

TYPE OF REPORT [type of survey(s)]: Soil Geochemistry

TOTAL COST: \$10,246.00

AUTHOR(S): David G Mark

SIGNATURE(S): *David Mark*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): YEAR OF WORK: 2022

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): SOW #5978370 dated March 28, 2023

PROPERTY NAME: Peacock

CLAIM NAME(S) (on which the work was done):

1058807

COMMODITIES SOUGHT: Copper, Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092I SE 055, 092I SE 123-125, 092I SE 132

MINING DIVISION: Nicola

NTS/BCGS: 92I/02 /// 092I.017, 092I.018, 092I.027, 092I.028

LATITUDE: 50 ° 12 '16.3 " LONGITUDE: 120 ° 38 '01.7 " (at centre of work)

OWNER(S):

1) Lionheart Exploration Inc.

2)

MAILING ADDRESS:

1000 - 355 Burrard Street

Vancouver, BC, V6C 2G8

OPERATOR(S) [who paid for the work]:

1) Lionheart Exploration Inc.

2)

MAILING ADDRESS:

1000 - 355 Burrard Street

Vancouver, BC, V6C 2G8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

The central part of the property is underlain by northwest trending medium to coarse grained chlorite-sericite altered,

foliated diorite and granodiorite up to 1000 metres thick. The diorite hosts a series of multiple and stacked quartz

and quartz-feldspar veins and veinlets. North of the diorite is an equi-granular medium to coarse grained granite which in part

has intruded the altered diorite. Both rock types make up part of the Nicola Batholith.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2460, 2970, 3936, 4409, 6119, 6441, 6742,

7488, 8036, 12386, 15318, 16625, 18583, 22900, 24600, 25283, 28271, 32465, 33375, 35153, 35848, 39647, 39539

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil 29		1058807	\$10,246.00
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	\$10,246.00



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Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: MARK, DAVID GEORGE (116838) **Submitter:** MARK, DAVID GEORGE (116838)
Recorded: 2023/MAR/28 **Effective:** 2023/MAR/28
D/E Date: 2023/MAR/28

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5978370
Work Type: Technical Work
Technical Items: Geochemical
Work Start Date: 2022/OCT/15
Work Stop Date: 2022/OCT/21
Total Value of Work: \$ 10246.00
Mine Permit No:

Summary of the work value:

Title Number	Claim Name	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub-mission Fee
1058807	PEACOCK	2018/FEB/24	2023/MAY/02	2023/NOV/02	184	1220.17	\$ 9226.48	\$ 0.00
1063801	CREEK	2018/OCT/15	2023/MAY/02	2023/NOV/02	184	103.41	\$ 546.59	\$ 0.00
1070420	PEACOCK EAST	2019/AUG/16	2023/MAY/02	2023/NOV/02	184	62.06	\$ 312.50	\$ 0.00
1075442	PEACOCK	2020/MAR/25	2023/MAY/02	2023/NOV/02	184	20.68	\$ 103.98	\$ 0.00

Financial Summary:

Total applied work value: \$ 10189.55

PAC name: lionheart exploration Inc.
Debited PAC amount: \$ 0.0
Credited PAC amount: \$ 56.45

Total Submission Fees: \$ 0.0

Total Paid: \$ 0.0

Please print this page for your records.

The event was successfully saved.

Click [here](#) to return to the Main Menu.

GEOCHEMISTRY REPORT
on an
MMI SOIL GEOCHEMISTRY SURVEY
WITHIN THE
PEACOCK PROPERTY
PEACOCK MOUNTAIN, MERRIT AREA
NICOLA MINING DIVISION, BRITISH COLUMBIA

LOCATED: 16 km northeast of the town of Merritt, BC
50° 12' North Latitude, and 120° 37' West Longitude
NTS: 92I/02
BCGS: 92I.017, '.018, '.027, '.028

WRITTEN FOR: **LIONHEART EXPLORATION INC.**
1000 – 355 Burrard Street
Vancouver, British Columbia

WRITTEN BY: David G. Mark, P.Geo.
GEOTRONICS CONSULTING INC.
132 Saddlehorn Drive
Kaleden, British Columbia, V0H 1K0

DATED: August 8, 2023

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

1	<i>SUMMARY</i>	<i>i</i>
2	<i>INTRODUCTION and GENERAL REMARKS</i>	<i>1</i>
3	<i>PROPERTY and OWNERSHIP</i>	<i>2</i>
4	<i>LOCATION AND ACCESS</i>	<i>2</i>
5	<i>PHYSIOGRAPHY</i>	<i>3</i>
6	<i>PREVIOUS WORK</i>	<i>3</i>
7	<i>GEOLOGY</i>	<i>6</i>
7.1	<i>Regional</i>	<i>6</i>
7.2	<i>Property Geology</i>	<i>7</i>
7.2.1	<i>Mineralization</i>	<i>8</i>
7.2.2	<i>Alteration</i>	<i>10</i>
7.2.3	<i>Structure</i>	<i>10</i>
8	<i>MMI SOIL SAMPLING</i>	<i>10</i>
8.1	<i>Sampling Procedure</i>	<i>10</i>
8.2	<i>Analytical Methods</i>	<i>11</i>
8.3	<i>Compilation of Data</i>	<i>11</i>
9	<i>DISCUSSION OF RESULTS</i>	<i>12</i>
10	<i>CONCLUSIONS</i>	<i>12</i>
11	<i>RECOMMENDATIONS</i>	<i>13</i>
12	<i>REFERENCES</i>	<i>14</i>
13	<i>GEOSCIENTIST’S CERTIFICATE</i>	<i>17</i>
14	<i>AFFIDAVIT OF EXPENSES</i>	<i>18</i>
15	<i>APPENDIX I – MMI GEOCHEMISTRY DATA</i>	<i>19</i>
16	<i>APPENDIX II – MMI HISTOGRAMS</i>	<i>20</i>
17	<i>APPENDIX III – MMI SURVEY COLOUR PLAN MAPS</i>	<i>21</i>

LIST OF ILLUSTRATIONS (at back of report)

<u>MAPS</u>		<u>FIG /MAP #</u>	<u>PAGE #</u>
<u>SUPPORT MAPS</u>			
BC Location Map (Index Map)		1	after 2
Regional Location Map		2	after 2
Claim Map (showing MMI grid)		3	after 2
Regional Geology Map		4	after 6
Geology Legend		4a	after 6
Property Geology Map		5	after 7
<u>MMI HISTOGRAMS</u>			
<u>Line</u>	<u>Copper, Silver, Gold, Molybdenum, Cadmium</u>	<u>Lead, Zinc, Nickel, Cobalt, Cerium, Uranium</u>	
4000 N	H1A	H1B	
4100 N	H2A	H2B	
<u>MMI PLAN MAPS</u>			
Sample Location		GC-01	
Silver		GC-02	
Gold		GC-03	
Cadmium		GC-04	
Cerium		GC-05	
Cobalt		GC-06	
Copper		GC-07	
Potassium		GC-08	
Lithium		GC-09	
Molybdenum		GC-10	
Nickel		GC-11	
Lead		GC-12	
Uranium		GC-13	
Zinc		GC-14	
<u>TABLES</u>			
<u>Name</u>		<u>Number</u>	<u>Page</u>
Peacock Property Claims		1	2
Peacock MMI Background Values		2	12

1 SUMMARY

The Peacock property is comprised of 4 contiguous mineral claims located approximately 16 km northeast of Merritt, B.C.

The property has been explored in the past by several individuals and companies; Mineral exploration has been conducted on the Peacock since the early part of the century. At least 3 small shafts and pits occur around the property. The area of the claims has been intermittently explored since the late 1920s, focusing mainly on developing the Turlight quartz-copper vein system, or discovering a similar deposit nearby. The Turlight reverted Crown Grant is surrounded by the Peacock claims.

The central part of the property is underlain by northwest trending medium to coarse grained chlorite-sericite altered, foliated diorite and granodiorite up to 1000 metres thick. The diorite hosts a series of multiple and stacked quartz and quartz-feldspar veins and veinlets.]

North of the diorite is an equigranular medium to coarse grained granite which in part has intruded the altered diorite. Both rock types make up part of the Nicola Batholith. The Nicola Batholith has intruded Nicola Group volcanic and sedimentary rocks (or their metamorphic equivalents) underlying the southern and eastern parts of the property.

There are (5) MinFile occurrences mapped within the perimeter of the claim group, including the past producing Turlight deposit which is reported as a Cu +/- Mo +/- Au hydrothermal vein showing. Previous exploration has identified two primary exploration target zones that indicate good potential for copper mineralization.

The current objective is to investigate the Peacock property for its bulk tonnage copper potential.

The MMI survey consisted of 29 samples that were picked up along 2 survey lines with a total survey length of 1,350 meters. The line spacing was 100 meters and the sampling interval, 50 meters. The purpose of the sampling was to determine the area for possible copper mineralization.

These samples were bagged and sent to SGS Laboratories in Burnaby, BC, for analysis where they were tested for 53 elements. The results for ten of these were divided by their respected mean background values to obtain a value called a response ratio. Two stacked histograms for each line were then made of the response ratios. Thirteen plan maps were also made, respectively for 13 elements using the laboratory results.

The MMI soil sampling revealed two copper anomalies of significant strength that correlate with anomalous silver values which suggests the occurrence of copper mineralization. It also showed a lithologic contact within the eastern part of the survey area between a basic rock-type to the west and an acidic rock-type to the east. In addition, within the basic rock-type to the west lithium anomalies correlate with cerium anomalies. This suggests the possibility of lithium mineralization occurring within pegmatite dykes.

It is recommended to continue the MMI soil sampling to be followed by IP and resistivity surveying.

GEOCHEMISTRY REPORT
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NICOLA MINING DIVISION, BRITISH COLUMBIA

2 INTRODUCTION and GENERAL REMARKS

This report discusses survey procedure, compilation of data, interpretation methods, and the results of MMI soil sampling that was carried out within the Peacock Property, which is located northeast of the town of Merritt within southern BC. The property is owned by Lionheart Exploration Inc of Vancouver, BC.

The MMI soil sampling was carried out by a Geotronics Consulting crew of two men under field supervision of Chris Delorme a mineral exploration technician during the period of October 15th to 21st, 2022. The amount of work consisted of 29 samples along two lines for a total survey distance of 1,350 meters.

The main purpose of exploration on this property is to locate porphyry copper style sulphide mineralization or some other type of bulk tonnage of copper mineralization.

The purpose of the MMI soil sampling is to look for mineralization directly. MMI stands for *mobile metal ions* and describes ions, which have moved into the weathering zone and are weakly or loosely attached to near surface soil particles. MMI™ uses patented sampling and testing techniques that are particularly useful in detecting mineralization at depth- in excess of 700 meters. The MMI procedure benefits the Property by not being affected by thick surficial cover such as glacial till, whereas standard soil sample techniques are affected by glacial drift. MMI is characterized as having a high signal to noise ratio and therefore can provide accurate drill targets. However mobile metal ions may also move along fault lines

and therefore could show the causative source to be laterally moved from where the actual source of mineralization is located.

3 PROPERTY and OWNERSHIP

The Peacock Property is a mineral exploration property that is comprised of 4 mineral claims covering a total area of 1,406 hectares as tabulated below and as shown on fig. 3.

