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**Technical Report on a Prospecting and Geochemical Sampling Survey  
On the Strong Lake Claims, Maun Lake Area, Northwestern Ontario**

**Maun Lake Area ( G- 319)  
Thunder Bay Mining Division**

**NTS 42-L-07  
UTM Zone 16  
503300 E 5591300 N**

**Rand Hodgson B.Sc., B.Ed.  
December 1, 2018**

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## **Summary of Work Done**

-2 man days compiling past work done- MNDM files

-22 man days prospecting/mapping/sampling on the claims.

-work done on 100 m line spacing using pace and compass with GPS support.

## Summary

The Maun Township 2018 prospecting program carried out detailed prospecting, mapping and geochemical sampling on a group of claims measuring 1200 x 1400 meters centred on 503300 E, 5591300 N UTM Zone 16. This group consists of 6 MLAS claims - 171249,113277,142508,142507,209237,113278- and 3 MLAS boundary claims- 142506, 220785, and 324044. The main objective was to map and prospect the property with the goal of identifying a possible northeasterly extension of similar lithologies related to the New Athona gold / base metal occurrence located 3000 meters to the south-west, south of Hurd Lake. These gold enriched lithologies are described by the author as felsic agglomerates, breccias, and quartz-feldspar porphyries . Similar lithologies have been mentioned in association with the historical “Megan” occurrence which is located immediately to the southwest of the claims. A connection between these occurrences is inferred. Recent (2018) sampling has identified these mineralized lithologies within 200 meters of the claims along strike to the southwest- including

Pg. 3

several new occurrences up to 23 grams per to Au. Additional research in the MNDM assessment files has identified the Warren Cu.Ni occurrence within this same zone just 150 meters to the west.

## **Introduction**

This report describes a prospecting and geochemical sampling survey carried out on a 168 hectare group of MLAS mining claims in the Maun Lake Area ( G-319) Thunder Bay Mining Division, in north-western Ontario. The survey was carried out during the months of July and August, 2018, by Rand Hodgson and Roland Hodgson, both residing at 287 Swanston Ave. Peterborough Ontario. It was carried out using pace and compass traversing with GPS support. Traverse lines were directed northwest and southeast with 100 meter separation. Eighteen rock samples were analyzed for gold using routine fire assay methodology. The assayer used was SGS Minerals - Lakefield, Ontario. Results are included in the index of this report and are located on the base map (scale 1:5000). Samples are described and GPS located- all coordinates from UTM Zone 16.

## **Property Description, Location and Access**

The Claim group is situated approximately 3 kilometers north of the terminus of the northeast arm of O'Sullivan Lake and straddles Walkup Creek. Access is by road from Nakina to O'Sullivan Lake, then boat across the lake and canoe up Walkup Creek.. Alternatively by float equipped aircraft from Nakina to Strong Lake which touches the north boundary of the property- a distance of about 40 kilometers. Both methods were utilized during this prospecting survey.

The property consists of a single block 6 MLAS claims and 3 MLAS boundary claims for a total area of 168 hectares. Claim registration numbers :

