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Technical Report for MNDM Assessment Purposes, Fall 2021 Reconnaissance Mapping

Lizar Property

Lizar Township, Sault Ste. Marie Mining Division
Ontario, Canada

Prepared For:

Michael Thompson

Alexander Hughes, HB.Sc.

Fladgate Exploration Consulting Corporation



Date: February 28, 2022

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1 Introduction and Summary

The Lizar Property consists of 111 mining claims within the Lizar Township in the Sault Ste. Marie Mining Division. The property is fully owned by Michael Thompson and located approximately 60 km Northwest of White River, Ontario along Highway 631.

Michael Thompson contracted Fladgate Exploration Consulting Corporation (“**Fladgate**”) to conduct a reconnaissance mapping program on the Lizar property from November 7, 2021 to November 8, 2021. Fladgate provided all the required geological, geotechnical, and sub-contractor services on the program described herein. The program consisted of a property-wide reconnaissance geological mapping and sample collection over the Lizar Property. A total of 13 samples were collected for later whole-rock geochemical and petrographic analysis.

2 Terms of Reference

This report was prepared at the request of Michael Thompson for the use of filing assessment as required under the Ontario Mining Act. Unless otherwise noted, Universal Transverse Mercator (“UTM”) coordinates are provided in the datum of NAD83 Zone 16 North.

3 Disclaimer

The author disclaims responsibility for portions of the current report that rely on information from historic assessment files and government maps and reports which may not have been prepared in compliance with current standards.

4 Property Description and Location

The Lizar property is located in the Lizar Township within the Sault Ste. Marie Mining Division in Northwestern Ontario, approximately 60 km Northwest of White River (**Figure 4-1**). The property is centered on UTM coordinates 682,330 mE, 5,414,370 mN (NAD83 Zone 16N) and is accessed from White River by traveling 60 kilometers Northwest along HWY 631 followed by 25 kilometers of driving down all-weather accessible major and minor logging roads. Total travel time from White River to the Lizar property is approximately 1.5 hours. The property consists of 111 unpatented mining claims (**Figure 4-2**). A list of all claims can be found in **Table 4-1**.