TABLE 1 - PEACOCK MINERAL CLAIMS				
<u>Tenure Number</u>	<u>Issue Date</u>	<u>Claim Name</u>	<u>Good Until</u>	<u>Area (ha)</u>
1058807	2018/Feb/24	Peacock	2023/Nov/02	1,220.17
1063801	2018/Oct/15	Creek	2023/Nov/02	103.41
1070420	2019/Aug/16	Peacock East	2023/Nov/02	62.06
1075442	2020/Mar/25	Peacock	2023/Nov/02	20.68
TOTAL AREA				1,406.32

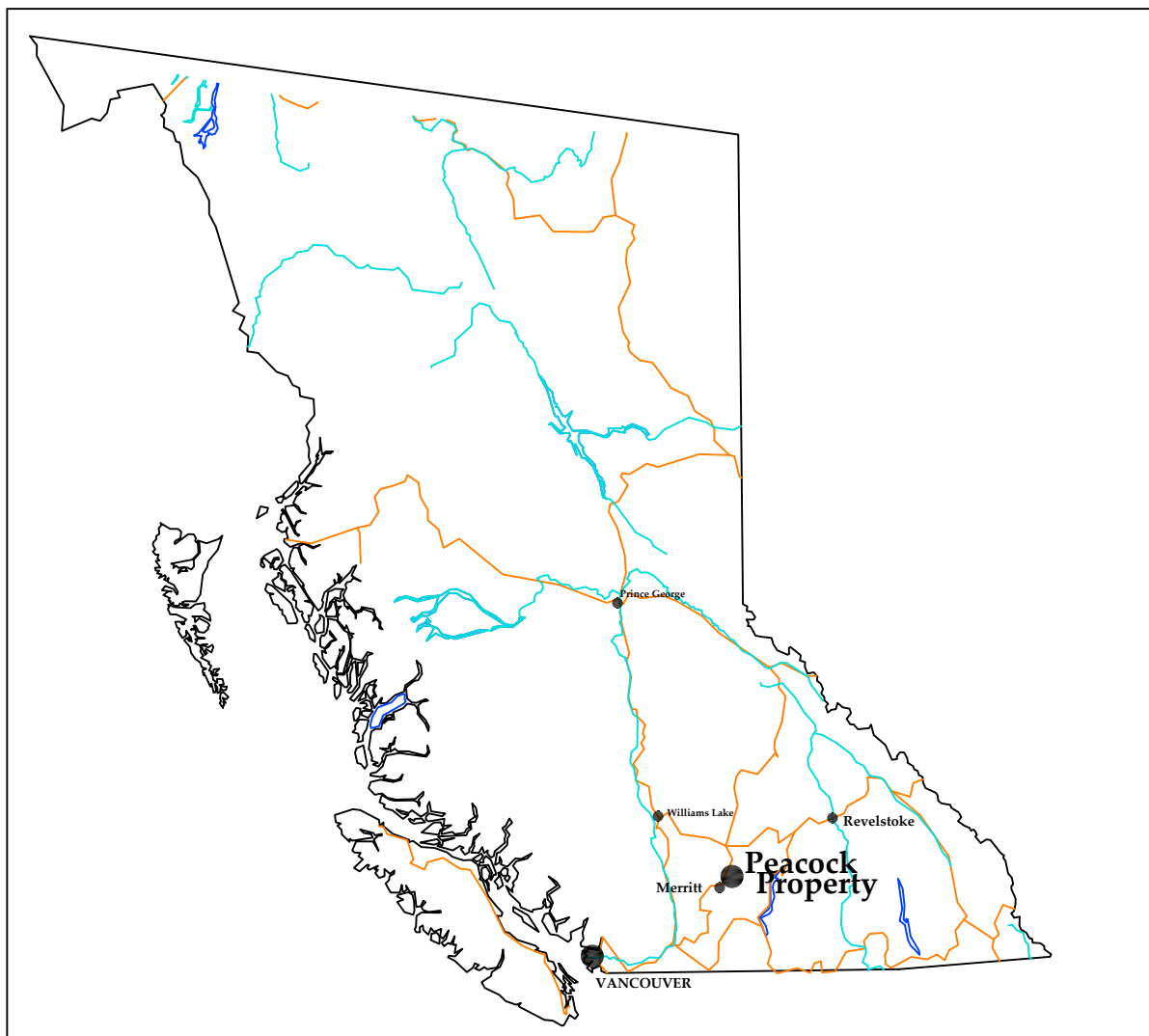
The Peacock Property is 100 % owned by Lionheart Exploration Inc of Vancouver, British Columbia.

4 LOCATION AND ACCESS

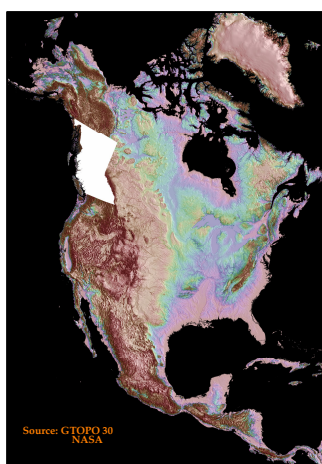
The Peacock project claims are located along the western flank of Peacock Mountain, approximately 16 kilometres northeast of Merritt, BC and 4 kilometres north of the west end of Nicola Lake. The approximate geographical coordinates of the centre of the study area are 50° 12' 30"N and 120° 37' 04"W. The property lies in the Nicola Mining Division within NTS map sheet 92I/02E and BCGS map sheets 92I.017, 92I.018, 92I.027, and 92I.028

Access to the property is from Merritt heading east on the Princeton Kamloops Highway(5A) until reaching Mill Creek Road, approximately 7.7 km from the junction off Highway 5. Turn left onto Mill Creek FSR and continue for approximately 6.2 km. At this junction there are two routes to enter the property which are either by Dog Forest Service Road (right) or left onto Coyote Forest service Road. Turn right and continue for 3.9 km until coming to a junction, then make a left for 750 meters to go to the Turlight mine site.

The remainder of the property is covered by logging and old exploration roads providing good access to all regions. A 4-wheel drive vehicle is recommended.



0 650 km



LIONHEART EXPLORATION INC.

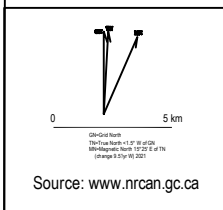
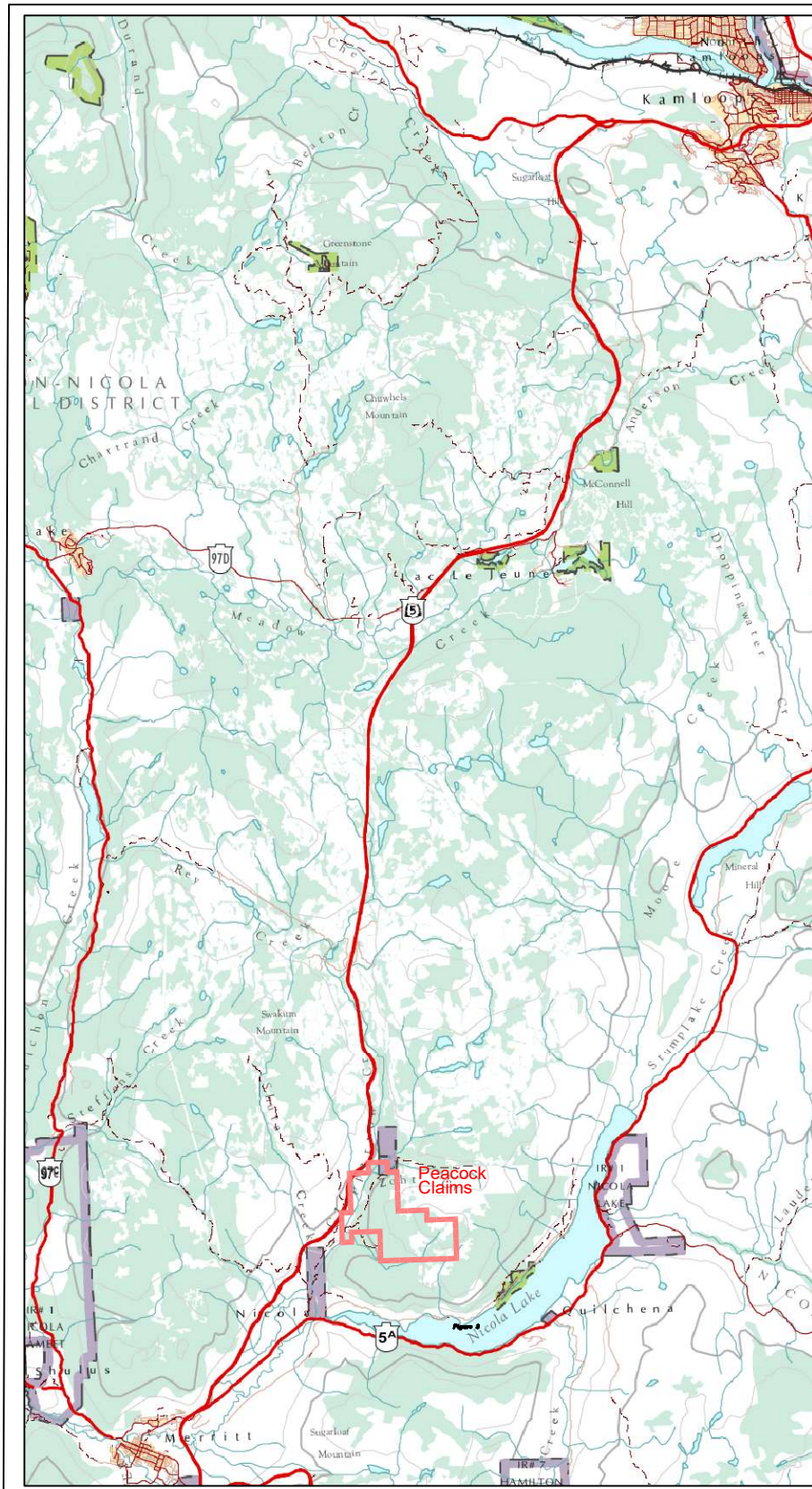
Nicola Mining District
British Columbia

Merritt, B.C.

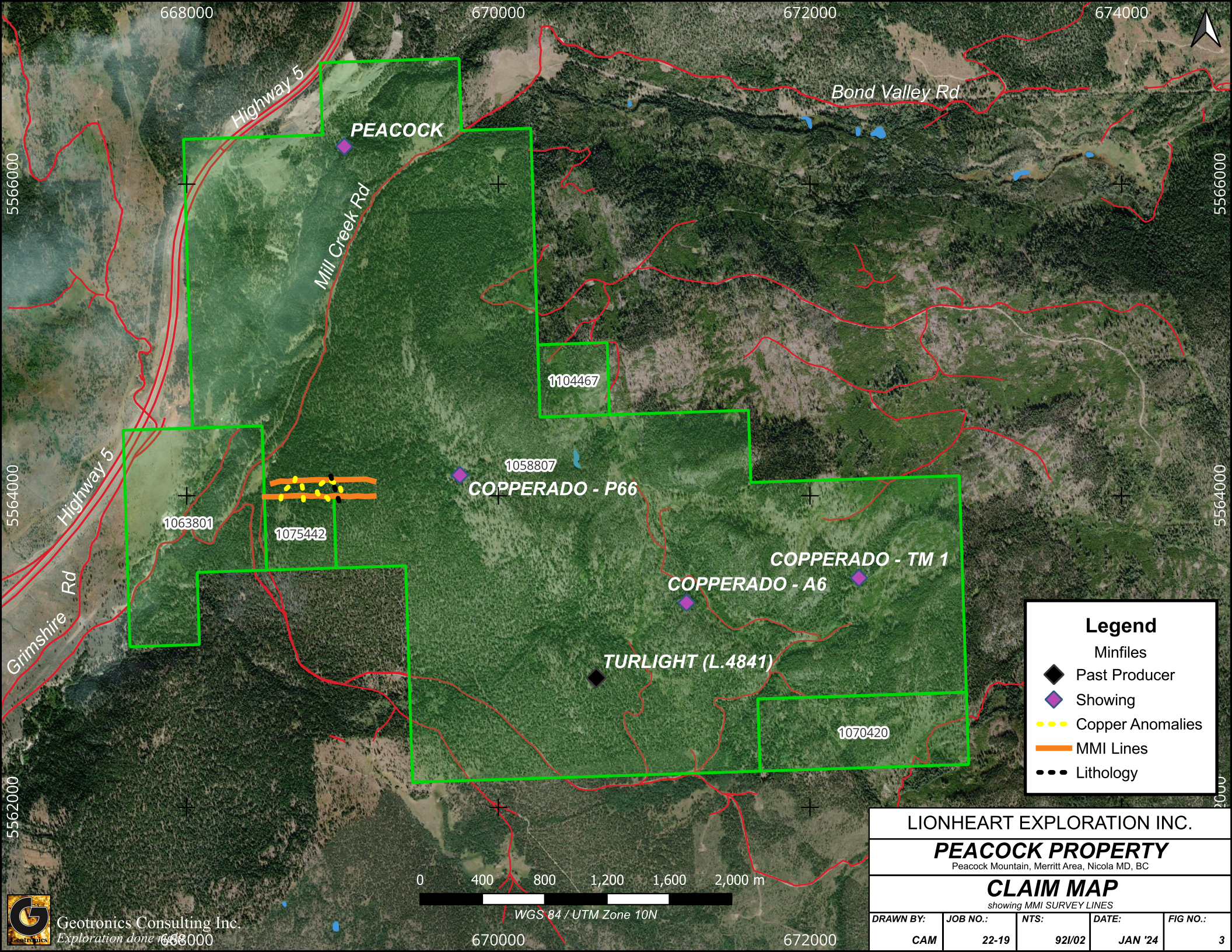
"Peacock Property"
Index Map

Figure 1

James A Turner, P.Geo



LIONHEART EXPLORATION	
PEACOCK PROPERTY	
Nicola Mining Division British Columbia	
Location Map Peacock Property	
Universal Transverse Mercator Zone 10 NAD 83 Datum	<i>Figure 2</i> <i>James A Turner, P.Geo</i>



Legend

- Minfiles
- Past Producer
- Showing
- Copper Anomalies
- MMI Lines
- Lithology

LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

CLAIM MAP

showing MMI SURVEY LINES

DRAWN BY:	JOB NO.:	NTS:	DATE:	FIG NO.:
CAM	22-19	921/02	JAN '24	3



Geotronics Consulting Inc.
Exploration done 168000

0 400 800 1,200 1,600 2,000 m

WGS 84 / UTM Zone 10N

5 PHYSIOGRAPHY

The Peacock Property is found within the Thomson Plateau, which is a physiographic unit of the Interior Plateau System. The Thompson Plateau consists of gently rolling upland of low relief for the most part. On the Peacock Property the elevations vary from 790 meters along the western side of the property at Clapperton Creek to 1,560 meters within the eastern side of the property at the top of Peacock Mountain. Moderate to steep slopes with variable soil cover blanket much of the property.

