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Wallbridge Mining

Wisner Property Assessment Report

Surface mapping and mechanical stripping during the 2016 field season

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1 INTRODUCTION

This report summarizes the exploration work completed between October 1st, 2015 and September 30th, 2016 (mapping, prospecting, and mechanical stripping) on the Wisner Property, situated in Wisner and Bowell Townships, Sudbury, Ontario. The surface exploration and mechanical stripping detailed in this report focused dominantly on the Wallbridge-Glencore JV and Wallbridge-Lonmin Bowel claim blocks. Exploration was focused where previous exploration programs outlined areas with Cu-Ni-PGE sulfide mineralization. This exploration program focused on finding additional zones of mineralization.

2 ACCESSIBILITY AND PHYSIOGRAPHY

The properties are located approximately 35 km north of the city of Sudbury, Ontario and within the northeast limits of the amalgamated City of Greater Sudbury, Ontario and west of Lake Wanapitei (Figure 1). Paved roads via Regional Road 80 through the towns of Val Caron and Val Therese and an all season logging road north of the town of Val Caron provide access to the property. Various parts of the Wisner properties can be accessed directly via the Nelson Lake (Regional Road 96) and Pigeon Lake (WD-16 Road) gravel roads and other gravel logging roads as well as drill trails. A number of recent drill roads and ATV/snowmobile trails provide access to most areas of the property. The rest of the Property is accessible on foot or by canoe.

The property is covered by approximately 15% outcrop, 45% water, and 40% swamp and glacial moraine. The land area is covered with 1 m to 3 m of glacial till containing up to 4 m granitic erratics. The outcrops are commonly rounded, smooth knobs with maximum dimensions of 120 m by 10 m. Elevations range from 270 m to 340 m above sea level. The topography includes rolling hills, elongate lakes, steep north-south trending bluffs (<30 m relief) and several extensive low lying marshy areas. Vegetation consists of white spruce, black spruce, white pine, red pine, jack pine, poplar, maple and oak. Alder, cedar and white ash grow in the lower wet areas.

3 CLAIMS AND CLAIM HOLDERS

The Wisner Property consists of five (5) active project areas (Wisner, Wisner E, Wisner W and Bowell), located in Wisner and Bowell Townships. The projects are comprised of mining claims, mining leases (2) and one patent. The properties are shown in Table 1 - tenures, following and in map view Figure 2.

The bulk of the expenditures for the exploration program described in this report were carried out in Wisner Township, Sudbury, Ontario on claim 1230728 from the Wisner East block and claims 1229771 and 1230733 of the Bowel block. The entire Wisner property is part of the North Range Joint Venture with Lonmin Plc.

Table 1: Land status

1 Bowell project						
	type	Claim number			township	holder
1	claim	1229771			Bowell	Wallbridge
2	claim	1230732			Bowell	Wallbridge
3	claim	1230733			Bowell	Wallbridge
2 Broken Hammer project						
	type	description	lease number	rights held	township	holder
1	lease	L9 C4 S1/2,L10 C4 E1/2 S1/2	108106	mining & surface	Wisner	Wallbridge
3 Wisner West project						
	type	description	lease number	rights held	township	holder
1	lease	S1229369	108508	mining & surface	Wisner	Wallbridge
4 Wisner East project						
	type	claim number			township	holder
1	claim	1230727			Wisner	Wallbridge
2	claim	1230728			Wisner	Wallbridge
3	claim	1246145			Wisner	Wallbridge

Table 1 (continued)

5 Wisner (Glencore) project					
	type	claim number		township	holder
1	claim	984613		Bowell	Glencore
2	claim	984614		Bowell	Glencore
3	claim	984615		Bowell	Glencore
4	claim	984625		Wisner	Glencore
5	claim	984626		Wisner	Glencore
6	claim	984627		Wisner	Glencore
7	claim	984628		Wisner	Glencore
8	claim	984629		Wisner	Glencore
9	claim	984630		Wisner	Glencore
10	claim	984631		Wisner	Glencore
11	claim	984632		Wisner	Glencore
12	claim	984633		Wisner	Glencore
13	claim	984639		Wisner	Glencore
14	claim	984640		Wisner	Glencore
15	claim	984641		Wisner	Glencore
16	claim	984642		Wisner	Glencore
17	claim	984643		Wisner	Glencore
18	claim	984644		Wisner	Glencore
19	claim	984645		Wisner	Glencore
20	claim	984646		Wisner	Glencore
21	claim	993681		Wisner	Glencore
22	claim	993682		Wisner	Glencore
23	claim	993683		Wisner	Glencore
24	claim	994137		Wisner	Glencore
25	claim	1246144		Wisner	Wallbridge
	description		rights held	township	holder
26	patent	RJ1	mining & surface	Wisner	Glencore

