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# Report on 2015 Till Survey

Nikos Explorations Ltd.

Borden Lake Extension Project, Chapleau, Ontario



Roger Moss, Ph.D., P.Ge

March 21, 2016

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## 1. Summary

During the period August 16, 2015 to November 6, 2015 Nikos Explorations Ltd. (Nikos) carried out a till sampling survey over a portion of its Borden Lake Extension Project near Chapleau, Ontario. This survey aimed to follow up on results of initial sampling carried out in 2014 and to test areas of till identified by the Ontario Geological Survey's surficial mapping of the Chapleau area (Gao, 2011; 2013; 2014).

Geological mapping is hampered by lack of outcrop in the area. Very few outcrops are present and most of the rock on the property appears to be glacial float and includes many large boulders. Exploration to date has therefore aimed to check for responses through the overburden. Initial soil sampling and analysis for soil gas hydrocarbons (SGH) was successful in delineating an anomaly over two lines across the northwest-southeast trending lineaments (Sutherland, 2013). Several conductors were identified by a 2014 VLF-EM survey, the longest of which stretches for 2.2km along the northwest-southeast trend (Moss, 2014). An infill VLF-EM survey in 2015 covered 6.23 line kilometres and confirmed the presence of conductors found in the earlier survey and also extended the conductors further to the northwest (Moss, 2015).

Till sampling was undertaken over areas covered by the VLF Surveys where till was well developed. At each site two samples were taken, a small (approximately 1 lb) sample for multi-element geochemical analysis and a larger (12 to 30lb) sample for shaking table concentration and gold grain count. One geochemical sample, located immediately down ice of three VLF conductors, shows a value of 54ppb. Of the 16 bulk samples submitted for gold grain counts, 14 contained gold grains. The highest gold grain count of 48 gold grains was found in the sample taken at the same site as the anomalous geochemical sample.

Further work is recommended to follow up the results of the till sampling in an up ice (north-north easterly) direction. More detailed sampling of till up ice from the anomalous samples should be carried out to narrow down the potential source. Soil sampling over a grid covering the up ice area with MMI analysis of samples should also be considered to further target the source of anomalous till samples.

Finally, line cutting and an induced polarization survey over anomalies generated by the above geochemical surveys are recommended to determine potential drill targets.

## 2. Introduction

This report is intended to summarize recent work carried out on the Borden Lake Extension project of Nikos for assessment purposes. Work consisted of till sampling, and was carried out during two field visits during August and November 2015. The author conducted the till sampling.

Other than work performed by Nikos exploration during the last two years, no previous recorded exploration activity is known on the property, which was staked following the discovery of the Borden Lake gold deposit in 2010. Most of the available information is in the form of government maps and reports.

## 3. Property Access, Description, Location and Title

The property is located approximately 18 kilometres east of Chapleau, Ontario in the Timmins Mining District (Figure 1). Access is via paved Highway 101 that runs between Chapleau and Timmins followed by a gravel logging road that runs approximately north-south through the western part of the property.

It consists of 20 unpatented claims covering an area of 3,584 hectares (Table 1).

Table 1. List of claims making up the Borden Lake Extension property

Claim No.	Claim Units	Area (ha)
4260528	9	144
4260529	16	256
4260530	9	144
4259806	12	192
4259807	8	128
4259808	12	192
4259809	4	64
4259810	15	240
4256761	15	240
4275410	15	240
4275422	15	240
4275423	15	240
4275424	6	96
4275425	6	96
4270214	9	144
4274028	12	192
4274029	14	224
4274030	9	144
4274031	15	240
4274032	8	128
Total	224	3584

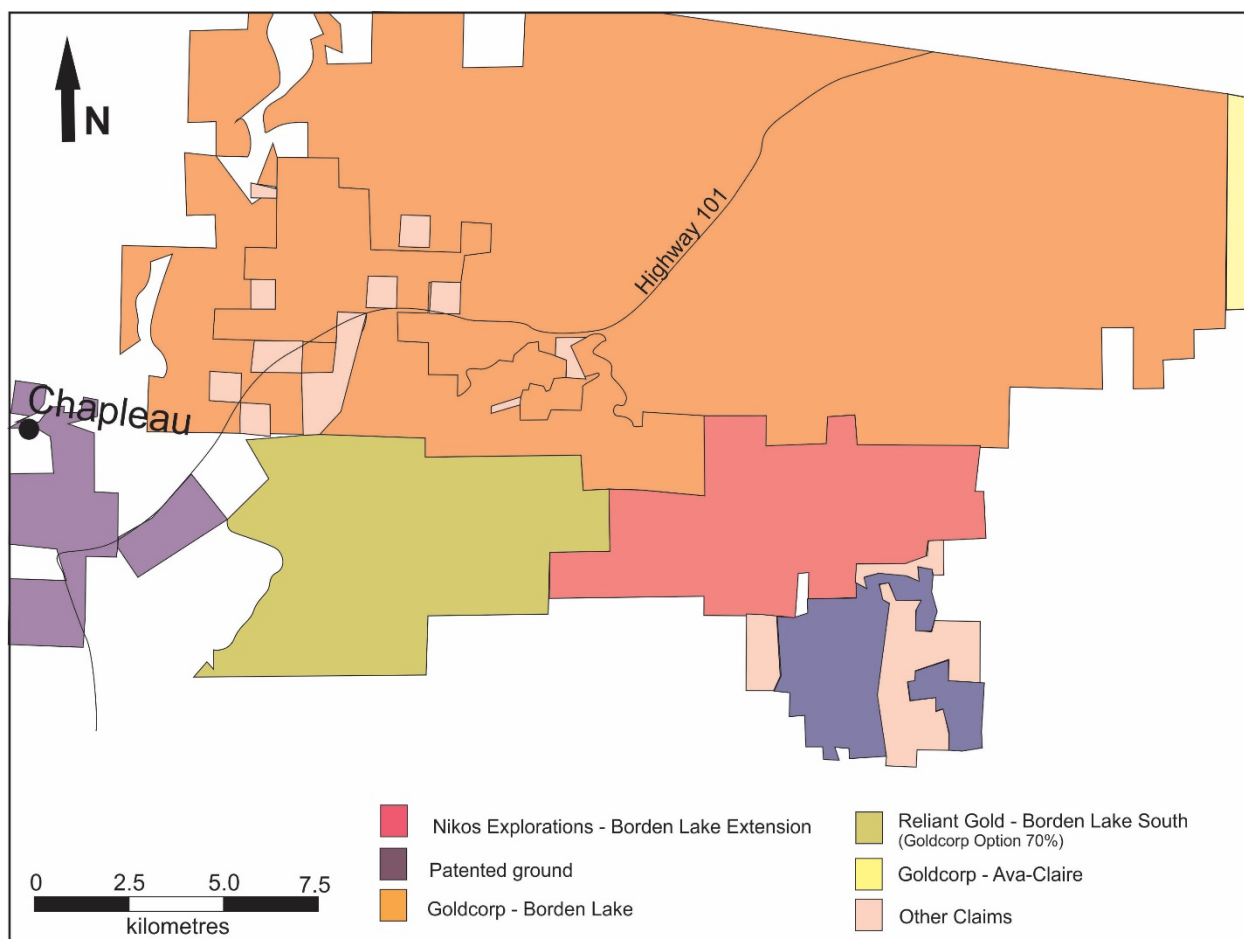


Figure 1. Location of the Borden Lake Extension Property

Nikos has signed two option agreements to earn 100% in all claims comprising the property. The first agreement, signed in December, 2012, gives Nikos the right to acquire a 100% interest in claims 4260528 to 4260530 and 4259806 to 4259810 under the following conditions:

Issue a total of 1,000,000 Nikos shares and pay \$100,000 cash to the Vendors as follows:

- 250,000 Nikos Shares and \$3,000 cash on TSX-V acceptance of the agreement (completed)
- 250,000 Nikos shares and \$15,000 cash on or before 14 December, 2013 (renegotiated and completed by a cash payment of \$6,000 and the issuance of 850,000 Shares)
- 250,000 Nikos shares and \$27,000 cash on or before 14 December, 2014 (completed)
- 250,000 Nikos shares and \$55,000 cash on or before 14 December, 2015 (renegotiated and completed).

