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REPORT OF GEOLOGICAL AND GEOCHEMICAL WORK  
BUCK LAKE PROPERTY

Lunkie Township

SAULT STE. MARIE AREA ONTARIO  
NTS 41O/04

Prepared by:

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N0B 2J0

December 7, 2017

## **FIGURES**

- Figure 1 – Location of Buck Lake Property
- Figure 2 – Buck Lake Property Claims
- Figure 3 – Previous Work
- Figure 4 – General Geology of the Batchewana Area
- Figure 5 – Soil Sample and Reconnaissance Geology Lines
- Figure 6– Buck lake Property Geology Outcrops examined
- Figure 7 -- Buck Lake Property Geology
- Figure 8 – Rock Sample Locations
- Figure 8A – Rock Sampling Numbers
- Figure 9 – Results of Rock Samples – Copper
- Figure 9A – Results of Rock Sampling - Zinc
- Figure 10 – Soil Sample Locations
- Figure 11 – Soil Sampling Results for Copper
- Figure 12 – Soil Sampling Results for Zinc
- Figure 13 -- Soil Sampling results for Lead

## **TABLES**

- Table 1 – Buck Lake Property Claims Details
- Table 2 -- Rock Sample Locations
- Table 3 – QA/QC Results Duplicate Samples
- Table 4 – Analytical Results for Rocks
- Table 5-- Soil Sample Results
- Table 6 – Anomalous Soil Results
- Table 7-- Anomalous Whole Rock Results for Sample Buck 11

## **Appendices**

- Appendix A – Geologic Descriptions
- Appendix B – Soil Sample Locations
- Appendix C – Lithogeochemical Results
- Appendix D – Lab Certificates
- Appendix E – Field Notes

## LOCATION AND ACCESS

The Buck Lake Property (BLP) lies in Lunkie Township in the Algoma District of Central Ontario approximately 50 kilometers northeast of Sault Ste. Marie and approximately 30 km NE of the village of Searchmont (Figure 1 – Location Map). National Topographic System (NTS) map number 41O/04 covers the area while Ontario Base Maps (OBM) numbered 20 17 2800 52000 and 20 17 2700 53000 provide detailed topographic information on the property.

The northern western boundary of the property lies adjacent to the Whitman Dam Road which leads north from the village of Searchmont and is passible by vehicle.

The property is typified by high linear ridges with a maximum elevation difference of 60 to 70 metres. The topography appears to be controlled by the geological features such as stratigraphy but may indicate control by faults as several steep to vertical cliffs are present. The bush is typical of the Algoma area including mixed deciduous and conifer trees with areas of open forest related to bedrock. There are areas of good bedrock exposure especially along the ridges and overall bedrock exposure appears to be plentiful and that the overburden is mostly shallow except in rare boggy areas.



**Figure 1: Location of Buck Lake Property**

Note location of Sault Ste. Marie in SW corner of map. The property is approximately 50 km distant from there.

## PROPERTY

At the time of the presently reported activity the property was made up of two claims comprising 19 Units totaling 440 ha. The outline of the claims is modified by the presence of restricted land along the Goulais River. Table 1 and Figure 2 provide claims information. The claims are located in Lunkie Township. All work in this report was completed on Claims 4284372 and 4284373.

**Table 1: Claim Details**

<b>Claim Number</b>	<b>Units</b>	<b>Recording Date</b>
4284372	8	July 5, 2017
4284373	11	July 5, 2017



**Figure 2: Claim Information.**

The claims are recorded in the name of JD Exploration Inc. 4149 Watson Road South, Puslinch, Ontario.

## PREVIOUS WORK

A review of the Government of Ontario Mining Assessment Database (Assessment File Research Imaging - ARIS) revealed that although the general area has been the focus of exploration activities these have been mainly concentrated on the Cowie Lake Iron deposit which occurs to the east of the present property in Nahwegezhic and Gaudry Townships. HBOG Mining completed some exploration to the north and northwest of the present property in 1976. The only work reported on the present property was completed by Noranda in 1983. The company completed ground magnetic and HLEM surveys and identified a strong Electromagnetic anomaly (EM) with locally corresponding magnetic signature over a length of approximately 3500 metres (AFRI Report number 41O04SW0032). One drill hole is reported in the government Assessment Files (AFRI Report number 41O04SW00033) which encountered sulphide in breccia and massive sulphide with chalcopyrite and traces of sphalerite.

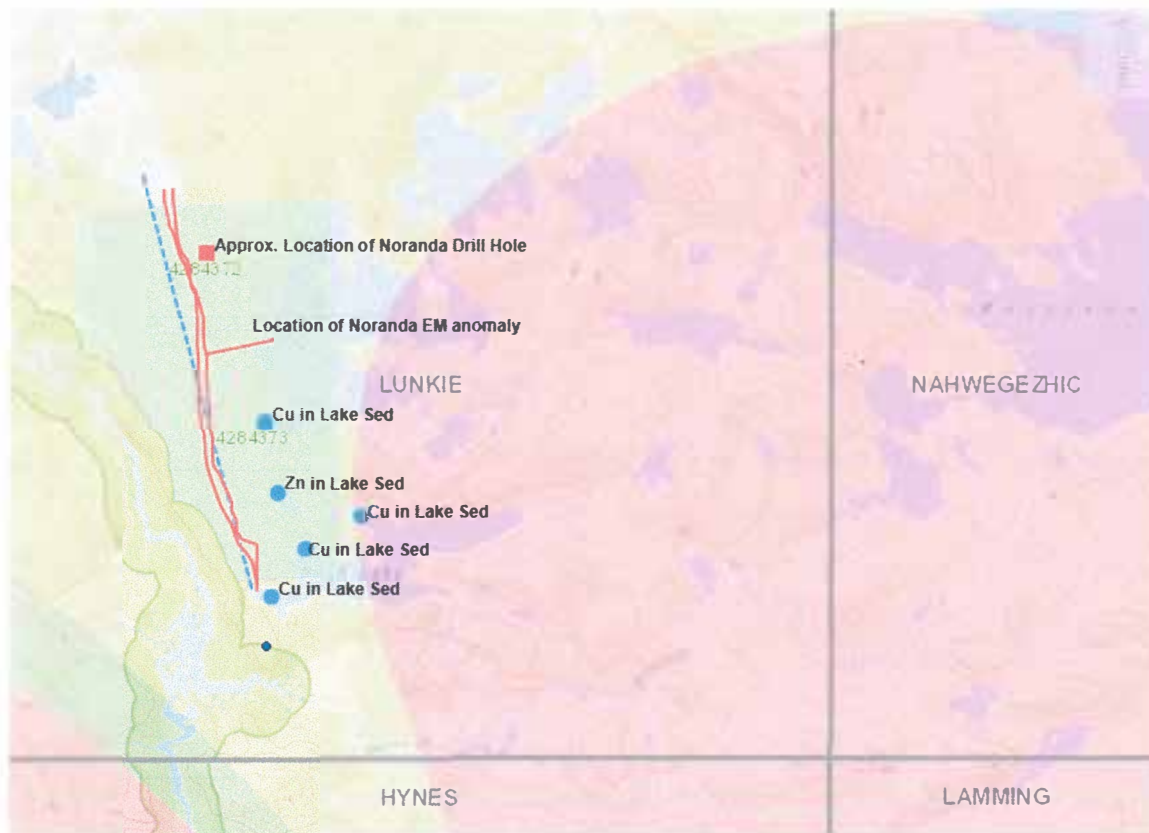
The most comprehensive and most recent geological work on this part of the BGB was carried out by E.C. Grunsky in 1991<sup>1</sup>

The Ontario Geological Survey carried out a comprehensive Lake Sediment Sampling program in the late 1980s which identified copper and zinc anomalies in the area of the Buck Lake property.<sup>2</sup> The following Figure 3 shows the present claims with the approximate location of the EM anomaly detected by Noranda, the location of the drill hole completed by them and the locations of the lake sediment anomalies detected by the OGS Survey.

---

<sup>1</sup> E.C. Grunsky Geology of the Batchawana Area. Ontario Geological Survey Open File Report 5791. 1991

<sup>2</sup> Fortesque at al. OGS Map 80806. Geochemical Survey of the Hanes Lake Area.



**Figure 3: Approximate locations of previous work plotted on existing claims outline.**

## REGIONAL GEOLOGY

The property lies in the Batchawana Greenstone Belt (BGB) within the Abitibi Sub-province of the Canadian Shield. The Lunkie area lies in the Eastern Domain of the BGB in an area of mixed Tholeiitic and Calc-alkalic volcanic rocks and is underlain by what Grunsky (1991) calls the Batchewana Volcanic Domain which is divided into an eastern and western subdomain. The eastern subdomain, in which the Lunkie area lies is composed of a lower tholeiitic sequence and an upper sequence of Calc-alkalic mafic and felsic volcanic units and minor sediments.

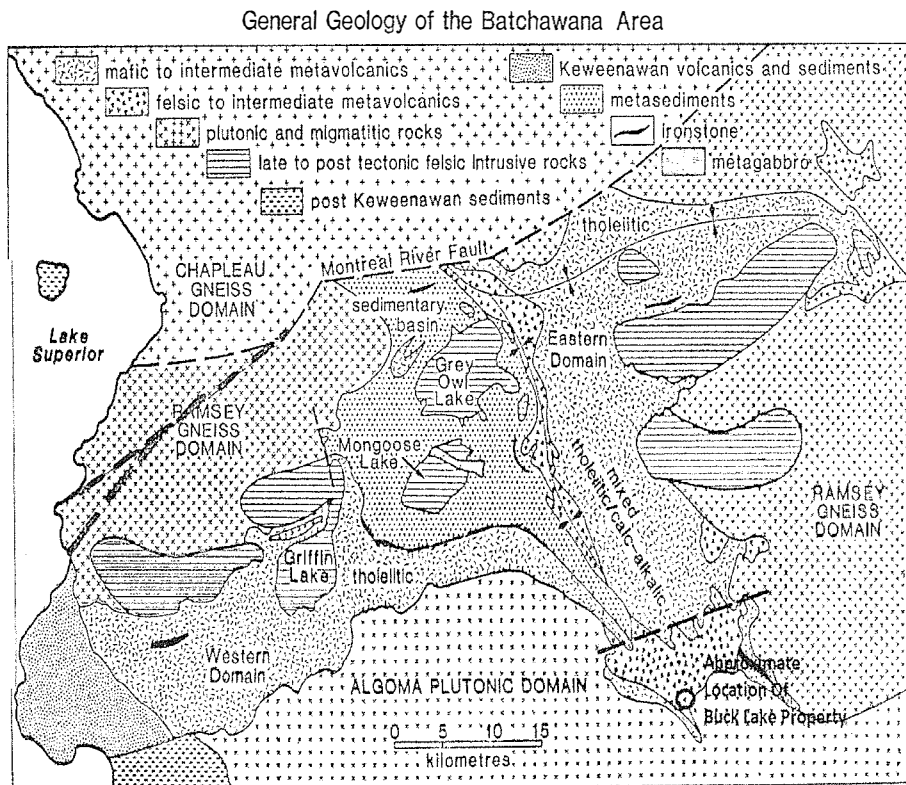


Figure 4: General Geological Map of the Batchawana Area.

### Figure 4: General Geology of the Batchawana Area

All units are disrupted by local granitic intrusives and northwesterly striking diabase dykes.

The geologic units have undergone upper greenschist to lower amphibolite facies metamorphism.

The units in this part of the BGB generally strike northwesterly and dip steeply east to north-northeast. All units in this area face southwest. Lineations in the area plunge to the north-northwest at 60 to 70 degrees. There is no evidence of more than one phase of deformation.

## PROPERTY GEOLOGY

Details of the units encountered during the mapping program are presented below in the Results section but in general the Buck Lake property is underlain by mafic and felsic volcanics which trend NNW and dip steeply to the northeast. Based on preliminary Lithochemical data obtained during this program the mafic and felsic units resemble calc-alkaline rocks described by Grunsky (1991) and are considered to be andesites and dacites respectively.



The more felsic and sedimentary units commonly contain trace amounts of fine grained biotite indicative of the upper greenschist – lower amphibolite facies of metamorphism that has affected them. The grains are often oriented along the schistosity indicating that the peak metamorphism was probably developed during the main deformation event.

## **MINERALIZATION**

During the geological mapping program minor amounts of chalcopyrite mineralization was discovered in the northern part of the property (Samples 106719 and 106720 – see Table 2 and results described below). In the past chalcopyrite and minor sphalerite has been described in the drill hole completed by Noranda in the northern part of the property. Pyrite was seen in trace amounts in several places in various units but not in enough concentration to constitute a significant occurrence.

## **OCTOBER 2017 FIELD WORK PROGRAM**

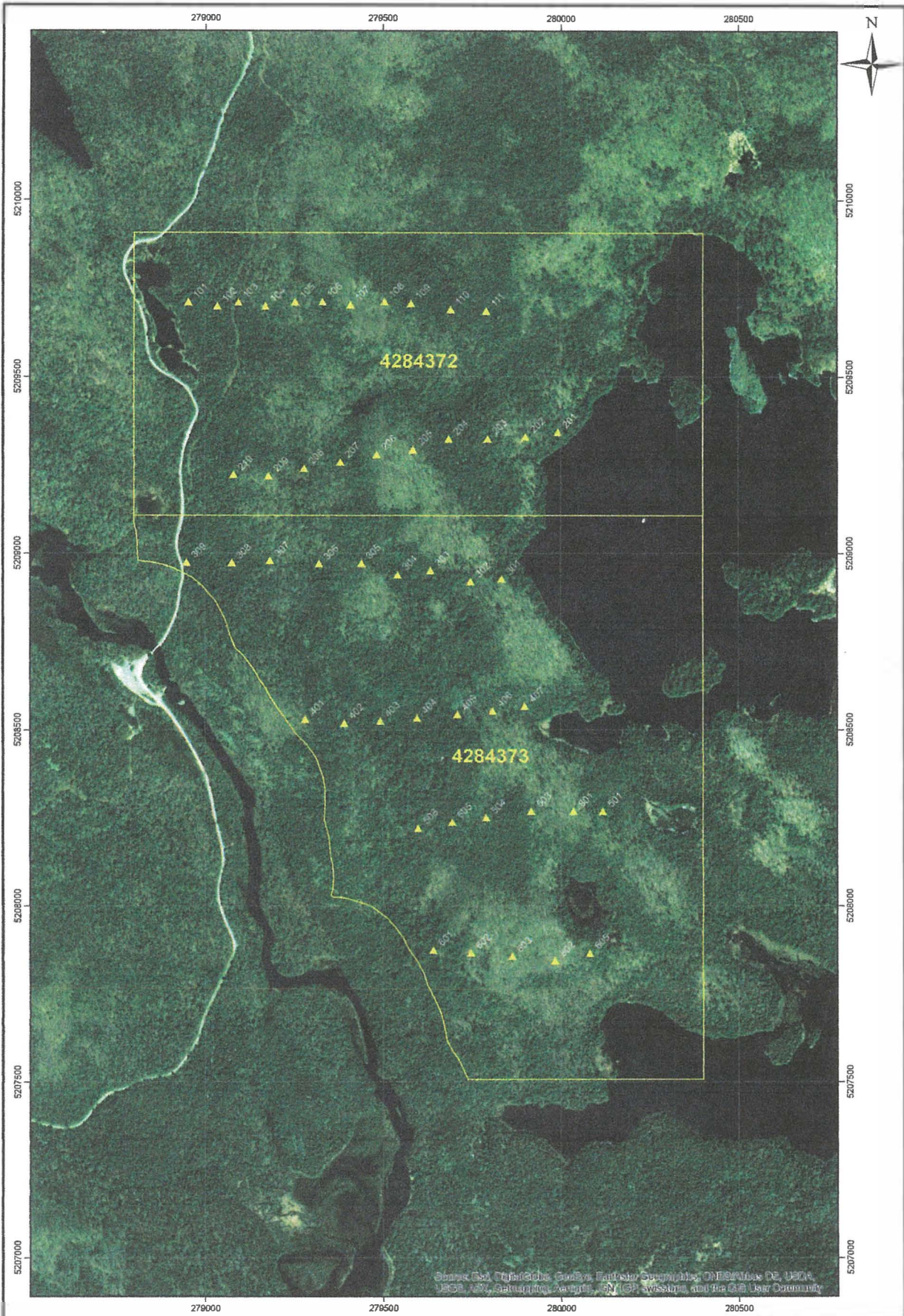
### **Geological Mapping and Soil Sampling**

From October 2nd to 4th, 2017 a program of geological mapping, soil sample collection and prospecting was carried out on the Buck Lake Property which was intended to:

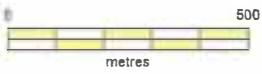
- Investigate the known EM and MAG anomalies and attempt to determine the relationship between the geophysics, geology and mineralization of that zone in more detail.
- Locate mineralization especially at locations related to magnetic or EM anomalies;
- Map bedrock exposures encountered and sample for Lithochemical analysis and assay.
- Collect soil samples for geochemical analysis.

