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### 2022 ASSESSMENT WORK REPORT



# Muskasenda Project

December 19, 2022

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### MUSKASENDA PROJECT



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### MUSKASENDA PROJECT SUMMARY

Project Name: Muskasenda Project

Target: Au

Claim units: 18 mining cells

**Location:** English Township, Porcupine Mining District of Ontario.

Ownership: 100% DH Exploration Inc.

**Highlights:** 

--Gold zones on the property are associated shear zones and quartz veins in metagabbro rock formations. The gold is contained in a quartz-carbonate vein. The sheared metagabbro adjacent to the veins is strongly chloritized, and locally silicified, carbonatized, and mineralized with pyrite, pyrrhotite, and minor chalcopyrite.

-Work programs in 2019-2022 confirm multiple historical gold zones. Results of sampling indicated the presence of gold in economic concentrations potentially suitable for mining.

-Historical drill results at the "south" showing intersected sections of gold in four gold being zones returning values from a quartz vein that assayed 0.14 oz/t Au (4.3 g/t) over 5 feet (1.5 m) at a vertical depth of 260 feet (79 m). 20 feet below, the hole hit section of 0.32 oz/t Au (10 g/t) over a length of 2 feet (0.6 m) at a vertical depth of 275 feet (83.3 m). Samples taken on surface also assayed 0.14 oz/t (4.3 g/t) over 1.1 m.

-E.G. Bright obtained a selected sample of crumbly, limonite-coated quartz and wall rock gouge which assayed 13.4 oz/t Au, 13.1 oz/t Ag, and 1.66% Cu.

-Preliminary sampling in 2017-2019 work programs returned gold values of **0.97**, **2.65**, **3.57**, **4.72** g/t.

-Channel sampling at the "D.H. musky shear" completed on Nov 2 and Nov 5, 2019 returned encouraging gold values from 292 ppb to 6.71 g/t over 1 m. V2 returned the highest result at an average of 6.09 g/t over 2 m, followed by V1 at 1.19 g/t over 2 m, and V3 at 0.44 g/t over 2 m. V1 (a) returned 5.27 g/t over 1 m and V2 (b) at 6.71 g/t over 1 m. All nine samples averaged 1.9 g/t over 9 m.

-Samples collected at west showing up to 24.5 g/t Au from 2019-2022





### MUSKASENDA PROJECT INTRODUCTION

### Introduction

The Muskasenda project is proving to be an underdeveloped property with rich gold deposits. The work program to date included prospecting and sampling, manual surface stripping, power washing, and channel sampling. The programs were completed during the years of 2017-2022 with the purpose focussed on the following.

- A) Locate historical pits and trenches
- B) Verify gold values in existing trenches and pits
- C) Prove widths
- D) Prospect new areas





# MUSKASENDA PROJECT LOCATION AND ACCESS

#### Location

The Musksenda property is located at the south end of Muskasenda Lake, in the English township, in the Porcupine Mining District of Ontario, Canada. The property is centred close to E: 475318, N: 5323763, approximately 45 km south of TImmins, Ontario. The Timmins mining camp proves to be one of the most prolific mining districts of the world. Over 260M+ ounces of gold produced over the past 110+ years from many prolifically known gold mines and to this day mining is still the dominating industry in the region. Seen below is a map outlining the property location in Ontario.

#### Access

Access to the property is obtained by travelling south from TImmins, ON via Pine Street into a well-maintained gravel road, Naybob Road for approximately 52 km. A logging road is travelled in a westerly direction for 7 km into the property. Seen below in Figure 2 is a map with the illustrated access route from Timmins, ON. Round trip - 140 km. Two photos below Figure 2 illustrate the conditions on Pine Street south in various seasons.



Figure 1: Location of the DH Exploration Inc - Muskasenda Project

# MUSKASENDA PROJECT LOCATION AND ACCESS



Figure 2: Access to the Muskasenda Project



Naybob Road - Fall (Oct 25, 2019)



Naybob Road - Fall (Oct 29, 2019)



### MUSKASENDA PROJECT LAND TENURE

#### **Land Tenure**

The property is composed of 18 unpatented mining claim cells, located in the English township, in the Porcupine Mining District of Ontario. The size of land package is 321 hectares or 794 acres. A claim map of the property can be seen below in Figure 3.

#### Assessment Schedule:

The property requires a minimum of \$7,200 of assessment work on a yearly basis. The assessment schedule is as follows:

Project Area	Units	<b>Due Date</b>
Muskasenda South	3	February 10, 2023
Muskasenda West	15	Dec 19, 2022



Figure 3: Claim Map for Muskasenda South



### MUSKASENDA PROJECT LOCAL RESOURCES

#### **Topography, Vegetation and Climate**

The topography consists of an array of conditions, generally of low-relief or less than 30 m. The relief on the edges of Muskasenda Lake tends to be extreme with cliff faces. Large swamps and northeast ridges cover most of the area.

Glacial overburden is extensive and variable in depth with rock outcrops generally confined to ridges and knobs in the swamps.

The vegetation is locally dense and composed of a second growth of typical northern species of trees: spruce, jack pine, and poplar with cedar and alders in lower areas.

During the summer months the average temperature is between 15-25 degrees Celsius, while the winter months fall between -15 to -25 degrees Celsius with 122 cm of snowfall in 2018-2019. The topography and vegetation can be seen in the photos below.







Muskasenda Property - Vegetation in Summer



### MUSKASENDA PROJECT GEOLOGY

#### **Regional Geology**

The geology of the area is described in the Ontario Geological Survey Report 231. This is heavily relied upon for the geological description of the area and been quoted directly for some parts of this section.

The area is part of the Abitibi Metavolcanic-Metasedimentayu Belt of the Superior Province of the Canadian Sheild. The bedrock consists mainly of Early Precambrian (Archean) metavolcanics and mafic to felsic plutonic rocks. A few, Middle to Late Precambrian diabase dykes are present. Most of the bedrock is mantled by thick Pleistocene glacial deposit of silt, sand and recent alluvium.

Two cycles of volcanism are recognized in Beemer, English and Zavity townships, The older cycle mainly in Beemer and English townships consist of a lower sequence of mafic to intermediate metavolcanics and an upper sequence of flesic volcanics. Oxide and sulphide facies iron formations are restricted to the cycle to the east in Zavity township consists of a lower unit of ultramafic metvolcanics an associated Mg-rich mafic metavolcanics and an upper thick sequence of mafic to intermediate metavolcanics.

Numerous small, early tectonic, magic to ultramafic sills and several large layered, mafic to ultramafic sill complexes intrude the metavolcanics, in particular the fesic metavolcanics.

During the regional east-west folding of the rocks, the western part of the area was intruded by the margin of a large granitic batholith composed mainly of granodiorite quartz monzonite, porphyritic granodiorite, and in some place porhphyritic syenite were subsequently emplaced within the metavolcanics succession. Regional metamorphose ranges from lower greenshicst facies to amphibolite facies near the margin of the batholith.



### MUSKASENDA PROJECT GEOLOGY

### **Property Geology**

The following description of the geology of the property is taken form Report 231 as E.G. Bright visited the property in 1967.

