

We are committed to providing [accessible customer service](#).

If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).

Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).

REPORT ON EXPLORATION ACTIVITIES

July 2022

McNISH PROJECT



GEOGRAPHIC TOWNSHIPS OF McNISH & MACBETH
SUDBURY MINING DIVISION
TERRITORIAL DISTRICT OF SUDBURY
PROVINCE OF ONTARIO

BRYAN DORLAND
July 27th, 2022

TABLE OF CONTENTS

EXECUTIVE SUMMARY

1.0 PROJECT INFORMATION	3
1.1 LOCATION AND ACCESS.....	3
1.2 TOPOGRAPHY AND VEGETATION.....	5
1.3 TENURE DETAILS.....	5
2.0 PREVIOUS WORK	6
3.0 GEOLOGY	6
3.1 REGIONAL GEOLOGY.....	6
3.2 PROPERTY GEOLOGY.....	6
3.3 EXPLORATION TARGET.....	7
4.0 ADJACENT PROPERTIES	7
5.0 CURRENT EXPLORATION ACTIVITIES COVERED BY REPORT	7
5.1 DETAILS.....	7
5.2 RESULTS.....	8
6.0 CONCLUSIONS	10
7.0 REFERENCES	10
8.0 CERTIFICATE	10

LIST OF FIGURES

Figure 1 – Project Location.....	3
Figure 2 –Claim Map.....	4

LIST OF PHOTOS

Photo 1.....	cover page
Photo 2.....	8
Photo 3.....	9
Photo 4.....	9

LIST OF TABLES

Table 1.....	5
--------------	---

APPENDICES

Appendix 1 – Geological Compilation Plan.....	back pocket
Appendix 2 – Plan of 2022 Work Areas.....	back pocket
Appendix 3 – Rock Sample Details.....	back pocket

EXECUTIVE SUMMARY

The McNish project is located in the Southern Province of the Canadian Shield in northern Ontario. The claims, totaling 442.40 Hectares in area, were acquired by the writer via map staking to evaluate the potential for base and precious metal deposits. Several exploration campaigns by a number of individuals and organisations over the years have uncovered numerous copper, nickel, cobalt, zinc, lead and minor gold/precious metal occurrences some of which with economic grades. A limited prospecting program has been carried out and forms the basis of this report. Work performed to date has been successful in locating previous showings and reported mineralization.

1.0 PROJECT INFORMATION

1.1 LOCATION AND ACCESS

The McNish Project is located in the annulled Geographic Townships McNish and MacBeth in the territorial District of Sudbury (Sudbury Mining Division) in the Province of Ontario. 1:50 000 scale NTS map sheet 041116 encompasses the entirety of the project. The property is located in a remote area approximately 58 kilometres north east of the City of Greater Sudbury downtown core. Travel time to the property is approximately 3.5 hours on way from the Sudbury area depending on road conditions and choice of route.

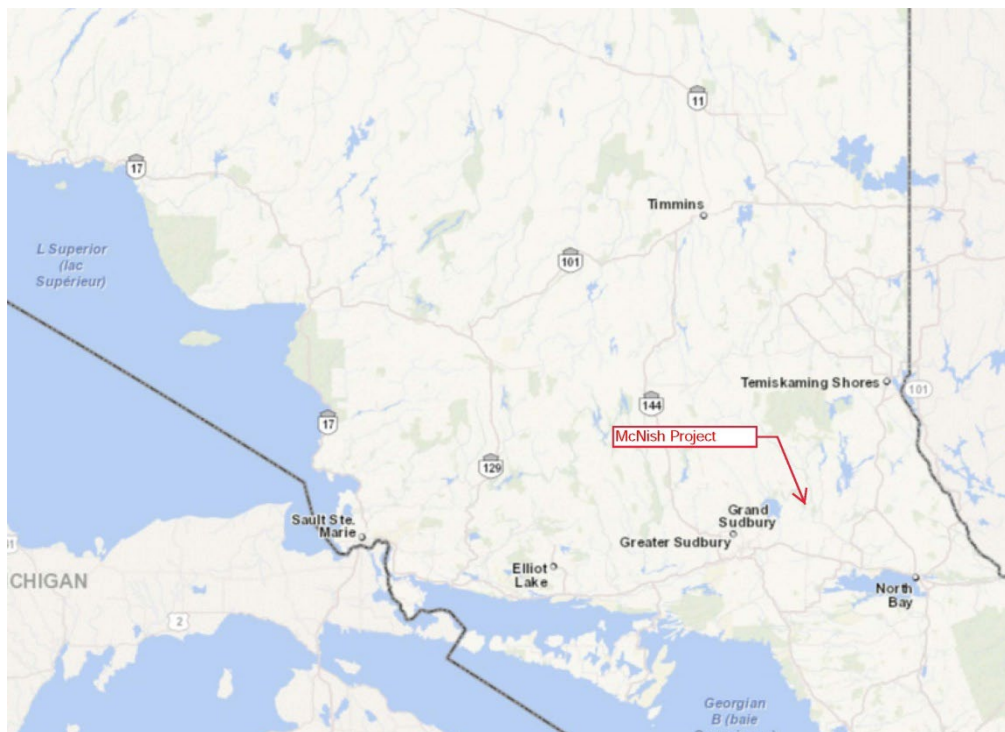


Figure 1 – Project Location

The project can be accessed from the west via the old drill road which leads to Maskinonge Lake or on foot from the end of a network forest access roads which terminate approximately 800 metres from the south east corner of the property.