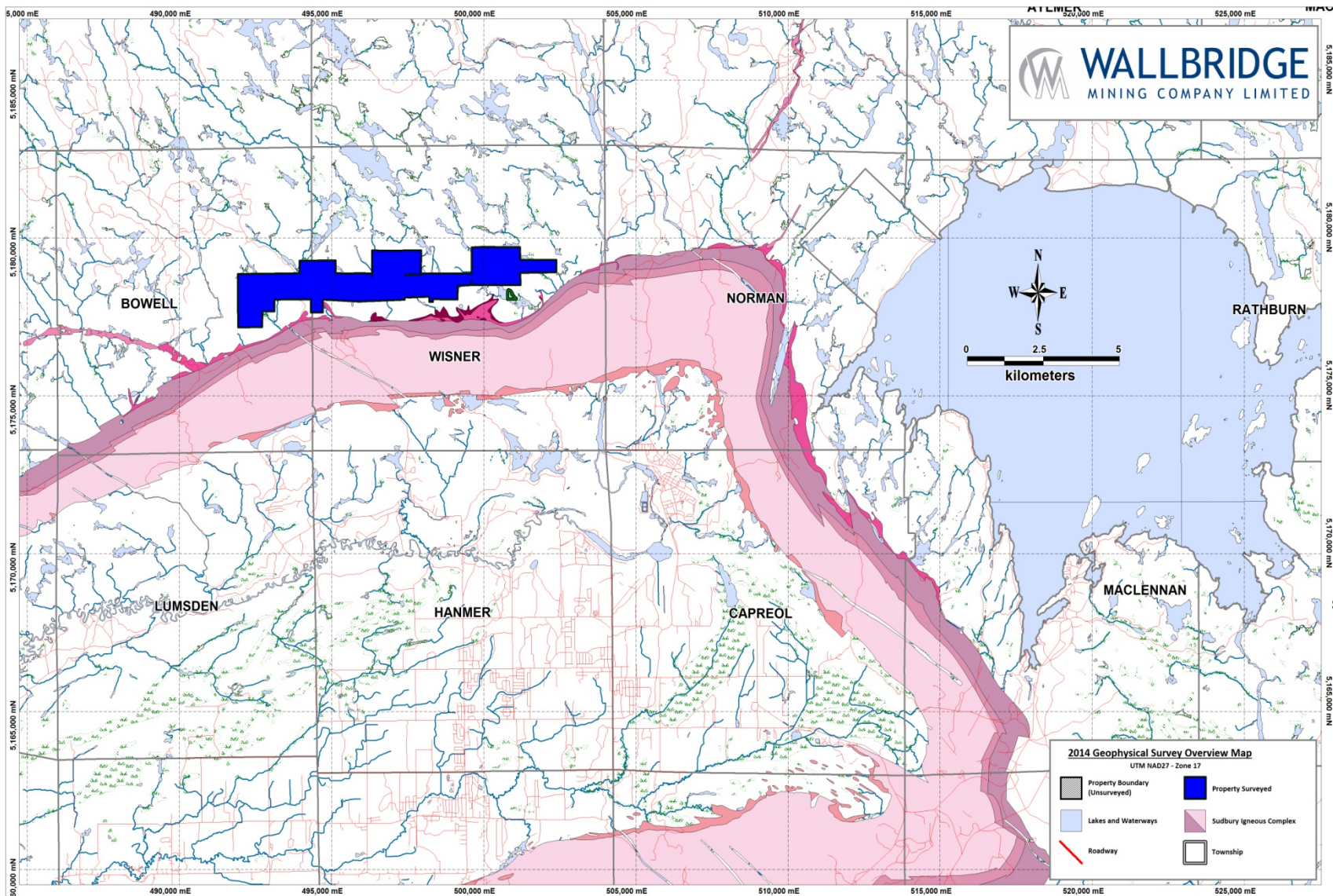


Figure 1. Wisner Property Location Map

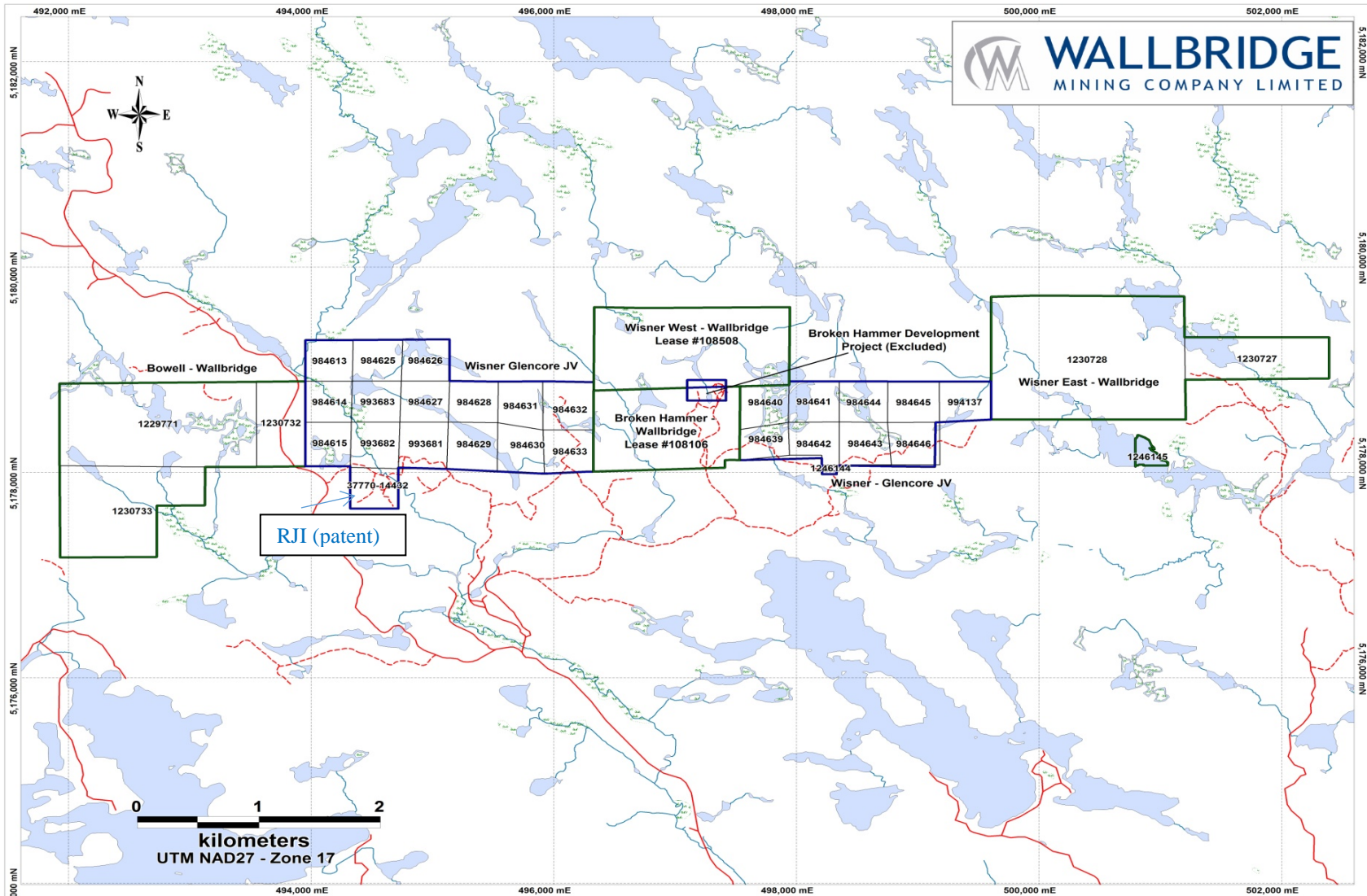


Figure 2. Wisner Property Claim Map.

4 PROPERTY GEOLOGY AND ROCK DESCRIPTIONS

The Wisner properties reside in the North Range, in the footwall of the Sudbury Igneous Complex at the Wisner embayment. The properties are dominated by Archean-aged felsic to intermediate gneisses and Wisner Gabbro; all of which are subsequently intruded by Matachewan and Nipissing diabase dyke swarms. The Sudbury event (~1.85 Ga) is recognized by the widespread occurrence of impact-type breccias at the SIC contact (Footwall breccia or Late Granite breccia) and within footwall rocks (Sudbury breccia), as well as a contact metamorphic thermal overprint related to the thermal erosion of impact breccia and cooling of the SIC. Distributed throughout all the Wisner properties are irregular bodies of Sudbury Breccia, which is the main host lithology for footwall-style Cu-Ni-PGM mineralization, as is the case at the Broken Hammer deposit.

Felsic/Intermediate/Mafic Gneiss (FGN/IGN/MGN)

Felsic Gneisses are an abundant rock type at Wisner. They have a weak gneissosity and are dominantly feldspar and quartz. Locally this unit is cut by coarser-grained pegmatoidal veins. Intermediate gneisses contain both mafic (melanosomes) and felsic (leucosomes) bands which define a gneissosity. Mafic gneisses are dominated by dark Fe and Mg minerals such as amphiboles, biotite, and plagioclase.

(Megacrystic) Quartz Monzonite ((MC)QMON)

This is a quartz-bearing felsic rock which contains plagioclase and K-feldspar which is often coarse-grained K-feldspar and is typically massive.

Monzonite (MON)

Monzonite is a felsic rock containing less than 5 % quartz and is dominated by equal parts plagioclase and K-feldspar.

Partial Melt Gabbro (PMGB)

Partial Melt Gabbro is a gabbroic rock which has been partially melted through contact metamorphism by the Sudbury Igneous Complex.

Pegmatite (PEG)

Pegmatites are coarse-grained vein-like features which typically contain coarse-grained feldspar, quartz, and magnetite. These units often contain some pyrite.

Aplite (APL)

Aplites are fine-grained rocks which have a granitic composition.

Ultramafic (UMAF)

Ultramafic rocks contain an abundance of the Fe and Mg and as a result are composed of mostly pyroxene, olivine and their alteration products.

Footwall Breccia (FWBX)

Footwall breccia is a brecciated unit at the base of the Sudbury Igneous complex which contains footwall clasts with a medium-grained igneous matrix.