The work included completing six east-west traverse lines across the property controlled by GPS and utilizing UTM coordinates. The line spacing is considered to be “reconnaissance” level (Figure 5). All outcroppings encountered were mapped and if warranted samples were collected for assay. In all 63 rock exposures were identified and 11 samples were collected for Lithochemical analysis to determine the rock type and identify any alteration. In addition, the samples were analyzed for base and precious metals as part of a 36 element scan.

A total of 54 soil samples were obtained. Each sample was collected by excavating a small pit to expose the “B Horizon” of the soil. The sample was placed into a kraft paper bag which was labeled with the sample location. The location was recorded by using a hand-held GPS receiver. The accuracy of the locations were generally +/-3 m which is considered sufficient for a reconnaissance level survey. The samples were spaced nominally 100 m apart along east – west trending lines nominally 400 m apart across the property. Figure 5 shows the location where soil samples were collected along the reconnaissance lines.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNR/SVA/ASAS DE, USDA, USDA, Aero, GeoEye, IGN, CNR, Swisstopo, and GeoEye, Inc. All Rights Reserved.



Coordinate System: NAD 1983 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 5

JD Exploration Inc.	
<b>Soil Sample Locations</b>	
Buck Lake Property Lunkie Township, Ontario	
Scale 1:10,000	NTS: 41K/16
SoilSample02.mxd	Date: 5-Dec-2017



The location and identification of rock exposures is shown on Figure 6 and the location of soil sample identification numbers is shown on Figure 10. Details of the soil sampling including location information are presented in Appendix B.

## RESULTS

### Geological Mapping and Prospecting

The east-west traverses were supplemented by traverses between lines and as a result 63 exposures (some of which are very large and included steep cliffs) were examined. Locations of all exposures examined along with geologic descriptions are presented in Appendix A.

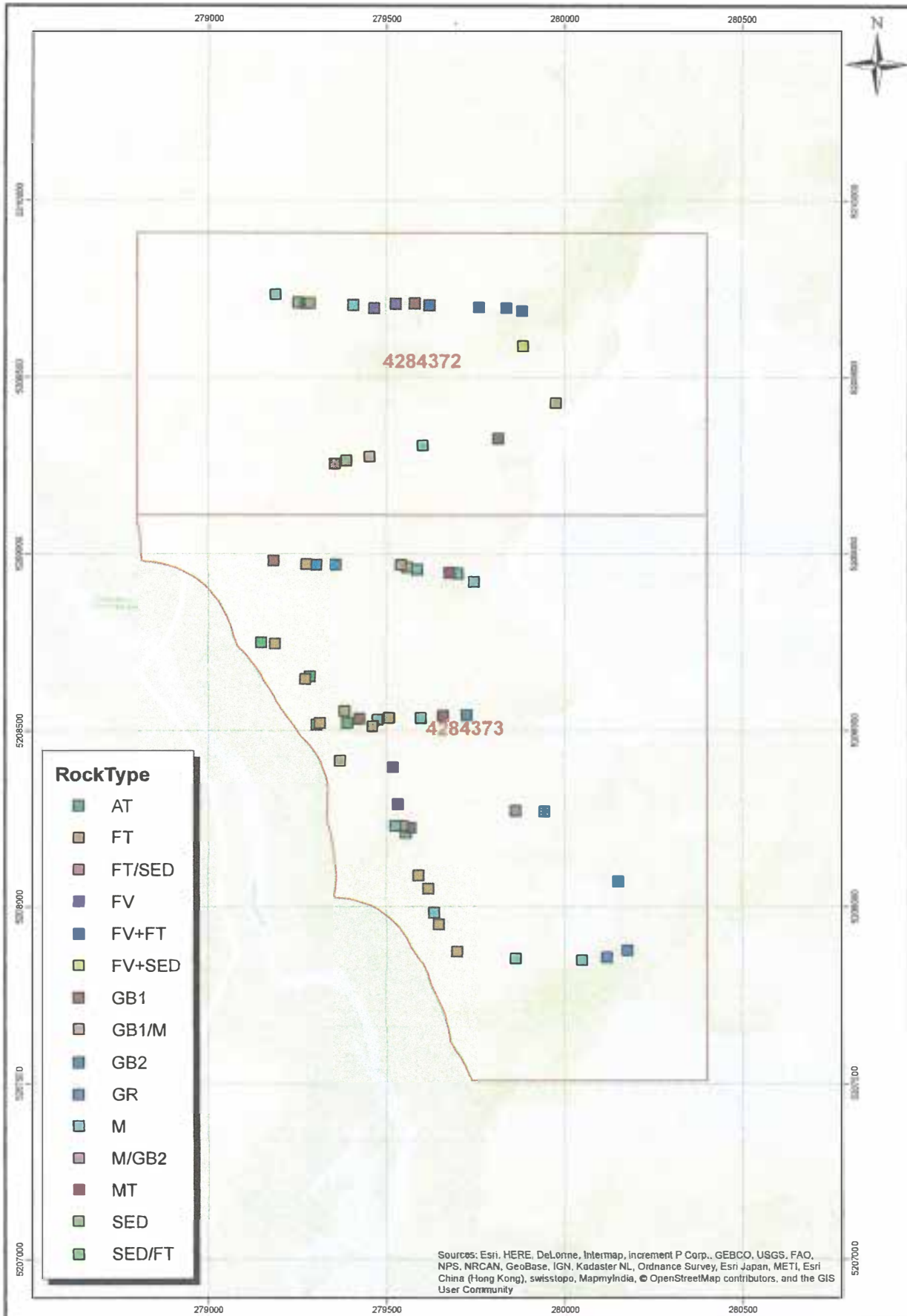
The geological mapping indicated that the property is underlain by a northwesterly trending northeasterly dipping series of felsic and mafic volcanic units with range in composition from lapilli tuffs to massive flows. A mass of granitic material underlies the eastern part of the property. All units are cut by NNW trending mafic dykes. The location of exposures examined are shown on Figure 6: Geology.

The following Legend was used to simplify the various rock types and to construct a generalized geological map of the property. The resulting map is shown in Figure 7.

Legend		Color
M	Massive Mafic Volcanic	dark green
MT	Mafic Tuff	green
FV	Massive Felsic Volcanic	yellow
FT	Felsic Tuff	yellow
AT	Ash Tuff	red
CH	Chert	red
GR	Granodiorite	pink
GB1	Gabbro non-magnetic	blue
GB2	Gabbro Magnetic	blue
SED	Sediment	brown

An analysis of the lithogeochemistry data and comparison with work done by Grunsky (1980)<sup>3</sup> indicates that the more felsic units should be described as dacite while the mafic units are probably andesite. Results of the Lithogeochemical analysis are presented in Appendix C. Note that the comparison was made with Grunsky's samples 16, 17 and 22 which are located along strike from the Buck Lake Property.

<sup>3</sup> Grunsky, E.C. Geology of the Cowie Lake Area District of Algoma Ontario Geological Survey Report 192



Sources: Esri, HERE, DeLonne, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Coordinate System: NAD 1983 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 6

JD Exploration Inc.

**Geology**

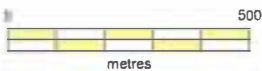
Buck Lake Property  
 Lunkie Township, Ontario

Scale 1:10,000

NTS: 41K/18

Geology01.mxd

Date: 16-Oct-2017



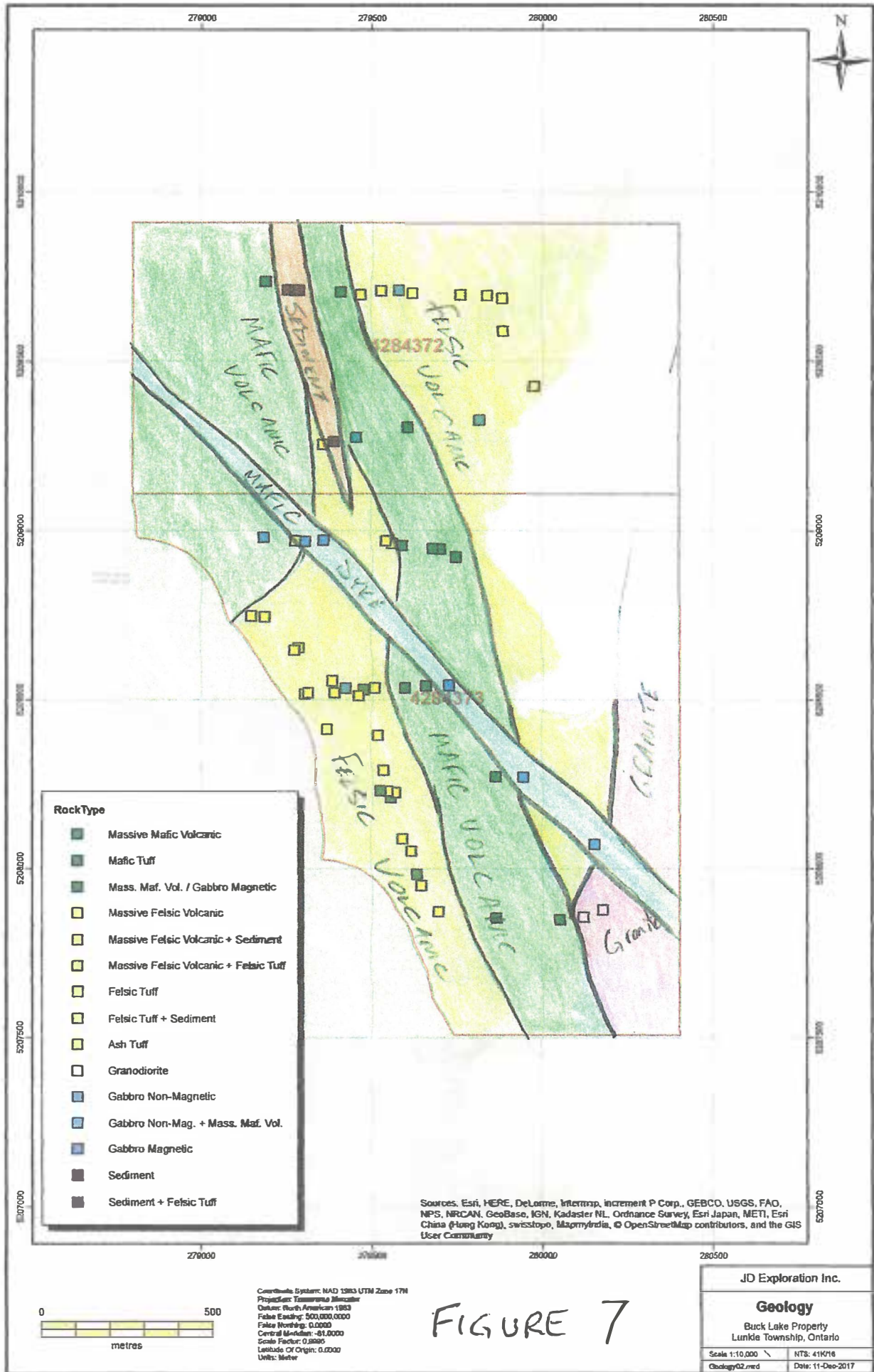


FIGURE 7

## Rock Sampling

The location of the rock samples collected for analysis during the geological mapping are presented on Figure 8 and in Table 2 while the results are presented in Table 4.

**Table 2: Location of Rock Samples collected for Analysis**

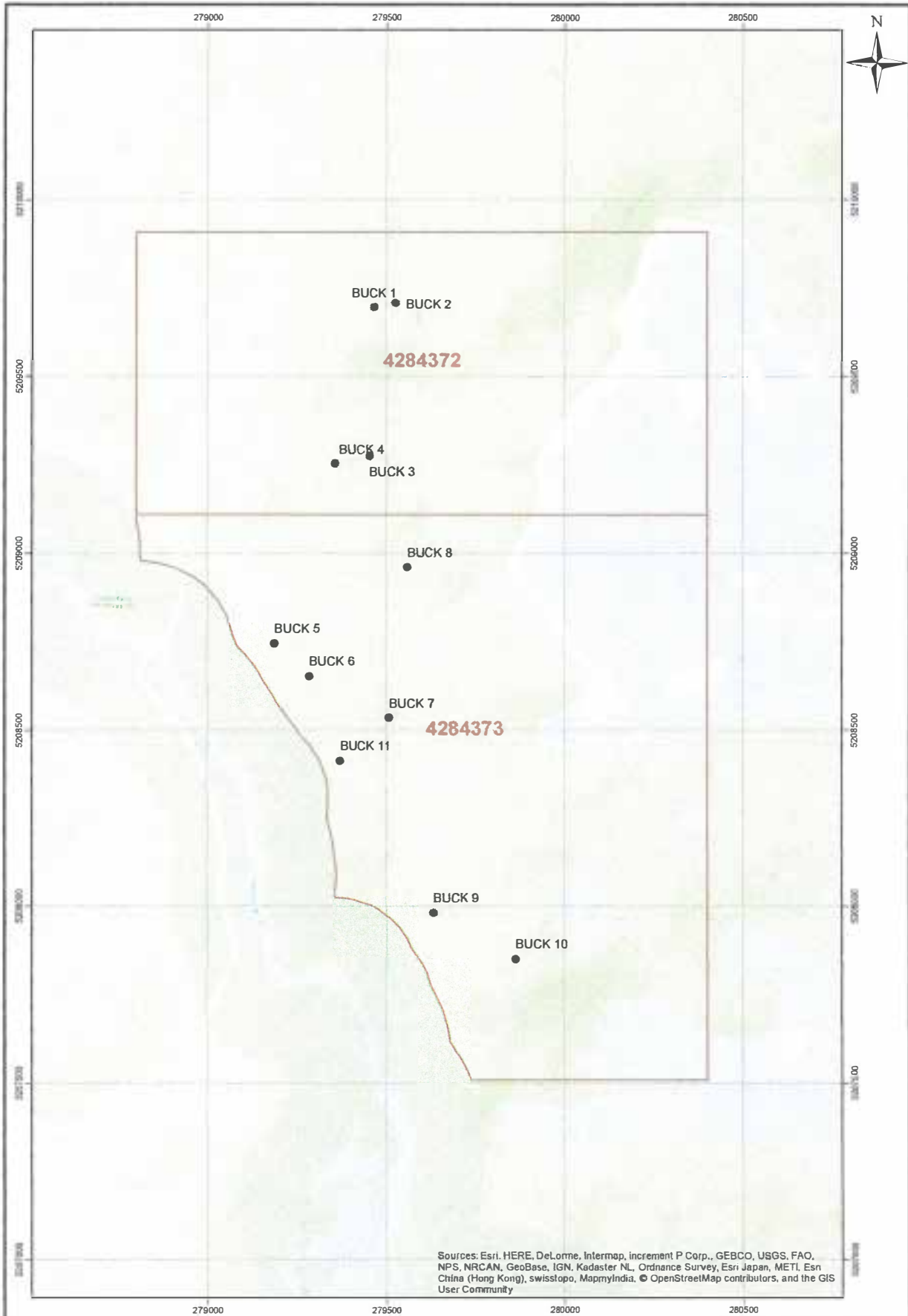
SAMPLES	Easting	Northing	Rock Type	Tag Number	
BUCK 1	279466	5209697	FV	W106719	
BUCK 2	279526	5209709	FV	W106720	Chalcopyrite noted
BUCK 3	279453	5209276	FT/SED	W106729	
BUCK 4	279356	5209255	FT/SED	W106721	
BUCK 5	279187	5208746	FT	W106722	
BUCK 6	279284	5208654	AT	W106723	
BUCK 7	279508	5208536	FT	W106724	
BUCK 8	279559	5208962	FT	W106725	
BUCK 9	279632	5207983	M	W106726	
BUCK 10	279863	5207854	M	W106727	
BUCK 11	279370	5208416	FT	W106728	

The final certificates of analysis from Actlab Laboratories are included in the Appendix D for reference. The limited Quality Assurance/Quality Control samples included by the laboratory appear to be sufficient for the level of investigation represented by these samples. Results of the laboratory QA/QC are presented in the Certificates in the Appendix D. In addition, two field duplicates of the soil samples were collected during the field collection at sample location sites 0604 and 0502. The results indicate satisfactory duplication as indicated in Table 3 below:

**Table 3: DUPLICATE SAMPLES**

Analyte Symbol	Ag	As	Au	Cr	Cu	Fe	Hg	Mo	Ni	Pb	Zn
0502	0.2	0.8	2	38	3.5	2.43	0.08	0.9	13.8	6.7	66
0802	0.2	< 0.5	2.3	38	3.7	2.54	0.08	0.9	13.9	6.9	64
0604	0.1	< 0.5	3.8	35	5.9	2.78	0.06	1	13	8.9	79
0801	0.1	< 0.5	4	38	6.6	2.98	0.06	1	13.9	9.2	84

The rock samples collected were analyzed for base and precious metals as well as additional elements for a total of 36 elements. There elements of interest as presented in Table 4 below. There were not enough samples to perform a statistical evaluation so “Anomalous” and “Possibly Anomalous” results were determined by comparison among the values and associated elements and assigned relative values – High, Moderate and Low.