The geology of the property has not been mapped in detail, around the showing by the previous operators or, if it has, the mapping has not been filed for assessment work.

"The entire claim group straddles the contact between a thick unit of mafic to imdermeiate metavolcanics and an overlying unit of felsic metavolcanics. The north-trending Muskasenda Lake metagrabbrioc sill complex, which was emplace along the contact between these two metalvolcins sequences, underlies the central part of the property This major intrusive complex consists of a lower pyroxenite-gabbros sill along the west and south shores of Muskasenda Lake and an upper gabbros sill along the east shore of the lake. Screens of intermediate to felsic pyroclastic separating the two sins are exposed along the shore and on some of the islands in the lake. Both the metavolcnis and metagabbro exposed along the Southern an western parts of Muskasenda Lake are cut by strong north east trending shear-fracture system. The sheared country rock is locally mineralized with disseminated pyrite and minor chalcopyrite, and cut by late tectonic quartz-feldspar porphyry dykes, and lamprophyre dykes; and numerous veins, m strings, and stock works of quartz, quartz-calcite and epidote-carbonite.

Detailing of lithology can be seen on the following in a geology map.



### MUSKASENDA PROJECT GEOLOGY

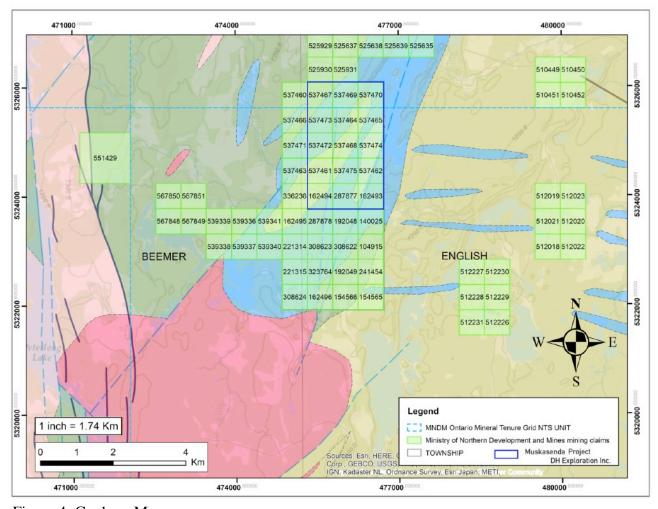


Figure 4: Geology Map



### **Project History**

Geological examinations of the area date back to 1896 by E.M. Burwash of the Ontario Bureau of Mines. Geological examinations by W.A. Parks, T.L. Gledhill, E.G. Bright and D.R. Pyke. Tincreased the knowledge in the area. In 1984, the Ontario Geological Survey published Report 231 entitled "Geology of the Ferrier Lake-Canoeshed Lake Area, District of Sudbury". The report by E.G. Bright compiled all he previous information acting as a major source of geological information about the area. Descriptions are included in the report detailing the "south" showing at Muskasenda Lake.

Prospecting of the south showing dates back to 1935 when J.C. Nelson discovered gold on the southern shore of Muskasenda Lake.

1935: Sylvanite Gold Mines Limited carried out trenching and sampling. An 80 foot (24 m) wide shear zone was traced for 700 feet (213 m). Within the shower it is reported that a section 3.2 feet (1 m) wide and 28 feet (8.5 m) along strike averaged 0.14 oz/t Au (4.8 g/t). Grab samples from the difference areas ranged from 0.20-1.32 oz/t Au (6.9 -4 5.3 g/t).

**1965**: Transterre Exploration Limited optioned claims from Ned Bragagnola and explored the south showing and sunk five diamond drill holes holes totalling 1800 ft length over the main gold-bearing zone with encouraging results. Directly beneath the showing, at a vertical depth of 260 feet (79 m) hole C-1 intersected a section of a gold schist that assayed 0.14 oz/ton Au (4.35 g/t) over 5 feet (1.52 m) from 330'-335'. In the same hole, 20 feet below the schist, a quartz vein was intersected that assayed 0.32 oz/ton Au (9.95 g/t)

Hole C-2, 3 and 5 intersected low grade gold values, 0.01-0.03 oz/ton Au (0.3 - 1.0 g/t).

Hole C-4 was drilled on the same section as C-1 and closer to surface although no assays were reported.

**1968**: Frank Boychuck acquired claims encompassing the south showing. He carried out trench ing and blasted a showing 150 m south east of the original. A 20 foot section exposed 3 gold bearing



**1974**: C.T. Bischoff chip sampled the veins at the south showing, competed an engineer report and reported the following results:

Vein #1: 0.96 oz/ton Au (32.9 g/t) and 3.4 oz/ton Ag (116 g/t) over 0.5 feet

Vein #2: 0.11 oz/ton Au (3.8 g/t) and 0.10 oz/ton Ag (3.4 g/t) over 3.0 feet

Vein #3: 0.02 oz/ton Au (0.7 g/t) and 0.14 oz/ton Ag (4.8 g/t) over 2.0 feet

Boychuck, the property holder, drilled 2 diamond drill holes approximately 150 m south east of the previous drilling on the south showing (the C-series holes).

B1, a vertical hole intersected 9 m of mineralized porphyritic material containing about 10% pyrite. Apparently only 0.9m of this material was assayed and reported to assay 0.18 oz/ton Au (5.59 g/t). It is very surprising that the rest of the 9 m intersection was not assayed. The second hole drilled to the north west from the same location did not interested any economic mineralization.

**1982**: Amax Minerals Exploration Ltd. acquired the claims covering the south showing. The work completed by Amax was airborne geophysical surveys, magnetic and multi-frequency EM and VLF EM surveys, prospecting and sampling. The area was also mapped using air photos as a base.

A shear zone in vicinity of the B-series holes was sampled with assays up to 0.24 oz/ton Au (7.4 g/t).

**1984:** Marjel Roureces Inc. acquired the claims covering the south showing. The completed work entailed line cutting, blasting, and chip sampling. Gold values in this work indicate gold is present in concentrations of possible economic interest. These sampling records are the most complete of all the surface sampling to date.

**1987-1988:** HSK Minerals Ltd. acquired the property and carried out ground geophysical surveys on southern parts of the property. Property optioned to American Barrack Resources Corporation and completed an airborne geophysical survey followed by 790 m of diamond drilling directed at the west showing. All the information is not available, however the drill logs that were filed as assessment work indicate that gold was interested with the best intersection in Hole 87-3. At the shallow depth of 20 feet a 12 foot section assayed 0.21 oz/t Au (7.1 g/t) over 3.7 m including a 7 foot section of 2.6 oz/t Au (8.8 g./t) over 2.1 m.



In 1988 5 holes were drilled in the vicinity of the west showing with the best intersection in hole 88-7 being 2.2 g/t over 0.26 m.

1992: Ed Ludwig and partner Peter Harvey under agreement with NHSK completed 6 drill holes on the west showing area. The results were not filed for assessment and apparently the information has been lost, however Mr. E Ludwig says the holes successfully interested the gold bearing zones. Apparently a section in hole 92-6 assayed 0.29 oz/t (9.9 g/t) over 2.1 m.