The Maskinonge Lake route requires boat access from the lodge located at the south west end of the Lake. Parking, boat launch and accommodations are available at the lodge from spring to fall. The lodge can be accessed by approximately 40 kilometres of maintained paved and gravel roads from the town of Hagar located on Highway 17, 50 kilometres east of Sudbury.

Alternatively, a network of old logging roads beginning at the former Canadian National Railway siding of “Washagami” can be used to gain access to within approximately 800 metres of the south east corner of the property. This road is very rough and slow going. Some sections require four wheel drive and the last couple kilometres require ATVs as the road has been dug up by the Ministry of Natural Resources and Forestry to restrict access. Although in rough shape, this former road could be upgraded fairly easily if heavy equipment were required for advanced exploration. A short section of new road could potentially be built to connect with the existing old drill road running through the property.

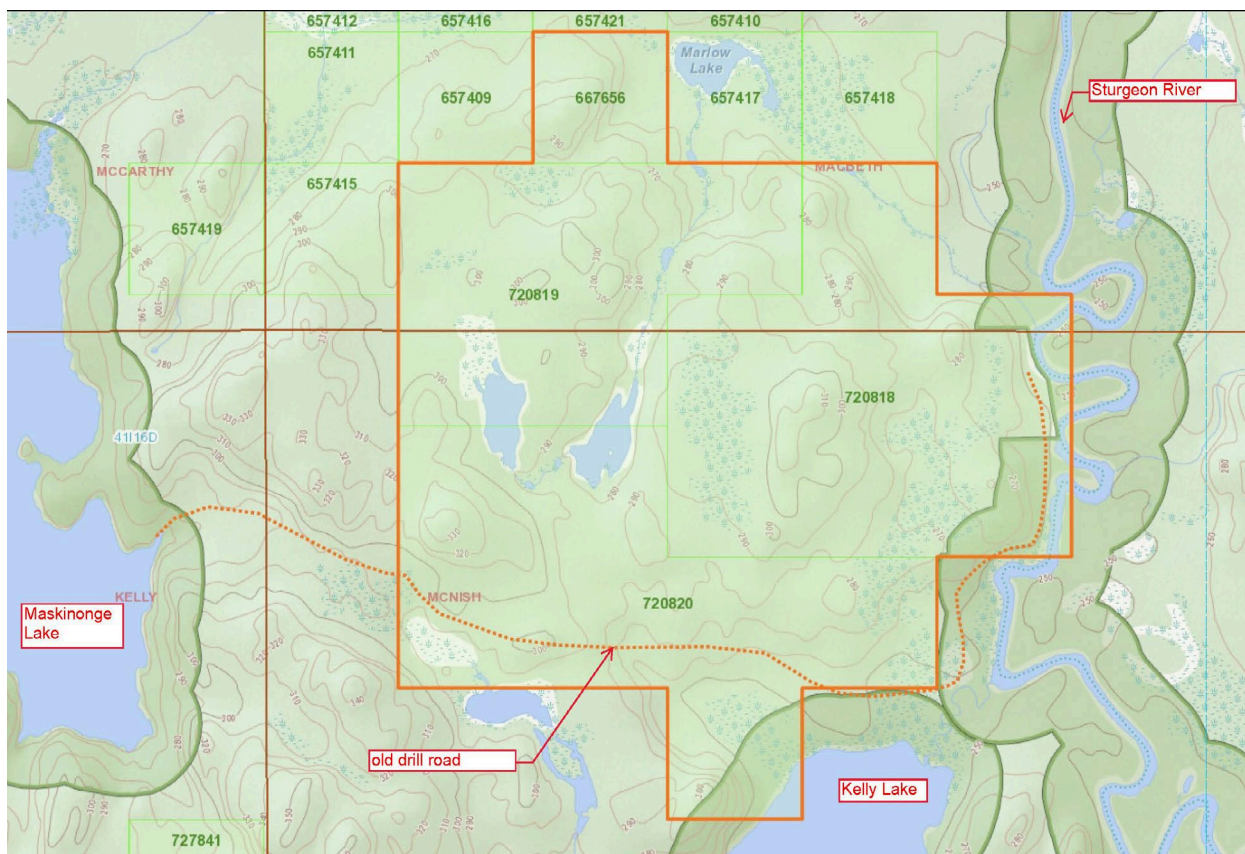


Figure 2 – Claim Map

1.2 TOPOGRAPHY AND VEGETATION

The McNish Project is located in the boreal forest of northern Ontario in the Canadian shield. Topography generally consist of rugged and rolling bedrock hills with little to no overburden interlaced with poorly drained lowlands and lakes as well as valleys filled with glacial debris. The average elevation in and around the project area is approximately 280 metres and relief about 30 metres.

