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2015 PROSPECTING REPORT

CLAIMS #4266337, 4266338, 4266341, 4266342, 4266343, 4266344, 4266345, 4266346, 4266347, 4266348

Leslie Project

THUNDER BAY MINING DISTRICT

Prepared By: Martin Drennan, P. Eng
May 6, 2017

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1. Work Summary

Work during 2015, was limited to surface anomaly identification and one set of assays for samples collected. The assays were of assistance to indicate potential anomaly areas. The period work was used to identify areas for further perspective in 2016.

Work was completed by myself, Martin Drennan and James Thompson.

2. Introduction

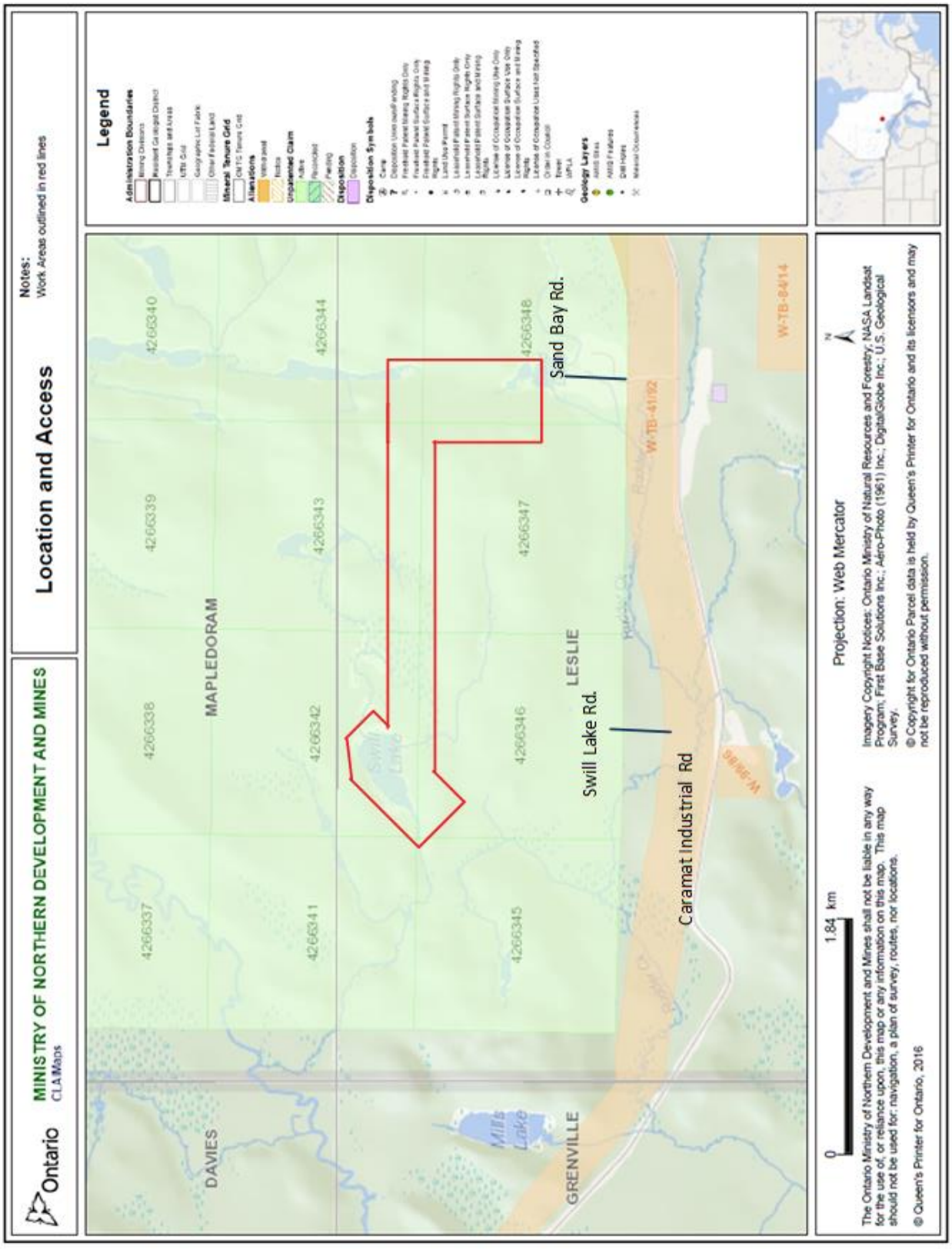
This report is a description of the work completed and the geology for 26 claims in the Leslie and Mapledoram Townships in the Thunder Bay Mining District. The claims can be described as being located in the Manitouwadge mining camp (as defined by previous copper producers – Wilroy and Geco Mines).

The work in this report has been reviewed by the author and determined to be accurate. These claims are held by the author.

3. Location and Access

Leslie Township is located south east of Thunder Bay. Access is via Regional Road 614 to Caramat Industrial road. Caramat Industrial leads to 2 access roads – Sand Bay Road and Swill Lake Road. Both access roads were used to access the work areas. See Figure 1 – Location and Access (work areas are highlighted with red lines). No area organize was established to define "working areas" as the initial work was to establish anomaly locations. Once anomaly locations are established – a reference will be defined.