**1994:** Driver Resources carried out line cutting and geophysical surveys.

**1998**: Starfire Minerals Inc. carried out an induced polarization survey. The survey helped to define certain structure and lithological features on the property with recommendations to diamond drill the IP anomalies.

**2006:** EM Resources Inc. acquired the property and drilled a total of 485 metres of BQ sized core in 8 holes.



#### **Mineralization**

The main south showing at the Muskasenda property is described as three distinct areas of gold mineralization spaced 50 feet apart, hosted by rho-dacite containing 2% disseminated pyrite. Ed Ludwig classifies the south showing into three areas of mineralization:

#### A) Area (i)

Occurs as a shear 6 inches wide, mineralized with massive pyrite and chalcopyrite and xut by quartz carbonate stringers. The shear strikes north and dips 35 degrees northeast. Government documents reported an assay of 13.4 ounces of gold per ton and 13.1 ounces of silver per ton. Other assays from the shear are 0.96 ounce of gold per ton (Bischoff 1974) and 0.244 ounce of gold per ton.

### B) Area (ii)

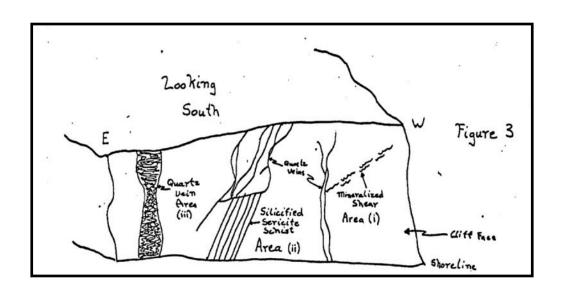
Is a silicified sericite schist, 3.5 feet wide, striking N 35 degrees E, dipping 50 depress east and plunging 50m degrees. This exposure seems to represent the top of the schist. Trasterre drilling intersected it at a depth of 260 feet (figure \_\_\_\_\_). The schist is foliated, mineralized with 10-30% disseminated pyrite and 1-2% chalcopyrite, also containing blebs of chlorite and fuchsia. Minor quartz carbonate veinlets cut the schist along foliation planes and at random orientations.

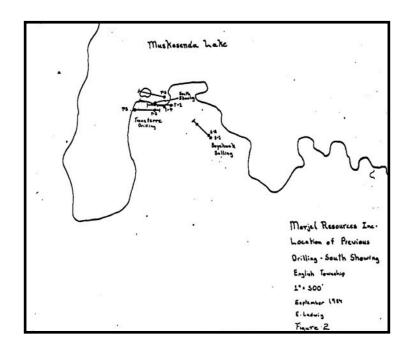
Assay data from the schist is as follows:

- 1) 0.11 oz/ton Au (3.42 g/t) over 3 feet chip sample (Biscoff 1974)
- 2) 0.14 oz/ton Au (4.47 g/t) over 4 feet chip sample (Marjel 1984)
- 3) 0.22 oz/ton Au (6.84 g/t) grab sample (Marjel 1984)
- 4) 0.04 oz/ton Au (1.24 g/t) grab sample (Marjel 1984)
- 5) 0.15 oz/ton Au (4.78 g/t) grab sample (Marjel 1984)
- 6) 0.34 oz/ton Au (10.5 g/t) grab sample (Mariel 1984)
- 7) 0.08 oz/ton Au (2.48 g/t) grab sample (Marjel 1984)
- 8) 0.02 oz/ton Au (0.62 g/t) grab sample (Marjel 1984)

### A) Area (iii)

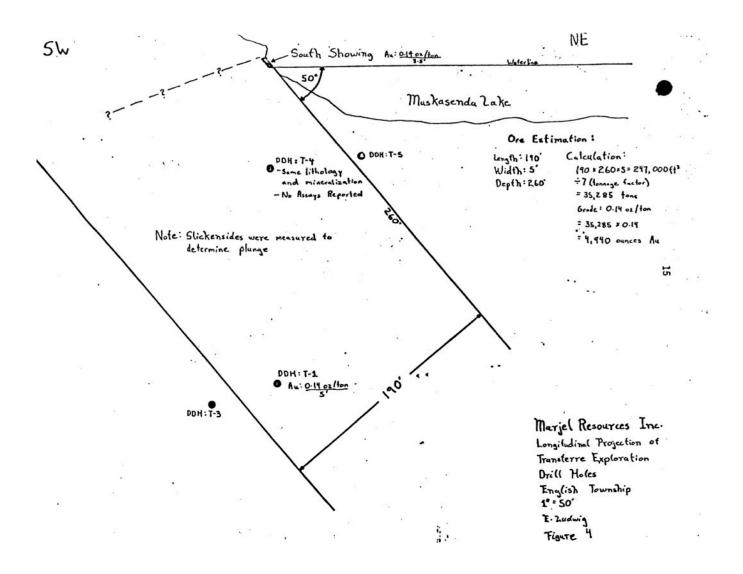
Is a quartz vein that is mineralized with 5% disseminated pyrite and chalcopyrite, containing minor carbonate and sparse flakes of fuchsite. Drilling intersected this vein at a vertical depth of 275 feet (Hole C-1), where a two-foot section assayed 0.32 ounce of gold per ton (9.95 g/t). Grab samples taken by Marjel averaged 0.16 ounces of gold per ton (4.97 g/t).