The project area lies within the Great Lakes drainage basin and is subsequently drained south by the Sturgeon River and its tributaries. The Sturgeon river is said to occupy the drainage channel of a formerly much larger river which has created the floodplain surrounding the existing river during the melting phase of the last continental ice sheet (Meyn, 1977)

Timber and pulpwood has been harvested in the area since the early 1900's via the Sturgeon River. Forested areas generally consist of second growth stands of jack pine, spruce white birch and poplar with cedar, alder and tamarack in the low lying, poorly drained areas. Some mature white and red pine stands can be found in inaccessible areas.

1.3 TENURE DETAILS

The McNish Project consists of (1) unpatented 1-unit mining claim and (3) unpatented multi-unit claims with a total area of approximately 442.40 hectares (20 units total). The property was acquired via map staking.

The claims are registered in the name of the writer and require \$8,000 of annual assessment work to keep in good standing. See Table 1 for specific claim numbers and details.

CLAIM DETAILS								
PROJECT: McNish								
CLAIM No.	HOLDER	UNITS	AREA (ha)	EMCUMBERED	WORK REQD.	DUE DATE	WORK APPLIED	RESERVE
667656	Bryan Dorland	1	22.12	no	\$400.00	July 23, 2023	\$0.00	\$0.00
720819	Bryan Dorland	5	110.6	no	\$2,000.00	July 27, 2022	\$0.00	\$0.00
720820	Bryan Dorland	7	154.84	no	\$2,800.00	July 27, 2022	\$0.00	\$0.00
720818	Bryan Dorland	7	154.84	no	\$2,800.00	April 14, 2024	\$0.00	\$0.00
TOTAL		20	442.4		\$8,000.00		\$0.00	\$0.00

Table 1 – Mining Claim details

2.0 PREVIOUS WORK

The McNish Project area has seen a number of government sponsored geological surveys and privately funded mineral exploration programs over the years. Mineral occurrences of copper, nickel, gold, zinc and lead were first discovered in the area by prospector George Waltenbury in the 1930's.

Below is a summary of previous assessment work or other work carried out over the McNish Project and surrounding area on file at the Geoscience Assessment Office and AFRI database.

1930's - George Waltenbury. – prospecting, mining camp construction, pitting, trenching, shaft sinking (see Photo 1 – cover page), bulk sample (from numerous reports, no records on file at the Sudbury geoscience assessment office)

1956-1959 – Palston Mining & Development Company – prospecting, line cutting, pitting, trenching, EM and gravity surveys, DDH(3 holes) - (AFRI No.'s 41116SW0022, 41116SW0032, 41116SW0253)

1971-1976 – Jerome Explorations Limited. – prospecting, line cutting, pitting, trenching, magnetic and VLF surveys, DDH (24 holes) - (AFRI No.'s 41116SW0023, 41116SW0252, 41116SW0254, 41116SW9358)

1990-1993 – P.A.R. Brown. – prospecting, line cutting, magnetic, VLF and SP surveys - (AFRI No.'s 41116SW0014)

1995-1998 – Flag Resources /Golden Briar - prospecting, line cutting, pitting, trenching, gravity, magnetic and VLF surveys, DDH (71 holes) - (AFRI No.'s 41116SW0001, 41116SW0019, 41116SW0023, 41116SW0034, 41116SW2007, 41116SW2008, 41116SW2002)

The above noted work has led to the discovery of over 20 mineralised showings (Cu+Ni+Co+/-Au,Ag & Cu+Pb+Zn+/-Au,Ag) scattered on or in close proximity to the subject claims. A good description of the individual showings is described in *Pemberton, 1956 (pgs. 7 to 10)* and *Henning, 1973 (pgs. 7 to 13)*. The positions of these showings have been compiled using reference data located in the field and further shown on Appendix 1.

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The McNish Project is located in the south eastern part of the Southern Province of the Canadian Shield. The general area is underlain by Early Precambrian metavolcanics, metasediments, granitic rocks and mafic intrusive rocks which in turn are unconformably overlain by Middle Precambrian rocks of the Huronian Supergroup (Dressler, 1979). All rocks units are intruded by Nipissing Diabase sills and younger mafic intrusive rocks.

3.2 PROPERTY GEOLOGY

The McNish Project is located on the western edge of an Early Precambrian (Archean) basement window within younger rocks of the Huronian Supergroup.