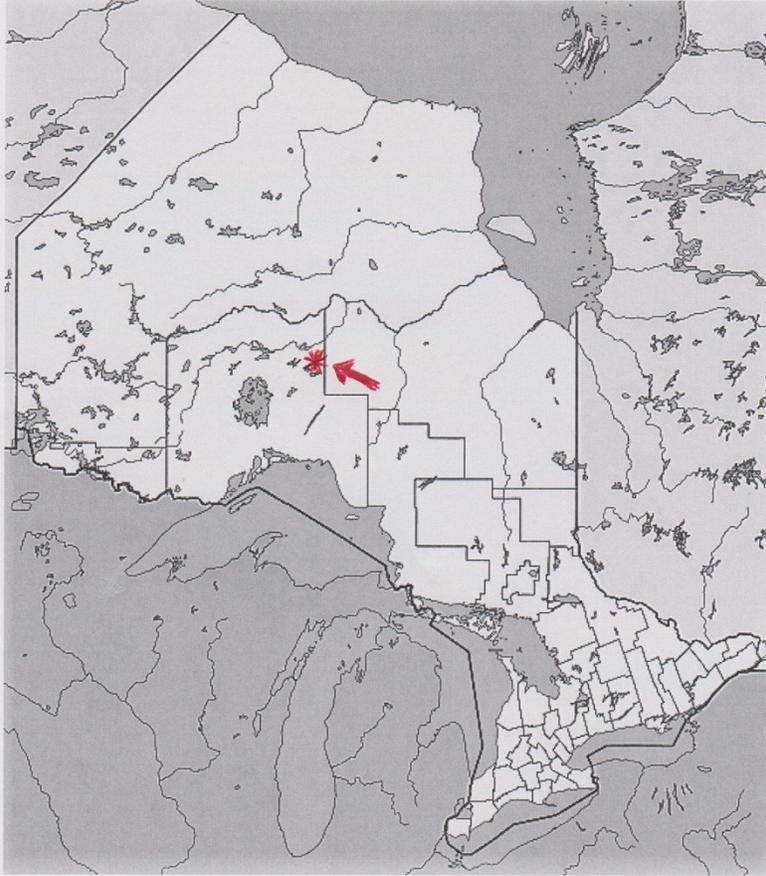
171249, 113277, 142508, 142507, 209237, 113278, 142506, 220785, 324044.

-Provincial cell #'s- 42L07L107, 108, 109, 127, 128, 129, 147, 148, 149.

The claims are registered in the name of Rand Hodgson, CLN # 145101, 287  
Swanston Ave., Peterborough On.

figure I

CLAIMS LOCATION ON  
ONTARIO BASE MAP









## **Topography and Drainage**

This claim group is situated on the relatively low ground surrounding Walkup Creek. Relief is moderate, rising both west and east of the creek about ten meters maximum. The creek drains Strong Lake to the north, bisecting the west half of the claims with a southerly flow to O'Sullivan Lake. The east half of the group is covered with swamp and is drained by 3 separate creeks. The west side of Walkup creek is dominated by a sand ridge. Outcrop is relatively abundant on both sides of Walkup Creek and along a prominent northeast trending ridge which traverses the northern part of the claims.

## **Exploration History**

The area has been mapped by the Geological Survey of Canada (Wilson and Collins, 1904) and the Ontario Geological Survey (Stott, 1984) as well as early mapping by the Ontario Department of Mines ( Hopkins, 1916; Kindle, 1929; Moorehouse, 1955)

Gold and copper were first discovered in the O'Sullivan Lake area in the 1920's, centred on showings on the Osulak Peninsula and northeast of the lake, resulting in a staking rush after WW II, when Osulak Mines started to sink a shaft and carry out underground development. Since that time, several operators have attempted to resurrect the property. The most recent, Mining Corp. of Canada, removed 90,000 tons of 0.33 oz./ ton gold. Since 1950, both gold and base metal exploration has been undertaken throughout the O'Sullivan Lake belt but with only limited success.

Three thousand meters south-west of the property, the New Athona Mines copper-silver-gold occurrence, located 200 m. south-west of Hurd Lake, was investigated by 9 shallow drill holes in 1955. The showing consists of 2

mineralized fracture zones containing arsenopyrite, chalcopyrite, pyrite, marcasite, accompanied by quartz sericite carbonate schists. No strike length was determined.

Seven hundred meters south-west of the claims, Lacana Mining (1984) drilled four into what is referred to now as the Megan-Hurd occurrence. The drill target was a narrow sulphide-rich zone in felsic volcanic. Assays up to 14 grams per tonne (gpt) Au. were reported. The Warren copper- nickel occurrence, located 200 meters west of the property has been the focus of intermittent activity since the 1950's. Historical exploration activity has resulted in significant polymetallic occurrences being discovered- confirming the mineral potential.

## **Regional Geology**

The property is situated within the Kowkash Greenstone Belt, a fairly typical north-east trending greenstone sequence consisting of a mafic to felsic transition, younging to the north, intercalated with intermediate-felsic and chemical sediments (iron formation) The interflow sediments are mainly tuffs, tuff breccias, and siliceous metasediments which carry locally massive iron and copper sulphides with lesser sphalerite, magnetite and arseno.

