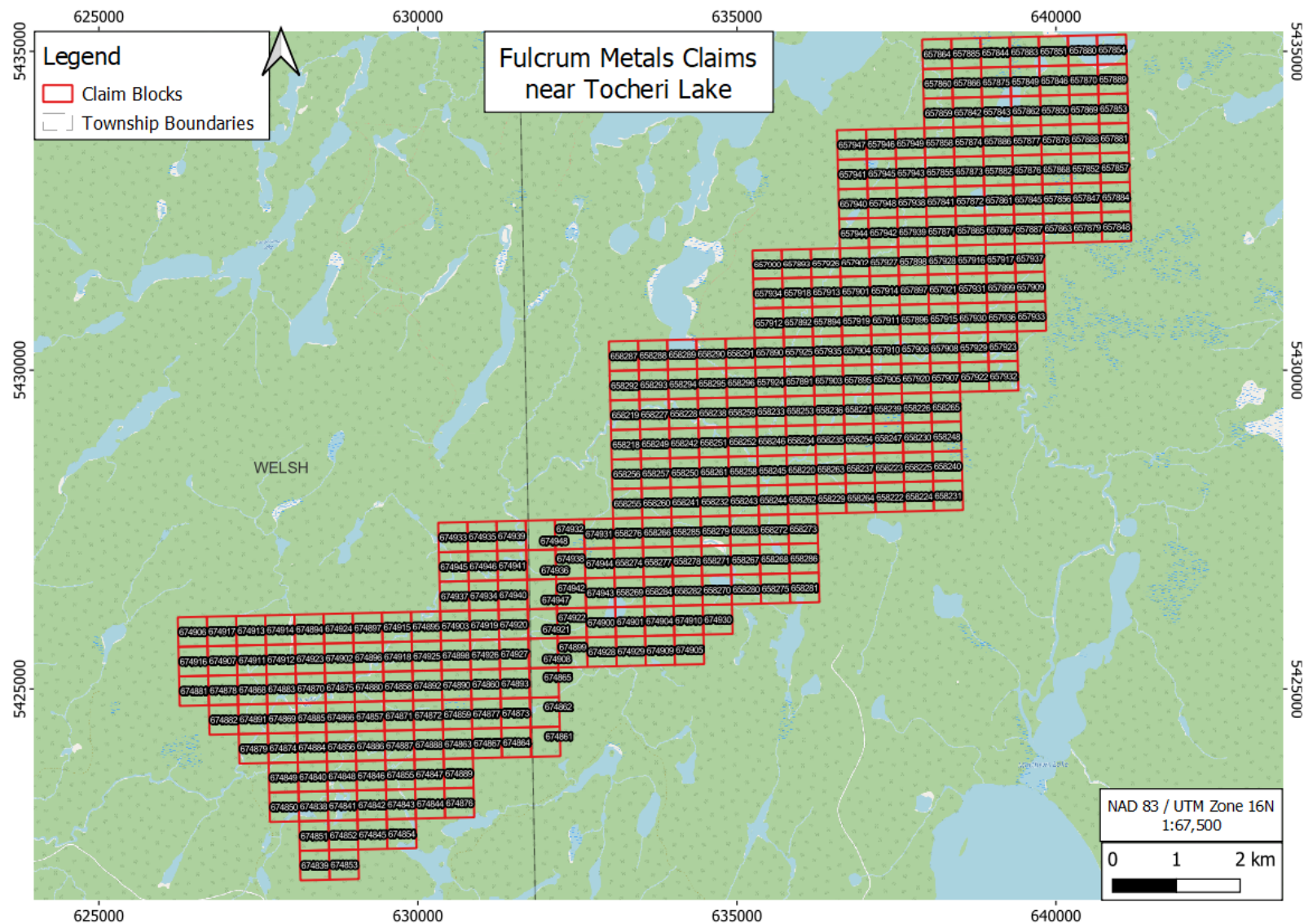


Figure 2. Map showing claim blocks owned by Fulcrum Metals on the Tocheri Lake property

Table 1. List of active claims 100% owned by Fulcrum Metals within the Tocheri Lake property

Tenure ID	Township/ Area	Anniversary Date	Tenure ID	Township/ Area	Anniversary Date
674944	MATTHEWS	2023-09-08	657896	MATTHEWS	2023-05-02
674943	MATTHEWS	2023-09-08	657895	MATTHEWS	2023-05-02
674942	MATTHEWS	2023-09-08	657894	MATTHEWS	2023-05-02
674938	MATTHEWS	2023-09-08	657893	MATTHEWS	2023-05-02
674932	MATTHEWS	2023-09-08	657892	MATTHEWS	2023-05-02
674931	MATTHEWS	2023-09-08	657891	MATTHEWS	2023-05-02
674930	MATTHEWS	2023-09-08	657890	MATTHEWS	2023-05-02
674929	MATTHEWS	2023-09-08	657889	MATTHEWS	2023-05-02
674928	MATTHEWS	2023-09-08	657888	MATTHEWS	2023-05-02
674922	MATTHEWS	2023-09-08	657887	MATTHEWS	2023-05-02
674910	MATTHEWS	2023-09-08	657886	MATTHEWS	2023-05-02
674909	MATTHEWS	2023-09-08	657885	MATTHEWS	2023-05-02
674905	MATTHEWS	2023-09-08	657884	MATTHEWS	2023-05-02
674904	MATTHEWS	2023-09-08	657883	MATTHEWS	2023-05-02
674901	MATTHEWS	2023-09-08	657882	MATTHEWS	2023-05-02
674900	MATTHEWS	2023-09-08	657881	MATTHEWS	2023-05-02
674899	MATTHEWS	2023-09-08	657880	MATTHEWS	2023-05-02
658296	MATTHEWS	2023-05-24	657879	MATTHEWS	2023-05-02
658295	MATTHEWS	2023-05-24	657878	MATTHEWS	2023-05-02
658294	MATTHEWS	2023-05-24	657877	MATTHEWS	2023-05-02
658293	MATTHEWS	2023-05-24	657876	MATTHEWS	2023-05-02
658292	MATTHEWS	2023-05-24	657875	MATTHEWS	2023-05-02
658291	MATTHEWS	2023-05-24	657874	MATTHEWS	2023-05-02
658290	MATTHEWS	2023-05-24	657873	MATTHEWS	2023-05-02
658289	MATTHEWS	2023-05-24	657872	MATTHEWS	2023-05-02
658288	MATTHEWS	2023-05-24	657871	MATTHEWS	2023-05-02
658287	MATTHEWS	2023-05-24	657870	MATTHEWS	2023-05-02
658286	MATTHEWS	2023-05-24	657869	MATTHEWS	2023-05-02
658285	MATTHEWS	2023-05-24	657868	MATTHEWS	2023-05-02
658284	MATTHEWS	2023-05-24	657867	MATTHEWS	2023-05-02
658283	MATTHEWS	2023-05-24	657866	MATTHEWS	2023-05-02
658282	MATTHEWS	2023-05-24	657865	MATTHEWS	2023-05-02
658281	MATTHEWS	2023-05-24	657864	MATTHEWS	2023-05-02
658280	MATTHEWS	2023-05-24	657863	MATTHEWS	2023-05-02
658279	MATTHEWS	2023-05-24	657862	MATTHEWS	2023-05-02
658278	MATTHEWS	2023-05-24	657861	MATTHEWS	2023-05-02
658277	MATTHEWS	2023-05-24	657860	MATTHEWS	2023-05-02
658276	MATTHEWS	2023-05-24	657859	MATTHEWS	2023-05-02
658275	MATTHEWS	2023-05-24	657858	MATTHEWS	2023-05-02
658274	MATTHEWS	2023-05-24	657857	MATTHEWS	2023-05-02
658273	MATTHEWS	2023-05-24	657856	MATTHEWS	2023-05-02
658272	MATTHEWS	2023-05-24	657855	MATTHEWS	2023-05-02
658271	MATTHEWS	2023-05-24	657854	MATTHEWS	2023-05-02



Tenure ID	Township/ Area	Anniversary Date	Tenure ID	Township/ Area	Anniversary Date
658270	MATTHEWS	2023-05-24	657853	MATTHEWS	2023-05-02
658269	MATTHEWS	2023-05-24	657852	MATTHEWS	2023-05-02
658268	MATTHEWS	2023-05-24	657851	MATTHEWS	2023-05-02
658267	MATTHEWS	2023-05-24	657850	MATTHEWS	2023-05-02
658266	MATTHEWS	2023-05-24	657849	MATTHEWS	2023-05-02
658265	MATTHEWS	2023-05-24	657848	MATTHEWS	2023-05-02
658264	MATTHEWS	2023-05-24	657847	MATTHEWS	2023-05-02
658263	MATTHEWS	2023-05-24	657846	MATTHEWS	2023-05-02
658262	MATTHEWS	2023-05-24	657845	MATTHEWS	2023-05-02
658261	MATTHEWS	2023-05-24	657844	MATTHEWS	2023-05-02
658260	MATTHEWS	2023-05-24	657843	MATTHEWS	2023-05-02
658259	MATTHEWS	2023-05-24	657842	MATTHEWS	2023-05-02
658258	MATTHEWS	2023-05-24	657841	MATTHEWS	2023-05-02
658257	MATTHEWS	2023-05-24	674948	MATTHEWS,WELSH	2023-09-08
658256	MATTHEWS	2023-05-24	674947	MATTHEWS,WELSH	2023-09-08
658255	MATTHEWS	2023-05-24	674936	MATTHEWS,WELSH	2023-09-08
658254	MATTHEWS	2023-05-24	674921	MATTHEWS,WELSH	2023-09-08
658253	MATTHEWS	2023-05-24	674908	MATTHEWS,WELSH	2023-09-08
658252	MATTHEWS	2023-05-24	674865	MATTHEWS,WELSH	2023-09-08
658251	MATTHEWS	2023-05-24	674862	MATTHEWS,WELSH	2023-09-08
658250	MATTHEWS	2023-05-24	674861	MATTHEWS,WELSH	2023-09-08
658249	MATTHEWS	2023-05-24	674946	WELSH	2023-09-08
658248	MATTHEWS	2023-05-24	674945	WELSH	2023-09-08
658247	MATTHEWS	2023-05-24	674941	WELSH	2023-09-08
658246	MATTHEWS	2023-05-24	674940	WELSH	2023-09-08
658245	MATTHEWS	2023-05-24	674939	WELSH	2023-09-08
658244	MATTHEWS	2023-05-24	674937	WELSH	2023-09-08
658243	MATTHEWS	2023-05-24	674935	WELSH	2023-09-08
658242	MATTHEWS	2023-05-24	674934	WELSH	2023-09-08
658241	MATTHEWS	2023-05-24	674933	WELSH	2023-09-08
658240	MATTHEWS	2023-05-24	674927	WELSH	2023-09-08
658239	MATTHEWS	2023-05-24	674926	WELSH	2023-09-08
658238	MATTHEWS	2023-05-24	674925	WELSH	2023-09-08
658237	MATTHEWS	2023-05-24	674924	WELSH	2023-09-08
658236	MATTHEWS	2023-05-24	674923	WELSH	2023-09-08
658235	MATTHEWS	2023-05-24	674920	WELSH	2023-09-08
658234	MATTHEWS	2023-05-24	674919	WELSH	2023-09-08
658233	MATTHEWS	2023-05-24	674918	WELSH	2023-09-08
658232	MATTHEWS	2023-05-24	674917	WELSH	2023-09-08
658231	MATTHEWS	2023-05-24	674916	WELSH	2023-09-08
658230	MATTHEWS	2023-05-24	674915	WELSH	2023-09-08
658229	MATTHEWS	2023-05-24	674914	WELSH	2023-09-08
658228	MATTHEWS	2023-05-24	674913	WELSH	2023-09-08
658227	MATTHEWS	2023-05-24	674912	WELSH	2023-09-08

Tenure ID	Township/ Area	Anniversary Date	Tenure ID	Township/ Area	Anniversary Date
658226	MATTHEWS	2023-05-24	674911	WELSH	2023-09-08
658225	MATTHEWS	2023-05-24	674907	WELSH	2023-09-08
658224	MATTHEWS	2023-05-24	674906	WELSH	2023-09-08
658223	MATTHEWS	2023-05-24	674903	WELSH	2023-09-08
658222	MATTHEWS	2023-05-24	674902	WELSH	2023-09-08
658221	MATTHEWS	2023-05-24	674898	WELSH	2023-09-08
658220	MATTHEWS	2023-05-24	674897	WELSH	2023-09-08
658219	MATTHEWS	2023-05-24	674896	WELSH	2023-09-08
658218	MATTHEWS	2023-05-24	674895	WELSH	2023-09-08
657949	MATTHEWS	2023-05-22	674894	WELSH	2023-09-08
657948	MATTHEWS	2023-05-22	674893	WELSH	2023-09-08
657947	MATTHEWS	2023-05-22	674892	WELSH	2023-09-08
657946	MATTHEWS	2023-05-22	674891	WELSH	2023-09-08
657945	MATTHEWS	2023-05-22	674890	WELSH	2023-09-08
657944	MATTHEWS	2023-05-22	674889	WELSH	2023-09-08
657943	MATTHEWS	2023-05-22	674888	WELSH	2023-09-08
657942	MATTHEWS	2023-05-22	674887	WELSH	2023-09-08
657941	MATTHEWS	2023-05-22	674886	WELSH	2023-09-08
657940	MATTHEWS	2023-05-22	674885	WELSH	2023-09-08
657939	MATTHEWS	2023-05-22	674884	WELSH	2023-09-08
657938	MATTHEWS	2023-05-22	674883	WELSH	2023-09-08
657937	MATTHEWS	2023-05-22	674882	WELSH	2023-09-08
657936	MATTHEWS	2023-05-22	674881	WELSH	2023-09-08
657935	MATTHEWS	2023-05-22	674880	WELSH	2023-09-08
657934	MATTHEWS	2023-05-22	674879	WELSH	2023-09-08
657933	MATTHEWS	2023-05-22	674878	WELSH	2023-09-08
657932	MATTHEWS	2023-05-22	674877	WELSH	2023-09-08
657931	MATTHEWS	2023-05-22	674876	WELSH	2023-09-08
657930	MATTHEWS	2023-05-22	674875	WELSH	2023-09-08
657929	MATTHEWS	2023-05-22	674874	WELSH	2023-09-08
657928	MATTHEWS	2023-05-22	674873	WELSH	2023-09-08
657927	MATTHEWS	2023-05-22	674872	WELSH	2023-09-08
657926	MATTHEWS	2023-05-22	674871	WELSH	2023-09-08
657925	MATTHEWS	2023-05-22	674870	WELSH	2023-09-08
657924	MATTHEWS	2023-05-22	674869	WELSH	2023-09-08
657923	MATTHEWS	2023-05-22	674868	WELSH	2023-09-08
657922	MATTHEWS	2023-05-22	674867	WELSH	2023-09-08
657921	MATTHEWS	2023-05-22	674866	WELSH	2023-09-08
657920	MATTHEWS	2023-05-22	674864	WELSH	2023-09-08
657919	MATTHEWS	2023-05-22	674863	WELSH	2023-09-08
657918	MATTHEWS	2023-05-22	674860	WELSH	2023-09-08
657917	MATTHEWS	2023-05-22	674859	WELSH	2023-09-08
657916	MATTHEWS	2023-05-22	674858	WELSH	2023-09-08
657915	MATTHEWS	2023-05-22	674857	WELSH	2023-09-08

Tenure ID	Township/ Area	Anniversary Date	Tenure ID	Township/ Area	Anniversary Date
657914	MATTHEWS	2023-05-22	674856	WELSH	2023-09-08
657913	MATTHEWS	2023-05-22	674855	WELSH	2023-09-08
657912	MATTHEWS	2023-05-22	674854	WELSH	2023-09-08
657911	MATTHEWS	2023-05-22	674853	WELSH	2023-09-08
657910	MATTHEWS	2023-05-22	674852	WELSH	2023-09-08
657909	MATTHEWS	2023-05-22	674851	WELSH	2023-09-08
657908	MATTHEWS	2023-05-22	674850	WELSH	2023-09-08
657907	MATTHEWS	2023-05-22	674849	WELSH	2023-09-08
657906	MATTHEWS	2023-05-22	674848	WELSH	2023-09-08
657905	MATTHEWS	2023-05-22	674847	WELSH	2023-09-08
657904	MATTHEWS	2023-05-22	674846	WELSH	2023-09-08
657903	MATTHEWS	2023-05-22	674845	WELSH	2023-09-08
657902	MATTHEWS	2023-05-22	674844	WELSH	2023-09-08
657901	MATTHEWS	2023-05-22	674843	WELSH	2023-09-08
657900	MATTHEWS	2023-05-22	674842	WELSH	2023-09-08
657899	MATTHEWS	2023-05-22	674841	WELSH	2023-09-08
657898	MATTHEWS	2023-05-22	674840	WELSH	2023-09-08
657897	MATTHEWS	2023-05-22	674839	WELSH	2023-09-08
			674838	WELSH	2023-09-08

## 2.0 History

No assessment reports are available through the Ministry of Northern Development, Mines, Natural Resources and Forestry database directly within the Tocheri Lake property. However, three assessment reports are noted along the southeastern margin of the property, which are summarized in Table 2.

**Table 2.** Previous work conducted along the south-east boundary of the Tocheri Lake property.

Assessment Report Number	Title	Year	Company	Summary
42C14NE0010	Report on geophysical work	1983	Cadre Corp	Ground geophysical surveys (magnetic and electromagnetic) were completed to locate areas for Diamond Drilling. Discovered 55 conductive zones with 12 of interest for future drilling.
42C14NE8679	Geology and Prospecting Report on the Matthews Township Property	1984	Lobo Gold and Resources Inc.	Prospecting completed in order to assess all 55 conductors mentioned in assessment report 42C14NE0010. Concluded that 6 drill holes should be conducted to intersect the best anomalies noted in the field.

42C13NE8681	Diamond Drilling Report No 10 Matthews Township	1984	Lobo Gold and Resources Inc.	7 drill holes testing the best 6 conductive zones noted in assessments 42C14NE0010 and 42C14NE8679. Intersected pegmatite with a molybdenum occurrence. Report includes detailed drill logs.
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2 miscellaneous data releases from the Ontario Geological Survey with data from within or directly proximal to the Tocheri Lake property are available. These are summarized in Table 3.

**Table 3.** Available Miscellaneous Releases within and directly proximal to the Tocheri Lake property.

MRD Number	Title	Year	Summary
MRD 116	Lake Sediment and Water geochemical data from the Dayohessarah Lake area, Northeastern Ontario.	2003	Contains Cu, Ni and Au assays for sediment collected within and around the Tocheri Property.
MRD 250	Data from the PETROCH lithochemical database	2010	Contains Cu, Ni and Au assays for sediment collected within and around the Tocheri Property.

7 drill holes were completed by Lobo Gold and Resources proximal to the Tocheri Lake property in order to test 6 conductive zones noted within the area. It was determined that the conductive zones correlated to weakly mineralized shear zones or highly altered zones hosted within granitoid rocks. These drill holes intersected trace Au and Ag hosted primarily within hornblende schists.

## 3.0 Geology

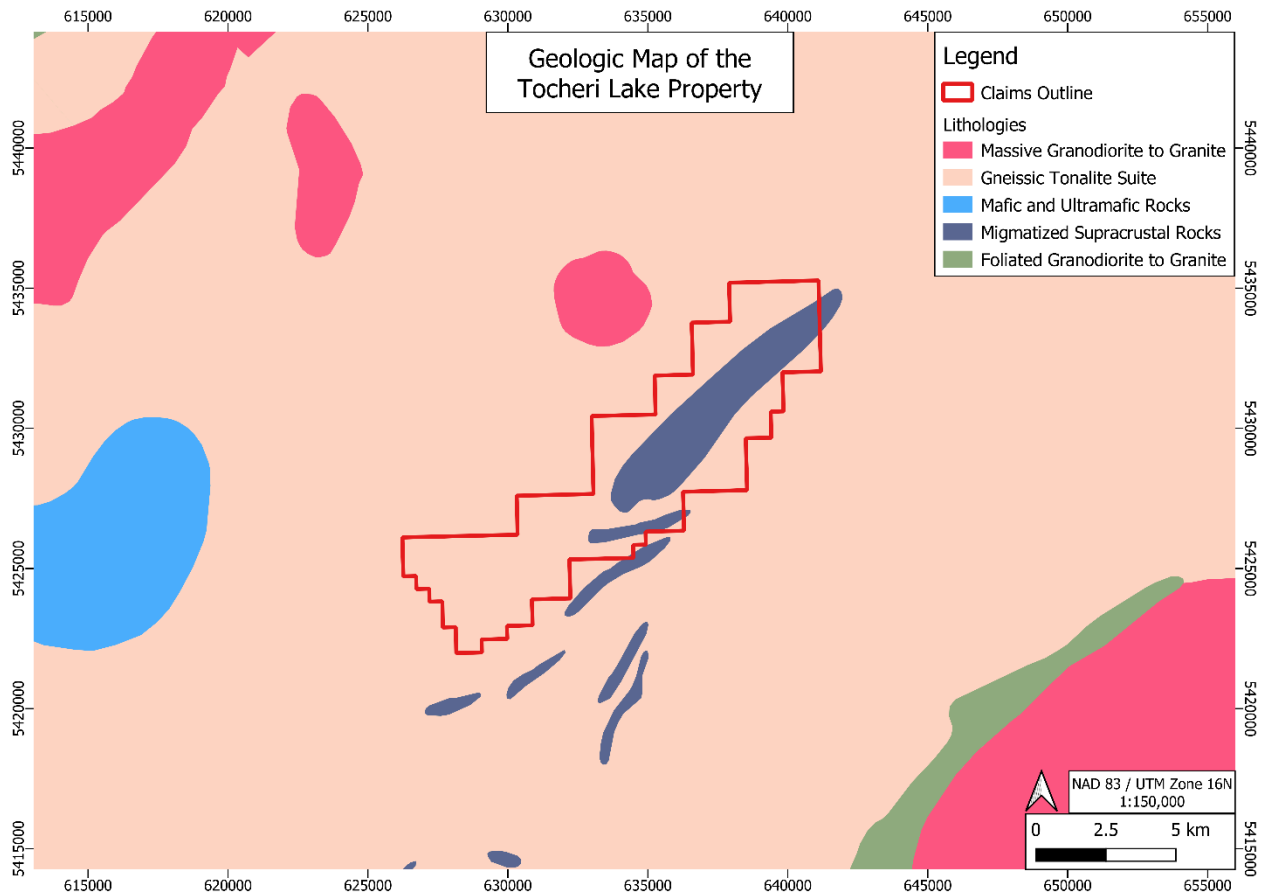
### 3.1 Regional Geology

The Tocheri Lake property is located within the Wawa sub province in the Matthews and Welsh Townships, just south of Tocheri Lake. The property is situated within an Archean granitoid pluton that hosts a lens of northeast-southwest trending migmatized supracrustal rocks (See Figure 1. above).

In their assessment report titled 'Geological and Prospecting Report of the Matthews Township property of Lobo Gold Resources Inc' (1984), it's noted that the northeast-southwest trending lenses are ribbons of amphibolite and hornblende schist with lesser amygdaloidal lava. Note that this lens is not the same lens found within the Tocheri Lake property, but rather a lens located along the southeast margin of the Tocheri Lake property (Figure 2). The amygdaloidal lava is a quartz-plagioclase-hornblende schist with round amygdules of quartz and phenocrysts of plagioclase. Both the amygdules and phenocrysts are elongated. The amphibolite is a dark green to rusty brown rock with a very poor schistosity. The

composition is 90% hornblende with the remaining 10% predominantly composed of plagioclase (partially sericitized) and accessory minerals biotite + disseminated pyrite.