Diabase (DIA), Metachewan Diabase (MDIA), and Nipissing Diabase (NDIA)

Diabase describes dark, fine-grained mafic dykes of unknown provenance. They are often magnetic and contain disseminated pyrite or other sulfides. Matachewan Diabase are mafic dykes which are often porphyritic containing medium- to coarse-grained phenocrysts of plagioclase. The dykes contain disseminated pyrite and generally trend NE-SW. Nipissing Diabase are mafic dykes which are often gabbroic in composition and can be fine- to medium-grained they are weakly magnetic and can host trace sulfides. They do not have a consistent orientation in this area.

Mylonite (MYL)

Mylonite is a fine-grained rock which is strongly foliated and is the result of grain-size reduction during metamorphism.

Sudbury Breccia (SDBX)

Sudbury Breccia is present as a minor and major component of the rocks in the area surrounding the Sudbury Igneous Complex. It is a breccia unit with clasts that are mostly felsic gneisses but they can also contain clasts of other rock types which compose the footwall. The unit exhibits variable degrees of recrystallization and is an important ore-hosting unit for footwall mineralization.

Wisner Gabbro (GBAN/GAB)

The Wisner Gabbro is a mafic intrusive rock type which is present in the southern portions of the property. It is dominated by amphiboles (after pyroxene) and plagioclase. It is weakly magnetic and contains trace disseminated sulfide mineralization.

5 EXPLORATION WORK COMPLETED

Exploration on the properties consisted of mapping, prospecting, sampling, and mechanical stripping of outcrops on the Wisner East and Bowel claim blocks. Exploration took place between April 2016 and November 2016. Forty person days were spent mapping and prospecting the claim blocks in search of footwall style mineralization. Followed by 4 days of mechanical stripping in the fall.

WISNER EAST

Mapping was focussed on areas with previously documented soil and rock samples containing elevated metal values. Outcrops were hand stripped in search of sulfide mineralization and to identify any un-documented mafic dykes in the area. Results from mapping can be seen in figures 03 to 06. Parts of the mapped area later underwent mechanical stripping (figure 07). Mechanical stripping removed approximately 2,682 m² from 5 strippings (figure 07) as per permit #Pr-16-10840.

BOWEL

Mapping was focussed on areas with previously documented soil and rock samples with elevated metal values. Outcrops were hand stripped in search of sulfide mineralization as well as to identify any un-documented mafic dykes in the area. Results from mapping can be seen in figures 08 to 11.

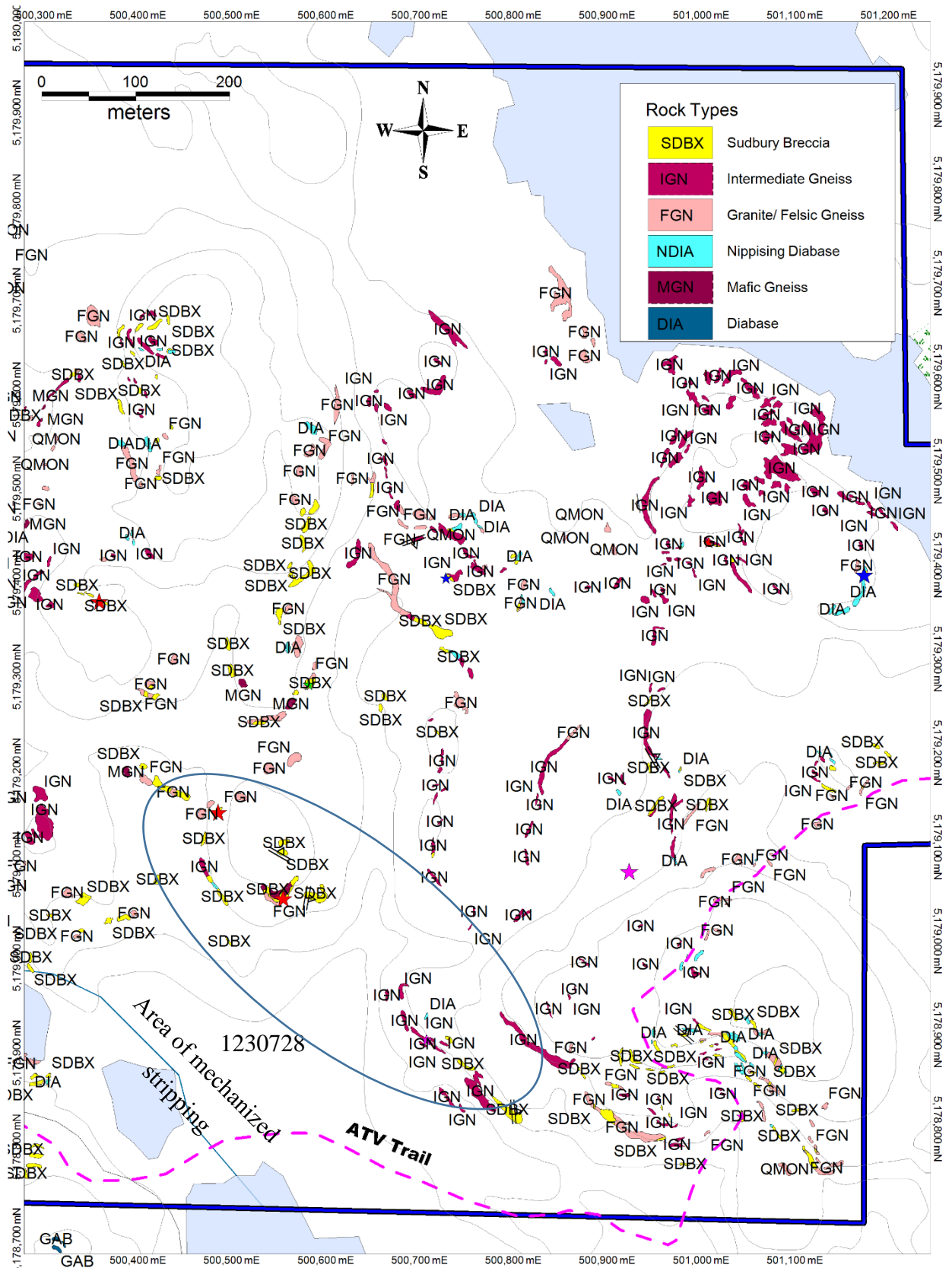


Figure 3: Western map of geological mapping on Wisner East. 1:5000 NAD 83.