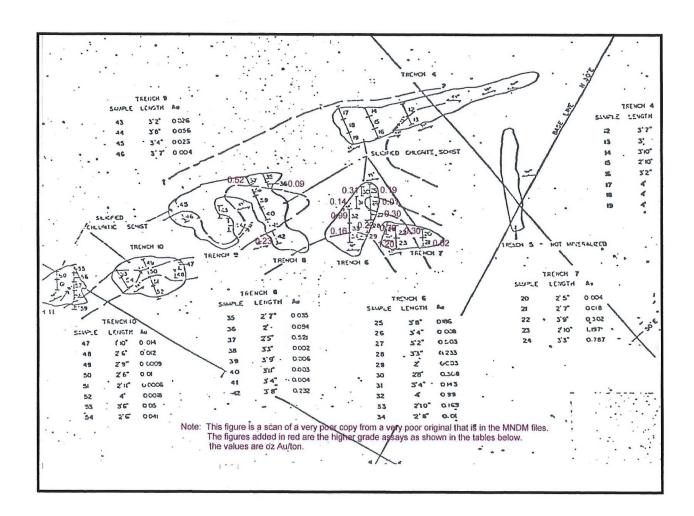




### **Longitudinal Projection of the Transterre Exploration Drill Holes**



### **Plan of Trenches West Showing**





### **West Showing Drill Index - Highlights**

#### Muskasenda West Showing - Drill Library Index

Hole	From (ft)	To (ft)	Length (ft/m)	Au (Troy oz/ton)	Au (g/ton)
87-1	21	26	5 (1.52)	0.022	0.68
	31	35	4 (1.21)	0.035	1.08
87-2	0	5	5(1.52)	0.051	1.58
	18	23	5(1.52)	0.033	1.02
	23	28	5(1.52)	0.034	1.02
	32	36	4 (1.21)	0.024	0.74
87-3	15	20	5(1.52)	0.031	1.02
	20	25	5 (1.52)	0.138	4.29
	25	32	5 (1.52)	0.257	7.99
87-8	179	184	5 (1.52)	0.130	4.04
	184	189	5 (1.52)	0.133	4.13
87-11	233	239	6 (1.82)	0.120	3.73
	268	273	5 (1.52)	0.139	4.32
88-5	327.42 (99.80)	329.39 (100.40)	1.96 (0.6)	0.040	1.26
88-7	329.97 (119.78)	393.83 (120.04)	0.85 (0.26)	0.069	2.16
06-4	141 (43)	144.35 (44)	3.28 (1)	0.216	6.72
06-6	134.18 (40.9)	138.77 (42.3)	4.59 (1.4)	0.065	2.04
	138.77 (42.3)	143.04 (43.6)	4.26 (1.3)	0.033	1.05
	143.04 (43.6)	145.01 (44.2)	1.96 (0.6)	0.044	1.37
06-07	226.37 (69)	228.01 (69.5)	1.64 (0.5)	0.098	3.05
	228.01 (69.5)	229.65 (70)	1.64 (0.5)	0.034	1.08
06-08	55.77 (17)	59.05)	3.28 (1)	0.08	2.52
	75.45 (23)	78.74 (24)	3.28 (1)	0.123	3.83
	80.02 (25)	85.39 (26)	3.28 (1)	0.022	0.73



### Work Program - 2019 to 2022

The work program totalled 20 days in field and 2 days in office to draft the work report and yielded an assessment value of \$22,388.

The work program completed at Muskasenda project identified the presence of gold in grades that may be of economic interest. The purpose of the work programs was to:

- A) Locate and prospect historical pits and trenches
- B) Verify gold values in existing trenches and pits through sampling
- C) Obtain current results to establish a follow-up work program.

To date the work completed includes prospecting and sampling, manual surface stripping, trail maintenance, trench dewatering and channel sampling.

The main focus of this work program was to locate, identify and start re-sampling the Muskasenda West Showing.

Sampling at the time of work program was restricted to Trench #7 (GPS: 475547 E, 5324770 N) - a small trench approx. 3m X 2m in size with 2m depth. All samples sent for assay were collected from trench 7 described to be "hosted by a silicified chlorite schist mineralized with 5-50% disseminated pyrite and traces of chalcopyrite. The schist was cut by many later quartz carbonate veinlets at random locations, with movements along foliation planes causing them to be contorted into drag folds and small scale plunging synclines and anticlines." (Marjel Resources, 1984).

Reference points were obtained using hand-held GPS devices (Garmin GPSMAP 64st, Garmin Etrex 20, and Garmin GPSMAP 66s).

19 rock samples were sent to Act Labs in Timmins, ON for Au Fife Assay AA



Sample description: samples collected and sent for assay consisted of silicified chlorite schist with quartz and or metagabbro mineralized with disseminated pyrite and traces of chalcopyrite. All collected from Trench #7 at the West Showing (UTM: 475547E, 5324770N).

Samples that were not sent for assay are described in the work log.

### Assays values as follows:

Analyte Symbol	Au	Au			! ! ! !
Unit Symbol	g/mt	g/tonne			
Detection Limit	0.005	0.03			
Analysis Method	FA-AA	FA-GRA	Type of Sample	Easting	Northing
Musk(W)-19-01	0.222		Chip	475547	5324770
Musk(W)-19-02	0.131		Chip	475547	5324770
Musk(W)-19-03	5.76		Chip	475547	5324770
Musk(W)-19- TR07-01	> 10.0	11.4	Chip	475547	5324770
Musk(W)-19- TR07-02	> 10.0	11.3	Chip	475547	5324770
Musk(W)-19- TR07-03	> 10.0	11	Chip	475547	5324770
Musk(W)-19- TR07-04	> 10.0	11.2	Chip	475547	5324770
Musk(W)-19- TR07-05	3.02		Chip	475547	5324770
Musk(W)-19- TR07-06	0.079		Chip	475547	5324770
Musk(W)-19- TR07-07	5.37		Chip	475547	5324770
Musk (W)-19- TR07-08	> 10.0	19.6	Chip	475547	5324770
Musk (W)-19- TR07-09	8.3		Chip	475547	5324770
Musk (W)-19- TR07-10	7.17		Chip	475547	5324770
Musk (W)-19- TR07-11	> 10.0	15.6	Chip	475547	5324770
Musk (W)-19- TR07-12	4.74		Channel over 1 m	475547	5324770
Musk (W)-19- TR07-13	1.14		Channel over 1 m	475547	5324770
Musk (W)-19- TR07-14	> 10.0	24.6	Channel over 1 m	475547	5324770
Musk (W)-19- TR07-15	> 10.0	18	Channel over 1 m	475547	5324770
Musk (W)-19- TR07-16	0.35		Channel over 1 m	475547	5324770



