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Results of prospecting south Dalton lake 2018 prospecting

AU & base metals

South D'Alton Lake Project
Whiddon Township, Thunder Bay Mining Division
NTS# 52I/7

2018-06-30

Greg Smith

1122 ridgeway street E. Thunder Bay ON.

Contents

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Introduction

This report is the results of the prospecting and sampling programme completed in June 2018.

The author was in the field and on each site location for the full duration of work.

Location and Access

The South D'Alton Lake Project is in Whiddon Township in the Thunder Bay Mining Division. The coordinates of the approximate centre of the claim group are 363827 East and 5590648 North (NAD 83, UTM Zone 16).

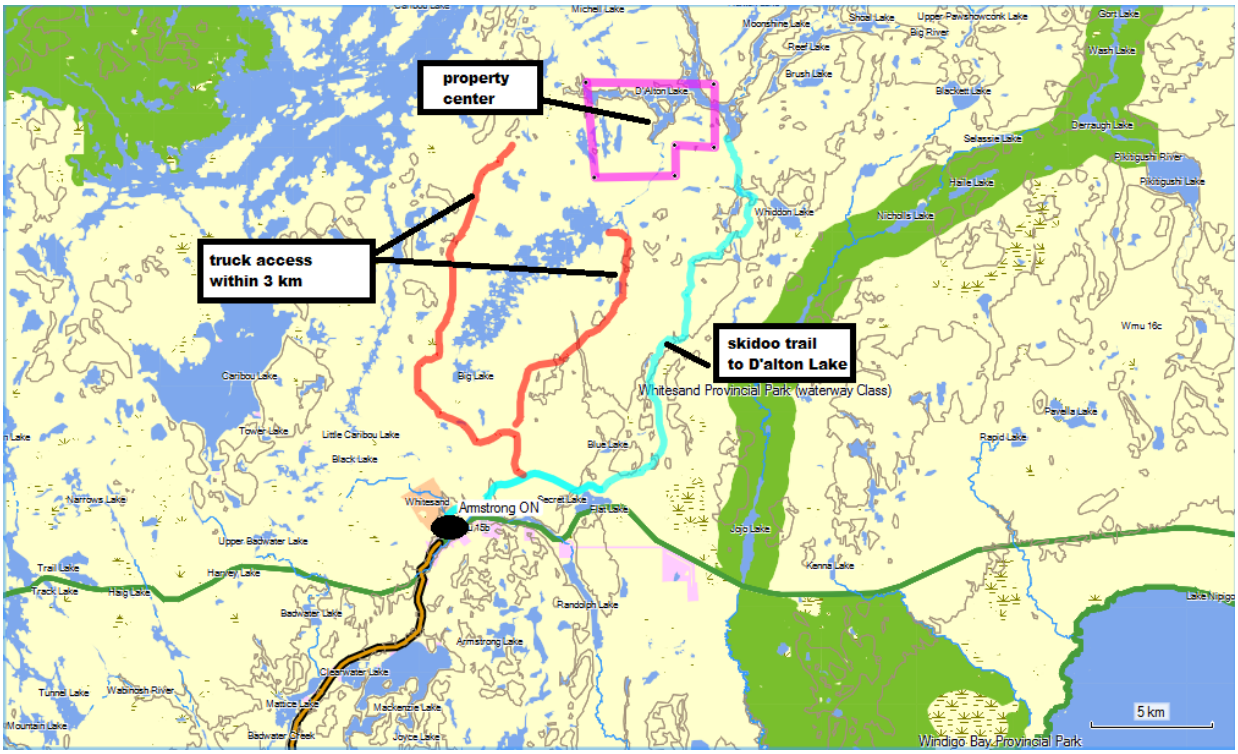

Figure 1: Location South D'Alton Lake

The South D'Alton Lake Project can be accessed by float plane approximately 18 kilometers North East from Armstrong ON. Wilderness North has a lodge within the boundaries of the claims of the South D'Alton Lake project.

There are 2 forestry roads one to the east and one to the south of the property that come within walking distance to the claim boundaries. Approx. 3 Km.

Winter access onto Dalton lake can be achieved by skidoo. There is a well traversed trail that is maintained by Armstrong locals. However, the use of several small lakes has made this a not viable trail for the 4X4 quad access.

Claims

The Property consists of 65 contiguous, un-patented mining claims (Table 1) that are 100% owned by the applicant. The programme focused on 12 claims.

Table 1: South D'Alton Project claim details.

Claim#	Anniversary Date	Area /# of Cells	Claim#	Anniversary Date	Area /# of Cells
114231	2019-03-05	1	245724	2019-03-05	1
126011	2019-03-05	1	249223	2019-03-05	1
131239	2019-03-05	1	249239	2019-03-05	1
137998	2019-03-05	1	249240	2019-03-05	1
137999	2019-03-05	1	253237	2019-03-05	1
138000	2019-03-05	1	253238	2019-03-05	1
138001	2019-03-05	1	253239	2019-03-05	1
138002	2019-03-05	1	261985	2019-03-05	1
148495	2019-03-05	1	265292	2019-03-05	1
148496	2019-03-05	1	265293	2019-03-05	1
151997	2019-03-05	1	272022	2019-03-05	1
153904	2019-03-05	1	272023	2019-03-05	1
166695	2019-03-05	1	285841	2019-03-05	1
166696	2019-03-05	1	285842	2019-03-05	1
170558	2019-03-05	1	300506	2019-03-05	1
175753	2019-03-05	1	306038	2019-03-05	1
175754	2019-03-05	1	306039	2019-03-05	1
175755	2019-03-05	1	316593	2019-03-05	1
185087	2019-03-05	1	317841	2019-03-05	1
185088	2019-03-05	1	319723	2019-03-05	1
187178	2019-03-05	1	319724	2019-03-05	1
190023	2019-03-05	1	319725	2019-03-05	1
190024	2019-03-05	1	322551	2019-03-05	1
204591	2019-03-05	1	322552	2019-03-05	1
206004	2019-03-05	1	329388	2019-03-05	1
219344	2019-03-05	1	329389	2019-03-05	1
227315	2019-03-05	1	330554	2019-03-05	1
227316	2019-03-05	1	333115	2019-03-05	1
227317	2019-03-05	1	337904	2019-03-05	1
232709	2019-03-05	1	337905	2019-03-05	1
239430	2019-03-05	1	337906	2019-03-05	1
337908	2019-03-05	1	337907	2019-03-05	1
345479	2019-03-05	1			