The main water source is Clapperton Creek, which flows south-southwesterly along the western side of the claims, as well as its tributaries.

Tree cover is generally that of coniferous forest, varying from open to thick, with grasslands as well as some thick second growth.

Glaciers occupied the Thompson Plateau and thus much of the claim area is covered by glacial drift, which can become quite deep over the flatter areas.

The climate in the area is semi-arid, and thus the precipitation is low, about 25 to 28 centimeters (10 to 11 inches). Temperatures vary from the high extreme in summer of around 40°C to the low in winter of around -30°C, though the usual temperature during the summer days would be 15°C to 25°C and that in winter would be -10°C to 5°C.

6 PREVIOUS WORK

This was taken from Turner's report on the property.

In the 1920's copper mineralization consisting of chalcopyrite and bornite was discovered in a high-grade quartz vein known as the Turlight Mine. In 1929, Turlight Mines Ltd. sank a shaft to 60 feet (18 metres) in order to follow the prospective quartz vein. The workings were inactive until 1947 when they were put back into production by Guichon Mines Ltd.

During 1947 and 1948, the property was under option to Anaconda Copper Mining Co. They drilled seven holes for a total of 2,578 feet (786 metres) to test the ore-bearing structure. After the drilling program, the option was dropped. Guichon Mines Ltd. continued operations until the mine was closed in 1951.

The Turlight workings are located within a Crown grant and legacy claim which lies internal to the Peacock property. The Crown Grant has lapsed and the Turlight workings are now part of the Peacock property. Several exploration programs have run on the property since the mine closure.

In 1962, Toluma Mining and Development Co. performed in-field geochemical analysis of soil samples obtained from the area (Montgomery, 1962). The results

were approximations of copper enrichment using assay colour-matching techniques. Almost every sample was noted to contain copper. The strongest and most widespread geochemical reactions were from the southeast section of the Property.

Toluma returned in 1963 to conduct geophysical surveying using Induced Polarization (IP) and Resistivity surveys. The survey was intended to test areas of previous drilling and stripping and locate conductors on the property that might be a consequence of metallic mineral deposits.

Pacific Petroleum Ltd. worked on the Smith claim group in 1972 (Rowe & Cowan, 1972). Soil sample assay results identified a zone of anomalous copper enrichment trending northwest and covering an area 701 metres wide and 1,219 metres long. Copper anomalies of up to 7,300 ppm were recorded from this area.

Copperstar Mine Ltd. conducted exploration drilling in the area in 1977 (Lorimer, 1977a). Three holes were drilled for a total of 350 feet (106 metres) to determine the extent of mineralized surface exposure. Copper, molybdenum, and silver were slightly above background in all 3 holes. There were some narrow zones of stronger enrichment, but it was determined that there was little economic interest in the results. During the same program, drill testing of the old Turlight workings was undertaken with three holes totaling 263.6 metres where low-level copper enrichment was encountered.

CRC Explorations conducted two exploration programs during the year of 1998 and 2006. In 1998 under the supervision of Craig Payne a total of 1,188 soil samples were collected as well as 33.7 km of line cut and flagged in the Turlight Area in a northwest southeast direction above the claim area of the shaft mostly and as well as on the Turlight Shaft. This survey found two new zones of potential areas of interest, the Northwest Zone and the Southeast Zone. IP was conducted at one time or another over a certain portion of the claim block but attempts to find this information have come up with no success.

In 2006 CRC Exploration and COLUMBIA YUKON EXPLORATIONS INC conducted a drilling program consisting of 967 meters in 5 holes as well as other geophysics in the area.

During 2006, five core holes were drilled to test coincident Cu-Ag-Au soil anomalies and IP chargeability-resistivity anomalies. Four of the holes tested the coincident soil geochemical and geophysical anomalies in the West Zone or Peacock and one hole in the East Zone.

West Zone drilling encountered weakly chlorite-sericite altered diorite body containing a modest fine to coarse stockwork of quartz-feldspar veins containing disseminated and clots chalcopyrite, chalcocite and minor bornite. Disseminated native copper was encountered in three of the four drill holes.

Drill hole COP06-01 encountered a 3.04m intersection averaging 2596.8ppm Cu followed by 16.00m of 1631.3ppm Cu. These anomalous geochemical values are caused by disseminated native copper within the altered diorite associated with chalcopyrite-chalcocite- bornite mineralized quartz-feldspar veins.

Drill hole COP06-02 encountered 4.00m grading 1880.30ppm Cu caused by disseminated native copper and mineralized quartz-feldspar veining.

COP06-03 cut 13.00m averaging 1843.0 ppm Cu caused by disseminated native copper and a moderately mineralized quartz-feldspar stockwork.

COP06-04 cut foliated diorite throughout its entire length with spotty copper mineralization ranging up to 3432.0 ppm Cu over 2.00m. Clots and stringers of chalcopyrite-chalcocite hosted in quartz-feldspar veins are the cause of the anomalous geochemical values.

One drill hole COP06-05 was drilled to test anomalous Cu-Ag soil geochemical results within the East Zone target. The drill hole encountered granite followed by foliated diorite and then a 16.00m thick fault zone and ended in unaltered granite. Geochemical results show spotty, weakly anomalous copper values up to 1982.5ppm Cu with one interval from 118.50 to 122.00m (3.50m) returning 1914.4ppm Cu. Based on the results from the 2006 drilling campaign no further work was warranted at the time. Two historical exploration assessment reports describe the geology and mineralization of the strongly mineralized areas and are suggestive of a common link to a buried system.

The claims were allowed to lapse and were acquired by Chris and Guy Delorme.

In 2011 the Delormes hired Terry Garrow to conduct a geophysical survey over a portion of the claim block. The program consisted of a VLF and Proton Magnetometer Survey to encompass a prospective region of the claim block north of the Turlight Shaft. Eight line -km were surveyed. The survey delineated two areas of high magnetics, each being in the most western portion of the survey area and the other on the western portion of the survey area. The Geophysicist (Jason Garrow) found several locations of interest which were expressed to Delorme to prospect later. The VLF also delineated several areas of changes in composition of geological contacts which were subsequently prospected.

In 2012 Chris Delorme conducted a prospecting program with Peter Palikot/Guy Delorme to evaluate other potential areas of highly mineralized quartz veins in the vicinity of the Turlight Shaft and in the Southeast and Northwest areas, and in Clapperton Creek. The program was successful in finding high grade copper and enriched silver and gold values as well as some intriguing molybdenum values sporadically. The samples were done by ICP, which was not included in the previous reports.

In 2013 Dot Resources which optioned the property (Option has now been dropped) contracted out Aurora Geosciences (Robin Wylie) to conduct an ELF survey of 4.6 line-km over a portion of the property approximately Northwest of the Turlight Shaft. The survey completed has delineated one target area about 500 meters northwest of the Turlight Shaft.

In 2014, Chris Delorme contracted Laurence Sookochoff to conduct a Structural Analysis over a portion of the property to ascertain the possibilities of hosting a potential deposit.

Between 2014 and current date the Delormes conducted several work programs over the Peacock Claim Group. The ARIS reports are 35848 and 35529.

In August 2019, Lionheart, entered an agreement with the owners of the Peacock to conduct work on the Property.

In 2021 Lionheart funded an airborne geophysical survey over the property.

7 GEOLOGY

This entire section is taken from Turner's 2021 report on the property.

7.1 REGIONAL

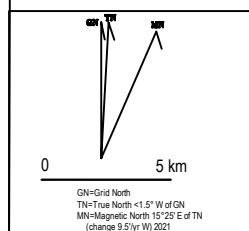
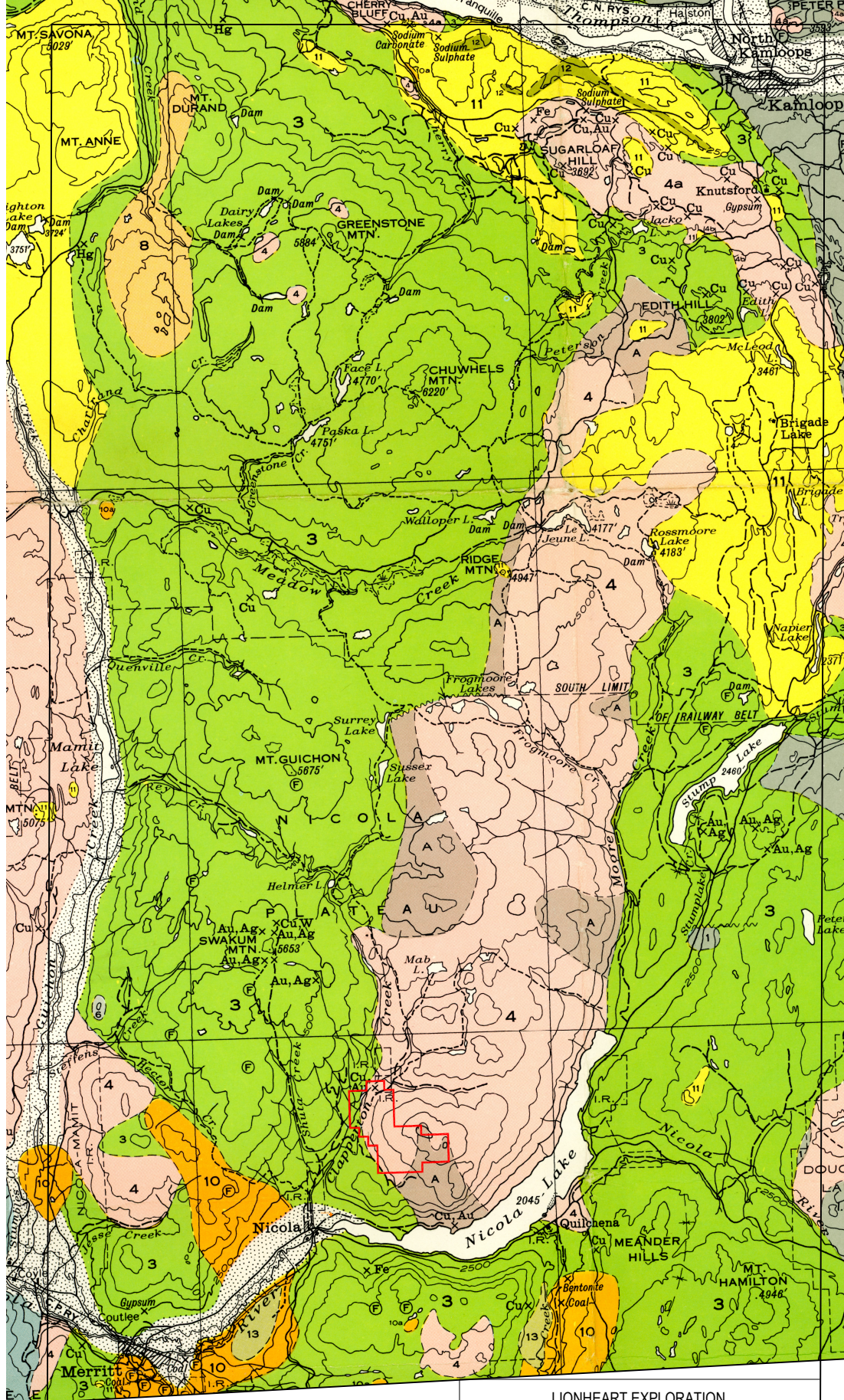
The Regional Geology Figure 4 and Figure 4a (legend) is summarized after Moore and Pettipas 1990, and Payne 2006.

The area in Figure 4 lies in the Intermontane Belt and is part of Quesnellia, the eastern part is in contact with the high-grade metamorphic rocks of the Omineca Belt. Late Triassic calc-alkaline, arc-volcanic rocks and sediments of the Nicola Group underlie the northwestern part. They have been intruded by Tertiary volcanics, dikes, sills (?) and around Rey Lake by granitic rocks of variable composition.