Early Precambrian rocks consist of mafic metavolcanic and metasediments, primarily greywacke and mudstone. Several N-W trending diabase dykes, which intrude the Early Precambrian rocks, are also present.

Rocks of the Huronian Supergroup occupy the majority of the property. The Huronian metasediments include greywacke, arkose and conglomerates of the Gowganda Formation which form the upper part of the Cobalt Group. It is the writer's opinion that more Huronian rocks and less Early Precambrian rocks are present than typically depicted on Maps 2425 and 2386 which accompany *Meyn, 1977* and *Dressler, 1979*.

Interestingly, an abundance of Sudbury type Breccia is noted on several mapping compilations and quite frequently referenced in the numerous diamond drill logs for holes drilled in the 1990's.

3.3 EXPLORATION TARGETS

The primary exploration target for the McNish Project is base metal VMS deposits in the Archean metavolcanics and metasediments as well as IOCG type hydrothermal deposits possibly related to the Temagami Magnetic anomaly.

A secondary exploration target for the McNish Project is for Cu-Ni-Co-PGM style mineralization in the early and late mafic intrusions within the Early Precambrian metavolcanics/metasedimentary sequences. The previously reported anomalous Ni-Co values in past showings, abundance of Sudbury Breccia and recent progressive exploration ideas relating to newly discovered, Sudbury related, footwall offset dyke environments far beyond the Sudbury Igneous Complex (*Inventus, 2019*) is very encouraging.

4.0 ADJACENT PROPERTIES

There are currently several single unit mining claims registered to Randy Stewart abutting the northerly limit of the McNish Project. Inventus Mining holds a large land package to the north of the McNish Project as part of their Sudbury 2.0 project.

5.0 CURRENT EXPLORATION ACTIVITIES COVERED BY REPORT

5.1 DETAILS

Exploration activities carried out in July 2022 form the basis of this report. These activities include research and compilation of all previous exploration activities carried out on or in the immediate project area, prospecting and rock sampling.

Research and data compilation was carried out in order to assess the potential for economic mineralization and to generate targets to focus the field activities. All currently available geological maps, reports, aerial photography, topographic mapping, geophysical surveys and assessment files were reviewed in detail.

A total of 4 days were spent in the field traveling to and from Sudbury on a daily basis. Fieldwork included prospecting and bedrock sampling in the general area of the mineralised showings located in the easterly part of the property. Appendix 2 illustrates the location of areas covered by the current fieldwork and rock sample locations.

Rock samples were taken at select locations where visible sulphide mineralisation was encountered. Samples were described in the field with geodetic positions noted then bagged and delivered to SGS Laboratories in Garson, Ontario for further analysis.

A previously prepared compilation map has been updated to illustrate the property geology, old mine workings, past diamond drill holes and other significant features. The individual datasets were rubber sheeted to best fit the exploration grids as re-established. See Appendix 1.

A separate statement of costs for assessment credits detailing daily activities and associated costs is being submitted concurrently with this assessment report.

5.2 RESULTS

Fieldwork to date has been successful in locating and sampling several previously report mineralised occurrences from the 1950-1970's assessment reports described in *Henning, 1973 (pgs. 7 to 13)*.

Showings "C", "D", "13F", "14" "14B" and "18E" were located, examined and select grab samples were taken of the most promising looking rocks and mineralisation.

Showings "12", "16" and "17" were searched for but could not be located at this time.

Several samples were also taken while prospecting in the general area as shown on Appendix 2.



Photo 2 – Sample S00435039



Photo 3 – Sample S00435040 (Showing “D”)



Photo 4 – Sample S00435044 (Showing “13F”)

A total of 9 samples were taken and submitted for geochemical assays and analysed using a Sodium Peroxide Fusion/ICP-AES package and Standard 30g Fire Assay for Gold and PGE's. See Appendix 3 for sample details. Geochemical assays are pending for all samples taken as part of the work described in this report. Assays costs and results will be submitted in a 2023 assessment report.

6.0 CONCLUSIONS

A limited prospecting program has been carried out to investigate the reported mineralisation on the easterly portion of the McNish Project. The work carried out has been successful in locating and sampling several areas of historic mineralisation. Assays results to verify previously reported base and precious metal values from the 1970's exploration work are pending.

7.0 REFERENCES

Meyn, H.D., 1977: Geology of Afton, Scholes, Macbeth and Clement Townships, District of Sudbury and Nipissing; Ontario Geological Survey Report 170, 77p Accompanied by Maps 2385 and 2386.

Dressler, Burkhard O., 1979: Geology of McNish and Janes Townships, District of Sudbury; Ontario Geological Survey Report 191, 91p Accompanied by Map 2425, scale 1:31680 (1 inch to ½ mile).