Giguere (1972) describes the northeast trending lenses as a belt of metamorphosed and strongly deformed mafic metavolcanic and minor metasedimentary rocks that are locally intruded by granitic gneisses of the Black-pic batholithic complex.



**Figure 3:** Regional geology around the Tocheri Lake property

### 3.2 Property Geology

In the northern part of the Tocheri Lake property (NAD 83, Zone 16, UTM 639000 5433400) is the Olivier occurrence. This occurrence is a gold, silver, copper and zinc occurrence discovered in 1968 by M. Olivier during stripping and blasting. Located along the base of a 50m high, northeast trending ridge, it's noted that this occurrence is situated near the northern tip of a northeast-trending belt (12 km long by 4 km wide) of metamorphosed and strongly deformed mafic meta-volcanic and minor metasedimentary rocks that are surrounded by and locally intruded by granitic gneisses of the Black-Pic batholithic complex. The Ontario Mineral Inventory records the sulphides as disseminated grains, narrow laminae and fracture fillings that are typically associated with quartz. Giguere collected a grab sample in 1968 for the Ontario Database of Minerals which returned assay values of 0.01 oz/t Au, 0.31 oz/t Ag and trace Cu. This occurrence is underlain primarily by strongly foliated (210°/subvertical), locally migmatitic quartz-

feldspar-hornblende gneiss and schist (McKay, 1994). McKay (1994) also notes that samples of the occurrence collected by P. Moses in 1993 returned assays of 625 ppm Cu and 125 ppm Zn, with no gold or silver detected. McKay also collected a series of samples in 1992, the results of which are summarized in Table 4.

**Table 4.** Assay results and sample descriptions of samples taken from the Olivier occurrence (McKay, 1994).

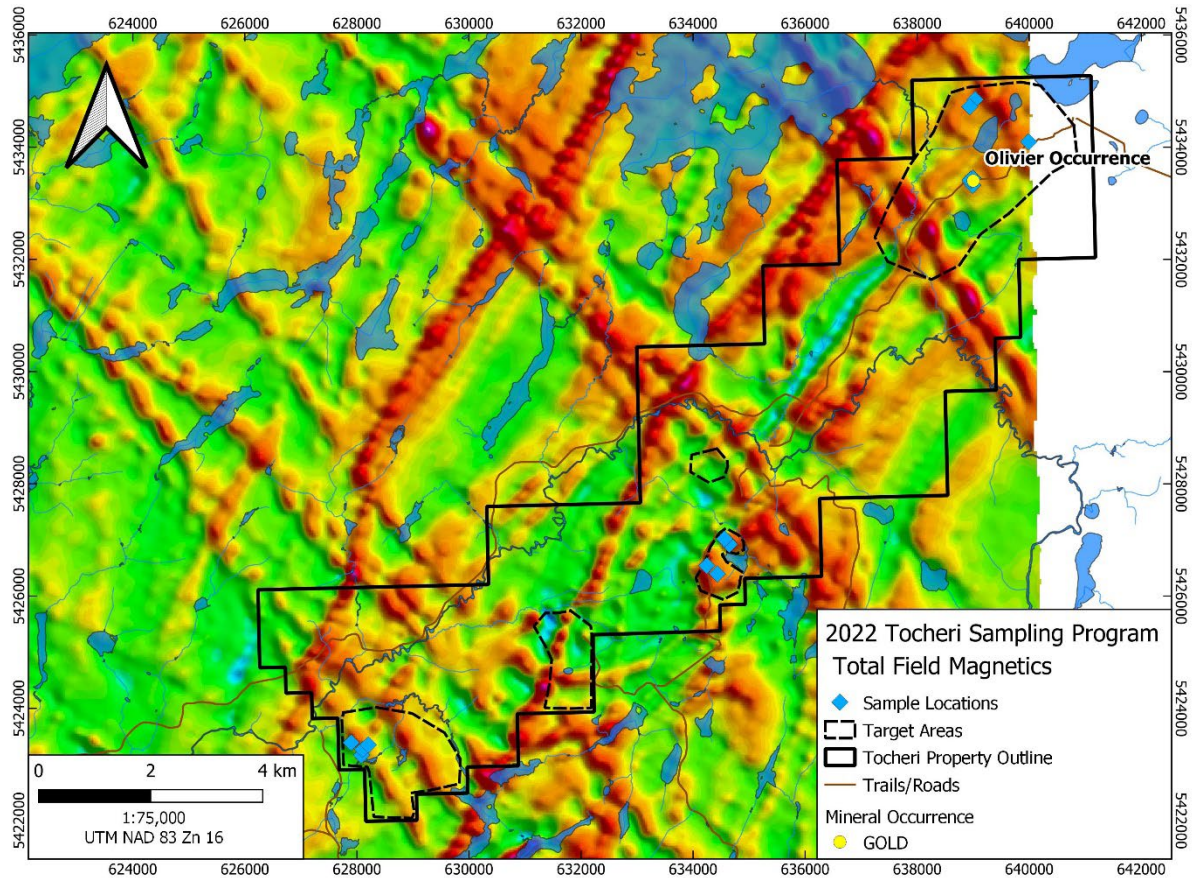
Sample Number	Au (oz/t)	Ag (oz/t)	Cu (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)	Sample description
92DBM-73	Nil	Nil	69	Not analyzed	<10	43	Dark grey-green, coarse-grained, moderately foliated, locally migmatitic, amphibolitic gneiss, non-magnetic, less than 1% medium to coarse grained pyrite as disseminated euhedra.
92DBM-74	Nil	Nil	146	22	<10	34	Rusty-weathering, dark green, coarse-grained, strongly foliated, amphibolitic gneiss, non-magnetic, 5% euhedral pyrite localized within narrow (1 to 3 mm wide), foliation-parallel seams and fractures.
92DBM-75	Nil	Nil	160	Not analyzed	<10	36	Rusty-weathering, dark green, coarse-grained, strongly foliated, amphibolitic gneiss, non-magnetic, less than 1% medium-grained pyrite localized along fractures.
92DBM-76	Nil	Nil	212	38	<10	33	Amphibolitic gneiss, similar to sample 91DBM-75, rare chalcopyrite.
92DBM-77	Nil	Nil	916	48	<10	195	Rusty-weathering, dark green, coarse-grained, moderately foliated, amphibolitic gneiss, 1% medium- to coarse-grained pyrrhotite, pyrite and rare chalcopyrite as fracture fillings, disseminated grains and local concentrations associated with quartz, locally weakly magnetic.

## 4.0 2022 Surface Prospecting Program

### 4.1 Sampling Locations and Methodology

The mapping and sampling program on the Tocheri Lake property was conducted between August 6<sup>th</sup> and August 15<sup>th</sup>, 2022. The purpose of the program was to locate and sample the Olivier Occurrence and prospect for Ni, Cu, PGE deposits. The team targeted a series of magnetic anomalies to prospect to determine if any of them could be explained by the presence of magnetic mafic-ultramafic intrusions which could host Ni-Cu-PGE mineralization (Figure 4). A team consisting of Geologist-in-Training Ben McSheffrey and field assistant Sam Ghantous from Bayside Geoscience Inc. completed the sampling program. Refer to Appendix A for daily logs of the work conducted during this program.

Traverses were planned to target magnetic anomalies, and to sample the Olivier Occurrence. Grab samples were collected at outcrops and boulders of interest using rock hammers and collecting 1-2 kg samples of material placed into labeled poly sample bags. Rock descriptions were recorded on QField 2.3.4 via a Samsung Galaxy Tab A7 Lite. A Garmin GPSMAP® 66i GPS Handheld and Satellite Communicator was used for safety communication, follow tracks, and to get more accurate location waypoints for the sample stations.



**Figure 4.** Target areas and sampling from the 2022 Tocheri Exploration Program.

#### 4.2 Assay Methodology

17 samples were collected from the Tocheri Lake property. 10 of the 17 samples were shipped to Activation Laboratories Ltd. in Thunder Bay, Ontario for sample preparation and analysis. No control samples were sent for analysis. Assay preparation was accomplished by crushing the rock to a 2mm particle size, mechanically splitting the sample to 250g, and then pulverizing the sample to 105µm. All samples were analyzed using IC-Exploration Fire Assay – ICP-MS (Au, Pt, Pd) and UT-1M Aqua Regia ICP-MS containing 36 elements (Ag, Al, As, Au [semi-quantitative], B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sr, Te, Th, Ti, Tl, V, W, Zn). Appendix B contains the certificates of analyses for the samples submitted.

#### 4.3 Results

##### 4.3.1 Lithology Summary

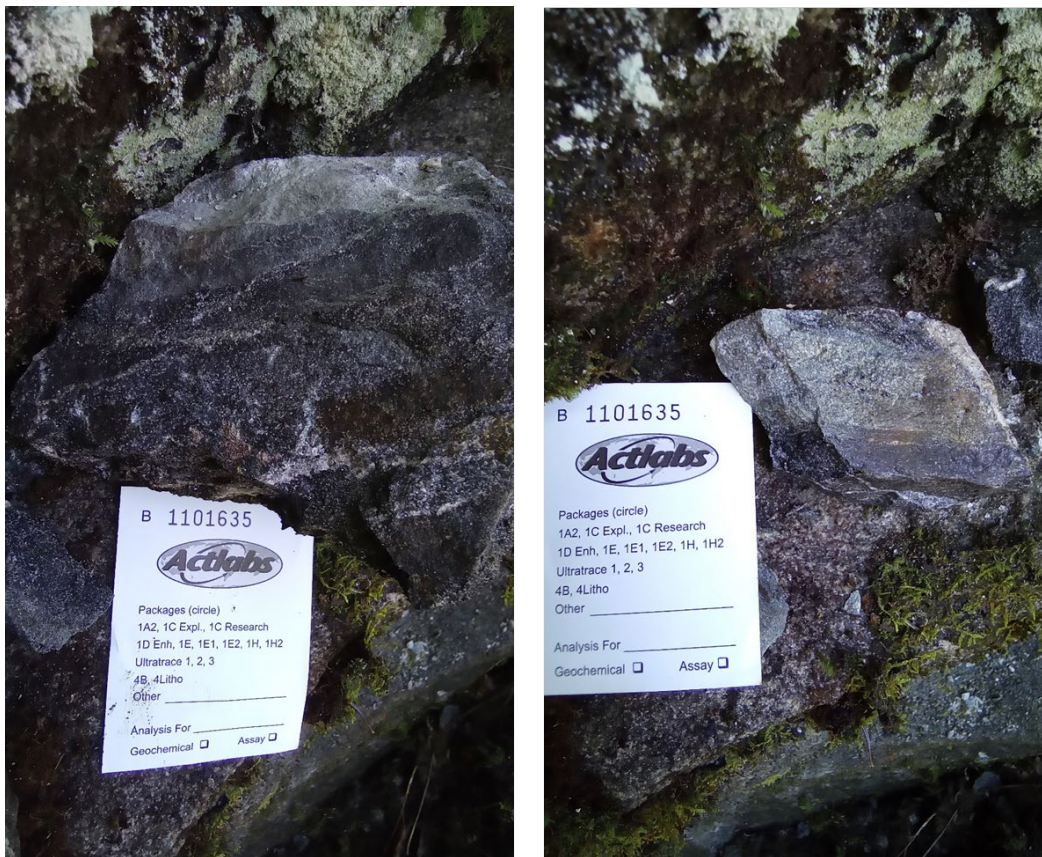
Most of the lithologies observed on the property were identified as felsic-intermediate intrusive rocks including diorite to granodiorite and granite. The diorite is grey, coarse grained, weak to no foliation, nonmagnetic, and unmineralized. Gneissic texture is sometimes observed between darker bands of biotite and lighter bands of feldspar and quartz. The diorite contains sections of more granite, granodiorite, gabbroic and leucogabbro compositions. Most of the granite lithologies encountered were classified as float, and not outcrop. Mafic volcanics were also observed relatively frequently. These mafic intrusive units were described as black, fine grained, pyroxene and biotite rich with stockwork

pegmatitic veins running throughout. These volcanics also contained up to 1.5% pyrite and displayed moderate magnetism. Minor lithologies on the property include migmatite, gabbro, quartz diorite, hornblendite, pyroxenite, and intermediate volcanics.

#### 4.3.2 Olivier Occurrence

Areas to the South of the Olivier occurrence are underlain by a series of diorites, gneisses and schists. Diorites are well foliated, composed of plagioclase, quartz and biotite +/- hornblende. Non magnetic and no mineralization. Gneisses in the area are granitic with weakly to moderately defined bands of biotite and hornblende, have spotty magnetism and no mineralization. Schists are white-black, coarse grained well foliated, composed of biotite, quartz and plagioclase. There are a series of pegmatites running through schist outcrop with no mineralization and no magnetism.

Areas to the West and Northwest of the occurrence and underlain by a series of amphibolite gneisses, and coarse-grained granites with large mafic intrusions. Amphibolites appear locally migmatized with moderate to strong deformation and separation of felsic and mafic bands (Figure 5).



**Figure 5.** Sulfide bearing mafic intrusive proximal to the Olivier Occurrence. Sample 1101635



### 4.3.3 Magnetic Targets

#### **Central Target: August 13, 2022**

The objective for the central target (Figure 6) was to investigate a discrete negative magnetic anomaly. The entire area is a low lying swamp with no visible outcrop or rock. No samples or stations were taken.

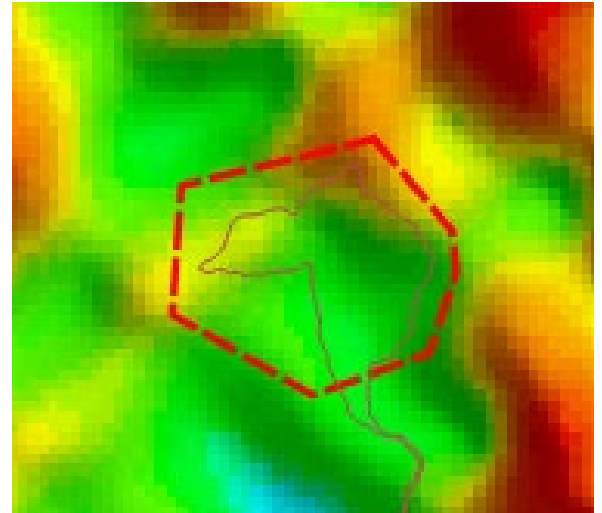


Figure 1: Central Target

#### **Central South Target: August 14 and August 15, 2022:**

This target was separated into the 3 separate areas – NE corner, Western perimeter, and SE corner.

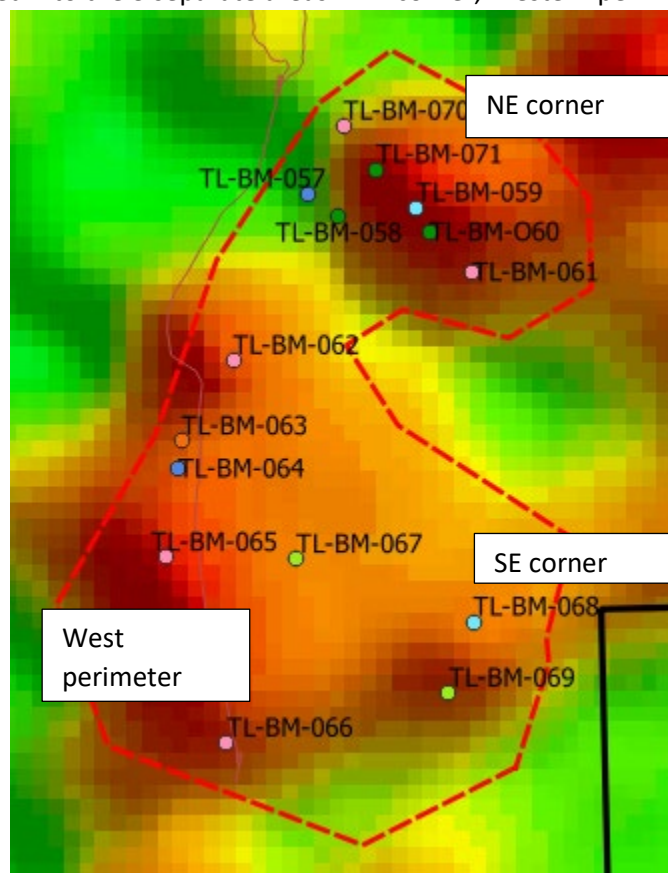


Figure 2: Central South target with labelled stations

NE corner: Topographic high defined by mafic volcanics, diorites and granites. Peak of the topographic high is composed of very fine to fine grained, strongly foliated, mafic volcanic gneiss with rustic weathering. Bands are composed of epidote and KSPAR alteration. No signs of mineralization and weakly magnetic. Sample taken at station TL-BM-071 (Figure 8). Sample was black, very fine grained, strongly foliated and strongly oxidized with quartz veining and 3% blebby and disseminated sulfides – chalcopyrite and pyrite. The sample was not magnetic.



Figure 8: Left image - Strongly oxidized mafic volcanic with 3% disseminated sulfides. Right image –photo of outcrop from sample 1101644.

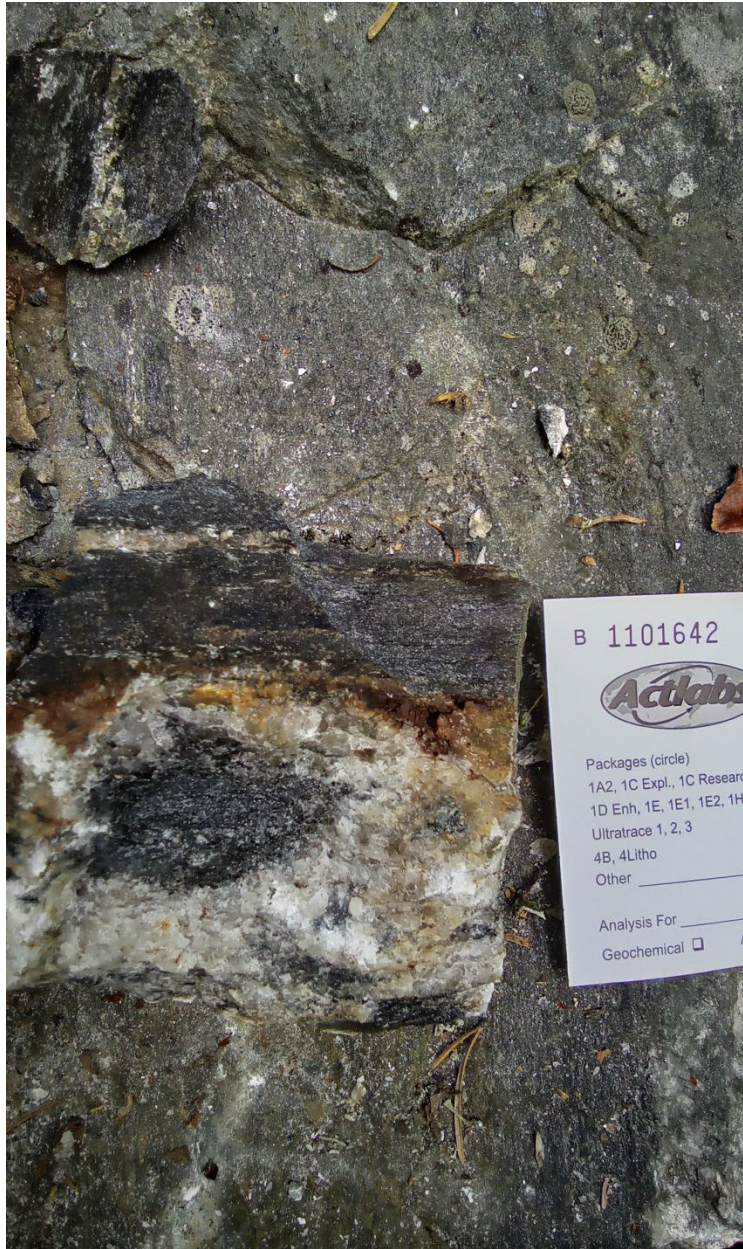
The middle of the target areas was comprised of medium grained well foliated plagioclase-biotite-quartz rich diorite gneissic unit (Figure 9). Up to 3% fine grained pyrite and chalcopyrite. Nonmagnetic.

The base of the high is underlain by pink-white coarse grained plagioclase-quartz-biotite rich granites that have no mineralization or magnetism.



Figure 9: Close up of diorite gneiss with 3% sulfides(left image) and outcrop(right image)

The western side of the target is underlain dominantly by the same granite units at the base of the topographic high in the NE corner. There is more epidote veining and strong pervasive KSPAR alteration. There are a series of pyroxenite boulders that are strongly foliated with chlorite veining (Figure 10). Moderate amount of foliaformed and crosscutting quartz veins (5-10cm in width) that carry up to 1% disseminated pyrite. No magnetism.



*Figure 3: Close up of pyroxenite sample with mineralized quartz vein*

The SE corner of the target area is underlain by large intermediate volcanics boulders, granitic and diorite outcrops. Intermediate volcanic boulders are light to medium grey, fine to medium grained well foliated with 2% disseminated sulfides. Minor felsic veining parallel to foliation. Intermediates were weakly magnetic.

Diorite in the area is white-black, fine grained, strongly foliated and cut by <1m wide Diabase that are strongly magnetic. Diabases are most likely responsible for mag highs in the area (Figure 12). No mineralization in this area. The granites were similar in composition to the western side of the target and base of the topographic with varying intensities of K-feldspar alteration.



*Figure 41: Diorite gneiss cross-cut by diabase dyke.*

### **Central Southwest Target: August 12**

The area is underlain by white-black medium to coarse grained, mafic rich and well foliated Diorite. Diorites range compositionally very slightly in their plagioclase content. Dominant minerals are mafic. There is no mineralization and no magnetism in any of the outcrop or float samples observed. No samples were taken.