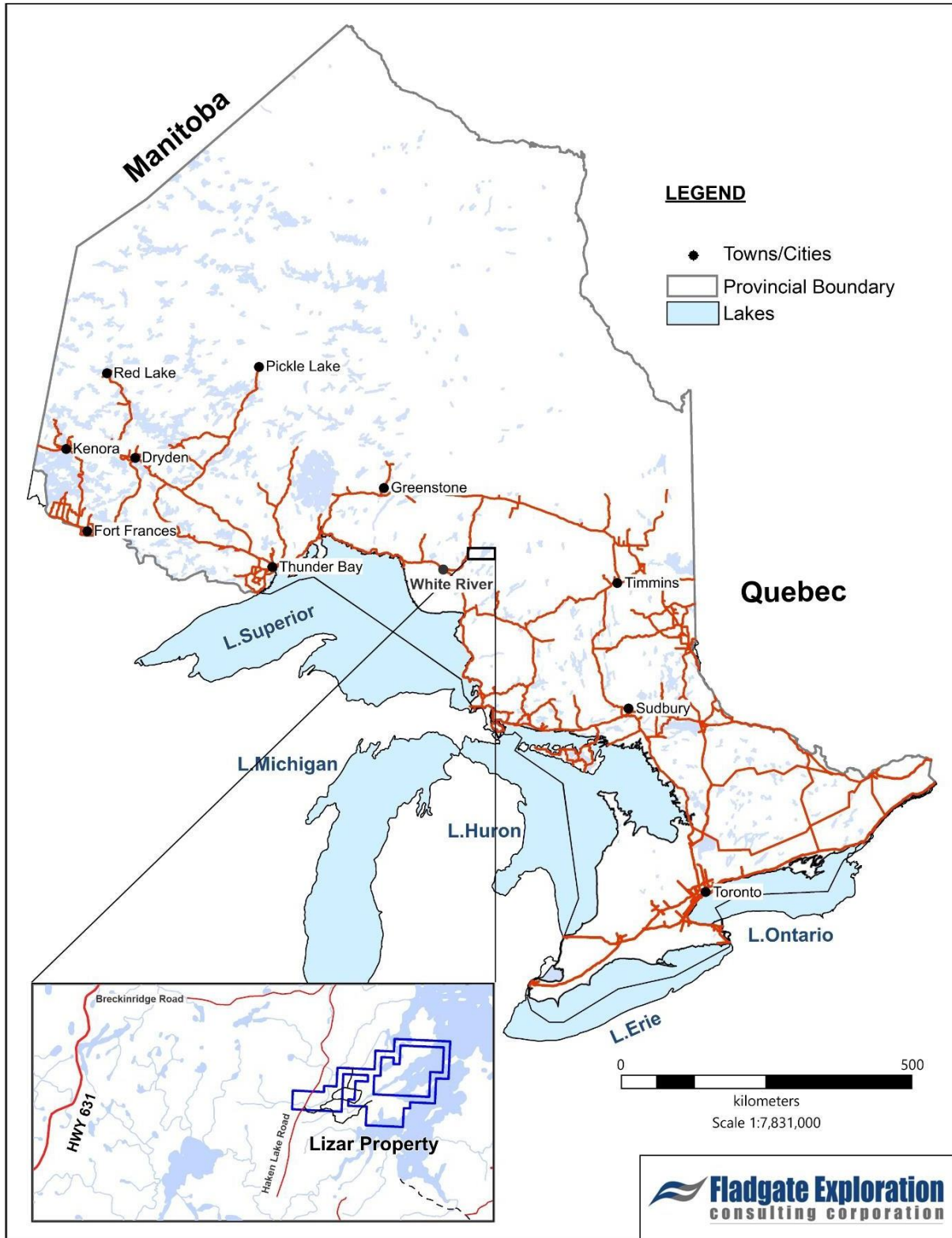


Figure 4-1 - Lizar Property Location

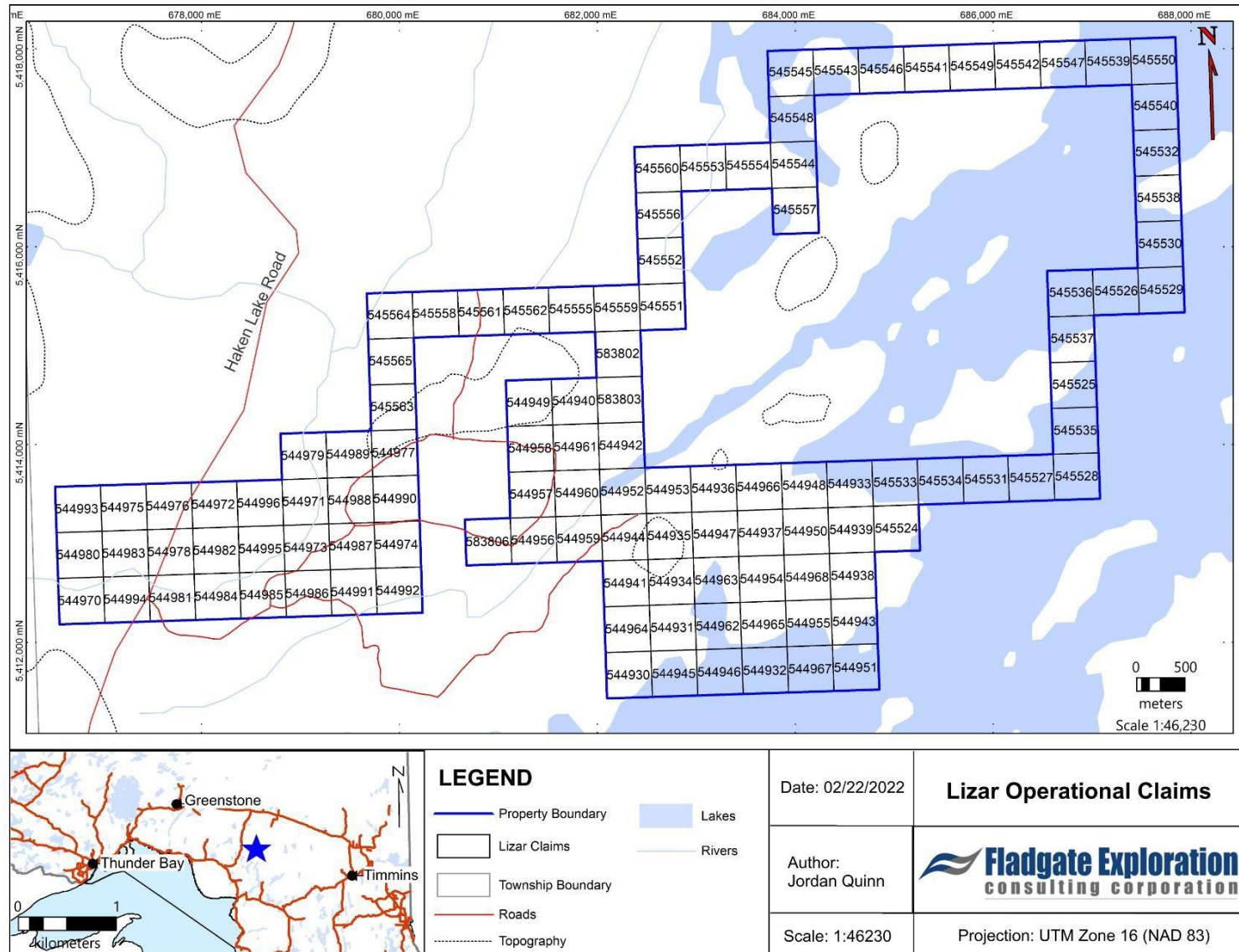


Figure 4-2 - Lizar Claim Map

Table 4-1 – Lizar Claims

Claim Number	Township	Units	Ha	Claim Due Date	% Option	Ownership
544930	LIZAR	1	16	2022-03-06	100	Michael Thompson
544931	LIZAR	1	16	2022-03-06	100	Michael Thompson
544932	LIZAR	1	16	2022-03-06	100	Michael Thompson
544933	LIZAR	1	16	2022-03-06	100	Michael Thompson
544934	LIZAR	1	16	2022-03-06	100	Michael Thompson
544935	LIZAR	1	16	2022-03-06	100	Michael Thompson
544936	LIZAR	1	16	2022-03-06	100	Michael Thompson
544937	LIZAR	1	16	2022-03-06	100	Michael Thompson
544938	LIZAR	1	16	2022-03-06	100	Michael Thompson
544939	LIZAR	1	16	2022-03-06	100	Michael Thompson
544940	LIZAR	1	16	2022-03-06	100	Michael Thompson
544941	LIZAR	1	16	2022-03-06	100	Michael Thompson
544942	LIZAR	1	16	2022-03-06	100	Michael Thompson
544943	LIZAR	1	16	2022-03-06	100	Michael Thompson
544944	LIZAR	1	16	2022-03-06	100	Michael Thompson
544945	LIZAR	1	16	2022-03-06	100	Michael Thompson
544946	LIZAR	1	16	2022-03-06	100	Michael Thompson
544947	LIZAR	1	16	2022-03-06	100	Michael Thompson
544948	LIZAR	1	16	2022-03-06	100	Michael Thompson
544949	LIZAR	1	16	2022-03-06	100	Michael Thompson
544950	LIZAR	1	16	2022-03-06	100	Michael Thompson
544951	LIZAR	1	16	2022-03-06	100	Michael Thompson
544952	LIZAR	1	16	2022-03-06	100	Michael Thompson
544953	LIZAR	1	16	2022-03-06	100	Michael Thompson
544954	LIZAR	1	16	2022-03-06	100	Michael Thompson
544955	LIZAR	1	16	2022-03-06	100	Michael Thompson
544956	LIZAR	1	16	2022-03-06	100	Michael Thompson
544957	LIZAR	1	16	2022-03-06	100	Michael Thompson
544958	LIZAR	1	16	2022-03-06	100	Michael Thompson
544959	LIZAR	1	16	2022-03-06	100	Michael Thompson
544960	LIZAR	1	16	2022-03-06	100	Michael Thompson
544961	LIZAR	1	16	2022-03-06	100	Michael Thompson
544962	LIZAR	1	16	2022-03-06	100	Michael Thompson
544963	LIZAR	1	16	2022-03-06	100	Michael Thompson
544964	LIZAR	1	16	2022-03-06	100	Michael Thompson
544965	LIZAR	1	16	2022-03-06	100	Michael Thompson
544966	LIZAR	1	16	2022-03-06	100	Michael Thompson
544967	LIZAR	1	16	2022-03-06	100	Michael Thompson
544968	LIZAR	1	16	2022-03-06	100	Michael Thompson
544970	LIZAR	1	16	2022-03-06	100	Michael Thompson

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Claim Number	Township	Units	Ha	Claim Due Date	% Option	Ownership
544971	LIZAR	1	16	2022-03-06	100	Michael Thompson
544972	LIZAR	1	16	2022-03-06	100	Michael Thompson
544973	LIZAR	1	16	2022-03-06	100	Michael Thompson
544974	LIZAR	1	16	2022-03-06	100	Michael Thompson
544975	LIZAR	1	16	2022-03-06	100	Michael Thompson
544976	LIZAR	1	16	2022-03-06	100	Michael Thompson
544977	LIZAR	1	16	2022-03-06	100	Michael Thompson
544978	LIZAR	1	16	2022-03-06	100	Michael Thompson
544979	LIZAR	1	16	2022-03-06	100	Michael Thompson
544980	LIZAR	1	16	2022-03-06	100	Michael Thompson
544981	LIZAR	1	16	2022-03-06	100	Michael Thompson
544982	LIZAR	1	16	2022-03-06	100	Michael Thompson
544983	LIZAR	1	16	2022-03-06	100	Michael Thompson
544984	LIZAR	1	16	2022-03-06	100	Michael Thompson
544985	LIZAR	1	16	2022-03-06	100	Michael Thompson
544986	LIZAR	1	16	2022-03-06	100	Michael Thompson
544987	LIZAR	1	16	2022-03-06	100	Michael Thompson
544988	LIZAR	1	16	2022-03-06	100	Michael Thompson
544989	LIZAR	1	16	2022-03-06	100	Michael Thompson
544990	LIZAR	1	16	2022-03-06	100	Michael Thompson
544991	LIZAR	1	16	2022-03-06	100	Michael Thompson
544992	LIZAR	1	16	2022-03-06	100	Michael Thompson
544993	LIZAR	1	16	2022-03-06	100	Michael Thompson
544994	LIZAR	1	16	2022-03-06	100	Michael Thompson
544995	LIZAR	1	16	2022-03-06	100	Michael Thompson
544996	LIZAR	1	16	2022-03-06	100	Michael Thompson
545524	LIZAR	1	16	2022-03-10	100	Michael Thompson
545525	LIZAR	1	16	2022-03-10	100	Michael Thompson
545526	LIZAR	1	16	2022-03-10	100	Michael Thompson
545527	LIZAR	1	16	2022-03-10	100	Michael Thompson
545528	LIZAR	1	16	2022-03-10	100	Michael Thompson
545529	LIZAR	1	16	2022-03-10	100	Michael Thompson
545530	LIZAR	1	16	2022-03-10	100	Michael Thompson
545531	LIZAR	1	16	2022-03-10	100	Michael Thompson
545532	LIZAR	1	16	2022-03-10	100	Michael Thompson
545533	LIZAR	1	16	2022-03-10	100	Michael Thompson
545534	LIZAR	1	16	2022-03-10	100	Michael Thompson
545535	LIZAR	1	16	2022-03-10	100	Michael Thompson
545536	LIZAR	1	16	2022-03-10	100	Michael Thompson
545537	LIZAR	1	16	2022-03-10	100	Michael Thompson
545538	LIZAR	1	16	2022-03-10	100	Michael Thompson