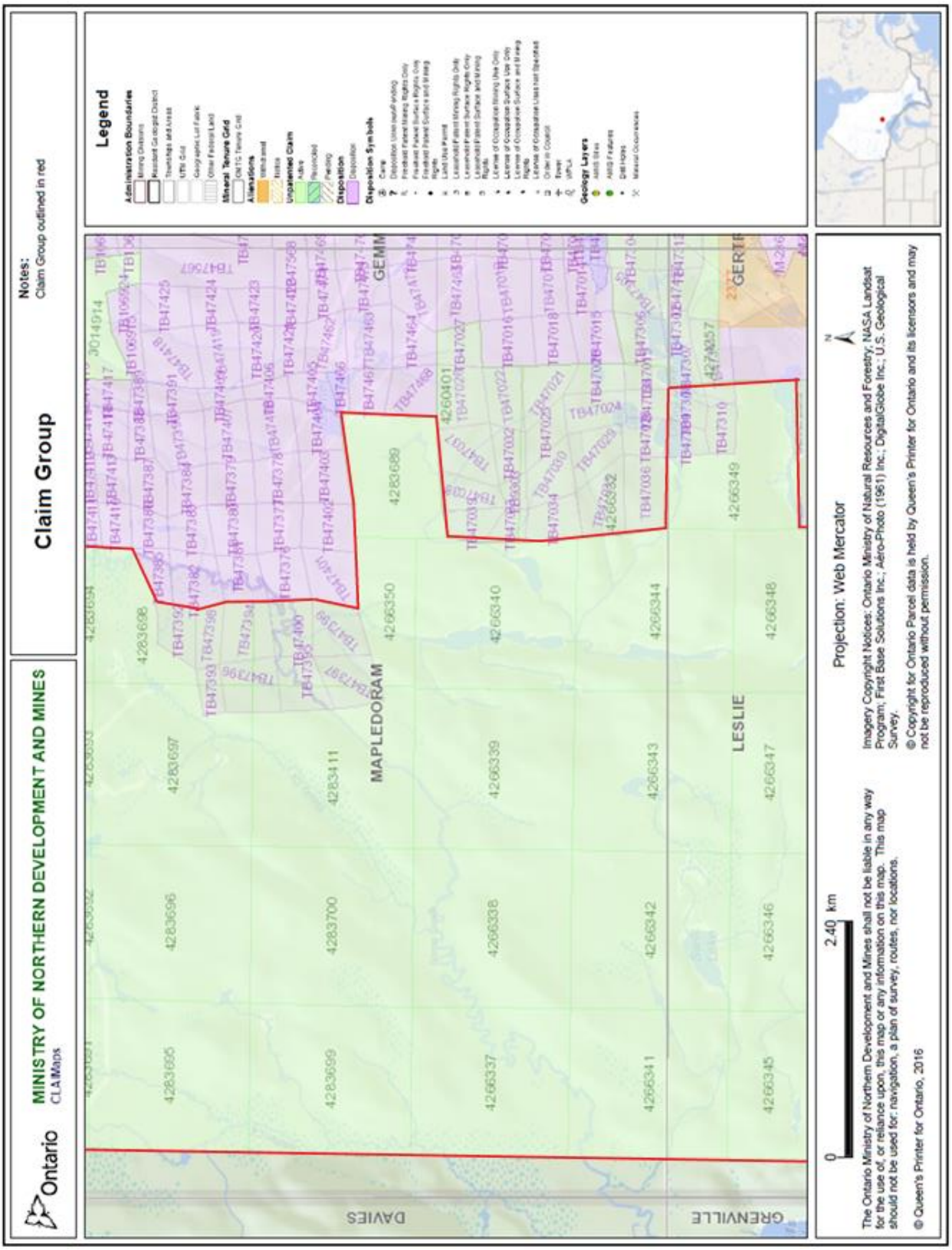
Figure 1 – Location and Access



4. Property Description

The claim group consists of 26 claims in Manitouwadge area within the Thunder Bay Mining District. See Figure 2 –Claim Group Map. The claims are a continuous package with the eastern claims adjacent to the patented Geco Mine claims and some surface property lots. The claims are: 4266337, 4266338, 4266339, 4266340, 4266341, 4266342, 4266343, 4266344, 4266345, 4266346, 4266347, 4266348, 4266349, 4266350, 4283411, 4283689, 4283691, 4283692, 4283693, 4283694, 4283695, 4283696, 4283697, 4283698, 4283699, 4283700.

Figure 2 –Claim Group Map



5. Regional Geology

Topography in the area is a mix of low areas with water and hills/ridges with a general east-west orientation. Outcrops are common of hillsides with numerous fragmented rocks buried in soil.

Vegetation is principally coniferous, and deciduous trees as well as numerous alder bush. In low lying areas, grass and cedars are predominant.

The regional geology is a typical of the Abititibi-Wawa metavolcanic belt. Rock types consist of Gneiss group consisting of grey, granite and sedimentary Gneiss groups. Additionally, amphibolites and quartz-felspathic gneisses.[1] The quartz structures are narrow 1-15cms in width with occasional minor pyrite mineralization (bull quartz).

6. Work History

Work has been completed by Noranda which included magnetometer, followed by diamond drilling in any anomalous areas.[2] Other companies such as OKLECO, OKLEND, Delmico Mines and C.H.I.P. Mines performed magnetometer and geological surveys.[3] Anomalies appear to have been followed up with additional work including diamond drill. Unfortunately, no details on diamond drill results have been found by this author. Previous authors elude to finding results and reference to "G.D.I.F. 190 for further information".[4]

7. Work this Period

   a. March, 2015

      March was the initial investigation of the Manitouwadge area. Several areas were looked. Weather conditions were a major limitation with over 60cms of snow and temperatures ranging between -15 and -30C.

      Claim areas were investigated as best as possible visually. Four days were used for this investigation period.