Henning, R.H., 1973: Jerome Explorations Limited; Progress Report on McNish Property, (AFRI 41I16SW9358)

Inventus, 2019: Press Release "Inventus identifies Sudbury Offset Dykes above the Temagami anomaly", dated November 14, 2019, www.inventusmining.com/news

Pemberton, R.H., 1952: Palston Mining & Development Company Limited; Report on McNish Property, (attached to AFRI 41I16SW0032)

8.0 CERTIFICATE

I, Bryan Dorland certify that:

I graduated with a Mining Engineering Technician diploma from Cambrian College in 2008.

I have held a valid Ontario Prospector's License since 2006 (License No. 1012035, Client No. 411680)

I have been actively participating in the mining and exploration industry since 2006.

I personally completed the work described in this report.

I hold a 100% interest the property described in this report.

A handwritten signature in blue ink, appearing to read 'BDL', with several horizontal lines extending to the right.

Bryan Dorland

Dated July 27, 2022 at Sudbury, Ontario

PLAN OF
McNISH PROJECT
 GEOLOGICAL COMPILATION
 GEOGRAPHIC TOWNSHIPS OF
 McNISH & MACBETH
 SUDBURY MINING DIVISION
 DISTRICT OF SUDBURY

SCALE 1:5000
 0 50 100 200 300 METRES

- LEGEND**
- MINERALISED SHOWING
 - DIAMOND DRILL HOLE LOCATION
DIP/AZIMUTH/DEPTH(M)
 - BLASTED PIT OR OVERBURDEN TRENCH LOCATION
 - SHAFT

NOTE
 THIS GEOLOGICAL COMPILATION HAS BEEN CREATED USING FIELD OBSERVATIONS AND INFORMATION CONTAINED IN THE FOLLOWING SOURCES:

GEOLOGY:
 MEYN, H.D., 1977, ONTARIO GEOLOGICAL SURVEY REPORT 170, MAP 2386
 DRESSLER, B.O., 1979, ONTARIO GEOLOGICAL SURVEY REPORT 191, MAP 2425

DRILLING:
 AFR1 No's: 41116SW0253, 41116SW0254, 41116SW0001, 41116SW0019, 41116SW2007, 41116SW2008

SHOWINGS:
 AFR1 No's: 41116SW9358, 41116SW0032

MACBETH - LITHOLOGY FROM MAP 2386

HURONIAN SUPERGROUP
COBALT GROUP
 GOWGANDA FORMATION

- 6 Unsubdivided.
- 6a Paraconglomerate.
- 6b Orthoconglomerate.
- 6c Mudstone, siltstone.
- 6d Laminated mudstone, laminated siltstone.
- 6e Pebbly mudstone, pebbly sandstone.
- 6f Greywacke, sandstone, grit.
- 6g Arkose.

CONFORMABLE CONTACT, FAULTING

HOUGH LAKE GROUP
 MISSISSAGI FORMATION

- 5 Unsubdivided.
- 5a Orthoconglomerate.
- 5b Greywacke, quartzite, arkose.
- 5c Mudstone, siltstone.

UNCONFORMITY

EARLY PRECAMBRIAN
MAFIC INTRUSIVE ROCKS

- 4 Metadiabase, diabase.

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS
METASEDIMENTS

- 3 Unsubdivided.
- 3a Greywacke, quartzite.
- 3b Argillaceous metasediments.
- 3c Conglomerate.
- 3d Limestone.

FELSIC TO INTERMEDIATE METAVOLCANICS

- 2 Unsubdivided.
- 2a Rhyolite, dacite, quartz and feldspar porphyry.
- 2b Pyroclastic rocks.

MAFIC TO INTERMEDIATE METAVOLCANICS

- 1 Unsubdivided.
- 1a Flows.
- 1b Schist.
- 1c Pyroclastic rocks.
- 1d Metagabbro, metadiabase, meta-diorite.

McNISH - LITHOLOGY FROM MAP 2425

HURONIAN SUPERGROUP
COBALT GROUP
 LORRAIN FORMATION

- 7 Quartz arenite, arkose, minor silty greywacke.

GOWGANDA FORMATION

- 6a Greywacke.
- 6b Quartz arenite, arkose.
- 6c Polymictic paraconglomerate.
- 6d Polymictic orthoconglomerate.

HOUGH LAKE GROUP
 MISSISSAGI FORMATION

- 5a Argillite, minor interbedded greywacke.
- 5b Greywacke.
- 5c Arkosic arenite.
- 5d Conglomerate.
- 5e Metamorphosed and deformed 5a and 5d.

UNCONFORMITY

EARLY PRECAMBRIAN
MAFIC INTRUSIVE ROCKS

- 4 Diabase.

INTRUSIVE CONTACT

FELSIC INTRUSIVE ROCKS

- 3 Granitic rocks.