Incur cumulative exploration expenditures in the amounts and dates as set out below:

- \$40,000 on or before 14 December, 2013 (completed)
- \$100,000 on or before 14 December, 2014 (completed) and
- \$200,000 on or before 14 December, 2015 (renegotiated and completed).

The vendors retain a 2% NSR royalty, half of which may be bought back by Nikos for \$1 million at any time.

The second agreement was signed on May 13, 2014, and Nikos entered into an option agreement to earn a 100% interest in six claims 4275410, 4275422 to 4275425 and 4270214 under the following terms:

On receipt of TSX-V approval: payment of \$6,000 and issuance of 75,000 Shares (completed);  
On or before May 13, 2015: payment of \$15,000 and issuance of 105,000 Shares (completed);  
On or before May 13, 2016: payment of \$24,000 and issuance of 150,000 Shares;  
On or before May 13, 2017: payment of \$36,000 and issuance of 180,000 Shares;

A 2% NSR, half of which may be bought back for \$1,000,000 and

On receipt of a National Instrument 43-101 compliant report showing an indicated resource of at least 1 million ounces of gold a payment of \$600,000.

## **4. Geological Setting and Mineralization**

### **4.1 Regional Geology**

The property is located in the Archean –aged Superior Province of the Canadian Shield and covers variably metamorphosed rocks of the Kapuskasing Structural Zone (KSZ). The KSZ is over 300km long and strikes north east, separating rocks of the Abitibi Subprovince to the east from those of the Wawa Subprovince to the west (Figure 2). The KSZ is separated from the Swayze greenstone belt to the east by the Ivanhoe Lake fault zone. Rocks include mafic gneiss and paragneiss, tonalite gneiss and metaconglomerate as well as intrusions of tonalite, anorthosite and diorite (Heather et al. 1995). In addition three alkali intrusives occur in the region (Percival, 1981).

### **4.2 Property Geology**

Published maps of the area covered by the property show it to be underlain predominantly by metasedimentary gneiss, with minor mafic gneiss and tonalitic gneiss (Percival, 1981). The Lackner Alkalic complex occurs immediately south of the property (Figure 3). The Borden Lake Belt occurs to the northwest and runs for approximately 35km east-west. It is primarily comprised of metasedimentary, including a metaconglomerate, and metavolcanic rocks (Heather et al., 1995).

### **4.3 Surficial Geology**

Recent mapping of the surficial geology and sampling of glacial till was carried out by the Ontario Geological Survey between 2011 and 2014 (Gao, 2011; 2013; Gao et al., 2014). Prior to this work, sampling of alluvium was undertaken in the Chapleau area as part of Operation Treasure Hunt (Ontario Geological Survey, 2001). Results of this sampling indicated sites of samples that contained gold grains, including two on the Nikos Borden Lake Extension property and two down ice from the property (Figure 4). The most recent sampling shows gold grains on the Borden Lake property of Goldcorp Inc. including 2 samples taken immediately down ice of the discovery outcrop that contained 17 and 19 grains of gold (Figure 5; Gao et al., 2014).

### **4.3 Mineralization**

There is currently no known mineralization on the Borden Lake Extension property. However, gold mineralization was discovered in 2010 by Probe Mines Ltd. on the adjacent Borden Lake Property held

by Goldcorp Inc. Current resources on the property total 4.3 million ounces of gold (Probe Mines Corporate Presentation September 2014). In addition, IAMGOLD’s Cote Lake and Jerome deposits, located along the Ridout shear zone in the Swayze Greenstone Belt to the east, contain 8.2 and 1.3 million ounces of gold, respectively (see Figure 2).

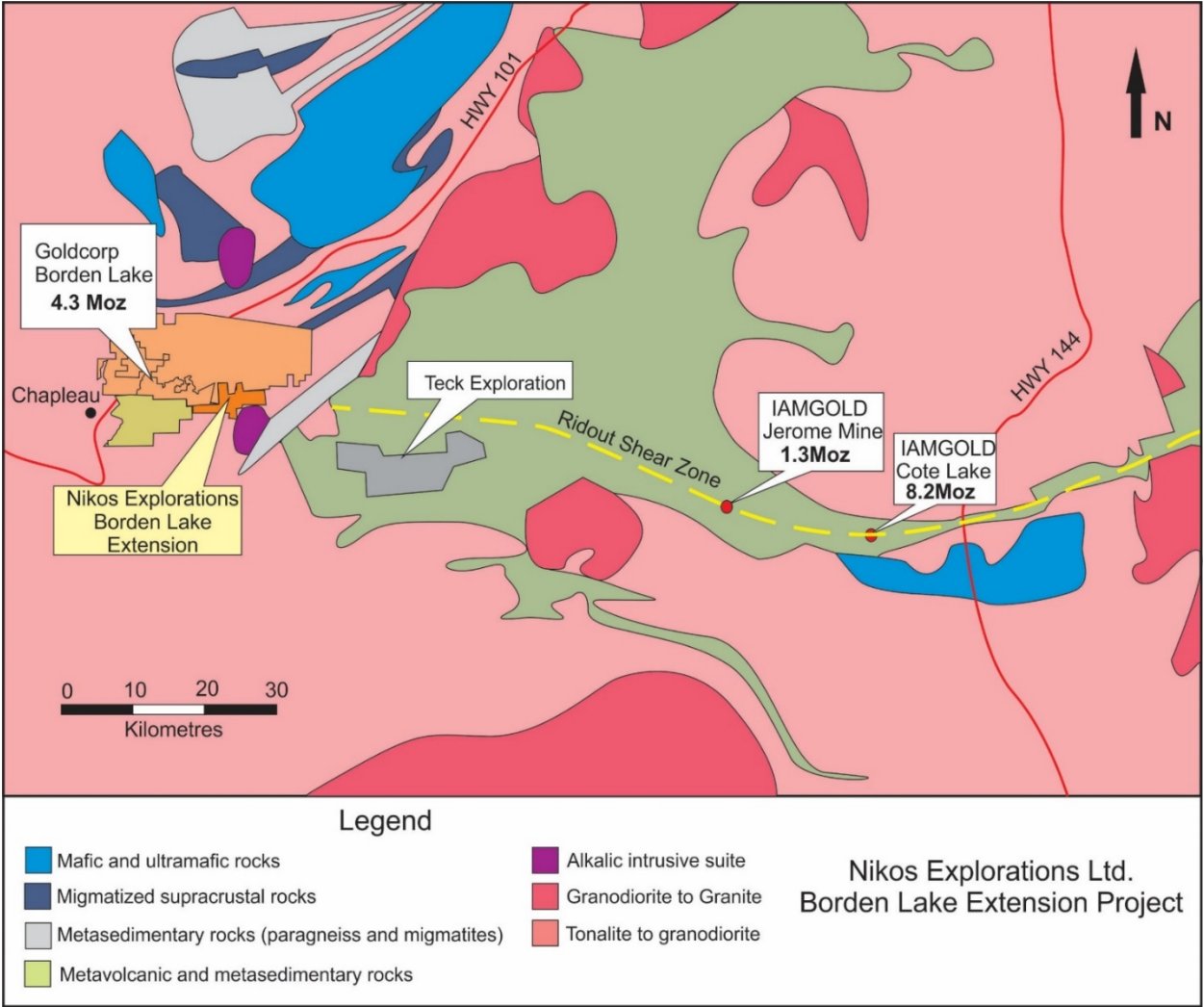


Figure 2. Regional geology of the area around the Borden Lake Extension project.