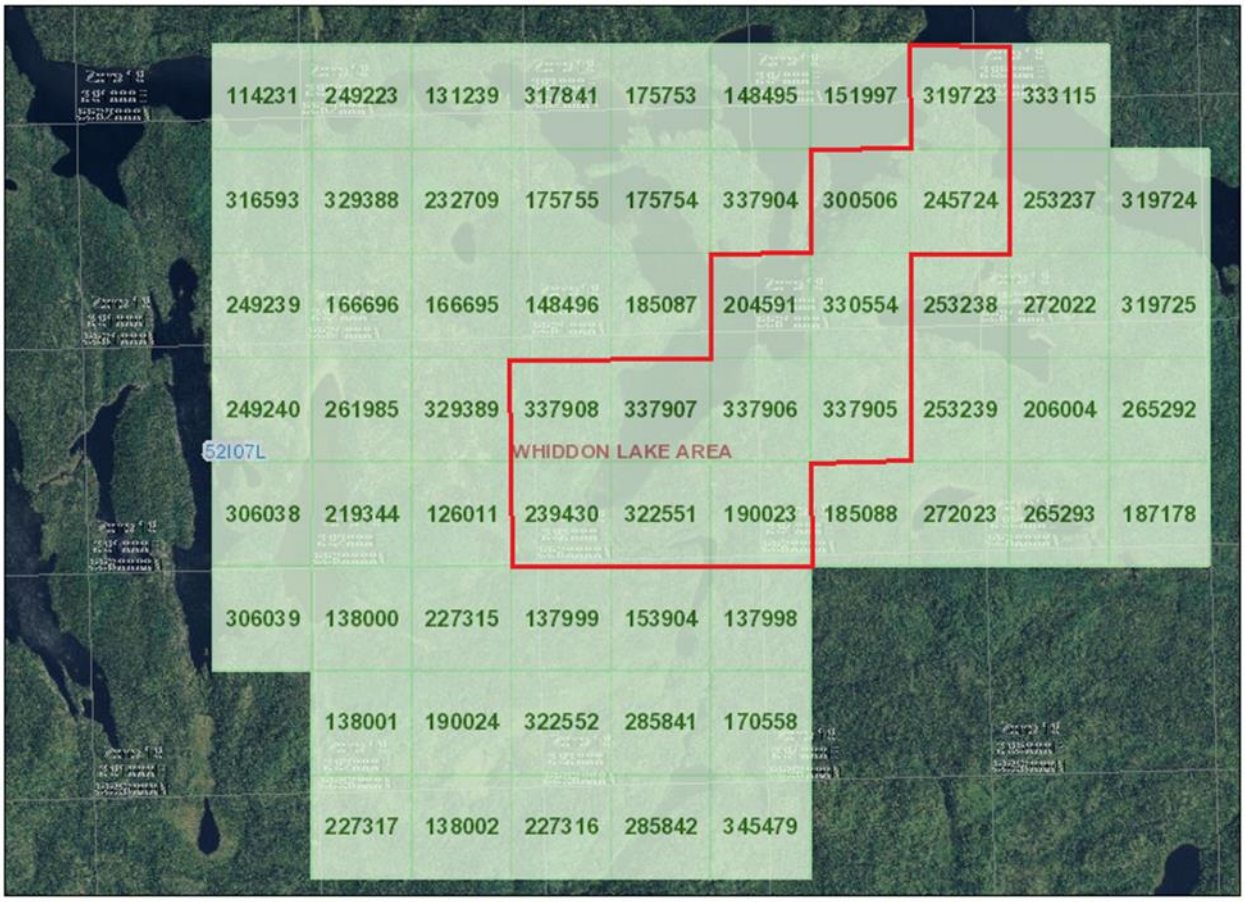

Figure 2 claim map

Geology

REGIONAL GEOLOGY

The area is underlain by intrusive and extrusive rocks of Precambrian age, located near the northern margin of the Wabigoon greenstone belt, lying within the Superior Province of the Canadian Shield. The metasedimentary English River sub province is found 10 miles to the north.

Archean Mafic metavolcanics underlie most of the claim block and surrounding terrain. Biotite - tonalite forms an early intermediate batholithic complex which is intruded by later granitoid plutons, such as the D'Alton Lake biotite-granite. Proterozoic diabase dykes and cone sheets intrude all previous lithologies and are associated with the development of the much younger Mid-Continent Rift system.

PROPERTY GEOLOGY

The eastern 2/3 of the property is underlain by mafic volcanic flows, trending ENE with vertical dips. This sequence has been intruded by gneissic biotite-tonalite, interfingering from a large batholithic body to the west. Both assemblages are cut by the 3-mile diameter biotite granite D'Alton Lake Pluton which underlies the NW corner of the claim block. The claims are traversed by an EW late Precambrian (Proterozoic) dyke. This lopsided, funnel shaped structure, 1500"wide, is related to the opening of the mid-continent rift through Lake Superior and associated mafic intrusive and extrusive activity. A southwesterly trending flexure is evident in the trace of the diabase dyke, underlying the southern arm of D'Alton Lake. This coincides with an interpreted synclinal axis in the mafic volcanic sequence. This trend parallels the SE contact of the D'Alton Lake Pluton. No shear zone was noted here during Ontario Geological Survey (OGS) mapping in 1980; however, the northern contact of the pluton is shown with an obvious l mile long sinistral displacement (OGS Map 2485). The NE extension of this shear passes close to the New Jersey Zinc sulfide occurrences at the north end of D'Alton Lake.

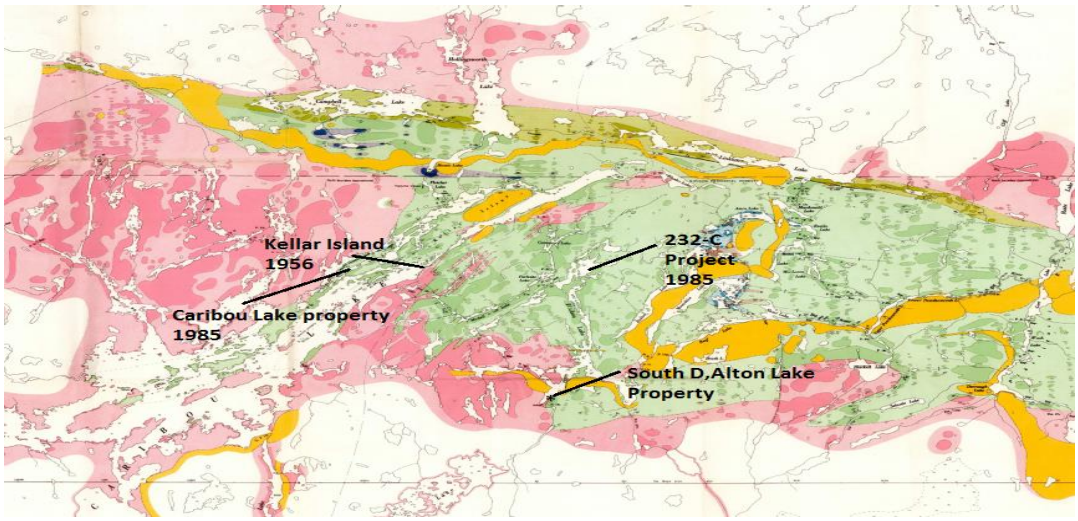

Figure 3 Geology of area

Figure 4 Geology of property

Previous Work

The project area has had limited exploration to date.