Period Daily Log:

March 25, 2015
- M. Drennan and James Thompson visited north and east areas of Manitouwadge. Drove toward Hornpayne and Hillsport.

March 26, 2015
- M. Drennan and James Thompson visited north and west areas of Manitouwadge. Drove toward Caramat and Hillsport.

March 27, 2015
- M. Drennan and James Thompson visited south areas of Manitouwadge. Drove toward Hemlo.

b. May, 2015

Arrangements were made with Alex Pleson to stake claims. During the staking, the author was able to visit several areas with the stakers. Several rock samples were looked at during this period and areas of note were identified by stakers. These were noted and taken as initial areas of investigation.

Period Daily Log:

May 9, 2015
- M. Drennan met with Alex Pleson and crew at Sand Lake.

May 10, 2015
- M. Drennan met with Alex Pleson and crew along Caramat Industrial Road and Swill Rd.

c. July, 2015

July was the first focused work period where ground and terrain was visible. The initial work (Days 1 through 4) were traversing north of the Sand Lake area. Several outcrops were encountered. Rock types were granite. No sampling was warranted from mineralization noted. Traverse was limited to the loop bound by 580068E, 5442297N; 580135E, 5443262N; 579038E, 5443296N; 579057E, 5442929N; 579849E, 5442808N. Areas of previous exploration were encountered with drill steel and partial cores noted. Based on this encountered remnants of work the area was set aside as a focus. The previous work (assumed Noranda) had obviously not warranted further investigation. This data resulted in seeking a new area to investigate.

Days 5 through 11 were focused on a new area. Initial areas of investigation were bound by 576525E, 5442416N; 575951E, 5443067N; 576691E, 5443264N; 577008E, 5443004N; 576353E, 5442794N. Days 5 and 6 were used to identify areas of interest. Several areas were identified and from these areas samples were taken. A strategy was employed where 1 random sample was grabbed from a stream (576144E, 5442905N) for a background reference. Three sample areas were identified and the following sampling method was used.

The sampling method required 3 excavations. The rocks encountered during excavation were sorted and put into a sample bag. When bedrock was encountered – chip samples were taken and bagged.

The results of this campaign are in the Appendix - ActLabs. Samples are numbered as shown in Table 1.

Table 1 – Sample Assignments

Sample No.	Location/ Chip or Grab or Random
1	576178E, 5443101N / Chip
2	576178E, 5443101N / Grab
3	577221E, 5443030N/ Chip
4	577221E, 5443030N/ Grab
5	576686E, 5443120N/ Chip
6	576686E, 5443120N/ Grab
7	576127E, 5442924N / Random

Figure 3 – Example of Fragmented Rock by Outcrop

Period Daily Log:

July 12-13, 2015
2 prospectors went to Sand Lake. Walked animal trail north to water area. Encountered granite outcrop. No significant mineralization. All the work was completed on Claim #4266343

July 14-15, 2015
2 prospectors returned to Sand Lake. Progressed westerly at water/swamp area. Outcrops noted - granite and mafic volcanics further west. No significant mineralization noted. Found diamond drilling setup - broken cores and steel.

July 16-17, 2015

- 2 prospectors went to Swill Lake Rd area. Started looking for outcrops/areas for samples. Outcrops noted - mafic volcanic. Samples 1-4 taken. 1 and 3 chip 2 and 4 grab. All the work was completed on Claim #4266342

July 18, 2015

- 2 prospectors went to Swill Lake Rd area. Started looking for outcrops/areas in old Granges area. Area had mafic volcanic outcrops. Nothing warranted sampling.

July 19-20, 2015

- 2 prospectors went to Swill Lake Rd area. Started looking for outcrops/areas for samples. Outcrops noted - mafic volcanics. Samples 5-6 taken - 5 chip, 6 grab. All the work was completed on Claim #4266342

July 21, 2015

- 2 prospectors went to Swill Lake Rd area. Worked west side of road up creek. Grabbed a random sample from creek. Sample 7 taken - random grab. Nothing significant noted - bug country! All the work was completed on Claim #4266341

d. August, 2015

Assay results were not received. Surface inspections were undertaken. Samples were contemplated as an option for this period, however, it was warranted to wait to see what the initial samples returned.

With this rationale in place, surface traverses were undertaken in around the west, north and south portions of Swill Lake. Several "areas of interest" were identified. Based, on the assay results these areas would be classed in a graded primary, secondary and tertiary priority.
Areas in the South Swill were noted to have more granite with outcrops by the lake and fewer outcrops moving south away from the lake.

North Swill was noted as granite/ amphibolites and quartz-felspathic gneisses.

Lastly, areas west of Swill Lake were traversed and areas were identified with a positive/immediate investigative value.

This preliminary work was set to be valued by the assay data.

Period Daily Log:

August 6, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north of Swill Lake on the south hill side. Area had no outcrops noted. All the work was completed on Claim #4266342.

August 7-8, 2015
- 2 prospectors went to Swill Lake Rd area. Walked south of Swill Lake on the north hill side. Area had few outcrops noted - mafic volcanics. All the work was completed on Claim #4266342.

August 9-10, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north and west of Swill Lake. Area had outcrops noted - amphibolites and quartz-felspathic. All the work was completed on Claim #4266342.

August 11, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north and east of Swill Lake on the north slope side. Area had outcrops noted - mafic volcanics. All the work was completed on Claim #4266342.

August 12, 2015
- 2 prospectors went to Swill Lake Rd area. Walked south and west of Swill Lake on the north slope side. Area had outcrops noted - mafic volcanics. All the work was completed on Claim #4266342.