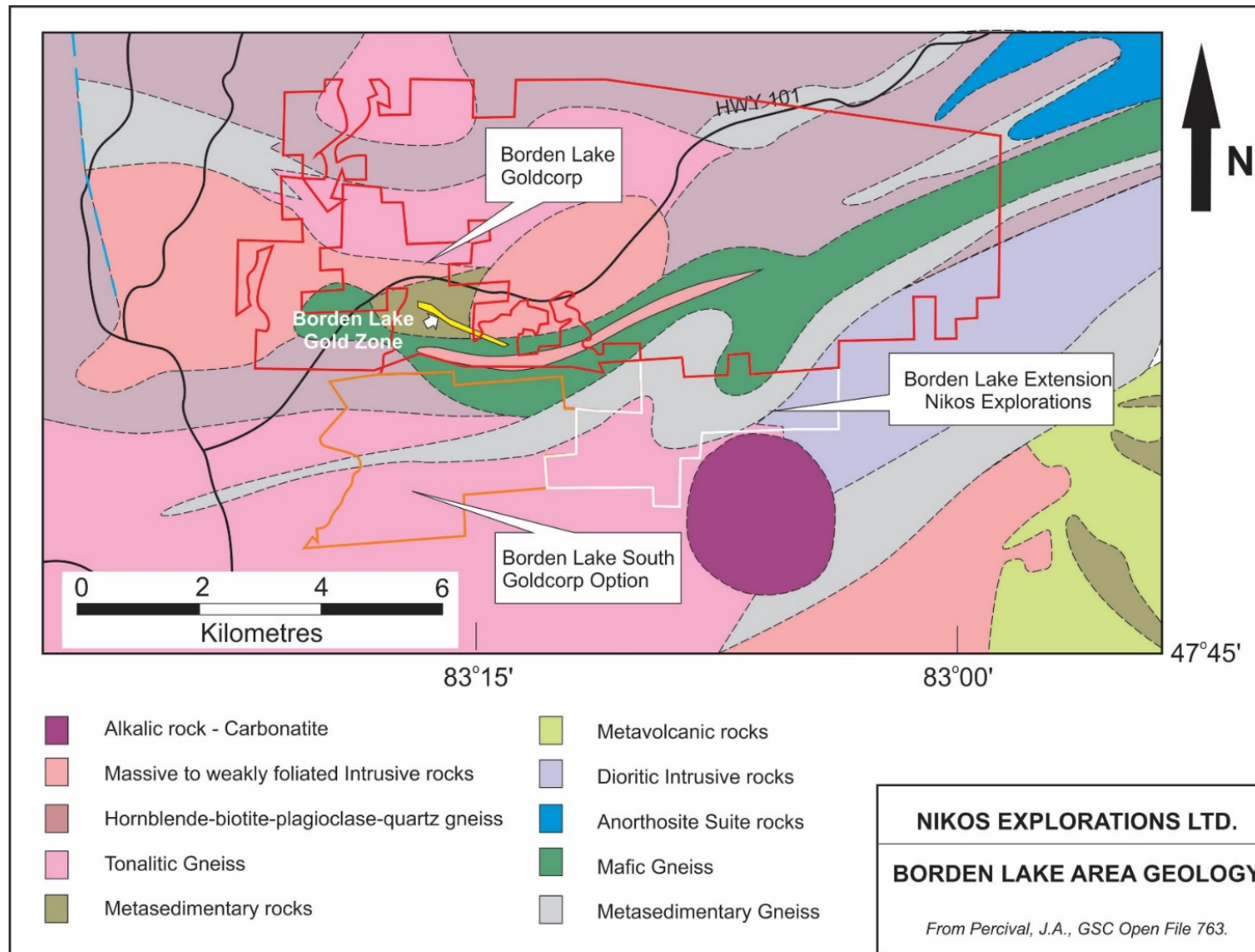


Figure 3 Detailed Geology of the Borden Lake extension area (from Percival, 1981).

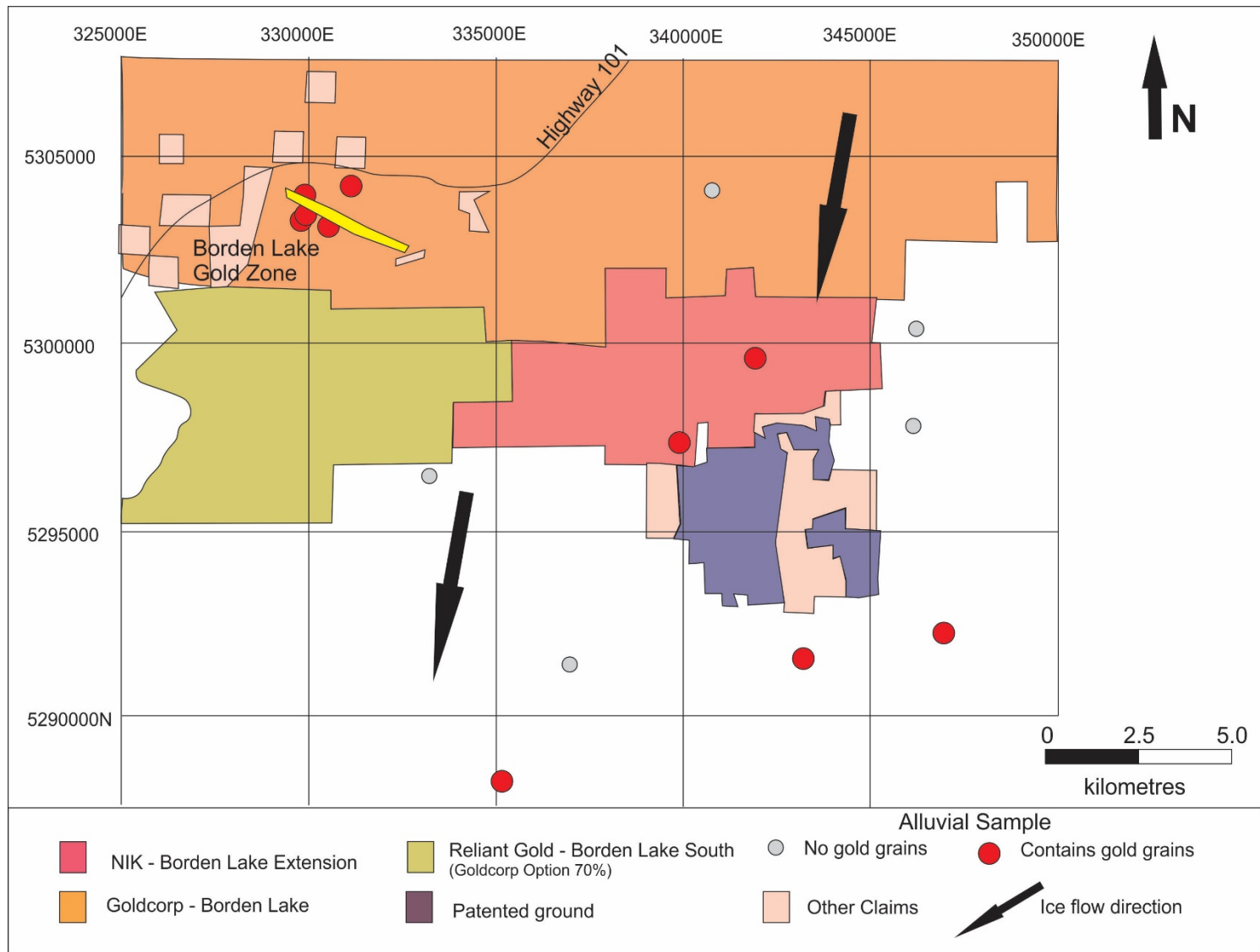


Figure 4. Compilation of results of alluvial sampling showing samples containing gold grains in the vicinity of the Borden Lake Extension project (Source: Ontario Geological Survey, 2001; Gao et al., 2014).