### Map of sample locations for work report

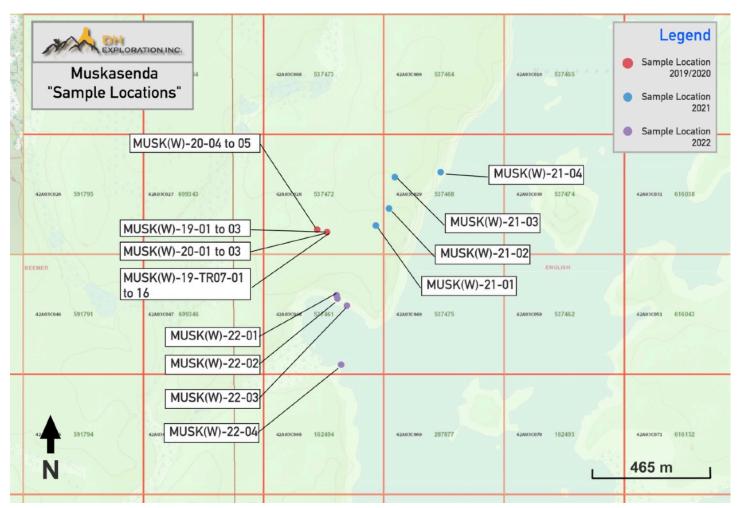


Figure 4: Sample Location Map



				Re	sults			Acti	vation	Labo	ratorie	s Ltd.			F	eport	A19-	10821					
Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	В	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%							
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP										
Musk(W)-19-01	< 0.2	< 0.5	42	2210	6	8	2	29	0.71	11	< 10	< 10	< 0.5	< 2	7.58	20	8	8.54	< 10	< 1	0.02	< 10	2.68
Musk(W)-19-02	< 0.2	< 0.5	29	1630	11	7	6	31	0.83	10	< 10	< 10	< 0.5	< 2	6.06	19	4	8.11	< 10	< 1	0.02	< 10	2.26
Musk(W)-19-03	0.3	< 0.5	24	795	1	8	5	59	2.18	7	< 10	< 10	< 0.5	< 2	2.81	25	10	8.25	10	1	0.01	< 10	1.76
Musk(W)-19- TR07-01	0.5	< 0.5	38	1010	2	7	5	16	0.70	4	< 10	< 10	< 0.5	< 2	5.07	17	17	4.53	< 10	< 1	0.01	< 10	0.76
Musk(W)-19- TR07-02	0.5	< 0.5	61	1070	< 1	10	6	39	1.67	10	< 10	13	< 0.5	2	5.29	36	16	7.89	< 10	< 1	0.04	< 10	1.31
Musk(W)-19- TR07-03	0.6	0.6	44	1110	1	9	3	27	1.13	7	< 10	< 10	< 0.5	< 2	5.52	25	17	5.78	< 10	< 1	0.01	< 10	1.06
Musk(W)-19- TR07-04	0.5	0.5	36	814	2	11	< 2	92	3.31	7	< 10	< 10	< 0.5	< 2	2.18	44	2	10.9	20	1	< 0.01	< 10	2.76
Musk(W)-19- TR07-05	< 0.2	< 0.5	51	1110	< 1	10	<2	13	0.49	8	< 10	< 10	< 0.5	< 2	4.48	12	9	3.75	< 10	< 1	0.02	< 10	0.90
Musk(W)-19- TR07-06	< 0.2	< 0.5	64	1260	< 1	46	< 2	56	2.82	< 2	< 10	< 10	< 0.5	< 2	6.50	29	42	7.82	10	< 1	< 0.01	< 10	1.88
Musk(W)-19- TR07-07	0.2	< 0.5	19	692	2	10	4	21	0.86	15	< 10	< 10	< 0.5	< 2	2.93	31	20	5.22	< 10	< 1	0.01	< 10	0.80

Results	Activation Laboratories Ltd.	Report: A19-10821

Analyte Symbol	Na	Р	S	Sb	Sc	Sr	Ti	Th	Te	TI	U	V	W	Υ	Zr	Au	Au
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	g/mt	g/tonne							
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.005	0.03
Method Code	AR-ICP	FA-AA	FA- GRA														
Musk(W)-19-01	0.058	0.074	2.42	< 2	19	245	0.07	< 20	< 1	< 2	< 10	59	< 10	6	5	0.222	
Musk(W)-19-02	0.072	0.085	2.97	< 2	17	181	0.09	< 20	2	< 2	< 10	78	< 10	5	6	0.131	
Musk(W)-19-03	0.066	0.066	2.05	< 2	28	73	0.14	< 20	< 1	< 2	< 10	170	< 10	5	5	5.76	
Musk(W)-19- TR07-01	0.072	0.057	2.12	< 2	12	137	0.07	< 20	2	< 2	< 10	53	< 10	6	4	> 10.0	11.4
Musk(W)-19- TR07-02	0.042	0.030	3.59	< 2	23	128	0.12	< 20	< 1	< 2	< 10	145	< 10	6	6	> 10.0	11.3
Musk(W)-19- TR07-03	0.047	0.029	2.55	< 2	17	144	0.07	< 20	2	< 2	< 10	83	< 10	5	4	> 10.0	11.0
Musk(W)-19- TR07-04	0.029	0.061	2.47	< 2	39	57	0.14	< 20	< 1	< 2	< 10	253	< 10	4	6	> 10.0	11.2
Musk(W)-19- TR07-05	0.109	0.051	1.64	< 2	10	128	0.05	< 20	< 1	< 2	< 10	26	< 10	4	2	3.02	
Musk(W)-19- TR07-06	0.025	0.032	0.57	3	27	144	0.09	< 20	< 1	< 2	< 10	214	< 10	8	3	0.079	
Musk(W)-19- TR07-07	0.063	0.037	2.77	< 2	12	76	0.08	< 20	< 1	< 2	< 10	60	< 10	3	4	5.37	

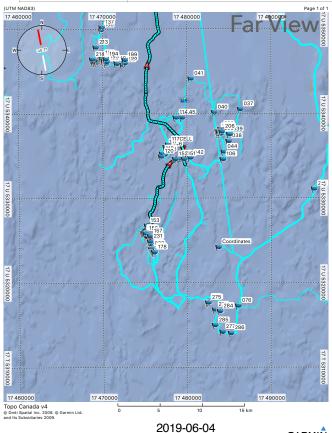
Results Activation Laboratories Ltd. Report: A19-12973

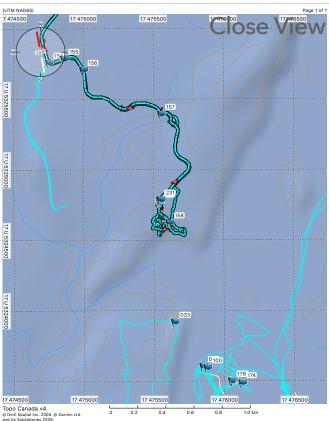
Analyte Symbol	Au	Au
Unit Symbol	g/mt	g/tonne
Lower Limit	0.005	0.03
Method Code	FA-AA	FA- GRA
Musk (W)-19-TR07-08	> 10.0	19.6
Musk (W)-19-TR07-09	8.30	
Musk (W)-19-TR07-10	7.17	
Musk (W)-19-TR07-11	> 10.0	15.6
Musk (W)-19-TR07-12	4.74	
Musk (W)-19-TR07-13	1.14	
Musk (W)-19-TR07-14	> 10.0	24.6
Musk (W)-19-TR07-15	> 10.0	18.0
Musk (W)-19-TR07-16	0.350	



### **Work Log**

	2019-06-04 to 2019-06-14
<b>Activity:</b> Prosp	ren Heath (Prospector Licence: 1013380), Serge Falardeau pecting rospecting equipment, ATV, transfer pump, chainsaws, water pump
Date	Work Complete
2019-06-04	Traversed the GPS path shown below. Located a series of trenches known as the Muskasenda West showing. GPS: 475547 E, 5324770 N. Collected samples MUSK(W)-19-01 to MUSK(W)-19-03. Traverse can be seen in map below.
2019-06-14	Travel to property and setup trailer for sleep accommodation. Work on trail maintenance around pond (60 m). Work on access trail maintenance into showing (70 m) over hills and uneven terrain into west showing.
2019-06-15	Continue work on trail maintenance around pond (60 m). Continue work on access trail maintenance into showing (70 m) over hills and uneven terrain. Clear trees and brush Trench #7 at west showing.
2019-06-16	Geared up ATV with transfer pump and equipment and drove to closest point to west showing on forestry road. Haul equipment into showing (70 m). Pump out Trench # 7. Delimbed brush around trench. De-water Trench #7 to a level that exposed a mineralized chlorite shist w/ quartz carbonate veins and fractures heavily mineralized with disseminated pyrite, chalcopyrite. Vein is irregular and dipped at approx 70 degrees. Collected samples: Musk(W)-19-TR07-01 to Musk(W)-19-TR07-04. De-moab equipment and travel from property.