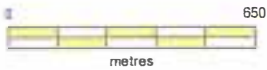
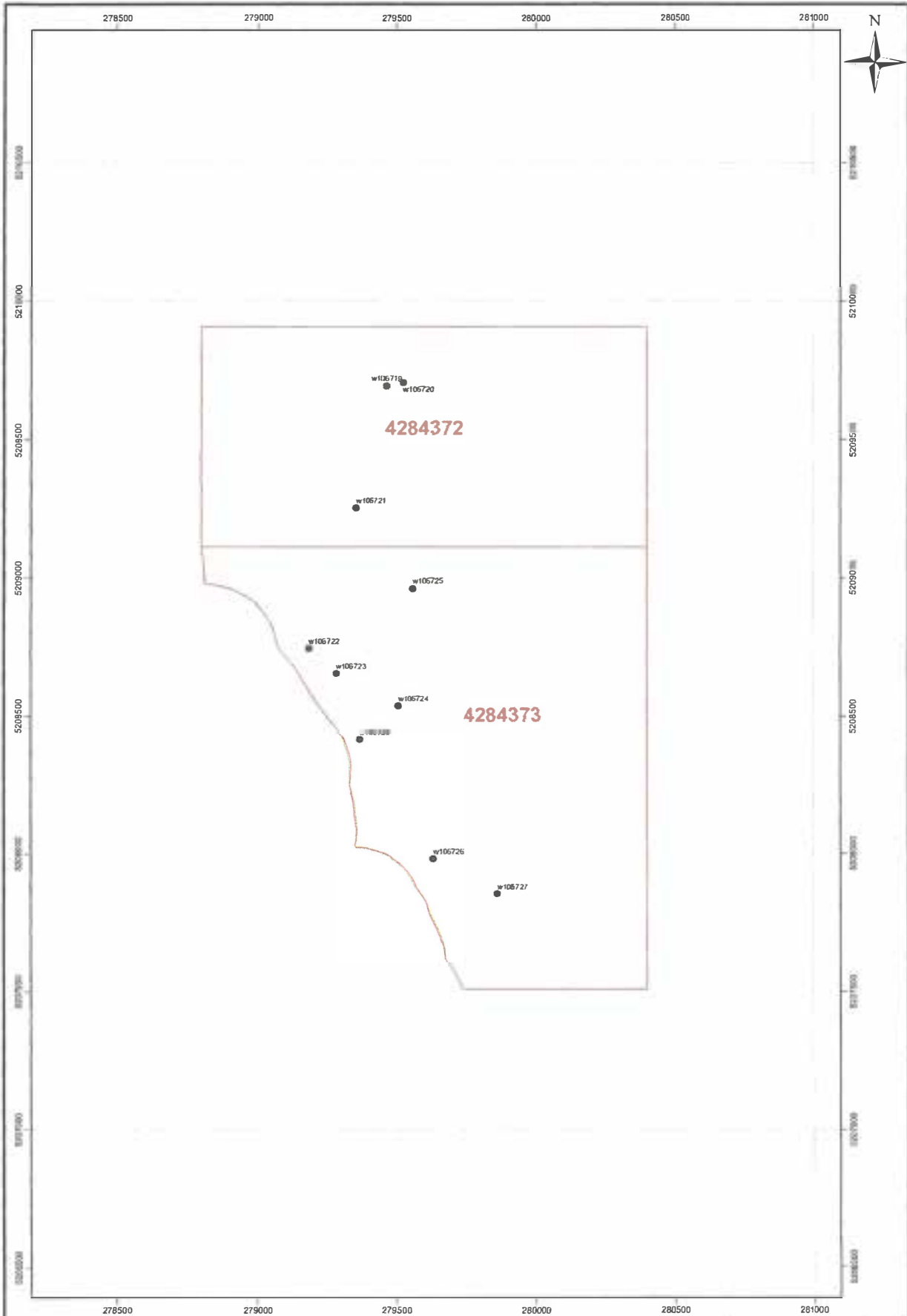


Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Coordinate System: NAD 1983 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 8

JD Exploration Inc.	
<b>Rock Sample Locations</b>	
Buck Lake Property Lunkie Township, Ontario	
Scale 1:10,000	NTS: 4/16/18
RockSample01.mxd	Date: 16-Oct-2017



Coordinate System: WGS 1984 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: WGS 1984  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 8A

JD Exploration Inc.	
<b>Rock Sample Numbers</b>	
Buck Lake Property Lunkie Township, Ontario	
Scale 1:10,000	NTS: 41K/16
RockNumbers01.mxd	Date: 9-Jan-2018



**Table 4: Analytical Results for Rocks**

Analyte	Ag	As	Au	Cr	Cu	Fe	Hg	Mo	Ni	Pb	Zn
ROCKS											
w106719	2.1	2.1	11.9	87	1460	2.52	0.02	25.4	26.9	141	980
w106720	1.1	< 0.5	7	13	1170	5.42	0.01	0.8	18.4	17.2	102
w106721	< 0.1	< 0.5	1.4	25	17.9	2.64	< 0.01	0.4	14.7	4.7	67
w106722	< 0.1	< 0.5	1.6	66	15.7	3.77	< 0.01	0.7	13.4	5.9	61
w106723	< 0.1	< 0.5	< 0.5	28	10.5	2	< 0.01	0.5	23.6	3.3	70
w106724	< 0.1	0.6	†	27	26.2	3.24	0.01	20	11.1	101	63
w106725	< 0.1	< 0.5	< 0.5	7	6	1.26	< 0.01	0.4	0.8	2.4	12
w106726	< 0.1	< 0.5	0.9	7	12	2.7	< 0.01	0.5	5.7	6.7	32
w106727	4.2	< 0.5	1.6	146	38	3.95	< 0.01	18.4	86.9	522	390
w106728	< 0.1	< 0.5	†	58	92.7	5.82	0.02	0.6	67.6	1.9	70

Note: Yellow indicates anomalous values while orange indicates possibly anomalous values.

**Soil Sampling**

A series of soil samples were collected along six reconnaissance lines trending east-west across the property. All soil samples were analyzed for 36 elements by Actlabs of Ancaster including the following metals of interest:

Ag	As	Au	Cr	Cu	Fe	Hg	Mo	Ni	Pb	Zn
----	----	----	----	----	----	----	----	----	----	----

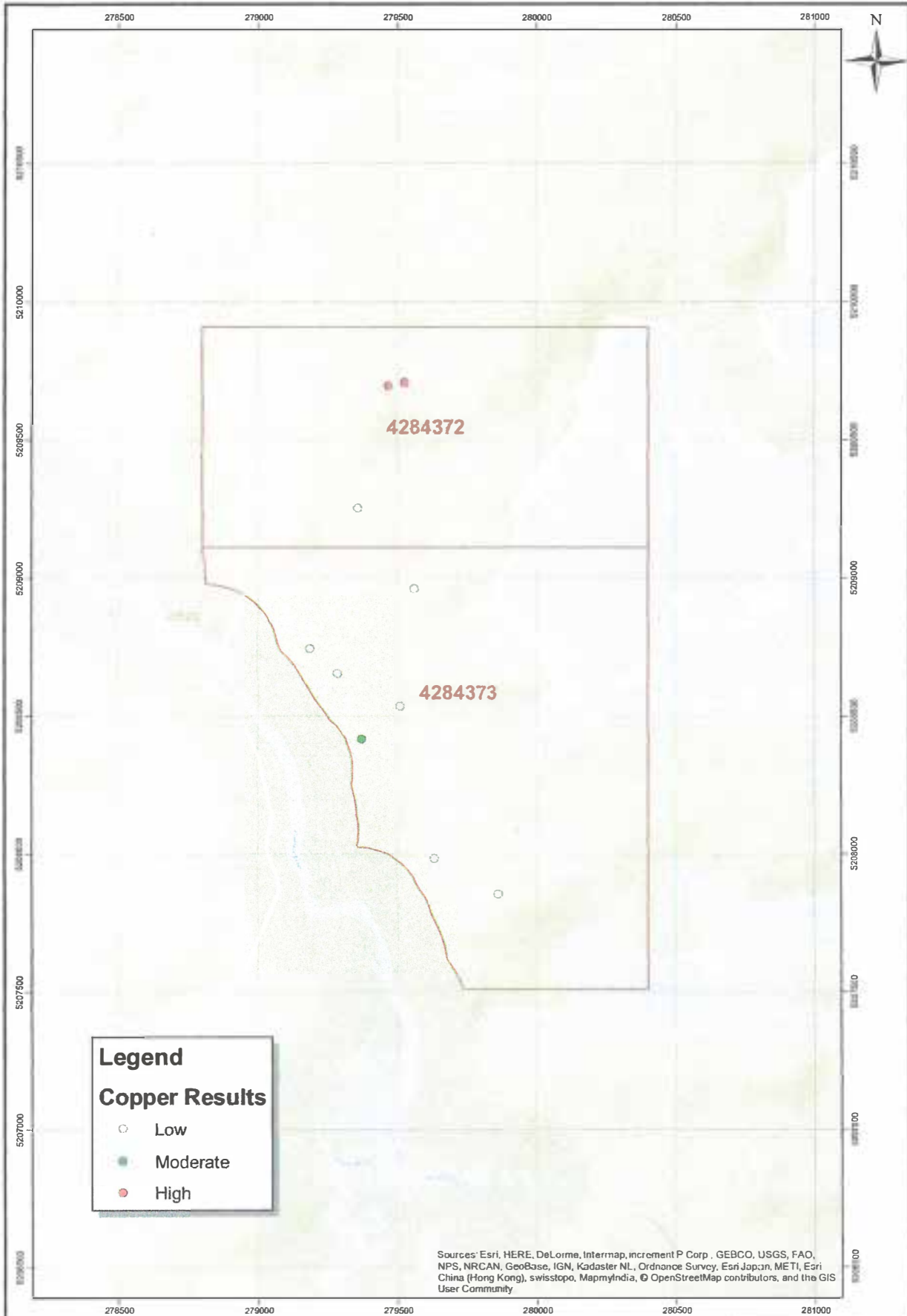
The resulting chemical values were evaluated to determine the presence of anomalous soil values. The details of soil sampling locations and brief descriptions are included in Appendix B, while Table 5 shows the results and highlights anomalous values. Figures 11 to 13 show the locations of anomalous values for copper, zinc and lead respectively.

**Table 5: Soil Sampling Results**

Report Number: A17-11486

Report Date: 29/11/2017

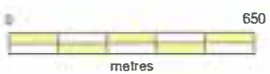
Analyte Symbol	Ag	As	Au	Cr	Cu	Fe	Hg	Mo	Ni	Pb	Zn			
Sample Number	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
0101	0.2	0.5	<	2.1	37	9.4	2.29	0.09	1.1	12.6	8.5	67		
0102	<	<	<	0.1	0.5	3.6	41	12	2.43	0.12	1.3	17.1	7.3	67
0103	<	<	<	0.1	0.5	3.4	29	17.1	2.61	0.06	1.3	14.1	7.1	90
0104	0.3	0.7	4.1	30	13.7	2.32	0.08	0.8	14.6	7.7	144			



**Legend**  
**Copper Results**

- Low
- Moderate
- High

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

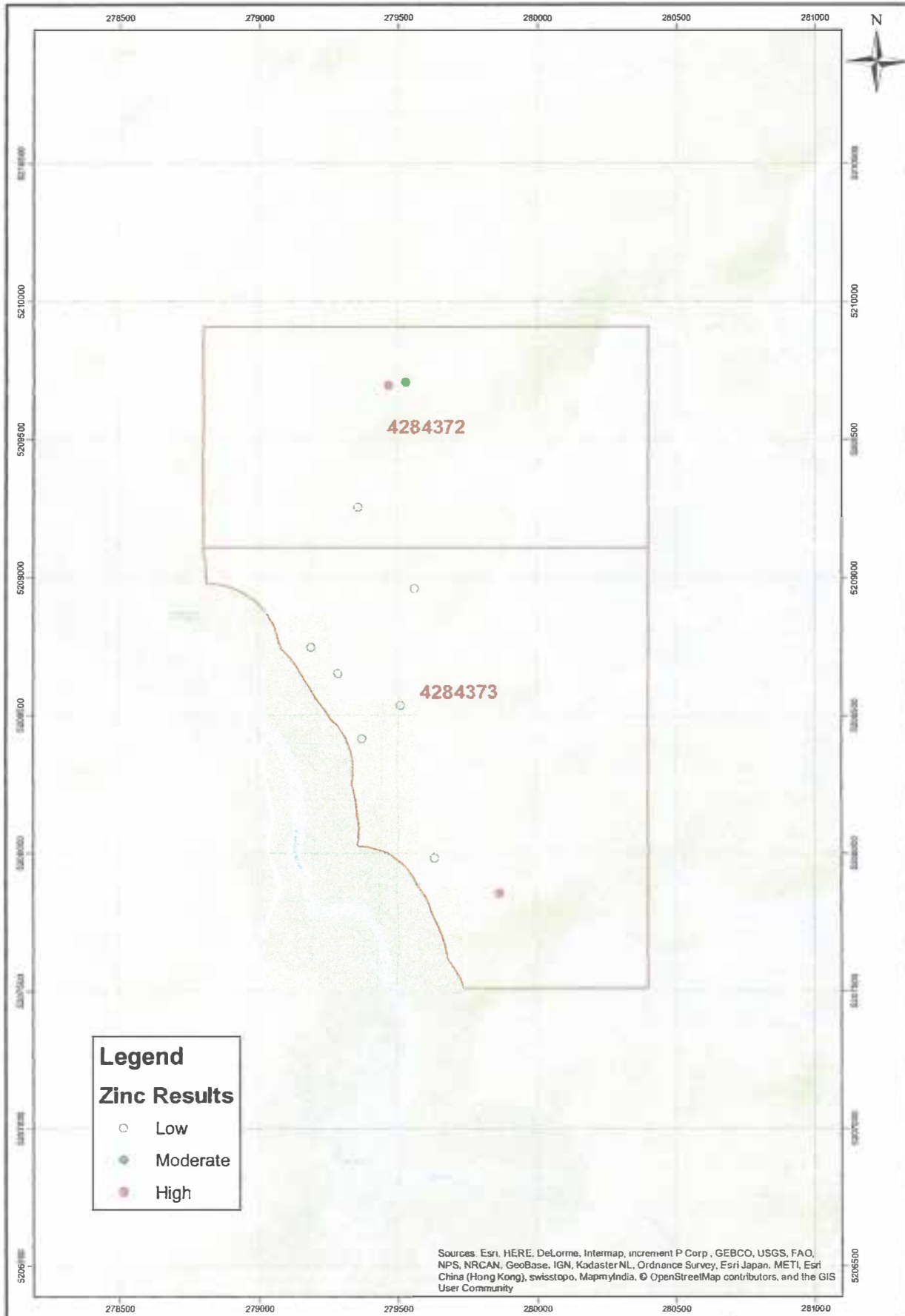


Coordinate System: WGS 1984 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: WGS 1984  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

**FIGURE 9**

JD Exploration Inc.  
**Rock Results - Copper**  
 BuckLake Property  
 Lunkie Township, Ontario

Scale 1:10,000	WTS # 0018
RockResultsCu01.mxd	Date: 8-Jan-2018

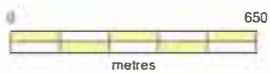


**Legend**

**Zinc Results**

- Low
- Moderate
- High

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Coordinate System: WGS 1984 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: WGS 1984  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

**FIGURE 9 A**

JD Exploration Inc.