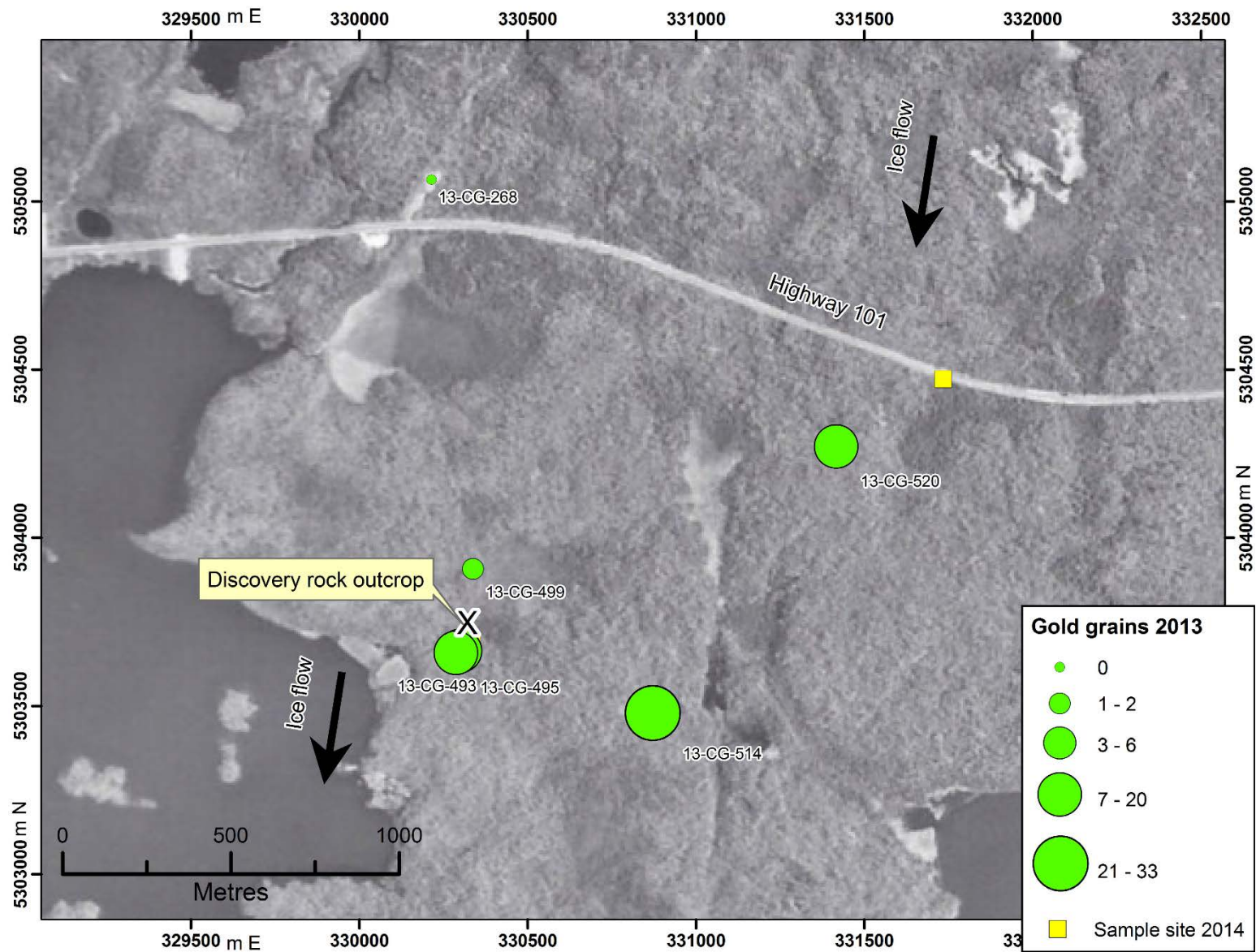


Figure 5. Till samples containing gold grains on the Borden Lake Property of Goldcorp Inc. (from Gao et al., 2014).

## 5. Exploration

### Till Sampling

Till sampling was carried out from the north claim boundary to the south boundary over a north-south distance of approximately 2.5 kilometres. Initially 20 sites were sampled along the 2.5km traverse and out to the east and west at a spacing of approximately 250 metres. At each site two samples were taken, a small (approximately 1 lb) sample for multi-element analysis and a larger (12 to 30lb) sample for shaking table concentration and gold grain count.

The till samples covered an area of complex magnetics that is believed to be in the area of a fold nose as well as several VLF-EM anomalies subparallel to the magnetic lineaments and to the trend of the Borden Lake Gold Zone (Moss, 2015).

A total of 20 samples were sent to actlabs for multi-element analysis for gold and 49 other elements by instrumental neutron activation analysis (INAA) and inductively coupled plasma-optical emission spectroscopy (ICP-OES).

Most gold values are below the detection limit of 2ppb Au, although one sample shows a value of 54ppb. (see Map 1). This anomalous sample is located immediately down ice of three VLF conductors. (Figure 6).

A further eight samples were taken around the anomalous sample at closer spacing of 70 to 130 metres, depending on presence of till. Results of analysis for these samples had not been received at the time of writing.

The bulk samples were submitted to Overburden Drilling Management to determine if the samples contained visible gold grains and also to prepare a heavy mineral concentrate for gold analysis. Of the 16 samples submitted for gold grain counts, 14 contained gold grains. The highest gold grain count was found in the sample taken at the same site as the anomalous geochemical sample which contained 48 gold grains (see Appendix 2).