2019-06-04



	2019-07-12 to 2022-09-25
Activity: Prospe	n Heath (Prospector Licence: 1013380), Serge Falardeau cting specting equipment, ATV, transfer pump, chainsaws, water pump, channel saws
Date	Work Complete
2019-07-12	Travel to property and setup trailer for sleep accommodation. Moab equipment into site. Clear brush around showings at West Showing.
2019-07-13	Examine trenches. Collected samples: Musk(W)-19-TR07-01 to Musk(W)-19-TR07-04.
2019-07-14	De-moab equipment. Travel from property.
2019-07-16	Travel to property and setup trailer for sleep accommodation. Moab equipment into site. Collected samples: Musk(W)-19-TR07-08 to Musk(W)-19-TR07-12.
2019-07-17	Completed channel Sampling at West Showing in Trench 7: Musk(W)-19-TR07-13 to Musk(W)-19-TR07-14. De-moab equipment. Travel from property.
2019-08-16	Travel to property and setup trailer for sleep accommodation.
2019-08-17	Examined trenches at west showing. Travel from property.
2019-08-23	Travel to property and setup camp and moab of equipment.
2019-08-24	Dewatered Trench #6 at West Showing and examined trench. Trench approx. 3m x 4m in size and 2m in depth.
2019-08-25	Demoab of equipment. Travel from property.
2019-09-12	Travel to property and setup trailer for sleep accommodation. Moabed equipment into site.
2019-09-13	De-water Trench #7. Completed channel sampling at West Showing in Trench #7: Musk(W)-19-TR07-15 to Musk(W)-19-TR07-16.
2019-09-14	Channel cut samples. De-moab equipment. Travel from property.
Activity: Site Ev	n Heath (Prospector Licence: 1013380), Freeeman Smith valuation specting equipment, ATV
2019-10-05	Travel to property. Site evaluation at West Showing. Travel from property
Activity: Site Ev	
	specting equipment, ATV
2020-07-11	Travel to property. Site evaluation at West Showing. Travel from property. Collected samples: MUSK(W)-20-01 to MUSK(W)-20-05. Sample MUSK(W)20-01 to 03: 475534E, 5324778N. MUSK(W)-20-04 to 05: 475552E, 5324781N. Samples not sent for assay.



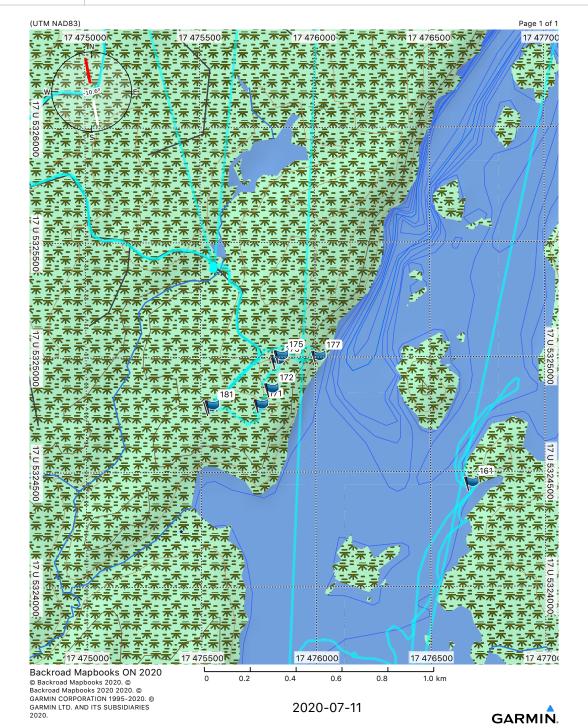
Personel: Darren Heath (Prospector Licence: 1013380), Jon Pessah

**Activity:** Prospecting

**Equipment:** Prospecting equipment, ATV

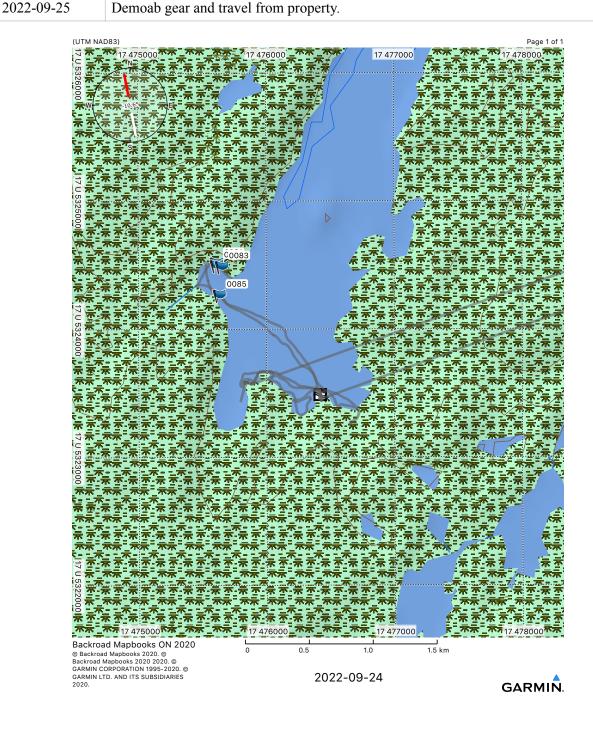
2021-10-32

Travel to property. Prospect traverse as can be seen in map on next page. Travel from property. Samples collected: MUSK(W)-21-01 to MUSK(W)-21-04. Samples O1 to 03 consisted of small quartz veins mineralized with pyrite. MUSK(W)-21-01: 475762E, 5324788N. MUSK(W)-21-02: 475809E, 5324857N. MUSK(W)-21-03: 475809E, 5324857N. MUSK(W)-21-03: 475835E, 5324981N. Sample 04 was collected from a large 20m wide bull quartz vein located on the shores of Muskasenda Lake in area of high relief. MUSK(W)-21-04: 476014E, 5324998N. Samples not sent for assay.





Personel: Darren Heath (Prospector Licence: 1013380), Natasha Gaudet Activity: Prospecting Equipment: Prospecting equipment, Canoe, Camping gear, chainsaw							
2022-09-24	Travel to property. Setup camp. Prospect in canoe in Telluride Bay. Traverse can be seen in map below. Collected Samples MUSK-22-01 to MUSK-22-04. Samples appear to be fesic metavolcanic. MUSK-22-01: 475611E, 5324510N. MUSK-22-02: 45610E, 5324491N. MUSK-22-03: 475649E, 5324484N. MUSK-22-04: 475631E, 5324260N. Samples not sent for assay.						



