Reconnaissance mapping and compilation by Monger and McMillan (1989) placed the rocks in the area as central volcanic facies. However, subsequent detailed mapping by Moore (1990) described the rocks as belonging to the western volcanic facies of the Nicola Group. This unit is characterized by mafic to felsic, plagioclase-phyric flows, pyroclastic and epiclastic breccia's, tuff, wacke with minor limestone (Moore et al., 1990). Figure 3 shows the regional geological setting of the property.

The Nicola Group is a north-south belt that extends from the Canada-US border to just north of Kamloops. Within the local region, the Nicola rocks are fault bounded and are believed to occupy a roof pendant structure. Intrusive rocks of the Triassic age lie to the east and west of the Nicola rocks.

The volcanic and sedimentary rocks of the Nicola Group in this area are steeply dipping, with top of beds facing east to northeast. They have been regionally metamorphosed to lower greenschist facies (Moore et al., 1990).



source: The Map Place

Geology by: Cockfield 1961/0

LIONHEART EXPLORATION

PEACOCK PROPERTY

Nicola Mining Division

British Columbia

Regional Geology

Universal Transverse Mercator

Zone 10

NAD 83 Datum

Figure 4

James A Turner, P.Geo

LEGEND



Locally, outcropping bedrock is scarce, particularly around the Peacock Property. Within this area overburden depth reaches as much as 50 m on the north side of the property but is commonly only a few meters on the southern side where sporadic outcrop occurs.

The regional geology is dominated by the Nicola Group of volcanic rocks ranging from andesite to basalt as agglomerates, breccia's and tuffs that have been affected by younger intrusions, such as, the three north-south trending batholiths: the eastern Wild horse Mountain, central Nicola and western Guichon Creek batholiths.

The batholiths are of Jurassic age and compositionally zoned from an exterior rim of diorite through to a core of quartz monzonite. They intrude Nicola Group volcanic and pyroclastic rocks with minor limestone, argillite and conglomerate. The Guichon Creek batholith hosts several world class porphyry copper-molybdenum deposits including Valley Copper, Bethlehem Lornex, Highmont, and Craigmont.

7.2 PROPERTY GEOLOGY

The Property is located at the southern end of the Nicola Batholith on a regional topographic high known as the Nicola Horst. The batholith is comprised of predominantly coarse-grained granitic rocks, with the central portion being granodiorite. This granodiorite ranges in composition from biotite granite to hornblende biotite tonalite. In addition to the granitoid phases, metamorphosed supracrustal rocks from several ages, and Mesozoic to Tertiary plutonic rocks, occupy the Nicola Horst (Moore, 1989)

Intrusion by the Nicola Batholith has produced strong local metamorphism of the Nicola Group volcano sedimentary package. Metasediments, tonalite and tonalite porphyry are found in conjunction with the granodiorite. Metamorphic grade is up to lower amphibolite facies.

There are subsequent intrusions of Jurassic to Paleocene granitoids (Moore and Pettipas, 1989). Rocks in the northern third of the horst are Jurassic in age, overlain by Tertiary basalt, while similar intrusive rocks in the south are Paleocene (Moore, 1989).

Steep brittle faults separate the Nicola Batholith from surrounding Nicola Group supracrustals. West of the Nicola Batholith is the Coldwater- Clapperton Creek fault zone, to the east is the Quilchena Creek-Stump Lake fault zone, and there is an unnamed fault zone to the south (Moore, 1989). Fault zones are characterized by closely spaced fracturing, slickenside lineation's and local hydrothermal alteration. Sparse evidence of ductile deformation features was noted (Moore, *ibid.*).

Quartz veins broadly associated with regional deformation events tend to be mineralized with bornite, chalcopyrite and molybdenite. These veins are in turn crosscut by quartz-feldspar porphyry units which are assumed to be related to Paleocene emplacement of granitoids (Moore, 1989). Mineralisation on the Property tends to be associated with quartz veins hosted in granodiorite.

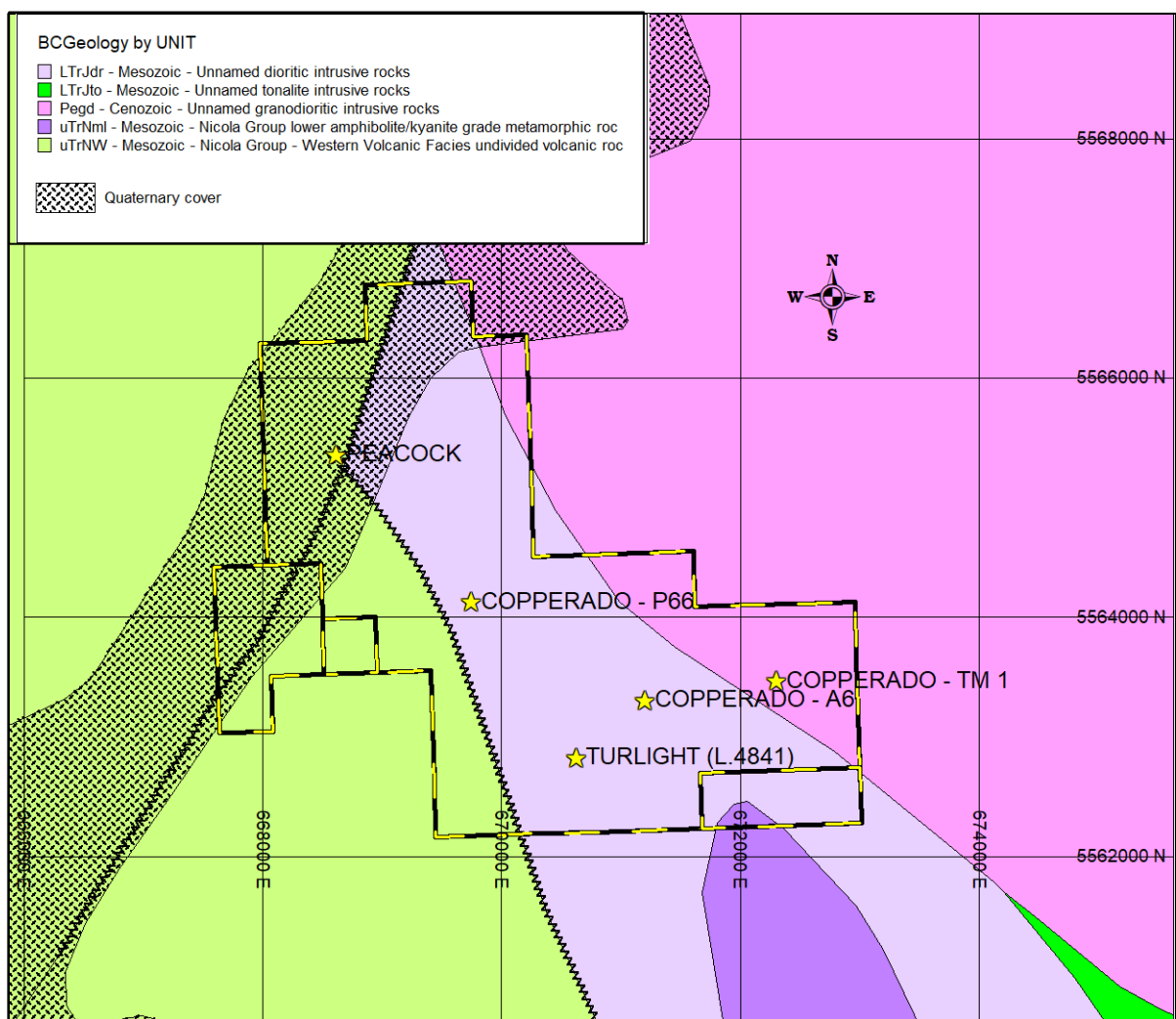


Figure 5: Peacock Property Geology Map (from BCGS)
Peacock project claims outlined in yellow-black lines.

The central Nicola Horst is interpreted as a metamorphic core complex (Ewing, 1980) resulting from extension of the southern Cordillera in early Tertiary time. The contrast in metamorphic grade between the horst and its surroundings, and the age of bounding faults, are consistent with this interpretation.

However, most of the strain in the horst is not spatially related to the Tertiary bounding faults, is no younger than Paleocene, and, based upon kinematic evidence, is compressive as opposed to extensional (Moore, 1989). The Paleocene granodiorite is megascopically unstrained except for one locality noted on the west contact where gently west-dipping shear banding has been recorded (Moore, 1989).

The contact with the Jurassic granodiorite is poorly defined. The Nicola Horst appears to be a fenster, exposing a deformed terrane that lies below the current erosional level of the enclosing Nicola Group rocks. This may represent the actual root of the Nicola volcanic arc and its deformation related to arc collisional tectonics and subduction/obduction, as opposed to extensional Eocene tectonics of the Cordilleran mountain belt. Mineral thermal reset dates imply uplift and cooling in Eocene times (Moore, 1989)

7.2.1 Mineralization

There are 5 MinFile occurrences within the Peacock property. The Turlight (past producer), Peacock, Copperado-P66, and Copperado-TM1 are reported as Cu +/- Mo +/- Au hydrothermal vein showings. The fifth occurrence is the Copperado-A6 which is listed as containing uranium in a disseminated pegmatite.

Nicola Group volcano-sedimentary rocks have undergone weak regional metamorphism which is manifested by chloritization and epidotization of mafic minerals in porphyritic andesite flows. Sedimentary rocks appear relatively unaltered except in and around old showings in the central part of the property (Fig. 5)

Sedimentary rocks, especially argillite interbedded with lesser siliceous limestone, have been subjected to hydrothermal alteration associated with the emplacement of massive sulphide mineralization. They are extremely hard, exhibit some conchoidal fracture due to pervasive silicification and have also undergone weak calc-silicate alteration with most of the carbonate being lost from the limestone (weak response to HC1).

These sedimentary rocks are cut by milky quartz veins and irregular masses. Fe-oxide alteration is very intense in areas of mineralization.

Highly anomalous copper, silver, gold, and molybdenum values are found in three styles of mineralization on the property.

The most common style is chalcopryite, chalcocite, bornite and molybdenite stringers and pods in multiple series of anastomosing quartz and quartz-feldspar

veins and veinlets in foliated diorite. Abundant malachite, azurite and minor chrysocolla coat fractures and vugs within fractured vein sets

The second style of mineralization is disseminated fine grained chalcopryrite, minor bornite, pyrite and native copper in foliated diorite usually associated with quartz and/or quartz-feldspar veining. Locally abundant malachite and azurite coat foliation planes. Minor stringers and disseminated chalcopryrite and pyrite are found within felsite dikes throughout the property. The East Zone is a series of multiple quartz and quartz-feldspar veins and coarse quartz stockwork in quartz diorite which extends some 1.7km to the northwest and is exposed over a width of 200m.

Mineralization of the veins consists of chalcopryrite, chalcocite and locally bornite with trace molybdenite. Malachite and azurite are common and locally chrysocolla. Generally, the sulphides occur as stringers and crystal aggregates in fractures within quartz or quartz-feldspar veins, linings of vugs and along contacts between veins and host rock.

All three vein sets in this area contain significant copper, silver and gold mineralization with the eastern part of the East Zone containing highly anomalous molybdenum values. Anomalous copper values of rock grab samples from quartz veins (all vein sets) range from 1,051.1ppm Cu to 98,607.2ppm Cu; silver values range from 1079ppb Ag to 99,999ppb Ag; gold values from 517ppb to 4669.8ppb Au and molybdenum from trace to 23,166.7ppm Mo.

Similar mineralogy (no molybdenite) is found throughout the West Zone consisting of a series of multiple orientated quartz and quartz-feldspar veins and veinlets exposed over an area some 1.1km by 500m wide and remains open to the northwest.

Anomalous (all vein sets) metal values from rock grab samples of the quartz and quartz-feldspar veins range from 2,798.8ppm Cu to 93,882.4ppm Cu; silver from 1,004ppb Ag to 99,999ppb Ag; weakly anomalous molybdenum from trace to 37ppm Mo and gold from trace to 1,433ppb Au.

Disseminated, fine to medium grained chalcopryrite and fine-grained native copper occurs within foliated diorite commonly within proximity to veins. However very fine-grained disseminated chalcopryrite, malachite and azurite is found along micaceous foliation planes within weakly silicified, and chlorite-sericite altered diorite.

Disseminated mineralization within foliated granodiorite/diorite ranges from trace to 3,723.9ppm Cu; trace to 1,881ppb Ag; trace to 11.5ppm Mo and trace gold. Mineralization within felsic dikes range from trace to 3,770.7ppm Cu; trace to 2,931ppb Ag; trace to 12.3ppm Mo and trace to 65ppb Au.

7.2.2 Alteration

Moderate hydrothermal alteration is generally confined to envelopes around quartz veins or fault zones. The alteration envelope grades outward within a short distance into weakly propylitic to unaltered rock.