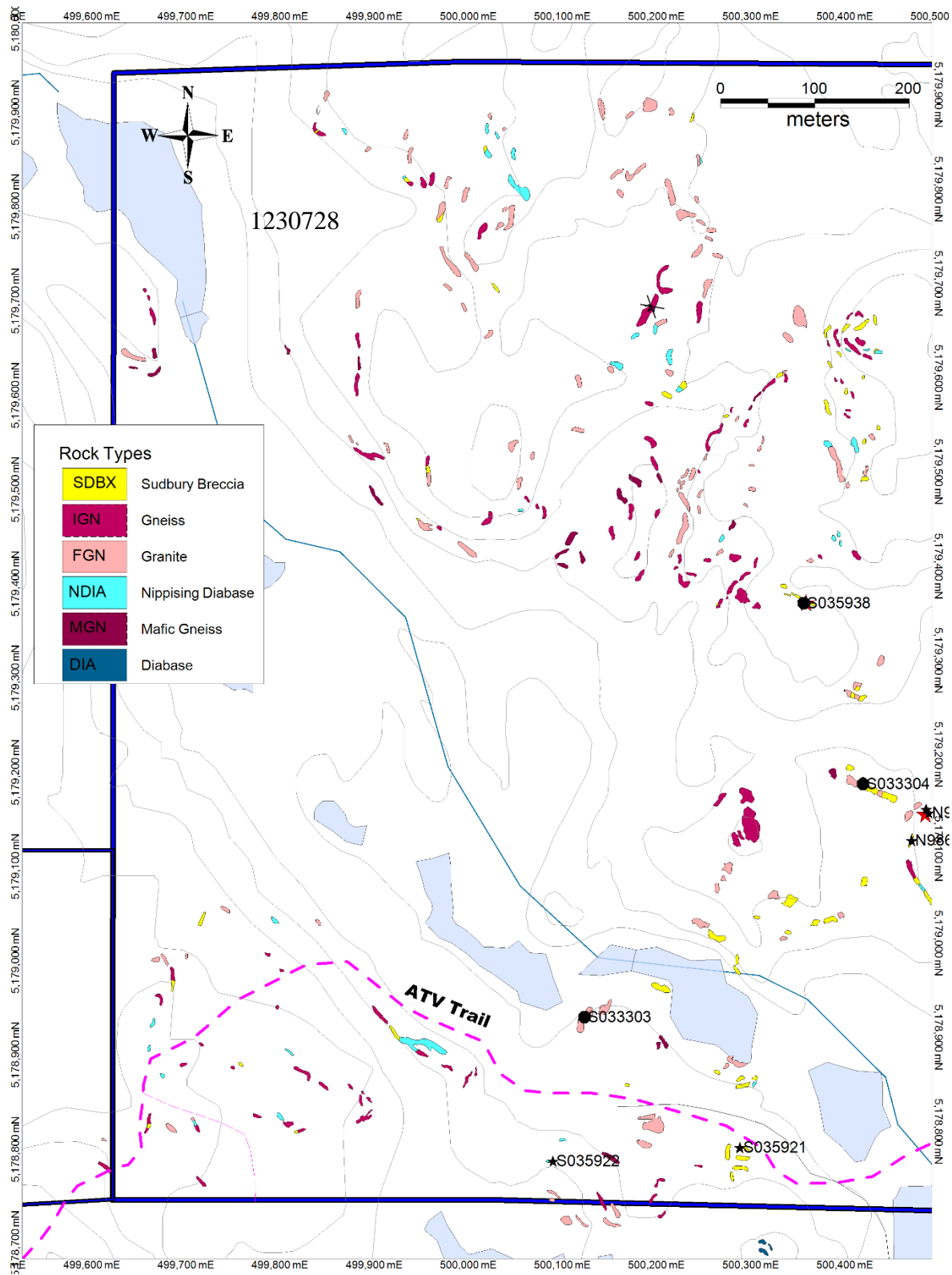


Figure 4: Western map of Wisner East mapping showing sample locations. 1:5000 NAD 83.

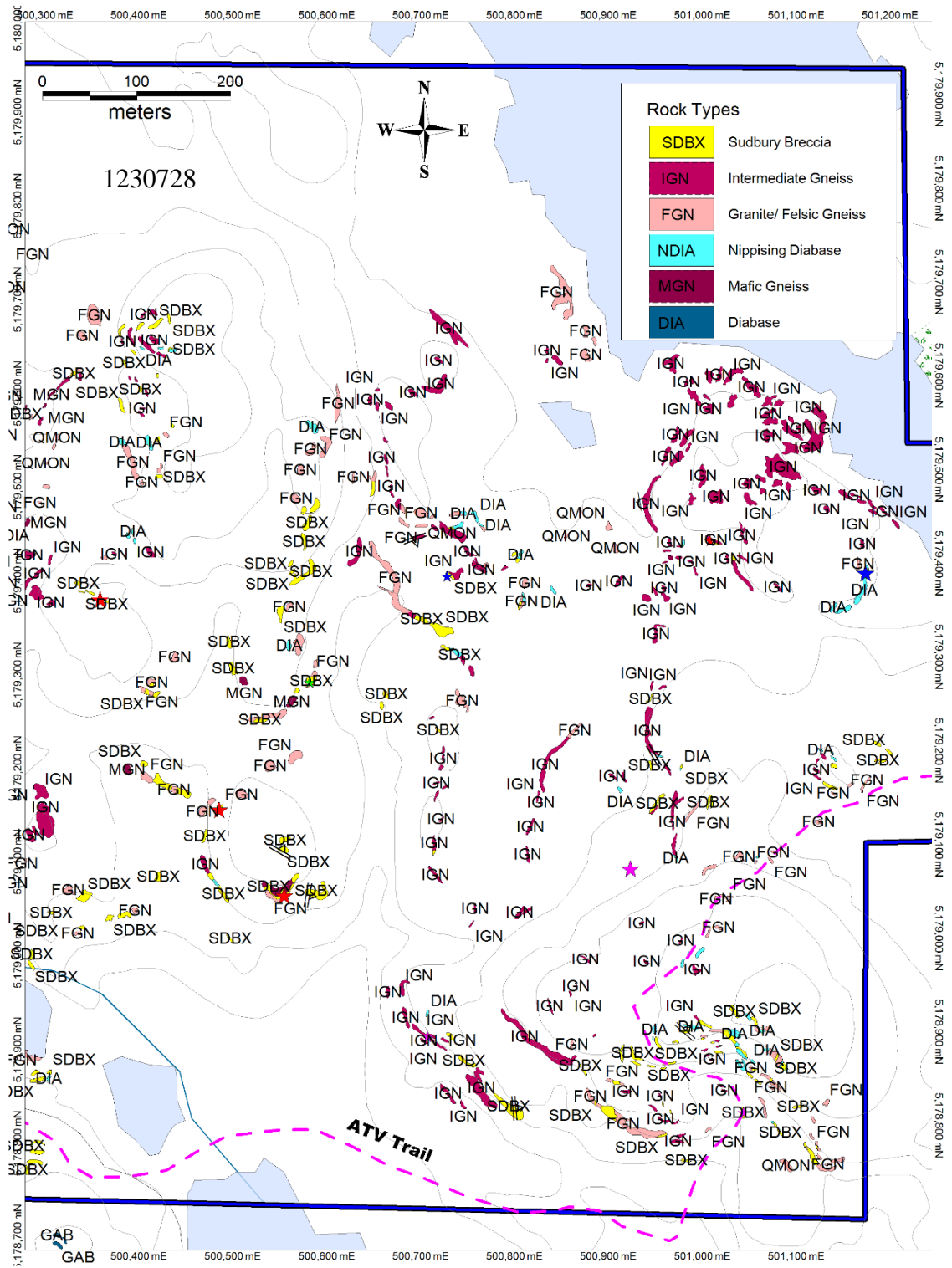


Figure 5: Eastern map of geological mapping on Wisner East. 1:5000 NAD 83.