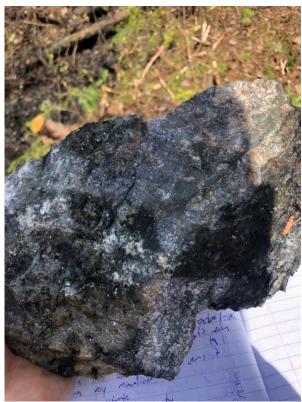




























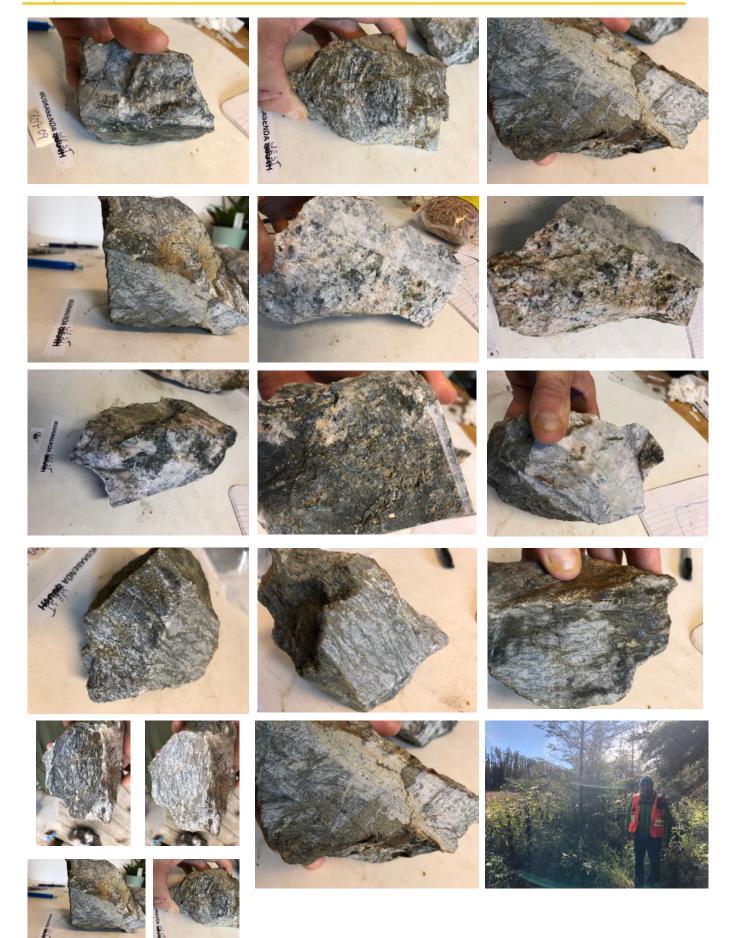




























































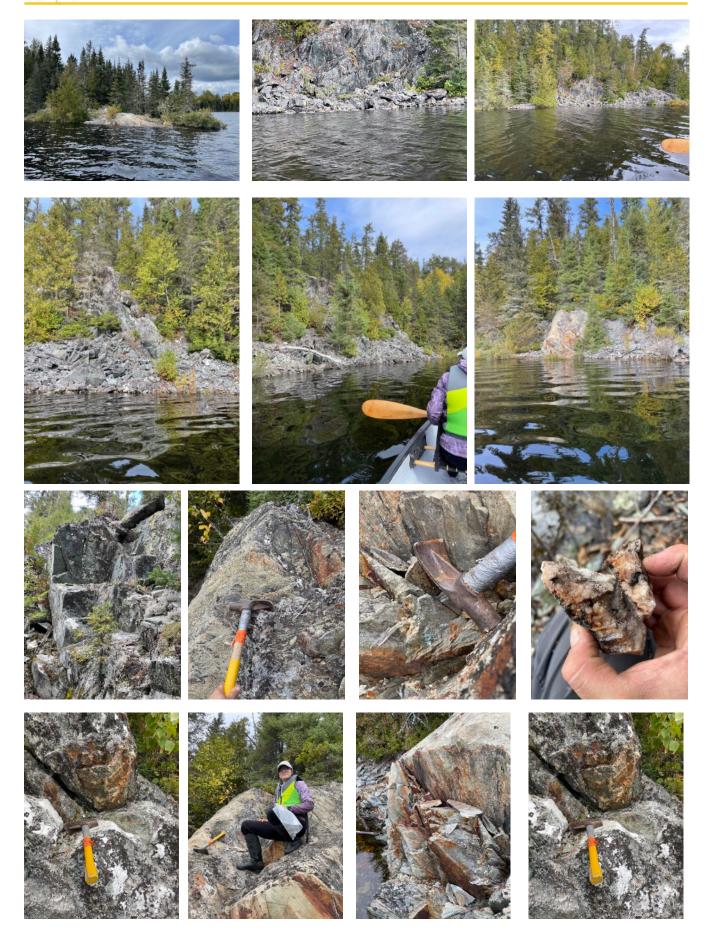














# MUSKASENDA PROJECT EXPENDITURES

### Work Program Expenditures

	Work Schedule							
Date	Activity / Description	Crew	Travel Credit (km)	Work Credit (per day)	Equipmen Credit (pe day)			
2019-06-04	Travel to and from property. Prospecting	Darren Heath, Serge Falaurdeau	160	900	100			
2019-06-14	Travel to Property / cut trail / Setup camp trailer	Darren Heath, Serge Falaurdeau	80	900	200			
2019-06-15	Cut trail	Darren Heath, Serge Falaurdeau	0	900	200			
2019-06-16	Removal of vegetation at west showing / Travel from property	Darren Heath, Serge Falaurdeau	80	900	200			
2019-07-12	Travel to property / Moab equip into showing / Set up camp trailer	Darren Heath, Serge Falaurdeau	0	900	300			
2019-08-13	Removal of vegetation at west showing De-watered trench #7 / Sampling	Darren Heath, Serge Falaurdeau	0	900	300			
2019-08-14	Removal of vegetation at west showing / Travel from property	Darren Heath, Serge Falaurdeau	80	900	300			
2019-08-16	Traveled to property / Moab equipment / setup camp	Darren Heath, Serge Falaurdeau	80	900	300			
2019-08-17	Channel sampling at West Showing / Travel from property	Darren Heath, Serge Falaurdeau	80	900	350			
2019-08-23	Travel to property / Moab of equipment	Darren Heath, Serge Falaurdeau	80	900	350			
2019-08-24	Re-Dewatered trench #7 / Sampling	Darren Heath, Serge Falaurdeau	0	900	350			
2019-08-25	De-moab of equip. / Travel from property	Darren Heath, Serge Falaurdeau	80	900	350			
2019-09-12	Travel to property / Moab of equipment / set up camp trailer	Darren Heath, Serge Falaurdeau	80	900	350			
2019-09-13	Dewatering trench # 6 and 7 / Channel Sampling	Darren Heath, Serge Falaurdeau	0	900	350			
2019-09-14	Channel sample / De-moab of equipment / Travel from property	Darren Heath, Serge Falaurdeau	80	900	350			
2019-10-05	Site examination / Travel to and from property	Darren Heath, Freeman Smith	160	900	100			
			1040	14400	3650			
		Non current work - over 2 years - 50%	520	7200	182			



# MUSKASENDA PROJECT EXPENDITURES

	Work Schedule	•	Expenses						
Date	Activity / Description	Crew	Travel Credit (km)	Work Credit (per day)	Equipment Credit (per day)				
2020-07-11	Site examination / Travel to and from property	Darren Heath, Joel S	160	900	100				
2021-10-31	Prospecting (grassroots)	Darren Heath, John Pessah	320	1800	100				
2022-09-24	Prospecting (grassroots)	Darren Heath, Natasha Gaudet	160	1800	200				
2022-09-25	Prospecting (grassroots)	Darren Heath, Natasha Gaudet	160	1800	200				
2022-12-18	Report		0	500					
2022-12-19	Report		0	500					
			800						
		Sub total (current work)	400	7300	4300				
		Sub total (non current - over 2 years -50%)	520	7200	1850				
		Sub total (all work)	920	14500	6150				
		Total			21570				