Weak to moderate potassic alteration is observed locally where potash feldspar halos have partially replaced plagioclase. Locally less than 1mm wide potash feldspar veinlets cut the rock. Weak to locally intense propylitic alteration is characterized by the development of chlorite, epidote+/-carbonate+/-sericite and is irregularly distributed throughout the diorite.

Generally, the eastern part of the property exhibits weak to locally moderate epidote alteration while the central part exhibits weak to no alteration. The western part of the property exhibits moderate to locally intense propylitic and sericite alteration.

7.2.3 Structure

The relationship between volcanic and sedimentary rocks is not well understood because of the limited exposure and heavy lichen-covered nature of the outcrops on the property. Rocks generally trend 355 to 30 degrees and dip 70 to 76 degrees to the west. All rock types are moderately fractured. The fracture density is higher in the areas of mineralization. The dominant fracture orientation in the sedimentary rocks is parallel to subparallel to bedding at 20 to 30 degrees and steeply dipping. Altered quartz masses and massive sulphide lenses are controlled by this fracture trend.

8 MMI SOIL SAMPLING

8.1 SAMPLING PROCEDURE

The 2022 work was carried out by a 2-man crew, under supervision of the writer, using UTM-based coordinates by using GPS hand-held instruments. The MMI survey consisted of 29 samples that were picked up along 2 lines with one being 650 meters in length and the other being 700 meters in length. The total amount of surveying therefore was 1,350 meters with a line spacing of 100 meters and a sampling interval of 50 meters.

The sampling procedure was to first remove the organic material from the sample site (A₀ layer) and then dig a pit over 25 cm deep with a shovel. Sample material was then scraped from the sides of the pit over the measured depth interval of 10 centimeters to 25 centimeters. About 250 grams of sample material were collected and then placed into a plastic Zip-loc sandwich bag with the sample location marked thereon. The 29 samples were then packaged and sent to SGS Minerals located at Production Way, Burnaby, BC.

8.2 ANALYTICAL METHODS

At SGS Minerals, the testing procedure begins with weighing 50 grams of the sample into a plastic vial fitted with a screw cap. Next is added 50 ml of the MMI-M solution to the sample, which is then placed in trays and put into a shaker for 20 minutes. (The MMI-M solution is a neutral mixture of reagents that are used to detach loosely bound ions of any of the 53 elements from the soil substrate and formulated to keep the ions in solution.) These are allowed to sit overnight and subsequently centrifuged for 10 minutes. The solution is then diluted 20 times for a total dilution factor of 200 times and then transferred into plastic test tubes, which are then analyzed on ICP-MS instruments.

Results from the instruments for the 53 elements are processed automatically, loaded into the LIMS (laboratory information management system which is computer software used by laboratories) where the quality control parameters are checked before final reporting.

8.3 COMPILATION OF DATA

The MMI results, which are given in Appendix I, have been reduced and displayed on 13 colour contour maps using Geosoft software and these have been labeled GC-2 to GC-14, respectively and are given in Appendix III. The first 13 maps, that is, GC-1 to GC-13, are for 13 elements, and these are silver, gold, cadmium, cerium, cobalt, copper, potassium, lithium, molybdenum, nickel, lead, uranium, and zinc. Most of these maps are of metals that are of moderate to strong exploration interest on the Peacock Property. Four of these maps are of metals that are created to assist in mapping/understanding the geology and these are potassium, cerium, nickel, and uranium. Cerium, besides indicating possible rare earth mineralization, can indicate acidic rock-types. Nickel, on the other hand, besides indicating possible nickel mineralization, which is not expected on this property, can indicate more basic rock-types. Uranium, which is not of exploration interest since exploration for it was banned in BC, is often indicative of granitic-type intrusives. Potassium may indicate potassic alteration which often occurs within and around mineralization.

In addition, stacked histograms were created of 10 of the metals which are shown in Appendix II. The purpose is to show the relative strength of a metal at one sample site to the next as well as to show the correlation between different metals. This was first done by calculating the mean background value for each metal, and this number was then divided into the reported value for that metal for each soil station to obtain a figure called the response ratio.

Two stacked histograms were then made of the response ratios for each of the 2 lines as shown on figures #H1A and #H2A as well as #H1B #H2B, inclusive, for a total of 4. The first stacked histogram, which ends in 'A', includes copper, silver, gold, molybdenum; and cadmium, and the second one, which ends in 'B', includes lead, zinc, nickel, cobalt, cerium, and uranium.

The calculated background values in parts per billion (ppb) are as follows:

TABLE 2 - PEACOCK MMI BACKGROUND VALUES									
Ag	Au	Cd	Ce	Co	Cu	Mo	Ni	Pb	Zn
6.3	0.05	6.5	39.8	42.7	580	4.8	206	26.8	102

9 DISCUSSION OF RESULTS

The two MMI survey lines cover a small area but, nevertheless, have revealed two reasonably strong copper anomalies that have been labeled by the upper case letters, A and B, as shown on the plan maps as well as on the stacked histograms.

Anomaly A is the stronger of the two reaching a high of 5,210 ppb. On line 4100N, it is about 35 meters wide and widens out to 140 meters on line 4000N and thus is open both to the north and to the south. It also correlates with silver as well as weak gold and weak molybdenum anomalous values. The nickel and cerium MMI results suggest the possibility that the causative source may occur within a more basic rock-type, perhaps of the Nicola volcanics.

Anomaly B reaches a high of 4,000 ppb and is about 100 meters wide with it being open to the north and to the south. It also correlates with anomalous silver values and also with anomalous cobalt and uranium values.

This anomaly is shown to occur on a possible lithologic contact as suggested by the cerium and nickel values as mentioned above. The higher cerium to the east suggests an acidic rock-type, perhaps dioritic intrusives as indicated by the geology map. The higher nickel values to the west suggest the underlying rock-type to be a more basic type, probably of the Nicola volcanics. Anomaly A occurs within this suggested rock-type.

Also occurring within the possible Nicola volcanics are anomalous lithium values that could be reflecting lithium mineralization. Lithium usually occurs within pegmatite dykes. On this grid, the lithium anomalous values correlate with cerium anomalous values which suggests that the possible lithium mineralization occurs within pegmatite dykes.

10 CONCLUSIONS

The MMI soil sampling within a very small grid revealed two copper anomalies of significant strength that have been labelled A and B. Anomaly A appears to occur within a basic rock-type and anomaly B appears to occur along a contact between basic and acidic rock-types.

11 RECOMMENDATIONS

The MMI soil sampling, though carried out over a small area, revealed strong copper results. The MMI soil sampling therefore should be continued in all directions, especially to the north and to the south. If this results in MMI anomalies of significant size, then it should be followed up with IP/resistivity surveying.

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13 GEOSCIENTIST'S CERTIFICATE

I, DAVID G. MARK, of the community of Kaleden, in the Province of British Columbia, do hereby certify that:

I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I am a Consulting Geophysicist of Geotronics Consulting Inc., with offices at 130 – Saddlehorn Drive, British Columbia.

I further certify that:

1. I am a graduate of the University of British Columbia (1968) and hold a B.Sc. degree in Geophysics.
2. I have been practicing my profession for the past 55 years and have been active in the mining industry for the past 58 years.
3. This report is compiled from data obtained from MMI soil sampling carried out by a 2-man crew of Geotronics Consulting within the Peacock Property October 21st, to the 21st, 2022, under my direction.
4. I do not hold any interest within Lionheart Exploration Inc, not in any of its properties, nor do I expect to receive any interest as a result of writing this report.

David Mark

David G. Mark, P.Geo.
Geophysicist

August 8, 2023

14 AFFIDAVIT OF EXPENSES

MMI soil sampling was carried out within the Peacock Property, located 16 km northeast of the town of Merritt, B.C, during the period of October 15th to 21st, 2022 to the value of the following:

FIELD:		
MMI, 2-man crew, 1.6 days @ \$2,2 00/day	\$3,520.00	\$3,520.00
LABORATORY:		
MMI soil analysis, 29 samples @ \$55/sample	\$1,595.00	\$1,595.00
DATA REDUCTION and REPORT:		
Senior Geoscientist, 25 hr @ \$120/hr	\$3,000.00	
Geo-technician with computer, 10 hr @ \$120/hr	<u>\$1,200.00</u>	
TOTAL	\$4,200.00	\$4,200.00
GRAND TOTAL		\$9,315.00
Administration costs @ 10%		\$931.50
GRAND TOTAL plus administration costs		\$10,246.50

Respectfully submitted,
Geotronics Consulting Inc.

David Mark

David G. Mark, P.Geo,
Geoscientist

August 8, 2023

15 APPENDIX I – MMI GEOCHEMISTRY DATA

MMI DATA
PEACOCK PROPERTY

			ANALYTE	<u>Ag</u>	<u>Al</u>	<u>As</u>	<u>Au</u>	<u>Ba</u>	<u>Bi</u>	<u>Ca</u>	<u>Cd</u>	<u>Ce</u>	<u>Co</u>
			DETECTION	0.5	1	10	0.1	10	0.5	2	1	2	1
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
4000N-8500E	668500	5563994		7.7	52	<10	<0.1	6490	<0.5	597	15	200	61
4000N-8550E	668549	5563994		19.4	32	<10	<0.1	4310	<0.5	454	14	169	77
4000N-8600E	668590	5563995		18.6	43	<10	0.1	4540	<0.5	509	10	252	141
4000N-8650E	668648	5563997		31.7	6	<10	0.2	1680	<0.5	596	7	3	69
4000N-8700E	668697	5564001		23.7	6	<10	0.1	3220	<0.5	703	3	<2	26
4000N-8750E	668747	5564003		17	30	<10	<0.1	7100	<0.5	505	11	89	54
4000N-8800E	668801	5563997		8.7	37	<10	<0.1	3990	<0.5	509	8	85	65
4000N-8850E	668845	5564001		22.7	42	<10	0.1	3530	<0.5	423	8	291	73
4000N-8900E	668901	5563993		23.3	35	<10	<0.1	6780	<0.5	663	11	148	123
4000N-8950E	668947	5564001		16.6	32	<10	<0.1	9710	<0.5	784	9	174	150
4000N-9000E	669000	5563999		6.4	71	<10	<0.1	8420	<0.5	463	10	320	66
4000N-9050E	669052	5563995		6.9	66	<10	0.1	10700	<0.5	713	76	269	31
4000N-9100E	669100	5564000		10.1	37	<10	0.5	5830	<0.5	518	9	387	100
4000N-9150E	669148	5563995		13.5	32	<10	<0.1	5190	<0.5	580	12	272	100
4000N-9200E	669202	5563999		9.1	48	<10	<0.1	8950	<0.5	595	13	291	167
4100N-8550E	668552	5564080		12.3	18	<10	<0.1	2630	<0.5	305	18	72	151
4100N-8600E	668603	5564095		19.5	56	<10	0.1	3680	<0.5	284	7	583	116
4100N-8650E	668654	5564092		10.1	25	10	<0.1	2790	<0.5	282	15	66	89
4100N-8700E	668701	5564099		16.2	33	<10	0.2	3670	<0.5	452	13	189	135
4100N-8750E	668752	5564099		11.4	67	<10	<0.1	3170	<0.5	375	16	94	25
4100N-8800E	668800	5564100		3.7	81	<10	<0.1	2800	<0.5	371	13	359	184
4100N-8850E	668848	5564104		8.9	70	<10	<0.1	2240	<0.5	409	14	147	79
4100N-8900E	668903	5564101		26.1	57	<10	<0.1	3320	<0.5	477	11	223	79
4100N-8950E	668954	5564104		10.5	61	<10	<0.1	4090	<0.5	436	12	327	59
4100N-9000E	669005	5564104		6.1	56	<10	0.2	6670	<0.5	451	6	494	123
4100N-9050E	669050	5564107		7.1	76	10	<0.1	8620	<0.5	532	12	271	124
4100N-9100E	669100	5564104		16.5	22	<10	0.3	8850	<0.5	779	8	12	140
4100N-9150E	669151	5564107		13.3	46	<10	<0.1	5140	<0.5	568	25	193	104
4100N-9200E	669201	5564094		17	38	<10	0.1	7000	<0.5	450	10	295	79