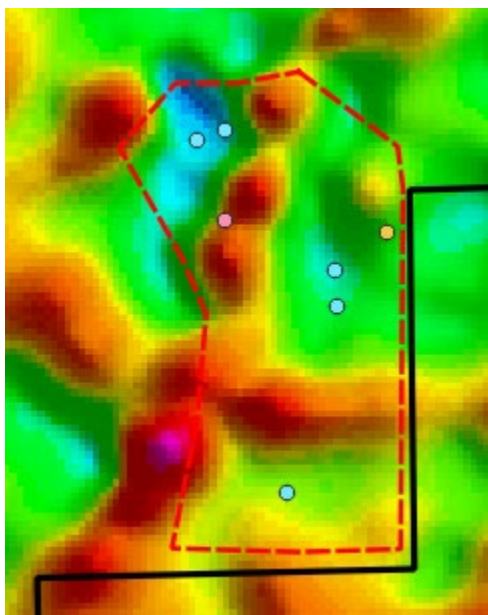


Figure 12: Central Southwest target with stations

### Southwest Target: August 10 and August 11

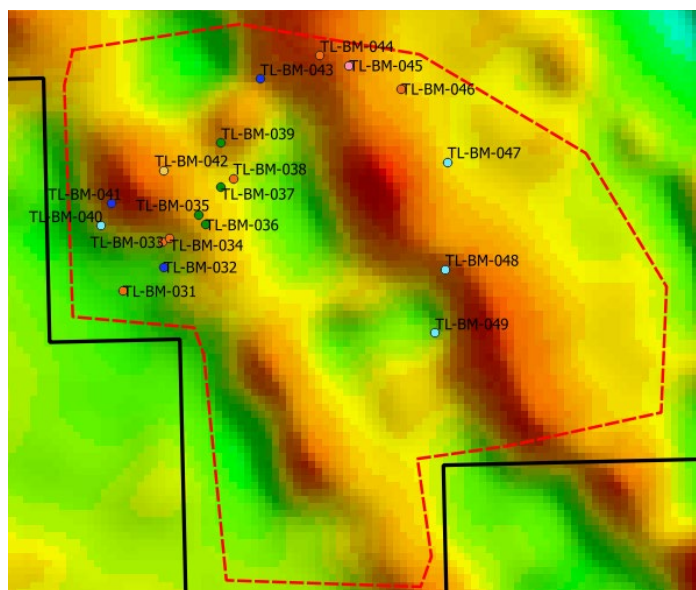
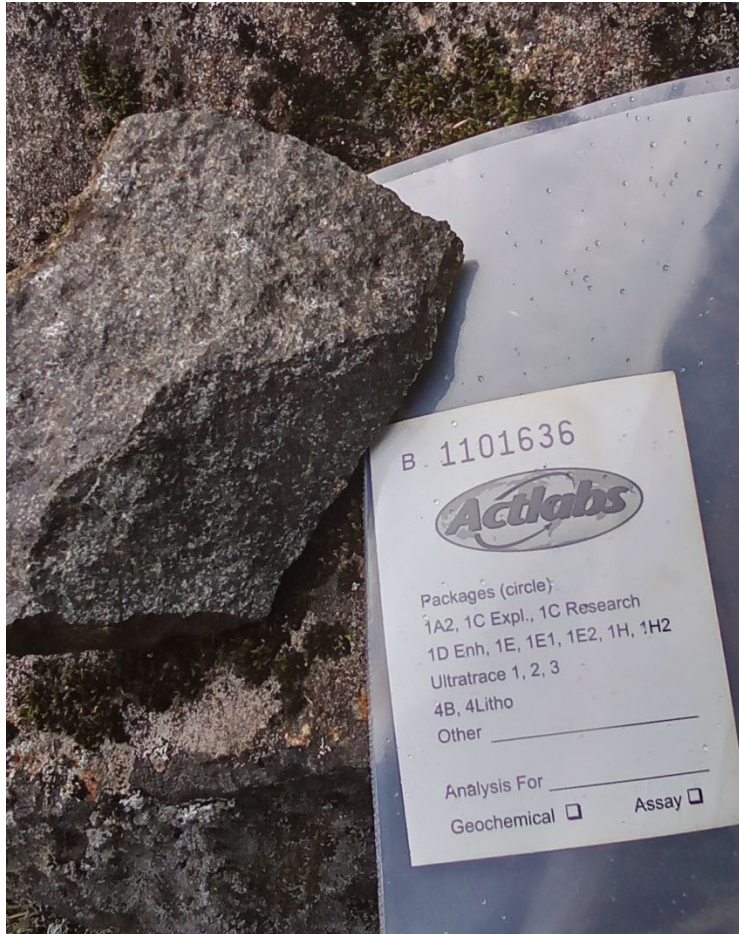


Figure 13: Southwest target with stations

This area is underlain by granodioritic gneisses and mafic volcanics. The granodioritic gneisses are generally white-pink-grey, medium grained, plagioclase-quartz biotite rich, strongly foliated and have trace amounts of magnetite. Foliation is striking approximately 020 and dipping 60 degrees West. The mafic volcanic unit is abundant in outcrop along a NE trend. It is fine grained, dominantly comprised of biotite and pyroxene, moderately magnetic and has up to 1.5% blebby and disseminated sulfides (Figure 15). It has a series of stockwork intruding pegmatites.



*Figure 54: close up of mafic volcanic rock with 1.5% sulfides*

The NE corner of this target is underlain by gabbro and diorite gneisses. The gabbros are medium grained, equigranular, moderately to strongly magnetic and contain trace sulfides. Samples were collected. The diorite gneisses are grey-white-black, medium grained, plagioclase and biotite rich and strongly foliated but have no mineralization or magnetization.

At the most Northern part of the target, the area is underlain by granites and granodiorites. The granodiorites are white-pink-grey, medium grained and well foliated with ribbons of mafic bands parallel to foliation. No mineralization or magnetism. The granites are pink, medium to coarse grained, moderately foliated, rich in plagioclase with strong pink KSPAR alteration and moderate patchy epidote alteration. No mineralization or magnetism.

#### 4.3.4 Sampling

17 samples were taken during this phase of work and 10 of those samples were ultimately selected to be sent for analysis. Table 6 displays sample descriptions, locations and results. None of the samples collected returned appreciable precious metal or base metal values. Station descriptions are shown in Appendix D.

**Table 6.** Sample descriptions with associated assay results

Sample ID	Easting	Northing	Elev.	Sample Type	Lithology	Notes	Au (ppb)	Cu (ppm)	Ni (ppm)
1101629	639030	5434812	361	Float	Granodiorite	Grey white medium to coarse grained plag-quartz rich granodiorite. Mafic crust of dominantly hornblendes and phlogopite/ biotite on top of granite. 0.5% euhedral pyrite in granite. Non-mag.	1.4	15.9	57.5
1101634	638944	5433391	407	Outcrop	Granite	White brown coarse grained quartz rich granite +/- plag with ribbons of mafic intrusions - mostly biotite. Trace sulfide and no mag.	2.5	36.7	28.3
1101635	638957	5433417	406	Outcrop	Granite	Protolith dominantly granitic. Large, 1-2 ft wide mafic intrusions, with moderate qtz veining. Veins/lets contain trace pyrite. Non magnetic. Pyrite is also 2% bleb/disseminated in mafics, fracture filled.	4.5	199	35.5
1101636	628072	5423175	367	Outcrop	Gabbro	Medium grained equigranular gabbro. Moderate to strong magnetism and 1% disseminated pyrite.	4	175	63
1101637	628094	5423263	372	Outcrop	Granodiorite	Medium grained white black strongly foliated granodiorite gneiss with distinct mafic and felsic bands. Trace amounts of magnetite.	3	21.9	0.9
1101638	628204	5423342	374	Outcrop	Mafic Volcanic	Black fg pyroxene-biotite rich mafic volcanic with stockwork pegmatitic veining. Up to 1.5% pyrite, moderately magnetic.	0.6	54.5	4.2
1101639	627892	5423387	392	Outcrop	Gabbro	Medium grey Medium grained equigranular mod to strong magnetic gabbro with 1% blebby pyrite.	5	145	65
1101642	634268	5426541	380	Float	Pyroxenite	Fine grained strongly foliated pyroxenite with weak chlorite veining. Moderate quartz veining. Veins are a mix of foliaform and crosscutting. Crosscutting QVs half 1 percent diss pyrite. Non mag.	4	118	60
1101643	634430	5426399	386	Float	Intermediate Volcanic	Light to medium grey, medium grained fg well foliated intermediate volcanic with 2% disseminated sulfides. Minor felsic veining parallel to foliation.	< 0.5	60.2	41.5
1101644	634559	5427024	393	Outcrop	Mafic Volcanic	Black fg strongly foliated strongly oxidized mafic volcanic with foliaform quartz veining and 3% blebby + diss sulfides - chalcopyrite and pyrite. Non mag.	2.6	52.5	5.5



## 5.0 Conclusions and Recommendations

The 2022 prospecting program at the Tocheri project successfully located the historic Olivier Occurrence and also resulted in the explanation of a number of magnetic anomalies on the property. Although no significant assays were returned from the sampling program, the insight gained from the work is valuable. The property is adjacent to a number of historic Ni-Cu-PGE occurrences (Smoke Lake, Tyko, West Pickle) which are currently being explored with success. The intrusions that host the mineralization are small with very discreet magnetic expression. Airborne electromagnetic surveys have been used with success to locate new zones of mineralization in the area recently.

Given the large property position and the limited outcrop in areas of interest on the property an airborne EM survey is recommended on the Tocheri property as a next step. Any conductors of interest should be ground truthed which would dictate next steps for the property.

## 6.0 Expenditures

**Table 7.** Total expenditures for the summer 2022 mapping and prospecting program at Tocheri Lake.

Expenditure Type	Cost/Unit	Units	Total
Geologist in Training	\$750.00	10	\$7,500.00
Field Assistant	\$525.00	10	\$5,250.00
Management Fee	\$1,500.00	1	\$1,500.00
Truck Rental	\$100.00	10	\$1,000.00
UTV Rental	\$200.00	10	\$2,000.00
Mob Demob	\$2,150.00	2	\$4,300.00
Lodging	\$1,556.00	1	\$1,556.00
Meals	\$50.00	24	\$1,200.00
Assays	\$53.03	10	\$530.30
Supplies	\$94.00	1	\$94.00
Fuel	\$739.73	1	\$739.73
Report Writing	\$4,000.00	1	\$4,000.00
		<b>Total</b>	<b>\$29,670.03</b>

**Table 8.** Expenditure per claim number

Cell ID	Grab Sample Count	Sample Analysis Costs	Mapping Station Count	Proportion of Stations/Cell	Labour/Fixed Costs	Total Cost/Cell
657844	1	\$53.03	2	2.99%	\$869.84	\$922.87
657850	0	\$0.00	7	10.45%	\$3,044.45	\$3,044.45
657866	0	\$0.00	1	1.49%	\$434.92	\$434.92
657869	0	\$0.00	1	1.49%	\$434.92	\$434.92
657875	0	\$0.00	2	2.99%	\$869.84	\$869.84
657877	0	\$0.00	2	2.99%	\$869.84	\$869.84
657882	0	\$0.00	4	5.97%	\$1,739.69	\$1,739.69
657883	0	\$0.00	1	1.49%	\$434.92	\$434.92
657886	2	\$106.06	6	8.96%	\$2,609.53	\$2,715.59
658271	1	\$53.03	7	10.45%	\$3,044.45	\$3,097.48
658282	2	\$106.06	5	7.46%	\$2,174.61	\$2,280.67
674838	1	\$53.03	2	2.99%	\$869.84	\$922.87
674840	0	\$0.00	4	5.97%	\$1,739.69	\$1,739.69
674842	0	\$0.00	1	1.49%	\$434.92	\$434.92
674846	0	\$0.00	1	1.49%	\$434.92	\$434.92
674848	0	\$0.00	1	1.49%	\$434.92	\$434.92
674849	1	\$53.03	2	2.99%	\$869.84	\$922.87
674850	2	\$106.06	5	7.46%	\$2,174.61	\$2,280.67
674852	0	\$0.00	1	1.49%	\$434.92	\$434.92
674856	0	\$0.00	2	2.99%	\$869.84	\$869.84
674861	0	\$0.00	1	1.49%	\$434.92	\$434.92
674865	0	\$0.00	3	4.48%	\$1,304.76	\$1,304.76
674893	0	\$0.00	1	1.49%	\$434.92	\$434.92
674910	0	\$0.00	1	1.49%	\$434.92	\$434.92
674927	0	\$0.00	2	2.99%	\$869.84	\$869.84
674930	0	\$0.00	2	2.99%	\$869.84	\$869.84
	<b>10</b>	<b>\$530.30</b>	<b>67</b>	<b>100.00%</b>	<b>\$29,139.73</b>	<b>\$29,670.03</b>

## 7.0 References

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Jackson, J.E. 2003. Lake Sediment and Water Geochemical Data from the Dayohessarah Lake Area, Northeastern Ontario; Ontario Geological Survey, Miscellaneous Release 116.

## 8.0 Statements of Qualifications

I, Steven D. Flank, of the City of Thunder Bay, in the Province of Ontario, do hereby certify that:

1. I am the President and Principal Geoscientist of Bayside Geoscience Inc., a geological consulting company based in Thunder Bay, Ontario.
2. I am a member in good standing with the Association of Professional Geoscientists of Ontario (#2695), residing at 124 Sherwood Drive, Thunder Bay, Ontario, P7B 6L1.
3. I attained an H.BSc. in Geology from Lakehead University in Thunder Bay, Ontario (2011) and an M.Sc. in Mineral Exploration from Laurentian University in Sudbury, Ontario (2017).
4. I have worked as an exploration geologist for 12 years focusing on project generation and early-stage gold projects including shear zone hosted lode gold and intrusion related disseminated gold deposits and intrusion related Ni-Cu-PGE deposits.
5. I personally supervised work at the 2022 Prospecting Program at the Tocheri Property as described in this report.

Dated

April 23, 2023

Thunder Bay, Ontario, Canada



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Steven D. Flank, M.Sc., P.Geo.

## Appendix A: Daily Logs

Date	Main Objective	Log
05-Aug-2022	N/A	Pack up from Dog Lake in Missanabie and mobilize to White River. Check access roads into the site.
06-Aug-2022	Investigate Olivier Occurrence for Cu, Zn, and Pb	Sam and I used the tracks set out by Steve and drove the truck and trailer roughly 13km from the Northern section of the target. We pulled out the UTV and drove the remainder of the distance to the perimeter of the target.
07-Aug-2022	Prospect previous Cu, Ni hits and mag anomalies	Sam and I drove up further along the track with the truck, parked, and took the UTV to the perimeter of the target.
08-Aug-2022	Investigate mag anomalies in Southwestern corner of target	Sam and I had a delayed start due to the nature of the weather. We packed up the truck this morning and headed out when the rain lightened up shortly after 9am. Once we reached the target, we traversed SW towards the mag anomaly in the SW corner of the target. We didn't quite make it to the anomaly as we ran out of time but did manage to collect data along the way.
09-Aug-2022	Prospect around Olivier Occurrence	Sam and I spent the day prospecting near and around the Olivier Occurrence.
10-Aug-2022	Investigate Ni, Cu PGE hits	Sam and I drove on road 400 until the turn off into the target. We took the UTV to the perimeter of the target and began the traverse on foot.
11-Aug-2022	Prospect for Ni, Cu, PGE	Sam and I started in the traverse in the same area as yesterday but migrated towards the topographic high in the Northwest corner of the target. We then did a large loop around the lakes and exited the target in the SW corner.
12-Aug-2022	Prospect negative mag anomalies	Sam and I started on the NE side of the target. We traversed NW and then did a loop around the perimeter eventually travelling along the East border South down to the lake. We went westwards of the lake to the southern part of the target and then headed East and back up to the UTV.
13-Aug-2022	Investigate negative mag anomalies	Sam and I drove the UTV to the top of the middle target. We then began a traverse to the small target directly North of the end of the trail. We prospected the entirety of the area and found no evidence of any outcrop or boulders. Area was extremely swampy.

Appendix B: Assay Certificates



Report No.: A22-12113
Report Date: 02-Nov-22
Date Submitted: 24-Aug-22
Your Reference: Tocheri

Bayside Geoscience
124 Sherwood Dr.
Thunder Bay ON P7B 6L1
Canada

ATTN: Steve Flank

CERTIFICATE OF ANALYSIS

10 Rock samples were submitted for analysis.

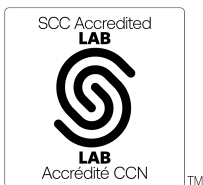
Table with 3 columns: Analytical package, Description, and Testing Date. Rows include 1C-Exp, 4B1, and UT-1M.

REPORT A22-12113

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Notes:

- If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.
Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.
We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.



LabID: 266

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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CERTIFIED BY:

Handwritten signature of Mark Vandergeest

Mark Vandergeest
Quality Control Coordinator



Report No.: A22-12113  
Report Date: 02-Nov-22  
Date Submitted: 24-Aug-22  
Your Reference: Tocheri

Bayside Geoscience  
124 Sherwood Dr.  
Thunder Bay ON P7B 6L1  
Canada

ATTN: Steve Flank

CERTIFICATE OF ANALYSIS

10 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Tbay	GOP AA-Au (Au - Fire Assay AA)	2022-09-11 14:07:17

REPORT A22-12113

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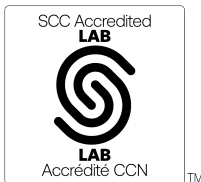
Notes:

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

The Au from AR-MS is for information purposes, for accurate Au fire assay 1A2 should be requested.

Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.



LabID: 673

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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Mark Vandergeest  
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-12113

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	1	1	2	0.1	0.01	0.5	0.5	20	1	0.1	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
1101629	< 5				< 0.1	0.90	< 0.5	1.4	< 20	74	< 0.1	0.90	< 0.1	9.1	164	15.9	2.10	5	0.03	0.38	< 1	1.06	433
1101634	< 5				< 0.1	1.71	0.7	2.5	< 20	376	< 0.1	0.76	< 0.1	15.2	41	36.7	3.35	4	0.03	0.89	2	1.18	432
1101635	< 5				0.2	1.82	< 0.5	4.5	< 20	33	0.2	2.30	0.1	24.1	41	199	5.02	8	0.03	0.54	4	1.22	738
1101636		3	5	4																			
1101637	< 5				< 0.1	0.51	0.7	3.0	< 20	43	< 0.1	0.22	< 0.1	2.2	5	21.9	1.14	3	0.03	0.19	7	0.22	129
1101638	< 5				< 0.1	0.49	< 0.5	0.6	< 20	8	0.4	4.39	< 0.1	15.4	5	54.5	4.05	5	0.07	0.04	127	0.56	352
1101639		3	5	5																			
1101642		< 1	< 1	4																			
1101643	< 5				< 0.1	2.23	0.7	< 0.5	< 20	24	0.2	1.65	< 0.1	29.9	52	60.2	5.43	10	0.06	0.11	3	1.58	874
1101644	< 5				< 0.1	2.39	< 0.5	2.6	< 20	49	< 0.1	2.61	0.1	24.9	11	52.5	6.44	12	0.05	0.24	10	0.94	1040

Results

Activation Laboratories Ltd.

Report: A22-12113

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1101629	3.7	0.118	57.5	0.006	2.5	< 1	< 0.1	5.1	< 0.5	27	< 0.2	0.8	0.118	0.2	25	0.2	52						
1101634	0.6	0.154	28.3	0.019	2.5	< 1	< 0.1	8.5	< 0.5	25	< 0.2	0.9	0.284	0.5	83	2.1	44						
1101635	0.7	0.188	35.5	0.044	2.0	< 1	< 0.1	16.5	0.8	19	< 0.2	1.1	0.372	0.4	156	0.2	65						
1101636																		< 0.3	6.82	4	152	< 1	< 2
1101637	0.3	0.111	0.9	0.029	0.9	< 1	< 0.1	0.9	< 0.5	28	< 0.2	0.7	0.107	< 0.1	13	0.2	28						
1101638	0.4	0.091	4.2	1.41	3.3	< 1	< 0.1	4.9	< 0.5	166	< 0.2	3.3	0.008	< 0.1	91	0.2	32						
1101639																		< 0.3	6.89	< 3	153	< 1	< 2
1101642																		< 0.3	7.25	< 3	130	< 1	< 2
1101643	0.8	0.106	41.5	0.045	1.5	< 1	< 0.1	15.2	0.7	81	< 0.2	0.7	0.238	< 0.1	150	0.2	58						
1101644	1.1	0.208	5.5	0.098	5.1	< 1	< 0.1	20.0	< 0.5	22	< 0.2	1.1	0.320	< 0.1	83	0.2	108						

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1101629																							
1101634																							
1101635																							
1101636	6.36	0.4	47	59	175	10.7	20	0.58	3.39	21	1650	< 1	1.72	63	0.051	6	< 5	0.08	38	158	< 2	0.26	< 5
1101637																							
1101638																							
1101639	6.44	0.5	47	65	145	10.7	19	0.56	3.40	21	1670	< 1	1.75	65	0.055	6	< 5	0.09	37	172	4	0.36	< 5
1101642	6.77	< 0.3	43	73	118	9.11	20	0.75	2.21	14	1610	< 1	1.84	60	0.049	3	< 5	0.22	38	188	< 2	0.16	< 5
1101643																							
1101644																							

**Results****Activation Laboratories Ltd.****Report: A22-12113**

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1101629						
1101634						
1101635						
1101636	< 10	218	< 5	32	121	91
1101637						
1101638						
1101639	< 10	184	< 5	31	120	69
1101642	< 10	135	< 5	29	108	12
1101643						
1101644						

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	1	1	2	0.1	0.01	0.5	0.5	20	1	0.1	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																							
OREAS 98 (4 Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 904 (4 Acid) Meas																							
OREAS 904 (4 Acid) Cert																							
OREAS 45d (4-Acid) Meas																							

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	1	1	2	0.1	0.01	0.5	0.5	20	1	0.1	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 922 (AQUA REGIA) Meas					0.8	2.66	6.5			35	11.1	0.38	0.3	18.6	45	2170	5.13	7		0.40	38	1.31	784
OREAS 922 (AQUA REGIA) Cert					0.851	2.72	6.12			70	10.3	0.324	0.28	19.4	40.7	2176	5.05	7.62		0.376	32.5	1.33	730
OREAS 922 (AQUA REGIA) Meas					0.9	2.74	6.3			42	10.3	0.40	0.3	19.9	49	2130	5.11	8		0.39	39	1.30	816
OREAS 922 (AQUA REGIA) Cert					0.851	2.72	6.12			70	10.3	0.324	0.28	19.4	40.7	2176	5.05	7.62		0.376	32.5	1.33	730
OREAS 907 (Aqua Regia) Meas					1.3	1.12	36.3	97.6		231	22.4	0.26	0.5	41.1	9	6330	8.18	15		0.30	36	0.21	325
OREAS 907 (Aqua Regia) Cert					1.30	0.945	37.0	101		225	22.3	0.280	0.540	43.7	8.59	6370	8.18	14.7		0.286	36.1	0.221	330
OREAS 907 (Aqua Regia) Meas					1.2	1.14	36.0	90.2		230	23.0	0.26	0.4	44.7	9	6680	8.32	16		0.34	36	0.22	344
OREAS 907 (Aqua Regia) Cert					1.30	0.945	37.0	101		225	22.3	0.280	0.540	43.7	8.59	6370	8.18	14.7		0.286	36.1	0.221	330
OREAS 907 (Aqua Regia) Meas					1.4	1.21	38.8	104		258	22.6	0.28	0.7	47.3	9	6630	8.51	16		0.35	40	0.23	345
OREAS 907 (Aqua Regia) Cert					1.30	0.945	37.0	101		225	22.3	0.280	0.540	43.7	8.59	6370	8.18	14.7		0.286	36.1	0.221	330
CDN-PGMS-27 Meas		1920	1200	4590																			
CDN-PGMS-27 Cert		2000	1290.00	4800																			
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
OREAS 96 (4 Acid) Meas																							
OREAS 96 (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							

Analyte Symbol	Au	Pd	Pt	Au	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
Unit Symbol	ppb	ppb	ppb	ppb	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
Lower Limit	5	1	1	2	0.1	0.01	0.5	0.5	20	1	0.1	0.01	0.1	0.1	1	0.2	0.01	1	0.01	0.01	1	0.01	1
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
Oreas 77b (4 Acid) Cert																							
Oreas 77b (4 Acid) Meas																							
Oreas 77b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
Oreas 72b (4 Acid) Meas																							
Oreas 72b (4 Acid) Cert																							
OREAS 238 (Fire Assay) Meas	3070																						
OREAS 238 (Fire Assay) Cert	3030																						
OREAS 263 (Aqua Regia) Meas					0.3	1.84	29.6			119	0.6	0.99	0.2	30.8	54	92.4	3.64	5	0.24	0.36		0.60	498
OREAS 263 (Aqua Regia) Cert					0.285	1.29	30.8			175	0.570	1.03	0.270	31.0	48.0	87.0	3.68	4.92	0.170	0.288		0.593	490
OREAS 263 (Aqua Regia) Meas					0.3	1.90	30.4			147	0.6	1.02	0.3	33.0	57	90.9	3.82	5	0.18	0.36		0.58	507
OREAS 263 (Aqua Regia) Cert					0.285	1.29	30.8			175	0.570	1.03	0.270	31.0	48.0	87.0	3.68	4.92	0.170	0.288		0.593	490
OREAS 130 (Aqua Regia) Meas					6.5	1.22	215				3.3	1.78	30.8	27.1	24	250	7.44	5	0.67	0.56	24	0.95	1730
OREAS 130 (Aqua Regia) Cert					6.27	1.10	205				3.05	1.81	28.8	27.1	23.2	226	7.27	4.78	0.670	0.500	26.4	0.892	1630
Oreas E1336 (Fire Assay) Meas	493																						
Oreas E1336 (Fire Assay) Cert	510.000																						
OREAS 681 (4 Acid) Meas																							
OREAS 681 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
OREAS 147 (4 Acid) Meas																							
OREAS 147 (4 Acid) Cert																							
Oreas 521 (4 Acid) Meas																							
Oreas 521 (4 Acid) Cert																							
OREAS 521 (Aqua Regia)					0.9	1.42	369	456			6.4	3.77		376	35	6370	21.3	12		0.47	113	1.14	3160







Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 101b (4 Acid) Meas																							
OREAS 101b (4 Acid) Cert																							
OREAS 98 (4 Acid) Meas																		40.5					68
OREAS 98 (4 Acid) Cert																		45.1					97.2
OREAS 98 (4 Acid) Meas																		40.5					68
OREAS 98 (4 Acid) Cert																		45.1					97.2
OREAS 98 (4 Acid) Meas																		42.3					25
OREAS 98 (4 Acid) Cert																		45.1					97.2
OREAS 13b (4-Acid) Meas																		0.7		47			
OREAS 13b (4-Acid) Cert																		0.86		57			
OREAS 13b (4-Acid) Meas																		0.7		47			
OREAS 13b (4-Acid) Cert																		0.86		57			
OREAS 13b (4-Acid) Meas																		0.9		36			
OREAS 13b (4-Acid) Cert																		0.86		57			
OREAS 904 (4 Acid) Meas																		0.5	6.39	93	202	9	7
OREAS 904 (4 Acid) Cert																		0.551	6.30	98.0	194	7.86	4.05
OREAS 904 (4 Acid) Meas																		0.3	6.36	95	204	9	6
OREAS 904 (4 Acid) Cert																		0.551	6.30	98.0	194	7.86	4.05
OREAS 904 (4 Acid) Meas																		0.5	6.39	93	202	9	7
OREAS 904 (4 Acid) Cert																		0.551	6.30	98.0	194	7.86	4.05
OREAS 904 (4 Acid) Meas																		0.9	6.71	101	209	9	2
OREAS 904 (4 Acid) Cert																		0.551	6.30	98.0	194	7.86	4.05
OREAS 45d (4-Acid) Meas																			7.86	< 3	185	< 1	2

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi	
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
OREAS 45d (4-Acid) Cert																			8.150	13.8	183.0	0.79	0.31	
OREAS 45d (4-Acid) Meas																			7.13	7	185	< 1	< 2	
OREAS 45d (4-Acid) Cert																			8.150	13.8	183.0	0.79	0.31	
OREAS 45d (4-Acid) Meas																			7.86	< 3	185	< 1	2	
OREAS 45d (4-Acid) Cert																			8.150	13.8	183.0	0.79	0.31	
OREAS 45d (4-Acid) Meas																			8.37	< 3	188	< 1	< 2	
OREAS 45d (4-Acid) Cert																			8.150	13.8	183.0	0.79	0.31	
OREAS 922 (AQUA REGIA) Meas	0.7	0.024	35.0	0.065	60.8	< 1	0.2	3.4	3.2	16		16.4		0.1	29	0.7	255							
OREAS 922 (AQUA REGIA) Cert	0.69	0.021	34.3	0.063	60	0.386	0.57	3.15	3.44	15.0		14.5		0.14	29.4	1.12	256							
OREAS 922 (AQUA REGIA) Meas	0.7	0.023	36.8	0.071	61.1	< 1	0.3	4.0	3.4	17		15.9		0.1	31	1.0	248							
OREAS 922 (AQUA REGIA) Cert	0.69	0.021	34.3	0.063	60	0.386	0.57	3.15	3.44	15.0		14.5		0.14	29.4	1.12	256							
OREAS 907 (Aqua Regia) Meas	5.5	0.074	5.1	0.021	33.8	< 1	0.5	2.0	9.0	12	< 0.2	7.9	0.021	0.1	5	0.2	140							
OREAS 907 (Aqua Regia) Cert	5.64	0.0860	4.74	0.0240	34.1	0.0660	2.28	2.16	9.05	11.7	0.230	8.04	0.0170	0.120	5.12	0.980	139							
OREAS 907 (Aqua Regia) Meas	5.3	0.081	5.0	0.022	34.0	< 1	0.6	2.2	8.3	12	< 0.2	8.3	0.023	0.1	5	0.3	149							
OREAS 907 (Aqua Regia) Cert	5.64	0.0860	4.74	0.0240	34.1	0.0660	2.28	2.16	9.05	11.7	0.230	8.04	0.0170	0.120	5.12	0.980	139							
OREAS 907 (Aqua Regia) Meas	5.5	0.087	4.9	0.021	36.0	< 1	1.1	2.4	9.8	14	0.2	8.8	0.026	0.2	5	0.5	142							
OREAS 907 (Aqua Regia) Cert	5.64	0.0860	4.74	0.0240	34.1	0.0660	2.28	2.16	9.05	11.7	0.230	8.04	0.0170	0.120	5.12	0.980	139							
CDN-PGMS-27 Meas																								
CDN-PGMS-27 Cert																								
OREAS 96 (4 Acid) Meas																			11.6				21	
OREAS 96 (4 Acid) Cert																			11.5				26.3	
OREAS 96 (4 Acid) Meas																			11.3				9	
OREAS 96 (4 Acid) Cert																			11.5				26.3	
Oreas 77b (4 Acid) Meas																			1.4	1.68	1560	37	< 1	10
Oreas 77b (4 Acid) Cert																			1.62	1.94	2050	118	0.470	3.44
Oreas 77b (4 Acid) Meas																			1.4	1.68	1560	37	< 1	10

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 77b (4 Acid) Cert																		1.62	1.94	2050	118	0.470	3.44
Oreas 77b (4 Acid) Meas																		1.5	1.78	1530	47	< 1	< 2
Oreas 77b (4 Acid) Cert																		1.62	1.94	2050	118	0.470	3.44
Oreas 72b (4 Acid) Meas																		< 0.3	4.61	136	314	< 1	< 2
Oreas 72b (4 Acid) Cert																		0.230	4.79	146	330	1.02	0.680
Oreas 72b (4 Acid) Meas																		< 0.3	4.61	136	314	< 1	< 2
Oreas 72b (4 Acid) Cert																		0.230	4.79	146	330	1.02	0.680
Oreas 72b (4 Acid) Meas																		0.4	4.81	134	330	< 1	< 2
Oreas 72b (4 Acid) Cert																		0.230	4.79	146	330	1.02	0.680
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 263 (Aqua Regia) Meas	0.4	0.082	71.1	0.043	36.3	< 1	1.3	3.5		18	< 0.2	11.0		0.6	25		130						
OREAS 263 (Aqua Regia) Cert	0.570	0.0790	72.0	0.0410	34.0	0.126	7.37	3.52		16.9	0.210	10.6		0.530	22.8		127						
OREAS 263 (Aqua Regia) Meas	0.4	0.078	75.3	0.042	35.6	< 1	2.4	3.9		19	< 0.2	11.0		0.6	25		132						
OREAS 263 (Aqua Regia) Cert	0.570	0.0790	72.0	0.0410	34.0	0.126	7.37	3.52		16.9	0.210	10.6		0.530	22.8		127						
OREAS 130 (Aqua Regia) Meas	4.9		35.2	0.094	1290	6	4.1	3.5		21	0.4	10.5	0.035	4.9	36	0.7	> 5000						
OREAS 130 (Aqua Regia) Cert	8.25		35.2	0.0860	1300	6.02	4.69	3.42		23.2	0.170	10.3	0.0270	5.92	33.1	1.40	16900						
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas																		< 0.3	8.17		420	1	< 2
OREAS 681 (4 Acid) Cert																		0.118	7.91		442	1.41	0.0980
OREAS 147 (4 Acid) Meas																			5.37	18	> 1000	35	9
OREAS 147 (4 Acid) Cert																			4.90	36.0	1940	31.2	12.5
OREAS 147 (4 Acid) Meas																			5.21	13	> 1000	34	8
OREAS 147 (4 Acid) Cert																			4.90	36.0	1940	31.2	12.5
Oreas 521 (4 Acid) Meas																		1.2	4.79	310		< 1	4
Oreas 521 (4 Acid) Cert																		0.89	4.77	336		0.9	6
OREAS 521 (Aqua Regia)	170	0.046	73.8	0.093	7.5	2	1.9	10.0	2.8	33	0.6	6.1	0.137	0.1	204	78.0	24						

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
OREAS 521 (Aqua Regia) Cert	133	0.045	68.0	0.081	9.0	2	3.6	10.0	2.4	54	0.7	7.8	0.141	0.1	200	71.0	24						
OREAS 521 (Aqua Regia) Meas	154	0.049	70.2	0.086	7.6	2	2.0	9.5	2.1	32	0.6	5.9	0.151	0.1	200	74.8	26						
OREAS 521 (Aqua Regia) Cert	133	0.045	68.0	0.081	9.0	2	3.6	10	2.4	54	0.7	7.8	0.141	0.1	200	71.0	24						
OREAS 70b (4 Acid) Meas																		< 0.3	3.03	55	206	< 1	< 2
OREAS 70b (4 Acid) Cert																		0.2	3.87	150	202	1	0.8
OREAS 70b (4 Acid) Meas																		< 0.3	3.81	124	196	< 1	< 2
OREAS 70b (4 Acid) Cert																		0.2	3.87	148	202	1	0.8
Oreas 620 (Aqua Regia) Meas	8.6	0.125	12.7	0.028	> 5000	2	29.8			18	7.5			0.6	7	0.5	> 5000						
Oreas 620 (Aqua Regia) Cert	9.0	0.117	14.4	0.031	7740	2	62.0			20	7.5			0.5	7	0.8	31200						
OREAS 620 (4 Acid) Meas																		39.8	6.75	53	81	3	< 2
OREAS 620 (4 Acid) Cert																		38.5	6.72	50	2500	2	2
OREAS 620 (4 Acid) Meas																		39.2	6.73	46	72	2	< 2
OREAS 620 (4 Acid) Cert																		38.5	6.72	50	2500	2	2
OREAS 620 (4 Acid) Meas																		39.0	6.76	45	61	2	< 2
OREAS 620 (4 Acid) Cert																		38.5	6.72	50	2500	2	2
OREAS 620 (4 Acid) Meas																		39.8	6.75	53	81	3	< 2
OREAS 620 (4 Acid) Cert																		38.5	6.72	50	2500	2	2
OREAS 620 (4 Acid) Meas																		41.0	6.93	43	69	2	< 2
OREAS 620 (4 Acid) Cert																		38.5	6.72	50	2500	2	2
OREAS 753 (4 Acid) Meas																			8.59	< 3	21	123	< 2
OREAS 753 (4 Acid) Cert																			8.22	5	18	118	2
OREAS 753 (4 Acid) Meas																			8.59	< 3	21	123	< 2
OREAS 753 (4 Acid) Cert																			8.22	5	18	118	2
OREAS 753 (4 Acid) Meas																			8.82	< 3	19	118	3
OREAS 753 (4 Acid) Cert																			8.22	5	18	118	2
1101629 Orig																							
1101629 Dup																							
1101642 Orig																							
1101642 Dup																							
Method Blank	< 0.1	0.006	< 0.1	< 0.001	< 0.1	< 1	< 0.1	< 0.1	< 0.5	< 1	< 0.2	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1						
Method Blank	< 0.1	0.007	0.1	< 0.001	< 0.1	< 1	< 0.1	< 0.1	< 0.5	< 1	< 0.2	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1						

Analyte Symbol	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn	Ag	Al	As	Ba	Be	Bi
Unit Symbol	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1	0.3	0.01	3	7	1	2
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.1	0.007	< 0.1	0.002	0.1	< 1	< 0.1	< 0.1	< 0.5	< 1	< 0.2	< 0.1	< 0.001	< 0.1	< 2	< 0.1	< 1						
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2
Method Blank																		< 0.3	< 0.01	< 3	< 7	< 1	< 2

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 101b (4 Acid) Meas			47		408	10.0		1.81	1.25		945	21		10	0.112	20						0.37	
OREAS 101b (4 Acid) Cert			45		412	10.7		2.36	1.23		927	20.1		8.2		23						0.35	
OREAS 101b (4 Acid) Meas			46		393	9.50		2.29	1.21		943	19		9	0.114	24						0.32	
OREAS 101b (4 Acid) Cert			45		412	10.7		2.36	1.23		927	20.1		8.2		23						0.35	
OREAS 101b (4 Acid) Meas			47		408	10.0		1.81	1.25		945	21		10	0.112	20						0.37	
OREAS 101b (4 Acid) Cert			45		412	10.7		2.36	1.23		927	20.1		8.2		23						0.35	
OREAS 101b (4 Acid) Meas			45		406	10.4		2.36	1.26		969	18		9	0.122	19						0.39	
OREAS 101b (4 Acid) Cert			45		412	10.7		2.36	1.23		927	20.1		8.2		23						0.35	
OREAS 98 (4 Acid) Meas			119		> 10000											294	10	15.1					
OREAS 98 (4 Acid) Cert			121		14800 0.0											345	20.1	15.5					
OREAS 98 (4 Acid) Meas			119		> 10000											294	10	15.1					
OREAS 98 (4 Acid) Cert			121		14800 0.0											345	20.1	15.5					
OREAS 98 (4 Acid) Meas			118		> 10000											277	5	14.9					
OREAS 98 (4 Acid) Cert			121		14800 0.0											345	20.1	15.5					
OREAS 13b (4-Acid) Meas			73	8880	2330							10		2220								1.12	
OREAS 13b (4-Acid) Cert			75	8650.0 00	2327.0 000							9.0		2247.0 000								1.2	
OREAS 13b (4-Acid) Meas			73	8880	2330							10		2220								1.12	
OREAS 13b (4-Acid) Cert			75	8650.0 00	2327.0 000							9.0		2247.0 000								1.2	
OREAS 13b (4-Acid) Meas			70	9480	2290							7		2100								1.11	
OREAS 13b (4-Acid) Cert			75	8650.0 00	2327.0 000							9		2247.0 000								1.2	
OREAS 904 (4 Acid) Meas	0.05		91	52	5970	6.91	16	3.11	0.59	16	450	2	0.04	44	0.096	11	< 5	0.06	11	32			< 5
OREAS 904 (4 Acid) Cert	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520
OREAS 904 (4 Acid) Meas	0.05		92	53	5860	6.79	16	3.28	0.58	15	440	2	0.04	45	0.096	10	< 5	0.06	11	31			< 5
OREAS 904 (4 Acid) Cert	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520
OREAS 904 (4 Acid) Meas	0.05		91	52	5970	6.91	16	3.11	0.59	16	450	2	0.04	44	0.096	11	< 5	0.06	11	32			< 5
OREAS 904 (4 Acid) Cert	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520
OREAS 904 (4 Acid) Meas	0.05		94	62	5990	7.11	16	3.47	0.61	16	471	< 1	0.04	46	0.113	7	< 5	0.06	12	32			< 5
OREAS 904 (4 Acid) Cert	0.0460		83.0	54.0	6120	6.68	16.7	3.31	0.556	16.7	410	2.12	0.0340	40.1	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520
OREAS 45d (4-Acid) Meas	0.19		31	474	370	14.4	22	0.41	0.25	21	513	< 1	0.10	243	0.035	22	< 5	0.04	48	35		0.19	< 5



Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 45d (4-Acid) Cert	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27
OREAS 45d (4-Acid) Meas	0.19		32	552	365	14.5	22	0.41	0.24	22	529	< 1	0.10	241	0.033	23	< 5	0.04	38	35		0.35	< 5
OREAS 45d (4-Acid) Cert	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27
OREAS 45d (4-Acid) Meas	0.19		31	474	370	14.4	22	0.41	0.25	21	513	< 1	0.10	243	0.035	22	< 5	0.04	48	35		0.19	< 5
OREAS 45d (4-Acid) Cert	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27
OREAS 45d (4-Acid) Meas	0.20		30	528	372	14.7	21	0.41	0.25	22	513	< 1	0.10	240	0.035	18	< 5	0.04	52	37		0.34	< 5
OREAS 45d (4-Acid) Cert	0.185		29.50	549	371	14.5	21.20	0.412	0.245	21.5	490.000	2.500	0.101	231.0	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 922 (AQUA REGIA) Meas																							
OREAS 922 (AQUA REGIA) Cert																							
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
OREAS 907 (Aqua Regia) Meas																							
OREAS 907 (Aqua Regia) Cert																							
CDN-PGMS-27 Meas																							
CDN-PGMS-27 Cert																							
OREAS 96 (4 Acid) Meas			49		> 10000											86	< 5	4.05					
OREAS 96 (4 Acid) Cert			49.9		39300											101	5.09	4.19					
OREAS 96 (4 Acid) Meas			48		> 10000											84	< 5	4.00					
OREAS 96 (4 Acid) Cert			49.9		39300											101	5.09	4.19					
Oreas 77b (4 Acid) Meas	2.65	1.0	1340	252	3040	27.7	11	0.32	2.46	17	614		0.38	> 10000		61	39		< 4	33	4	0.06	< 5
Oreas 77b (4 Acid) Cert	3.06	1.20	1550	280	3430	29.9	4.61	0.361	2.59	18.8	640		0.434	113000		61.0	9.100		3.51	34.4	1.35	0.0640	1.37
Oreas 77b (4 Acid) Meas	2.65	1.0	1340	252	3040	27.7	11	0.32	2.46	17	614		0.38	> 10000		61	39		< 4	33	4	0.06	< 5

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 77b (4 Acid) Cert	3.06	1.20	1550	280	3430	29.9	4.61	0.361	2.59	18.8	640		0.434	113000		61.0	9.100		3.51	34.4	1.35	0.0640	1.37
Oreas 77b (4 Acid) Meas	2.67	2.6	1380	262	3200	26.9	4	0.31	2.45	17	612		0.39	> 10000		50	20		< 4	33	12	0.06	5
Oreas 77b (4 Acid) Cert	3.06	1.20	1550	280	3430	29.9	4.61	0.361	2.59	18.8	640		0.434	113000		61.0	9.100		3.51	34.4	1.35	0.0640	1.37
Oreas 72b (4 Acid) Meas	2.76	0.4	126	543	208	6.83	9	1.12	9.34	31	1000	4	0.97	6630	0.027	14	< 5	1.37	11	64	6	0.21	< 5
Oreas 72b (4 Acid) Cert	2.79	0.310	131	771	222	6.84	11.7	1.14	9.59	33.3	1010	4.01	1.01	6860	0.0260	14.9	0.870	1.49	12.8	63.8	0.0920	0.216	0.350
Oreas 72b (4 Acid) Meas	2.76	0.4	126	543	208	6.83	9	1.12	9.34	31	1000	4	0.97	6630	0.027	14	< 5	1.37	11	64	6	0.21	< 5
Oreas 72b (4 Acid) Cert	2.79	0.310	131	771	222	6.84	11.7	1.14	9.59	33.3	1010	4.01	1.01	6860	0.0260	14.9	0.870	1.49	12.8	63.8	0.0920	0.216	0.350
Oreas 72b (4 Acid) Meas	2.75	0.3	128	608	216	7.18	10	1.09	9.49	32	1010	2	0.99	6490	0.029	9	< 5	1.39	12	66	3	0.22	< 5
Oreas 72b (4 Acid) Cert	2.79	0.310	131	771	222	6.84	11.7	1.14	9.59	33.3	1010	4.01	1.01	6860	0.0260	14.9	0.870	1.49	12.8	63.8	0.0920	0.216	0.350
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
OREAS 263 (Aqua Regia) Meas																							
OREAS 263 (Aqua Regia) Cert																							
OREAS 263 (Aqua Regia) Meas																							
OREAS 263 (Aqua Regia) Cert																							
OREAS 130 (Aqua Regia) Meas																							
OREAS 130 (Aqua Regia) Cert																							
Oreas E1336 (Fire Assay) Meas																							
Oreas E1336 (Fire Assay) Cert																							
OREAS 681 (4 Acid) Meas	5.82		47	1510	267	8.06	16	1.32	5.23	13	1270	< 1	1.60	469	0.140	5	< 5	0.10	27	482		0.52	
OREAS 681 (4 Acid) Cert	5.98		51.0	1640	264	7.47	17.6	1.35	5.19	13.0	1310	1.38	1.61	503	0.141	10.2	0.240	0.109	27.7	478		0.588	
OREAS 147 (4 Acid) Meas	1.24		7	77	301	3.40	23	1.65	0.58	2210	418	2	0.99	24	0.109	27	10	0.02	11	333		0.23	8
OREAS 147 (4 Acid) Cert	1.09		6.90	57.0	298	3.23	22.6	1.60	0.535	2260	390	7.99	0.948	21.2	0.155	27.8	10.6	0.0300	10.7	299		0.470	10.8
OREAS 147 (4 Acid) Meas	1.23		6	53	298	3.33	23	1.61	0.57	2160	414	2	0.97	24	0.112	26	13	0.02	10	328		0.24	7
OREAS 147 (4 Acid) Cert	1.09		6.90	57.0	298	3.23	22.6	1.60	0.535	2260	390	7.99	0.948	21.2	0.155	27.8	10.6	0.0300	10.7	299		0.470	10.8
Oreas 521 (4 Acid) Meas	3.79		365	31	5780	20.4	18	2.32	1.18	17	3080	140	0.97	74	0.088	5	< 5	1.63	14	88	14	0.44	< 5
Oreas 521 (4 Acid) Cert	3.86		386	31	6070	20.7	17	3.16	1.13	16	3210	138	0.98	73	0.081	9	6	1.80	14	160	0.76	0.39	0.3
OREAS 521 (Aqua Regia)																							