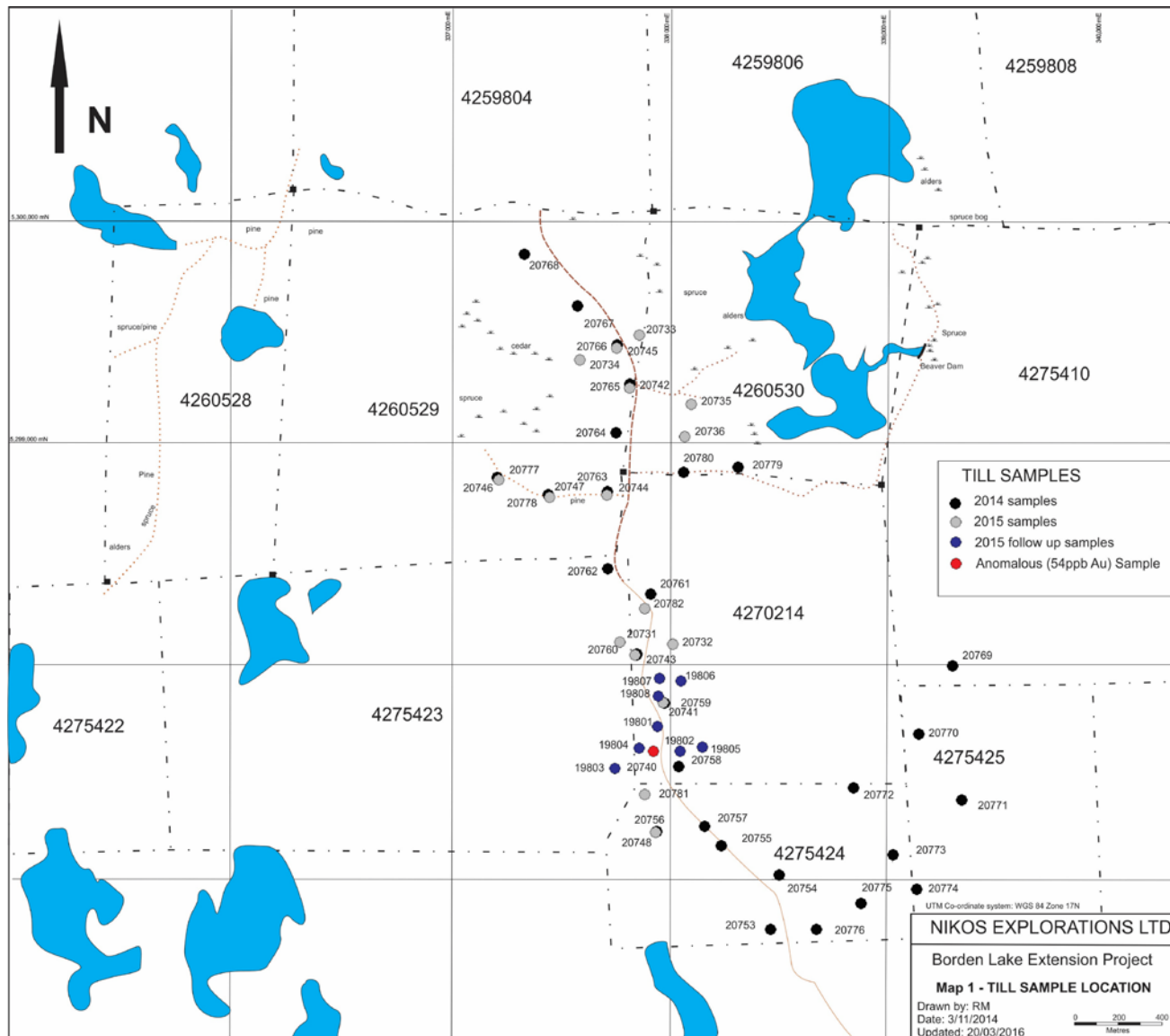


Figure 6. Till sample location showing 2014 and 2015 samples  
(Note: Analyses of 2015 follow up samples had not been received at the time of writing).



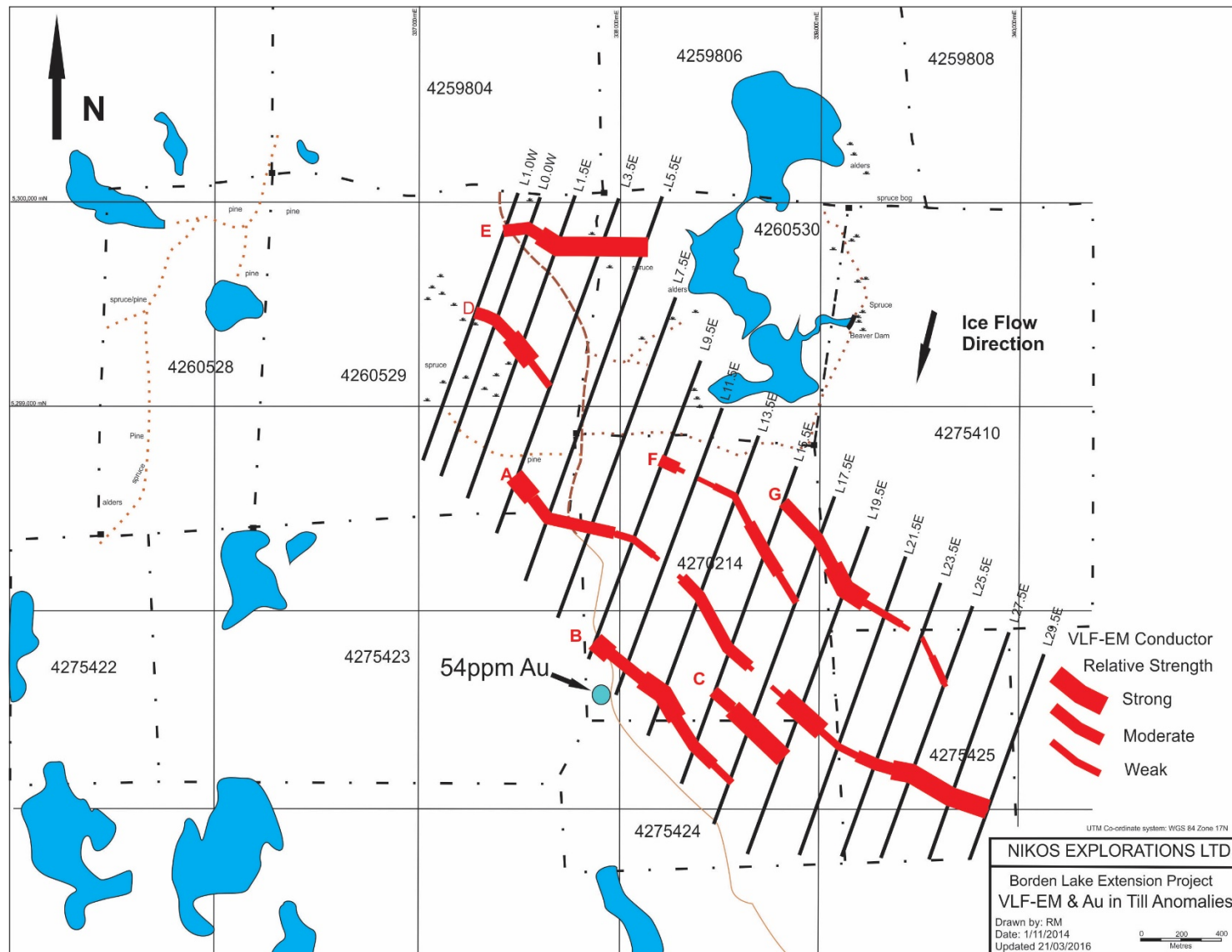


Figure 7. Location of anomalous till sample down ice of VLF Conductors.

