

Great Gull Lake Resources - Gullbridge Project 2001

DDH - SR-04

License #: 4006
Property: Gullbridge

Collar Easting: 9 + 97 E Logged by: Victor French /
Collar Northing: 75 + 25 N Chad Wells
Hole Azimuth: 110 deg. Date:
Hole Inclination: 50 deg. Start Oct. 11/00
Total Depth: 303.89 Finish Oct. 17/00

Down Hole Surveys (Tropari):

114.5/049 @302.66m
111/049 @172.96 m

<u>Depth</u> (from)	<u>Depth</u> (to)	<u>Description</u>
4.57	18.98	<u>Mafic Volcanic</u> Medium to dark green mafic volcanic unit with abundant quartz veins as well as epidote alteration throughout. Quartz and epidote veins generally conform to a well developed fabric ~50 deg. t.c.a. Locally unit has 20-30 cm intervals of porphyritic mafic with common white plagioclase phenocrysts. Minor brecciation textures are seen@ ~12.00 m where anastomosing quartz (carbonate) veins infill a broken section of mafics, angular wallrock fragments are abundant in zone. This is possibly a remnant fracture/fault zone that has been re-healed by late siliceous fluids. Broken, rubbly core is common especially 4.57-5.49 m & 11.5-12.0 m, broken core appears to have intense epidote alteration and possible chlorite, red-orange hematite veining and staining occurs locally. Broken lower contact.
18.98	26.63	<u>Mafic Volcanic / Diabase</u> Black to dark green mafic with very little alteration or fabric. Unit quite massive with a fine grained texture apparently reflecting a possible intrusive nature. Rare epidote and quartz veinlets, no chlorite alteration even on broken fracture surfaces. Most of core is broken and rubbly. Broken upper and lower contacts. Contained within this unit are two short intervals of foliated siliceous sediment. 20.71 - 21.41 m & 25.7 - 26.63 m: Buff to slightly pink siliceous unit of likely sediment origin. Well developed foliation ~50 deg. t.c.a exaggerated by white siliceous laminations and pinkish brown hematite, no sulphides, contacts of both intervals appear to conform to 45-50 deg. t.c.a fabric.
26.63	31.53	<u>Mafic Volcanic / Diabase</u> Very similar to mafic described immediately above except unit appears finer grained and is more likely a massive extrusive flow.
31.53	37.39	<u>Siliceous Sediment</u> Predominantly green to grey with abundant patches and laminations of mint green epidote as well as orange hematite veins and staining. Epidote laminations are often > 10 cm thick generally

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cont...

Description

conforming to a 45-50 deg. fabric. Unit is quite hard and becomes progressively grey and siliceous towards lower contact. There appear to me remnant bedding plane now parallel to fabric. Unit may be a metasediment or a well hornfelsed felsic tuff. It should be noted the abundant epidote alteration does appear to have a garnetiferous component characteristic of hornfelsing in the area. Both upper and lower contacts are 50 deg. t.c.a.

Granodiorite

37.39 48.32 Dark green to black grading pinkish in part, medium to coarse grained intrusive with abundant identifiable subhedral crystals of white plagioclase and pink feldspar throughout, as well as what appear to be anhedral grey quartz eyes. Irregularly oriented minerals in irregular shapes and sizes almost make unit look fragmental. Grain size increases locally with slight plagioclase color change. Epidote is present as minor veinlets and fracture coating, orange hematite staining occurs locally. Unit is rather massive with no apparent fabric but epidote veinlets generally cut unit as laminations cutting core from 20-50 deg. t.c.a. No mineralization associated with this intrusive body. Both upper and lower contact are ~50 deg. t.c.a.

Mafic Volcanic

48.32 50.79 Dark to medium green mafic volcanic with minor epidote alteration throughout, there appears to be a weak to moderate fabric of 50 deg. t.c.a. Overall unit is quite characteristic of the green andesitic mafic described elsewhere

Chert (Siliceous Sediment)

50.79 60.15 Medium grey to buff green, minor maroon laminations, extremely siliceous buff green chert grading into a laminated sediment with remnant soft sediment deformation (contorted beds). Unit is rather variable in appearance down hole, @ 54.7 m interbeds of maroon jasper, green to buff chert, and epidote alteration reveal a colorful sedimentary unit. Bedding laminations are predominantly 50 deg. t.c.a, with local variations. @ 59-59.5 m unit becomes increasingly grey (quartz rich) and contains 2-3 patches of pyrite with lesser cpy. Aside from this short interval unit contains no sulphides, upper contact is ~50 deg. t.c.a, lower contact

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Depth
(from) (to)
cont...