Claim Number	Township	Units	Ha	Claim Due Date	% Option	Ownership
545539	LIZAR	1	16	2022-03-10	100	Michael Thompson
545540	LIZAR	1	16	2022-03-10	100	Michael Thompson
545541	LIZAR	1	16	2022-03-10	100	Michael Thompson
545542	LIZAR	1	16	2022-03-10	100	Michael Thompson
545543	LIZAR	1	16	2022-03-10	100	Michael Thompson
545544	LIZAR	1	16	2022-03-10	100	Michael Thompson
545545	LIZAR	1	16	2022-03-10	100	Michael Thompson
545546	LIZAR	1	16	2022-03-10	100	Michael Thompson
545547	LIZAR	1	16	2022-03-10	100	Michael Thompson
545548	LIZAR	1	16	2022-03-10	100	Michael Thompson
545549	LIZAR	1	16	2022-03-10	100	Michael Thompson
545550	LIZAR	1	16	2022-03-10	100	Michael Thompson
545551	LIZAR	1	16	2022-03-10	100	Michael Thompson
545552	LIZAR	1	16	2022-03-10	100	Michael Thompson
545553	LIZAR	1	16	2022-03-10	100	Michael Thompson
545554	LIZAR	1	16	2022-03-10	100	Michael Thompson
545555	LIZAR	1	16	2022-03-10	100	Michael Thompson
545556	LIZAR	1	16	2022-03-10	100	Michael Thompson
545557	LIZAR	1	16	2022-03-10	100	Michael Thompson
545558	LIZAR	1	16	2022-03-10	100	Michael Thompson
545559	LIZAR	1	16	2022-03-10	100	Michael Thompson
545560	LIZAR	1	16	2022-03-10	100	Michael Thompson
545561	LIZAR	1	16	2022-03-10	100	Michael Thompson
545562	LIZAR	1	16	2022-03-10	100	Michael Thompson
545563	LIZAR	1	16	2022-03-10	100	Michael Thompson
545564	LIZAR	1	16	2022-03-10	100	Michael Thompson
545565	LIZAR	1	16	2022-03-10	100	Michael Thompson
583802	LIZAR	1	16	2022-04-13	100	Michael Thompson
583803	LIZAR	1	16	2022-04-13	100	Michael Thompson
583806	LIZAR	1	16	2022-04-13	100	Michael Thompson

5 Access, Local Resources, and Infrastructure

The property is accessible year-round, as it is located 25 km east of HWY 631, which is a major north-south route connecting White River to Hornepayne (**Figure 4-1**). After driving 60 km Northwest of White River on Hwy 631, access to the property is gained by driving ~16km east along Breckinridge Road followed by 9km south along

Haken Lake Road. Both roads are well maintained gravel roads that provide year-round access to the property (**Figure 4-2**).

White River is ~60 km to the southwest and is the nearest population centre, with services and amenities for industrial, educational, and leisure activities. Local experienced labour is available.

Watson's Windy Point Lodge is located on the most eastern edge of the property. This permanent structure provides lodging and fishing tours during the spring, summer and falls months.

6 Climate and Physiography

The Lizar Property is located within the Canadian Shield, which is a major physiographic division of Canada. The property is situated in an area of swamps, rivers, and small lakes.

Climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January temperatures range from -11°C to -23°C, and average July temperatures are between 11°C and 24°C. Work can be done (subject to snow and freezing) for most of the year.

There is relatively moderate relief topography for a majority of the property which makes outcrop easy to find. This topography is caused by the abundance of faulting and the presence of dikes on the property.

7 Geological Setting

7.1 Regional Geology

As illustrated in **Figure 7-1** the Lizar Property is located in the southwestern end of the western portion of the Abitibi Subprovince within the Archean age Superior Province.

7.1.1 *The Superior Province*

The Superior Province is a major geological province comprised of Archean age rocks that forms the core of the North American continent. In Ontario, the Superior is surrounded by younger Grenville and Southern Provinces to the south and southeast. The Superior Province consists of alternating granite-greenstone and metasedimentary belts in the central portion, and has been subdivided into smaller subprovinces based on rock type: granite-greenstone plutonic and metavolcanic rocks (Uchi, Wawa, and Abitibi subprovinces), metasedimentary rocks (English River and Quetico subprovinces), plutonic granitic rocks (Winnipeg River subprovince), and high-grade greenstone rocks to the north (Kapusking Zone). Subprovinces are commonly fault-bounded and display contrasting lithological assemblages, metamorphic and structural styles, geophysical characteristics, and ages.

7.1.2 *The Abitibi Subprovince*

The Abitibi Subprovince consists of a series of relatively small greenstone belts including the Manitouwadge, Shriber-Hemlo, Mishibishu and Michipicoten as well as the Dayohessarah-Kabinakagami greenstone belt. The Lizar Property is located within the Kabinakagami portion of the Dayohessarah-Kabinakagami greenstone belt.

Stratigraphically, the Abitibi Subprovince comprises a continuous succession of Neo- to Mesoproterozoic metavolcanic and metasedimentary rocks interpreted to have developed in an ensimatic basin (Ayer, 2001). These supracrustal rocks are intruded by multiple generations of felsic to ultramafic igneous rocks. This intrusive activity extended from the Neoproterozoic into the late Proterozoic.

The rocks of the Abitibi Subprovince have experienced variable degrees of deformation and metamorphism. Of particular significance in the Timmins region, due to its relationship with gold mineralization (Berger, 2001), is the Porcupine-Destor Fault Zone (PDFZ). The fault zone is a major structural feature that strikes east-northeast and has been traced along strike for over 450 km across the Abitibi Subprovince (Berger, 2001). The PDFZ is offset by numerous north-northwest-striking faults that partition the Abitibi greenstone belt into distinct blocks that display different styles of alteration associated with gold mineralization, deformation and metamorphism (Berger, 2001). Early Proterozoic Matachewan dikes are also offset by the north-northwest-striking faults (Brisbin, 1997).