August 13-14, 2015
- 2 prospectors went to Swill Lake Rd area. Walked south and east of Swill Lake on the north slope side. Area had outcrops noted - mafic volcanics. All the work was completed on Claim #4266342.

August 15-16, 2015
- 2 prospectors went to Swill Lake Rd area. Walked south and west of Swill Lake on the south slope side. Area had few outcrops noted - mafic volcanics. All the work was completed on Claim #4266342.

e. September, 2015

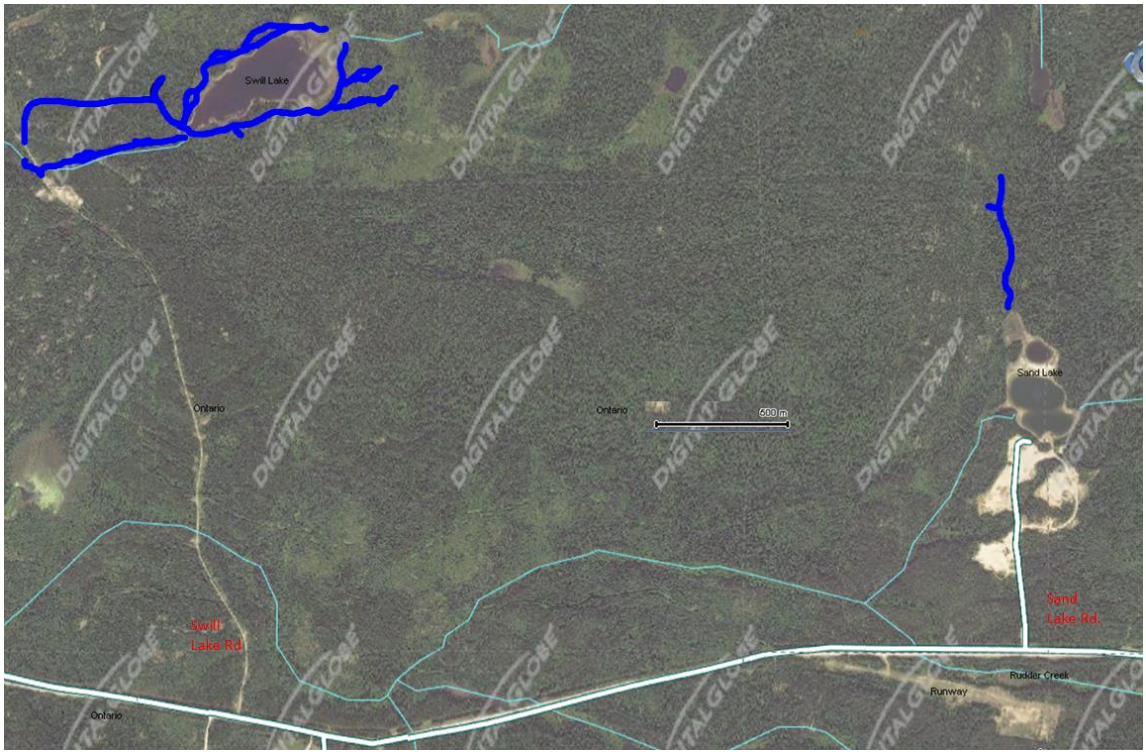
Assay results were received in early September. Upon review of the assay report, a plan was developed to review specific areas. The areas determined were to the east of the access road and north of the old logging road access

Figure 4 - Old Logging Road Access

Work was initiated in September on the northwest of the random sample location as a preliminary investigation. The south hill side (north of the lake) was traversed to note any occurrences of similar rock type samples. No similarities were correlated from the precursor surface traverses. This area was found to not be of interest at this time and was set aside to be investigated in 2016.

Unfortunately, September's efforts were unexpectedly cut short due to personnel – personal issues. As such this work was moved to the next work period.

Figure 5 – Sample Traverses in August and September



Period Daily Log:

August 27-28, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north of logging road eastward to Swill Lake. No significant mineralization noted. All the work was completed on Claim #4266342.

August 29, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north of Swill Lake - on the south hill side. Looking specifically for assay type sample - Sample 2 - cu/zn anomoly. No significant mineralization noted. All the work was completed on Claim #4266342.

August 30-31, 2015
- 2 prospectors went to Swill Lake Rd area. Walked north of Swill Lake - on the south hill side. Looking specifically for assay type sample - Sample 2 - cu/zn anomoly. No significant mineralization noted. All the work was completed on Claim #4266342.

September 1, 2015
- 2 prospectors went to Swill Rd. Traversed further east of where were yesterday. No significant results.

September 2-3, 2015

- 2 prospectors went to Swill Lake. Went to same area as sample 2. Is this actual host rock or big piece of something else? Looking for similar rock...no luck. All the work was completed on Claim #4266342.

September 27, 2015

- 2 prospectors went to Swill Lake. Went to recheck west end on hill near Swill Lake. No significant mineralization noted.

f. October, 2015

Late October was the next rotation. The work was slower with only one person available for traverses and sampling. The assay results indicated grades for copper and zinc were elevated to west of random sample location. The grab samples were higher than the chip samples in all areas.

As such, the choices were limited to – where was the source of the buried grab samples? Weighing the terrain and other indicators, the assumption was to start on the west area of samples 2 and 4. Surface traverses were undertaken. Indicator rock types were found. As an example, the rock type as shown in Figure 6.

Figure 6 – Rock Type of Interest

Additionally, indicator rocks were found that are believed to show glacial movement - see Figure 7.