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
OREAS 521 (Aqua Regia) Cert																							
OREAS 521 (Aqua Regia) Meas																							
OREAS 521 (Aqua Regia) Cert																							
OREAS 70b (4 Acid) Meas	2.80	< 0.3	75		50	5.63	8	0.58	13.5	40	1180	3	0.64	2090	0.024	11	< 5	0.24	8	69		0.18	< 5
OREAS 70b (4 Acid) Cert	3.05	0.4	78		52	5.52	10	0.62	13.4	34	1150	3	0.77	2180	0.022	14	0.6	0.31	10	74		0.18	0.3
OREAS 70b (4 Acid) Meas	2.98	0.4	75		47	5.77	8	0.58	13.4	33	1160	2	0.75	2050	0.023	10	< 5	0.28	12	78		0.19	< 5
OREAS 70b (4 Acid) Cert	3.05	0.4	78		52	5.52	10	0.62	13.4	34	1150	3	0.77	2180	0.022	10	0.6	0.31	12	74		0.18	0.3
Oreas 620 (Aqua Regia) Meas																							
Oreas 620 (Aqua Regia) Cert																							
OREAS 620 (4 Acid) Meas	1.76	162	14	27	1730	3.07	24	2.02	0.36	20	482	10	2.00	16	0.037	> 5000	12	2.45	< 4	120		0.16	< 5
OREAS 620 (4 Acid) Cert	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94	15	0.035	7740	76	2.47	5	131		0.14	2
OREAS 620 (4 Acid) Meas	1.75	161	14	16	1680	3.06	23	2.42	0.36	19	444	10	1.94	17	0.037	> 5000	7	2.41	4	126		0.16	< 5
OREAS 620 (4 Acid) Cert	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9.5	1.94	15	0.035	7740	80	2.47	5	131		0.14	2
OREAS 620 (4 Acid) Meas	1.75	160	14	26	1700	3.03	23	2.14	0.35	19	436	10	1.94	16	0.037	> 5000	7	2.39	5	126		0.16	< 5
OREAS 620 (4 Acid) Cert	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94	15	0.035	7740	80	2.47	5	131		0.14	2
OREAS 620 (4 Acid) Meas	1.76	162	14	27	1730	3.07	24	2.02	0.36	20	482	10	2.00	16	0.037	> 5000	12	2.45	< 4	120		0.16	< 5
OREAS 620 (4 Acid) Cert	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94	15	0.035	7740	76	2.47	5	131		0.14	2
OREAS 620 (4 Acid) Meas	1.77	163	14	20	1730	3.08	23	2.27	0.36	20	426	8	1.86	17	0.038	> 5000	7	2.48	5	124		0.17	< 5
OREAS 620 (4 Acid) Cert	1.60	163	12	22	1730	2.94	24	2.63	0.34	20	440	9	1.94	15	0.035	7740	80	2.47	5	131		0.14	2
OREAS 753 (4 Acid) Meas	0.13	1.5	< 1	19	18	0.89	16	2.05	0.01	8940	839	5	2.14	13	0.118	5	< 5	0.02	< 4	32		< 0.01	< 5
OREAS 753 (4 Acid) Cert	0.11	1.5	1.0	21	18	0.84	16	1.93	0.01	9850	740	3	2.16	11	0.111	10	0.3	0.01	0.1	26		0.004	4
OREAS 753 (4 Acid) Meas	0.13	1.5	< 1	19	18	0.89	16	2.05	0.01	8940	839	5	2.14	13	0.118	5	< 5	0.02	< 4	32		< 0.01	< 5
OREAS 753 (4 Acid) Cert	0.11	1.5	1.0	21	18	0.84	16	1.93	0.01	9850	740	3	2.16	11	0.111	10	0.3	0.01	0.1	26		0.004	4
OREAS 753 (4 Acid) Meas	0.13	1.5	< 1	13	19	0.90	14	1.99	0.01	8650	787	3	2.04	14	0.120	7	< 5	0.01	< 4	31		< 0.01	< 5
OREAS 753 (4 Acid) Cert	0.11	1.5	1.0	21	18	0.84	16	1.93	0.01	9850	740	3	2.16	11	0.111	10	0.3	0.01	0.1	26		0.004	4
1101629 Orig																							
1101629 Dup																							
1101642 Orig																							
1101642 Dup																							
Method Blank																							
Method Blank																							

Analyte Symbol	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	%	ppm	ppm	ppm	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	0.3	1	1	1	0.01	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank	< 0.01	< 0.3	< 1	9	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	< 1	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	10	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	3	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	7	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	6	< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	9	< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1	4	< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.01	< 0.3	< 1	2	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank	< 0.01	< 0.3	< 1	5	< 1	< 0.01	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 101b (4 Acid) Meas	400	84		137		
OREAS 101b (4 Acid) Cert	387	77		133		
OREAS 101b (4 Acid) Meas	380	79		133		
OREAS 101b (4 Acid) Cert	387	77		133		
OREAS 101b (4 Acid) Meas	400	84		137		
OREAS 101b (4 Acid) Cert	387	77		133		
OREAS 101b (4 Acid) Meas	390	84		137		
OREAS 101b (4 Acid) Cert	387	77		133		
OREAS 98 (4 Acid) Meas					1300	
OREAS 98 (4 Acid) Cert					1360	
OREAS 98 (4 Acid) Meas					1300	
OREAS 98 (4 Acid) Cert					1360	
OREAS 98 (4 Acid) Meas					1330	
OREAS 98 (4 Acid) Cert					1360	
OREAS 13b (4-Acid) Meas					121	
OREAS 13b (4-Acid) Cert					133	
OREAS 13b (4-Acid) Meas					121	
OREAS 13b (4-Acid) Cert					133	
OREAS 13b (4-Acid) Meas					129	
OREAS 13b (4-Acid) Cert					133	
OREAS 904 (4 Acid) Meas	< 10	91	< 5	34	28	57
OREAS 904 (4 Acid) Cert	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 Acid) Meas	< 10	89	< 5	34	28	26
OREAS 904 (4 Acid) Cert	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 Acid) Meas	< 10	91	< 5	34	28	57
OREAS 904 (4 Acid) Cert	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 Acid) Meas	< 10	93	< 5	37	29	197
OREAS 904 (4 Acid) Cert	8.43	76.0	2.12	31.5	26.3	171
OREAS 45d (4-Acid) Meas	< 10	108	< 5	11	46	61

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 45d (4-Acid) Cert	2.63	235.0	1.62	9.53	45.7	141
OREAS 45d (4-Acid) Meas	< 10	178	< 5	11	45	115
OREAS 45d (4-Acid) Cert	2.63	235.0	1.62	9.53	45.7	141
OREAS 45d (4-Acid) Meas	< 10	108	< 5	11	46	61
OREAS 45d (4-Acid) Cert	2.63	235.0	1.62	9.53	45.7	141
OREAS 45d (4-Acid) Meas	< 10	140	< 5	12	49	80
OREAS 45d (4-Acid) Cert	2.63	235.0	1.62	9.53	45.7	141
OREAS 922 (AQUA REGIA) Meas						
OREAS 922 (AQUA REGIA) Cert						
OREAS 922 (AQUA REGIA) Meas						
OREAS 922 (AQUA REGIA) Cert						
OREAS 907 (Aqua Regia) Meas						
OREAS 907 (Aqua Regia) Cert						
OREAS 907 (Aqua Regia) Meas						
OREAS 907 (Aqua Regia) Cert						
OREAS 907 (Aqua Regia) Meas						
OREAS 907 (Aqua Regia) Cert						
CDN-PGMS-27 Meas						
CDN-PGMS-27 Cert						
OREAS 96 (4 Acid) Meas					461	
OREAS 96 (4 Acid) Cert					457	
OREAS 96 (4 Acid) Meas					452	
OREAS 96 (4 Acid) Cert					457	
Oreas 77b (4 Acid) Meas	< 10	40	5	7	182	44
Oreas 77b (4 Acid) Cert	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid) Meas	< 10	40	5	7	182	44

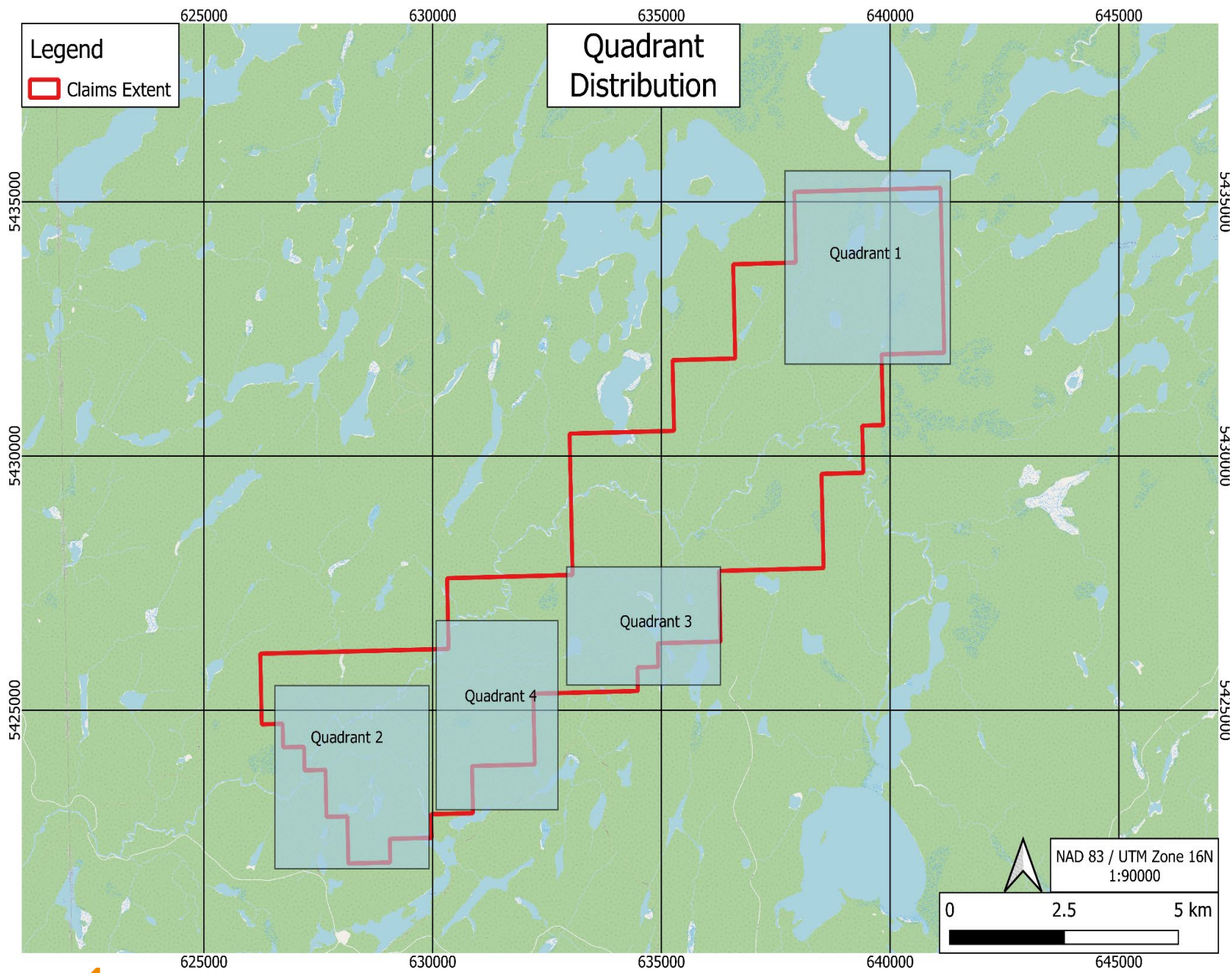
Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Oreas 77b (4 Acid) Cert	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid) Meas	10	37	5	8	178	42
Oreas 77b (4 Acid) Cert	1.71	33.6	3.07	6.55	205	37.9
Oreas 72b (4 Acid) Meas	< 10	77	< 5	12	95	81
Oreas 72b (4 Acid) Cert	4.68	73.6	4.00	12.8	99.0	88.0
Oreas 72b (4 Acid) Meas	< 10	77	< 5	12	95	81
Oreas 72b (4 Acid) Cert	4.68	73.6	4.00	12.8	99.0	88.0
Oreas 72b (4 Acid) Meas	10	77	6	13	94	85
Oreas 72b (4 Acid) Cert	4.68	73.6	4.00	12.8	99.0	88.0
OREAS 238 (Fire Assay) Meas						
OREAS 238 (Fire Assay) Cert						
OREAS 263 (Aqua Regia) Meas						
OREAS 263 (Aqua Regia) Cert						
OREAS 263 (Aqua Regia) Meas						
OREAS 263 (Aqua Regia) Cert						
OREAS 130 (Aqua Regia) Meas						
OREAS 130 (Aqua Regia) Cert						
Oreas E1336 (Fire Assay) Meas						
Oreas E1336 (Fire Assay) Cert						
OREAS 681 (4 Acid) Meas	< 10	243	< 5	17	81	64
OREAS 681 (4 Acid) Cert	1.44	253	1.09	17.5	88.0	58.0
OREAS 147 (4 Acid) Meas	< 10	47		29	152	45
OREAS 147 (4 Acid) Cert	15.8	60.0		26.3	138	105
OREAS 147 (4 Acid) Meas	< 10	48		28	148	51
OREAS 147 (4 Acid) Cert	15.8	60.0		26.3	138	105
Oreas 521 (4 Acid) Meas	40	221	89	19	25	132
Oreas 521 (4 Acid) Cert	30	209	92	20	24	123
OREAS 521 (Aqua Regia)						

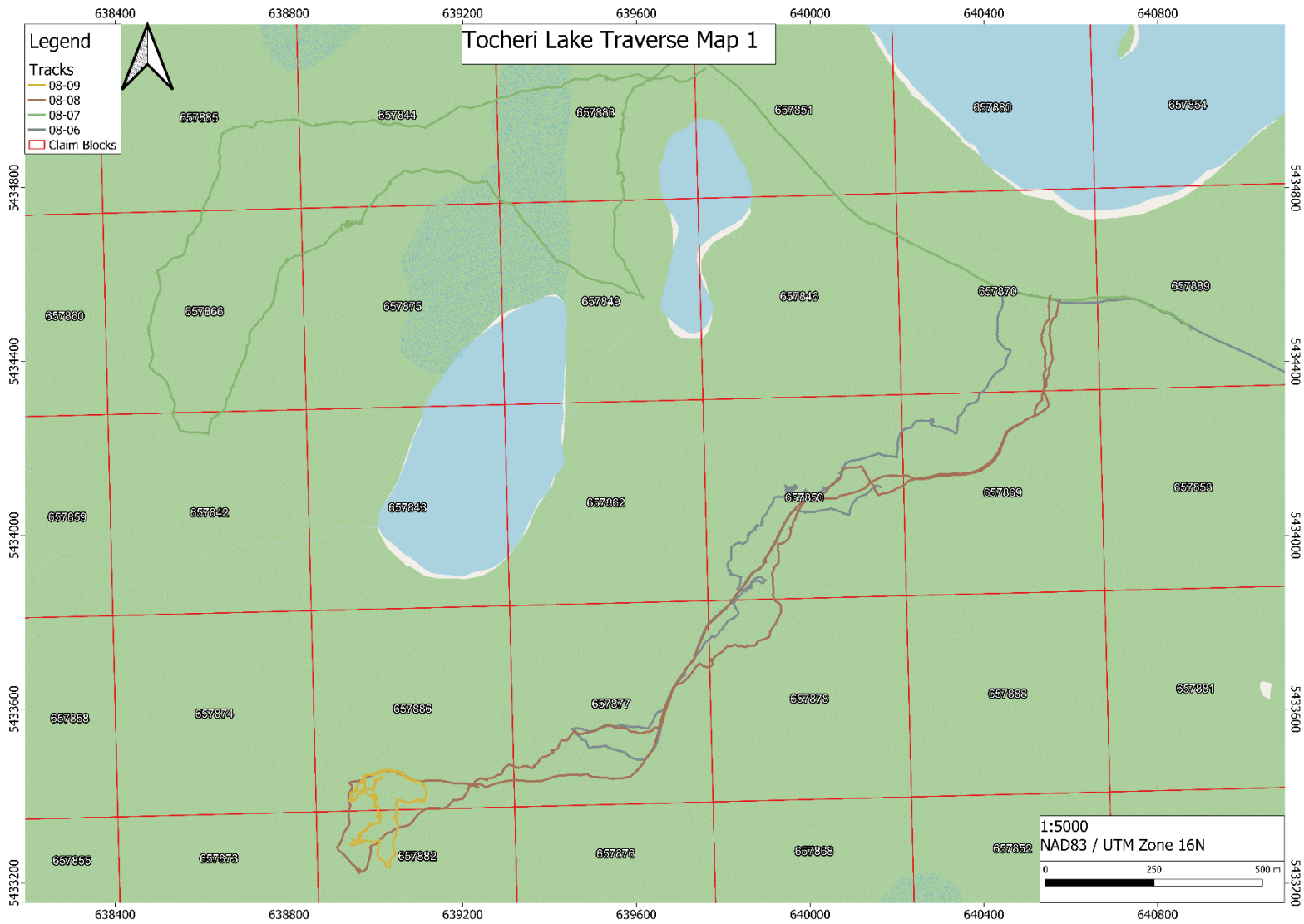
Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas						
OREAS 521 (Aqua Regia) Cert						
OREAS 521 (Aqua Regia) Meas						
OREAS 521 (Aqua Regia) Cert						
OREAS 70b (4 Acid) Meas	< 10	70	6	8	108	59
OREAS 70b (4 Acid) Cert	2	67	5	10	112	66
OREAS 70b (4 Acid) Meas	< 10	70	7	9	101	67
OREAS 70b (4 Acid) Cert	2	67	5	10	112	66
Oreas 620 (Aqua Regia) Meas						
Oreas 620 (Aqua Regia) Cert						
OREAS 620 (4 Acid) Meas	< 10	25	< 5	13	> 10000	208
OREAS 620 (4 Acid) Cert	4	21	2	12	31500	202
OREAS 620 (4 Acid) Meas	< 10	24	< 5	13	> 10000	204
OREAS 620 (4 Acid) Cert	4	21	2	12	31500	202
OREAS 620 (4 Acid) Meas	< 10	25	< 5	13	> 10000	205
OREAS 620 (4 Acid) Cert	4	21	2	12	31500	202
OREAS 620 (4 Acid) Meas	< 10	25	< 5	13	> 10000	208
OREAS 620 (4 Acid) Cert	4	21	2	12	31500	202
OREAS 620 (4 Acid) Meas	< 10	25	< 5	13	> 10000	206
OREAS 620 (4 Acid) Cert	4	21	2	12	31500	202
OREAS 753 (4 Acid) Meas	< 10	< 2	8	< 1	99	12
OREAS 753 (4 Acid) Cert	6	1	6	0.7	87	11
OREAS 753 (4 Acid) Meas	< 10	< 2	8	< 1	99	12
OREAS 753 (4 Acid) Cert	6	1	6	0.7	87	11
OREAS 753 (4 Acid) Meas	10	< 2	9	< 1	100	15
OREAS 753 (4 Acid) Cert	6	1	6	0.7	87.0	11
1101629 Orig						
1101629 Dup						
1101642 Orig						
1101642 Dup						
Method Blank						
Method Blank						