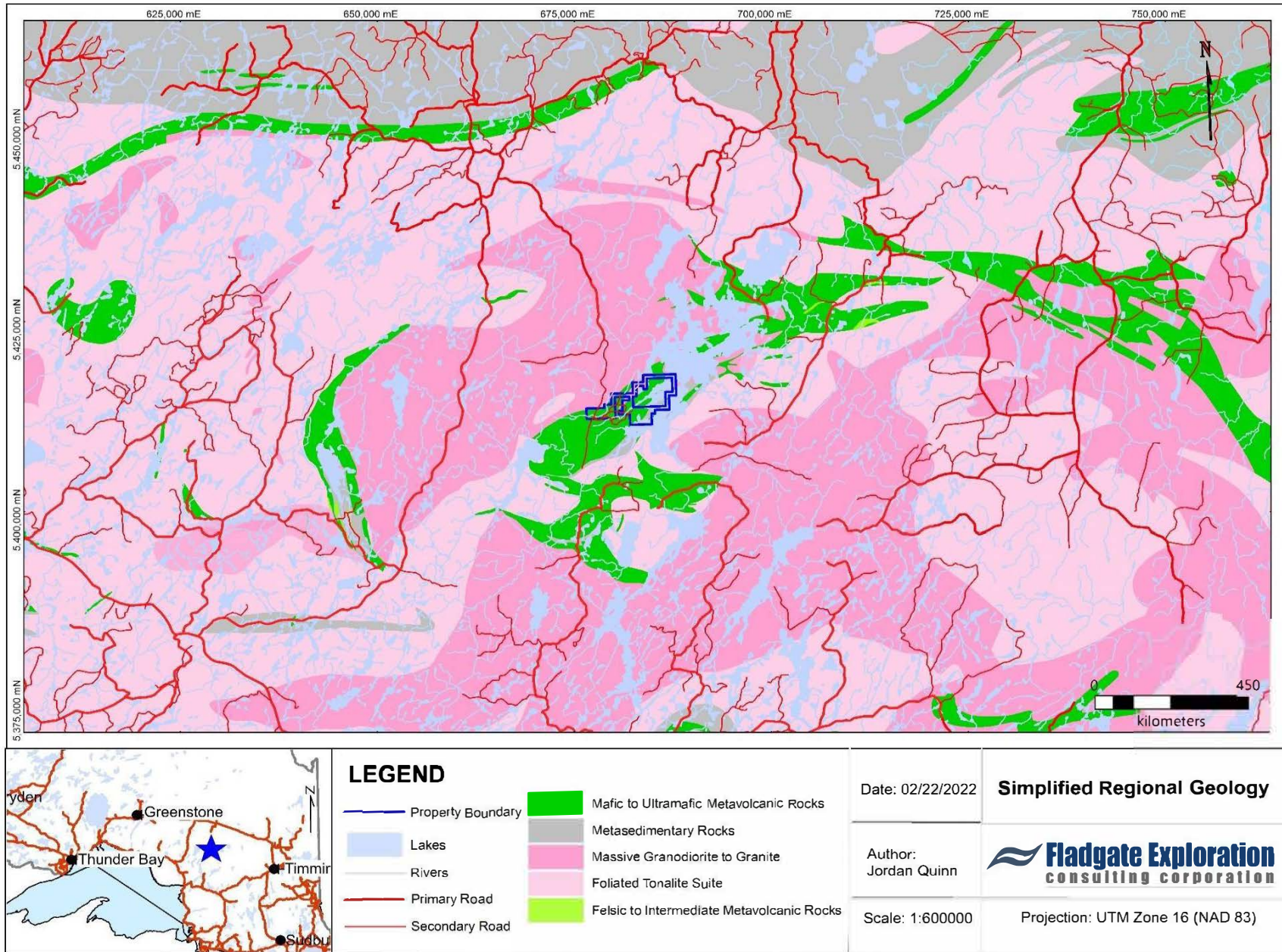


Figure 7-1 - Regional Geology of Northwestern Ontario

7.2 Local Geology – Lizar Property

From Lashbrook (2005), the Lizar township is underlain by the Woman River Metasedimentary package – Algoma Type iron formation-magnetite, jasper, hematite, chert and sulphide – which is conformably overlain by the pillowed to massive Fe-Mg tholeiites of the October Lake Formation. Felsic and mafic dykes cut through all units and are presumed to be extensive on the property.

On a property scale the Lizar Property is underlain by a northeast-trending and vertical to sub-vertical dipping suite of mafic metavolcanic flows. The folded metavolcanics have been strongly sheared along the northeast trend and a feldspar porphyry dyke in turn has intruded the shear zone. Lamprophyre dykes are also present within this structural corridor.

Mineralization varies from sericitization of the granite and pyritization to extensive silicification with numerous parallel stringers of quartz, 0.5 to 6.0 inches in width. Numerous showings of free gold have been found in the quartz stringers, but altered granite in the shear appears to be barren. Likewise, all the gold appears to be free, with little or none in the sulphides. In addition to pyrite, chalcopyrite, galena and molybdenite are associated with the gold mineralization.

A detailed property geology map can be found in **Figure 7-2**.

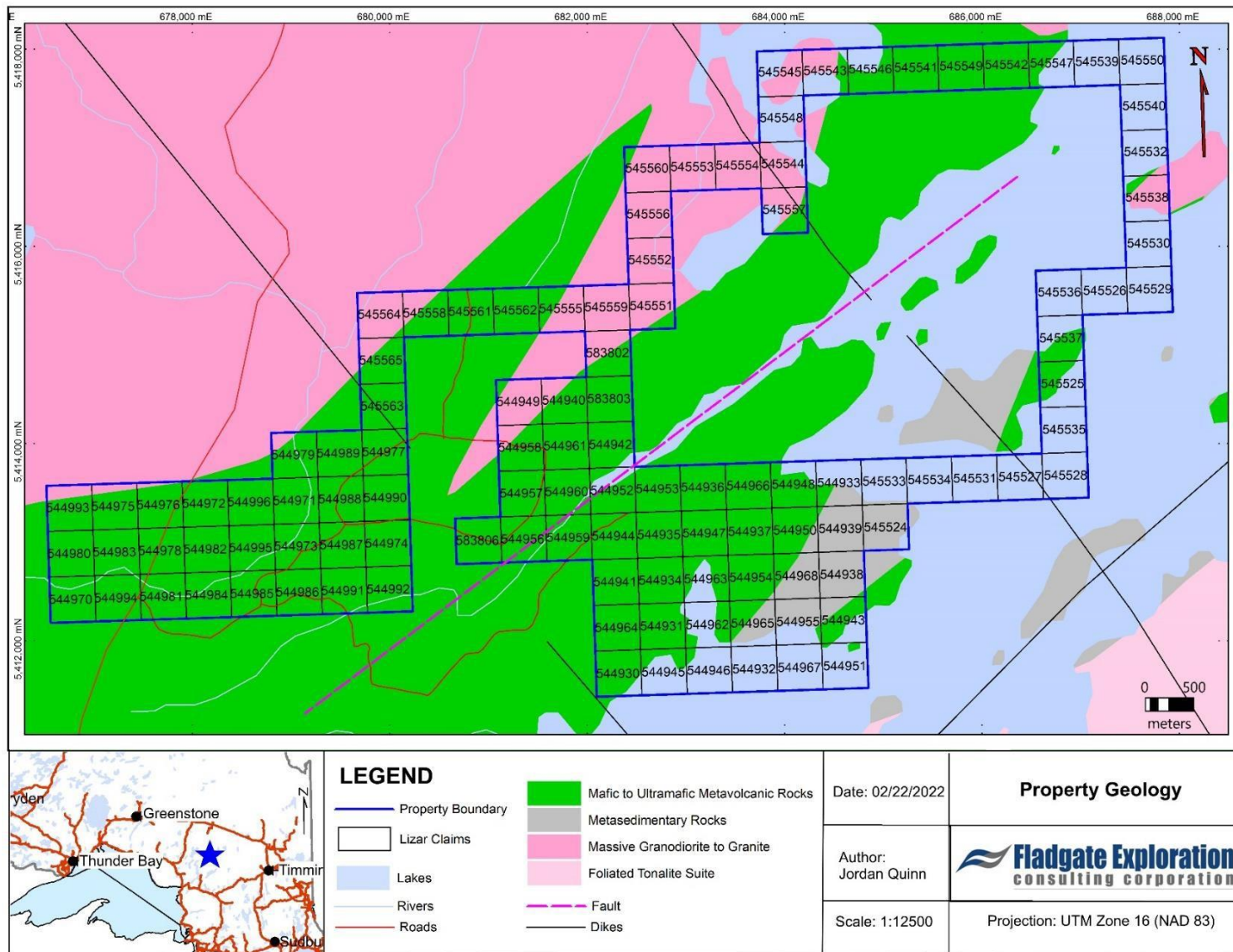


Figure 7-2 - Lizar Property Geology

8 History of Exploration on the Property

- 1930's Hiawatha Gold Mine, located northeast of the current Lizar property was discovered and subsequently produced 1931 tons of ore grading 0.074 opt. gold, J. E. Stenabough discovered several gold-polymetallic occurrences, in addition the Kalibak prospects were found by person(s) unknown, Hollinger Gold Mines worked the Charpentier Showings.
- 1950's Neoscope Explorations Limited completed an airborne magnetic and scintillometer survey over Kabinakagami area and outlined a massive magnetite body hosted by a pyroxenite approximately 4 kms. northeast of the Hiawatha Mine (Perkin Occurrence).
- 1960's Primrock Mining and Exploration dewatered the Hiawatha gold mine and drilled two exploration holes.
- 1960's Rio Tinto and Nickel Rim Mines Ltd. carried out limited exploration programs in and around the Lizar Property.
- 1980's The area around the Lizar Property was worked by numerous companies including, Sveinson Way Minerals Services Inc, Pryme Energy, Tundra Gold Mines, Noranda Exploration and Golden Trio resources amongst others. Very little diamond drilling was carried out by any of these companies.
- 1990's Two local prospector's, Doug Kakeeway and Lloyd Halverston prospected the area and came up with several new gold showings in altered, pyritic felsic rocks.
- 2001 The property is optioned by Freewest Resources Ltd.
Freewest establishes two grids (Nameigos and Patent Grids), to conduct a Max-Min survey and I.P. Resistivity.