Description

cannot be determined (broken core).

Mafic Volcanic (Chill Margin)

60.15 64.33 Dark to medium grained mafic unit, slightly different in the mafic generally seen, here weak to moderate fine grained mineral alignment is easily identifiable. The unit appears slightly metamorphosed and possibly hydrated, green schist - low grade amphibolite. Light green coloration suggests pervasive epidote alteration paired with chlorite alteration which is quite obvious along fracture planes. Fabric as usual trends 50 deg. t.c.a, lower contact is staggered by a slightly siliceous interval which appears to grade in to a medium grained version of this mafic, the intrusive equivalent. This unit may in fact be a diffuse chill margin of the intrusive described below.

Gabbro/Diorite

64.33 69.6 Predominantly salt and pepper coloration (plagioclase vs. mafic minerals-pyroxene + hornblende) with local green enrichments due to moderate chlorite and epidote alteration. Overall unit is quite massive but towards lower contact a weak fabric (50 deg.) can be seen. The final 1-2 m of this unit appear rather similar to mafic described above, likely diffuse chill margins

Siliceous Sediment

69.6 71 White to grey metasediment with bedding laminations developed @ 45-50 deg. t.c.a. Unit is predominantly hard chert-like material with local variations, fabric (bedding) is in place contorted, likely early soft sediment deformation. Minor to trace epidote alteration is present, generally as thin veinlets haloed by orange hematite staining. Diffuse contacts that appear to conform to fabric?

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<u>Depth</u>	<u>Description</u>
(from) (to)	<u>Mafic Volcanics (Andesite) / Tuffs (in part)</u>
71 95.9	Medium to dark green mafics which appear to be grading to tufaceous rocks in part. Unit is the typical mafic (Andesite) / tuff as seen in the previous two holes. Epidote, quartz veining with minor associated garnets is common locally (>77.23 m) This hornsfelled alteration is not as pervasive here as seen at depth but definitely indicative of a proximal hydrothermal system. Minor dark ghost like fragments are evident and appear to be somewhat chloritized, as is most of the lithology moderately chloritized, especially evident along broken fracture planes. An abundance of irregularly trending veins and laminations, but most appear to conform to a ~50 deg. fabric consistent with regional fabric. Abundant zones of broken rubbly core, 78.33-82.00 & 93.5 - lct, generally containing moderate chlorite alteration along fracture planes, as well as trace minor epidote and trace hematite. Local intervals of moderately silicified mafics but no associated mineralization. @ ~83.6 m, small (.5 m) diffuse interval of maroon coloration, interpreted to be a thin layer of sediment or possibly a pervasively hematized mafic? Lower contact is broken and diffuse but appears to be @~65 deg. t.c.a.
95.9 97.7?	<u>Felsic (dike?)</u> Buff to slightly tan felsic unit with common feldspar phenocrysts, very hard and siliceous, unit is quite massive with common irregular hairline fractures that are filled with epidote. Minor fracture planes are likewise covered with epidote alteration. Interpreted as a quartz-feldspar porphyry (QFP) dike, lower contact is a 50 degree fault zone of highly altered (clay-mush) gouge.
97.7 98	<u>Fault Zone</u> Broken section of core with obvious fault gouge, structure appear to trend ~50 deg. t.c.a The fault likely occurs within, or adjacent to the QFP, likely because of the brittle nature of this hard lithology, it will not behave ductilely like most of the surrounding lithologies.

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<u>Depth</u> (from)		<u>Description</u>
	(to)	<u>Felsic Volcanic / Intrusive</u>
98	102.49	Grey to moderately brown lithology with fine grained biotite and quartz throughout. Unit is fine grained and is likely an hydrate felsic-intermediate volcanic rather than an intrusive. Biotite suggests hydration by fluids of a nearby intrusive, possibly related to the QFP immediately above and the local fault conduit. A weak to moderate fabric of ~50 deg. t.c.a is identifiable, as well minor quartz veining (laminations) occur likewise at 50 deg. Minor epidote and typical clay like felsic alteration is present especially along fracture planes. This lithology may simply a altered version of the felsic volcanic immediately below. 101.35-101.55: Sizable milky white quartz vein with hornfelsing mineralogy
		<u>Felsic Volcanic/Tuff</u>
102.49	107.79	Dark to medium green, slightly maroon and grey in part, fine grained felsic volcanic interbedded with common intervals of tuff (lapilli tuff in part), unit is quite massive with no indication of fabric, local variations in color are common. Dark to medium green ghost like fragments are common throughout. Minor quartz - epidote veining with trace garnets indicate local hornfels alteration as seen elsewhere in the holes. Both upper and lower contacts are consistent @50 deg. t.c.a. Trace sulphide (py) occur locally (<1%).
		<u>Bimodal Tuff (predominantly felsic)</u>
107.79	123.7	Predominantly dark green variable unit of interbedded bimodal tuffs, and volcanics. Quartz - epidote veins with minor garnet occur locally and appear to be associated with the more massive mafic rocks rather than felsic and mafic tuffs. Overall unit is probably more felsic than appreciated. Unit is so dark and fine grained only the alteration along fracture planes distinguish between felsic and mafic intervals. Ghost like dark fragments are common locally as is weak laminations over short intervals (50 deg. t.c.a). Typical alteration consists of dark green chlorite in mafics and white clay (kaolinite) in felsics is seen on broken core surfaces. Large intervals of irregularly broken core is common, brittle nature of felsic rocks is evident, little ductility. Trace disseminated pyrite occurs locally.