Note: Lab method is SGS GE MMIM

MMI DATA
PEACOCK PROPERTY

			ANALYTE	<u>Cr</u>	<u>Cs</u>	<u>Cu</u>	<u>Dy</u>	<u>Er</u>	<u>Eu</u>	<u>Fe</u>	<u>Ga</u>	<u>Gd</u>	<u>Hg</u>
			DETECTION	100	0.2	10	0.5	0.2	0.2	1	0.5	0.5	1
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
4000N-8500E	668500	5563994		<100	0.4	640	48.3	28.3	12.1	27	2.2	56.5	<1
4000N-8550E	668549	5563994		<100	<0.2	1190	54.7	33.3	13.5	22	1.5	66.1	<1
4000N-8600E	668590	5563995		<100	0.3	1560	72.6	46.2	17.9	17	1.5	87.1	<1
4000N-8650E	668648	5563997		<100	0.3	2790	1.2	0.8	0.3	10	<0.5	1.3	<1
4000N-8700E	668697	5564001		<100	0.5	5210	<0.5	<0.2	<0.2	16	<0.5	<0.5	<1
4000N-8750E	668747	5564003		<100	0.5	1500	37.5	20.6	10.4	20	1	50.4	<1
4000N-8800E	668801	5563997		<100	0.3	620	36.7	21.1	9.2	18	1.3	45	<1
4000N-8850E	668845	5564001		<100	0.2	1490	61	34.7	17.6	38	2.1	80.1	<1
4000N-8900E	668901	5563993		<100	<0.2	1740	73.3	42.5	16.5	24	1.3	84.5	<1
4000N-8950E	668947	5564001		<100	<0.2	4000	64.9	38.1	16.5	28	1.1	76.8	<1
4000N-9000E	669000	5563999		<100	0.2	480	40.6	23.2	10.8	42	1.8	46.8	<1
4000N-9050E	669052	5563995		<100	0.5	400	28.2	16.6	8.6	48	2.4	34.4	<1
4000N-9100E	669100	5564000		<100	<0.2	890	45.3	25	12	43	1.4	50.6	<1
4000N-9150E	669148	5563995		<100	<0.2	1120	71.9	43.2	17.1	26	1.5	83.1	<1
4000N-9200E	669202	5563999		<100	<0.2	1140	44.8	27.1	12.4	37	1.7	52.3	<1
4100N-8550E	668552	5564080		<100	<0.2	2200	27.3	16.7	6.7	8	0.9	31.7	<1
4100N-8600E	668603	5564095		<100	<0.2	750	89.3	49.1	22.9	40	2	101	<1
4100N-8650E	668654	5564092		<100	<0.2	590	25	14.9	5.7	9	1.1	28.6	<1
4100N-8700E	668701	5564099		<100	0.2	1730	63.8	37.8	16.5	16	1.4	77	<1
4100N-8750E	668752	5564099		<100	0.3	1090	33.4	20.2	8.5	43	1.8	39.2	<1
4100N-8800E	668800	5564100		<100	0.5	880	85.2	56.6	19.4	33	2.4	91.9	<1
4100N-8850E	668848	5564104		<100	0.3	810	33.3	20.2	8.2	33	2.1	37.6	<1
4100N-8900E	668903	5564101		<100	0.2	1620	70.9	42.5	16.9	38	1.9	84	<1
4100N-8950E	668954	5564104		<100	0.3	940	55.5	33.4	15	40	2.6	69.6	<1
4100N-9000E	669005	5564104		<100	<0.2	750	57	33.5	14.7	54	2.3	65.9	<1
4100N-9050E	669050	5564107		<100	<0.2	1030	52.2	30.9	13.5	42	2	59	<1
4100N-9100E	669100	5564104		<100	<0.2	1980	16.4	11.5	3.3	20	0.5	15.3	<1
4100N-9150E	669151	5564107		<100	<0.2	1220	41.3	24	10.7	35	1.9	48.1	<1
4100N-9200E	669201	5564094		<100	<0.2	1350	49.6	27.9	13.9	36	1.8	64.1	<1

Note: Lab method is SGS GE MMIM

MMI DATA
PEACOCK PROPERTY

			ANALYTE	<u>In</u>	<u>K</u>	<u>La</u>	<u>Li</u>	<u>Mg</u>	<u>Mn</u>	<u>Mo</u>	<u>Nb</u>	<u>Nd</u>	<u>Ni</u>
			DETECTION	0.1	0.5	1	1	0.5	100	2	0.5	1	5
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
4000N-8500E	668500	5563994		<0.1	43.8	83	8	127	16200	11	2	155	313
4000N-8550E	668549	5563994		<0.1	156	84	13	186	13000	6	0.9	179	527
4000N-8600E	668590	5563995		<0.1	91.2	124	77	283	11600	7	0.8	223	661
4000N-8650E	668648	5563997		<0.1	144	<1	66	396	3800	16	<0.5	2	466
4000N-8700E	668697	5564001		<0.1	158	<1	13	175	2400	11	<0.5	<1	441
4000N-8750E	668747	5564003		<0.1	60	54	16	230	6300	8	0.8	132	248
4000N-8800E	668801	5563997		<0.1	184	44	40	249	13600	24	<0.5	103	506
4000N-8850E	668845	5564001		<0.1	85.8	145	18	89.7	9500	8	1.4	276	399
4000N-8900E	668901	5563993		<0.1	83.4	87	16	194	11800	6	0.9	189	526
4000N-8950E	668947	5564001		<0.1	57.9	69	11	202	7900	7	1.1	166	383
4000N-9000E	669000	5563999		<0.1	38.7	106	10	108	10300	3	1.1	163	219
4000N-9050E	669052	5563995		<0.1	72.7	73	4	105	23800	15	3.5	131	471
4000N-9100E	669100	5564000		<0.1	44.8	126	5	163	6200	7	1.9	185	165
4000N-9150E	669148	5563995		<0.1	85.3	98	9	170	9000	9	1.2	211	325
4000N-9200E	669202	5563999		<0.1	49.5	100	8	195	17900	6	1.6	159	324
4100N-8550E	668552	5564080		<0.1	196	35	59	603	11500	47	0.9	71	720
4100N-8600E	668603	5564095		<0.1	45.3	238	12	236	8400	9	2	371	355
4100N-8650E	668654	5564092		<0.1	234	36	28	454	13900	22	0.8	68	306
4100N-8700E	668701	5564099		<0.1	141	90	51	256	17100	16	0.5	201	869
4100N-8750E	668752	5564099		<0.1	88.3	52	4	105	9900	7	2	110	211
4100N-8800E	668800	5564100		<0.1	66.4	141	45	156	21800	6	0.5	275	445
4100N-8850E	668848	5564104		<0.1	103	56	7	85.9	10100	8	1.8	112	235
4100N-8900E	668903	5564101		<0.1	86.3	123	17	139	9500	8	1.9	235	448
4100N-8950E	668954	5564104		<0.1	92.4	128	17	65.3	10500	8	1.9	229	432
4100N-9000E	669005	5564104		<0.1	43.8	153	8	115	8700	4	2.4	237	157
4100N-9050E	669050	5564107		<0.1	157	114	8	123	20700	4	1.8	191	449
4100N-9100E	669100	5564104		<0.1	171	5	7	143	8200	8	2.7	17	284
4100N-9150E	669151	5564107		<0.1	86.7	80	7	108	15400	9	1.6	144	396
4100N-9200E	669201	5564094		<0.1	118	139	6	112	9900	10	2.2	220	274

Note: Lab method is SGS GE MMIM

MMI DATA
PEACOCK PROPERTY

			ANALYTE	<u>P</u>	<u>Pb</u>	<u>Pd</u>	<u>Pr</u>	<u>Pt</u>	<u>Rb</u>	<u>Sb</u>	<u>Sc</u>	<u>Sm</u>	<u>Sn</u>
			DETECTION	0.1	5	1	0.5	0.1	1	0.5	5	1	1
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
4000N-8500E	668500	5563994		2.2	80	<1	30.9	<0.1	27	<0.5	41	43	<1
4000N-8550E	668549	5563994		3.4	60	<1	34.2	<0.1	15	<0.5	37	50	<1
4000N-8600E	668590	5563995		2.2	97	<1	43.4	<0.1	26	<0.5	32	64	<1
4000N-8650E	668648	5563997		2.7	17	<1	<0.5	<0.1	44	<0.5	22	<1	<1
4000N-8700E	668697	5564001		1.5	6	1	<0.5	<0.1	57	<0.5	14	<1	<1
4000N-8750E	668747	5564003		1.9	42	<1	23.8	<0.1	52	<0.5	29	40	<1
4000N-8800E	668801	5563997		4.2	52	<1	18.7	<0.1	76	<0.5	28	32	<1
4000N-8850E	668845	5564001		3.8	49	<1	54.7	<0.1	32	<0.5	44	68	<1
4000N-8900E	668901	5563993		2.2	60	<1	34.3	<0.1	28	<0.5	37	57	<1
4000N-8950E	668947	5564001		1.4	63	<1	29.6	<0.1	12	<0.5	41	53	<1
4000N-9000E	669000	5563999		2.5	71	<1	34.7	<0.1	40	<0.5	73	40	<1
4000N-9050E	669052	5563995		3.3	20	<1	27.5	<0.1	103	<0.5	65	32	<1
4000N-9100E	669100	5564000		1.8	57	<1	40	0.5	17	<0.5	61	44	<1
4000N-9150E	669148	5563995		1.8	59	<1	40.3	<0.1	18	<0.5	36	59	<1
4000N-9200E	669202	5563999		1.2	76	<1	34	<0.1	21	<0.5	71	42	<1
4100N-8550E	668552	5564080		7.5	76	<1	13	<0.1	23	<0.5	20	22	<1
4100N-8600E	668603	5564095		2.9	103	<1	80	<0.1	17	<0.5	93	91	<1
4100N-8650E	668654	5564092		9	88	<1	13	<0.1	39	<0.5	29	21	<1
4100N-8700E	668701	5564099		2.4	68	<1	37	<0.1	37	<0.5	26	59	<1
4100N-8750E	668752	5564099		5.2	33	<1	21.2	<0.1	33	<0.5	43	30	<1
4100N-8800E	668800	5564100		2.8	189	<1	55.7	<0.1	64	<0.5	59	74	<1
4100N-8850E	668848	5564104		4.1	76	<1	22.5	<0.1	38	<0.5	49	31	<1
4100N-8900E	668903	5564101		5.9	86	<1	46.8	<0.1	33	<0.5	54	64	<1
4100N-8950E	668954	5564104		4.9	59	<1	48.4	<0.1	40	<0.5	55	60	<1
4100N-9000E	669005	5564104		2.1	52	<1	51.8	<0.1	45	<0.5	91	58	<1
4100N-9050E	669050	5564107		4.9	113	<1	40.9	<0.1	5	<0.5	69	50	<1
4100N-9100E	669100	5564104		2.2	43	<1	2.9	<0.1	4	<0.5	22	7	<1
4100N-9150E	669151	5564107		2.8	88	<1	28.6	<0.1	38	<0.5	46	38	<1
4100N-9200E	669201	5564094		3	109	<1	45.9	<0.1	21	<0.5	43	53	<1

Note: Lab method is SGS GE MMIM

MMI DATA
PEACOCK PROPERTY

			ANALYTE	<u>Sr</u>	<u>Ta</u>	<u>Tb</u>	<u>Te</u>	<u>Th</u>	<u>Ti</u>	<u>Tl</u>	<u>U</u>	<u>W</u>	<u>Y</u>
			DETECTION	10	1	0.1	10	0.5	10	0.1	0.5	0.5	1
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
4000N-8500E	668500	5563994		2980	<1	8.7	10	22.3	40	0.2	31.2	1	256
4000N-8550E	668549	5563994		4590	<1	9.7	10	27.8	40	0.1	36.7	<0.5	294
4000N-8600E	668590	5563995		9390	<1	12.9	<10	59	50	0.1	28.5	<0.5	372
4000N-8650E	668648	5563997		15200	<1	0.2	<10	1.7	30	0.1	12.5	<0.5	7
4000N-8700E	668697	5564001		13100	<1	<0.1	<10	<0.5	20	<0.1	8.7	<0.5	2
4000N-8750E	668747	5564003		9560	<1	7	<10	25.4	40	0.1	36.4	<0.5	210
4000N-8800E	668801	5563997		7910	<1	6.3	<10	25.2	60	0.1	19.4	<0.5	183
4000N-8850E	668845	5564001		4310	<1	11.4	<10	47.3	50	0.1	30.3	<0.5	310
4000N-8900E	668901	5563993		5720	<1	12.3	<10	26.9	30	0.1	47.5	<0.5	405
4000N-8950E	668947	5564001		4270	<1	11.3	<10	25.1	20	<0.1	35.2	<0.5	370
4000N-9000E	669000	5563999		2630	<1	7.3	<10	24.9	30	0.1	17	<0.5	198
4000N-9050E	669052	5563995		3900	<1	5.5	<10	27.1	110	0.3	12.4	<0.5	145
4000N-9100E	669100	5564000		3030	<1	8.2	<10	30.9	30	0.2	29.7	<0.5	220
4000N-9150E	669148	5563995		2900	<1	12.6	<10	21.2	20	<0.1	36.6	<0.5	378
4000N-9200E	669202	5563999		3240	<1	7.8	<10	28.5	30	<0.1	27.6	<0.5	240
4100N-8550E	668552	5564080		11100	<1	4.7	<10	29.5	60	<0.1	51.6	<0.5	149
4100N-8600E	668603	5564095		3920	<1	15.9	<10	42.1	70	<0.1	87.1	<0.5	442
4100N-8650E	668654	5564092		9050	<1	4.6	<10	19.3	90	0.2	36.5	<0.5	132
4100N-8700E	668701	5564099		8720	<1	11.4	<10	53.7	30	0.2	25.8	<0.5	336
4100N-8750E	668752	5564099		5070	<1	5.7	<10	14.8	60	0.1	31.1	<0.5	194
4100N-8800E	668800	5564100		6000	<1	14.3	<10	42.9	70	0.2	51.1	<0.5	447
4100N-8850E	668848	5564104		3130	<1	5.9	<10	22.8	70	<0.1	33.6	<0.5	174
4100N-8900E	668903	5564101		3960	<1	12.3	<10	28.8	70	0.2	58.7	<0.5	389
4100N-8950E	668954	5564104		2870	<1	10.3	<10	39.5	120	0.1	36.5	<0.5	286
4100N-9000E	669005	5564104		2330	<1	10.2	<10	33.3	40	0.1	29.2	<0.5	301
4100N-9050E	669050	5564107		2690	<1	9	<10	27.3	70	<0.1	26.6	<0.5	274
4100N-9100E	669100	5564104		3320	<1	2.5	<10	4.4	30	<0.1	31.9	<0.5	87
4100N-9150E	669151	5564107		2460	<1	7.7	<10	22	40	<0.1	27.2	<0.5	225
4100N-9200E	669201	5564094		2080	<1	8.9	<10	37.3	40	0.2	38.2	<0.5	275