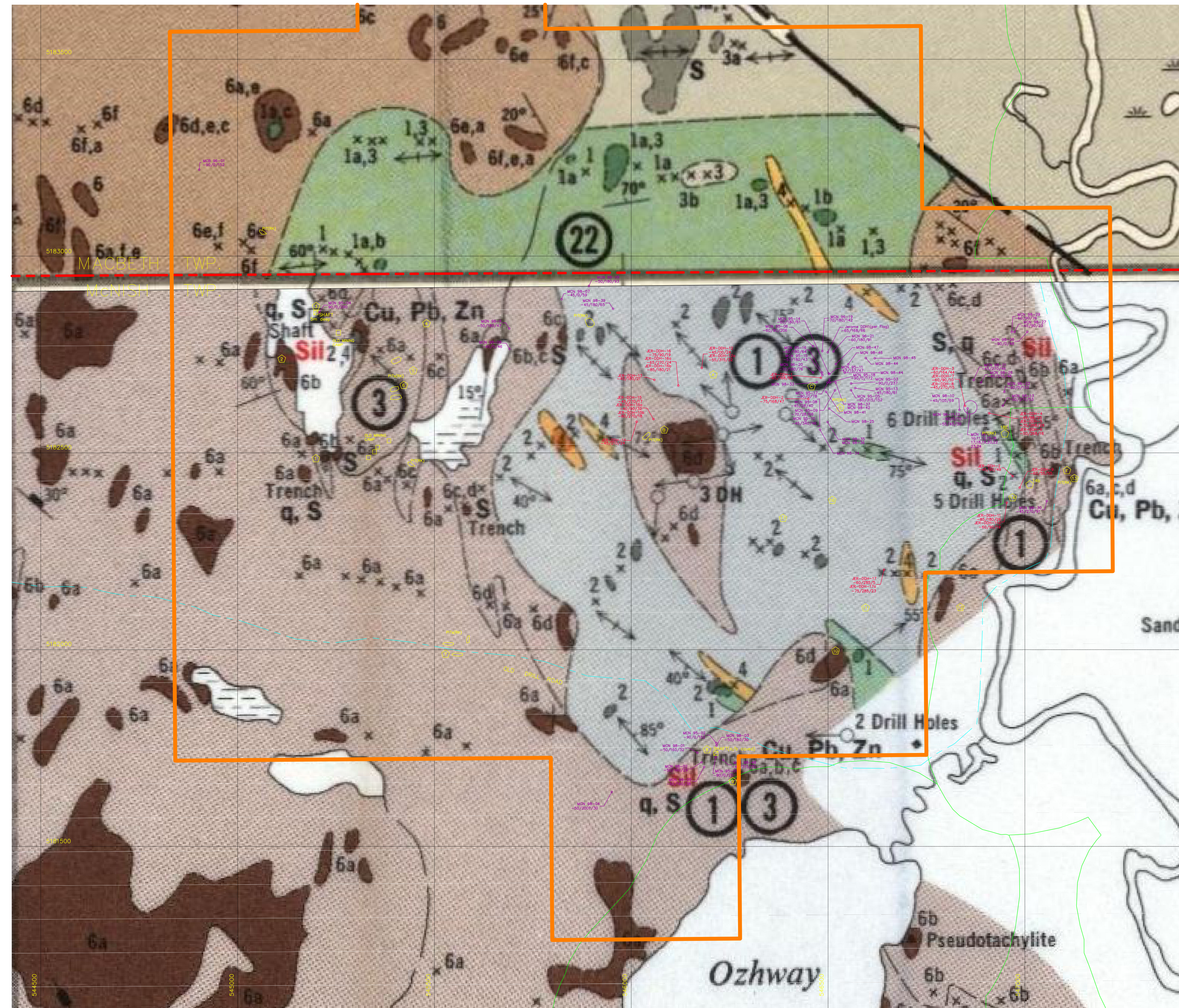
INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS
METASEDIMENTS

- 2 Greywacke, mudstone.

METAVOLCANICS

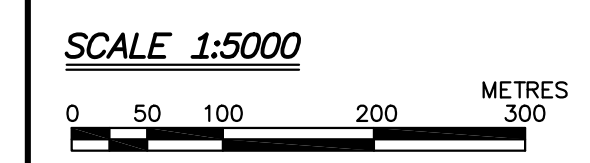
- 1 Mafic metavolcanics (amphibolites).