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Depth

(from) (to)
cont...

Description

123.3 - 123.7: Small interval of dark gray to green felsic unit that appears to have been pervasively flooded with quartz veins, unit contains abundant visible fragments surrounded by broken quartz veins and felsic material, a silica flooded section of felsic tuff. Broken contacts that appear to correlate with 45-50 deg. t.c.a.

Mafic (andesite) / Tuff

123.7 181.97 Similar mafic tuffaceous unit as seen throughout, common dark to medium green coloration with variable moderately silicified intervals that appear grey as well as short black (very dark) intervals with visible vitreous fragments likely a felsic volcanic (rhyolite). Overall unit has moderately developed fabric sometimes revealed by quartz epidote laminations or preferentially elongated wispy fragments. Variable amounts of epidote-quartz material (with minor pink garnet) throughout, interpreted as hornfelsing alteration from the Dawe's Pond Granite at depth. Trace amounts of (<1%) sulphide, generally pyrite occur locally, generally as as disseminations associated with quartz veining. Fabric of 45-50 deg. t.c.a becomes more prominent in mafics. Worth noting that core is less broken than the felsics seen above, competency contrast to deformation. @ ~153.32 - 156.3: More massive unit with a trace porphyritic texture and larger grain size, likely a gabbro or diorite intrusive. No alteration or sulphides. Upper contact occurs adjacent large patch of hornfels material trending ~40-45 deg. t.c.a, lower contact is gradational with interval of mafic tuff.
159.2 - 159.7 m: Section of highly broken core, intense chlorite alteration as well as minor fault gouge, interpreted as a fault zone.

Felsic Tuff (silicified mafic?)

181.97 186.53 Dark grey to green lithology with minor brown laminations, unit is very siliceous (hard) and therefore appears to be a felsic-intermediate volcanic. Moderate foliation is developed 45-50 deg. t.c.a. Remnant grey wispy fragments with chlorite altered rims are visible adjacent upper contact. No alteration except for minor chlorite along broken fracture planes (mafic??). Trace (<1%) laminated pyrite occurs locally, @ 185.66 unit becomes a lighter grey a more broken,

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Depth

(from) (to)
cont...

Description

minor epidote and clay alteration present along fractures, minor fault gouge occurs @
186.32, a likely explanation is a fault acted as a fluid conduit resulting in moderate alteration
in the surrounding wall rock. Upper contact is gradational while lower contact is ~ 50 deg. t.c.a.

Gabbro/Diorite

186.53 190.31 Predominantly salt and pepper coloration (plagioclase vs. mafic minerals-pyroxene + hornblende)
with local green enrichments due to moderate chlorite and epidote alteration. Unit is
very massive with no apparent fabric but contacts appear to conform to 50 deg. regional fabric.
Lower contact is a 10 cm zone of intermingled porphyritic intrusive and underlying
tuff.

Mafic / Intermediate Volcanic

190.31 192.11 Short interval of dark green to black volcanic, very fine grained with no mentionable alteration
for minor chlorite along broken fracture planes. Unit is moderately broken up, no apparent
fabric is developed (rather massive), void of mineralization. Lower contact is ~35 deg. t.c.a.

Brown Tuff (Mineralized Zone)

191.11 193.31 Predominantly brown to grey in part, common laminated tufaceous horizon with abundant silica
flooding, unit has been quite pervasively silicified, remnant contorted quartz veins
are present. Minor dark green laminations occur locally and appear to be partially
chloritic possibly elongated chloritized fragments. Sulphides are quite common and constitute ~ 12% of
the modal mineralogy, predominantly pyrite laminations with lesser pyrrhotite (magnetic)
and maybe fine grained brown sphalerite (?), not obvious. Mineralization appears to
be in brown and green laminations rather than broken up quartz component, similar to syngenetic
sulphides observed in hole #3. Unfortunately mineralized zone is quite smaller and not as
heavily sulphidized as seen earlier, zone maybe dying out?