### Work Program Evaluation - Cost Per 1 Day

Item Cost per day	Crew of 2
1 Leader - 500 (12 hrs)	500
1 Helper - 400 (12 hrs)	400
Trailer / Camping Gear	50
ATV - 50	50
Chainsaw / Brush cutter- 50 (each)	100
Pressure Pump	50
Rock saw	50
Prospecting Equipment	50
Canoe	50

### **Assay Expenditures**

### **Work Program**

Item	Cost
Work Credit	21770
Assay Expenditures	618
Total	22388





### MUSKASENDA PROJECT REFERENCES

#### Reference

**Government Reports** 

Bright, E.G., 1984 Ontario Geological Survey Report 231 District of Sudbury

OGS Map 2290, Accompanies above report 231 English and Zavity Twonships, Scale 1:31,680

OGS Map 2289, Accompanies above report 231 Beemer and More Townships, Scale 1:31,680

#### **Assessment Work Files**

Evans, S.W. January 1968

Preliminary Geology on Part of the Boychuck Property

Beemer and English townships, Montreal River Mining Division, District of Sudbury

Davies, Sandra, August 1982 Report on a Geological Survey

English township

Amax Minerals Exploration

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SE0217/42A03SE0217.pdf

Watts, A, January 1983

Report on Combined Helicopter-Borne

Magnetic and Electromagnetic Survey, Muskasenda Lake, Ontario

**Amax Minerals Exploration** 

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SE0214/42A03SE0214.pdf

Ludwig, Ed, September 1984 Report on Exploration Activites, Englis township Gold Property, Marjel Resoureces

Ludwig, Ed, March 1988

HSK Minerals Ltd.

Geophysical Report on the Muskasenda Lake Property,

English and Beemer townships

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SE0210/42A03SE0210.pdf

Konings, Marcel, August 1988

Exploration Report 1998 - Muskasenda Project

Beemer and English townships

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SE0208/42A03SE0208.pdf

Daigle, R.J., April 1997

Report of Work: 1995 Line Cutting/TFM/ IP Surveys.

Driver Resources Ltd.

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SW0002/42A03SW0002.pdf

Rodney Boucher, May 1998

Report of Work on the Spanride Property

English and Beemer townships

Starfire Minerals Inc.

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/42A03SW2001/42A03SW2001.pdf

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/20000003384/20005137.pdf



# MUSKASENDA PROJECT ASSAY CERTIFICATES

Report: A19-12973

Report: A19-10821

Results

Activation Laboratories Ltd.

Analyte Symbol	Au	Au
Unit Symbol	g/mt	g/tonne
Lower Limit	0.005	0.03
Method Code	FA-AA	FA- GRA
Musk (W)-19-TR07-08	> 10.0	19.6
Musk (W)-19-TR07-09	8.30	
Musk (W)-19-TR07-10	7.17	
Musk (W)-19-TR07-11	> 10.0	15.6
Musk (W)-19-TR07-12	4.74	
Musk (W)-19-TR07-13	1.14	
Musk (W)-19-TR07-14	> 10.0	24.6
Musk (W)-19-TR07-15	> 10.0	18.0
Musk (W)-19-TR07-16	0.350	

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	В	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%							
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICF																					
Musk(W)-19-01	< 0.2	< 0.5	42	2210	6	8	2	29	0.71	11	< 10	< 10	< 0.5	< 2	7.58	20	8	8.54	< 10	< 1	0.02	< 10	2.68
Musk(W)-19-02	< 0.2	< 0.5	29	1630	11	7	6	31	0.83	10	< 10	< 10	< 0.5	< 2	6.06	19	4	8.11	< 10	< 1	0.02	< 10	2.26
Musk(W)-19-03	0.3	< 0.5	24	795	1	8	5	59	2.18	7	< 10	< 10	< 0.5	< 2	2.81	25	10	8.25	10	1	0.01	< 10	1.76
Musk(W)-19- TR07-01	0.5	< 0.5	38	1010	2	7	5	16	0.70	4	< 10	< 10	< 0.5	< 2	5.07	17	17	4.53	< 10	< 1	0.01	< 10	0.76
Musk(W)-19- TR07-02	0.5	< 0.5	61	1070	< 1	10	6	39	1.67	10	< 10	13	< 0.5	2	5.29	36	16	7.89	< 10	< 1	0.04	< 10	1.31
Musk(W)-19- TR07-03	0.6	0.6	44	1110	1	9	3	27	1.13	7	< 10	< 10	< 0.5	< 2	5.52	25	17	5.78	< 10	< 1	0.01	< 10	1.06
Musk(W)-19- TR07-04	0.5	0.5	36	814	2	-11	< 2	92	3.31	7	< 10	< 10	< 0.5	< 2	2.18	44	2	10.9	20	1	< 0.01	< 10	2.76
Musk(W)-19- TR07-05	< 0.2	< 0.5	51	1110	< 1	10	< 2	13	0.49	8	< 10	< 10	< 0.5	< 2	4.48	12	9	3.75	< 10	< 1	0.02	< 10	0.90
Musk(W)-19- TR07-06	< 0.2	< 0.5	64	1260	< 1	46	< 2	56	2.82	<2	< 10	< 10	< 0.5	< 2	6.50	29	42	7.82	10	< 1	< 0.01	< 10	1.88
Musk(W)-19- TR07-07	0.2	< 0.5	19	692	2	10	4	21	0.86	15	< 10	< 10	< 0.5	< 2	2.93	31	20	5.22	< 10	< 1	0.01	< 10	0.80
Melba-19-01	< 0.2	< 0.5	68	861	< 1	60	< 2	17	1.05	30	< 10	32	< 0.5	2	3.35	17	35	3.97	< 10	< 1	0.20	< 10	1.44

#### Results

#### Activation Laboratories Ltd.

Analyte Symbol	Na	Р	S	Sb	Sc	Sr	Ti	Th	Те	TI	U	٧	W	Υ	Zr	Au	Au
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	g/mt	g/tonne							
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.005	0.03
Method Code	AR-ICP	FA-AA	FA- GRA														
Musk(W)-19-01	0.058	0.074	2.42	< 2	19	245	0.07	< 20	< 1	< 2	< 10	59	< 10	6	5	0.222	
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Musk(W)-19- TR07-05	0.109	0.051	1.64	< 2	10	128	0.05	< 20	< 1	< 2	< 10	26	< 10	4	2	3.02	
Musk(W)-19- TR07-06	0.025	0.032	0.57	3	27	144	0.09	< 20	< 1	< 2	< 10	214	< 10	8	3	0.079	
Musk(W)-19- TR07-07	0.063	0.037	2.77	< 2	12	76	0.08	< 20	< 1	< 2	< 10	60	< 10	3	4	5.37	
Melba-19-01	0.041	0.007	0.46	< 2	14	305	< 0.01	< 20	2	< 2	< 10	43	< 10	5	6	0.166	