McNISH PROJECT

PREPARED BY : BCD SCALE : 1:5000 METRIC
 CHECKED : BCD CAD FILE : McNish_MASTER.dwg
 DATE : JULY 27, 2022 P. SPACE TAB : 1-GEO COMPILATION

PLAN OF
McNISH PROJECT
 2022 WORK AREAS
 GEOGRAPHIC TOWNSHIPS OF
 McNISH & MACBETH
 SUDBURY MINING DIVISION
 DISTRICT OF SUDBURY

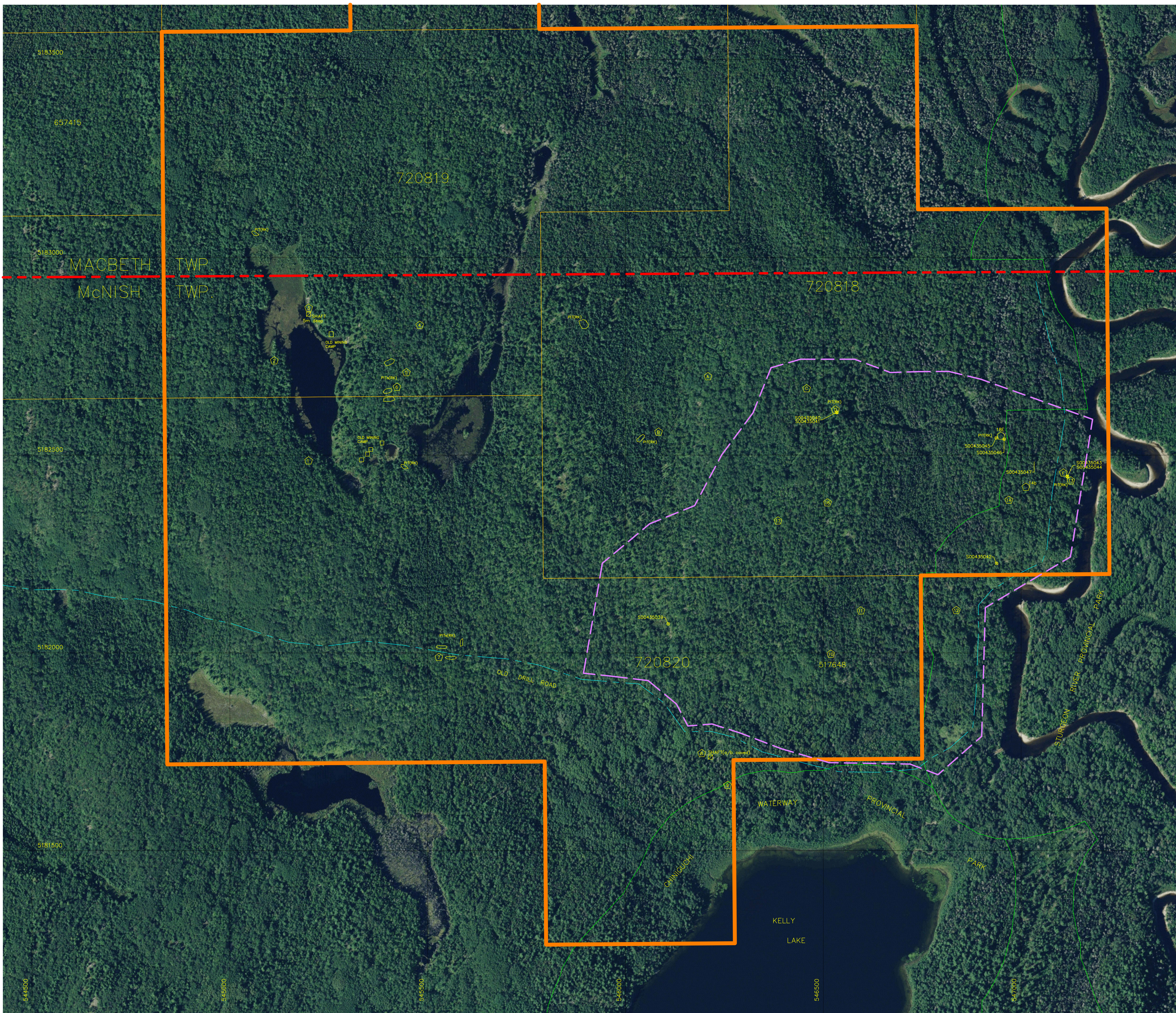
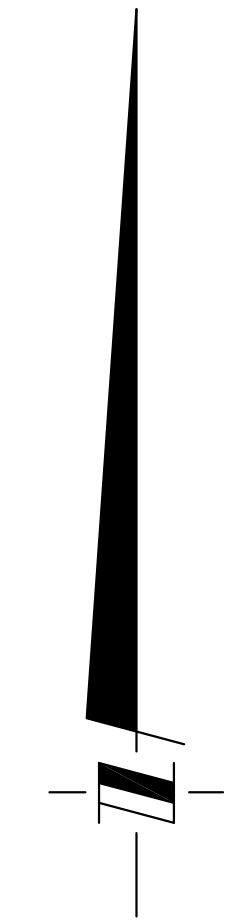


- LEGEND**
- MINERALISED SHOWING
 - BLASTED PIT OR OVERBURDEN TRENCH LOCATION
 - SHAFT
 - DENOTES GENERAL OUTLINE OF AREAS PROSPECTED
 - SAMPLE LOCATION AND NUMBER

NOTE

SEE FIGURE 2 AND TABLE 1 IN THE ACCOMPANYING REPORT FOR MINING CLAIM DETAILS.