**Rock Results - Zinc**

Buck Lake Property  
 Lunkie Township, Ontario

Scale 1:10,000	NTS: 4/10/16
RockResultsZn01.mxd	Date: 8-Jan-2018

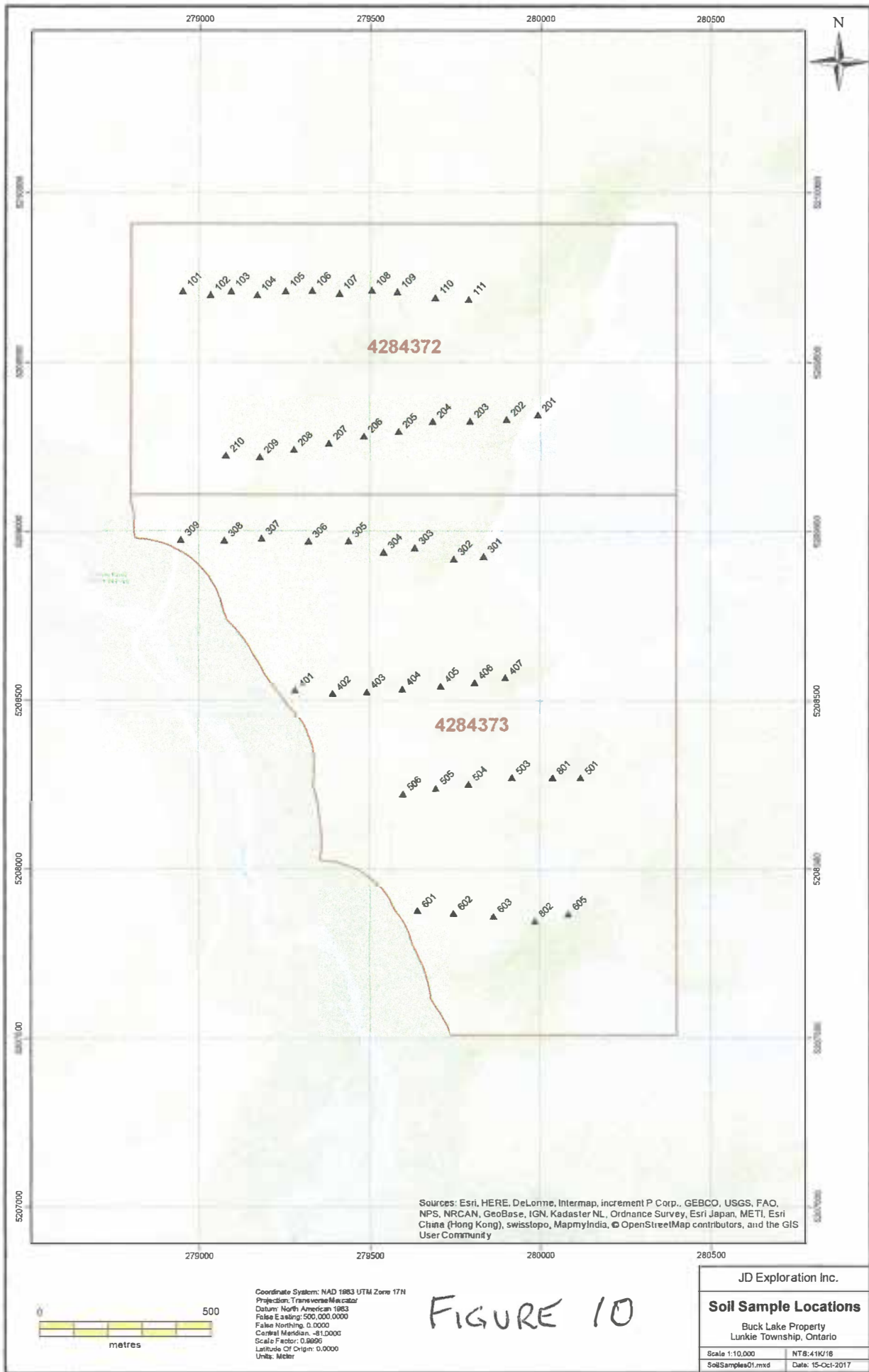


FIGURE 10

Coordinate System: NAD 1983 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: North American 1983  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

0105	0.1	0.9	4.4	32	24.7	3.09	0.03	1.3	13.3	9	274
		<									
0106	0.1	0.5	2.4	32	24.5	1.98	0.06	1.6	15.6	13.1	83
0107	0.2	1.2	3.7	39	32.4	3.24	0.07	1.3	21.9	17.4	175
		<									
0108	0.2	0.5	1.8	35	57	2.51	0.11	2.3	15.3	6.2	94
		<									
0109	0.1	0.5	2.6	36	14	3.18	0.14	1.2	9.6	5.5	62
		<									
0110	0.1	0.8	0.9	25	6.5	2.27	0.05	1.4	5.8	6.3	10
		<									
0111	0.1	1.2	1.9	29	5.6	2.41	0.12	1.2	9.7	9.3	58
		<									
0201	0.1	0.5	1.9	33	3.9	2.71	0.13	1.3	12.6	8.3	40
		<									
0202	0.1	0.6	2.4	29	8	2.14	0.1	1.1	9.9	8.6	37
		<									
0203	0.1	1	1.8	33	10.4	3.68	0.05	1.2	13.1	10	47
		<									
0204	0.1	1.7	2.2	39	9.7	2.74	0.08	0.9	12.9	6.9	34
		<									
0205	0.2	0.5	1.7	31	9.4	2.62	0.06	0.8	12.9	8	40
		<									
0206	0.2	0.5	2.6	37	50.3	1.9	0.08	1.9	20.4	10.2	83
		<									
0207	0.1	0.5	6	33	20.6	2.46	0.07	1	14.3	8.4	66
		<									
0208	0.1	0.5	1.6	27	15.4	1.21	0.08	0.7	14.3	14.6	63
		<									
0209	0.2	0.5	1.3	26	4.6	2.28	0.04	0.5	8.7	7.6	96
		<									
0210	0.1	0.5	1.8	30	3	2.07	0.06	0.7	10.6	6.9	81
		<									
0301	0.1	0.5	2.9	17	1.7	1.16	0.03	1	3	8	21
		<									
0302	0.1	0.5	1.8	23	14	1.81	0.03	0.6	12	3.9	50
		<									
0303	0.1	0.5	3	37	7.9	2.69	0.08	1.1	10.7	9.3	28
		<									
0304	0.1	1.9	2.6	38	26.8	2.84	0.07	1.5	18.9	7.7	34
		<									
0305	0.1	0.5	3.1	32	44.9	1.85	0.03	0.4	21.1	5.2	68
		<									
0306	0.1	0.5	1.1	27	29.9	1.81	0.04	0.8	20.8	4.2	68
		<									
0307	0.1	0.6	1.9	37	53.6	2.91	0.05	1.1	25.9	8.2	95
		<									
0308	0.1	0.5	3.1	15	1.8	1.23	0.02	0.8	5	5.4	21
		<									
0309	0.2	0.5	3.3	28	12.5	2.87	0.07	0.9	11.4	8.7	41
		<									
0401	0.1	0.5	2.3	28	8.6	2.89	0.07	1.2	8.4	8.4	40
		<									
0402	0.2	0.5	2.4	134	15.9	2.52	0.1	1.2	29.9	14	91
		<									
0403	0.2	2.5	2.7	39	8.9	6.26	0.07	2.4	4.4	17.1	19
		<									
0404	0.1	0.5	3.7	33	19.6	2.28	0.06	1	13.2	7.1	20
		<									
0405	0.1	1	2.7	34	19.3	3.13	0.12	1.2	13.8	6	63
		<									
0406	0.1	1.2	3.6	43	4.6	2.91	0.03	2.4	14.8	10.5	33

0407	0.1	0.5	1	44	7.6	2.95	0.04	1.1	16.5	8.7	30
0501	0.1	<	3.2	41	6.7	2.28	0.06	1.1	10.9	9.8	18
0502	0.2	0.8	2	38	3.5	2.43	0.08	0.9	13.8	6.7	66
0503	<	<	<	47	15.4	2.45	0.07	0.8	18.2	11.4	45
0504	0.1	0.5	1.5	20	1.2	1.37	0.04	1.2	4.3	8.3	9
0505	0.5	0.9	6.5	44	21.7	4.91	0.14	2.1	15.5	12	100
0506	0.3	2	2.7	36	7	3.69	0.11	2.6	12	17.8	195
0507	0.2	1.7	2.7	43	20.2	2.79	0.09	1.6	12.2	29.6	54
0601	0.3	0.9	3.6	38	6.5	2.6	0.04	1.5	10.9	13.4	82
0602	0.2	<	2.9	81	14.2	3.41	0.09	1.3	33.6	10.9	62
0603	<	<	1.4	48	19.4	3.19	0.06	0.8	18.6	9	43
0604	0.1	<	3.8	35	5.9	2.78	0.06	1	13	8.9	79
0605	<	<	2.4	91	5.4	3.33	0.04	0.9	47.2	6.8	113
0801	0.1	<	4	38	6.6	2.98	0.06	1	13.9	9.2	84
0802	0.2	<	2.3	38	3.7	2.54	0.08	0.9	13.9	6.9	64
<b>Mean</b>	<b>0.18</b>	<b>1.09</b>	<b>2.69</b>	<b>37.84</b>	<b>15.04</b>	<b>2.65</b>	<b>0.07</b>	<b>1.20</b>	<b>14.65</b>	<b>9.41</b>	<b>67.59</b>
<b>Stand Deviation</b>	<b>0.11</b>	<b>0.65</b>	<b>1.18</b>	<b>18.52</b>	<b>13.17</b>	<b>0.85</b>	<b>0.03</b>	<b>0.48</b>	<b>7.46</b>	<b>4.25</b>	<b>47.89</b>
<b>Probably Anomalous</b>	<b>0.30</b>	<b>1.73</b>	<b>3.86</b>	<b>56.36</b>	<b>28.21</b>	<b>3.49</b>	<b>0.10</b>	<b>1.68</b>	<b>22.11</b>	<b>13.66</b>	<b>115.48</b>
<b>Anomalous</b>	<b>0.41</b>	<b>2.38</b>	<b>5.04</b>	<b>74.88</b>	<b>41.38</b>	<b>4.34</b>	<b>0.13</b>	<b>2.17</b>	<b>29.57</b>	<b>17.91</b>	<b>163.37</b>
<b>MIN</b>	<b>0.10</b>	<b>0.50</b>	<b>0.90</b>	<b>15.00</b>	<b>1.20</b>	<b>1.16</b>	<b>0.02</b>	<b>0.40</b>	<b>3.00</b>	<b>3.90</b>	<b>9.00</b>
<b>MAX</b>	<b>0.50</b>	<b>2.50</b>	<b>6.50</b>	<b>134.00</b>	<b>57.00</b>	<b>6.26</b>	<b>0.14</b>	<b>2.60</b>	<b>47.20</b>	<b>29.60</b>	<b>274.00</b>

The definition of “anomalous values” for the soil sampling program was determined by utilizing the mean plus two standard deviations (SD) as determined on the total population of data. The “probably anomalous” values are at the value of the mean plus one SD while “possibly anomalous” values were highlighted by being in proximity to other anomalous values. The resulting values are presented in Table 5 and Table 6 shows results for metals of interest.

Table 6: Anomalous Results for Soil Samples Metals of interest

	Ag	As	Au	Cr	Cu	Hg	Mo	Ni	Pb	Zn
0104	0.3	0.7	4.1	30	13.7	0.08	0.8	14.6	7.7	144
0105	0.1	0.9	4.4	32	24.7	0.03	1.3	13.3	9	274
0106	0.1	< 0.5	2.4	32	24.5	0.06	1.6	15.6	13.1	83
0107	0.2	1.2	3.7	39	32.4	0.07	1.3	21.9	17.4	175



0108	0.2	< 0.5	1.8	35	57	0.11	2.3	15.3	6.2	94
0206	0.2	< 0.5	2.6	37	50.3	0.08	1.9	20.4	10.2	83
0304	0.1	1.9	2.6	38	26.8	0.07	1.5	18.9	7.7	34
0305	< 0.1	< 0.5	3.1	32	44.9	0.03	0.4	21.1	5.2	68
0306	< 0.1	< 0.5	1.1	27	29.9	0.04	0.8	20.8	4.2	68
0307	0.1	0.6	1.9	37	53.6	0.05	1.1	25.9	8.2	95
0402	0.2	< 0.5	2.4	134	15.9	0.1	1.2	29.9	14	
0403	0.2	2.5	2.7	39	8.9	0.07	2.4	4.4	17.1	
0505	0.5	0.9	6.5	44	21.7	0.14	2.1	15.5	12	100
0506	0.3	2	2.7	36	7	0.11	2.6	12	17.8	195
0507	0.2	1.7	2.7	43	20.2	0.09	1.6	12.2	29.6	54
0601	0.3	0.9	3.6	38	6.5	0.04	1.5	10.9	13.4	82
0602	0.2	< 0.5	2.9	81	14.2	0.09	1.3	33.6	10.9	62
0605	< 0.1	0.6	2.4	91	5.4	0.04	0.8	47.2	6.8	113

### Lithogeochemical Results

11 samples were analyzed by Actlabs for whole rock compositions to assist in the determination of major lithology and as a preliminary assessment of alteration. The results were compared to results presented by Grunsky (1980) in his report. The results of the Lithogeochemical analysis are presented in Appendix D.

## DISCUSSION OF RESULTS

### Rock Samples

Rock samples collected and analyzed during the present study have confirmed the presence of anomalous copper and zinc with possible anomalous gold in exposures in the northern part of the property along Line 01 (sample locations (Samples 0161719 and 10601720 – Buck 1 and Buck 2 respectively). This is at least 400 m from the probable location of the Noranda drill hole and may indicate that the mineralization extends over this distance. The copper identified in the rock samples is described as comprising veinlets and disseminations of chalcopyrite which may be peripheral to a typical VMS type of deposit.

### Lithogeochemical Analysis

Lithogeochemical analysis assisted in the identification of the nature of the lithologies encountered. Further study will be required to determine if there are indications of alteration in the rocks, however, the sample collected on Line 06 at location Buck 11 (279370 E/5208416N) appears to have anomalously low silica, with high potassium, iron, magnesium and aluminum and very low sodium which could indicate chloritic alteration. The sample color was described as “dark” even though it was thought to be a felsic volcanic. The results of whole rock chemical analysis of this sample are presented in Table 7.

Table 7. Results for Sample BUCK 11

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub> (T)	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Cr <sub>2</sub> O <sub>3</sub>	V <sub>2</sub> O <sub>5</sub>	LOI
47.93	15.05	12.38	0.231	5.83	12.67	0.75	2.55	0.83	0.06	0.05	0.045	1.54

### Soil Sampling

The soil sampling confirmed the presence of a copper +/-zinc +/- lead soil anomaly through the central part of the property from line 06 to line 01. The presence of a previously identified EM and magnetic anomaly in the same area indicates that the mineralizing system may be related to the material causing the EM Anomaly (probably massive sulphide?).

There are concentrations of anomalous copper in soil on lines 1S, 2S and 3S in the north and a trend of possibly anomalous copper on the remaining southern lines (Figure 11). The most northerly line also has an anomaly for zinc in two areas and a possible anomaly for lead in the same area (Figures 12 and 13).

There is an anomalous area for zinc and lead on lines 5S and 6S in the southern part of the property. These anomalies appear to be situated laterally to the west of the copper trend.

A very strong gold anomaly is seen on line 5S. A corresponding mercury anomaly occurs at this location as well. The interesting discovery is an Au + Ag + Hg anomaly which occurs in an isolated area on line 5S at station 505. The geological mapping of outcroppings in this area identified quartz veinlets and this appears to be an interesting target notwithstanding the isolated nature of the anomalous soil result.

## CONCLUSIONS AND RECOMMENDATIONS

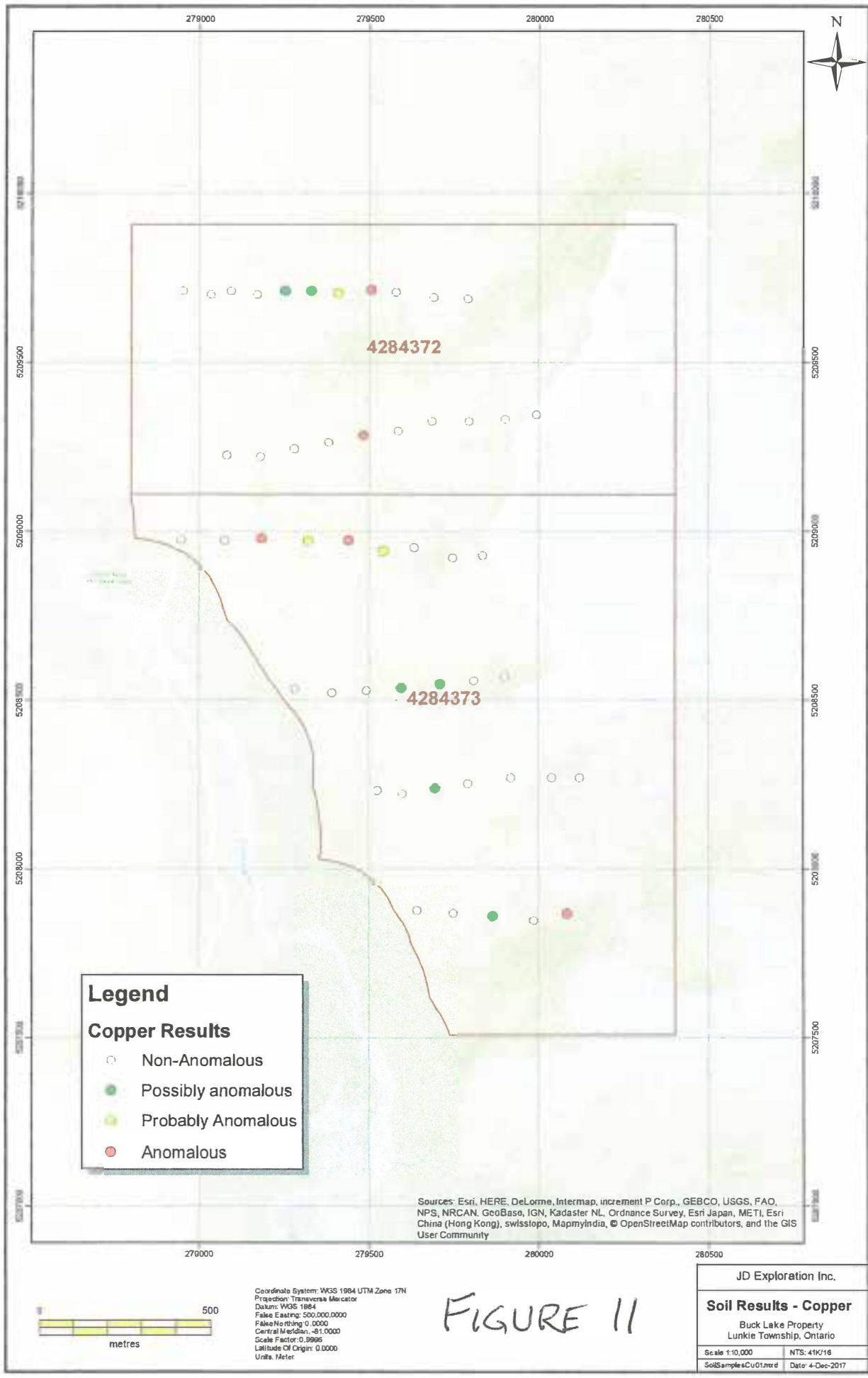
The Buck Lake Property has been surveyed by reconnaissance level soil geochemistry, geological mapping and prospecting. The results have defined a series of north trending felsic and mafic volcanic units of probable dacite and andesite composition and minor possible chert and sedimentary rocks. Sampling of these rock units has identified exposures containing anomalous copper and zinc mineralization. Note that anomalous gold values were also encountered in these rock samples. The rock results seem to confirm the presence of copper mineralization which was identified in past drilling as chalcopyrite.