A limited prospecting was completed in 1997 by Eino Ranta *(assessment file # 2.17940)*

Two gossan sites are noted and sampled. The larger area to the south is confirmed to be 150 feet wide. Two pits approx. 4 feet deep were dug and hosted a sample 5.8 OPT/Au. This area has been tested twice.

The second area 80 feet by 40 feet was blasted and quartz stringers running parallel to pyrite veins were sampled. This area too, hosted several multi ounce Au samples.

Previous work property highlights included:

1# 5.800 opt/Au, 0.75%/cu 4# 1.484 opt/Au
2# 1.962 opt/Au 5# 0.768 opt/Au
3# 1.548 opt/Au 6# 0.521 opt/Au

The D'Alton Lake mineralization may be similar to the shear zone hosted gold/chalcopyrite mineralized quartz veins at Kellar Island on Caribou Lake located 10 km to the northwest.

Recent work/ Fieldnotes and Pictures.

47 samples were collected for assay. Areas of interest were Georeferenced and photographed. The mineralized zones on the south side Shores of Dalton lake appear to be a hydrothermal alteration related to a shear zone trending 70 degrees that is found about 150 meters South offshore. The width and length of the shear is not yet determined however, this trip we had tracked it for at least. 25 m wide and had found it to run straight across the entire area visited. 1700m. long.

Quartz and quartz stringer veins are found running parallel to the shear and cut the mafic and ultra mafic host rock The Quartz is often a course grained white colour or a smoky fine grain. Quartz stringers are found in many areas.

Disseminated grains, irregular shaped patches cm large and veins of Pyrite chalcopyrite are common in the white/grey quartz. There is course grained clear grey quartz found at the waterfalls and hosts large 1 inch plus veins of chalcopyrite and Pyrite. These rocks were not tested but a sample was collected. The rushing waterfalls had broken the bedrock and the exact location could not be determined.

There are two known surficial mineralized areas located on the property with moderate exposure visible. The area is cut by carbonate material 10 degrees on the west side of the falls but is running parallel with the shears east of the falls, south end of Dalton lake. There have been 10 areas of carbonated alteration located within the boundaries of the two zones. They appear to be found approx. 10 to 20 meters away from bedrock containing larger concentrates of Pyrite and chalcopyrite. The carbonated rock weathers a rust red. It is a medium grain and commonly a dull grey. Dull purple, green and red were also observed and sampled. it has disseminated granular Pyrite and often quartz stringers. Sizes vary from several inches up to 8 feet wide.

The Carbonate material has small black flakes that are magnetic. Magnetite? A lot of the material is easily broken and crumbled when struck.

The south west zone is 30 meters wide and runs for 190 meters. it is mixed forest the ground is moss covered or sand and gravel of various depths. A few inches to several feet. The zone is interrupted to the east as it enters low lands/ swamp. The extent to the west is unknown but appears to transition from mafic volcanic to granitic bedrock approx. 30 m west of the falls.

The North East zone is about 10 meters by 25m and its extent is yet to be determined. Gossanous material is found 40 meters to the north, north west but is mostly smaller rounded boulders. The overburden is sand and gravel of unknow depths.

The middle of the property is moss covered bedrock approx. 5 inches thick. Ultramafic rocks are present with small patches of spinifex texture with minor amounts of Pyrite. Quartz veins run parallel with the shear and are several inches to close to a foot wide. A mica schist is present adjacent to some quartz veins. Tourmaline is present throughout the quartz as veins within the fractures. A sheared gabbro was located and is 4 feet wide and is exposed for about 20 feet. Closer to the lake there are several large angular gossanous boulders. They have 10% sulfide mineralization and are like the bedrock in the two zones.

Figure 5 quartz stringers in carbonate

Figure 6 typical quartz in the mineralized areas.