PROJECTION: UTM ZONE 17
 DATUM: NAD83
 UNITS: METRES



NOTE
 IMAGERY COURTESY OF MLAS
 © QUEEN'S PRINTER FOR ONTARIO, 2022

McNISH PROJECT

PREPARED BY : BCD	SCALE : 1:5000 METRIC
CHECKED : BCD	CAD FILE : McNish_MASTER.dwg
DATE : JULY 27, 2022	P. SPACE TAB : 3- 2022 WORK AREA

PROJECT: McNISH		ROCK SAMPLES									UTM ZONE 17, NAD83
SAMPLE No.	TYPE	POINT No.	NORTHING	EASTING	ELEVATION	DESCRIPTION/NOTES	SAMPLE DATE	ASSAYED	ASSAY DATE	NOTABLE ASSAYS	
S 00435039	Grab	165	5182073	546108	-	Grab from subcrop, silicified conglomerate, green alteraton mineral?, fair sulphide content +/-5% Py, Pyrr, few specs of Cpy, Bornite, slightly magnetic	07-08-2022	yes		pending	
S 00435040	Grab	168	5182608	546534	-	grab from blasted rock face, probable location of "Showing D", coarse grained "pyroxene dyke", non magnetic	07-09-2022	yes		pending	
S 00435041	Grab	169	5182607	546534	-	grab from o/c, highly silicified/recrystalied dark coloured volcanic or sediment, +/-1m South of S00435040, pretty much on contact, diss. Py, Cpy throughout >+/-5%	07-09-2022	yes		pending	
S 00435042	Grab	177	5182226	546938	-	grab from side of rock face, highly silicified light couloured sediment, light grey, fine grained, minor sulphide + red coloured rusting along fractures, hematized?	07-24-2022	yes		pending	
S 00435043	Grab	178	5182445	547117	-	grab from blast pit +/- 1.5m square on E. side of old tril, likely location of "Showing 13F", highly silicified sediment+conglomerate / diss. Blebby sulphides in matrix, +/-3% Py, Cpy	07-24-2022	yes		pending	
S 00435044	Grab	178a	5182446	547117	-	same location as S 00435044 but sulphides appear to be part of clasts? Instead of matrix	07-24-2022	yes		pending	
S 00435045	Grab	179	5182540	546957	-	grab from sub crop?/possible boulder, has not travelled far, silicified sediment (greywacke?) with the odd re-crystalized clasts, +/-5% sulphides, could be part of "Showing 18" from previous reports	07-25-2022	yes		pending	
S 00435046	Grab	180	5182543	546937	-	grab from blasted pit +/-2m square, probable location of "Showing 18" from previous reports, sample is piece of qtz stockwork with fair blebby sulphide +/-5% Py, Cpy	07-25-2022	yes		pending	
S 00435047	Grab	181	5182483	547033	-	grab from o/c, fine grained mafic volcanic?, dark grey w/ 5mm wide qtz veinlets, slightly magnetic, +/-5% sulphide throught maily Py, Pyrr, contains black mineral similar to "pyroxene dyke"	07-25-2022	yes		pending	

STATEMENT OF COSTS FOR ASSESSMENT CREDITS

July 2022

McNISH PROJECT

GEOGRAPHIC TOWNSHIPS OF McNISH & MACBETH
SUDBURY MINING DIVISION
TERRITORIAL DISTRICT OF SUDBURY
PROVINCE OF ONTARIO

BRYAN C. DORLAND
July 27, 2022

TABLE OF CONTENTS

SUMMARY.....3

APPENDECIES

Appendix 1 – Daily Activity Log and Cost Breakdown.....back pocket
Appendix 2 – Receipts.....back pocket

SUMMARY

Time and expenses claimed for assessment credits for the accompanying Report on Exploration Activities –July 2022 are detailed in the attached daily log and cost breakdown.

Dollar values for time and expenses noted in the cost breakdown are based on industry standards. All equipment used to carry out the work is personally owned by the author unless noted otherwise and has been charged at standard industry rates.

Assays costs have not been included in this submission as final results and total costs have not been received. The assay costs for samples taken as part of this work will be claimed on the next assessment report.

The work was carried out entirely by the author.

Bryan Dorland
252 Old Skead Road,
Garson, Ontario, Canada
P3L 1N3
Cell: 705-662-3909

CERTIFICATE

I, Bryan Dorland certify that:

I graduated with a Mining Engineering Technician diploma from Cambrian College in 2008.

I have held a valid Ontario Prospector's License since 2006 (License No. 1012035, Client No. 411680)

I have been actively participating in the mining and exploration industry since 2006.

I personally supervised and carried out the work described in this report.

I hold a 100% interest the property described in this report.



Bryan Dorland

Dated July 27, 2022 at Sudbury, Ontario