The soil sampling program has identified a generally north-south trending zone of anomalous copper, zinc and lead with possibly anomalous gold with higher concentration in the northern and southern parts of the property. The anomalous zone lies close to a contact between mafic and felsic volcanic units which has been identified to be proximal to an EM + Mag anomaly. The soil geochemistry anomaly appears to run through the property for a length of over 2500m.

All of the rock and soil results suggest that further work should be conducted on the property.

It is recommended that a program of detailed soil sampling along with detailed geological mapping and prospecting work be undertaken in the area of the soil anomalies identified in this program. Detailed lines across the anomalous areas at a spacing of 100 m with samples at 25m spacing



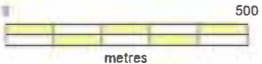


**Legend**

**Copper Results**

- Non-Anomalous
- Possibly anomalous
- Probably Anomalous
- Anomalous

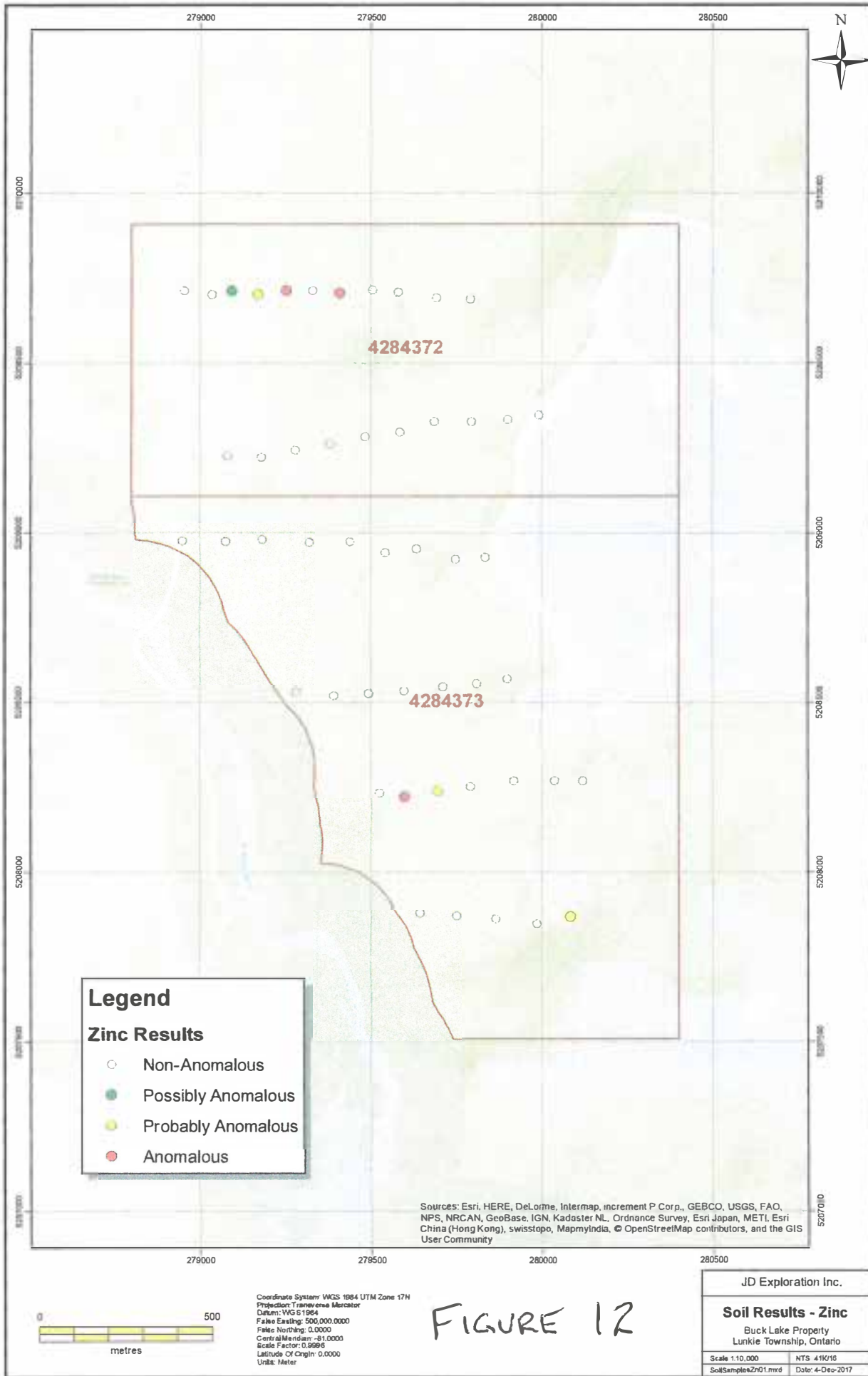
Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisslpo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

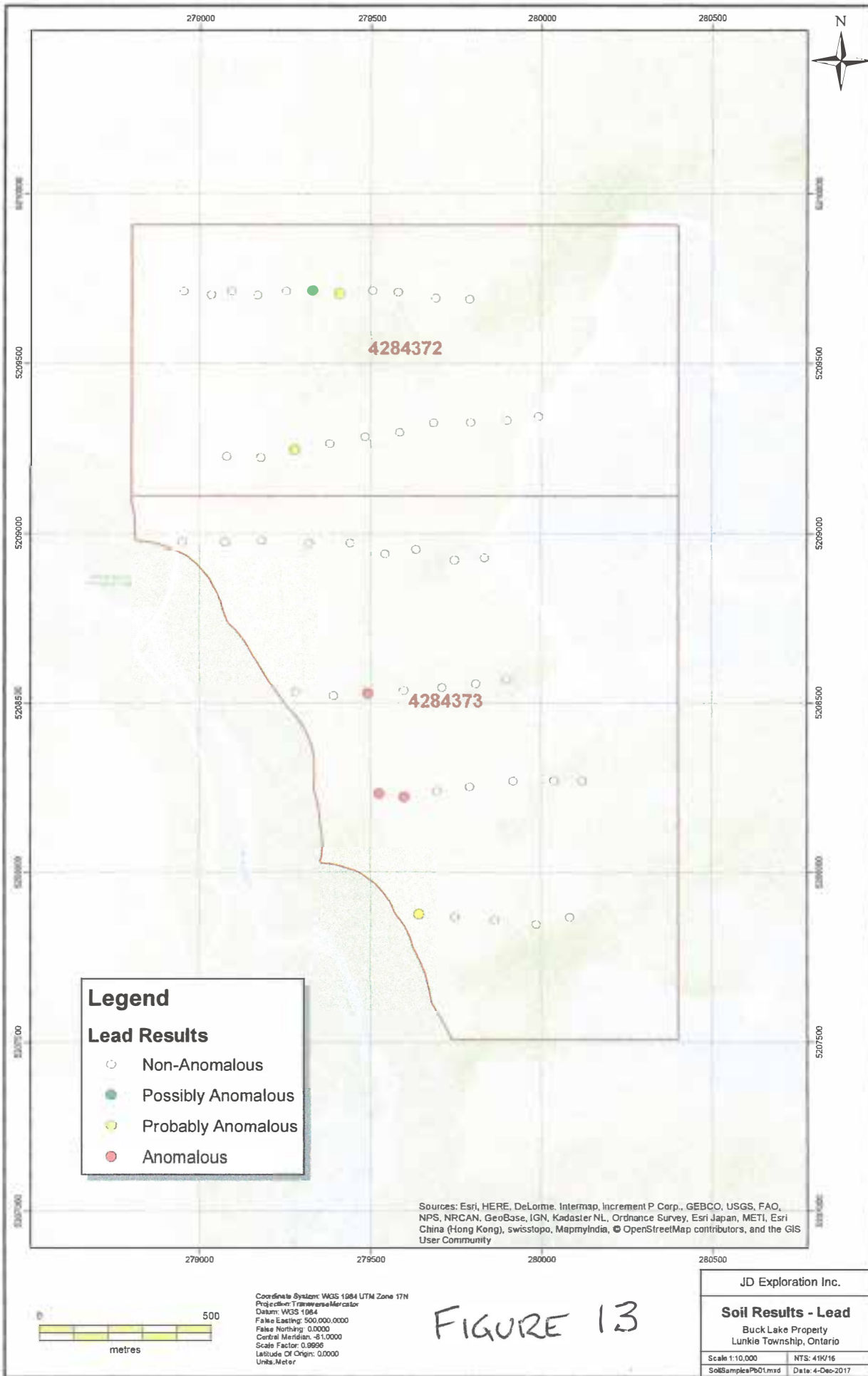


Coordinate System: WGS 1984 UTM Zone 17N  
 Projection: Transverse Mercator  
 Datum: WGS 1984  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 11

JD Exploration Inc.	
<b>Soil Results - Copper</b>	
Buck Lake Property Lunkie Township, Ontario	
Scale 1:10,000	NTS: 41K/16
SoilSamplesCu01verd	Date: 4-Dec-2017





**Legend**

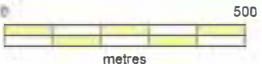
**Lead Results**

- Non-Anomalous
- Possibly Anomalous
- Probably Anomalous
- Anomalous

4284372

4284373

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Coordinate System: WGS 1984 UTM Zone 17N  
 Projection: TransverseMercator  
 Datum: WGS 1984  
 False Easting: 500,000.0000  
 False Northing: 0.0000  
 Central Meridian: -81.0000  
 Scale Factor: 0.9996  
 Latitude Of Origin: 0.0000  
 Units: Meter

FIGURE 13

JD Exploration Inc.	
<b>Soil Results - Lead</b>	
Buck Lake Property Lunenburg Township, Ontario	
Scale 1:10,000	NTS: 4/16/16
SoilSamplePb01.mxd	Date: 4-Dec-2017

would serve to detail the location of the underlying mineralization. Hand trenching and or grubbing should be included in the prospecting if shallow overburden is suspected.

The area of the anomalous gold, silver and mercury at location 0505 should be the focus of special attention since the soil sample collected in this area is very anomalous in these metals and unusual in that there are very few samples containing anomalous gold and/or mercury in the results of the soil sampling for the remainder of the property. It should be noted that the outcrops in this area are described in geological mapping as felsic volcanic units containing quartz veinlets. An unusual and highly prospective situation.

Further work should include VLF EM and Magnetic surveys to confirm the location of the geophysical anomalies identified in earlier programs and to relate the soil anomalies to these features. The program should include trenching in areas of anomalous soil results and drilling to further explore any mineralization encountered.

It is also recommended that the property be extended to the north at least 1,200 metres (approximately 10 to 12 units) to include any extension of the soil anomaly identified on the northern-most soil line.

## COSTS OF THE OCTOBER 2017 PROGRAM

The following table summarizes costs for the Fall 2017 Program on the Buck Lake Property

<b>BUCK PPROPERTY Budget 2017</b>					
<i>Item</i>	<i>Number</i>	<i>Units</i>	<i>Rate</i>	<i>Total</i>	
Soil Samples	52	samples	\$23	\$1,204.58	1000m long E-W lines. UTM points
Collection	52	samples	\$25	\$1,300.00	Lines samples spacing at +/- 100 m
GIS	8.5	hours	\$100	\$850.00	P Bell Contract
Geology	5	days	\$1,000	\$5,000.00	Includes Prospecting
Reporting	3	days	\$750	\$2,250.00	
Rock Samples	11	samples	\$54	\$593.53	assay
Litho geochemistry	11	samples	\$42	\$456.80	whole rock
Accomodation	5	days	\$250	\$829.57	Motel and Meals
Travel	2100	km	\$0.52	\$1,181.75	mileage at \$0.5/km
Materials			\$125	\$125.43	Sample bags, flagging, maddocks etc.
<b>TOTAL</b>				<b>\$13,791.67</b>	

## EXPENSES

Buck Lake Expenses - October 2017			
Date	Item	Amount	
01/10/2017	Geotul	\$56.50	
01/10/2017	supplies	\$68.93	
06/10/2017	Supplies	\$12.85	
05/10/2017	lunch	\$36.12	
04/10/2017	dinner	\$88.04	
03/10/2017	dinner	\$71.01	
01/10/2017	lunch	\$21.00	
02/10/2017	dinner	\$79.99	
02/10/2017	batteries	\$3.39	
01/10/2017	food	\$40.36	
01/10/2017	motel	\$402.28	
01/10/2017	dinner	\$74.37	
<b>Total</b>		<b>\$954.84</b>	
Mileage		\$1,181.75	
Expenses		\$2,136.59	

## **Certification**

I James R. Atkinson M. Sc. P. Geo. of 4149 Watson Road S. Puslinch, ON N0B 2J0 do Hereby Certify:

1. That I am a Registered Professional Geoscientist (No.1086) of the Association Of Professional Geoscientists of Ontario;
2. That I am a graduate of the University of Toronto (M. Sc.) 1992, and Brock University (B. Sc.) 1972;
3. I have been practicing my profession as a consultant and employee of mining consulting and exploration companies since graduation;
4. I personally supervised and conducted the work referenced in the enclosed report;
5. I completed the attached report;
6. I have an interest in the referenced property as President of JD Exploration Inc.

Dated: \_\_\_\_\_

Signed:

APPENDIX A  
Geologic Descriptions

Outcrop Mapping		S1 strike	S1 dip	Description	Min.	% Alt'n	Strength	SAMPLES	
Easting	Northing	Rk	Type						
279188	5209736	M		fractures at 110/80N&040/70E		Carb	Weak		
279253	5209712	SED	145	85E F gr dark "spots" along S1	Py	Tr			
279274	5209710	M				Carb	Weak		
279281	5209711	M							
279285	5209711	SED	170	90	py	tr			
279408	5209706	M	140	70E massive	py, cpy	tr			
279466	5209697	FV						BUCK 1	W106719
279526	5209709	FV			py, cpy, mal	chl vns+perv	Mod	BUCK 2	W106720
279579	5209710	GB1							
279620	5209705	FV+FT			py	tr ep vns	mod		
279760	5209699	FV+FT							
279838	5209697	FV+FT							
279882	5209688	FV+FT							
279884	5209590	FV+SED	020	90		qtz, qtz+chl			
279976	5209428	FT	010	85E					
279814	5209327	GB1		m gr					
279603	5209306	M		massive					
279453	5209276	GB1/M		m gr Gb transitions to fgr M				BUCK 3	
279388	5209264	SED/FT	170	70E bio spots					
279356	5209255	FT/SED				limonite	mod	BUCK 4	W106721
279187	5208746	FT	005	90 very dark silicious		silica	mod strong	BUCK 5	W106722
279284	5208654	AT			py	tr qtz, blk qtz	mod	BUCK 6	W106723
279303	5208518	AT	340	65E					
279390	5208522	AT	350	80E					
279475	5208531	M		massive					
279508	5208536	FT	170	75E				BUCK 7	W106724
279596	5208536	M		massive					
279658	5208542	MT	160	75E					
279725	5208544	GB2							
279746	5208922	M		continuous outcrop					
279700	5208945	M							
279678	5208947	MT	005	85E may have 050/75E schistosity					
279587	5208956	M		rusty on fractures					
279559	5208962	FT	010	85E very silicious in places		silica	locally strong	BUCK 8	W106725
279541	5208970	FT		large cliff					
279358	5208971	GB2							
279303	5208968	GB2							
279275	5208970	FT	010	90		qtz veinlets	mod		
279183	5208980	GB1							
279148	5208749	AT							
279272	5208646	FT	005	70E rusty on fractures					
279383	5208556	FT	360	75E biotite in rare layers		silica	mod		
279423	5208535	GB1							
279461	5208513	FT	350	75E minor bio along S1					
279518	5208396	FV		massive where exposed					
279533	5208292	FV							
279554	5208211	M							
279589	5208089	FT	355	65E may reflect bedding					
279616	5208052	FT	345	60E silica "streaks" along S1	PY	tr sillica	Mod		
279632	5207983	M				carbonate	mod	BUCK 9	W106726
279645	5207950	FT	005	80E very dark silicious					
279696	5207873	FT	350	70E may be bedding		silica patches	weak		
279863	5207854	M			py	tr		BUCK 10	W106728
280050	5207848	M			py	tr			
280119	5207857	GR		massive to locally gneissic					
280176	5207878	GR		massive					