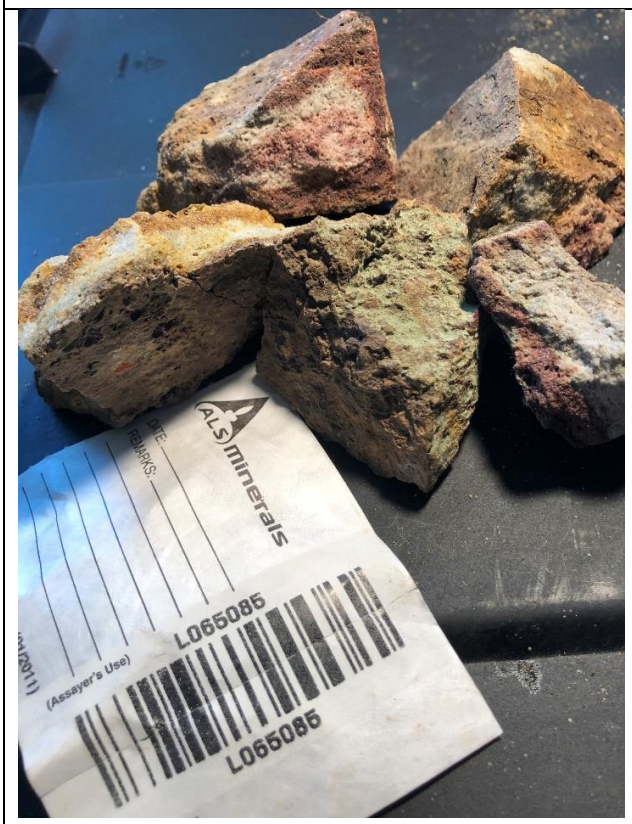

Figure 7 carbonate sample

Figure 8 ultramafic sample L065071

Figure 9 weathered surface in mineralizes zones

Figure 10 sheared bedrock

Sample description

SAMPLE NAME	LOCATION UTM	DESCRIPTION	MINERALIZATION
LO65051	16 U 363828 5590633	ultra mafic	Py, CoPy
LO65052	16 U 363860 5590535	sheared gabbro	no visible mineralization
LO65053	16 U 363852 5590534	qtz tourmaline	minor amounts of Py
LO65054	16 U 363877 5590513	qtz in sheared gabbro	no visible mineralization
LO65055	16 U 364327 5591061	mafic qtz	no visible mineralization
LO65056	16 U 364347 5591007	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65057	16 U 364347 5591007	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65058	16 U 364347 5591007	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65059	16 U 364348 5591012	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65060	16 U 364349 5591016	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65061	16 U 364349 5591016	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65062	16 U 364349 5591016	qtz, qtz stringers, carbonate	Py, CoPy disseminated
LO65063	16 U 363411 5590241	white and grey qtz, carbonate	Py
LO65064	16 U 363411 5590241	white and grey qtz, carbonate	Py
LO65065	16 U 363411 5590241	white and grey qtz, carbonate	Py
LO65066	16 U 363411 5590241	white and grey qtz, carbonate	Py
LO65067	16 U 363421 5590236	white and grey qtz	grey qtz has Py, CoPy
LO65068	16 U 363412 5590244	white and grey qtz	grey qtz has Py
LO65069	16 U 363416 5590239	white and grey qtz	grey qtz has Py
LO65070	16 U 363383 5590240	qtz boulder	no visible mineralization
LO65071	16 U 363377 5590234	qtz, qtz carbonate	Py bornite
LO65072	16 U 363375	mafic qtz	Py

	5590232		
LO65073	16 U 363365 5590227	80% PY Vein some qtz	Py
LO65074	16 U 363350 5590224	qtz	biotite
LO65075	16 U 363347 5590221	dull green carbonate	PY disseminated
LO65076	16 U 363341 5590208	qtz vein	CoPY, PY
LO65077	16 U 363338 5590226	mafic	Py, CoPY, magnetic
LO65078	16 U 363330 5590235	qtz carbonate	tourmaline, CoPy,Py
LO65079	16 U 363313 5590223	mafic qtz	veins Py CoPy
LO65080	16 U 363308 5590218	qtz carbonate	globby py, veins, disseminated
LO65081	16 U 363308 5590218	qtz carbonate	py
LO65082	16 U 363300 5590209	carbonate red, green hue, vuggy	py, magnetic black flakes
LO65083	16 U 363300 5590209	carbonate red, green hue, vuggy	py, magnetic black flakes
LO65084	16 U 363300 5590209	grey, clear qtz	py CoPy
LO65085	16 U 363300 5590209	vuggy carbonate vein	magnetite
LO65086	16 U 363300 5590209	carbonate red, green hue, vuggy	py, magnetic black flakes
LO65087	16 U 363293 5590213	clear course grained qtz, heavy	py, tourmaline vein
LO65088	16 U 363293 5590213	vuggy course grained grey qtz	no visible mineralization
LO65089	16 U 363299 5590209	grey white carbonate, sugary Qtz, vuggy	Granular Dull Grey Py
LO65090	16 U 363325 5590195	mafic, qtz	Py/CoPy disseminated/ veins
LO65091	16 U 363324 5590193	brown vuggy rust heavy	no visible mineralization
LO65092	16 U 363321 5590198	mafic/ veins of sulfide sheared	Py/CoPy disseminated/ veins
LO65093	16 U 363317 5590206	qtz / qtz carbonate	Py/CoPy disseminated minor amounts
LO65094	16 U 363321 5590195	QTZ CLEAR WHITE COARSE GRAINED QTZ	Green staining Malachite?
LO65095	16 U 363293 5590193	GREY & WHITE COURSE GRAINED QTZ	Py/CoPy disseminated

LO65096	16 U 363298 5590192	GREY QTZ MED GRAIN MAFIC PY VEIN 1/4 INCH	Py/CoPy disseminated