Freewest carries out soil surveys, prospecting and trenching, successfully discovers eight new gold occurrences.
- 2002 Teck Cominco enters a joint venture agreement with Freewest from 2002 to 2004.

Teck Cominco Limited flies a GEOTEM airborne survey over the property and surrounding area outlining several priority EM anomalies.

Teck Cominco conducts ground UTEM surveys over selected airborne EM targets and geological maps and prospects property.
- 2004 Teck Cominco extends I.P. Resistivity coverage on the Patent Grid.

Teck Cominco Drills 1514 metres over 8 holes. Two holes LIZ-01 and 02 test priority EM conductors in northern portion of property while the remaining 6 holes (LIZ-03-08) were collared to test I.P. Conductors on the southern extension of the Patent Grid. Highlights

included the discovery of a potential new magmatic Ni, Cu, PGM target in hole LIZ-01-01 which intersected a 3.0 metre interval at the base of a peridotite sill that ran 0.54% nickel, 1.26 gpt palladium and 0.23 gpt platinum

- 2007 Freewest in 2007 drills 15 holes totalling 2160 metres. Twelve holes (LIZ-07-01 to 12) were drilled to test various gold targets on the Patent Grid, while three holes (LIZ-07-12 to 15) were collared to test the volcanogenic massive sulphide target on the Nameigos Grid. All drill holes located on the Patent Grid encountered significant zones of alteration and pyrite mineralization, while anomalous gold values were commonly encountered the best values obtained were 1.31 gpt/1.0 metres in hole LIZ-07-06 and 1.67 gpt/0.8 metres in holes LIZ-07-09. All three holes drilled on the Nameigos Target interested minor amounts of chalcopyrite and sphalerite. Of note was that hole LIZ-07-15 encountering a chloritic stockwork alteration zone that contained 5.8 metres grading 1596 ppm copper and 996 ppm zinc.
- 2011 Rencore Resources contracts Geotech Ltd. to carry out at a Helicopter borne VTEM and Aeromagnetic Geophysical survey. An interpretation of the data revealed 18 areas of interest.
(Mackie, 2011)
Rencore conducts a reconnaissance prospecting and geological mapping was conducted over select areas of the Lizar property identified from the VTEM survey. It was determined that the strong conductive trend located in the northwestern portion of the property (EM 14 and15) offer the best potential to host volcanogenic massive sulphide style mineralization. Outcrops and hand dug trenches along Anomaly 15 returned consistently anomalous Zn, +/- Cu, and Au values over 900 metre strike length. Best values obtained were 1.03% zinc, 0.26% copper and 1.43 gpt gold
- 2016 Dan Patrie Exploration Ltd. is contracted to preform a field magnetic survey for Johnathan Camilleri. A total of 121.5 kilometers was surveyed over 5 claims.
- 2018 Brent Patrie conducted a Gradient IP on the Lizar property with 23 lines of variable lengths being surveyed for a total of 29.1 line-km. Interpretation of the IP results highlighted two trends;
(Winter, 2018)
- (1) the main NE geological trend in the are with the rock units being folded mafic to intermediate to felsic metavolcanics.
 - (2) The NNW trend is one of later cross faulting with some of these structures hosting Proterozoic age diabase dykes.

9 Current Program

In the fall of 2021, reconnaissance mapping and sample collection program was conducted on the Lizar property near White River, Ontario, Canada. From November 7, 2021 to November 8, 2021 Project Geologists Alex Wytiahlowsky and Jordan Quinn of Fladgate Exploration carried out the mapping and sample collection program. began prospecting and collecting grab samples. Full personnel logs can be found in **Table 9-1**. Data including lithology, structure, veining, and overall rock description were taken for each rock sample where applicable. Location of all grab samples were recorded, and a description of surrounding vegetation were noted. Maps of all traverses can be found in **Figure 11-1**, **Figure 11-2**, and **Figure 11-3**. Sample descriptions can be found in Error! Reference source not found. and **Table 11-1** with photos available in Appendix I.

Table 9-1 – Personnel Log

Name	Working Title	Responsibilities	Start Date	End Date
Alex Wytiahlowsky	Project Geologist	program mobilization, traverse planning, sample collection	November 7, 2021	November 8, 2021
Jordan Quinn	Project Geologist	program mobilization, traverse planning, sample collection	November 7, 2021	November 8, 2021
Alex Hughes	Geologist	map creation, report writing	February 21, 2022	February 25, 2022

A total of twenty-two locations were visited wherein data including lithology, structure, veining, alteration, and mineralization was recorded where applicable. Thirteen of those locations involved sample collection for later whole-rock geochemistry and petrographic analysis. These samples were submitted to Actlabs in Thunder Bay, Ontario on July 15, 2021.

The 2021 fall reconnaissance mapping program was undertaken with the following goals in mind; conduct reconnaissance of anomalies outlined during previous geophysical surveys, follow up on potential mineralized hosted structures, and to start preliminary mapping of the property geology.

10 Methods and Approach

Using a rock hammer, grab samples were collected by breaking off a representative portion of the exposed outcrop containing minimal veining, weathering, and alteration. Sample tag numbers were recorded from the booklet and placed onto the sample bag, with the sample tag itself being placed into the bag. The collected sample was then placed into the sample bag, along with the corresponding tag. A picture of the sample and outcrop where the sample was taken with both a reference scale and GPS coordinates. Data such as lithology, structural measurements and rock descriptions was collected at each sample site. Using flagging tape, the location of the sample was marked on the ground and in a tree above.

Samples designated for whole-rock geochemistry and petrographic analysis were stored at the Fladgate owned warehouse located in Thunder Bay, Ontario.

11 Results

A total of 22 mapping points were observed from the Lizar Property during the 2021 mapping program. Of the 22 samples, 13 samples were designated for whole-rock geochemistry. Sample coordinates, along with identifying features can be found in Error! Reference source not found. and **Table 11-1**. Maps of all traverses can be found in **Figure 11-1**, **Figure 11-2**, and **Figure 11-3**.

Waypoint ID	Easting	Northing	Elevation	Lithology	Vegetation	Description
57	681440.5	5413253.6	311.545441	Pegmatite	Black spruce, Alder,	Medium grained white-grey to pink pegmatitic quartz feldspar porphyry. Pervasive conjugate fracturing with cmscale wide blue-grey quartz infilling. Massive coarse-grained white-grey quartz vein along margin of sample with localized oxidation at contact with porphyry. Phaneritic sheet silicate locally
58	681313.8	5413138.7	309.383362	Mafic volcanic	Black spruce, Alder, Larch	Massive, equigranular groundmass
59	681284.2	5413105.5	305.150116	Mafic volcanic	Black spruce, Alder	Fine-grained groundmass with pervasive porphyroblastic white quartz. Minor attenuation noted in quartz porphyroblasts.
60	681280.3	5413105.2	308.281952	Granodiorite	Black spruce, Alder	Fine-grained, grey, semi-massive groundmass with pervasive medium-grained amphibole phenocrysts.
61	681309.3	5413166.1	304.18222	Feldspar porphyry	Black spruce, Alder, Larch	Red-brown colour. Pegmatitic texture. 3-5cm wide white quartz veining cutting through sample.
62	681457.3	5413263.2	310.820221	Feldspar porphyry	Black spruce, Alder	Massive. Pitted surface. Significant weathering of sample.
63	681467	5413285	313.508575	Mafic volcanic	Black spruce, Alder	Gabbro. Coarse- to medium-grained. Euhedral plagioclase laths with interstitial pyroxene throughout. Massive texture.
64	681492.2	5413276.9	310.76181	Mafic volcanic	Black spruce, Alder	Very fine- to fine-grained groundmass. White quartz veinlet throughout with folding and attenuation locally. Minor oxidation seen at mafic volcanic-quartz veinlet contacts.
66	681574.8	5413339.1	309.257263	Breccia	Black spruce, Alder	Brecciated fragments of fine-grained mafic volcanics with poorly defined gneissic banding and weakly hematized fine-grained porphyry.
72	680820.6	5413063.2	322.277191	Granodiorite	Black spruce, Alder, Larch	Weak lamination seen in fine grained biotite laths. Groundmass is predominantly white-grey feldspar.
73	680837.4	5413072.5	319.919495	Quartz vein	Black spruce, Alder	Diabase dyke swarm with massive to semi-massive quartz flooding. Quartz is white to pink in colour with an equigranular groundmass.