APPENDIX B  
Soil Sample Locations

### BUCK LAKE SOIL SAMPLES

Sample No.	Easting	Northing	depth (cm)	Color	Texture	WP No.
101	278953	5209713		40 dk brn	s. till	21
102	279033	5209702		50 v dk brn	till	20
103	279092	5209713		40 dk brn	till	22
104	279169	5209702		40 dk brn	s. till	23
105	279252	5209713		30 rd brn	till	26
106	279329	5209714		30 rd brn	till	29
107	279408	5209706		20 blk brn	organic	30
108	279504	5209715		30 dk brn	till	34
109	279579	5209710		20 rd brn	s. till	38
110	279690	5209693		20 brn	s. till	41
111	279790	5209689		30 rd brn	s. till	44
201	279991	5209345		20 rd brn	till	51
202	279900	5209332		20 brn	till	522
203	279793	5209327		30 brn	till	54
204	279684	5209326		30 brn	till	55
205	279584	5209297		30 brn	till	57
206	279482	5209283		35 dk brn	till	
207	279379	5209262				
208	279277	5209244		30 black	wet Org	
209	279178	5209222		25 brn	till	65
210	279078	5209226		30 dk brn	till	67
301	279833	5208929		25 brn	clay till	87
302	279746	5208922		20 brn	s.till	88
303	279632	5208953		25 brn	s.till	95
304	279541	5208941		25 brn	s.till	98
305	279438	5208973		20 dk brn	s.till	99
306	279319	5208971		15 dk brn	s.till	101
307	279182	5208980				109
308	279073	5208974		20 dk brn	s.till	110
309	278948	5208976		30 dk brn	s.till	111
401	279281	5208533		20 dk brn	s.till	74
402	279390	5208522		20 brn	s.till	76
403	279492	5208528		25 dk brn	s.till	79
404	279596	5208536		30 brn	s.till	81
405	279708	5208546		20 dk brn	s.till	83
406	279808	5208556		25 dk brn	s.till	85
407	279898	5208569		30 rd brn	s.till	86
501	280119	5208271		30 dk brn	s.till	143
502	280037	5208271		25 dk brn	s.till	144
503	279917	5208271		30 dk brn	s.till	146

504	279790	5208252	30 brn			148
Sample No.	Easting	Northing	depth (cm)	Color	Texture	WP No.
505	279694	5208240	20 brn		s.till	149
506	279598	5208223	20 brn		s.till	150
507	279525	5208233				152
601	279641	5207877	30 dk brn		s.till	131
602	279747	5207869	20 dk brn		s.till	133
603	279863	5207860	30 dk brn		s.till	134
604	279984	5207847	35 dk brn		s.till	136
605	280083	5207868	30 dk brn		s.till	138
801 duplicate		502				144
802 duplicate		604				136

APPENDIX C  
Lithochemical Results

**LITHOGEOCHEMICAL ANALYSIS OF ROCK SAMPLES FROM BUCK LAKE PROPERTY OCT. 2017**

Analyte Unit	Co3O4 %	CuO %	NiO %	SiO2 %	Al2O3 %	Fe2O3(T) %	MnO %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	Cr2O3 %	V2O5 %	LOI %	Total SAMPLES %
w106719	< 0.005	0.208	< 0.003	70.01	14.2	4.29	0.054	1.53	3.46	3.13	1.76	0.4	0.07	0.01	0.016	1.57	100.7 BUCK 1
w106720	< 0.005	0.161	0.004	64	13.79	8.09	0.123	2.87	2.26	4.05	0.88	1.01	0.36	0.01	0.012	2.8	100.4 BUCK 2
w106721	< 0.005	0.009	< 0.003	69.13	15.1	3.91	0.046	1.72	1.44	5.75	1.14	0.3	0.08	< 0.01	0.008	1.68	100.3 BUCK 4
w106722	< 0.005	0.009	< 0.003	61.17	16.51	6.26	0.075	2.4	3.97	4.33	2.35	0.93	0.21	0.01	0.021	1.53	99.78 BUCK 5
w106723	< 0.005	0.01	< 0.003	65.34	17.3	3.13	0.028	1.65	3.83	5.14	1.56	0.56	0.18	< 0.01	0.011	0.88	99.63 BUCK 6
w106724	< 0.005	0.008	< 0.003	68.73	14.05	4.99	0.024	1.6	1.25	5.35	1.46	0.4	0.11	< 0.01	0.008	2.11	100.1 BUCK 7
w106725	< 0.005	0.006	< 0.003	75.88	13.53	2.65	0.025	0.61	0.41	2.25	3.29	0.1	0.04	< 0.01	< 0.003	1.68	100.5 BUCK 8
w106726	< 0.005	0.009	< 0.003	70.63	13.86	4.27	0.068	1.23	1.25	5.36	0.81	0.11	0.05	< 0.01	0.008	1.25	98.91 BUCK 9
w106727	< 0.005	0.012	0.022	64.5	12.83	6.38	0.141	4.25	2.68	3.16	2.91	0.59	0.42	0.04	0.021	2.08	100 BUCK 10
w106728	0.005	0.018	0.01	51.4	15.2	13.2	0.221	5.64	8.16	2.9	0.97	1.15	0.11	0.02	0.049	1.3	100.4 BUCK 11
w106729	0.006	0.02	0.017	47.93	15.05	12.38	0.231	5.83	12.67	0.75	2.55	0.83	0.06	0.05	0.045	1.54	99.99 BUCK 3

APPENDIX D  
Laboratory Certificates

Quality Analysis ...



Innovative Technologies

Date Submitted: 17-Oct-17  
Invoice No.: A17-11486  
Invoice Date: 29-Nov-17  
Your Reference:

Jim Atkinson (JD exploration)  
99 MILLEN RD  
OAKVILLE ON  
Canada

ATTN: Jim Atkinson

## CERTIFICATE OF ANALYSIS

77 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code 4C (11+) Whole Rock Analysis-XRF

Code UT-1M Aqua Regia ICP/MS

REPORT A17-11486

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

### Notes:

Note: Au by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Eseme".

Emmanuel Eseme, Ph.D.  
Quality Control

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Results

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Co3O4	CuO	NiO	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	Cr2O3	V2O5	LOI	Total	Ag	Al	As	Au	B	Ba
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	%	ppm	ppb	ppm	ppm
Lower Limit	0.005	0.005	0.003	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.003		0.01	0.1	0.01	0.5	0.5	20	0.5
Method Code	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0101																		0.2	3.48	< 0.5	2.1	< 20	32.1
0102																		< 0.1	3.67	< 0.5	3.6	< 20	35.5
0103																		< 0.1	2.41	< 0.5	3.4	< 20	42.4
0104																		0.3	2.23	0.7	4.1	< 20	37.3
0105																		0.1	1.39	0.9	4.4	< 20	43.7
0106																		0.1	1.95	< 0.5	2.4	< 20	31.7
0107																		0.2	1.87	1.2	3.7	< 20	53.8
0108																		0.2	3.11	< 0.5	1.8	< 20	32.4
0109																		< 0.1	2.85	< 0.5	2.6	< 20	27.0
0110																		< 0.1	1.84	0.8	0.9	< 20	24.1
0111																		< 0.1	2.64	1.2	1.9	< 20	50.7
0201																		0.1	2.64	< 0.5	1.9	< 20	55.3
0202																		< 0.1	2.49	0.6	2.4	< 20	26.9
0203																		0.1	1.19	1.0	1.8	< 20	39.5
0204																		< 0.1	2.94	1.7	2.2	< 20	24.1
0205																		0.2	2.38	< 0.5	1.7	< 20	39.5
0206																		0.2	2.35	< 0.5	2.6	< 20	50.8
0207																		< 0.1	2.26	< 0.5	6.0	< 20	46.8
0208																		< 0.1	1.44	< 0.5	1.6	< 20	44.0
0209																		0.2	1.60	< 0.5	1.3	< 20	74.5
0210																		< 0.1	2.27	< 0.5	1.8	< 20	35.2
0301																		< 0.1	0.76	< 0.5	2.9	< 20	31.5
0302																		< 0.1	1.42	< 0.5	1.8	< 20	35.4
0303																		< 0.1	2.67	< 0.5	3.0	< 20	45.0
0304																		0.1	2.10	1.9	2.6	< 20	32.3
0305																		< 0.1	1.56	< 0.5	3.1	< 20	30.2
0306																		< 0.1	1.72	< 0.5	1.1	< 20	36.4
0307																		0.1	1.99	0.6	1.9	< 20	60.8
0308																		0.1	0.66	< 0.5	3.1	< 20	32.2
0309																		0.2	1.54	0.5	3.3	< 20	34.3
0401																		< 0.1	1.75	< 0.5	2.3	< 20	38.9
0402																		0.2	2.25	< 0.5	2.4	< 20	47.4
0403																		0.2	1.87	2.5	2.7	< 20	32.4
0404																		< 0.1	2.37	< 0.5	3.7	< 20	40.1
0405																		< 0.1	2.79	1.0	2.7	< 20	49.2
0406																		< 0.1	1.24	1.2	3.6	< 20	56.4
0407																		0.1	1.87	0.5	1.0	< 20	51.3
0501																		0.1	1.16	< 0.5	3.2	< 20	27.9
0502																		0.2	2.07	0.8	2.0	< 20	41.0
0503																		< 0.1	1.92	0.7	< 0.5	< 20	43.7
0504																		< 0.1	0.75	< 0.5	1.5	< 20	20.7



Results

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Co3O4	CuO	NiO	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	Cr2O3	V2O5	LOI	Total	Ag	Al	As	Au	B	Ba
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	%	ppm	ppb	ppm	ppm
Lower Limit	0.005	0.005	0.003	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.003		0.01	0.1	0.01	0.5	0.5	20	0.5
Method Code	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0505																		0.5	2.87	0.9	6.5	< 20	101
0506																		0.3	2.23	2.0	2.7	< 20	48.5
0507																		0.2	2.20	1.7	2.7	< 20	57.4
0601																		0.3	1.51	0.9	3.6	< 20	57.6
0602																		0.2	2.47	< 0.5	2.9	< 20	55.8
0603																		< 0.1	1.79	< 0.5	1.4	< 20	33.1
0604																		0.1	2.11	< 0.5	3.8	< 20	47.2
0605																		< 0.1	2.16	0.6	2.4	< 20	78.6
0801																		0.1	2.23	< 0.5	4.0	< 20	48.8
0802																		0.2	2.13	< 0.5	2.3	< 20	42.4
w106719																		2.1	2.01	2.1	11.9	< 20	142
w106720																		1.1	2.68	< 0.5	7.0	< 20	132
w106721																		< 0.1	2.03	< 0.5	1.4	< 20	231
w106722																		< 0.1	2.60	< 0.5	1.6	< 20	406
w106723																		< 0.1	1.70	< 0.5	< 0.5	< 20	297
w106724																		< 0.1	1.49	0.6	1.0	< 20	50.1
w106725																		< 0.1	1.28	< 0.5	< 0.5	< 20	137
w106726																		< 0.1	1.40	< 0.5	0.9	< 20	30.8
w106727																		4.2	2.65	< 0.5	1.6	< 20	342
w106728																		< 0.1	2.92	< 0.5	1.0	< 20	150
w106719	< 0.005	0.208	< 0.003	70.01	14.20	4.29	0.054	1.53	3.46	3.13	1.76	0.40	0.07	0.01	0.016	1.57	100.7						
w106720	< 0.005	0.161	0.004	64.00	13.79	8.09	0.123	2.87	2.26	4.05	0.88	1.01	0.36	0.01	0.012	2.80	100.4						
w106721	< 0.005	0.009	< 0.003	69.13	15.10	3.91	0.046	1.72	1.44	5.75	1.14	0.30	0.08	< 0.01	0.008	1.68	100.3						
w106722	< 0.005	0.009	< 0.003	61.17	16.51	6.26	0.075	2.40	3.97	4.33	2.35	0.93	0.21	0.01	0.021	1.53	99.78						
w106723	< 0.005	0.010	< 0.003	65.34	17.30	3.13	0.028	1.65	3.83	5.14	1.56	0.56	0.18	< 0.01	0.011	0.88	99.63						
w106724	< 0.005	0.008	< 0.003	68.73	14.05	4.99	0.024	1.60	1.25	5.35	1.46	0.40	0.11	< 0.01	0.008	2.11	100.1						
w106725	< 0.005	0.006	< 0.003	75.88	13.53	2.65	0.025	0.61	0.41	2.25	3.29	0.10	0.04	< 0.01	< 0.003	1.68	100.5						
w106726	< 0.005	0.009	< 0.003	70.63	13.86	4.27	0.068	1.23	1.25	5.36	0.81	0.11	0.05	< 0.01	0.008	1.25	98.91						
w106727	< 0.005	0.012	0.022	64.50	12.83	6.38	0.141	4.25	2.68	3.16	2.91	0.59	0.42	0.04	0.021	2.08	100.0						
w106728	0.005	0.018	0.010	51.40	15.20	13.20	0.221	5.64	8.16	2.90	0.97	1.15	0.11	0.02	0.049	1.30	100.4						
w106729	0.006	0.020	0.017	47.93	15.05	12.38	0.231	5.83	12.67	0.75	2.55	0.83	0.06	0.05	0.045	1.54	99.99						
9096																		0.3	2.29	85.2	85.9	< 20	28.2
9097																		< 0.1	4.41	51.9	0.9	< 20	20.3
9098																		0.1	0.44	1.8	0.8	< 20	7.4
0606																		0.1	1.35	< 0.5	2.1	< 20	52.9