Sample location maps

Figure 11 Sample location overview area worked

Figure 12 Sample location South west

Figure 13 Sample location Middle

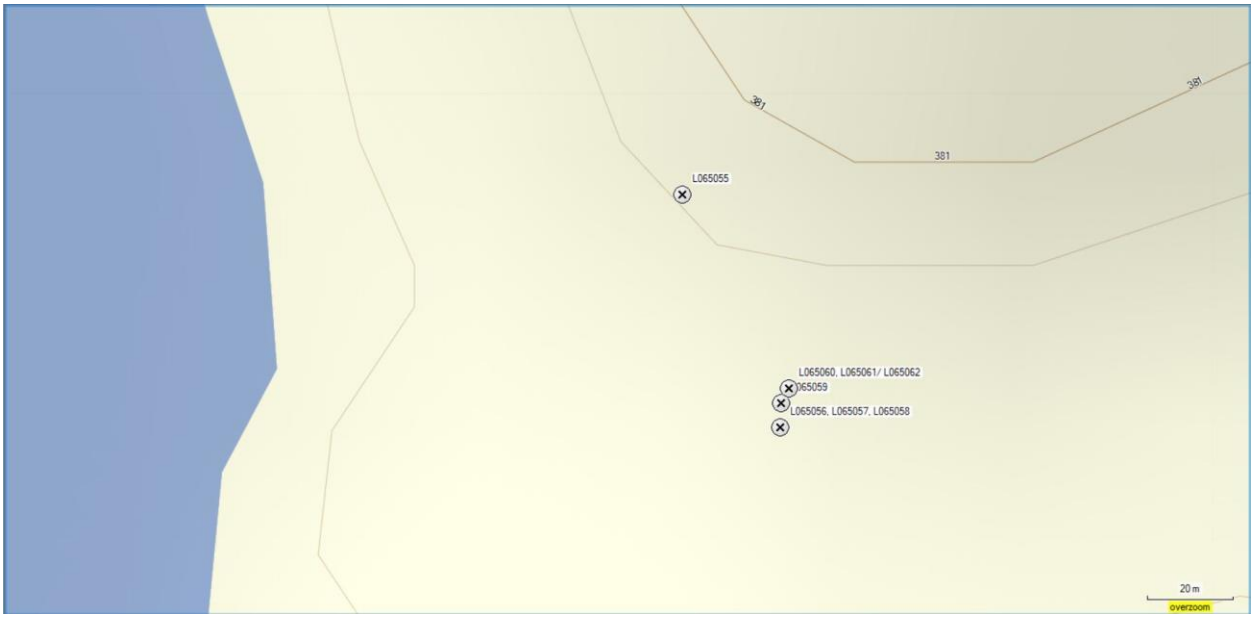

Figure 14 Sample location North east

Daily log

DATE	EVENT	NOTES
JUNE 7 2018	GATHERED SUPPLIES PACKED	
JUNE 8 2018	DROVE TO TEMPORARY SITE 1	
JUNE 9 2018	2 GUYS WALKED INTO SOUTH END AND STARTED TO EXPLORE 1 GUY MOVED CAMP SUPPLIES UP THE OLD TRAIL	SEVERAL IRON FORMATIONS IN THE AREA LOTS OF MINERALIZATION
JUNE 10 2018	2 GUYS WALKED INTO SOUTH END AND STARTED TO EXPLORE 1 GUY MOVED CAMP SUPPLIES UP THE OLD TRAIL	STARTED TO COLLECT SAMPLES IN THE SOUTH END. CARBONATE AREAS WERE LOCATED, WE FOUND OUR ACCESS ROUTE FOR CROSSING THE RIVER. CAMP WAS SET UP CLOSE TO WORK SITE ABOUT 1 MILE AWAY TO THE WEST.
JUNE 11 2018	3 GUYS PROSPECTED AND EXPLORED THE AREA OUTSIDE THE KNOWN MINERALIZED AREA	NOTHING WAS LOCATED. THERE WAS A LOT OF HARD WALKING. OUTCROPS ARE SCARCE. NOTHING OF INTEREST LOCATED.
JUNE 12 2018	3 GUYS PROSPECTED AND COLLECTED SAMPLES SOUTH WEST END	MOSTLY BROKE ROCKS AND UNCOVERED AREAS OF MINERALIZATION
JUNE 13 2018	3 GUYS PROSPECTED AND COLLECTED SAMPLES SOUTH WEST MIDDLE AREA	A NEW IRON FORMATION WAS FOUND. CARBONATE ROCKS ARE RUNNING PARALLEL WITH THE ZONE OF MINERALIZATION.
JUNE 14 2018	DEMOBILIZED TO THUNDER BAY	THE ROUTES WERE UN REALISTIC TO ACCESS THE DEEPER AREA. WE DECIDED TO RETURN WITH A BOAT AND FLY IN.
JUNE 15 2018	OFF WORK	SOME SUPPLIES WERE BOUGHT
JUNE 16 2018	OFF WORK	SOME SUPPLIES WERE BOUGHT
JUNE 17 2018	MOBILIZED ARMSTRONG	UNABLE TO FLY IN 1 GUY WENT BACK TO ORIGINAL CAMP
JUNE 18 2018	FLEW IN	GOT THE BOAT READY EXPLORED THE CENTER OF THE PROPERTY

JUNE 19 2018	3 GUYS PROSPECTED CENTER	COLLECTED SAMPLES. OUTCROPS ARE SCARCE. MANY QTZ VEINS. MOSTLY ULTRA MAFIC ROCKS WERE FOUND. LITTLE MINERALIZATION.
JUNE 20 2018	3 GUYS PROSPECTED NORTH EAST AREA	EXPLORED AREA. HARD WALKING. LOTS OF BLOWN DOWN POPLAR. FEW OUTCROPS.
JUNE 21 2018	3 GUYS PROSPECTED AND COLLECTED SAMPLES NORTH EAST AREA	PAST SAMPLED AREA WAS REVISITED. SAMPLES WERE COLLECTED.
JUNE 22 2018	REMAINING IN FIELD SAMPLES WERE COLLECTED DEMOBILIZED	GEAR WAS PACKED SAMPLES WERE BAGGED AND PLANE WAS RIGHT ON TIME.

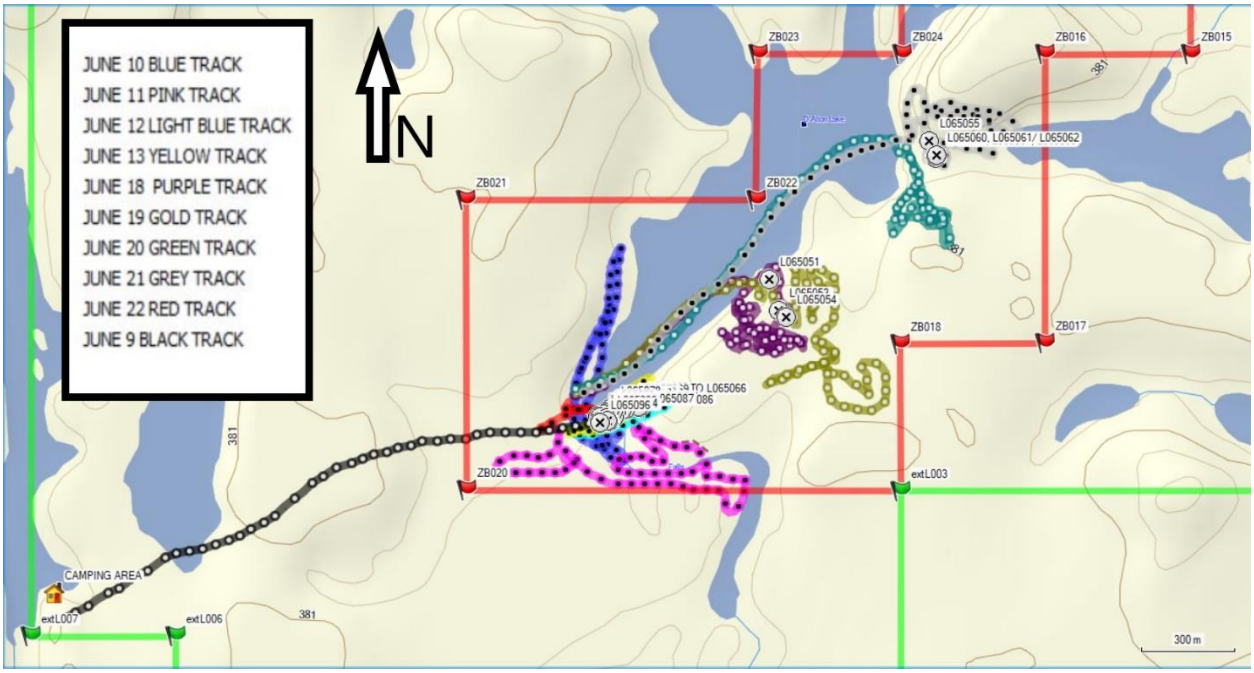

Figure 15 Daily traverse map

Costs of work

PROSPECTING & SAMPLING						TOTAL
GREG SMITH	10	DAYS	$ 275.00	A DAY	$	2,750.00
COTY MANNILA	10	DAYS	$ 275.00	A DAY	$	2,750.00
GHESLAIN GERVAIS	10	DAYS	$ 275.00	A DAY	$	2,750.00

TRAVEL WAGES						
GREG SMITH	4	half/day	$ 100.00	A DAY	$	400.00
COTY MANNILA	4	half/day	$ 100.00	A DAY	$	400.00
GHESLAIN GERVAIS	4	half/day	$ 100.00	A DAY	$	400.00
ASSAYS					$	1,478.80
MATERIALS						
BAGS, FLAG TAPE ETC.					$	159.38
CAMP SUPPLIES						
FUEL OIL ETC.					$	228.80
RENTAL EQUIPMENT						
PROSPECTOR TENT, GENERATOR, CHAINSAW					$	1,900.00
TRAVEL						
TRUCK KM	1100	KM	$ 0.50	PER KM	$	550.00
FLOAT PLANE					$	1,446.40
FOOD	30	DAYS	$ 25.00	PER DAY	$	750.00
GRAND TOTAL					$	15,963.38

Results

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THUNDER BAY ON P7E 5J1

Page: 1
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 10-JUL-2018
This copy reported on
11-JUL-2018
Account: HTGEYA

CERTIFICATE TB18155431

Project: DALTON 2018

This report is for 41 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 29-JUN-2018.