Figure 7 – Glacial Movement Indicator Rock

Period Daily Log:

October 27, 2015

- 1 prospector went to Swill Lake Rd area. Drove to end of logging road. Checked out west end of hill north of Swill Lake. Walked the hill - no significant mineralization noted. All the work was completed on Claim #4266342.

October 28-29, 2015

- 1 prospector went to Swill Lake Rd area. Drove to lake. Checked out west end of hill north of Swill Lake. Walked the hill on the north side (west portion) - no significant mineralization noted. All the work was completed on Claim #4266342.

October 30-31, 2015

- 1 prospector went to Swill Lake Rd area. Drove to lake. Checked out west end of hill north of Swill Lake. Walked back to west - no significant mineralization noted. All the work was completed on Claim #4266342.

November 1, 2015

- 1 prospector went to Swill Lake Rd area. Checked out north of logging road.. Walked north on traverse to see if could find similar sample mineralization - no significant mineralization noted. All the work was completed on Claim #4266342.

November 2-3, 2015

- 1 prospector went to Swill Lake Rd area. Checked out north of logging road.. Walked north on traverse to see if could find similar sample mineralization - no significant mineralization noted. All the work was completed on Claim #4266342.

November 4-5, 2015

- 1 prospector went to same area as yesterday. Went north then west for similar sample mineralization - no significant mineralization noted. All the work was completed on Claim #4266342.

November 6, 2015

- 1 prospector went to sample location again. Solution by elimination. Headed south east - no significant mineralization noted. All the work was completed on Claim #4266342.

November 7, 2015

- 1 prospector went to sample location again. Headed south west - no significant mineralization noted. All the work was completed on Claim #4266342.

November 8-9, 2015

- 1 prospector went to sample location again. Solution by elimination. Headed north west (more north)- no significant mineralization noted. All the work was completed on Claim #4266342.

November 10, 2015

- 1 prospector drove further up Swill Rd to active logging area. Headed east and traversed north/south- no significant mineralization noted. All the work was completed on Claim #4266338.

November 11-12, 2015

- 1 prospector drove further up Swill Rd to active logging area. Headed west and traversed north/south- no significant mineralization noted. All the work was completed on Claim #4266337.

November 12-13, 2015
- 1 prospector drove Swill Rd to logging rd access. Headed east and south - found similar rock type. All the work was completed on Claim #4266342.

November 14, 2015
- 1 prospector drove Swill Rd to logging rd access. Headed east and north of lake - no significant mineralization noted. All the work was completed on Claim #4266342.

November 15, 2015
- 1 prospector drove Swill Rd to logging rd access. Headed further east and south - no significant mineralization noted. All the work was completed on Claim #4266342.

g. November,2015

November was focused on gathering as much surface data as possible. Daily traverses were undertaken radiating out from the assay data sources (specifically samples 2 and 4) utilizing the indicators encountered as well as theories on sample migration sources. The only data accumulated in November was investigative areas for 2016.

<u>Period Daily Log:</u>

November 24, 2015
- 1 prospector drove Swill Rd to logging rd access. Headed east on south side of lake - no significant mineralization noted. All the work was completed on Claim #4266342.

November 25, 2015
- 1 prospector drove Swill Rd to logging rd access. Walked creek (north side) back to the road - no significant mineralization noted. All the work was completed on Claim #4266342.

November 26, 2015
- 1 prospector drove Swill Rd to logging rd access. Walked creek (south side) back to the road - no significant mineralization noted. All the work was completed on Claim #4266342.

November 27-28, 2015

- 1 prospector drove Swill Rd to logging rd access. Walked lake (south side), swamp areas freezing - no significant mineralization noted. All the work was completed on Claim #4266342.

November 29, 2015

- 1 prospector drove Swill Rd to logging rd end by lake. Walked south of lake up slope and hills- no significant mineralization noted. All the work was completed on Claim #4266342, #4266346.

8. Data Procedures

ActLabs was selected to completed detailed assays on 7 samples. The element analysis and standards are outlined in Table 1 – ActLabs QC.

Activation Laboratories Ltd. **Report: A15-06682**

QC

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas	3280	31.6	32	1130	1.8	14	725	40	< 20	746	740	0.25	1.79	420	800	1	1380	< 0.5	0.88	9	16	< 1	0.8
GXR-1 Cert	3300	31.0	31.0	1110	3.30	18.0	730	41.0	41.0	760	760	0.257	3.52	427	750	1.22	1380	0.500	0.960	8.20	12.0	3.00	0.690
GXR-4 Meas		3.4		6500	< 0.3	294	43	40		70		1.79	6.74			2	16		1.05				
GXR-4 Cert		4.0		6520	0.860	310	52.0	42.0		73.0		1.77	7.20			1.90	19.0		1.01				
SDC-1 Meas				32			20	39		89			8.05			3			1.08				
SDC-1 Cert				30.000			25.00	38.0		103.00			8.34			3.00			1.00				
DNC-1a Meas				101			< 3	254		60													
DNC-1a Cert				100.00			6.3	247		70.0													
SBC-1 Meas				30	< 0.3	2	29	86		181						3	< 2						
SBC-1 Cert				31.0000	0.40	2.40	35.0	82.8		186.0						3.20	0.70						
OREAS 45d (4-Acid) Meas				374		3	18	236		42		0.04	7.54			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371.0		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
SdAR-M2 (U.S.G.S.) Meas				244	5.0	9	830	51		780						7	< 2						
SdAR-M2 (U.S.G.S.) Cert				236.0000	5.1	13.3	808	48.8		760						6.6	1.06						
DMMAS 118 Meas	1660													1720	1220					45	86		
DMMAS 118 Cert	1729													1661	1264					45	83		
DMMAS 118 Meas	1720													1700	1060					43	73		
DMMAS 118 Cert	1729													1661	1264					45	83		
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank	< 2		< 5						< 20		< 50			< 0.5	< 50			< 0.5		< 1	< 2	< 1	< 0.2
Method Blank	< 2		< 5						< 20		< 50			< 0.5	< 50			< 0.5		< 1	< 2	< 1	< 0.2