The greenstones are locally intruded by syngenetic and post-genetic tectonic sills and dykes-gabbro and diabase. Metamorphic grade is generally lower greenschist facies. Structurally, the Kowkash belt has been faulted in a north-east trending strike-slip fashion, resulting locally in strongly sheared highly schistose units. Government airborne geophysics suggest fault offsets of greater than 600 meters.

Regional Geology of Claims Area | Maun Lake Claims | Ontario, 2018

figure V

WHITEFISH EXPLORATION INC.

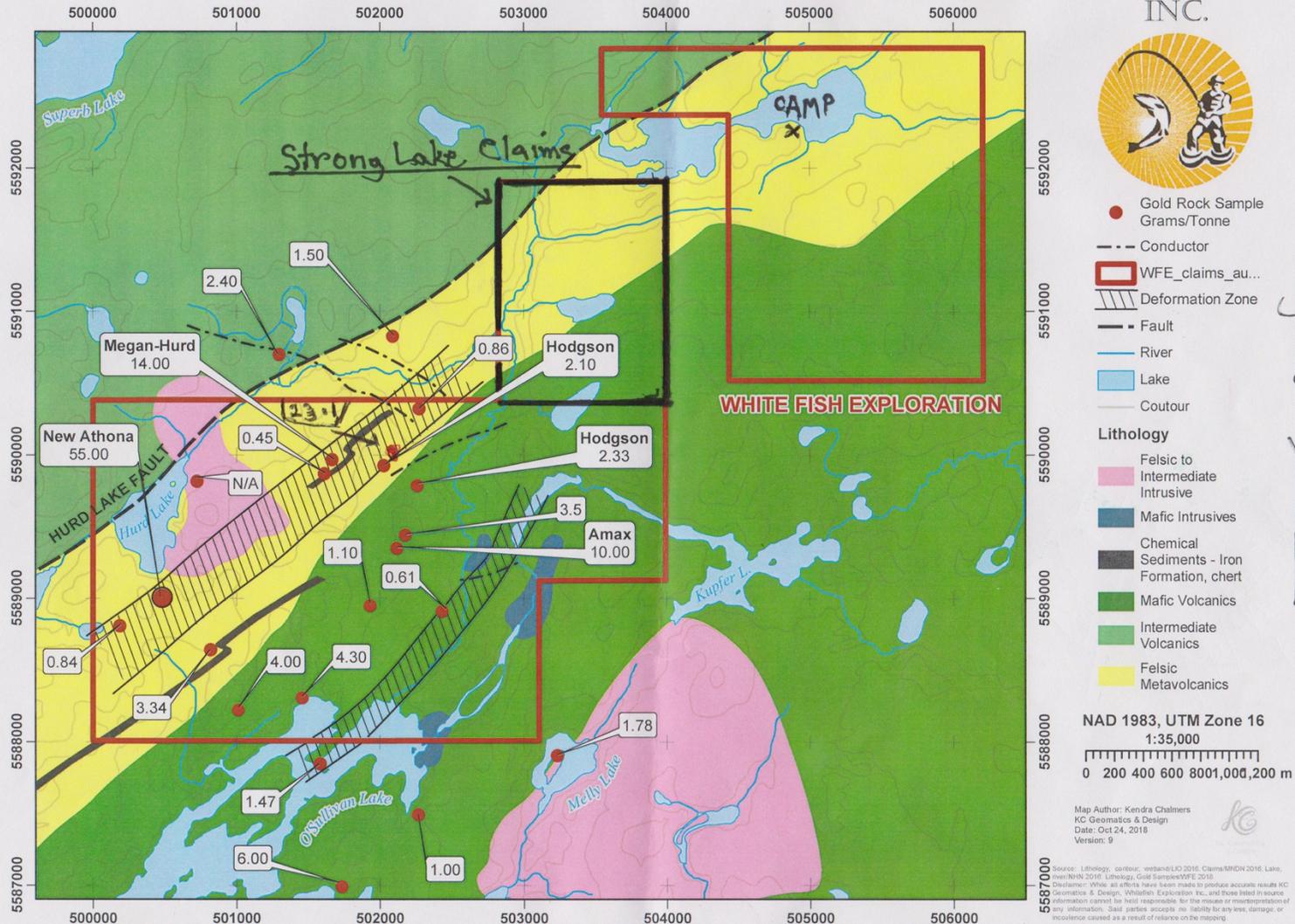


figure V

## **Property Geology**

The property is underlain by a northeasterly trending sequence of primarily mafic volcanic flows .with minor intercalated felsic volcanic flows. Occasionally narrow lensoidal or sill-like gabbroic intrusions locally interfinger with the volcanic.

Minor exposures of felsic intrusive and also diabase dykes have been identified.

Immediately southwest of the claims a zone of deformation has been identified as the probable extension of the deformation zone which hosts the New Athona

occurrence . It is described as felsic agglomerate/breccia with interbedded mafic

volcanics and chemical sediments and local quartz-feldspar porphyries. The zone is

silicified, and contains high anomalous background mineralization- both sulfide

and gold. Also included are local interbedded chert, iron formation, and sericite

schists. This deformation zone is estimated to be about 500 meters thick and

appears to extend south-east to the New Athona occurrence for a total strike length

of 3000 meters and open in both directions. This felsic volcanic unit has been

identified as extending onto the claims, however, its character has changed-to

become less altered, less mineralised; primarily rhyolite flows instead of the mineralized pyroclastic breccias exposed on strike to the southwest. The west half of this property is dominated by mafic volcanic flows-primarily pillow basalts.

The felsic flow unit appears to be offset to the north-west by about 500 meters and then continues along the same strike over and beyond the north boundary of the claims.-see map

## **Mineralization**

Geochemical analyses of eighteen rock samples returned only background levels of gold. The highest assay was 34 parts per billion (ppb) Au. and most were less than 5 ppb. No anomalous sulphide mineralization was observed.