The following have access to data associated with this certificate:

GREG SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Au-AA24	Au 50g FA AA finish	AAS
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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THUNDER BAY ON P7E 5J1

Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
L065058		1.09	0.006	<0.5	0.02	<5	<10	<0.5	<2	0.57	<0.5	29	17	32	7.29	<10
L065059		0.43	0.005	<0.5	0.02	<5	<10	<0.5	<2	0.26	<0.5	15	25	49	7.58	<10
L065061		0.89	<0.005	<0.5	0.06	<5	<10	<0.5	<2	1.42	<0.5	19	15	49	4.51	<10
L065066		0.86	0.005	<0.5	1.82	<5	100	0.6	2	0.74	<0.5	1	16	18	2.45	10
L065069		1.05	0.006	<0.5	0.09	<5	<10	<0.5	<2	1.24	<0.5	10	24	234	5.64	<10
L065071		1.14	0.007	<0.5	3.99	<5	140	1.2	<2	9.91	0.5	50	496	49	7.81	10
L065083		0.78	<0.005	<0.5	0.02	<5	<10	<0.5	2	0.30	<0.5	<1	7	6	2.52	<10
L065056		0.64	0.005													
L065057		1.27	<0.005													
L065060		0.96	<0.005													
L065062		0.97	<0.005													
L065063		0.41	<0.005													
L065064		0.31	<0.005													
L065065		0.47	<0.005													
L065067		0.83	<0.005													
L065068		0.70	0.005													
L065078		0.43	<0.005													
L065080		0.77	<0.005													
L065081		1.45	<0.005													
L065082		0.52	<0.005													
L065084		0.38	<0.005													
L065086		1.40	<0.005													
L065089		0.78	<0.005													
L065072		1.01		<0.5	0.55	<5	<10	<0.5	<2	1.02	<0.5	4	13	148	4.25	<10
L065077		1.50		<0.5	0.43	<5	<10	0.6	3	2.38	0.7	5	14	55	19.95	<10
L065091		0.54		<0.5	0.10	<5	<10	<0.5	<2	0.10	<0.5	<1	7	94	17.95	<10
L065094		0.76		<0.5	0.04	<5	<10	<0.5	2	0.36	<0.5	<1	13	14	3.74	<10
L065053		0.90														
L065054		0.25														
L065055		0.46														
L065074		0.75														
L065076		1.05														
L065087		1.95														
L065088		1.86														
L065092		1.68														
L065093		0.60														
L065095		1.90														
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L065085		0.58		<0.5	0.06	<5	10	<0.5	2	0.64	<0.5	1	6	6	4.47	<10
L065052		0.96														

***** See Appendix Page for comments regarding this certificate *****

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Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
L065058		<0.01	<10	0.12	303	1	0.02	6	250	<2	2.98	<5	<1	1	<20	<0.01
L065059		<0.01	<10	0.19	485	1	0.01	14	180	<2	3.54	<5	<1	1	<20	<0.01
L065061		<0.01	<10	0.08	642	1	0.01	8	80	<2	1.81	<5	<1	1	<20	<0.01
L065066		0.94	<10	0.23	284	1	0.54	3	80	5	0.43	<5	<1	22	<20	0.01
L065069		<0.01	<10	0.32	596	2	0.01	31	130	<2	3.48	<5	<1	2	<20	<0.01
L065071		0.72	10	9.60	1625	<1	0.80	379	280	<2	0.79	<5	38	215	<20	0.34
L065083		0.01	<10	0.31	567	3	0.01	1	80	<2	0.47	<5	<1	2	<20	<0.01
L065056																
L065057																
L065060																
L065062																
L065063																
L065064																
L065065																
L065067																
L065068																
L065078																
L065080																
L065081																
L065082																
L065084																
L065086																
L065089																
L065072		0.04	<10	0.39	781	1	0.11	6	70	<2	1.39	<5	<1	18	<20	0.01
L065077		0.01	<10	2.32	14850	<1	0.04	12	70	<2	8.16	<5	1	4	<20	0.01
L065091		0.03	<10	0.05	411	2	0.02	1	50	40	0.52	<5	<1	3	<20	0.01
L065094		0.01	<10	0.25	578	1	0.01	1	30	<2	0.10	<5	<1	2	<20	<0.01
L065053																
L065054																
L065055																
L065074																
L065076																
L065087																
L065088																
L065092																
L065093																
L065095																
L065051		0.91	<10	2.48	892	1	2.40	95	50	18	0.51	7	18	172	<20	0.26
L065085		0.05	<10	0.58	1115	2	0.02	2	150	3	0.20	<5	<1	2	<20	<0.01
L065052																

***** See Appendix Page for comments regarding this certificate *****

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www.alsglobal.com/geochemistry

To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method Analyte Units LOD	ME- ICP61 Tl ppm 10	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	PGM- ICP23 Au ppm 0.001	PGM- ICP23 Pt ppm 0.005	PGM- ICP23 Pd ppm 0.001	Au- AA23 Au ppm 0.005
L065058		<10	<10	1	<10	5				
L065059		<10	<10	1	<10	10				
L065061		<10	<10	2	<10	9				
L065066		<10	<10	3	<10	9				
L065069		<10	<10	3	<10	11				
L065071		<10	<10	192	<10	72				
L065083		<10	<10	2	<10	17				
L065056										
L065057										
L065060										
L065062										
L065063										
L065064										
L065065										
L065067										
L065068										
L065078										
L065080										
L065081										
L065082										
L065084										
L065086										
L065089										<0.005
L065072		<10	<10	4	<10	20				0.005
L065077		<10	<10	13	<10	323				0.020
L065091		<10	<10	3	<10	23				0.005
L065094		<10	<10	4	<10	26				<0.005
L065053										<0.005
L065054										<0.005
L065055										0.005
L065074										<0.005
L065076										<0.005
L065087										<0.005
L065088										0.010
L065092										<0.005
L065093										<0.005
L065095		10	<10	122	<10	50	<0.001	<0.005	0.006	
L065051		<10	<10	4	<10	42	<0.001	<0.005	0.001	
L065085							<0.001	<0.005	0.001	
L065052										