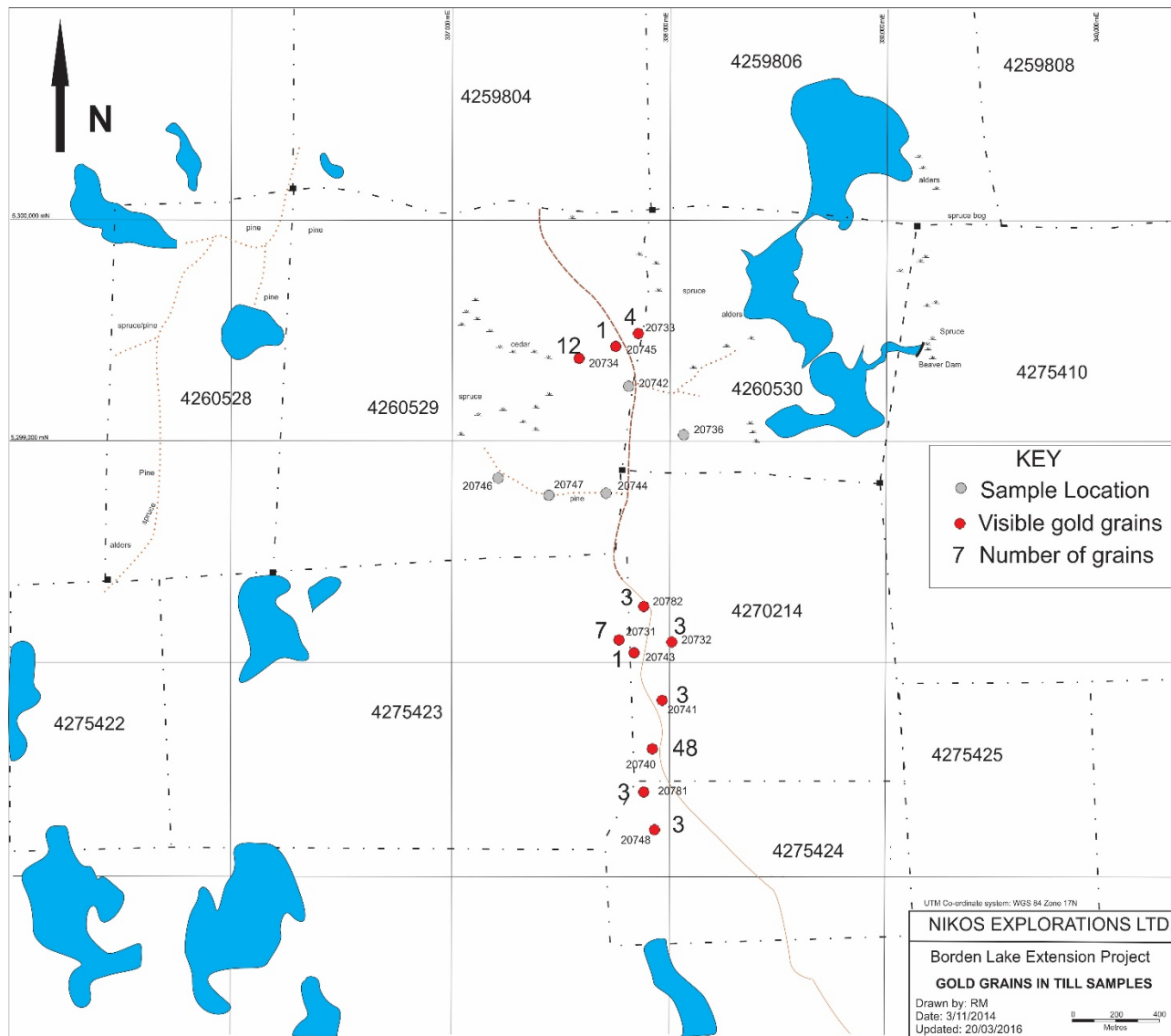


Figure 8. Map of till samples showing number of visible gold grains.

## 6. Conclusions and Recommendations

Exploration on the Borden Lake Extension project over the last three years has focussed on an area in the western portion of the claims where magnetic and topographic lineaments indicate the potential for structural trends that may have potential to host gold mineralization. These trends occur along strike to the southeast of the Borden Lake gold zone.

Lack of significant outcrop on the property has resulted in attempts to find techniques that can be cost effectively used for reconnaissance scale exploration. VLF-EM, MMI soil and SGH previously resulted in anomalies in the area. Initial results of a VLF-EM survey indicated seven conductors of varying strength, the longest of which stretches over 2.6km in a northwest-southeast direction. A later infill survey confirmed the presence of conductors in the northwestern most portion of the property. MMI and SGH analysis of soil samples have also resulted in anomalies in the area.

The current till sampling has resulted in a weak (54ppb Au) anomaly immediately down ice of three VLF conductors.

Further work is recommended for the property to follow up on the results of the till sampling to date. Prospecting should be undertaken in the vicinity of, and up ice of, the anomalous till samples to attempt to find the cause, although due to the scarce outcrop it is likely that further geophysical and/or geochemical techniques will be necessary. More detailed sampling of till up ice from the anomalous samples should be carried out to narrow down the potential source. Soil sampling over a grid covering the up ice area with MMI Analysis of samples should also be considered to further target the source of anomalous till samples.

Finally, line cutting and an induced polarization survey over anomalies generated by the above geochemical surveys are recommended to determine potential drill targets.



## 7. References

- Gao, C., 2011, Surficial geology mapping and till sampling in the Chapleau area, northern Ontario; *in* Summary of Field Work and Other Activities 2011, Ontario Geological Survey, Open File Report 6270, p.20-1 to 20-5.
- Gao, C., 2013, Surficial geology mapping and till sampling in the Chapleau area, northern Ontario: Second phase; *in* Summary of Field Work and Other Activities 2013, Ontario Geological Survey, Open File Report 6290, p.27-1 to 27-5.
- Gao, C., Wywrot, A., Zhu, D., 2014, Surficial geology mapping and till sampling in the Chapleau area, northern Ontario: A progress report, *in* Summary of Field Work and Other Activities 2014, Ontario Geological Survey, Open File Report 6300, p.24-1 to 24-7.
- Heather, K.B., Percival, J.A., Moser, D., Bleeker, W. 1995, Tectonics and metallogeny of Archaean crust in the Abitibi-Kapuskasing-Wawa region, Geological Survey of Canada Open File 3141.
- Moss, R., 2015, Report on infill VLF-EM survey, Nikos Explorations Ltd. Borden Lake Extension Project, Chapleau, Ontario, Unpubl. Assessment File Report, 21p.
- Moss, R., 2014, Report on Exploration Activities Nikos Explorations Ltd. Borden Lake Extension Project, Chapleau, Ontario, Unpubl. Assessment File Report, 36p.
- Ontario Geological Survey 2001. Results of modern alluvium sampling, Chapleau area, northeastern Ontario: Operation Treasure Hunt—Kapuskasing Structural Zone; Ontario Geological Survey, Open File Report 6063, 164p.
- Percival, J.A., 1981. Preliminary Map, Geology of the Kapuskasing Structural Zone in the Chapleau-Foleyet Area, Ontario, Geological Survey of Canada, Open File 763.
- Sutherland, D., 2013, 3D – SGH A spatial temporal geochemical hydrocarbon interpretation, Nikos Exploration Ltd., Borden Lake Extension Project. Internal report, 66p.

**Appendix 1**  
Results of Gold Analyses  
Till Samples

Sample #	Easting	Northing	Au (ppb)
20731	337765	5298088	< 2
20732	338006	5298076	< 2
20733	337855	5299500	< 2
20734	337579	5299383	< 2
20735	338094	5299181	< 2
20736	338061	5299030	< 2
20737	329584	5295387	< 2
20738	336756	5288300	< 2
20739	339992	5291109	< 2
20740	337920	5297585	54
20741	337964	5297808	< 2
20742	337811	5299256	< 2
20743	337833	5298029	< 2
20744	337703	5298762	< 2
20745	337748	5299439	< 2
20746	337207	5298832	< 2
20747	337439	5298755	< 2
20748	337931	5297212	< 2
20781	337881	5297388	< 2
20782	337880	5298242	< 2
19801	337943	5297699	NR
19802	338045	5297585	NR
19803	337748	5297504	NR
19804	337857	5297597	NR
19805	338147	5297602	NR
19806	338048	5297904	NR
19807	337951	5297918	NR
19808	337942	5297837	NR

Abbreviation: NR - Results outstanding

## **Appendix 2**

Gold Grain counts

Till Samples

Sample Number	Number of Visible Gold Grains			
	Total	Reshaped	Modified	Pristine
20731	7	4	2	1
20732	3	2	0	1
20733	4	4	0	0
20734	12	9	2	1
20736	0	0	0	0
20740	48	45	3	0
20741	3	3	0	0
20742	3	2	1	0
20743	1	1	0	0
20744	0	0	0	0
20745	1	1	0	0
20746	0	0	0	0
20747	0	0	0	0
20748	3	1	1	1
20781	3	3	0	0
20782	3	3	0	0

OVERBURDEN DRILLING MANAGEMENT LIMITED  
107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1  
TELEPHONE: (613) 226-1771  
FAX NO.: (613) 226-8753  
EMAIL: odm@storm.ca

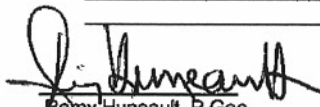
DATA TRANSMITTAL REPORT

DATE: 21-Mar-16  
ATTENTION: Mr. Moss  
CLIENT: Nikos Explorations Ltd.  
Commerce Place  
Suite 1950, 400 Burrard Street  
Vancouver, BC  
V6C 3A6  
E-MAIL: rogermoss@mossexploration.com  
NO. OF PAGES: 5  
PROJECT: Borden Lake Extension  
FILE NAME: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016  
SAMPLE NUMBERS: 20731 to 20734, 20736 to 20748 and 20781 and 20782  
BATCH NUMBER: 7142  
TOTAL SAMPLES: 19  
THESE SAMPLES WERE PROCESSED FOR: GOLD GRAIN COUNT  
HMC

SPECIFICATIONS:

1. Submitted by client:  $\pm 2.4$  to 14.9 kg till and sand/gravel samples.
2. Single  $\pm 500$  g archival splits taken.
3. All samples panned for gold, PGMs and fine grained metallic indicator minerals.
4. Heavy liquid separation specific gravity: 3.3.