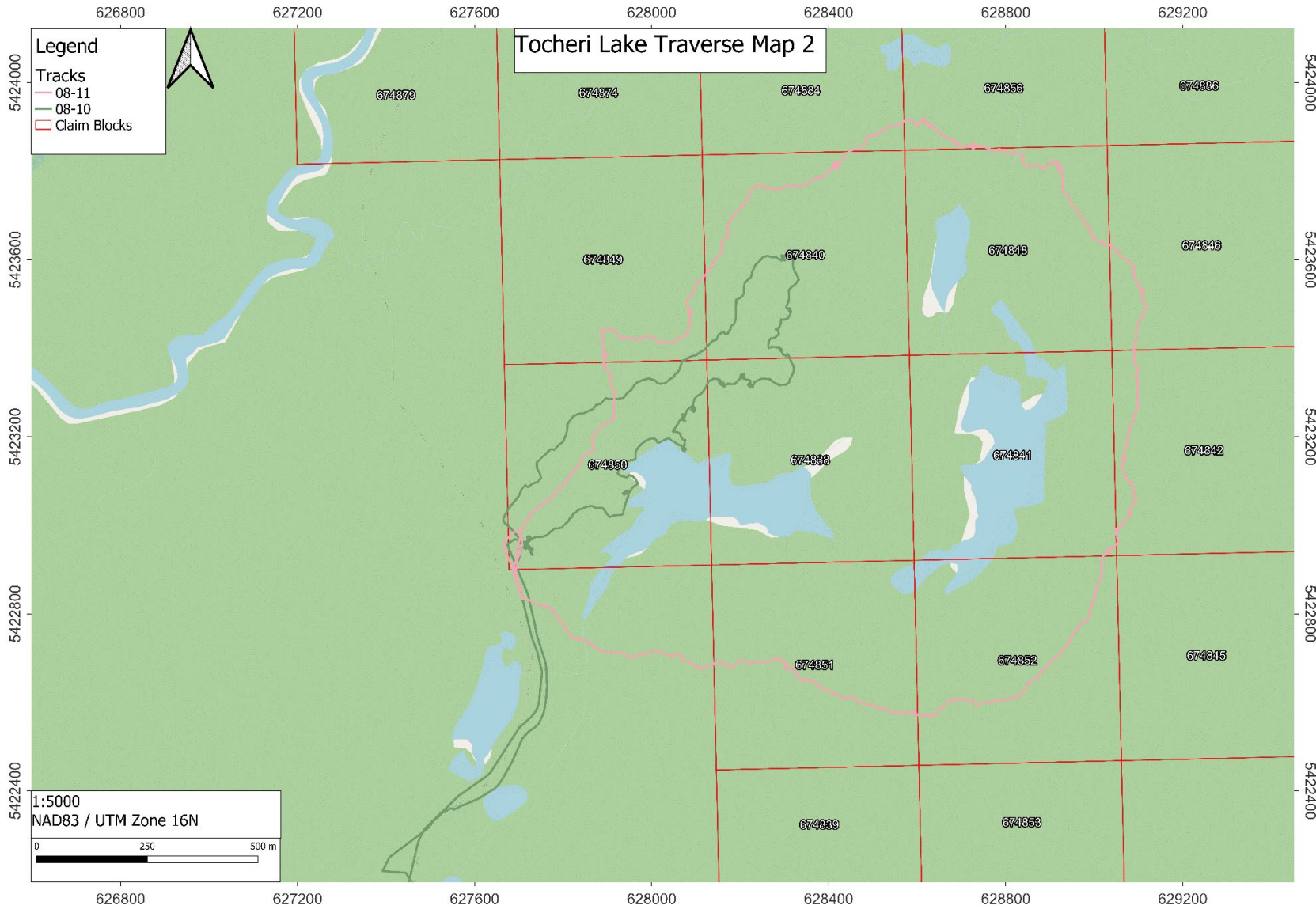


## Appendix C: Maps

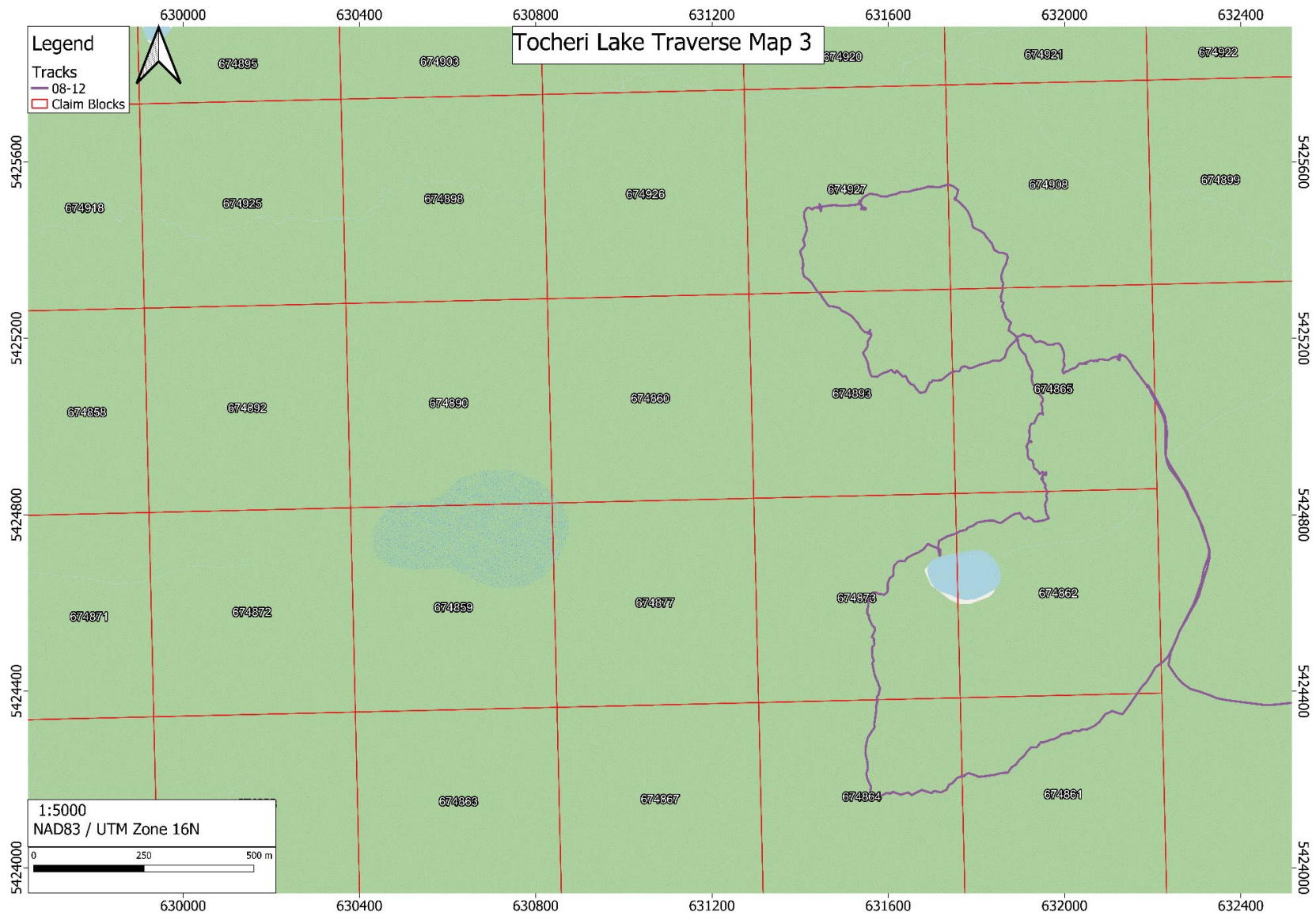




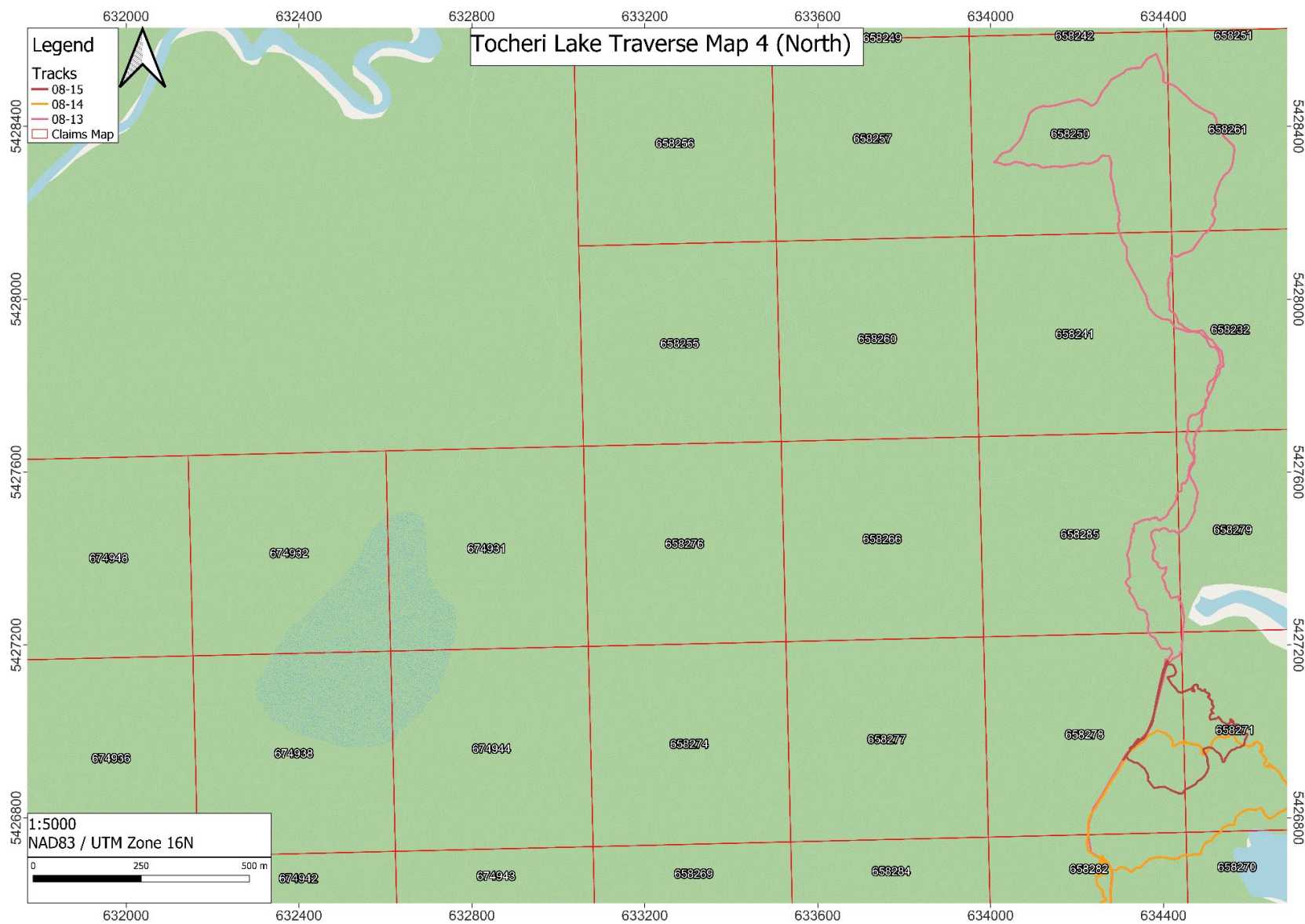
Map 1: Traverses in Quadrant 1



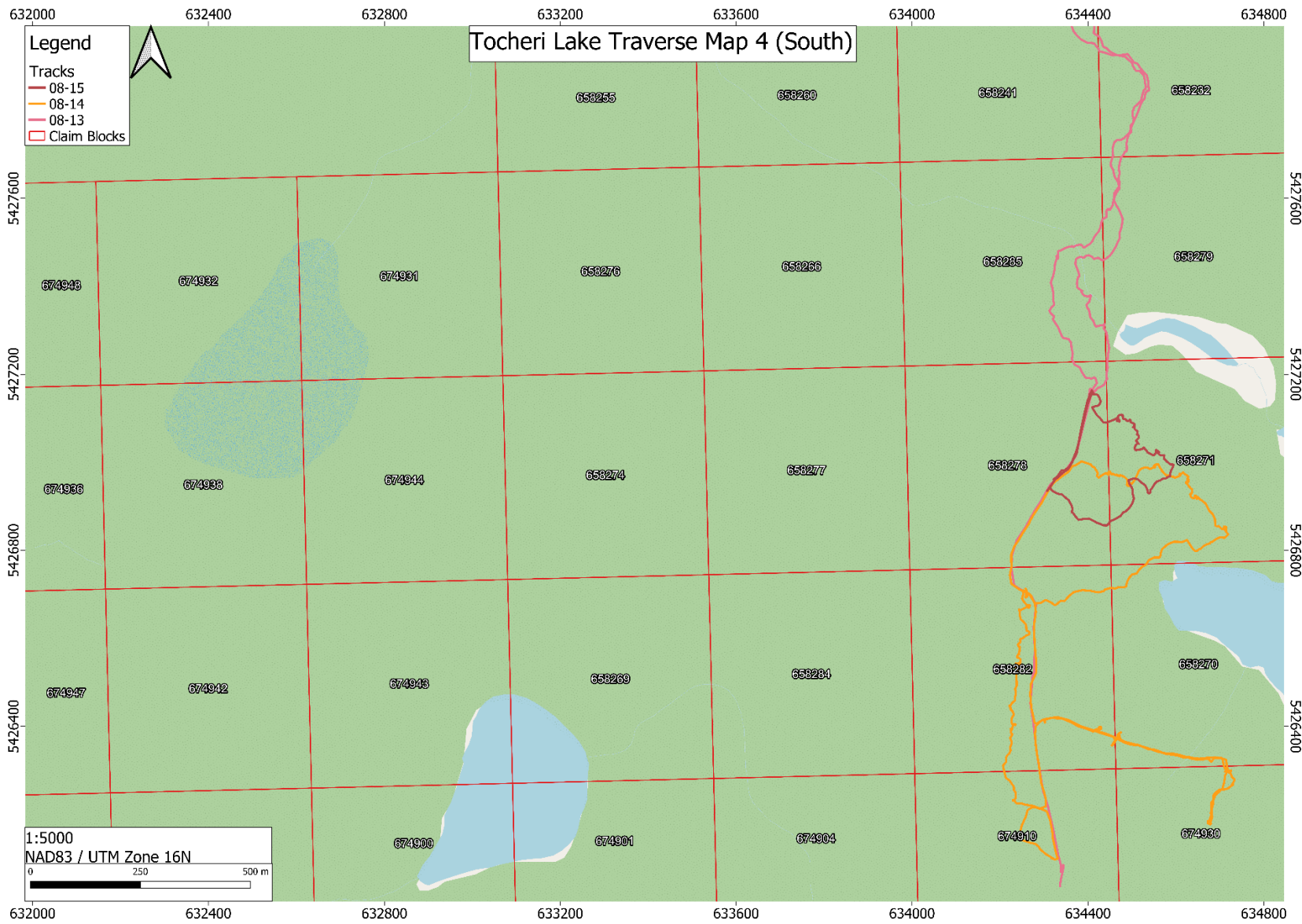
Map 2: Traverses in quadrant 2



Map 3: Traverses in quadrant 3

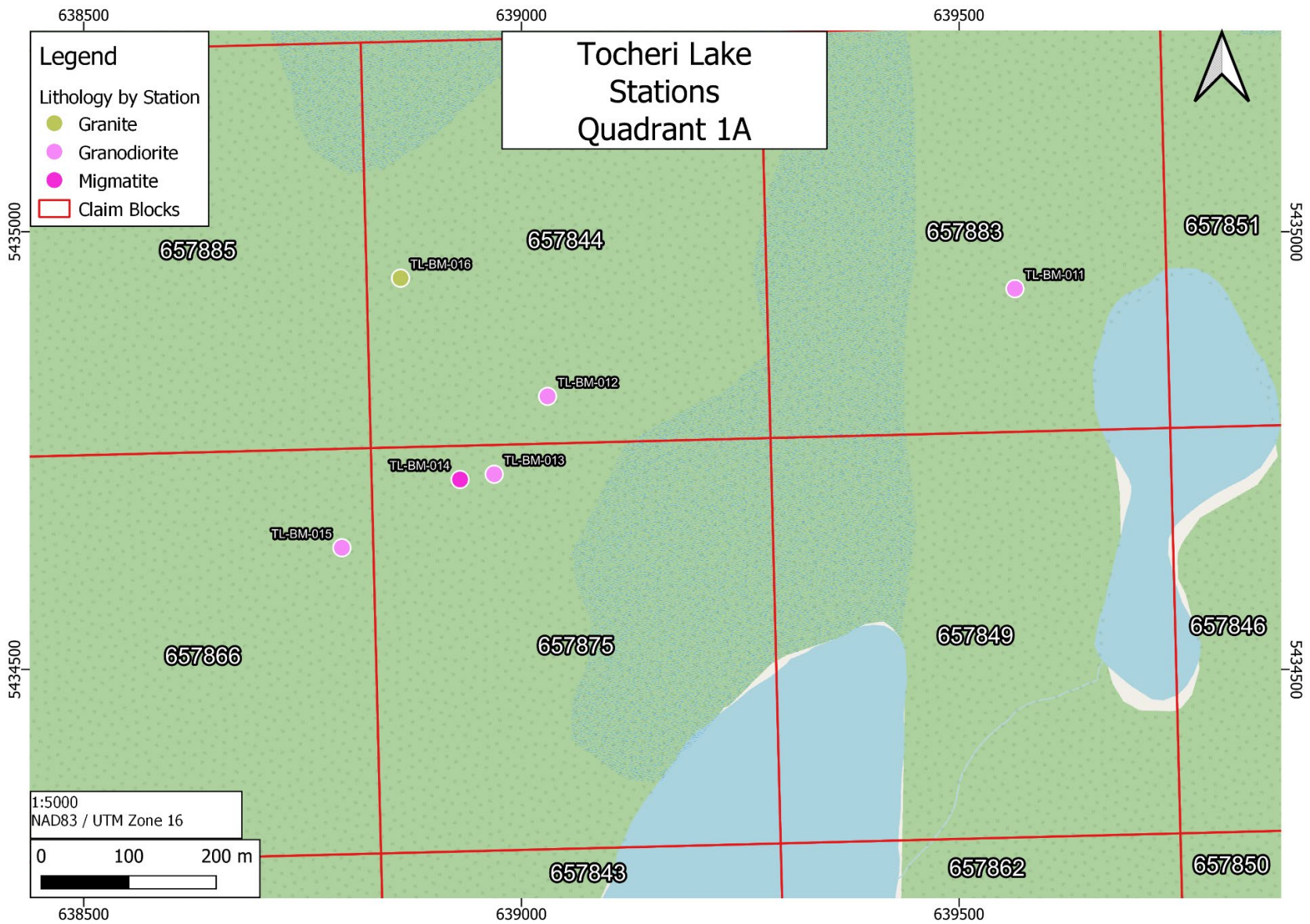


Map 4: Traverses in the northern portion of quadrant 4

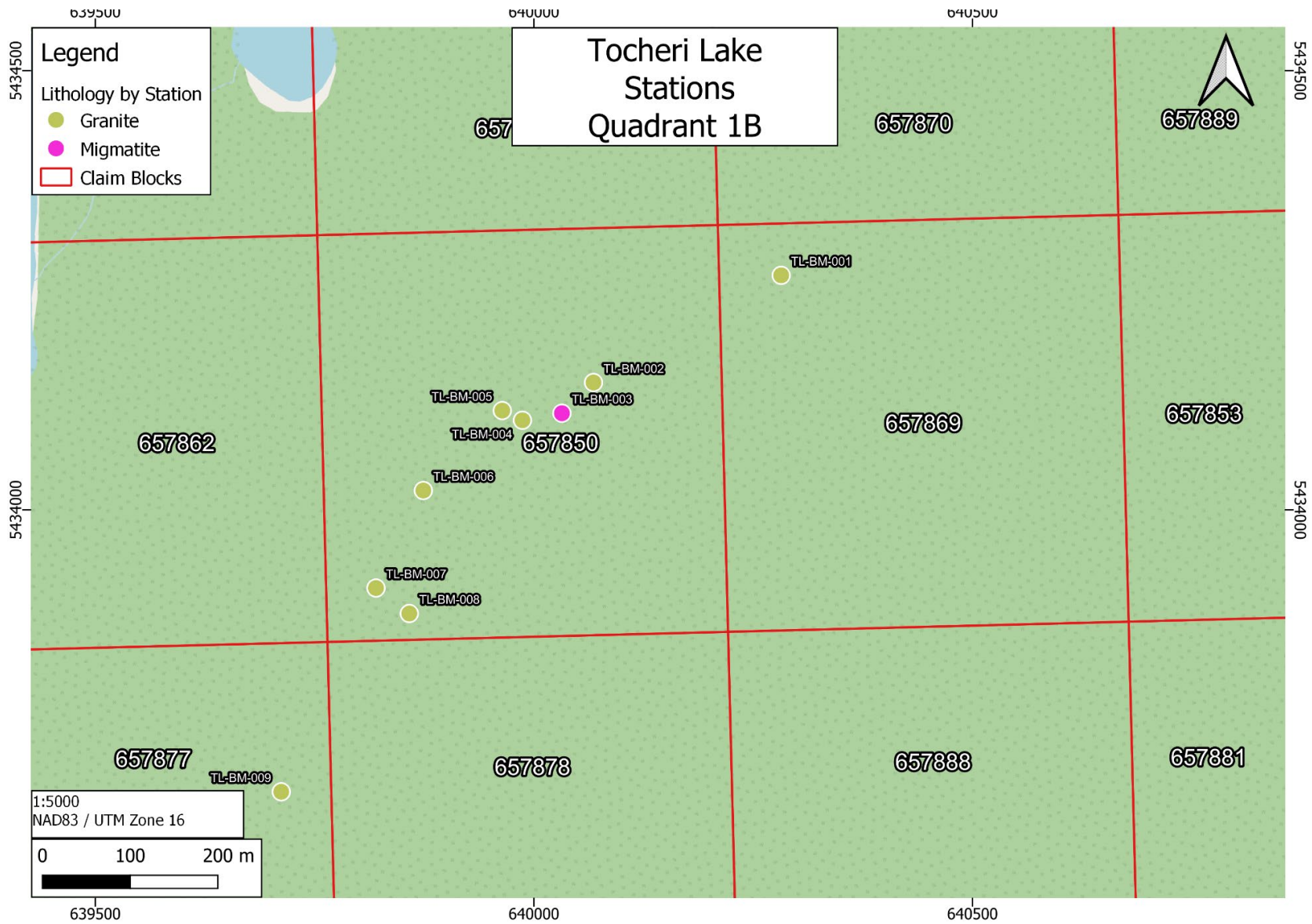


Map 5: Traverses in the southern portion of quadrant 4

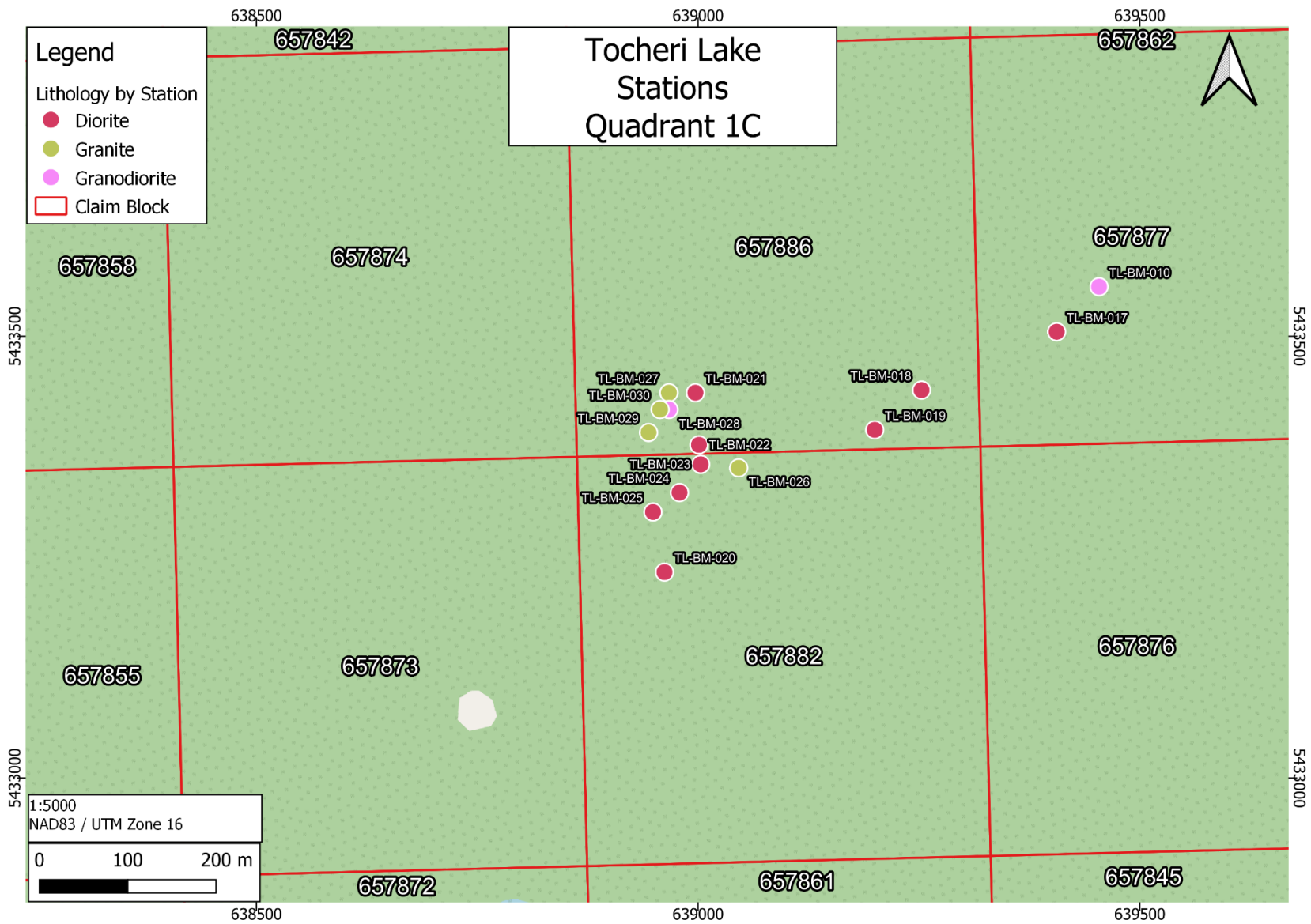




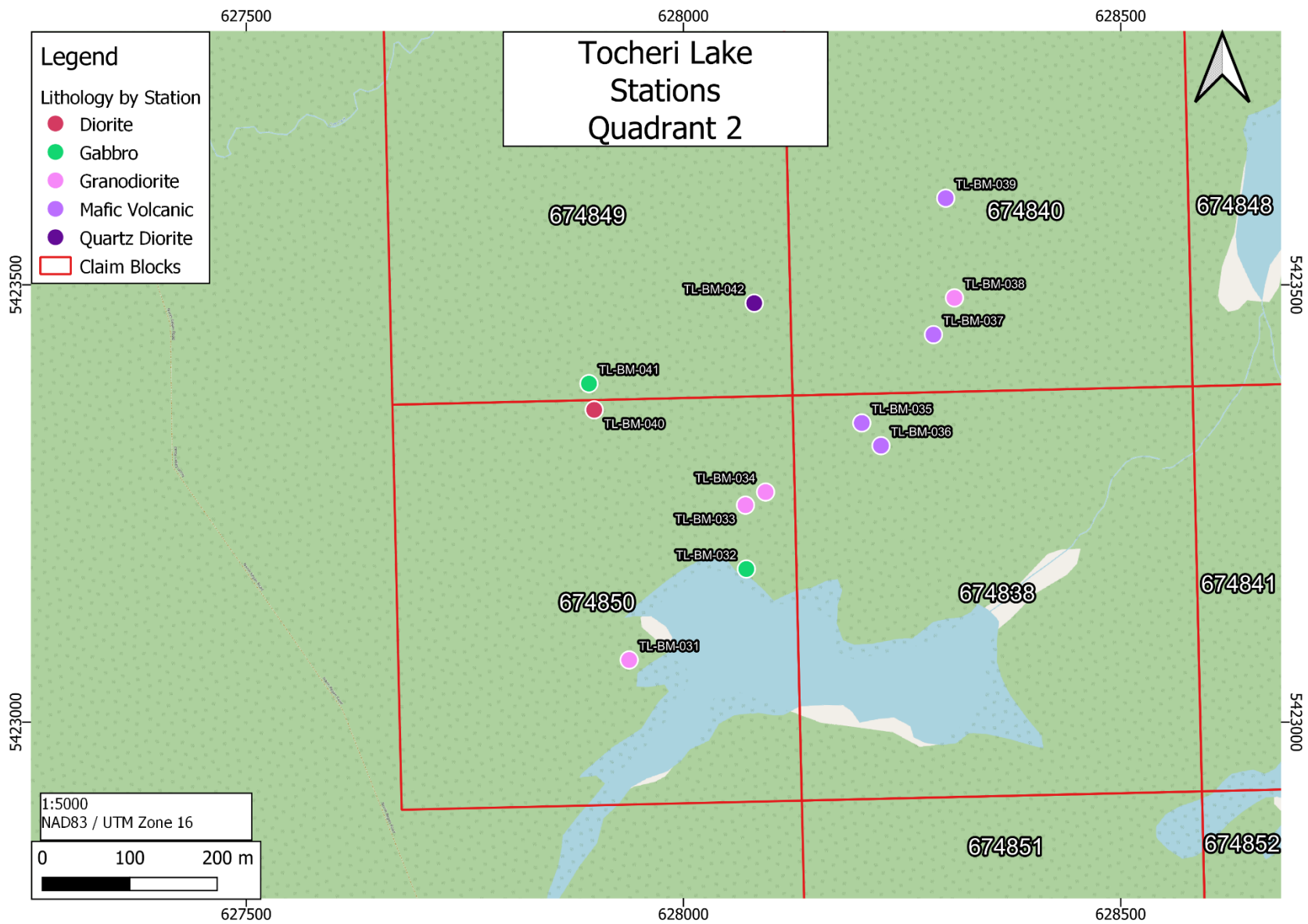
Map 6: Lithologies by station in quadrant 1