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Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg 0.02	Au- AA24 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10
L065075		0.60														

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THUNDER BAY ON P7E 5J1

Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method / Analyte / Units / LOD	ME- ICP61 K % 0.01	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01
L065075																

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1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	ME- ICP61	PGM- ICP23	PGM- ICP23	PGM- ICP23	Au- AA23
	Analyte	Tl	U	V	W	Zn	Au	Pt	Pd	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2	0.001	0.005	0.001	0.005
L065075							0.003	<0.005	<0.001	

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 10- JUL- 2018
Account: HTGEYA

Project: DALTON 2018

CERTIFICATE OF ANALYSIS TB18155431

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU- 31	CRU- QC	LOG- 21	PUL- 31
	PUL- QC	SPL- 21	WEI- 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au- AA23	Au- AA24	ME- ICP61	PGM- ICP23

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To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Finalized Date: 10- JUL- 2018
This copy reported on
11- JUL- 2018
Account: HTGEYA

QC CERTIFICATE TB18155431

Project: DALTON 2018

This report is for 41 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 29- JUN- 2018.

The following have access to data associated with this certificate:

GREG SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
PGM- ICP23	Pt, Pd, Au 30g FA ICP	ICP- AES
Au- AA24	Au 50g FA AA finish	AAS
Au- AA23	Au 30g FA- AA finish	AAS
ME- ICP61	33 element four acid ICP- AES	ICP- AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

QC

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To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method Analyte Units LOD	Au- AA24 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01
STANDARDS																
CDN- CM- 34			3.6	6.70	104	500	1.0	3	2.19	1.4	44	261	5940	4.87	20	2.97
Target Range -	Lower Bound		2.5	5.88	90	430	<0.5	<2	1.83	<0.5	37	217	5370	4.26	<10	2.51
	Upper Bound		4.9	7.21	122	610	2.1	8	2.25	2.0	47	267	6190	5.23	40	3.09
G913- 10		7.24														
G913- 10		7.12														
Target Range -	Lower Bound	6.66														
	Upper Bound	7.52														
GPP- 14																
Target Range -	Lower Bound															
	Upper Bound															
JK- 17																
Target Range -	Lower Bound															
	Upper Bound															
LEA- 16		0.512														
LEA- 16		0.495														
Target Range -	Lower Bound	0.466														
	Upper Bound	0.536														
OGGeo08			19.7	6.45	116	670	2.7	9	2.21	18.7	97	86	8240	5.32	20	2.99
Target Range -	Lower Bound		17.7	6.07	102	700	1.8	6	1.98	16.2	86	78	7800	4.81	<10	2.59
	Upper Bound		22.7	7.44	136	980	4.1	15	2.44	21.0	108	98	8980	5.91	40	3.19
OREAS 503c																
Target Range -	Lower Bound															
	Upper Bound															
OREAS 503c		0.694														
Target Range -	Lower Bound	0.651														
	Upper Bound	0.745														
OREAS 503c																
Target Range -	Lower Bound															
	Upper Bound															
PK2																
Target Range -	Lower Bound															
	Upper Bound															

***** See Appendix Page for comments regarding this certificate *****

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THUNDER BAY ON P7E 5J1

Finalized Date: 10- JUL- 2018
Account: HTGEYA

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description / Method / Analyte / Units / LOD	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01	ME- ICP61 Tl ppm 10
STANDARDS															
CDN- CM- 34	20	3.73	466	305	0.76	251	1260	19	3.14	7	16	231	<20	0.51	<10
Target Range - Lower Bound	<10	3.29	399	269	0.66	220	1110	19	2.70	<5	14	204	<20	0.43	<10
Upper Bound	40	4.05	499	331	0.83	271	1370	29	3.32	17	19	251	40	0.55	20
G913- 10															
G913- 10															
Target Range - Lower Bound															
Upper Bound															
GPP- 14															
Target Range - Lower Bound															
Upper Bound															
JK- 17															
Target Range - Lower Bound															
Upper Bound															
LEA- 16															
LEA- 16															
Target Range - Lower Bound															
Upper Bound															
OGGeo08	20	1.20	501	899	1.83	8790	850	7380	2.81	26	9	247	<20	0.40	<10
Target Range - Lower Bound	<10	1.11	447	841	1.62	8000	760	6510	2.51	14	8	223	<20	0.35	<10
Upper Bound	60	1.38	557	1030	2.00	9770	950	7970	3.09	40	13	275	60	0.45	20
OREAS 503c															
Target Range - Lower Bound															
Upper Bound															
OREAS 503c															
Target Range - Lower Bound															
Upper Bound															
OREAS 503c															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															

***** See Appendix Page for comments regarding this certificate *****

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To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Finalized Date: 10- JUL- 2018
Account: HTGEYA

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method / Analyte / Units / LOD	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	PGM- ICP23 Au ppm 0.001	PGM- ICP23 Pt ppm 0.005	PGM- ICP23 Pd ppm 0.001	Au- AA23 Au ppm 0.005
STANDARDS									
CDN- CM- 34		<10	168	30	203				
Target Range - Lower Bound		<10	149	<10	176				
Upper Bound		20	184	50	219				
G913- 10									
G913- 10									
Target Range - Lower Bound									
Upper Bound									
GPP- 14						0.910	0.513	0.479	
Target Range - Lower Bound						0.853	0.468	0.451	
Upper Bound						0.965	0.538	0.511	
JK- 17									2.01
Target Range - Lower Bound									1.875
Upper Bound									2.12
LEA- 16									
LEA- 16									
Target Range - Lower Bound									
Upper Bound									
OGGeo08		<10	86	<10	7020				
Target Range - Lower Bound		<10	77	<10	6500				
Upper Bound		30	97	30	7950				
OREAS 503c									0.698
Target Range - Lower Bound									0.651
Upper Bound									0.745
OREAS 503c									
Target Range - Lower Bound									
Upper Bound									
OREAS 503c						0.692	<0.005	0.008	
Target Range - Lower Bound									
Upper Bound									
PK2						5.14	5.00	6.07	
Target Range - Lower Bound						4.50	4.46	5.56	
Upper Bound						5.07	5.04	6.27	

***** See Appendix Page for comments regarding this certificate *****

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To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method / Analyte / Units / LOD	Au-AA24 Au ppm 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01
BLANKS																
BLANK		<0.005														
BLANK		<0.005														
BLANK		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01
Target Range - Lower Bound			<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01
Upper Bound			1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02
BLANK																
Target Range - Lower Bound																
Upper Bound																
DUPLICATES																
ORIGINAL		1.430														
DUP		1.540														
Target Range - Lower Bound		1.405														
Upper Bound		1.565														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.008														
DUP		0.016														
Target Range - Lower Bound		0.006														
Upper Bound		0.018														