REMARKS:

  
Remy Huneault, P.Geo.  
President

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
RAW SAMPLE DESCRIPTIONS**

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016

Total Number of Samples in this Report = 19

Batch Number: 7142

Sample Number	Weight (kg wet)					-2.0 mm Table Concentrate Weight (g dry)					Sample Description												CLASS
						Total	Heavy Liquid Separation (S.G. 3.3)				S i z e	Clasts (> 2.0 mm)				Matrix (<2.0 mm)				Colour			
	Lights	HMC			Percentage				Distribution														
			Total	Non Mag	Mag		W/S	GR	LS	OT		S/U	SD	ST	CY	O R G	SD	CY					
20731	11.3	0.5	10.8	2.5	8.3	478.3	259.7	218.6	182.4	36.2	P	10	90	0	0	U	+	Y	-	Y	DOC	DOC	TILL
20732	6.4	0.5	5.9	1.6	4.3	215.2	180.6	34.6	25.6	9.0	P	5	95	0	0	U	+	Y	-	Y	DOC	DOC	TILL
20733	9.1	0.5	8.6	1.8	6.8	298.4	217.4	81.0	64.3	16.7	P	10	90	0	0	U	+	Y	-	Y	DOC	DOC	TILL
20734	9.7	0.5	9.2	2.0	7.2	362.5	248.6	113.9	92.8	21.1	P	10	90	0	0	U	+	Y	-	Y	OC	OC	TILL
20736	14.9	0.5	14.4	5.9	8.5	482.0	392.1	89.9	76.5	13.4	P	10	90	0	0	S	MC	N	N	LOC	NA	SAND + GRAVEL	
20737	12.7	0.5	12.2	1.8	10.4	516.1	373.9	142.2	124.4	17.8	P	20	80	0	0	U	+	Y	-	N	LOC	LOC	TILL
20738	6.7	0.5	6.2	0.9	5.3	273.9	223.8	50.1	38.8	11.3	P	10	90	0	0	U	Y	+	-	Y	OC	OC	TILL
20739	9.8	0.5	9.3	2.4	6.9	420.6	318.7	101.9	69.6	32.3	P	10	90	0	0	U	+	Y	-	Y	OC	OC	TILL
20740	8.0	0.5	7.5	1.0	6.5	323.8	220.7	103.1	79.8	23.3	P	5	95	0	0	U	+	Y	-	+	DOC	DOC	TILL + SOIL
20741	7.7	0.5	7.2	1.2	6.0	346.7	228.9	117.8	53.9	63.9	P	Tr	100	0	0	U	+	Y	-	Y	LOC	LOC	TILL
20742	9.6	0.5	9.1	1.7	7.4	526.7	383.6	143.1	123.1	20.0	P	10	90	0	0	U	+	-	N	N	OC	NA	TILL
20743	2.4	0.5	1.9	0.4	1.5	168.1	153.3	14.8	11.3	3.5	P	Tr	100	0	0	U	+	-	N	N	OC	NA	TILL
20744	8.2	0.5	7.7	0.9	6.8	414.1	336.2	77.9	68.0	9.9	P	10	90	0	0	S	MC	N	N	N	DOC	NA	SAND + GRAVEL
20745	7.4	0.5	6.9	0.1	6.8	243.9	155.0	88.9	78.5	10.4	P	10	90	0	0	S	FM	-	N	N	LOC	NA	SAND
20746	8.2	0.5	7.7	1.6	6.1	277.4	237.4	40.0	32.3	7.7	P	20	80	0	0	S	MC	N	N	N	OC	NA	SAND + GRAVEL
20747	9.6	0.5	9.1	0.8	8.3	362.1	264.0	98.1	80.4	17.7	P	20	80	0	0	S	MC	-	N	N	LOC	NA	SAND + GRAVEL
20748	6.5	0.5	6.0	2.0	4.0	269.3	233.3	36.0	22.7	13.3	P	10	90	0	0	S	MC	-	N	N	OC	NA	SAND + GRAVEL
20781	10.4	0.5	9.9	3.0	6.9	321.2	272.9	48.3	33.8	14.5	P	Tr	100	0	0	U	+	Y	-	Y	OC	OC	TILL
20782	9.7	0.5	9.2	1.9	7.3	339.3	262.4	76.9	59.7	17.2	P	10	90	0	0	U	+	Y	-	Y	DOC	DOC	TILL

**OVERBURDEN DRILLING MANAGEMENT LIMITED**  
**GOLD GRAIN SUMMARY**

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016

Total Number of Samples in this Report = 19

Batch Number: 7142

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
					*				
20731	7	4	2	1	33.2	33	32	<1	1
20732	3	2	0	1	17.2	10	10	0	<1
20733	4	4	0	0	27.2	33	33	0	0
20734	12	9	2	1	28.8	17	16	<1	1
20736	0	0	0	0	34.0	0	0	0	0
20737	3	3	0	0	41.6	26	26	0	0
20738	4	4	0	0	21.2	30	30	0	0
20739	8	7	1	0	27.6	17	17	<1	0
20740	48	45	3	0	26.0	465	447	17	0
20741	3	3	0	0	24.0	9	9	0	0
20742	3	2	1	0	29.6	9	9	<1	0
20743	1	1	0	0	6.0	32	32	0	0
20744	0	0	0	0	27.2	0	0	0	0
20745	1	1	0	0	27.2	1	1	0	0
20746	0	0	0	0	24.4	0	0	0	0
20747	0	0	0	0	33.2	0	0	0	0
20748	3	1	1	1	16.0	2	<1	<1	2
20781	3	3	0	0	27.6	5	5	0	0
20782	3	3	0	0	29.2	1	1	0	0

\*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.