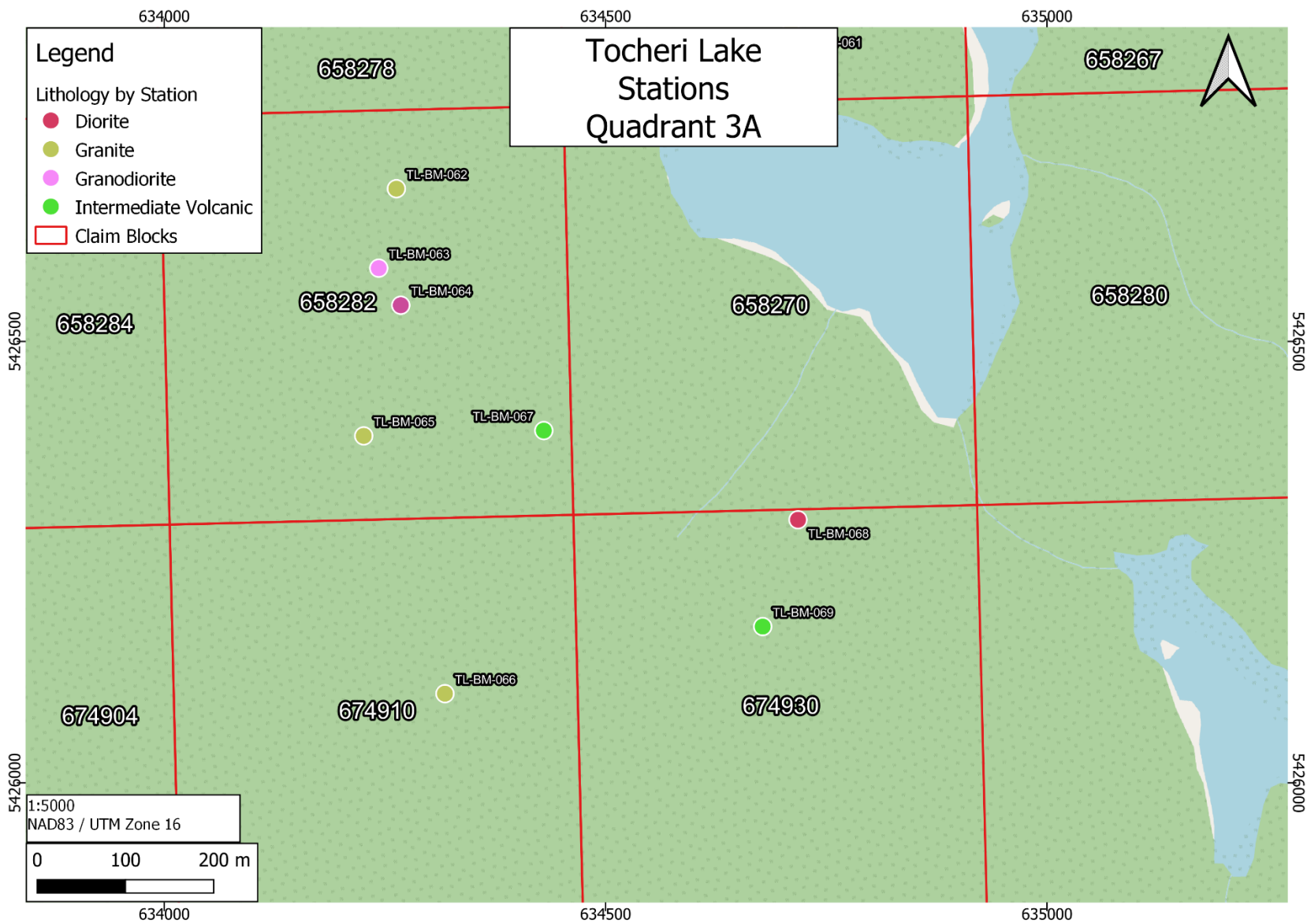
Map 7: Lithologies by station in quadrant 1



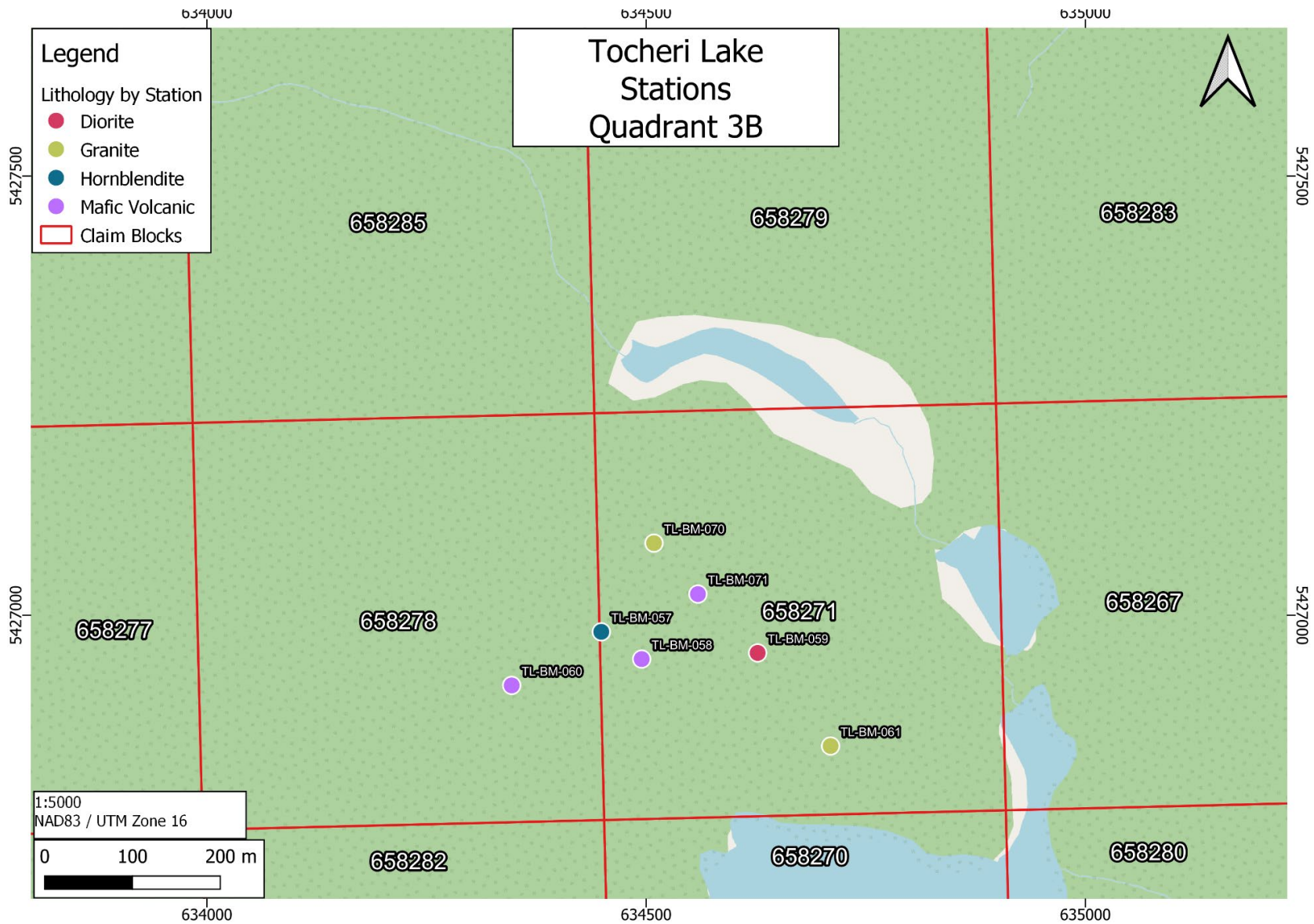
Map 8: Lithologies by station in quadrant 1



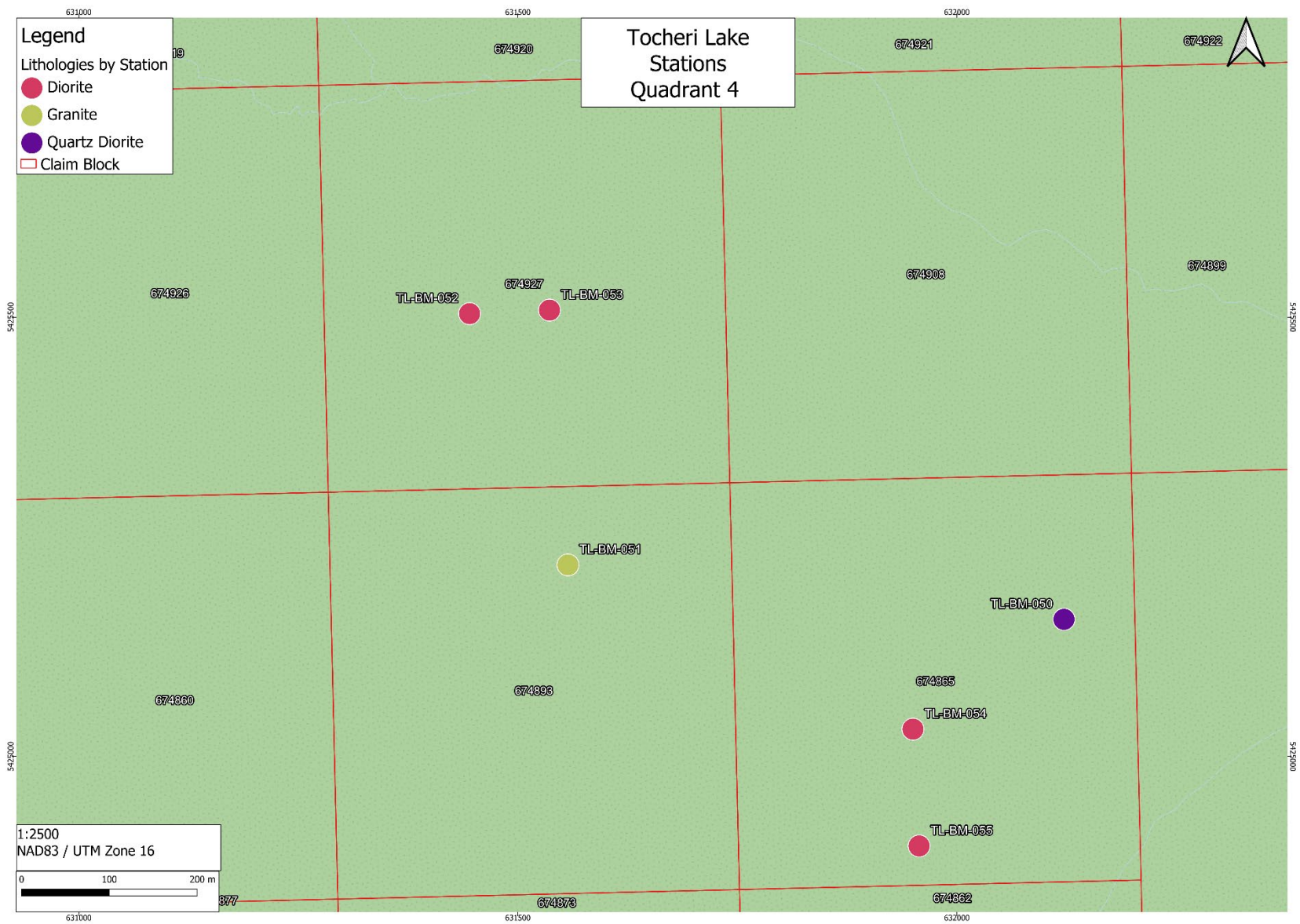
Map 9: Lithologies by station in quadrant 2



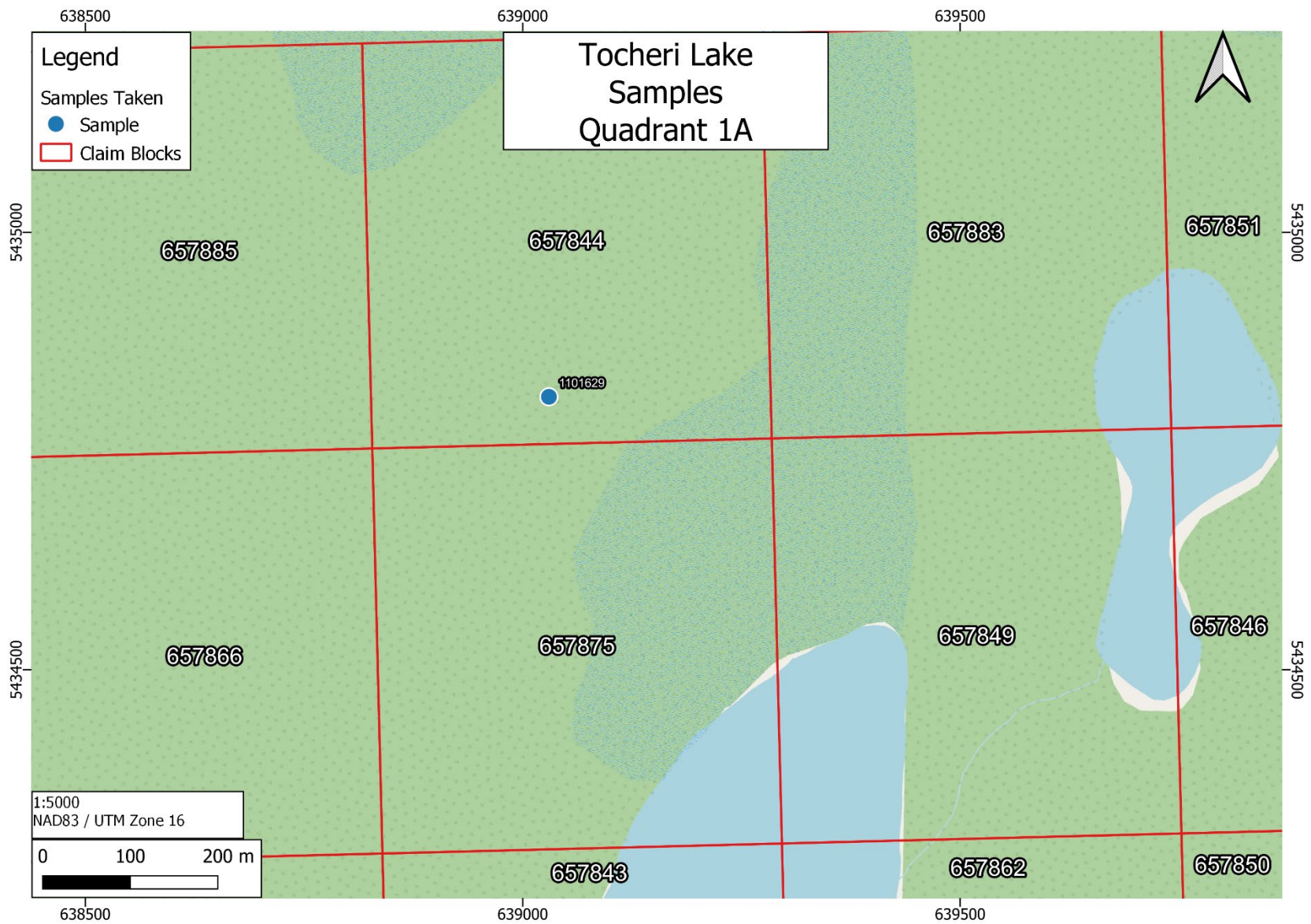
Map 10: Lithologies by station in quadrant 3