## **Conclusions and Recommendations**

Despite the failure to locate the extension of the mineralized breccia which occurs to the southwest of the claims and the lack of significant assay results, these claims remain interesting for two reasons. First is the fact that a highly mineralized volcanic breccia zone 500 meters thick has been identified immediately to the southwest of these claims. This zone is highly enriched with gold in numerous locations- assayed up to 55 gpt by the author- Hodgson- in only the past few years. (see figure 5- Whitefish Exploration Geology Map)

Secondly, this claim group is handicapped by the presence of large areas of overburden which make a comprehensive geological interpretation more difficult.

A ground induced polarization geophysical survey and soil geochemical survey are both recommended.

## References

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- Smith, Michael, Technical Report on the Hurd Lake Property ,O'Sullivan Lake  
Area O.P.A.P. # OP91-043 M.N.D.M file # 42L07N.W.8040-63.6249 Maun Lake
- Nelson, Cullen,Clark Exploration Consulting Assessment Report on the Aurum  
Property of Superior Canadian Resources Inc. 2005. M.N.D.M assessment file  
#2.30942
- Wells, R.C., Report on the Culhane Property for Lacana Mining Corp., 1984,  
MNDM file # 42L07NW0007
- Whitefish Exploration, 2018, Maun Property, Geology and Gold Occurrences Map

## **Statement of Qualifications**

I, Rand Hodgson , of 287 Swanston Ave. Peterborough Ont., do hereby state –

- 1) That I have been a consulting geologist practicing my profession from the above address since 2001, and have been actively engaged in mineral exploration since 1977.
- 2) That I hold a B. Sc. In geology from the University of Waterloo (1977)
- 3) That I am the author of the report on the Strong Lake claims Maun Lake Area, and that I personally supervised and carried out the field program.
- 4) That the data contained in the report is true to the best of my knowledge.

Rand Hodgson  
B.Sc., B.Ed., December , 2018

## Appendix I

### Strong Lake Group Daily Log of Work Done

July 8/18 - mobilize

July 9 - Travel to Cochrane.