Note: Lab method is SGS GE MMIM

MMI DATA
PEACOCK PROPERTY

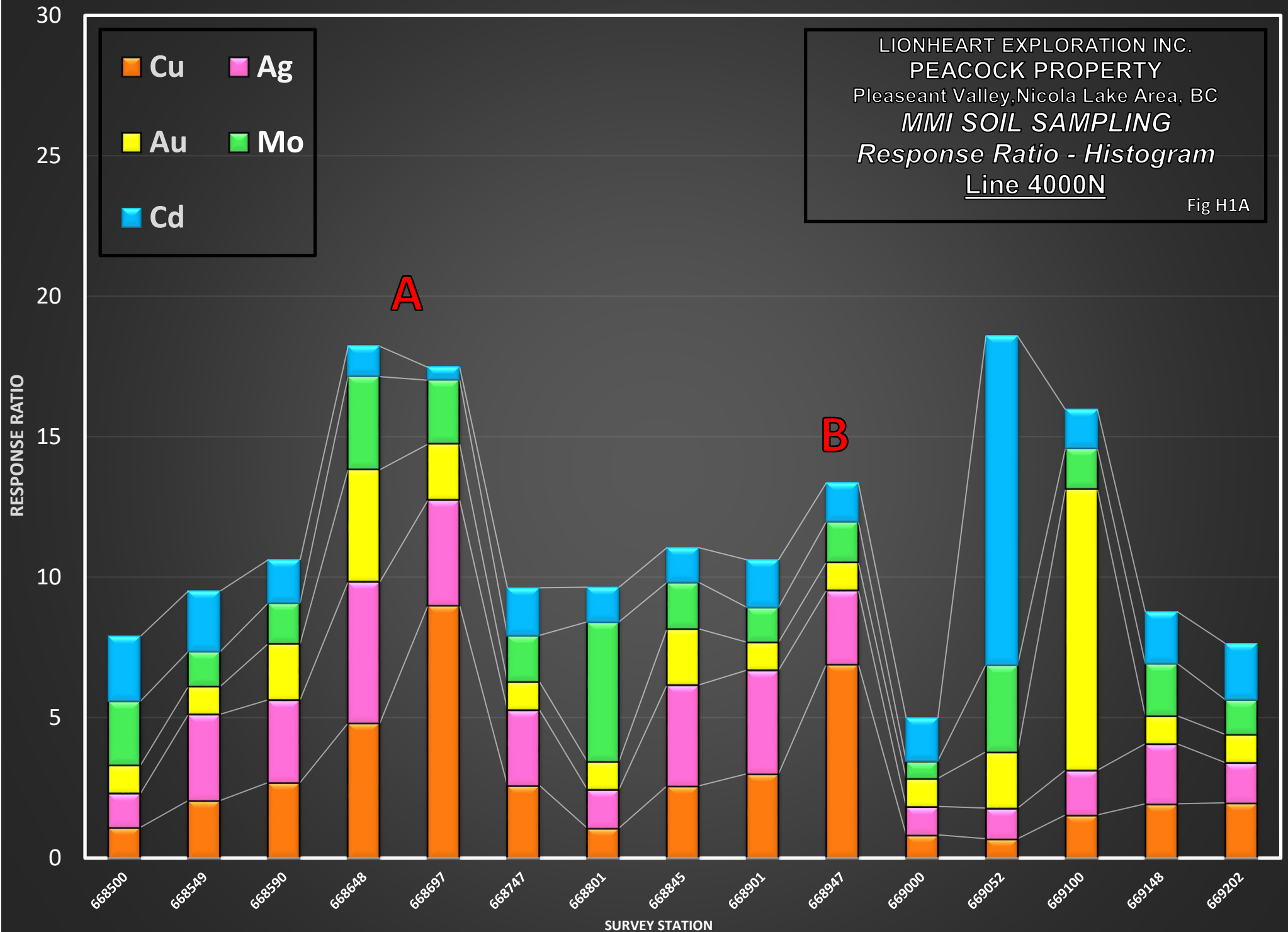
			ANALYTE	<u>Yb</u>	<u>Zn</u>	<u>Zr</u>
			DETECTION	0.2	10	2
<u>Sample ID.</u>	<u>Easting</u>	<u>Northing</u>	UNITS	ppb	ppb	ppb
4000N-8500E	668500	5563994		23.3	740	131
4000N-8550E	668549	5563994		26.9	550	125
4000N-8600E	668590	5563995		36.3	180	132
4000N-8650E	668648	5563997		0.7	50	19
4000N-8700E	668697	5564001		<0.2	40	9
4000N-8750E	668747	5564003		16	240	69
4000N-8800E	668801	5563997		17.5	300	46
4000N-8850E	668845	5564001		28.1	180	127
4000N-8900E	668901	5563993		35	250	80
4000N-8950E	668947	5564001		31.6	160	92
4000N-9000E	669000	5563999		20.5	930	154
4000N-9050E	669052	5563995		14.6	7480	168
4000N-9100E	669100	5564000		20.6	260	175
4000N-9150E	669148	5563995		35.5	390	114
4000N-9200E	669202	5563999		23.2	460	160
4100N-8550E	668552	5564080		13.7	480	67
4100N-8600E	668603	5564095		41.9	450	278
4100N-8650E	668654	5564092		12.7	1300	91
4100N-8700E	668701	5564099		29.5	80	65
4100N-8750E	668752	5564099		17	930	116
4100N-8800E	668800	5564100		53.2	510	209
4100N-8850E	668848	5564104		17.9	690	178
4100N-8900E	668903	5564101		35.7	610	172
4100N-8950E	668954	5564104		28.2	420	197
4100N-9000E	669005	5564104		29.3	340	272
4100N-9050E	669050	5564107		27.7	700	214
4100N-9100E	669100	5564104		10.4	100	72
4100N-9150E	669151	5564107		20.8	510	161
4100N-9200E	669201	5564094		22.7	300	179

Note: Lab method is SGS GE MMIM

16 APPENDIX II – MMI HISTOGRAMS

LIONHEART EXPLORATION INC.
PEACOCK PROPERTY
Pleasant Valley, Nicola Lake Area, BC
MMI SOIL SAMPLING
Response Ratio - Histogram
Line 400N

Fig H1A

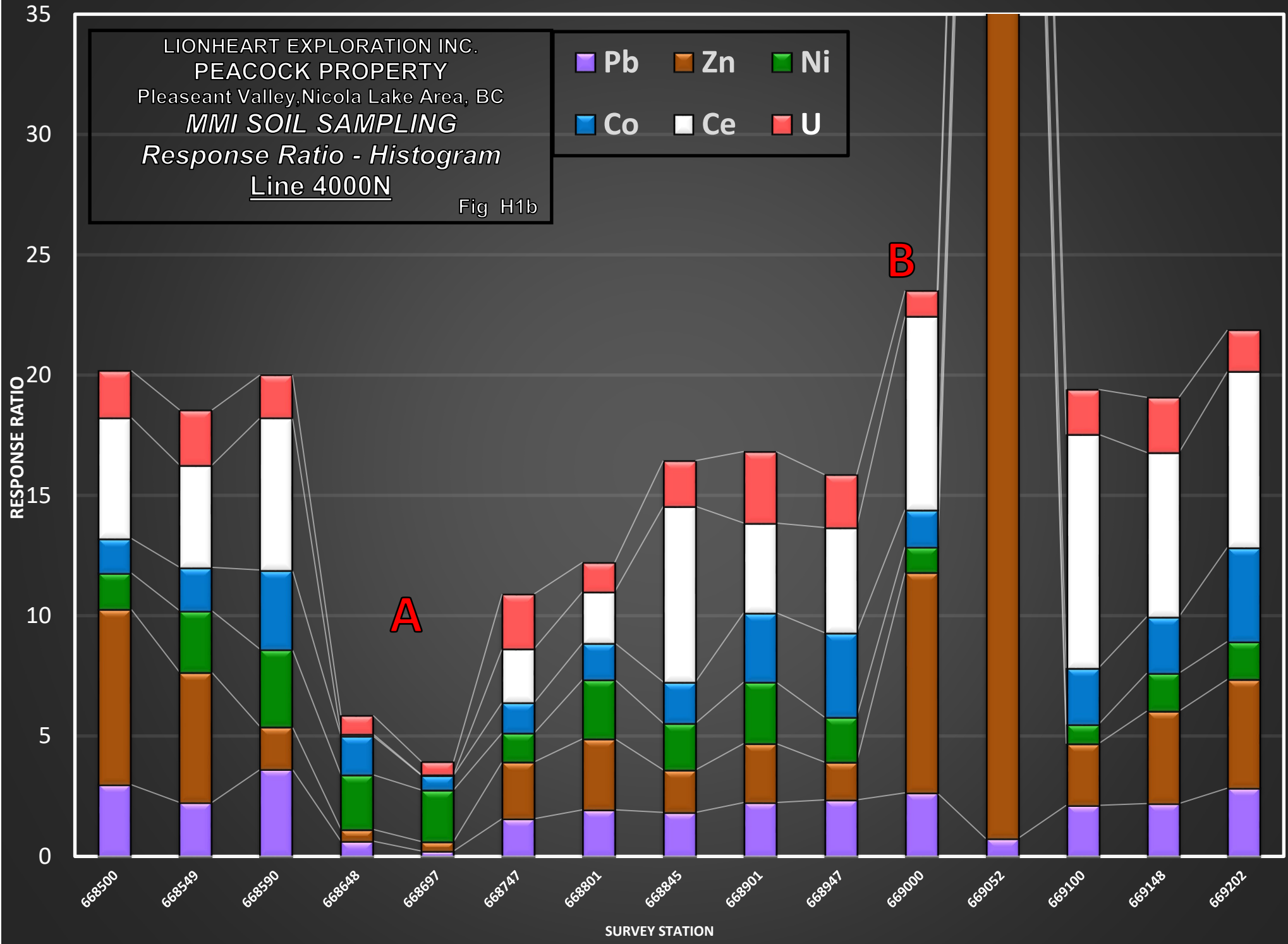
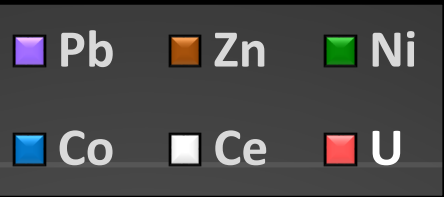