## Results

## Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0101	0.1	0.20	0.1	4.0	37	9.4	2.29	7	0.09	0.04	9	0.19	105	1.1	0.025	12.6	0.028	8.5	< 1	< 0.1	3.3	1.1	13
0102	0.1	0.31	< 0.1	7.1	41	12.0	2.43	7	0.12	0.04	13	0.51	205	1.3	0.029	17.1	0.032	7.3	< 1	< 0.1	4.0	1.3	15
0103	0.2	0.27	< 0.1	6.7	29	17.1	2.61	7	0.06	0.09	13	0.41	178	1.3	0.025	14.1	0.031	7.1	< 1	< 0.1	3.6	0.9	17
0104	0.2	0.35	0.2	5.8	30	13.7	2.32	6	0.08	0.05	9	0.36	191	0.8	0.024	14.6	0.034	7.7	< 1	< 0.1	3.3	0.9	17
0105	0.2	0.45	0.3	11.3	32	24.7	3.09	8	0.03	0.06	8	0.40	296	1.3	0.023	13.3	0.019	9.0	< 1	0.1	2.8	0.8	19
0106	0.2	0.26	0.3	5.3	32	24.5	1.98	6	0.06	0.05	13	0.27	144	1.6	0.025	15.6	0.020	13.1	< 1	< 0.1	4.5	0.8	16
0107	0.2	0.46	0.3	9.4	39	32.4	3.24	8	0.07	0.06	9	0.47	285	1.3	0.028	21.9	0.058	17.4	< 1	< 0.1	3.1	1.3	23
0108	0.1	0.23	0.2	11.1	35	57.0	2.51	5	0.11	0.05	19	0.24	190	2.3	0.026	15.3	0.044	6.2	< 1	< 0.1	4.1	1.1	14
0109	0.1	0.22	0.3	5.3	36	14.0	3.18	6	0.14	0.04	7	0.23	205	1.2	0.021	9.6	0.043	5.5	< 1	< 0.1	3.7	1.3	13
0110	0.1	0.19	< 0.1	2.9	25	6.5	2.27	7	0.05	0.03	8	0.12	88	1.4	0.020	5.8	0.014	6.3	< 1	< 0.1	2.6	0.7	14
0111	0.2	0.18	0.3	3.8	29	5.6	2.41	7	0.12	0.05	8	0.23	132	1.2	0.021	9.7	0.048	9.3	< 1	0.1	2.7	1.3	13
0201	0.2	0.17	< 0.1	4.6	33	3.9	2.71	8	0.13	0.05	8	0.18	89	1.3	0.025	12.6	0.028	8.3	< 1	< 0.1	3.0	1.0	13
0202	0.1	0.19	< 0.1	4.1	29	8.0	2.14	5	0.10	0.04	8	0.27	136	1.1	0.019	9.9	0.049	8.6	< 1	0.1	2.4	1.1	11
0203	0.2	0.46	0.2	6.5	33	10.4	3.68	9	0.05	0.05	5	0.40	211	1.2	0.034	13.1	0.030	10.0	< 1	0.2	4.8	0.7	20
0204	0.2	0.22	0.2	4.7	39	9.7	2.74	6	0.08	0.04	6	0.27	129	0.9	0.021	12.9	0.031	6.9	< 1	0.1	3.3	1.0	13
0205	0.2	0.25	< 0.1	5.8	31	9.4	2.62	7	0.06	0.05	10	0.24	133	0.8	0.022	12.9	0.039	8.0	< 1	< 0.1	2.8	0.9	14
0206	0.2	0.26	0.1	29.3	37	50.3	1.90	5	0.08	0.06	22	0.30	938	1.9	0.024	20.4	0.048	10.2	< 1	< 0.1	2.9	1.0	15
0207	0.2	0.27	0.2	7.3	33	20.6	2.46	6	0.07	0.05	8	0.31	157	1.0	0.023	14.3	0.032	8.4	< 1	< 0.1	3.2	1.0	15
0208	0.2	0.24	0.1	6.1	27	15.4	1.21	6	0.08	0.06	14	0.38	126	0.7	0.020	14.3	0.029	14.6	< 1	< 0.1	2.1	0.9	14
0209	0.2	0.31	< 0.1	4.5	26	4.6	2.28	8	0.04	0.07	10	0.24	282	0.5	0.020	8.7	0.052	7.6	< 1	< 0.1	2.2	0.7	20
0210	0.1	0.24	0.1	4.7	30	3.0	2.07	6	0.06	0.05	10	0.24	119	0.7	0.022	10.6	0.051	6.9	< 1	< 0.1	3.2	0.8	13
0301	0.1	0.19	< 0.1	1.2	17	1.7	1.16	6	0.03	0.04	12	0.09	87	1.0	0.017	3.0	0.012	8.0	< 1	< 0.1	1.9	< 0.5	17
0302	0.1	0.37	0.1	6.7	23	14.0	1.81	4	0.03	0.05	7	0.30	375	0.6	0.028	12.0	0.043	3.9	< 1	< 0.1	2.6	0.6	18
0303	0.2	0.16	0.2	3.0	37	7.9	2.69	8	0.08	0.05	8	0.17	78	1.1	0.019	10.7	0.036	9.3	< 1	< 0.1	2.5	1.1	13
0304	0.2	0.27	0.3	7.2	38	26.8	2.84	6	0.07	0.05	7	0.34	158	1.5	0.021	18.9	0.026	7.7	< 1	0.1	3.1	0.9	15
0305	0.2	0.52	0.1	9.7	32	44.9	1.85	4	0.03	0.05	11	0.46	383	0.4	0.040	21.1	0.043	5.2	< 1	< 0.1	3.1	< 0.5	20
0306	< 0.1	0.31	< 0.1	8.0	27	29.9	1.81	5	0.04	0.05	13	0.30	192	0.8	0.031	20.8	0.040	4.2	< 1	< 0.1	3.0	0.7	18
0307	0.2	0.39	0.2	19.3	37	53.6	2.91	6	0.05	0.09	18	0.68	1110	1.1	0.031	25.9	0.039	8.2	< 1	< 0.1	3.5	0.7	24
0308	0.2	0.24	< 0.1	2.3	15	1.8	1.23	7	0.02	0.08	3	0.19	101	0.8	0.015	5.0	0.012	5.4	< 1	< 0.1	1.9	0.6	23
0309	0.2	0.31	0.3	5.5	28	12.5	2.87	8	0.07	0.05	6	0.37	166	0.9	0.025	11.4	0.022	8.7	< 1	0.1	2.8	0.8	17
0401	0.2	0.20	< 0.1	3.6	28	8.6	2.89	9	0.07	0.06	13	0.18	98	1.2	0.019	8.4	0.043	8.4	< 1	< 0.1	2.4	1.0	14
0402	0.2	0.24	0.3	7.3	134	15.9	2.52	8	0.10	0.15	14	0.62	197	1.2	0.020	29.9	0.052	14.0	< 1	0.1	2.8	1.1	17
0403	0.3	0.14	< 0.1	1.8	39	8.9	6.26	19	0.07	0.06	8	0.14	81	2.4	0.015	4.4	0.037	17.1	< 1	0.3	2.8	1.1	12
0404	0.2	0.30	< 0.1	6.4	33	19.6	2.28	8	0.06	0.04	7	0.30	155	1.0	0.030	13.2	0.016	7.1	< 1	< 0.1	4.5	0.7	15
0405	0.2	0.23	0.2	6.4	34	19.3	3.13	6	0.12	0.04	7	0.34	188	1.2	0.026	13.8	0.081	6.0	< 1	< 0.1	3.1	1.2	15
0406	1.2	0.25	0.1	5.0	43	4.6	2.91	11	0.03	0.09	7	0.37	145	2.4	0.020	14.8	0.041	10.5	< 1	0.1	2.3	0.6	30
0407	0.5	0.30	< 0.1	5.6	44	7.6	2.95	8	0.04	0.05	8	0.30	129	1.1	0.021	16.5	0.042	8.7	< 1	< 0.1	2.7	0.9	27
0501	0.6	0.23	< 0.1	3.1	41	6.7	2.28	7	0.06	0.04	9	0.23	97	1.1	0.017	10.9	0.032	9.8	< 1	0.1	1.9	0.8	31
0502	0.3	0.25	< 0.1	5.7	38	3.5	2.43	6	0.08	0.05	11	0.26	178	0.9	0.020	13.8	0.062	6.7	< 1	0.1	2.1	1.0	20
0503	0.4	0.35	0.1	7.1	47	15.4	2.45	7	0.07	0.05	11	0.40	200	0.8	0.021	18.2	0.094	11.4	< 1	0.1	2.5	0.6	25
0504	0.4	0.18	< 0.1	1.6	20	1.2	1.37	8	0.04	0.04	7	0.10	81	1.2	0.014	4.3	0.011	8.3	< 1	< 0.1	1.6	0.6	21
0505	0.2	0.22	0.3	8.8	44	21.7	4.91	10	0.14	0.10	7	0.56	397	2.1	0.017	15.5	0.077	12.0	< 1	0.2	3.4	1.1	22

Results

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0506	1.0	0.16	0.2	4.7	36	7.0	3.69	10	0.11	0.08	8	0.42	181	2.6	0.019	12.0	0.034	17.8	<1	0.2	2.4	1.1	12
0507	0.2	0.20	0.2	3.3	43	20.2	2.79	8	0.09	0.05	9	0.25	91	1.6	0.022	12.2	0.034	29.6	<1	0.1	3.2	1.1	12
0601	1.0	0.29	0.2	4.0	38	6.5	2.60	9	0.04	0.06	14	0.24	123	1.5	0.020	10.9	0.038	13.4	<1	0.1	2.5	0.8	28
0602	0.4	0.33	0.3	8.3	81	14.2	3.41	9	0.09	0.21	20	0.81	297	1.3	0.019	33.6	0.106	10.9	<1	0.1	2.9	1.0	30
0603	0.5	0.38	0.1	7.3	48	19.4	3.19	8	0.06	0.05	11	0.48	220	0.8	0.022	18.6	0.068	9.0	<1	<0.1	2.7	0.8	29
0604	0.4	0.24	0.2	4.0	35	5.9	2.78	10	0.06	0.06	12	0.24	130	1.0	0.018	13.0	0.068	8.9	<1	<0.1	2.2	0.8	19
0605	0.3	0.50	<0.1	7.8	91	5.4	3.33	9	0.04	0.22	18	1.04	260	0.9	0.021	47.2	0.125	6.8	<1	0.1	2.9	0.6	34
0801	0.4	0.26	0.2	4.2	38	6.6	2.98	10	0.06	0.06	12	0.26	134	1.0	0.018	13.9	0.071	9.2	<1	0.1	2.3	0.8	20
0802	0.3	0.26	<0.1	6.2	38	3.7	2.54	7	0.08	0.05	11	0.29	183	0.9	0.021	13.9	0.064	6.9	<1	0.1	1.9	0.9	20
w106719	3.7	0.69	3.1	13.2	87	1460	2.52	7	0.02	0.81	9	0.91	366	25.4	0.164	26.9	0.028	141	<1	0.1	5.0	1.1	45
w106720	0.4	1.12	0.1	10.6	13	1170	5.42	12	0.01	0.36	21	1.84	966	0.8	0.094	18.4	0.158	17.2	<1	<0.1	7.7	<0.5	20
w106721	0.5	0.39	<0.1	9.4	25	17.9	2.64	13	<0.01	0.67	7	1.13	368	0.4	0.248	14.7	0.036	4.7	<1	<0.1	3.5	<0.5	30
w106722	0.3	0.91	<0.1	9.4	66	15.7	3.77	11	<0.01	1.65	27	1.49	530	0.7	0.163	13.4	0.095	5.9	<1	0.1	8.1	<0.5	53
w106723	0.1	0.71	<0.1	8.4	28	10.5	2.00	9	<0.01	1.05	31	1.05	221	0.5	0.160	23.6	0.082	3.3	<1	0.1	3.0	<0.5	80
w106724	1.2	0.23	0.1	16.5	27	26.2	3.24	9	0.01	0.85	13	0.97	211	20.0	0.188	11.1	0.046	101	<1	<0.1	3.6	<0.5	17
w106725	<0.1	0.11	<0.1	1.5	7	6.0	1.26	6	<0.01	0.66	8	0.28	177	0.4	0.062	0.8	0.019	2.4	<1	<0.1	0.4	<0.5	14
w106726	<0.1	0.23	<0.1	6.2	7	12.0	2.70	8	<0.01	0.11	16	0.74	522	0.5	0.135	5.7	0.022	6.7	<1	<0.1	2.6	<0.5	24
w106727	0.6	1.19	1.1	18.1	146	38.0	3.95	13	<0.01	1.35	54	2.35	1000	18.4	0.092	86.9	0.196	522	<1	0.2	9.6	<0.5	41
w106728	0.2	2.52	<0.1	32.9	58	92.7	5.82	9	0.02	0.56	9	2.24	1100	0.6	0.306	67.6	0.050	1.9	<1	<0.1	17.7	<0.5	25
w106719																							
w106720																							
w106721																							
w106722																							
w106723																							
w106724																							
w106725																							
w106726																							
w106727																							
w106728																							
w106729																							
9096	0.2	3.30	<0.1	44.2	49	74.0	8.80	9	0.06	0.12	2	1.93	1940	2.3	0.036	46.4	0.060	2.9	1	0.9	23.6	0.7	45
9097	<0.1	5.02	0.2	35.5	247	101	5.40	11	0.02	0.04	2	4.39	1240	0.3	0.054	78.2	0.018	0.2	<1	0.3	29.2	<0.5	44
9098	0.2	0.29	<0.1	16.4	28	36.9	4.38	2	<0.01	0.02	3	0.24	620	1.9	0.012	52.3	0.016	2.4	3	0.2	0.6	0.9	23
0606	0.6	0.31	0.1	5.5	64	10.1	2.59	10	0.04	0.14	11	0.48	217	2.0	0.022	19.0	0.033	10.1	<1	<0.1	2.5	0.5	52

## Results

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0101	< 0.2	2.9	0.136	< 0.1	46	0.3	67
0102	< 0.2	1.9	0.201	< 0.1	44	0.8	67
0103	< 0.2	2.4	0.189	< 0.1	55	0.6	90
0104	< 0.2	1.8	0.173	< 0.1	49	0.6	144
0105	< 0.2	1.7	0.263	< 0.1	79	0.8	274
0106	< 0.2	4.1	0.154	< 0.1	46	0.3	83
0107	< 0.2	0.5	0.157	< 0.1	50	0.5	175
0108	< 0.2	1.6	0.106	0.2	46	0.4	94
0109	< 0.2	1.0	0.166	< 0.1	57	0.4	62
0110	< 0.2	2.3	0.180	< 0.1	62	0.3	10
0111	< 0.2	1.4	0.129	< 0.1	47	0.2	58
0201	< 0.2	2.5	0.152	< 0.1	55	0.2	40
0202	< 0.2	0.8	0.100	< 0.1	37	0.1	37
0203	< 0.2	1.4	0.420	< 0.1	151	0.3	47
0204	< 0.2	2.5	0.180	< 0.1	58	0.5	34
0205	< 0.2	1.7	0.155	< 0.1	56	0.3	40
0206	< 0.2	0.8	0.095	0.2	38	0.3	83
0207	< 0.2	1.7	0.175	< 0.1	55	0.3	66
0208	< 0.2	0.4	0.118	0.1	33	0.3	63
0209	< 0.2	1.6	0.151	< 0.1	48	0.2	96
0210	< 0.2	2.0	0.121	< 0.1	40	0.2	81
0301	< 0.2	3.0	0.136	< 0.1	39	< 0.1	21
0302	< 0.2	1.2	0.174	< 0.1	46	0.2	50
0303	< 0.2	4.3	0.157	< 0.1	52	0.2	28
0304	< 0.2	2.3	0.175	< 0.1	55	0.7	34
0305	< 0.2	2.2	0.175	< 0.1	53	2.0	68
0306	< 0.2	2.1	0.114	< 0.1	34	0.1	68
0307	< 0.2	1.7	0.194	0.1	56	0.3	95
0308	< 0.2	1.0	0.224	< 0.1	47	0.2	21
0309	< 0.2	1.5	0.262	< 0.1	76	0.6	41
0401	< 0.2	1.5	0.143	0.1	45	0.1	40
0402	< 0.2	1.7	0.153	0.2	53	0.3	91
0403	< 0.2	2.8	0.342	< 0.1	165	0.1	19
0404	< 0.2	2.4	0.265	< 0.1	78	0.1	20
0405	< 0.2	1.3	0.132	< 0.1	59	0.2	63
0406	< 0.2	2.5	0.265	0.1	82	0.2	33
0407	< 0.2	2.7	0.217	< 0.1	67	0.2	30
0501	< 0.2	3.3	0.237	< 0.1	50	0.2	18
0502	< 0.2	0.8	0.118	< 0.1	44	0.2	66
0503	< 0.2	2.4	0.167	0.1	54	0.2	45
0504	< 0.2	2.2	0.212	< 0.1	62	0.2	9
0505	< 0.2	1.8	0.291	0.1	94	0.1	100

Results

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
0506	< 0.2	2.0	0.172	0.1	48	0.2	195
0507	< 0.2	2.1	0.159	0.1	71	0.1	54
0601	< 0.2	2.8	0.227	0.1	59	0.2	82
0602	< 0.2	2.5	0.206	0.2	57	0.1	62
0603	< 0.2	1.1	0.196	< 0.1	66	0.2	43
0604	< 0.2	1.0	0.145	0.1	53	0.2	79
0605	< 0.2	4.0	0.242	0.1	88	0.2	113
0801	< 0.2	1.1	0.144	0.1	57	0.1	84
0802	< 0.2	0.7	0.120	< 0.1	44	0.2	64
w106719	< 0.2	1.8	0.187	0.3	50	17.4	980
w106720	< 0.2	3.1	0.378	< 0.1	63	1.2	102
w106721	< 0.2	1.2	0.157	0.2	36	0.3	67
w106722	< 0.2	3.8	0.455	0.3	92	0.5	61
w106723	< 0.2	3.2	0.307	0.2	43	0.2	70
w106724	< 0.2	2.5	0.190	0.3	40	0.1	63
w106725	< 0.2	3.5	0.019	0.2	< 2	0.1	12
w106726	< 0.2	3.4	0.053	< 0.1	36	0.2	32
w106727	< 0.2	8.7	0.290	1.1	104	0.5	390
w106728	< 0.2	0.9	0.445	0.1	161	0.2	70
w106719							
w106720							
w106721							
w106722							
w106723							
w106724							
w106725							
w106726							
w106727							
w106728							
w106729							
9096	< 0.2	< 0.1	0.003	0.1	202	< 0.1	85
9097	< 0.2	0.2	0.007	< 0.1	241	< 0.1	171
9098	< 0.2	0.2	0.007	< 0.1	9	0.2	23
0606	< 0.2	2.6	0.303	0.2	74	0.2	45