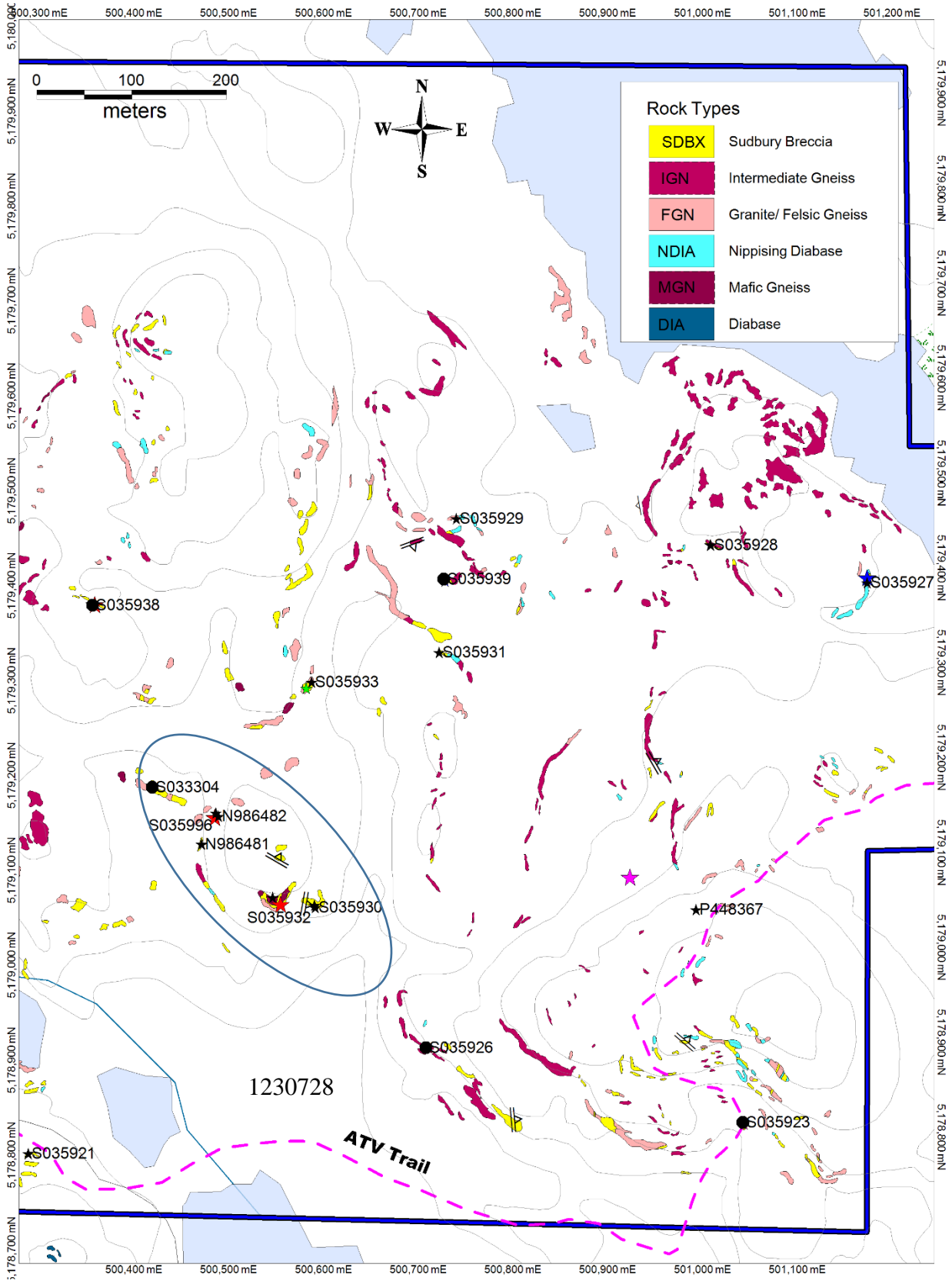


Figure 6: Eastern map of Wisner East mapping showing sample locations. 1:5000 NAD 83.

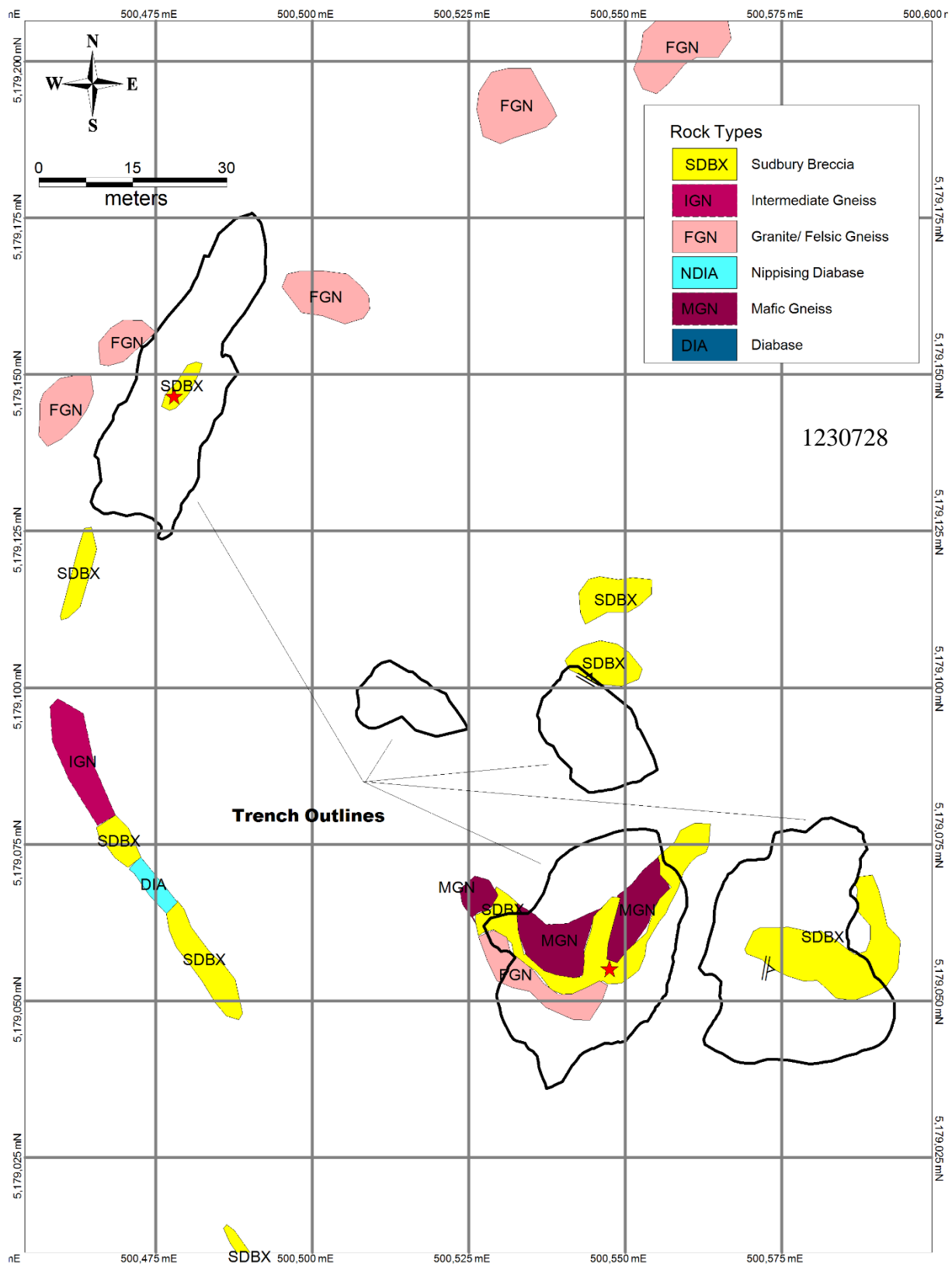


Figure 7: Detail map showing outlines of trenching. 1:750 NAD 83.