Map 11: Lithologies by station in quadrant 3

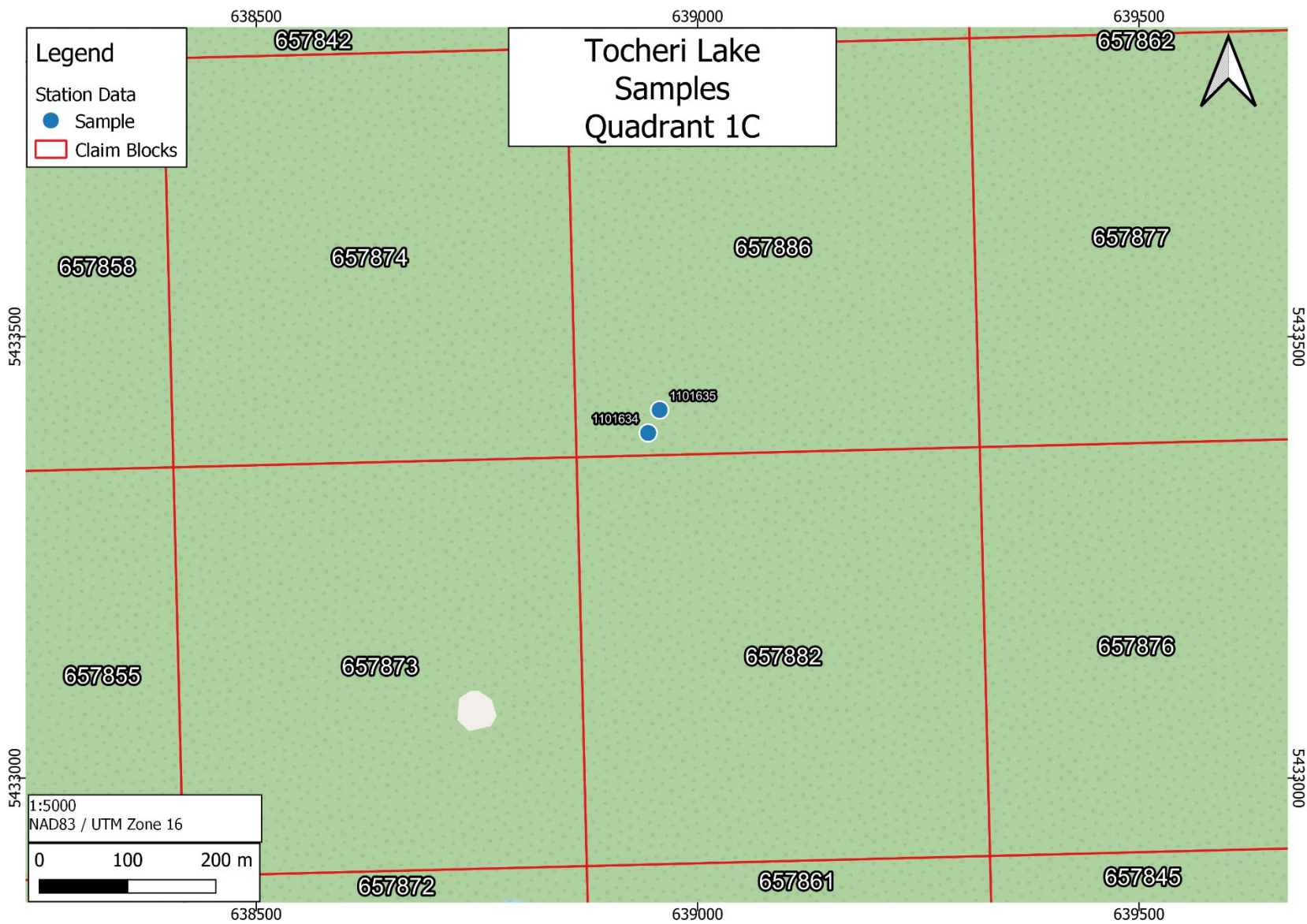


Map 12: Lithologies by station in quadrant 4

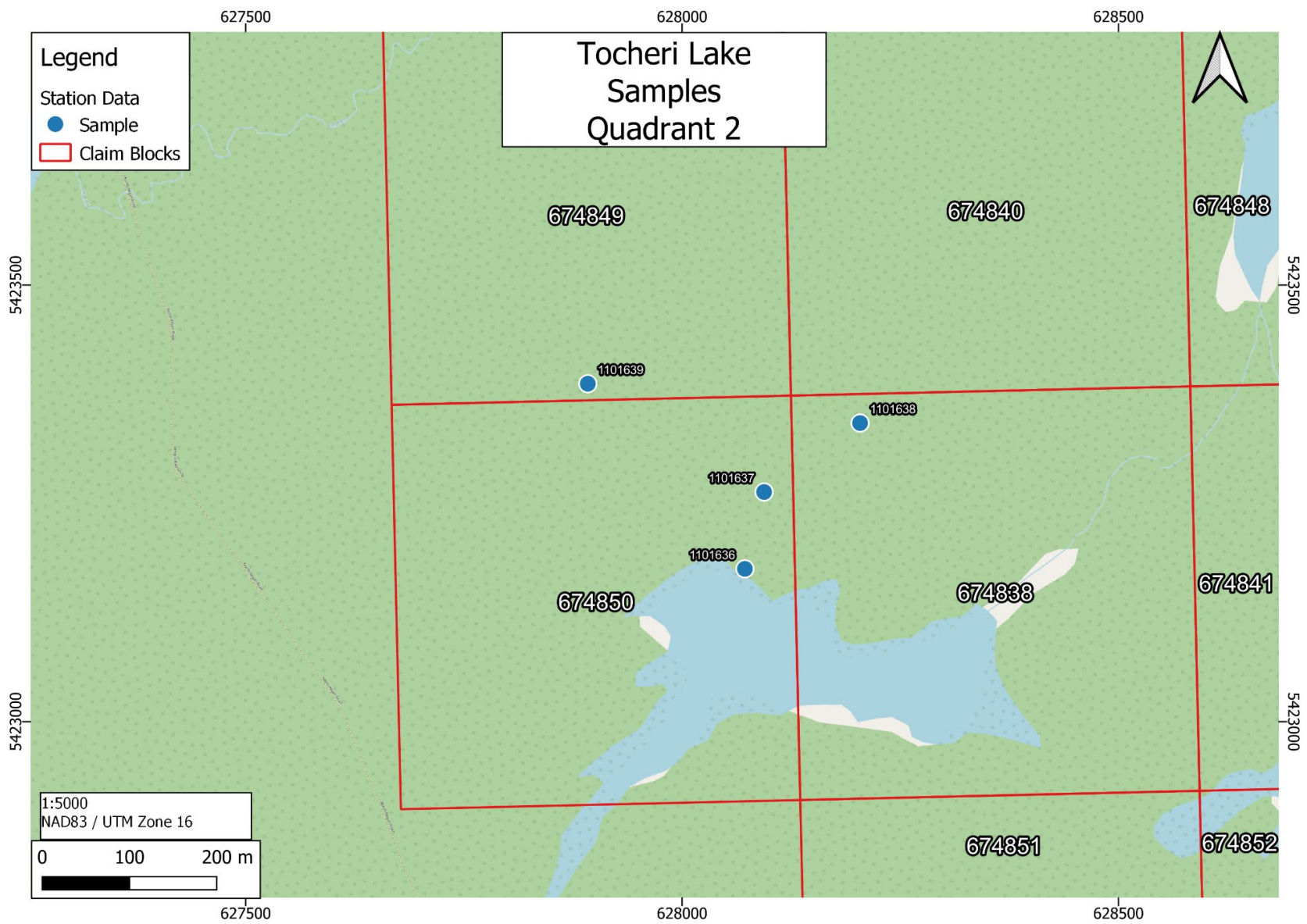


Map 13: Samples taken from quadrant 1

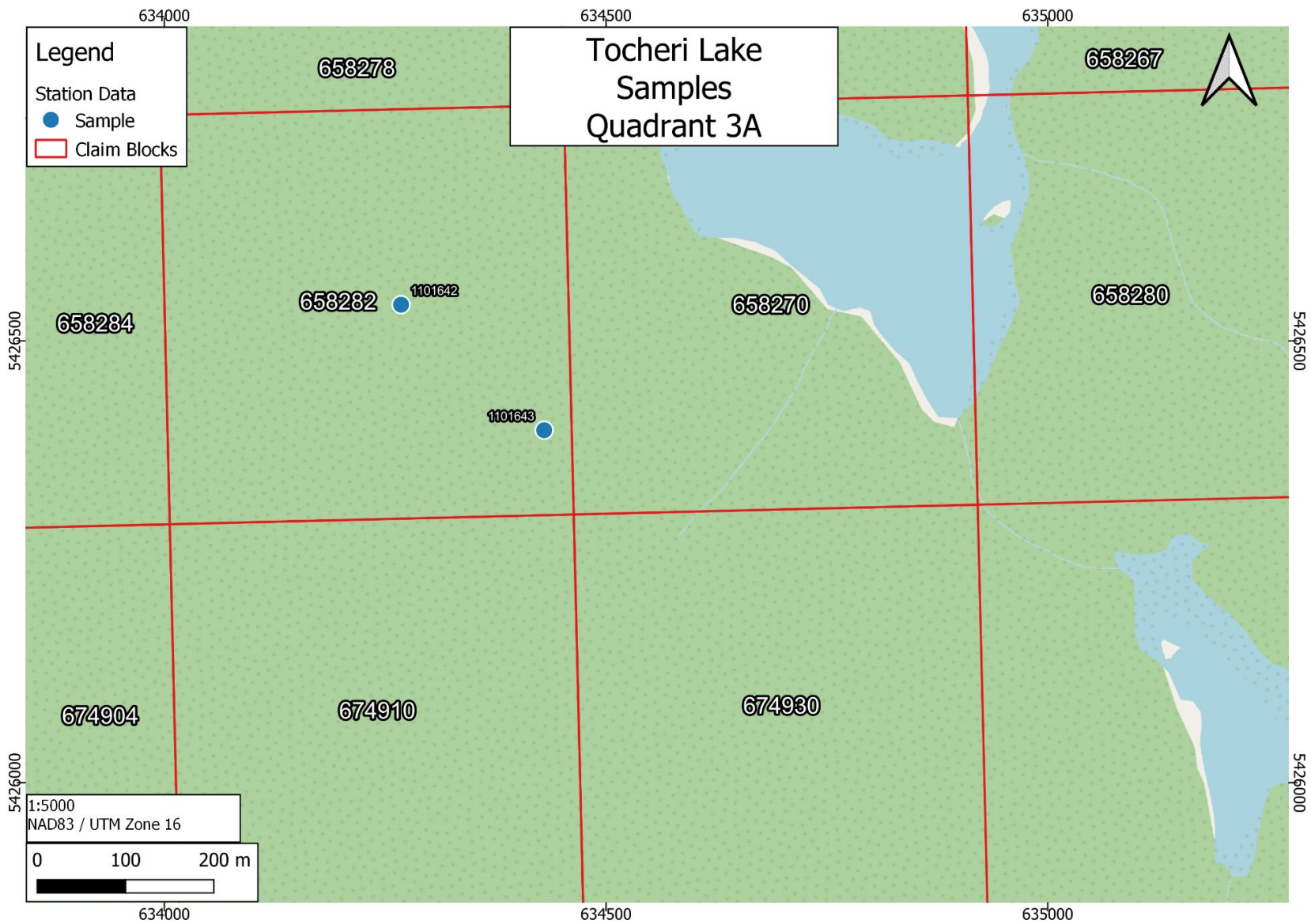




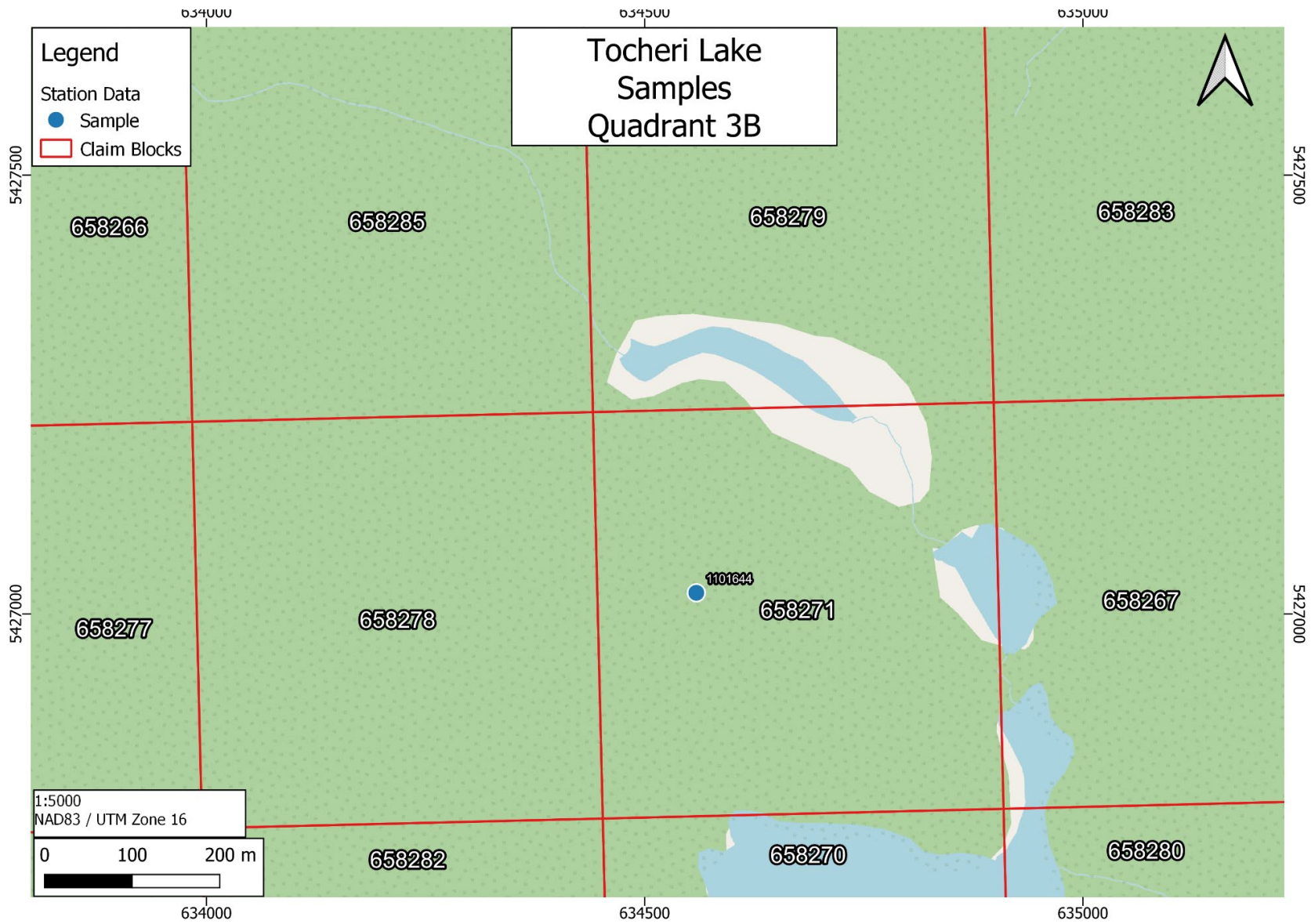
Map 14: Samples taken from quadrant 1



Map 15: Samples taken from quadrant 2



Map 16: Samples taken from quadrant 3



Map 17: Samples taken from quadrant 3

## Appendix D: Station Descriptions

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-001		640282	5434267	370	BM	2022-08-06	Float	Granite	White -grey-black, coarse-grained granitic gneiss with amphibolite bands. Weak foliation. Non magnetic and no mineralization. Boulder field of granites.
TL-BM-002		640068	5434145	374	BM	2022-08-06	Float	Granite	White- grey coarse-grained quartz and plagioclase rich granite with 10 % biotite. No foliation, non magnetic, no min.
TL-BM-003		640032	5434110	375	BM	2022-08-06	Float	Migmatite	White-grey black, coarse-grained, quartz rich migmatitic granite gneiss with magnetised amphibolite banding. Well foliated with gentle folding, no mineralization. Single standing large boulder.
TL-BM-004		639987	5434102	379	BM	2022-08-06	Outcrop	Granite	Black pink grey, medium to coarse grained hornblende gneiss with moderate patchy KSPAR alteration. Weakly foliated, non magnetic and trace pyrite. Pink white barren QV, 10-20 cm wide and 6ft long.
TL-BM-005		639964	5434113	378	BM	2022-08-06	Outcrop	Granite	White grey black, coarse grained amphibolite gneiss. Weakly foliated, very large partially exposed flat outcrop. Stockwork quartz veining and felsic dikes with large quartz grains and strong KSPAR alt.
TL-BM-006		639874	5434022	375	BM	2022-08-06	Float	Granite	White black pink coarse grained granite with magnetic mafic banding. No mineralization. Several granite boulders in the area.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-007		639820	5433911	379	BM	2022-08-06	Float	Granite	Very coarse grained quartz and plag rich granite with 5-10 percent biotite. No mag and no mineralization.
TL-BM-008		639858	5433882	382	BM	2022-08-06	Outcrop	Granite	Very similar to last large amph gneiss outcrop - 100m long by 25m across trends SW-NE. This was called migmatic amphibolite gneiss in report but no clear banding. Amphibolite intermixed with granite?
TL-BM-009		639712	5433679	396	BM	2022-08-06	Outcrop	Granite	Continuation of amphibolite granite gneiss trending NE-SW.
TL-BM-010		639454	5433556	403	BM	2022-08-06	Float	Granodiorite	White and black coarse grained quartz granodiorite. No mineralization and non magnetic.
TL-BM-011		639564	5434935	369	BM	2022-08-07	Float	Granodiorite	Grey coarse grained plag-rich granodiorite with 10% mafic minerals. Non magnetic and no mineralization. Float sample.
TL-BM-012	1101629	639030	5434812	361	BM	2022-08-07	Float	Granodiorite	Grey white medium to coarse grained plag-quartz rich granodiorite. Mafic crust of dominantly hornblende and phlogopite/ biotite on top of granite. 0.5% euhedral pyrite in granite. Nonmag.
TL-BM-013		638969	5434723	375	BM	2022-08-07	Float	Granodiorite	Grey white medium grained granodiorite with no visible mineralization and no magnetism. Boulders 20m SW are same litho but gneissic.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-014		638930	5434717	378	BM	2022-08-07	Float	Migmatite	Pink-grey-black coarse grained migmatized amphibolite gneiss with partial magnetic bands. Well foliated and gentle open folds. No mineralization.
TL-BM-015		638795	5434639	383	BM	2022-08-07	Float	Granodiorite	Coarse grained well foliated granodioritic geniss with no visible mineralization and nonmagnetic.
TL-BM-016		638862	5434947	371	BM	2022-08-07	Float	Granite	Grey white coarse grained quartz rich granite with no min or mag.
TL-BM-017		639406	5433505	394	BM	2022-08-08	Outcrop	Diorite	Foliated, overall composition dioritic. Felsic is mostly plag. Mafics are biotite, with some hornblende. Non magnetic and no mineralization. Foliation is not defined in bands, also spotty throughout 2x2m boulder. Irregular qtz veins cross-cut foliation
TL-BM-018		639253	5433439	401	BM	2022-08-08	Outcrop	Diorite	Foliated diorite, without banding. Consists of dominantly plag, with biotite and hornblende mafics. No mineralization, spotty magnetism. Sample taken.
TL-BM-019		639200	5433394	404	BM	2022-08-08	Outcrop	Diorite	Mg-cg diorite, with weak foliation. Irregular veins and dyklets of qtz and pegmatitic granite. Foliation trends NE-SW. Semi-exposed outcrop over 50x50m area. Weak patchy K-alt
TL-BM-020		638962	5433233	412	BM	2022-08-08	Outcrop	Diorite	Cg, unfoliated diorite. No mineralization or magnetism. 2x2x2m boulder.



Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-021		638997	5433436	408	BM	2022-08-09	Float	Diorite	Grey white coarse grained weakly foliated quartz-plag-hornblende diorite with trace sulfide specs. Non magnetic.
TL-BM-022		639001	5433377	410	BM	2022-08-09	Float	Diorite	Fine to medium grained well foliated quartz-plag- biotite diorite. Weakly magnetic. No sulfides. Foliation striking NS
TL-BM-023		639003	5433355	412	BM	2022-08-09	Outcrop	Diorite	White black coarse grained well foliated biotite-quartz-plag schist. Series of pegmatites running through outcrop. No mineralization and magnetization.
TL-BM-024		638979	5433323	414	BM	2022-08-09	Float	Diorite	White and black, fine to medium grained moderately to well gneissic foliation. Mafic bands consist of hornblende and biotite. Partially seperated bands from felsics. Weakly spotty magnetism. Trace py.
TL-BM-025		638949	5433301	411	BM	2022-08-09	Outcrop	Diorite	A texture is becoming coarser grained and more schistose texture. More clusters than bands. No mag. No min
TL-BM-026		639046	5433351	416	BM	2022-08-09	Float	Granite	White pink black, coarse grained quartz rich granitic gneiss with weak biotite bands. No min and no mag.
TL-BM-027		638967	5433436	405	BM	2022-08-09	Outcrop	Granite	Black-white fine to mg locally migmatized amphibolite gneiss. Could be an amphibolite ribbon intruded by felsics. Partially exposed outcrop NESW. Nonmagnetic and no mineralization.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-028		638967	5433417	409	SG	2022-08-09	Float	Granodiorite	Pink and grey rock, overall granodiorite composition. Strong foliation, banded in some areas but schistose overall. Felsics are K-spar, qtz. Mafics are biotite, hbl. Strong K-alt, almost no plag.
TL-BM-029	1101634	638944	5433391	407	BM	2022-08-09	Outcrop	Granite	White, brown coarse grained quartz rich granite +/- plag with ribbons of mafic intrusions - mostly biotite. Trace sulfide and no mag.
TL-BM-030	1101635	638957	5433417	406	BM	2022-08-09	Outcrop	Granite	Protolith dom granitic. Large, 1-2ft wide mafic intrusions, with moderate qtz veining. Veins contain trace pyrite. Non magnetic. Pyrite is also 2% bleb/dissemin in mafics, fracture filled.
TL-BM-031		627938	5423071	366	BM	2022-08-10	Outcrop	Granodiorite	White-grey medium grained well foliated granodiorite with weak potassic alteration. No min and no mag.
TL-BM-032	1101636	628072	5423175	367	BM	2022-08-10	Outcrop	Gabbro	Medium grained equigranular gabbro with mod to strong magnetism and 1% disseminated pyrite.
TL-BM-033		628071	5423248	367	BM	2022-08-10	Outcrop	Granodiorite	Medium grained strongly foliated plag-biotite-quartz granodiorite with mod patchy potassic alteration. No min or mag. Medium sized outcrop.
TL-BM-034	1101637	628094	5423263	372	BM	2022-08-10	Outcrop	Granodiorite	Medium grained white black strongly foliated granodioritic gneiss with distinct mafic and felsic bands. Trace amounts of magnetite.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-035	1101638	628204	5423342	374	BM	2022-08-10	Outcrop	Mafic Volcanic	Black fg pyroxene-biotite rich mafic volcanic with stockwork pegmatitic veining. Up to 1.5% pyrite, moderately magnetic.
TL-BM-036		628226	5423316	376	BM	2022-08-10	Outcrop	Mafic Volcanic	Same large mafic volcanic outcrop with strong pegmatites
TL-BM-037		628286	5423443	368	BM	2022-08-10	Outcrop	Mafic Volcanic	Continuation of mafic volcanic.
TL-BM-038		628310	5423485	365	BM	2022-08-10	Outcrop	Granodiorite	Medium grained well foliated white-grey-pink granodioritic gneiss. No mineralization. No magnetization.
TL-BM-039		628300	5423599	367	BM	2022-08-10	Outcrop	Mafic Volcanic	Continuation of mafic volcanic with pegmatites.
TL-BM-040		627898	5423357	386	BM	2022-08-11	Float	Diorite	White black medium grained plag-biotite rich dioritic gneiss. No mag and no mineralization.
TL-BM-041	1101639	627892	5423387	392	BM	2022-08-11	Outcrop	Gabbro	Medium grey, medium grained equigranular mod to strong magnetic gabbro with 1% blebby pyrite.
TL-BM-042		628081	5423479	378	BM	2022-08-11	Float	Quartz Diorite	Same lithology as the previous station but more quartz rich. Gneissic bands more distinct.
TL-BM-043		628414	5423813	360	BM	2022-08-11	Outcrop	Gabbro	Grey medium grained equigranular mod to strong magnetic gabbro with trace specks of sulfide. Same gabbro seen previously.
TL-BM-044		628630	5423904	355	BM	2022-08-11	Float	Granodiorite	Medium grained well foliated and banded granodiorite gneiss with weak patchy potassic alteration. Trace magnetite grains. No mineralization.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-045		628725	5423857	356	BM	2022-08-11	Float	Granite	Medium grained moderately foliated plagioclase rich granite with strong pervasive pink KSPAR alteration. Moderate green epidote alteration. No mag and no min.
TL-BM-046		628925	5423803	377	BM	2022-08-11	Outcrop	Granodiorite	White -pink, medium grained well foliated granodiorite with weak gneissic texture. Ribbons of deformed mafic bands parallel to foliation. No mag and no mineralization.
TL-BM-047		629113	5423531	373	BM	2022-08-11	Outcrop	Diorite	Grey black medium to coarse grained strongly foliated diorite gneiss. Foliation striking 350 and dipping east. Large outcrop. No mag or sulfides.
TL-BM-048		629064	5423154	377	BM	2022-08-11	Outcrop	Diorite	Same diorite gneiss as previous station.
TL-BM-049		629031	5422946	381	BM	2022-08-11	Outcrop	Diorite	Same diorite gneiss as previous station. Very large outcrop trending NS.
TL-BM-050		632122	5425156	358	BM	2022-08-12	Outcrop	Quartz Diorite	White black coarse grained, well foliated quartz diorite with weak banding. No mineralization and no magnetism.
TL-BM-051		631557	5425218	372	BM	2022-08-12	Outcrop	Granite	Pink-black, medium to coarse grained weakly foliated granite with moderate KSPAR alteration. No mineralization and no mag.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-052		631445	5425504	357	BM	2022-08-12	Float	Diorite	White black, coarse grained strongly foliated amphibole-plag-quartz diorite? Visible olivine crystals and weak kspar alteration. No mag and no min.
TL-BM-053		631536	5425508	362	BM	2022-08-12	Outcrop	Diorite	Coarse grained well foliated mafic rich diorite. No mag and no min.
TL-BM-054		631950	5425031	387	BM	2022-08-12	Float	Diorite	Same diorite unit as previous stations.
TL-BM-055		631957	5424898	384	BM	2022-08-12	Outcrop	Diorite	Same unit as previous diorites. Slightly more plag in this outcrop.
TL-BM-056		631772	5424207	388	BM	2022-08-12	Outcrop	Diorite	Same diorite as previous stations.
TL-BM-057		634449	5426981	382	BM	2022-08-14	Float	Hornblendite	Black medium grained hornblendite with oikocrytic texture. Minor felsic veinlets intruding. No min and no magnetism
TL-BM-058		634495	5426950	404	BM	2022-08-14	Outcrop	Mafic Volcanic	Very fine to fine grained black well foliated mafic volcanic gneiss with rustic weathering. Moderate epidote banding. Weak to mod kspar bands. No signs of mineralization. Weakly magnetic
TL-BM-059		634627	5426957	386	BM	2022-08-14	Outcrop	Diorite	Medium grained well foliated plag-biotite-quartz rich diorite gneiss. Fine grained chalcopyrite and pyrite up to 3%. Non magnetic.
TL-BM-060		634347	5426920	376	BM	2022-08-14	Outcrop	Mafic Volcanic	F-mg well foliated mafic volcanic. Same protolith as previous station but more felsic banding. Mafic bands have more chlorite and are strongly magnetic. Up to 2% fg silver pentlandite.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-061		634710	5426851	382	BM	2022-08-14	Outcrop	Granite	Pink white coarse grained quartz-plag rich granite. Weakly foliated. No mag or mineralization.
TL-BM-062		634263	5426673	376	BM	2022-08-14	Outcrop	Granite	Same granite as previous station. More epidote veining.
TL-BM-063		634243	5426583	380	BM	2022-08-14	Float	Granodiorite	White grey coarse grained plag-quartz-biotite weakly foliated granodiorite with weak potassic alteration. No min. Weak mag.
TL-BM-064	1101642	634268	5426541	380	BM	2022-08-14	Float	Pyroxenite	Fine grained strongly foliated pyroxenite with weak chlorite veining. Moderate quartz veining. Veins are a mix of foliaformed and crosscutting. Crosscutting QVs half 1 percent diss pyrite. Non mag.
TL-BM-065		634226	5426393	383	BM	2022-08-14	Outcrop	Granite	Pink white coarse grained plag-quartz-biotite weakly foliated granite. No mag or min.
TL-BM-066		634318	5426101	385	SG	2022-08-14	Float	Granite	White and grey, foliated granite. Fg-mg. Plag and qtz dominant. Foliation defined by biotite mafics. Slight K-alt also. 1x1x1m boulder.
TL-BM-067	1101643	634430	5426399	386	BM	2022-08-14	Float	Intermediate Volcanic	Light to medium grey, medium grained fg well foliated intermediate volcanic with 2% disseminated sulfides. Minor felsic veining parallel to foliation.

Station ID	Sample ID	Easting	Northing	Elevation	Sampler	Date	Sample Medium	Lithology	Notes
TL-BM-068		634718	5426298	396	BM	2022-08-14	Outcrop	Diorite	White black fine grained an strongly foliated diorite with large 1-2ft wide and several meter long diabase intrusions. Diabases strongly magnetic and most likely responsible for mag anomalies. No min.
TL-BM-069		634678	5426177	412	SG	2022-08-14	Outcrop	Intermediate Volcanic	Intermediate volcanics. Tenuous folding in many directions, almost migmatitic. Strong chlorite alt with foliation. Abundant qtz veins, most along foliation, some xcut. No minz in veins or otherwise.
TL-BM-070		634509	5427082	360	BM	2022-08-15	Outcrop	Granite	Coarse grained quart-plag rich granite with large felsic pegmatites intruding. No mag and no min.
TL-BM-071	1101644	634559	5427024	393	BM	2022-08-15	Outcrop	Mafic Volcanic	Black fg strongly foliated strongly oxidized mafic volcanic with foliaformed quartz veining and 3% blebby + diss sulfides - chalc and pyrite. Non mag.





Station ID	Structure	Az	Dip	Structure	Az	Dip	Alteration	Intensity	Style	Alteration	Intensity	Style	Mineralization	%	Style
TL-BM-039															
TL-BM-040															
TL-BM-041															
TL-BM-042															
TL-BM-043															
TL-BM-044							Pottasium	Moderate	Patchy						
TL-BM-045							Pottasium	Strong	Pervasive	Epidote	Moderate	Patchy			
TL-BM-046							Pottasium	Weak	Patchy						
TL-BM-047	Foliation	350	35												
TL-BM-048															
TL-BM-049															
TL-BM-050															
TL-BM-051							Pottasium	Moderate	Patchy						
TL-BM-052															
TL-BM-053															
TL-BM-054															
TL-BM-055															
TL-BM-056															
TL-BM-057															
TL-BM-058	Foliation	90	85				Epidote	Moderate	Banded						
TL-BM-059													Pyrite	3	Disseminated
TL-BM-060													Pentlandite	2	Disseminated
TL-BM-061															
TL-BM-062															
TL-BM-063															
TL-BM-064													Pyrite	1	Disseminated
TL-BM-065															
TL-BM-066							Pottasium	Weak	Patchy						
TL-BM-067													Pyrite	2	Disseminated
TL-BM-068															
TL-BM-069							Chlorite	Strong	Banded	Epidote	Moderate	Banded			
TL-BM-070															
TL-BM-071													Pyrite	3	Description