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(from) (to)

Description

Brown (felsic) Tuff

193.31 201.5 Strongly hornfelsed tuff as seen above, with identifiable wispy chloritized fragments throughout. Minor quartz veins are present as well as strong silicification (locally) through unit, sulphides mineralization is less abundant (5-7%), occurring primarily as py-rich laminations and disseminations, with lesser po, minor brown mineral maybe sphalerite or biotite. The most striking difference in this unit is its variable coloration and obvious composition which appears to be pervasively influence by abundant apatite alteration paired in part with silica, garnetiferous apatite patches are common locally. Unfortunately, the hornfelsing alteration has disguised or more likely destroyed prospective brown tuff and associated mineralization. Intervals with less hofelsing contains remnant brown tuff laminations, pervasive silicification and good sulphide content. Final meter adjacent lower contact contains large 5-10 cm massive brown patches with disseminated sulphides dispersed homogeneously throughout, possibly less foliated, less hornfelsed interval of mineralized tuff (brown = Sphalerite?). Diffuse contacts.

Intermediate (bimodal) Tuff (weak mineralization)

201.5 220.64 Dark grey to green in part, well developed foliation, 45-50 deg. t.c.a, apatite - quartz hornfelsing remains very pervasive as irregular patches and crenulated veins. Strong quartz - apatite hornfelsing sometimes accompanied by garnet, especially over local strongly altered intervals. Overall unit is contains minor mineralization, as disseminations and laminations, typically grading 2-3 % and occasionally up to 5 % in less hornfelsed zones. Sulphides are predominantly pyrite with lesser pyrrhotite. Fragmental texture is obvious, dark green to mint green, chloritized and epidotized, ghost like wispy figure are common. Overall, unit appears to grade from felsic tufaceous rocks to mafic tuffs regularly. Down hole minor sulphides becomes associated with the vein-like alteration (hornfelsing), @ 212.4-213.4 m: pervasive hornfelsing is coupled with sulphide laminations that may have some base metal affinity. Also @ 216.86, small 5 cm lamination of sulphide containing good red-brown sphalerite mineralization haloing pyrite, but mineralization seems more veinlike and is staggered by a possible 40 deg. fault at minz lower contact.

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Depth
(from) (to)
cont...

Description

217.7:220.64: Same as above except void of any sulphide mineralization.

Intermediate-Mafic Tuff (Mineralized)

220.64 223.18 Dark green to slightly grey tuffaceous unit with a remnant brown tuff component (trace laminations)
Unit overall contains 10-12% laminated base metal rich sulphides, two discrete 25-40 cm
patches contain ~25% sulphide with predominantly pyrite and lesser (1/3) sphalerite.
Sphalerite is also present as wispy laminations with no associated pyrite, overall unit
appears quite high grade. Sulphides are certainly primary with no quartz vein association,
in fact silica alteration is moderate but homogeneous, trace hornfelsing occurs locally and dark chlorite is common.
Overall unit resembles a moderately silicified mafic-intermediate tuff with abundant laminated
pyrite mineralization haloed by red-brown sphalerite. This interval will likely grade the
best in this hole. Both upper and lower contacts are diffuse and primarily based on
slightly darker color change and increase sulphide content. Moderately developed fabric, 50 deg. t.c.a.

Altered Tuff / Intrusive?

223.18 225.76 Grey to brown unit of well foliated tuff or less likely intrusive. Lithology appears to have been
flooded by silica and hydrate, texture almost appears porphyritic, fine grained brown laminations
texturally surrounding white undulating laminations that resemble interlocked medium grained plagioclase
(or quartz) crystals. Unit becomes pervasively more silicified towards lower contact.
Very fine grained disseminated pyrite is present throughout and may have some indistinguishable
very f.g. sphalerite. Moderate wispy chlorite alteration, diffuse upper contact and 45-50 deg. lct.

Mafic Volcanic

225.76 238.91 Dark to occasionally mint green mafic volcanic, unit is very homogeneous with common weal apatite
and trace chlorite alteration. Moderately developed foliation ~45-50 deg. t.c.a.
Overall unit lack the common hornfelsing except for ~1 m interval adjacent lower contact and from
225.76-227.81: where local hornfelsing is quite intense. There appears to be no
associated alteration or mineralization.