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Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description / Method / Analyte / Units / LOD	ME- ICP61 La ppm 10	ME- ICP61 Mg % 0.01	ME- ICP61 Mn ppm 5	ME- ICP61 Mo ppm 1	ME- ICP61 Na % 0.01	ME- ICP61 Ni ppm 1	ME- ICP61 P ppm 10	ME- ICP61 Pb ppm 2	ME- ICP61 S % 0.01	ME- ICP61 Sb ppm 5	ME- ICP61 Sc ppm 1	ME- ICP61 Sr ppm 1	ME- ICP61 Th ppm 20	ME- ICP61 Ti % 0.01	ME- ICP61 Tl ppm 10
BLANKS															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<10	<0.01	<5	<1	<0.01	<1	10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
Target Range - Lower Bound	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01	<10
Upper Bound	20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02	20
BLANK															
Target Range - Lower Bound															
Upper Bound															
DUPLICATES															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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To: GREG SMITH
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THUNDER BAY ON P7E 5J1

Finalized Date: 10- JUL- 2018
Account: HTGEYA

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method Analyte Units LOD	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	PGM- ICP23 Au ppm 0.001	PGM- ICP23 Pt ppm 0.005	PGM- ICP23 Pd ppm 0.001	Au- AA23 Au ppm 0.005
BLANKS									
BLANK									<0.005
Target Range - Lower Bound									<0.005
Upper Bound									0.010
BLANK									
BLANK									
BLANK									
Target Range - Lower Bound									
Upper Bound									
BLANK		<10	<1	<10	<2				
Target Range - Lower Bound		<10	<1	<10	<2				
Upper Bound		20	2	20	4				
BLANK						<0.001	<0.005	<0.001	
Target Range - Lower Bound						<0.001	<0.005	<0.001	
Upper Bound						0.002	0.010	0.002	
DUPLICATES									
ORIGINAL									
DUP									
Target Range - Lower Bound									
Upper Bound									
ORIGINAL									3.82
DUP									3.72
Target Range - Lower Bound									3.58
Upper Bound									3.96
ORIGINAL									0.102
DUP									0.112
Target Range - Lower Bound									0.097
Upper Bound									0.117
ORIGINAL									
DUP									
Target Range - Lower Bound									
Upper Bound									

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Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description	Method / Analyte / Units / LOD	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10
DUPLICATES																
L065058		<10	0.12	303	1	0.02	6	250	<2	2.98	<5	<1	1	<20	<0.01	<10
DUP		<10	0.12	305	2	0.01	12	260	5	2.99	<5	<1	1	<20	<0.01	<10
Target Range - Lower Bound		<10	0.10	284	<1	<0.01	8	230	<2	2.83	<5	<1	<1	<20	<0.01	<10
Upper Bound		20	0.14	324	2	0.02	10	280	4	3.14	10	2	2	40	0.02	20
L065053																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
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DUP																
Target Range - Lower Bound																
Upper Bound																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: GREG SMITH
1122 RIDGEWAY STREET EAST
THUNDER BAY ON P7E 5J1

Project: DALTON 2018

QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description / Method / Analyte / Units / LOD	Au- AA24 Au ppm 0.005	ME- ICP61 Ag ppm 0.5	ME- ICP61 Al % 0.01	ME- ICP61 As ppm 5	ME- ICP61 Ba ppm 10	ME- ICP61 Be ppm 0.5	ME- ICP61 Bi ppm 2	ME- ICP61 Ca % 0.01	ME- ICP61 Cd ppm 0.5	ME- ICP61 Co ppm 1	ME- ICP61 Cr ppm 1	ME- ICP61 Cu ppm 1	ME- ICP61 Fe % 0.01	ME- ICP61 Ga ppm 10	ME- ICP61 K % 0.01
DUPLICATES															
L065058		<0.5	0.02	<5	<10	<0.5	<2	0.57	<0.5	29	17	32	7.29	<10	<0.01
DUP		<0.5	0.03	6	<10	<0.5	2	0.60	<0.5	28	18	38	7.26	<10	0.01
Target Range - Lower Bound		<0.5	<0.01	<5	<10	<0.5	<2	0.55	<0.5	26	16	33	6.90	<10	<0.01
Upper Bound		1.0	0.04	10	20	1.0	4	0.62	1.0	31	19	37	7.65	20	0.02
L065053															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	0.023														
DUP	0.024														
Target Range - Lower Bound	0.017														
Upper Bound	0.030														
ORIGINAL	0.043														
DUP	0.042														
Target Range - Lower Bound	0.035														
Upper Bound	0.050														
ORIGINAL	0.008														
DUP	0.007														
Target Range - Lower Bound	<0.005														
Upper Bound	0.010														
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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QC CERTIFICATE OF ANALYSIS TB18155431

Sample Description / Method / Analyte / Units / LOD	ME- ICP61 U ppm 10	ME- ICP61 V ppm 1	ME- ICP61 W ppm 10	ME- ICP61 Zn ppm 2	PGM- ICP23 Au ppm 0.001	PGM- ICP23 Pt ppm 0.005	PGM- ICP23 Pd ppm 0.001	Au- AA23 Au ppm 0.005
DUPLICATES								
L065058	<10	1	<10	5				
DUP	<10	1	<10	11				
Target Range - Lower Bound	<10	<1	<10	6				
Upper Bound	20	2	20	10				
L065053								<0.005
DUP								<0.005
Target Range - Lower Bound								<0.005
Upper Bound								0.010
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL								
DUP								
Target Range - Lower Bound								
Upper Bound								
ORIGINAL					3.39	<0.005	0.001	
DUP					3.44	<0.005	0.001	
Target Range - Lower Bound					3.24	<0.005	<0.001	
Upper Bound					3.59	0.010	0.002	
ORIGINAL					0.010	<0.005	<0.001	
DUP					0.010	<0.005	<0.001	
Target Range - Lower Bound					0.009	<0.005	<0.001	
Upper Bound					0.012	0.010	0.002	
ORIGINAL					0.003	<0.005	<0.001	
DUP					0.001	<0.005	<0.001	
Target Range - Lower Bound					<0.001	<0.005	<0.001	
Upper Bound					0.003	0.010	0.002	

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QC CERTIFICATE OF ANALYSIS TB18155431

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU- 31	CRU- QC	LOG- 21	PUL- 31
	PUL- QC	SPL- 21	WEI- 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au- AA23	Au- AA24	ME- ICP61	PGM- ICP23