QC

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Co3O4	CuO	NO	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	Cr2O3	V2O5	Ag	Al	As	Au	B	Ba	Bi	Ca
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	%	ppm	ppb	ppm	ppm	ppm	%
Lower Limit	0.005	0.005	0.003	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.003	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01
Method Code	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	FUS-XRF	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas																32.4	0.38	432	> 1000	30	198	1440	0.98
GXR-1 Cert																31.0	3.52	427	3300	15.0	750	1380	0.960
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas																3.7	3.06	104	462	< 20	30.4	19.3	0.97
GXR-4 Cert																4.0	7.20	98.0	470	4.50	1640	19.0	1.01
AN-G Meas				46.54	29.84	3.33	0.043	1.81	16.06	1.67	0.14	0.23	0.01	0.02	0.013								
AN-G Cert				46.30	29.8	3.36	0.040	1.79	15.90	1.63	0.13	0.22	0.01	0.01	0.012								
GXR-6 Meas																0.3	6.82	211	70.5	< 20	901	0.2	0.15
GXR-6 Cert																1.30	17.7	330	95.0	9.80	1300	0.290	0.180
FK-N Meas				64.97	18.90	0.07	0.003		0.12	2.59	13.01	0.01	0.01										
FK-N Cert				65.0	18.6	0.0900	0.00500		0.110	2.58	12.8	0.0200	0.0240										
AC-E Meas				71.60	14.96	2.58	0.058	0.02	0.38	6.73	4.62	0.11											
AC-E Cert				70.35	14.70	2.56	0.058	0.03	0.34	6.54	4.49	0.11											
OREAS 13P Meas	0.011	0.330	0.304																				
OREAS 13P Cert	0.0120	0.313	0.293																				
NCS DC73304 (GBW 07106) Meas				91.14	3.54	3.25		0.05	0.27	0.08	0.65		0.22										
NCS DC73304 (GBW 07106) Cert				90.36	3.52	3.22		0.082	0.30	0.061	0.65		0.222										
OREAS 45d (Aqua Regia) Meas																	5.78	3.3	17.9		75.2	0.3	0.09
OREAS 45d (Aqua Regia) Cert																	4.860	6.50	21		80	0.30	0.09
SdAR-M2 (U.S.G.S.) Meas																					106	1.0	
SdAR-M2 (U.S.G.S.) Cert																					990	1.05	
0102 Orig																< 0.1	3.70	0.6	4.2	< 20	34.5	0.1	0.31
0102 Dup																< 0.1	3.64	< 0.5	2.9	< 20	36.5	0.1	0.31
0401 Orig																< 0.1	1.76	1.0	2.2	< 20	38.2	0.2	0.19
0401 Dup																< 0.1	1.75	< 0.5	2.4	< 20	39.6	0.2	0.21
0402 Orig																0.2	2.25	1.1	3.2	< 20	47.0	0.2	0.25
0402 Dup																0.2	2.25	< 0.5	1.6	< 20	47.8	0.2	0.24
w106721 Orig																< 0.1	2.04	< 0.5	1.1	< 20	230	0.5	0.39
w106721 Dup																< 0.1	2.02	< 0.5	1.8	< 20	233	0.5	0.40
Method Blank																< 0.1	< 0.01	< 0.5	1.1	< 20	7.6	< 0.1	< 0.01
Method Blank																< 0.1	< 0.01	< 0.5	1.1	< 20	7.6	< 0.1	< 0.01
Method Blank	< 0.005	< 0.005	< 0.003	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.003								



Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001	0.1	1	0.1	0.1	0.5	1	0.2	0.1	
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	
GXR-1 Meas	2.7	8.3	11	1280	26.9	5	3.59	0.04	6	0.15	982	19.1	0.046	45.1	0.050	731	< 1	90.7	1.5	15.6	201	14.1	1.6	
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	7.50	0.217	852	18.0	0.0520	41.0	0.0650	730	0.257	122	1.58	16.6	275	13.0	2.44	
DH-1a Meas																							> 200	
DH-1a Cert																								910
GXR-4 Meas	0.2	15.0	68	6950	3.24	12	0.12	2.06	53	1.79	168	335	0.155	45.4	0.143	47.9	2	3.7	8.1	5.5	74	0.9	18.0	
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	64.5	1.66	155	310	0.564	42.0	0.120	52.0	1.77	4.80	7.70	5.60	221	0.970	22.5	
AN-G Meas																								
AN-G Cert																								
GXR-6 Meas	< 0.1	12.1	77	62.1	4.93	16	0.05	1.13	11	0.40	1010	1.7	0.072	22.8	0.034	96.9	< 1	2.1	23.4	< 0.5	31	< 0.2	3.9	
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	13.9	0.809	1010	2.40	0.104	27.0	0.0350	101	0.0160	3.60	27.6	0.940	35.0	0.0180	5.30	
FK-N Meas																								
FK-N Cert																								
AC-E Meas																								
AC-E Cert																								
OREAS 13P Meas																								
OREAS 13P Cert																								
NCS DC73304 (GBW 07106) Meas																								
NCS DC73304 (GBW 07106) Cert																								
OREAS45d (Aqua Regia) Meas		24.7	459	332	12.6	16		0.12	11	0.17	408		0.039	202	0.032	16.4	< 1		42.3		12		10.1	
OREAS45d (Aqua Regia) Cert		26.2	467	345.0	13.650	17.9		0.097	9.960	0.144	400.000		0.031	176.0	0.035	17.00	0.045		41.50		11.0		11.3	
SdAR-M2 (U.S.G.S.) Meas	4.5	12.5	12	245		4	1.10		41			13.1		48.0		755			2.4		20		12.1	
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.00	00	17.6	1.44		46.6			13.3		48.8		808			4.1		144		14.2	
0102 Orig	0.1	7.1	41	12.0	2.42	7	0.11	0.04	13	0.51	202	1.3	0.028	16.8	0.031	7.4	< 1	0.1	3.9	1.3	15	< 0.2	1.9	
0102 Dup	< 0.1	7.1	41	12.0	2.44	7	0.14	0.04	13	0.52	208	1.4	0.029	17.3	0.032	7.3	< 1	< 0.1	4.2	1.4	15	< 0.2	1.9	
0401 Orig	< 0.1	3.5	27	8.4	2.86	9	0.07	0.06	13	0.17	98	1.1	0.019	8.2	0.042	8.3	< 1	< 0.1	2.3	1.0	14	< 0.2	1.5	
0401 Dup	< 0.1	3.7	28	8.7	2.91	9	0.07	0.06	14	0.18	98	1.2	0.019	8.5	0.043	8.6	< 1	< 0.1	2.4	1.0	15	< 0.2	1.6	
0402 Orig	0.3	7.4	133	16.6	2.56	8	0.10	0.15	14	0.62	197	1.3	0.020	30.2	0.054	14.1	< 1	0.1	2.9	1.2	17	< 0.2	1.8	
0402 Dup	0.2	7.2	134	15.3	2.47	8	0.09	0.15	14	0.62	196	1.2	0.020	29.5	0.050	13.9	< 1	0.1	2.7	1.0	16	< 0.2	1.6	
w106721 Orig	< 0.1	9.3	25	17.7	2.65	13	< 0.01	0.66	7	1.14	366	0.4	0.249	14.4	0.036	4.7	< 1	< 0.1	3.5	< 0.5	30	< 0.2	1.2	
w106721 Dup	< 0.1	9.5	25	18.2	2.63	14	0.02	0.69	7	1.11	369	0.4	0.247	14.9	0.036	4.7	< 1	< 0.1	3.5	< 0.5	30	< 0.2	1.2	
Method Blank	< 0.1	< 0.1	2	< 0.1	< 0.01	< 1	< 0.01	< 0.01	< 1	< 0.01	< 1	< 0.1	0.009	< 0.1	< 0.001	< 0.1	< 1	< 0.1	0.1	< 0.5	< 1	< 0.2	< 0.1	
Method Blank	< 0.1	< 0.1	2	< 0.1	< 0.01	< 1	0.01	< 0.01	< 1	< 0.01	< 1	< 0.1	0.009	< 0.1	< 0.001	< 0.1	< 1	< 0.1	0.2	0.6	< 1	< 0.2	< 0.1	
Method Blank																								

QC

Activation Laboratories Ltd.

Report: A17-11486

Analyte Symbol	Ti	Tl	V	W	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.1	2	0.1	1
Method Code	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-1 Meas	0.007	0.4	89	148	848
GXR-1 Cert	0.036	0.390	80.0	164	760
DH-1a Meas					
DH-1a Cert					
GXR-4 Meas	0.159	2.8	92	11.6	69
GXR-4 Cert	0.29	3.20	87.0	30.8	73.0
AN-G Meas					
AN-G Cert					
GXR-6 Meas		1.8	162	< 0.1	108
GXR-6 Cert		2.20	186	1.90	118
FK-N Meas					
FK-N Cert					
AC-E Meas					
AC-E Cert					
OREAS 13P Meas					
OREAS 13P Cert					
NCS DC73304 (GSW 07106) Meas					
NCS DC73304 (GSW 07106) Cert					
OREAS 45# (Aqua Regia) Meas			185		28
OREAS 45# (Aqua Regia) Cert			201.0		30.6
SdAR-M2 (U.S.G.S.) Meas			19	1.5	770
SdAR-M2 (U.S.G.S.) Cert			25.2	2.8	760
0102 Orig	0.200	< 0.1	44	0.8	66
0102 Dup	0.201	< 0.1	44	0.8	68
0401 Orig	0.141	0.1	44	0.1	40
0401 Dup	0.145	0.1	45	0.1	41
0402 Orig	0.157	0.2	54	0.3	94
0402 Dup	0.148	0.1	52	0.3	88
w106721 Orig	0.158	0.2	37	0.3	66
w106721 Dup	0.155	0.2	35	0.2	69
Method Blank	< 0.001	< 0.1	< 2	< 0.1	< 1
Method Blank	< 0.001	< 0.1	< 2	0.2	< 1
Method Blank					

APPENDIX E  
Field Notes

Number	East	North	Depth	Color	Texture
0101	278953	5209713	40cm	dk brn	Sandy silt loam
0102	279033	5209702	50cm	vd brn	fill / 010
0103	279097	5209713	50cm	dk brn	fill / 022
0104	279169	5209702	40cm	dk brn	Sandy silt loam
0105	279252	5209713	30cm	rd brn	fill / 026
0106	279279	5209714	30cm	rd brn	clay / 029
0107	279408	5209706	20cm	black br	organic / 030
0108	279504	5209715	30cm	dk brn	fill / 034
0109	279579	5209710	20cm	rd brn	Sandy silt loam
0110	279690	5209702	20cm	brn	Sandy silt / 011
0111	279790	5209709	30cm	rd brn	Sandy / 041

Scale

Point	East	North	Notes
11019	278902E	5209895N	0.19 401m
11020			
11021			- drill road W/S $\approx$ 279072/5209716 on N side road average for low flows plastic v. l. / xtal diff. 7 with traces clay py + weak stringers
11024			- ok mafic vol once wide at 1m carb? weak fracture @ 110/102
11025			- ok S. $\approx$ 040 170E gray + qt spots 1/2 a grain clay
11027			- large ok on west side slope - massive mafic volcanic weak carb (carbonate) alteration between here & 028 mafic
028			- Volcanic etc along ridge N-S sed as of 025 Sed of 170/90
030			- higher up mafic vol - mafic vol
033			- ok mafic vol. N. / steep with block streaks / slickensides 140 / 70E

Return on line

Location \_\_\_\_\_

Project / Client \_\_\_\_\_

Date \_\_\_\_\_

note all old  $\rightarrow$  felsic

Location Bowle Lake

Project / Client JDX

Date Oct 2 / 2017

Scale \_\_\_\_\_

- 037 - felsic  $\rightarrow$  with some quartz  
epyt maltraz Beck 2
- 038 - var. gr. g. b (white?)
- 039 - felsic with some schist  
defined by some bio flakes  
mainly massive - 2.5' of  
epyt  $\rightarrow$  has some shaly
- 043 - felsic py.
- 045 - felsic
- 046 - 20m high cliff
- 047 - felsic with ss  $\rightarrow$  S = 010/90  
lots of patchy quartz  $\rightarrow$  shinglers  
some with calcite - may have  
made interbed on dyke @ 035/90  
 $\rightarrow$  well sorted felsic bed with bio  
spots S = 010/85°E

018/019  $\rightarrow$

Red on the line



Location Buckle Lake Date Oct 2/2017

Project / Client ISX

Scale \_\_\_\_\_

E	N	Depth	Color	Base
0201	279991	5209345	rd	(051)
0202	279990	5209332	brown	loam 052
0203	279993	5209327	brn	loam (058)
0204	279984	5209326	*	055
0205	279984	520977	brn	possibly 058
0206	279982	5209287	dk brn	net
0207				
0208	279977	5209244	brn	wet black
0209	279978	5209222	brn	soil 065
0210	279978	5209226	dk brn	all 067

Assessment # Geophysics  
 41004 SW00320011  
 41004 SW0033002A1  
 Lot # MR85-3  
 claim # 554687689

Location Buckle Lake Date Oct 2/2017

Project / Client ISX

Scale \_\_\_\_\_

053 - gravel dyke?
056 - small ok desire matc
close to bedrock
059 - large rounded ok wgr qb Abundant of fine grained ssine matrix vol.
brn @ 060 felsic schist with bio spots Schistosity S1= @ 170°/70° E Buck 3
061 - bio grt schist (felsic schist) Sch. poorly <u>Buck 9</u>
- has patchy rounded b6bs now <u>legonite</u>
068 = dip road
069 = main road 5:10
070 =
071 =

Date Oct 3, 2017

Location Buck Lake

Project/City TRX

State

WP 012 - hole left 7 way hole of 3' dia  
 used the hole for access to  
 bed = 5.05' - 005/90  
 very fine gravel w/ shale fill  
 of fine gravel - un-sorted  
 surface

075 - 2nd shaft of 2' dia  
 Si = 350/705  
 have used to find bed w/  
 shear test with 4 py

in place in stream bed not  
 cut by water of stream of black h

075 - 06 m. 1st 5' - 500/650  
 076 - 06 m. 1st 5' - 300/700  
 077 - 06 m. 1st 5' - massive  
 078 - 06 m. 1st 5' - 1st half has layers  
 of plugging w/ 1st 1/2  
 of hole = 170/700/650

081 - 06 m. 1st 5' - massive  
 082 - 06 m. 1st 5' - 160/750 and  
 1st 1/2 massive  
 083 - 06 m. 1st 5' - 160/750 - massive  
 084 - 06 m. 1st 5' - 160/750 - massive  
 085 - 06 m. 1st 5' - 160/750 - massive

Date Oct 3, 2017

Location Buck Lake

Project/City TRX

trans to start of line 075

0401	27974	520533	20	delta	075
0402	27990	520522	20	delta	076
0403	27992	520532	25	delta	079
0404	27996	520530	30	delta	081
0405	27978	520546	30	delta	083
0406	27986	520536	15	delta	085
0407	27978	520509	30	delta	086



Location Buck Lake

Date Oct 3/2017

Project / Client JAX

Traverse to	Line 035	360° for 100m
0301	279833	5208929
0302	279746	5208972
0303	279632	5208953
0304	279541	5208941
0305	279428	5208973
0306	279319	5208971
0307	279182	5208980
0308	279073	5208974
0309	278918	5208976

Location Buck Lake

Date Oct 3/2017

Project / Client JAX

Scale	Notes
088	large ok cross line 6-10m high conformable to 089
093	ote note with weak strike basite, @ 050/75° E with faces looks like matrix stuff westward @ 005/85° E
096	long ote; matrix massive with con t on fractures 10 py visible
097	long cliff (hang w) of well banded under 1005 stuff with bioalter along "layers" (Shang) (Buck 8)
098	in places very siliceous ote is over 5m long diff @ 300° cliff continuous to north of east 50m
105	ote - magnetic gabbrro
107	ote - magnetic gabbrro felsic stuff banded @ 010/90° has qtz veins
108	ote - matrix w gr not magnetic

Ret on line



Dravense	do stand	line of	Slope to W
0601 279611	5207877	0.30m	46 brn
0602 279717	5207869	0.20m	46 brn
0603 279863	5207860	30	46 brn
0604 279984	5207847	35	46 brn
0601 duplicate			
0605 278003	5207808	30	46 brn fill

WPA#	114	ok	ask	diff S
WPA# 113	ok	diff	with	went
114	-	ok	with	diff S
				330/70E
				very silty
				100 layers
				varia 60
				115
				121
				122
				123
				124
				125
				128
				129

Scale

330/70E

very silty

100 layers

varia 60

115

121

122

123

124

125

128

129

ask diff S

diff with went cash

330/70E

very silty

100 layers

varia 60

massive ag

non-magnetic

long of 1/2

silty

330/75E

30m long

felsic volcanic massive

20m long N/S

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Location Buck Lake Date Oct 4/2017

Project / Client J&X

	Scale
<u>Buck 9</u>	has mostly beside also off to the side
130 -	OTK dark cut d. turf - no labels
	Solvent bio a150 bio Sbeakes
	Peru. cl. / S <sub>1</sub> - 005/10.0
132 -	Swamp of felagic turf S <sub>1</sub> -S <sub>0</sub> @ 350/70PE
135 -	OTK old in mafic. <u>Buck 10</u> has visible blands dr py
137 -	OTK mafic & trace py
139 -	OTK mafic / granodiorite
140 -	OTK granodiorite

Return to Buck

Location \_\_\_\_\_ Date \_\_\_\_\_

Project / Client \_\_\_\_\_



Location Bowle Lake

Date Oct 11 2017

Project / Client JDSX

Scale

WP 141	- magnetic gabbro
WT 145	- large of magnetic gabbro
WP 147	- ortho north to mainly magnetic mag. notes
WP 151	- small of felsic massive cut by few veins to veinlets
152	- felsic duff standing N-S cut by ortho veinlets along S, and across - shows differential displacement of X cutting veinlets by S
153	- massive fig. mafic
154	- dark felsic duff <del>at</del> S1 345 / 75° E <u>Buck 11?</u>
155	- felsic duff

Total ~~26~~ 63 exposures  
Noted.

Alt. in ft.

Location Bowle Lake

Date Oct 11 2017

Project / Client JDS Exploration

Traverse to line 05	
0501	280119 5208211 30m dk brn flat 115
0502	280037 5208271 25m dk brn slope E 141
0502	duplicate 30 dk brn <del>Slope 146</del>
0503	279117 5208271 30 dk brn Slope 146
0504	279190 5208252 30 brn Slope 148
0505	279694 5208240 70 brn flat 119
0506	279598 5208223 70 dk brn flat 150
0507	279525 5208233 150

fine bedded (imp. rca)