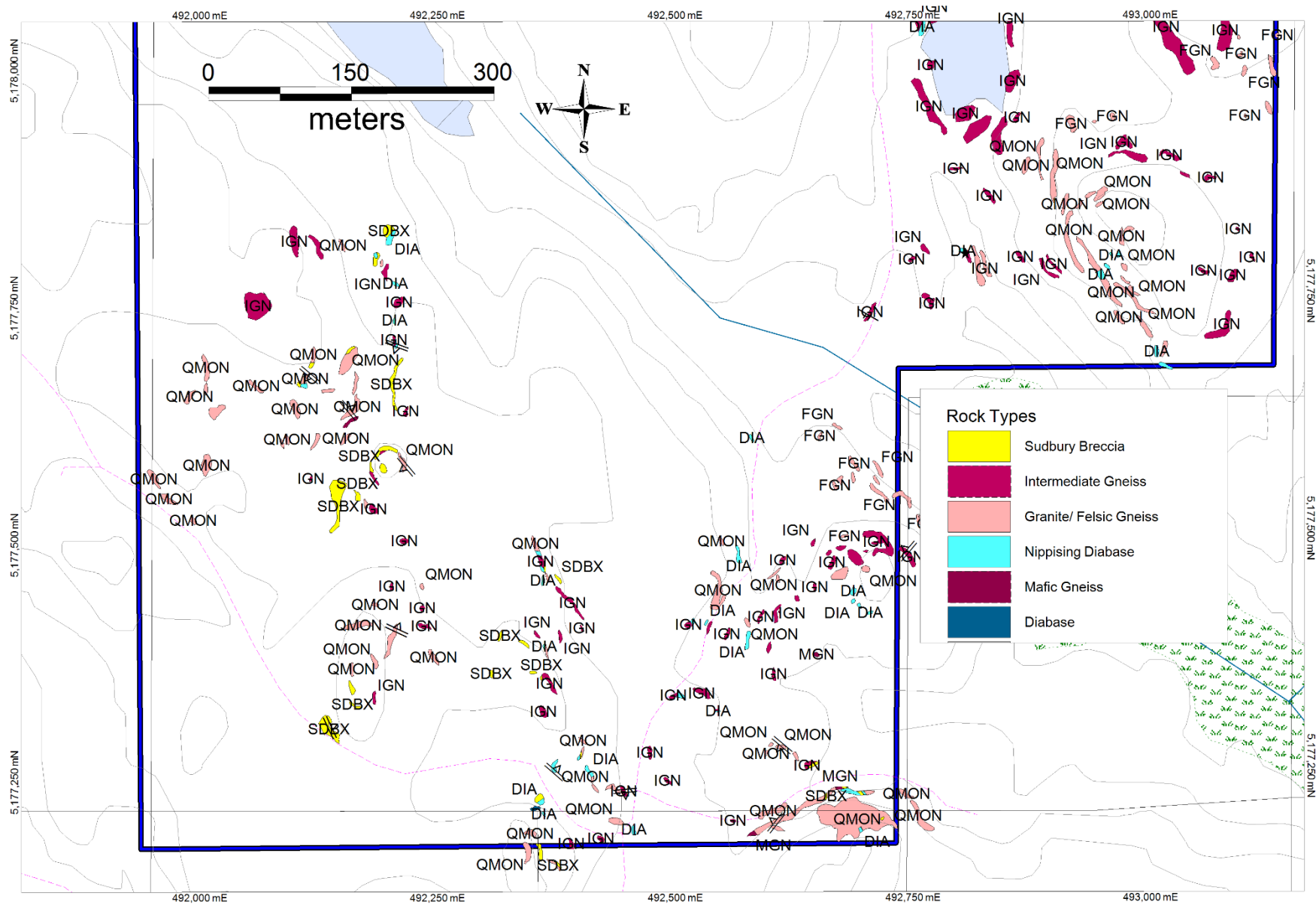


Figure 8: Mapping of the Bowel property SW corner. 1:5000 NAD 83

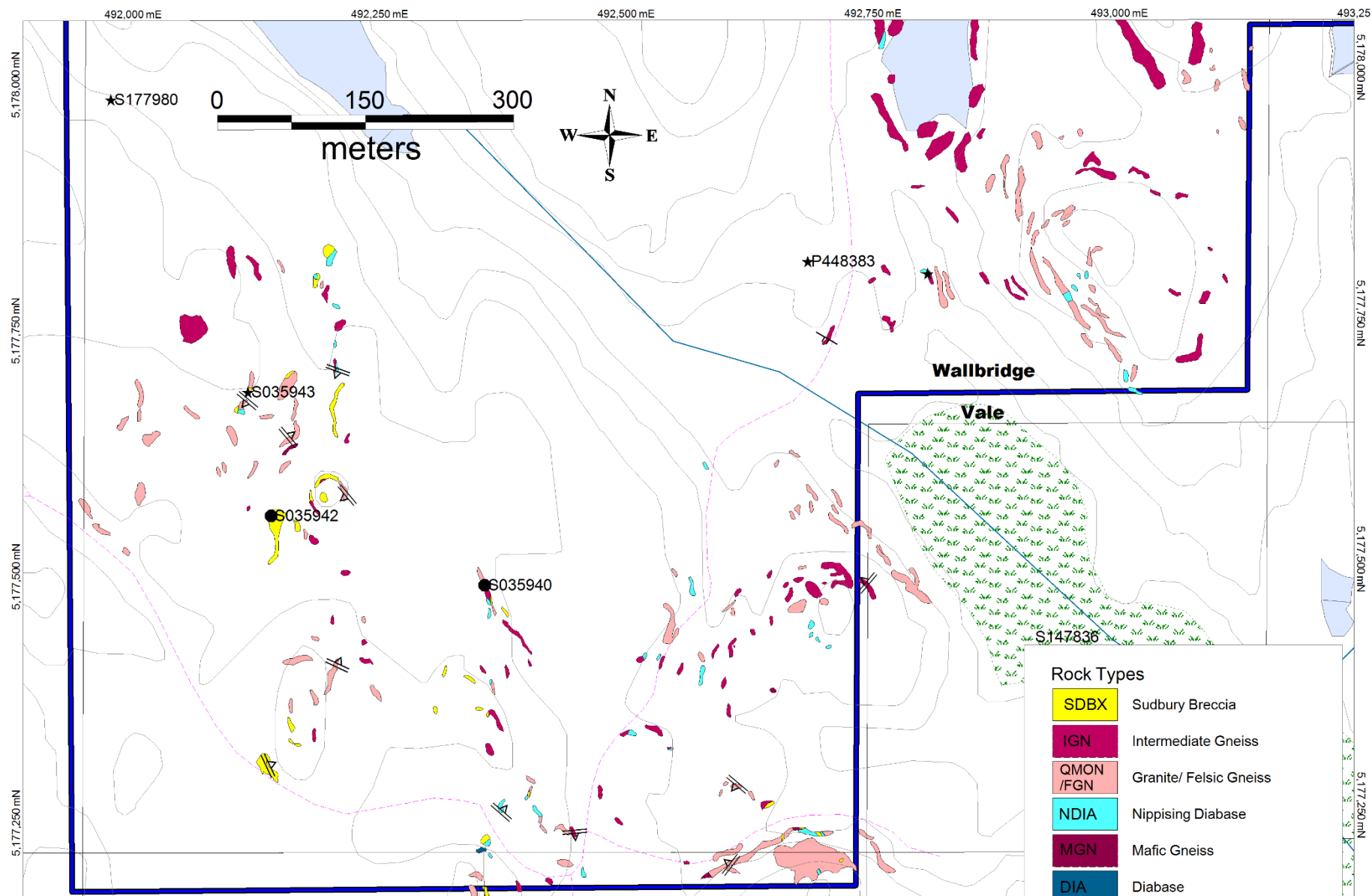


Figure 9: Sample locations in the Southwest corner of the Bowel property. 1:5000 NAD 83.