Waypoint ID	Easting	Northing	Elevation	Lithology	Vegetation	Description
74	679525.6	5413540.1	313.597168	Mafic volcanic	Black spruce, Alder, Larch	Diorite. Massive. Medium- to large-grained porphyroblastic amphibole and pyroxene.
77	681084.4	5412848.4	318.783783	Mafic volcanic	Black spruce, Alder, Larch	Pillowed. Sheared dilatational quartz veinlets. Quartz feldspar porphyry infill seen in dilation fractures.

Table 11-1 – Structure Measurement Locations

Waypoint ID	Easting	Northing	Measured Structure	Strike	Dip	Notes
58	681313.8473	5413138.745	Quartz vein	135		Cm scale quartz stringers locally with sporadic gossan staining.
59	681284.1557	5413105.511	Contact	90		Contact between feldspar porphyry and mafic volcanic. This contact obliquely cross-cuts NE trending foliation of mafic volcanic.
61	681309.2844	5413166.071	Fracture	112		Extensional dilation fractures indicating sinistral movement.
63	681466.9784	5413285.025	Jointing	45		
64	681492.2134	5413276.948	Quartz vein	90		Boudinaged quartz veining. Sinistral movement indicators.
65	681570.0384	5413338.338	Jointing	0	88	
67	681153.4648	5412962.073	Quartz vein	0		Massive to semi-massive quartz veining
68	681125.5236	5412940.472	Dyke	90		5cm mafic volcanic dyke cutting perpendicular to foliation in porphyry
69	679291.1114	5412994.38	Quartz vein	330		5-10 cm extensional dilation quartz veining with sinistral movement. Strikes NNW
70	678693.4989	5412420.568	Quartz vein	315		Cm scale white quartz veining in feldspar porphyry. Minor faulting with sinistral offset.
71	680816.6469	5413080.549	Jointing	90		
74	679525.5927	5413540.106	Dyke	45		10 cm felsic dyke hosted in coarse-grained mafic volcanic.
75	679542.3394	5413590.045	Foliation	112		Pillowed mafic volcanics. Dominant fabric trends SES
76	681169.8687	5413029.027	Dyke	90		Meter scale felsic dyke hosted in fine-grained mafic volcanic
77	681084.3736	5412848.448	Fracture	350		En echelon quartz veining. S-surface strikes E. C-surface strikes N-S
83	680799.1433	5415212.748	Foliation	90		