QC

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
GXR-1 Meas	24.1	< 1	< 1		0.04	8	0.20	916	0.05	0.062	< 15	120	1.6	18	285	< 0.5	0.03	2.3	35.6	88	164	34	7.3
GXR-1 Cert	23.6	0.960	3.90		0.050	8.20	0.217	852	0.0520	0.0650	14.0	122	1.58	16.6	275	0.175	0.036	2.44	34.9	80.0	164	32.0	7.50
GXR-4 Meas					2.40	12	1.68	167		0.136					213		0.29			86		15	
GXR-4 Cert					4.01	11.1	1.66	155		0.120					221		0.29			87.0		14.0	
SDC-1 Meas					2.26	34	0.99	878		0.056					172		0.16			47			
SDC-1 Cert					2.72	34.00	1.02	880.00		0.0690					180.00		0.606			102.00			
DNC-1a Meas						4									128		0.29			141		17	
DNC-1a Cert						5.20									144.0		0.29			148.00		18.0	
SBC-1 Meas						154									172		0.49			212		31	
SBC-1 Cert						163.0									178.0		0.51			220.0		36.5	
OREAS 45d (4-Acid) Meas					0.40	20	0.24	501		0.035					32		0.17			118		13	
OREAS 45d (4-Acid) Cert					0.412	21.50	0.245	490.000		0.042					31.30		0.773			235.0		9.53	
SdAR-M2 (U.S.G.S.) Meas						18									144					26		29	

Activation Laboratories Ltd. **Report: A15-06682**

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
SdAR-M2 (U.S.G.S.) Cert						17.9									144					25.2		32.7	
DMMAS 118 Meas	3.38								2.25			6.6	6.4						14.7				17.3
DMMAS 118 Cert	3.25								2.21			6.6	6.1						15.9				16.9
DMMAS 118 Meas	3.38								2.23			6.8	6.1						15.7				16.8
DMMAS 118 Cert	3.25								2.21			6.6	6.1						15.9				16.9
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5

QC

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.01	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas	16	17	2.6	< 0.01	< 0.5	1.9	0.27	
GXR-1 Cert	17.0	18.0	2.70	0.00540	0.830	1.90	0.280	
GXR-4 Meas								
GXR-4 Cert								
SDC-1 Meas								
SDC-1 Cert								
DNC-1a Meas								
DNC-1a Cert								
SBC-1 Meas								
SBC-1 Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
SdAR-M2 (U.S.G.S.) Meas								
SdAR-M2 (U.S.G.S.) Cert								
DMMAS 118 Meas	32		2.3					
DMMAS 118 Cert	30		2.2					
DMMAS 118 Meas	29		2.4					
DMMAS 118 Cert	30		2.2					
Method Blank								
Method Blank								
Method Blank								
Method Blank								
Method Blank	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2	< 0.05	1.00
Method Blank	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2	< 0.05	30.0

9. Conclusion and Recommendations

The year was reasonable with respect to results. Assay results were indicative of Cu and Zn values. Though values were not significant relative to areas mined in the region, they were anomalous relative to the sample data. The data discovered and assembled over this year indicates that some increased Cu and Zn values are likely located to the easterly direction from where the sample data was retrieved. Rock migration distances are a significant question. This leads to a major question – were these rocks migrated from either Wilroy or Geco Mine areas?

For 2016, it is recommended that investigations be undertaken to the east (north, east and south portions). Assay data should be used only for chip samples from buried/covered rock to reduce the potential of leached values. More samples or inspection from bedrock.

10. References

1. GRANGES INC., MAN PROJECT, GEMMEL, GERTRUDE, MAPLEDORAM AND LESLIE TOWNSHIPS CENTRAL AND NORTH CENTRAL GRID GEOLOGY REPORT, Warren Bates, B.Se., Hons. Geol August 6, 1993 (Page 2)
2. GRANGES INC., MAN PROJECT, GEMMEL, GERTRUDE, MAPLEDORAM AND LESLIE TOWNSHIPS CENTRAL AND NORTH CENTRAL GRID GEOLOGY REPORT, Warren Bates, B.Se., Hons. Geol August 6, 1993 (Page 3)
3. GRANGES INC., MAN PROJECT, GEMMEL, GERTRUDE, MAPLEDORAM AND LESLIE TOWNSHIPS CENTRAL AND NORTH CENTRAL GRID GEOLOGY REPORT, Warren Bates, B.Se., Hons. Geol August 6, 1993 (Page 3)
4. GRANGES INC., MAN PROJECT, GEMMEL, GERTRUDE, MAPLEDORAM AND LESLIE TOWNSHIPS CENTRAL AND NORTH CENTRAL GRID GEOLOGY REPORT, Warren Bates, B.Se., Hons. Geol August 6, 1993 (Page 3)

11. Appendix

Quality Analysis ... *Innovative Technologies*

Date Submitted: 17-Aug-15
Invoice No.: A15-06682
Invoice Date: 03-Sep-15
Your Reference:

Martin Drennan
37 Spruceside Ave
Hamilton ON L8P 3Y2
Canada

ATTN: Martin Drennan

CERTIFICATE OF ANALYSIS

7 Rock samples were submitted for analysis.

The following analytical package was requested: Code 1H INAA(INAAGEO)/Total Digestion ICP(TOTAL)
Code Weight Report (kg)-Internal Received Weights

REPORT **A15-06682**

Notes:

Elements which exceed the upper limits should be analyzed by assay techniques. Some elements are reported by multiple techniques. These are indicated by MULT.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

SCC Accredited LAB
LAB Accrédité CCN

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Hg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.3	1	0.3	1	3	1	1	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2	0.01	1	1
Method Code	INAA	MULT INAA / TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	MULT INAA / TD-ICP	MULT INAA / TD-ICP	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	INAA	INAA	INAA
1	< 2	1.7	120	0.9	5	18	88	390	10.9	1.43	10.1	< 50	< 1	< 2	< 0.5	0.29	48	39	< 1	0.2	14.7	< 1	< 1
2	< 2	3.9	622	6.2	9	19	209	2520	> 20.0	0.86	19.3	< 50	< 1	4	< 0.5	0.43	135	68	< 1	< 0.2	41.8	< 1	< 1
3	< 2	2.5	366	0.6	4	17	210	381	> 20.0	0.90	< 0.5	< 50	< 1	3	< 0.5	0.87	140	78	< 1	0.4	43.3	< 1	< 1
4	< 2	1.8	328	1.8	4	33	85	738	10.9	2.94	< 0.5	< 50	< 1	3	< 0.5	0.28	50	47	< 1	< 0.2	14.9	< 1	< 1
5	< 2	0.4	49	< 0.3	< 1	46	25	80	1.37	8.60	3.0	540	1	< 2	< 0.5	2.43	11	41	2	0.5	3.08	2	< 1
6	< 2	< 0.3	13	< 0.3	< 1	7	19	47	0.22	6.78	< 0.5	520	1	< 2	< 0.5	2.17	9	57	3	< 0.2	2.44	2	< 1
7	< 2	< 0.3	8	< 0.3	< 1	8	25	64	0.08	6.68	1.1	560	1	< 2	< 0.5	2.36	10	68	< 1	0.6	2.95	3	< 1

Results

Analyte Symbol	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La	Ce	Nd	Sm
Unit Symbol	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5	3	5	0.1
Method Code	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
1	< 5	0.72	6	0.21	254	0.43	0.012	< 15	< 0.1	2.6	< 3	45	< 0.5	0.06	< 0.2	1.6	19	< 1	4	3.3	< 3	< 5	0.6
2	< 5	0.19	6	0.34	473	0.26	0.016	< 15	< 0.1	2.9	< 3	40	< 0.5	0.05	1.1	< 0.5	35	< 1	3	4.5	< 3	< 5	0.6
3	< 5	0.17	7	0.68	608	0.17	0.032	< 15	< 0.1	4.1	< 3	37	< 0.5	0.05	1.4	< 0.5	37	< 1	6	7.1	13	< 5	1.6
4	< 5	1.43	15	0.31	470	0.80	0.022	< 15	< 0.1	5.0	< 3	98	< 0.5	0.12	1.7	< 0.5	47	< 1	4	5.3	7	< 5	1.0
5	< 5	2.11	20	0.86	302	3.14	0.054	50	< 0.1	3.4	< 3	397	< 0.5	0.21	3.2	< 0.5	39	< 1	7	19.3	49	10	3.2
6	< 5	1.48	12	0.69	331	3.24	0.034	< 15	< 0.1	6.1	< 3	459	< 0.5	0.17	4.8	< 0.5	45	< 1	8	12.6	21	< 5	2.1
7	< 5	1.67	15	0.90	460	3.36	0.037	< 15	< 0.1	8.2	< 3	382	< 0.5	0.23	5.5	< 0.5	59	< 1	11	13.1	36	12	2.7

Results

Analyte Symbol	Sn	Tb	Yb	Lu	Mass
Unit Symbol	%	ppm	ppm	ppm	g
Lower Limit	0.01	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA
1	< 0.01	< 0.5	0.4	0.09	1.46
2	< 0.01	< 0.5	< 0.2	< 0.05	1.98
3	< 0.01	< 0.5	< 0.2	0.18	2.01
4	< 0.01	< 0.5	0.6	0.19	1.49
5	< 0.01	< 0.5	0.6	< 0.05	31.8
6	< 0.01	< 0.5	0.9	< 0.05	32.3
7	< 0.01	< 0.5	1.2	0.05	30.5