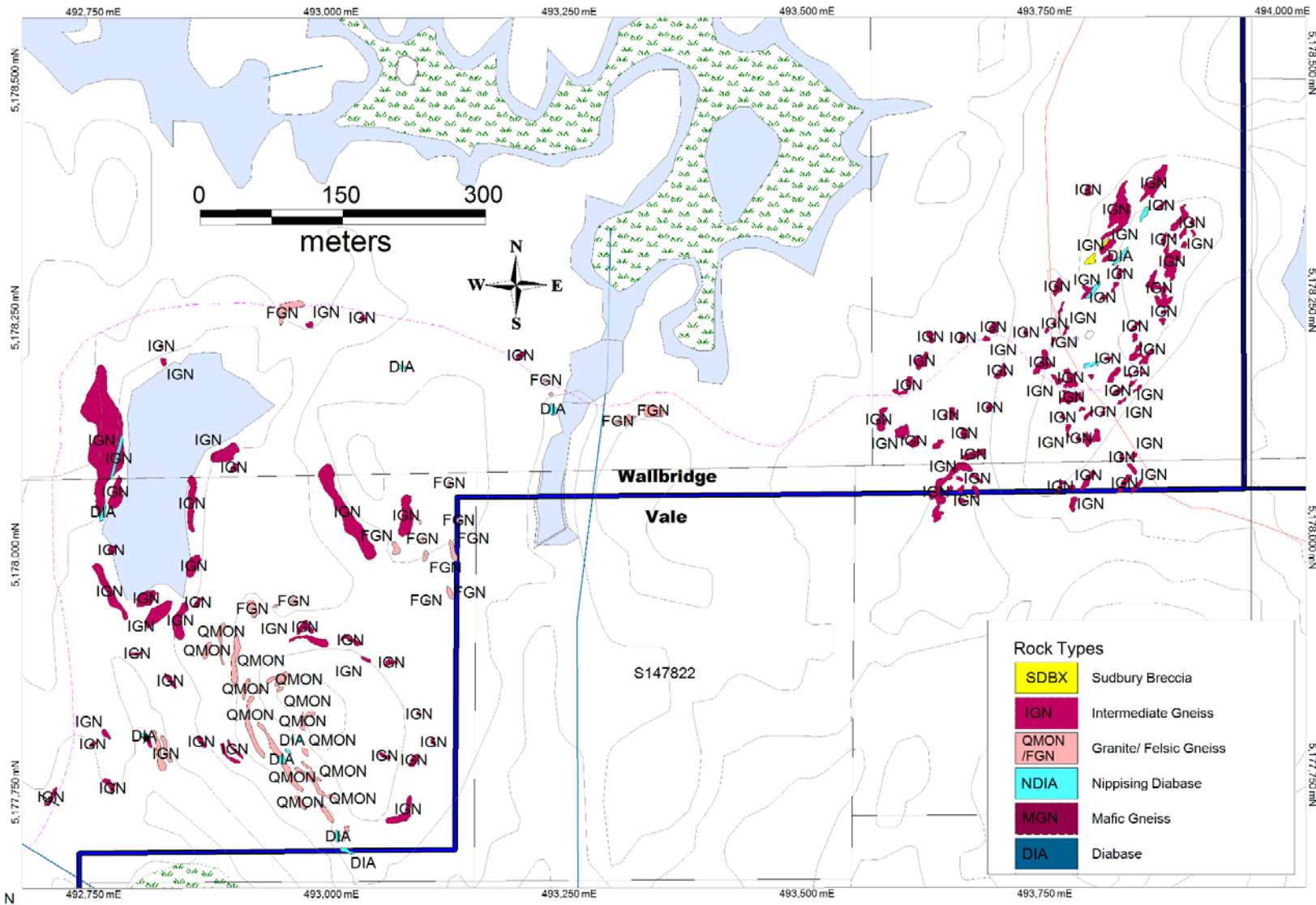


Figure 10: Mapping from the southeastern corner of the Bowel property. 1:5000 NAD 83.

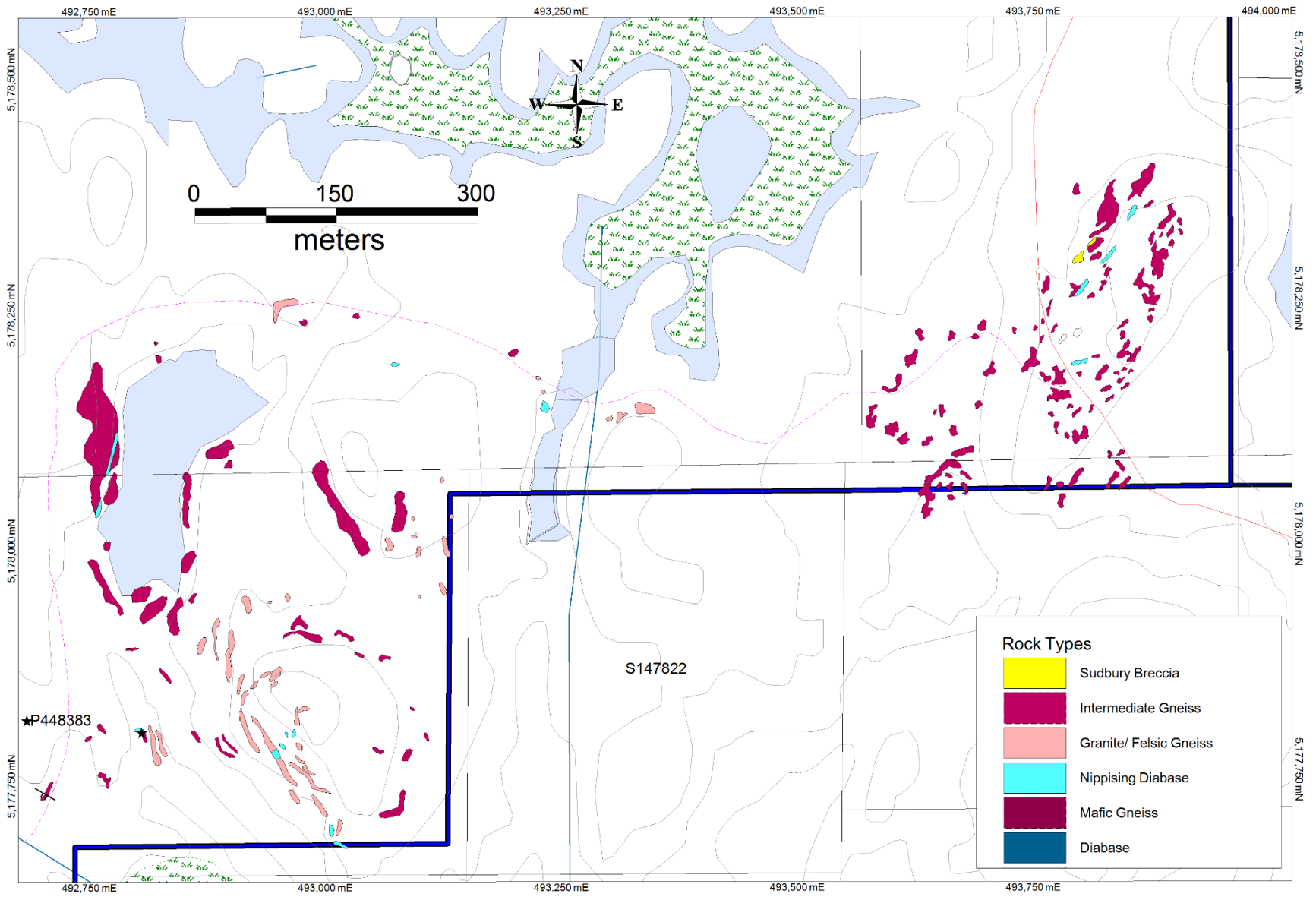


Figure 11: Samples taken from the southeastern corner of the Bowel property. 1:5000 NAD 83.