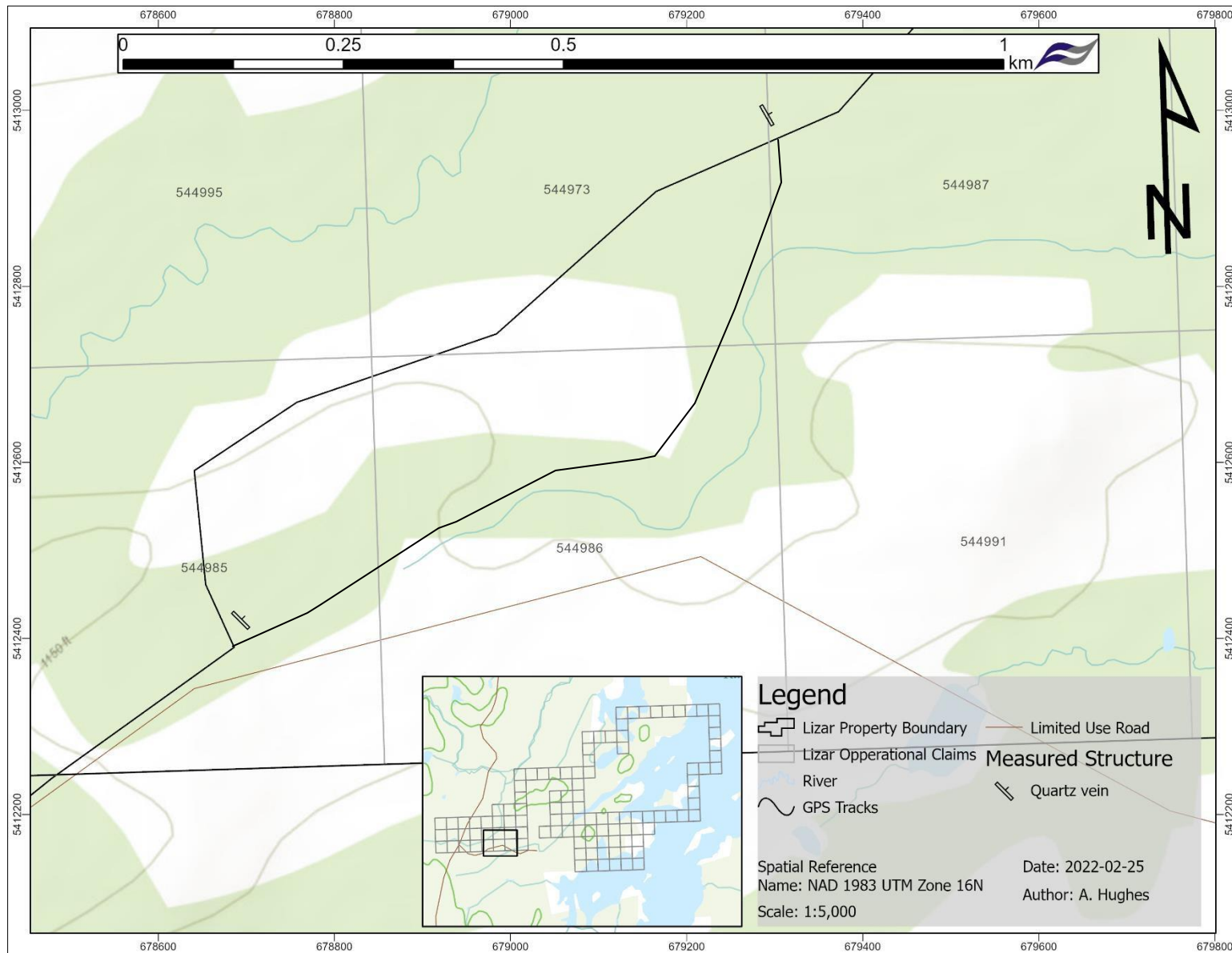


Figure 11-1 – Sample Location and Travers Map

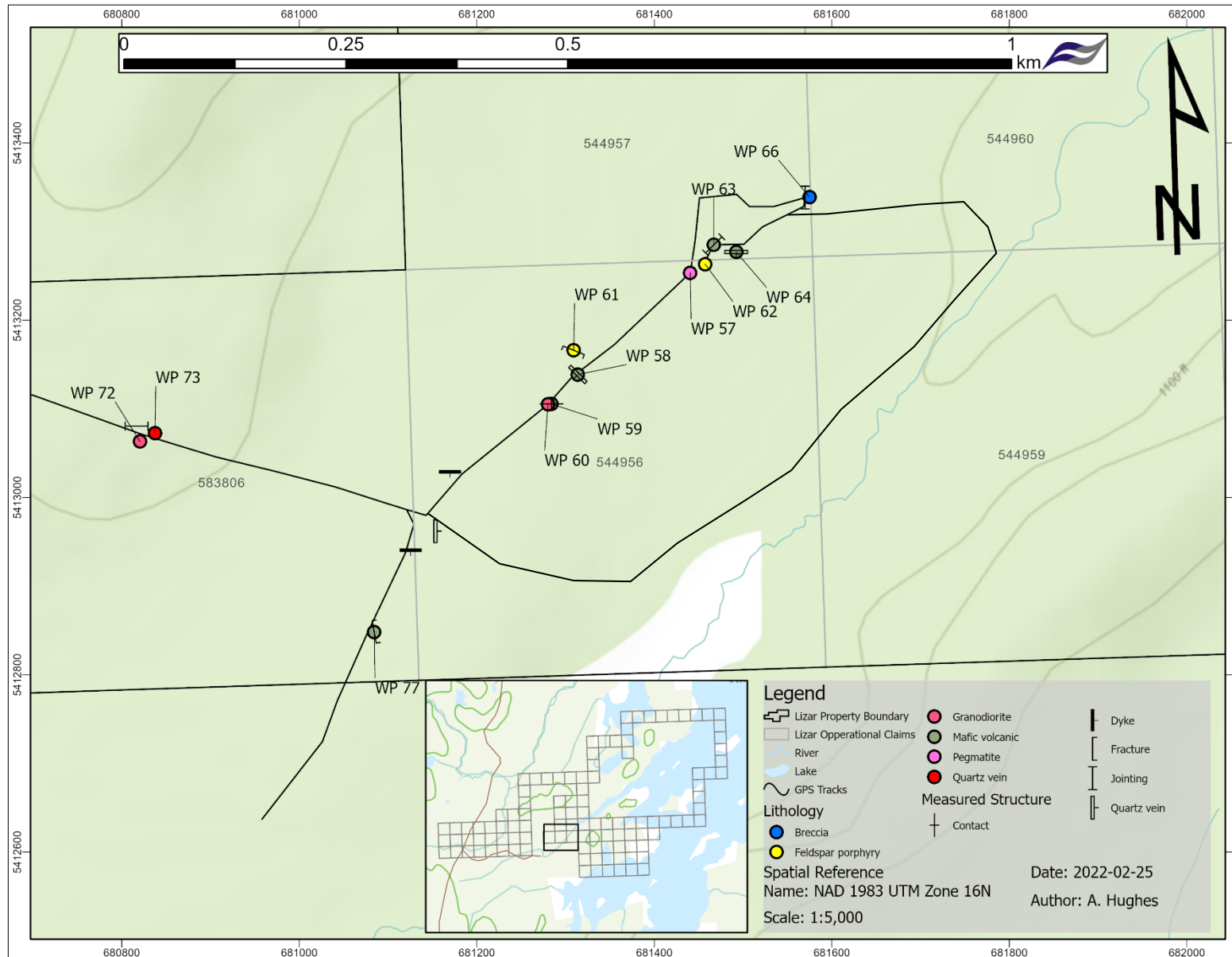


Figure 11-2 – Sample Location and Travers Map

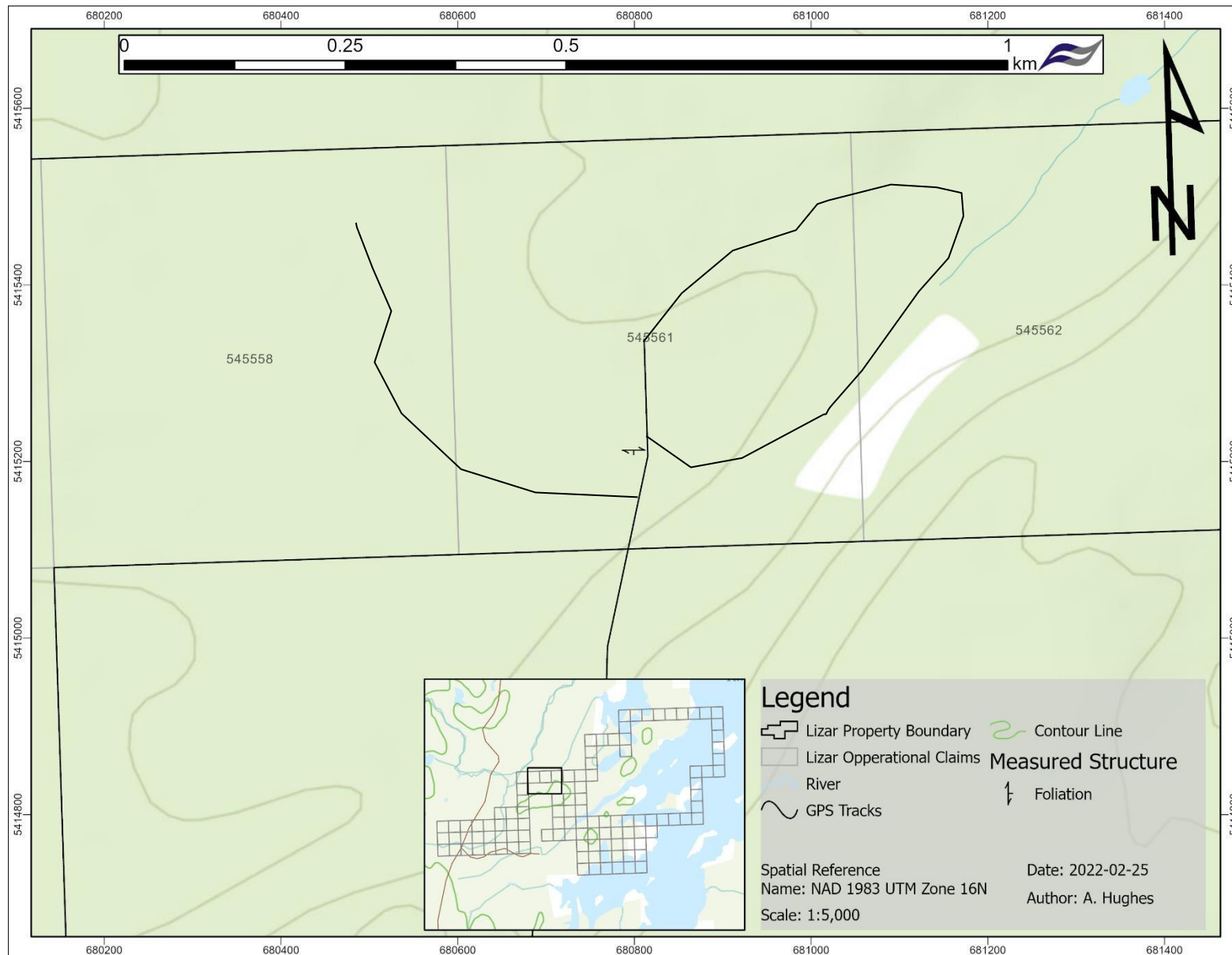


Figure 11-3 – Sample Location and Travers Ma

12 Conclusion and Recommendations

This preliminary reconnaissance mapping and sample collection was successful in outlining the initial stages of overall structures and lithological trends highlighted in previous work. With pending geochemical and petrography work it is recommended that a detailed magnetic survey be conducted to highlight specific areas requiring ground truthing.

13 References

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- Lashbrook, R.L. (2005) Line cutting magnetic survey report Heenan and Marion townships.
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14 Statement of Qualification

Alexander Hughes, HB.Sc., G.I.T.