QC

Analyte Symbol	Au	Ag	Ag	Cu	Cd	Mo	Pb	Ni	Ni	Zn	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.3	5	1	0.3	1	3	1	20	1	50	0.01	0.01	0.5	50	1	2	0.5	0.01	1	2	1	0.2
Method Code	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	INAA	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA
GXR-1 Meas	3280	31.6	32	1130	1.8	14	725	40	< 20	746	740	0.25	1.79	420	800	1	1380	< 0.5	0.88	9	16	< 1	0.8
GXR-1 Cert	3300	31.0	31.0	1110	3.30	18.0	730	41.0	41.0	760	760	0.257	3.52	427	750	1.22	1380	0.500	0.960	8.20	12.0	3.00	0.690
GXR-4 Meas		3.4		6500	< 0.3	294	43	40		70		1.79	6.74			2	16		1.05				
GXR-4 Cert		4.0		6520	0.860	310	52.0	42.0		73.0		1.77	7.20			1.90	19.0		1.01				
SDC-1 Meas				32			20	39		99			8.05			3			1.08				
SDC-1 Cert				30.000			25.00	38.0		103.00			8.34			3.00			1.00				
DNC-1a Meas				101			< 3	254		60													
DNC-1a Cert				100.00			6.3	247		70.0													
SBC-1 Meas				30	< 0.3	2	29	86		181						3	< 2						
SBC-1 Cert				31.0000	0.40	2.40	35.0	82.8		186.0						3.20	0.70						
OREAS 45d (4-Acid) Meas				374		3	18	236		42		0.04	7.54			< 1	< 2		0.19				
OREAS 45d (4-Acid) Cert				371.0		2.500	21.8	231.0		45.7		0.049	8.150			0.79	0.31		0.185				
SdAR-M2 (U.S.G.S.) Meas				244	5.0	9	830	51		780						7	< 2						
SdAR-M2 (U.S.G.S.) Cert				236.0000	5.1	13.3	808	48.8		760						6.6	1.05						
DMMAS 118 Meas	1660													1720	1220					45	86		
DMMAS 118 Cert	1729													1661	1264					45	83		
DMMAS 118 Meas	1720													1700	1060					43	73		
DMMAS 118 Cert	1729													1661	1264					45	83		
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank		< 0.3		< 1	< 0.3	< 1	< 3	< 1		< 1		< 0.01	< 0.01			< 1	< 2		< 0.01				
Method Blank	< 2		< 5						< 20		< 50			< 0.5	< 50			< 0.5		< 1	< 2	< 1	< 0.2
Method Blank	< 2		< 5						< 20		< 50			< 0.5	< 50			< 0.5		< 1	< 2	< 1	< 0.2

QC

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
GXR-1 Meas	24.1	< 1	< 1		0.04	8	0.20	916	0.05	0.062	< 15	120	1.6	18	285	< 0.5	0.03	2.3	35.6	88	164	34	7.3
GXR-1 Cert	23.6	0.960	3.90		0.050	8.20	0.217	852	0.0520	0.0650	14.0	122	1.58	16.6	275	0.175	0.036	2.44	34.9	80.0	164	32.0	7.50
GXR-4 Meas					2.40	12	1.68	167		0.136					213		0.29			86		15	
GXR-4 Cert					4.01	11.1	1.66	155		0.120					221		0.29			87.0		14.0	
SDC-1 Meas					2.26	34	0.99	878		0.056					172		0.16			47			
SDC-1 Cert					2.72	34.00	1.02	880.00		0.0690					180.00		0.606			102.00			
DNC-1a Meas						4									128		0.29			141		17	
DNC-1a Cert						5.20									144.0		0.29			148.00		18.0	
SBC-1 Meas						154									172		0.49			212		31	
SBC-1 Cert						163.0									178.0		0.51			220.0		36.5	
OREAS 45d (4-Acid) Meas					0.40	20	0.24	501		0.035					32		0.17			118		13	
OREAS 45d (4-Acid) Cert					0.412	21.50	0.245	490.000		0.042					31.30		0.773			235.0		9.53	
SdAR-M2 (U.S.G.S.) Meas						18									144					26		29	

Analyte Symbol	Fe	Hf	Hg	Ir	K	Li	Mg	Mn	Na	P	Rb	Sb	Sc	Se	Sr	Ta	Ti	Th	U	V	W	Y	La
Unit Symbol	%	ppm	ppm	ppb	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	1	1	5	0.01	1	0.01	1	0.01	0.001	15	0.1	0.1	3	1	0.5	0.01	0.2	0.5	2	1	1	0.5
Method Code	INAA	INAA	INAA	INAA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	INAA	TD-ICP	INAA	INAA	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA	INAA	TD-ICP	INAA	TD-ICP	INAA
SdAR-M2 (U.S.G.S.) Cert						17.9									144					25.2		32.7	
DMMAS 118 Meas	3.38								2.25			6.6	6.4						14.7				17.3
DMMAS 118 Cert	3.25								2.21			6.6	6.1						15.9				16.9
DMMAS 118 Meas	3.38								2.23			6.8	6.1						15.7				16.8
DMMAS 118 Cert	3.25								2.21			6.6	6.1						15.9				16.9
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank					< 0.01	< 1	< 0.01			< 0.001					< 1		< 0.01			< 2		< 1	
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5
Method Blank	< 0.01	< 1	< 1	< 5					< 0.01		< 15	< 0.1	< 0.1	< 3		< 0.5		< 0.2	< 0.5		< 1		< 0.5

QC

Analyte Symbol	Ce	Nd	Sm	Sn	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	g
Lower Limit	3	5	0.1	0.01	0.5	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas	16	17	2.6	< 0.01	< 0.5	1.9	0.27	
GXR-1 Cert	17.0	18.0	2.70	0.00540	0.830	1.90	0.280	
GXR-4 Meas								
GXR-4 Cert								
SDC-1 Meas								
SDC-1 Cert								
DNC-1a Meas								
DNC-1a Cert								
SBC-1 Meas								
SBC-1 Cert								
OREAS 45d (4-Acid) Meas								
OREAS 45d (4-Acid) Cert								
SdAR-M2 (U.S.G.S.) Meas								
SdAR-M2 (U.S.G.S.) Cert								
DMMAS 118 Meas	32		2.3					
DMMAS 118 Cert	30		2.2					
DMMAS 118 Meas	29		2.4					
DMMAS 118 Cert	30		2.2					
Method Blank								
Method Blank								
Method Blank								
Method Blank								
Method Blank	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2	< 0.05	1.00
Method Blank	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.2	< 0.05	30.0