July 10- Travel to Nakina

July 11- Fly in to Strong Lake and camp set-up. Shoreline prospecting.

July 12- Prospecting/mapping south-west from lake on claims 142506, 171249.

July 13- Prospecting/mapping south from lake on claims 113277,142507.

July 15- Prospecting/mapping southwest of small bay onto claims 171249, 142508.

July 16- Prospecting/mapping south from NTS 504000E- east side of claim group

July 17- Prospecting/mapping- east side of Walkup Creek on claim 142506

July 18- Fly out to Nakina- travel to Longlac- set up camp @ Seagram Lake.

Aug. 28- Rain

Aug. 29- Prospecting/mapping - east side of Walkup Creek- claims 209237, 142508

Aug. 30- Prospecting/mapping - west side of Walkup Creek

Aug. 31- Prospecting/mapping southeast quadrant of group-claims 209237, 113278.

Sept. 1- Prospecting/sampling Megan Group breccia zone

## Appendix II

### Strong Lake Group Sample Locations and Descriptions

- R1 - 503100E 5591920N - Mica schist
- R2 - same
- R3 - 503105E 5591915N - mafic volcanic 1% pyrite
- R4 - 503402E 5592187N - rhyolite. Quartz eyes, minor pyrite
- R5 - 503080E 5591905N - float- quartz with 1% cpy.
- R6 - same location - float- mica schist
- R7 - 503805E 5591820N - quartz 1% py.
- R8 - same
- R9 - 503805E 5591825N - quartz feldspar porphyry 1% py.
- R10- 503863E 5591701N - float- chert with py.
- R11- 503966E 5591795N - gabbro, minor py.
- R12- 503020E 5591740N - mafic volcanic gossan 5% py.
- R13- 503070E 5591810N - float- gneiss (sediment?), mag, 5& py.,po.
- R14- 503150E 5590605N - sericite schist, minor py.
- R15- 503009E 5590754N - chlorite schist, 2% py.
- R16- 503490E 5590799N - mafic flow minor py.
- R17- 503354E 5590901N - mafic flow minor py.
- R18- 503730E 5591010N - mafic flow 5% py.



**Certificate of Analysis**  
**Work Order : LK1802245**  
**[Report File No.: 0000017289]**

Date: October 17, 2018

To: **Rand Hodgson**  
White Fish Expl  
**COD SGS MINERALS - GEOCHEM LAKEFIELD**  
185 CONCESSION ST  
PO BOX 4300  
LAKEFIELD ON K0L 2H0

P.O. No.: RAND\_HODGSON Strong Lake  
Project No.: \_DEFAULT  
Samples: 18  
Received: Sep 13, 2018  
Pages: Page 1 to 2  
(Inclusive of Cover Sheet)

**Methods Summary**

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
18	G_WGH79	Weighing of samples and reporting of weights
18	G_PRP89	Weigh, Dry, to 3kg, Crush 75% -2mm, Split to 250g, Pulverize to 85% -75µm
18	GE_FAA313	@Au, FAS, AAS, 30g-5ml

**Storage: Pulp & Reject**

PULP STORAGE : DISCARD

**Comments:**

Assays not suitable for commercial exchange.

Certified By :

Brett Pipher  
Project Coordinator

**SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at <http://www.scc.ca/en/programs/lab/mineral.shtml>**

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample  
n.a. = Not applicable -- = No result  
\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted  
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Report File No.: 0000017289

Element Method Det.Lim. Units	WtKg G_WGH79 0.001 kg	@Au GE_FAA313 5 ppb
R01	1.417	<5
R02	1.045	<5
R03	1.106	<5
R04	0.829	<5
R05	1.248	<5
R06	0.996	<5
R07	0.988	<5
R08	1.120	<5
R09	1.021	<5
R10	0.676	6
R11	0.337	<5
R12	0.703	34
R13	1.520	<5
R14	0.712	<5
R15	1.040	9
R16	0.422	6
R17	1.214	<5
R18	1.185	14
*Rep R07		7
*Std OREAS-216		6921
*Blk BLANK		<5

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