Fladgate Exploration Consulting Corporation
278 Bay St, Suite 101
Thunder Bay, Ontario
Canada
Telephone: (807) 345.5380
Email: alex.hughes@fladgateexploration.com

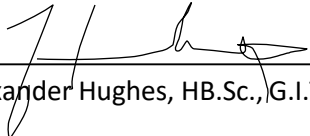
CERTIFICATE OF THE AUTHOR

I, **Alexander Hughes**, do hereby certify that:

1. I am an employee of Fladgate Exploration Consulting Corporation, the geological consulting firm tasked with this report.
2. I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO #10625).
3. I am a graduate of Lakehead University (Hons. B.Sc., 2017).
4. I have practiced geology for 7 years in a variety of settings, mostly in Northwestern Ontario, Canada. I have specific experience in Archean lode gold deposits in Ontario, mostly working as both a production and exploration geologist at various gold mines throughout Ontario.
5. I have no previous involvement with the property that forms the subject of this Technical Report.
6. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.
7. I consent to the filing of this Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their website accessible by the public.

Effective Date: February, 2022

Date of signing: February, 2022



Alexander Hughes, HB.Sc., G.I.T. (APGO #10625)

15 Appendix I – Reconnaissance Program Expenditures

Table 15-1 – Program Cost Breakdown

	Date From (yyyy-mm-dd)	Date To (yyyy-mm-dd)	Item	Rate	Per Unit	Units	Subtotal (CAD)
Data Collection	2021-11-07	2021-11-08	Truck Rental	\$100	day	2	\$200
			Mileage	\$0.70	km	520	\$364
			Project Geologist	\$700	day	2	\$1,400
			Assistant	\$500	day	2	\$1,000
			Room & Board	\$225	day	4	\$900
			Mob/Demob	\$1,000		2	\$2,000
						<i>subtotal</i>	\$5,864
Report			report writing	\$700	day	5	\$3,500
						<i>subtotal</i>	\$3,500
						TOTAL	\$9,364

Table 15-2 – Cost Per Claim

Claim Number	Mapping Locations Per Claim	Travers Kilometers Per Claim	% Worked Per Claim	Cost Per Claim
544956	7	0.94	0.17	\$1,627
544957	6	0.3	0.14	\$1,291
544959		0.4	0.01	\$82
544960		0.4	0.01	\$82
544973	1	0.66	0.04	\$340
544974		15	0.33	\$3,074
544977		0.5	0.01	\$102
544985	1	1.09	0.05	\$428
544986		0.86	0.02	\$176
544987		0.45	0.01	\$92
544988		0.52	0.01	\$107
544989		0.16	0.00	\$33
544990		0.3	0.01	\$61
545558		0.24	0.01	\$49
545561	1	0.83	0.04	\$375
545562		0.35	0.01	\$72
583806	6	0.7	0.15	\$1,373
TOTALS	22	23.7	1	\$9,364

16 Appendix II – Site Photos



Figure 16-1 – Waypoint 58 outcrop photo



Figure 16-2 – Waypoint 58 close-up photo



Figure 16-3 – Waypoint 59 outcrop photo



Figure 16-4 – Waypoint 59 close-up photo



Figure 16-5 – Waypoint 61 outcrop photo



Figure 16-6 – Waypoint 62 close-up photo



Figure 16-7 – Waypoint 63 outcrop photo



Figure 16-8 – Waypoint 63 close-up photo



Figure 16-9 – Waypoint 64 outcrop photo



Figure 16-10 – Waypoint 64 close-up photo



Figure 16-11 – Waypoint 65 outcrop photo



Figure 16-12 – Waypoint 65 outcrop photo



Figure 16-13 – Waypoint 66 close-up photo



Figure 16-14 – Waypoint 66 close-up photo



Figure 16-15 – Waypoint 67 outcrop photo



Figure 16-16 – Waypoint 68 outcrop photo



Figure 16-17 – Waypoint 68 outcrop photo



Figure 16-18 – Waypoint 68 outcrop photo



Figure 16-19 – Waypoint 68 outcrop photo



Figure 16-20 – Waypoint 71 close-up photo



Figure 16-21 – Waypoint 72 photo



Figure 16-22 – Waypoint 73 outcrop photo



Figure 16-23 – Waypoint 75 outcrop photo



Figure 16-24 – Waypoint 75 outcrop photo



Figure 16-25 – Waypoint 75 outcrop photo



Figure 16-26 – Waypoint 75 outcrop photo

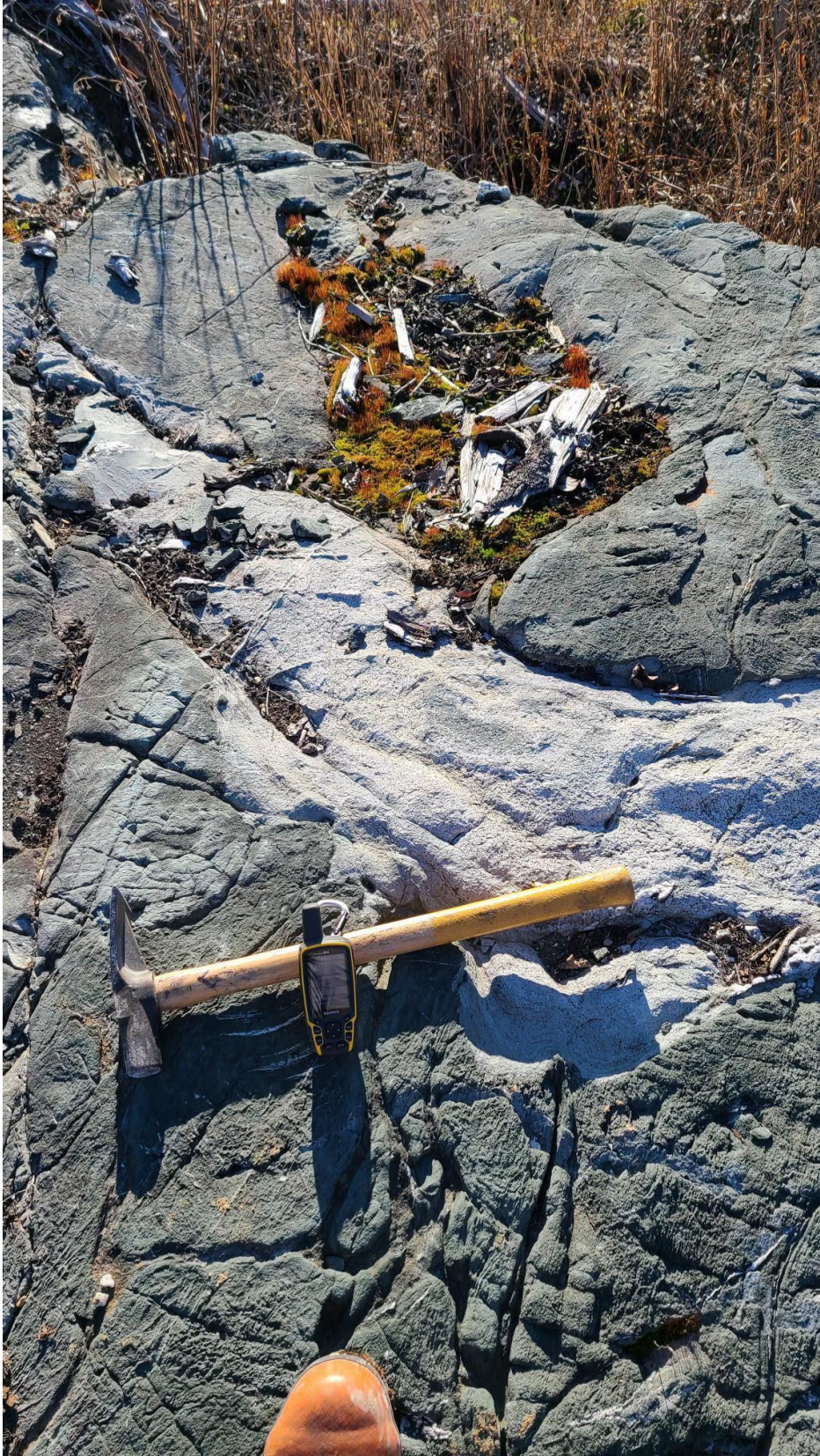


Figure 16-27 – Waypoint 75 outcrop photo



Figure 16-28 – Waypoint 75 outcrop photo