Table 2: Samples from Wisner East and Howell

<u>Location</u>	<u>SampleID</u>	<u>E NAD27</u>	<u>N NAD27</u>	<u>RockType</u>	<u>FieldDesc</u>
WISNER EAST	N986481	500454.07	5178895.37	IQD	Possible IQD sample. Abundant neelde like amp's and variety of clast types. Blebby pyrite can be seen in local spots, weakly magnetic and has a light bluish/grey colouration.
WISNER EAST	N986482	500471.91	5178924.82	SDBX	Hot sdbx with abundant partial melt veins. Partial melt veins are what are seen hosting the ccp mineralization, and they are associated with vuggy, radial, open space filling epidote and trace actinolite.
WISNER EAST	S035921	500271.50	5178569.58	SDBX	Very hot SDBX with pyrite disseminations to blebs. Clasts have diffuse margins and matrix has felty appearance
WISNER EAST	S035922	500072.69	5178555.36	DIA	Felty textured, non-magnetic diabase with tabular to acicular amphiboles, visible quartz, and interstitial plag and feldspar (small pink inclusions).
WISNER EAST	S035923	501025.44	5178602.42	SDBX	felty textured, recrystallized SDB cut by partial melt veins (up to 5cm wide). PM veins have rusty vugs throughout and are associated with epidote and actinolite
WISNER EAST	S035926	500691.00	5178681.08	FGN	partial melt vein cuts FGN. Vein is vuggy with infilling of Ep>Act>Mt and are associated with minor rusty patches. The ep & act are intergrown with each and quartz.
WISNER EAST	S035927	501156.64	5179171.02	SDBX	warm SDBX that is border b/w 2 & 3 on heat index. Matrix is slightly recrystallized and felty with sharp but diffuse clast margins. Cut by multiple SIC type actinolite and epidote veins
WISNER EAST	S035928	500991.61	5179210.64	SDBX	Warm, felty textured breccia with diffuse yet sharp clast margins. Sample is non-magnetic and contains minor amounts of po, py and trace cpy along clast margins

WISNER EAST	S035929	500722.97	5179238.65	FGN	heavily altered felsic gneiss (kspar 30%, chl 40%, qtz 25%, SDBX 5%) cut by extensional qtz/carb veins and has trace amounts of ccp and py
WISNER EAST	S035930	500574.26	5178828.91	SDBX	Greenish blue SDBX with diffuse clast margins and trace ccp associated with partially melted clasts
WISNER EAST	S035931	500704.85	5179097.59	SDBX	Hot SDBX with vuggy pods of radial actinolite/epidote as well as small patches of py and cpy mineralization. Clasts have diffuse margins and wispy in nature
WISNER EAST	S035932	500573.34	5178831.19	SDBX	Hot SDBX cut by what looks like SIC type quartz veins
WISNER EAST	S035933	500570.21	5179066.16	IGN	intermediate gneiss (plag rich with amphiboles) cut by SIC type ep/act/qtz vein
WISNER EAST	S035938	500339.43	5179147.20	DIA	fine grained diabase occurring within SDBX 2AD3 at the northern tip of outcrop. It is cut by multiple actinolite veins which are associated with py, ccp and bn. The sdbx has a colder appearance immediately adjacent to the diabase and could be classified as a 4 heat index based solely on sample. Rust occurs as trace patches throughout the o/c.
WISNER EAST	S035939	500709.87	5179174.74	SDBX	diabase inclusion within sdbx. Both units are cut by up 2mm wide actinolite veins. These veins are associated with trace sulphide (py>cpy) mineralization. Veins also preferentially occur within the diabase and tend to pinch/die out when they enter the sdbx. veins have an initially glassy appearance, but radial actinolite/amphibole grains can be seen when the vein is parted down the center. sdbx matrix is semi-crystalline, with diffuse but sharp clast margins and rust can be seen throughout the sdbx (partial to fractures).

BOWELL	S035940	492349.73	5177482.81	DIA	fine grained, blueish grey, magnetic, with disseminated to blebby and vein like py along fractures
BOWELL	S035941	492371.97	5177152.26	SDBX	relatively warm SDBX with interesting (coarse grained SIC type?) epidote. Clast margins are swirly but not fully diffuse. Hairline rusty fractures cut across the sample and are associated with py +/- ccp (<0.5% sulfides)
BOWELL	S035942	492133.01	5177553.46	SDBX	Warmish SDBX with pods of radial epidote which, grows radially inwards to fill the vug-like cavities. The ep is associated with 5 mm long acicular actinolite grains
BOWELL	S035943	492109.70	5177679.26	FGN	Tensional quartz veins mixed in with quartz breccia veins (likely same event). Vein was measured with a trend of 310/86 and are likely related to other subvertical veins measured at 110/87 in the mapping area.
BOWELL	S035944	492915.66	5178833.26	SDBX	cold breccia with what appears to be a lot of biotite giving a weak schistic appearance. Sample has blebby pyrite throughout and pyrite veining as well.
WISNER EAST	S033303	500106.37	5178708.29	FGN	fine grained, k-spar rich QMON like gneiss cut by fine grained epidote alteration. The epidote alteration looks to be two separate phases with the first being a coarser grained extensional (?) type and the second looks to be associated with the typical shear type epidote alteration
WISNER EAST	S033304	500402.40	5178955.39	FGN	QMON to tonalite gneiss cut by SIC-type actinolite vein. The vein has vuggy pods that are rusted out and are associated with epidote alteration. Minor amounts of extensional quartz are also seen within the sample. The sample was taken from a large blocky boulder that is most likely derived from the local outcrop. In the outcrop

					similar veins were observed.
WISNER EAST	P448379			IGN	IGN w/ incipient SDBX micro veinlets with up to 0.5-1% py +/- cpy (?). Co-ords 500659, 5178747 Nad 27
BOWELL	P448383	492677.30	5177811.78	OD	Spyder plot is very close to ODIA. probably olivine diabase. Looks fresh-ish and is highly magnetic but weathered surface is similar to that of QD "elephant skin". Whole being done to confirm rock type
WISNER EAST	S035994	499849.32	5179349.35	FGN	felsic gneiss with up to 2% pyrite. Rock unit almost looks sedimentary
WISNER EAST	S035995	500529.42	5178839.31	MGN	sample almost looks like gabbro, sampled for comparative purposes
WISNER EAST	S035996	500469.48	5178928.50	SDBX	Sample is of disseminated footwall granophyre like unit with pyrite

6 RESULTS

WISNER EAST

Mapping during this period resulted in the delineation of a new large zone of hot Sudbury Breccia. Contained in the breccia is numerous footwall granophyre veins associated with trace amounts of sulfide mineralization. Mechanical stripping followed up on these veins and stripped areas still require washing. One boulder of possible inclusion rich quartz diorite was also found on the property.

BOWELL

No significant mineralization was found during the mapping program.

7 RECOMMENDATIONS

WISNER

Based on the new zone of recrystallized Sudbury breccia more mapping should be performed on the property. Ground geophysics may also prove valuable in identifying any conductors located below the surface.

BOWELL

Ground geophysics would be a useful follow to identify any conductors located beneath the surface.

8 QUALIFICATIONS

I, Marshall Hall, do hereby certify that:

1. I reside at 552 Phillip St, Lively, Ontario, P3Y 1N1.
2. I graduated from Laurentian University (Sudbury, Ontario) in 2014 with a B.Sc.H. and am finishing my M.Sc. at Laurentian University.
3. I am currently employed as a Project Geologist with Wallbridge Mining Company Limited.
4. I am a licensed Ontario prospector, No. 1013626.
5. This technical report has been prepared by myself and other members of Wallbridge staff.

As an employee, and an insider, of Wallbridge Mining Company, I do not qualify as an independent Qualified Person.

Marshall Hall



Wallbridge Mining Company Ltd.

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