**OVERBURDEN DRILLING MANAGEMENT LIMITED  
DETAILED GOLD GRAIN DATA**

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016

Total Number of Samples in this Report = 19

Batch Number: 7142

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Indicator Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
20731	Yes	3 C	15	15	1	2		3		<1	No sulphides.
		5 C	25	25			1	1		1	
		8 C	25	50	1			1		2	
		13 C	50	75	1			1		11	
		15 C	75	75	1			1		19	
								7	33.2	33	
20732	Yes	3 C	15	15				1		<1	5 grains pyrite (25-50µm). 1 SEM check: 1 galena candidate 8 = 1 galena (25µm).
		5 C	25	25	1			1		1	
		10 C	25	75	1			1		8	
								3	17.2	10	
20733	Yes	3 C	15	15	1			1		<1	1 grain pyrite (25µm). 3 SEM checks: 2 galena candidates 7 = 1 galena and 1 braggite (25µm).
		8 C	25	50	1			1		3	
		10 C	50	50	1			1		7	
		15 C	75	75	1			1		24	
								4	27.2	33	
20734	Yes	3 C	15	15	4	2		6		1 SEM checks: 1galena candidate = 1	2 galena and 1 braggite candidate = 1 8 braggite (25µm).
		5 C	25	25	1		1	2		2	
		8 C	25	50	3			3		8	
		10 C	50	50	1			1		7	
								12	28.8	17	
20736	Yes	NO VISIBLE GOLD									2 grains pyrite (25-50µm).
20737	Yes	5 C	25	25	1			1		1	2 SEM check: 1 braggite versus pyrite candidate = 1 braggite (15µm)
		8 C	25	50	1			1		2	
		18 C	75	100	1			1		24	
								3	41.6	26	
20738	Yes	5 C	25	25	3			3		3	No sulphides.
		15 C	50	100	1			1		27	
								4	21.2	30	
20739	Yes	3 C	15	15	1	1		2		<1	No sulphides.
		5 C	25	25	2			2		2	
		8 C	25	50	3			3		8	
		10 C	50	50	1			1		7	
								8	27.6	17	
20740	Yes	3 C	15	15	4			4		1	No sulphides.
		5 C	25	25	12	1		13		12	
		8 C	25	50	8	1		9		25	
		10 C	25	75	1			1		6	
		10 C	50	50	9			9		67	
		13 C	50	75	7	1		8		110	
		15 C	75	75	1			1		25	
		20 C	75	125	1			1		54	
		20 C	100	100	1			1		58	
		25 M	100	150	1			1		108	
								48	26.0	465	
20741	Yes	3 C	15	15	1			1		<1	No sulphides.
		5 C	25	25	1			1		1	
		10 C	50	50	1			1		8	
		15 C	50	100				0		0	
								3	24.0	9	

\*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

## OVERBURDEN DRILLING MANAGEMENT LIMITED

## DETAILED GOLD GRAIN DATA

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016

Total Number of Samples in this Report = 19

Batch Number: 7142

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Indicator Minerals in Pan Concentrate
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
20742	Yes	3 C	15	15			1	1		<1	No sulphides.
		8 C	25	50	1			1		2	
		10 C	50	50	1			1		6	
								3	29.6	9	
20743	Yes	10 C	50	50	1			1		32	No sulphides.
								1	6.0	32	
20744	Yes	NO VISIBLE GOLD									4 grains pyrite (25-50µm.).
20745	Yes	5 C	25	25	1			1		1	1 grain pyrite (25µm).
								1	27.2	1	
20746	Yes	NO VISIBLE GOLD									4 grains pyrite (25µm).
20747	Yes	NO VISIBLE GOLD									SEM checks: 2 PGM candidates = 1 pyrite and 1 native silver (50µm).
20748	Yes	3 C	15	15	1		1	2		1	1 grain pyrite (25µm).
		5 C	25	25				1		2	
								3	16.0	2	
20781	Yes	3 C	15	15	1			1		<1	No sulphides.
		8 C	25	50	2			2		5	
								3	27.6	5	
20782	Yes	3 C	15	15	2			2		<1	No sulphides. 1 SEM check: 1 solder versus 1 electrum candidate = 1 Sn-solder (25µm; contamination).
		5 C	25	25	1			1		1	
								3	29.2	1	

\*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

**OVERBURDEN DRILLING MANAGEMENT LIMITED  
PLATINUM GROUP MINERALS SUMMARY**

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016

Total Number of Samples in this Report = 19

Batch Number: 7142

Sample Number	Observed PGMs.		TOTAL GRAINS
	Mineral	Number of Grains	
20731	None observed	0	0
20732	None observed	0	0
20733	Braggite	1	1
20734	Braggite	1	1
20736	None observed	0	0
20737	Braggite	1	1
20738	None observed	0	0
20739	None observed	0	0
20740	None observed	0	0
20741	None observed	0	0
20742	None observed	0	0
20743	None observed	0	0
20744	None observed	0	0
20745	None observed	0	0
20746	None observed	0	0
20747	None observed	0	0
20748	None observed	0	0
20781	None observed	0	0
20782	None observed	0	0

\* All samples are oxidized; therefore only native PGE minerals and the most resistant PGE arsenide and antimonide grains (no PGE sulphides or tellurides) are likely to be preserved.

## OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY ABBREVIATIONS

### SEDIMENT LOG

**Largest Clasts Present:**

G: Granules  
P: Pebbles  
C: Cobbles

**Clast Composition:**

V/S: Volcanics and/or sediments  
GR: Granitics  
LS: Limestone, carbonates  
OT: Other Lithologies (refer to footnotes)  
TR: Only trace present  
NA: Not applicable  
OX: Very oxidized, undifferentiated

**Matrix Grain Size Distribution:**

S/U: Sorted or Unsorted  
SD: Sand (F: Fine; M: Medium; C: Coarse)  
ST: Silt  
CY: Clay  
Y: Fraction present  
+: Fraction more abundant than normal  
-: Fraction less abundant than normal  
N: Fraction not present

**Matrix Organics:**

ORG: Y: Organics present  
N: Organics absent in matrix  
+: Matrix is mainly

**Matrix Colour:**

Primary:  
BE: Beige  
BR: Brick Red  
GY: Grey  
GB: Grey-beige  
GN: Green  
GG: Grey-green  
MN: Maroon

**Secondary (soil):**

OC: Ochre  
BN: Brown  
BK: Black

**Secondary Colour Modifier:**

L: Light  
M: Medium  
D: Dark

### GOLD GRAIN LOG

**Thickness:**

VG: Visible gold grains  
M: Actual measured thickness of grain (microns)  
C: Thickness of grain (microns) calculated from measured width and length

PGMs: Platinum Group Minerals

### KIM (kimberlite indicator mineral) LOG

GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope)  
GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces  
DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked s  
IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces

\*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

## OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY ABBREVIATIONS

### SEDIMENT LOG

**Largest Clasts Present:**

G: Granules  
P: Pebbles  
C: Cobbles

**Matrix Organics:**

ORG: Y: Organics prese  
N: Organics abse  
in matrix  
+: Matrix is mainly

**Clast Composition:**

CR: Chromite  
FO: Forsterite

**Matrix Colour:**

### MMSIM (metamorphosed or magmatic massive sulphide indicator mineral) and PCIM (porphyry Cu indicator mineral) LOGS

Adr: Andradite	Cpy: Chalcopyrite	Gth: Goethite	Opx: Orthopyroxene
Ap: Apatite	Cr: Chromite	Ilm: Ilmenite	Py: Pyrite
Ase: Anatase	Fay: Fayalite	Ky: Kyanite	Sil: Sillimanite
Aspy: Arsenopyrite	Gh: Gahnite	Mz: Monazite	Spi: Spinel
Ax: Axinite	Gr: Grossular	Oi: Olivine	Sps: Spessartine

R:\General Administration\Templates for Main Lab\Abbreviations table

## OVERBURDEN DRILLING MANAGEMENT SAMPLE RECEPTION LOG

Filename: 20167142 - Nikos Exploration - Moss - (19-gold-hmc) - March 2016  
Total Number of Samples in this Report = 19

Sample Number	Number of bags per Sample	Security Seal No.	Date Received
20731	1	NA	Feb 22, 2016
20732	1	NA	Feb 22, 2016
20733	1	NA	Feb 22, 2016
20734	1	NA	Feb 22, 2016
20736	1	NA	Feb 22, 2016
20737	1	NA	Feb 22, 2016
20738	1	NA	Feb 22, 2016
20739	1	NA	Feb 22, 2016
20740	1	NA	Feb 22, 2016
20741	1	NA	Feb 22, 2016
20742	1	NA	Feb 22, 2016
20743	1	NA	Feb 22, 2016
20744	1	NA	Feb 22, 2016
20745	1	NA	Feb 22, 2016
20746	1	NA	Feb 22, 2016
20747	1	NA	Feb 22, 2016
20748	1	NA	Feb 22, 2016
20781	1	NA	Feb 22, 2016
20782	1	NA	Feb 22, 2016

\*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.