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<u>Depth</u>	<u>Description</u>
(from) (to)	<u>Variable Tuff</u>
238.91	268 Variably colored units of tufaceous / volcanic rocks grading from medium green mafic volcanics and tuffs to grey intermediate-felsic tuffs (or silicified mafics) with common brownier intervals. Overall this stratigraphic section is weakly to moderately (local) hornfelsed with mainly apatite alteration and trace garnets. Sulphides are rare and only occur locally in the more siliceous rocks. Well developed fabric @ 45-50 deg. t.c.a is consistent, minor fractures are likewise conforming to fabric orientation. Rocks appear to become more mafic down hole (from 263 m downward). Overall unit is a common unmineralized volcanic pile as observed in footwall rocks in other holes. Silicified Brown Tuffs @ 238.91-243.9, 249.0-249.7, & ~253-263, intermingled with grey intermediate tuffs. Remainder of intervals grade from homogeneous green mafic volcanics to tuffs in part.
	<u>Mafic Volcanic</u>
268	299.6 Medium green mafic volcanic, occasionally grading to mafic tuffs in part. Weak chlorite alteration is common especially on fracture planes. Irregular and laminated quartz veining is consistent throughout with associated green apatite and trace garnet alteration. Hornfelsing is weak except for short local intervals where hornfelsing mineralogy is abundant (284-289 m). Unit is predominantly quite massive but more tufaceous horizons reveal a ~40 deg. t.c.a fabric. Typical mafic volcanic as seen elsewhere, no associated mineralization. 278.18 & 287.65 m: Short ~5 cm intervals of re-cemented fault gouge, remnant fault zones.
	<u>Gabbro/Diorite</u>
299.6	303.89 Predominantly salt and pepper coloration (plagioclase vs. mafic minerals-pyroxene + hornblende) with local green enrichments due to moderate chlorite and apatite alteration. Unit is very massive with no apparent fabric but upper contact is ~40 deg. t.c.a.
E.O.H	

Total Depth: 303.89 m (997 ft), Oct. 17/00 @ 06:30

<u>Assay Data</u>		<u>Diamond Drill Hole SR-04 Gullbridge Property - Sturgeon River (SR) Prospect</u>								
<u>Sample</u> <u>Number</u>	<u>Depth</u> <u>(from)</u>	<u>(to)</u>	<u>Au</u> <u>ppb</u>	<u>Ba</u> <u>ppm</u>	<u>Fe</u> <u>%</u>	<u>Zn</u> <u>ppm</u>	<u>Cu</u> <u>ppm</u>	<u>Ag</u> <u>ppm</u>	<u>Pb</u> <u>ppm</u>	<u>Cd</u> <u>ppm</u>
88901	191.23	192.23	21	162	7.16	4600	148	0.7	211	30.2
88902	192.23	193.23	18	134	6.42	2800	89	0.5	450	15.9
88903	193.23	194.23	5	194	4.59	1341	129	0.2	513	6.7
88904	194.23	195.23	18	91	6.89	3100	93	0.7	916	12.9
88905	195.23	196.23	5	226	5.55	232	67	0.2	75	0.5
88906	196.23	197.23	14	80	5.48	721	110	0.2	19	4.9
88907	197.23	198.23	5	55	6.04	138	79	0.2	20	0.5
88908	198.23	199.23	5	64	7.23	120	64	0.2	115	0.5
88909	199.23	200.23	5	133	8.71	197	156	0.5	448	0.5
88910	200.23	201.23	5	212	5.82	145	127	0.2	15	0.5
88911	201.23	202.23	5	69	6.22	298	247	0.2	90	0.5
88912	202.23	203.23	5	27	3.57	247	85	0.3	81	0.5
88913	203.23	204.23	5	33	3.36	205	55	0.2	176	0.5
88914	204.23	205.23	5	16	5.26	492	151	0.4	406	1.4
88915	207.6	208.6	5	21	4.54	263	114	0.3	302	0.8
88916	208.6	209.6	5	10	3.78	555	153	0.4	370	3.2
88917	212.4	213.4	5	34	3.63	119	148	0.2	2	0.5
88918	216.7	217.2	56	10	9.91	9200	826	1.8	1603	52.6
88919	217.2	217.7	34	10	8.85	7700	489	0.7	277	44.4
88920	220.64	221.64	47	18	10	19400	1045	1	21	110
88921	221.64	222.64	21	82	10	16900	706	0.7	17	110
88922	222.64	223.14	5	86	9.29	3600	556	0.4	23	29.4
88923	223.14	224.14	5	232	2.81	107	15	0.2	4	0.5
88924	224.14	225.14	5	91	2.48	110	11	0.2	9	0.5
88925	225.14	226.14	5	104	3.47	126	108	0.4	54	0.5