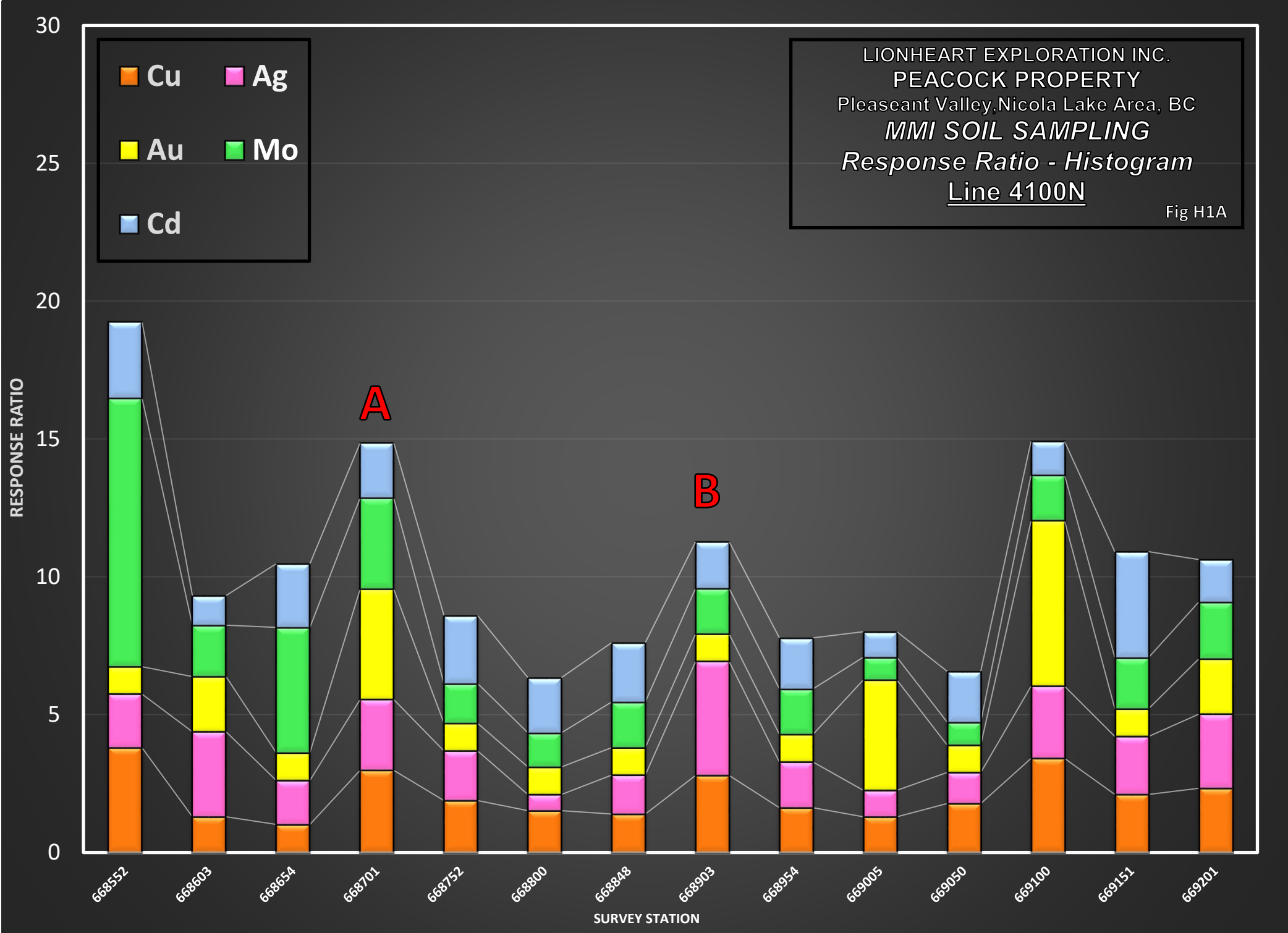
Data Reduced by: **GEOTRONICS CONSULTING INC.**

LIONHEART EXPLORATION INC.
PEACOCK PROPERTY
Pleasant Valley, Nicola Lake Area, BC

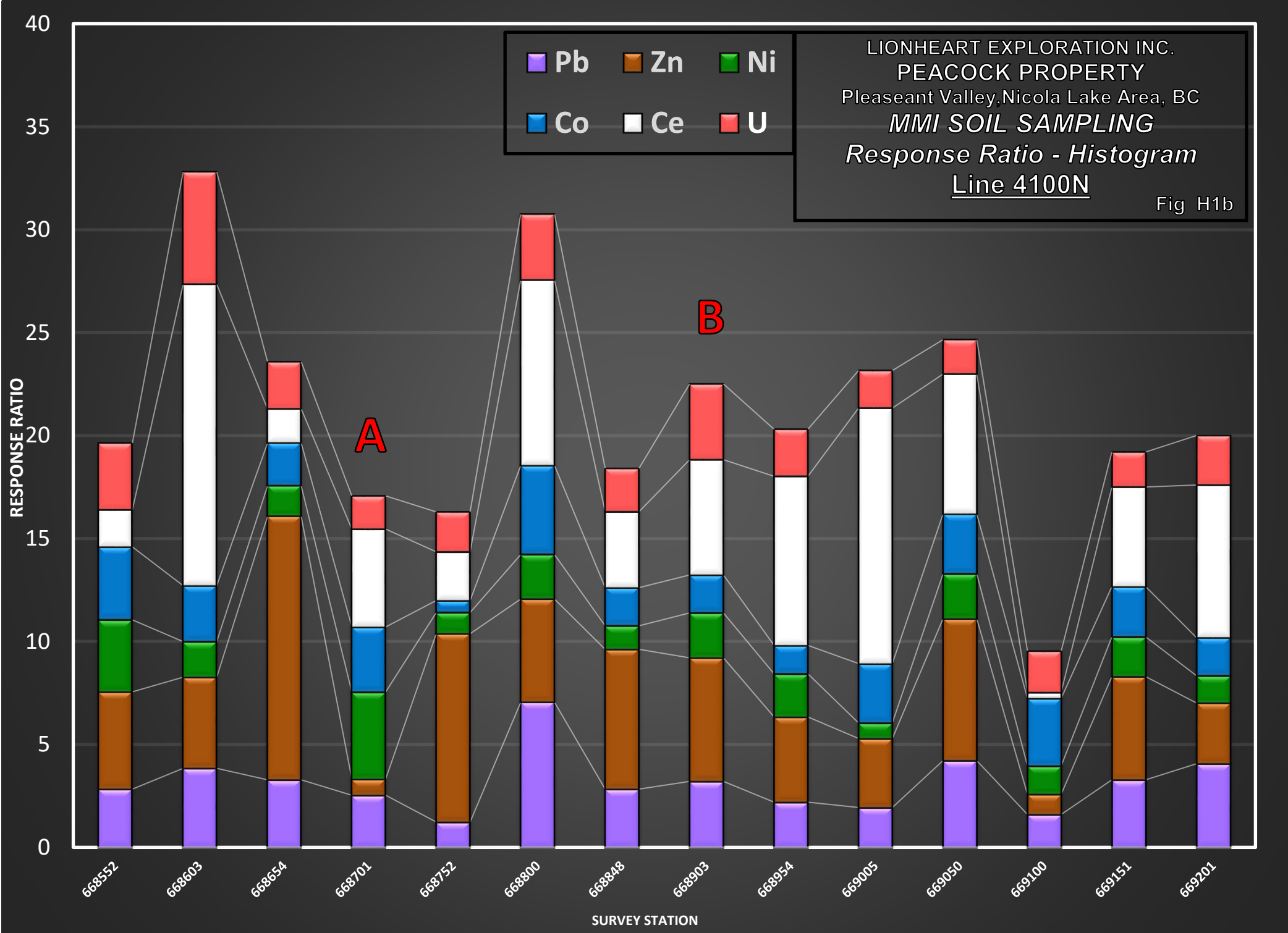
MMI SOIL SAMPLING
Response Ratio - Histogram
Line 4000N

Fig H1b

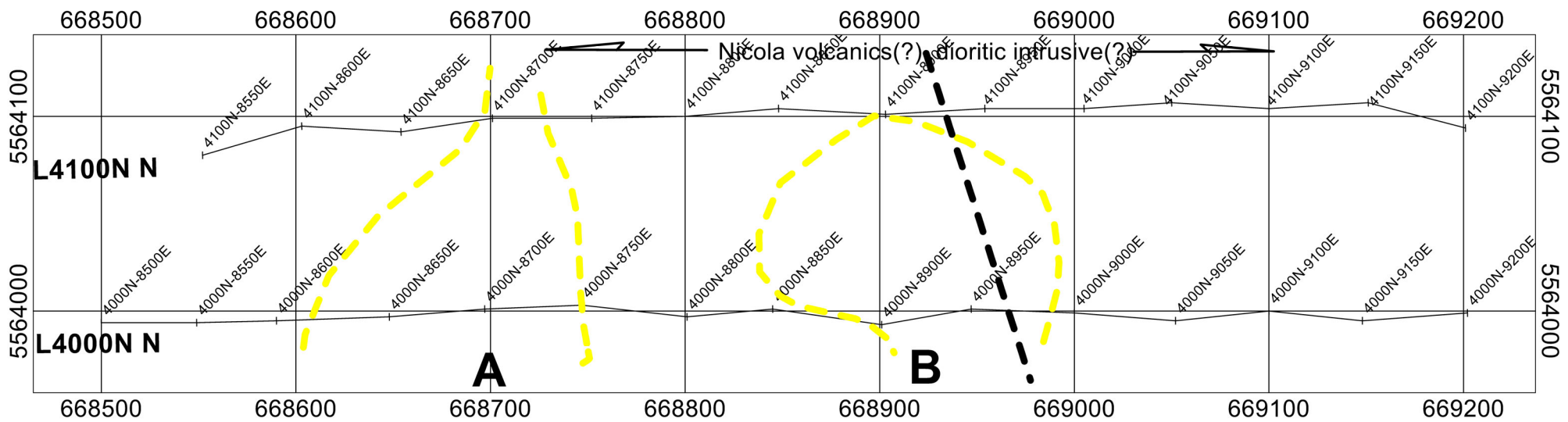
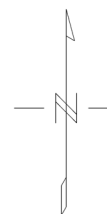




Data Reduced by: **GEOTRONICS CONSULTING INC.**



17 APPENDIX III – MMI SURVEY COLOUR PLAN MAPS

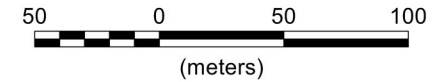


- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

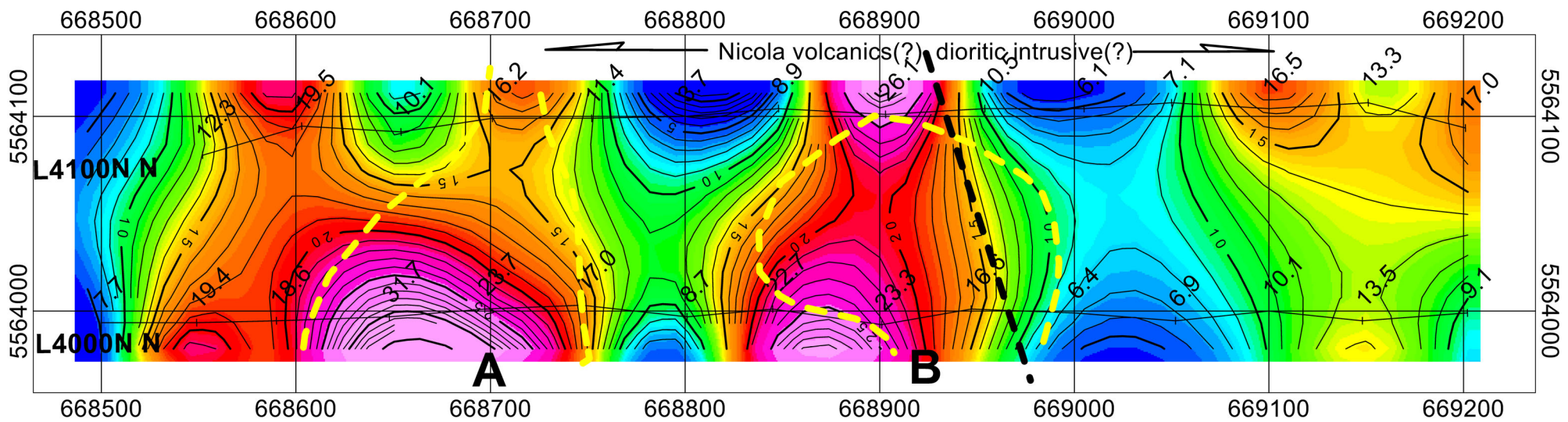
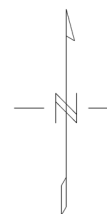
Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

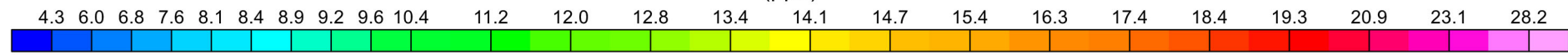
Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY				
SAMPLE LOCATION MAP				
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	92I/02	AUG '23	GC-01



Silver
(ppb)



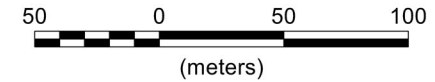
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

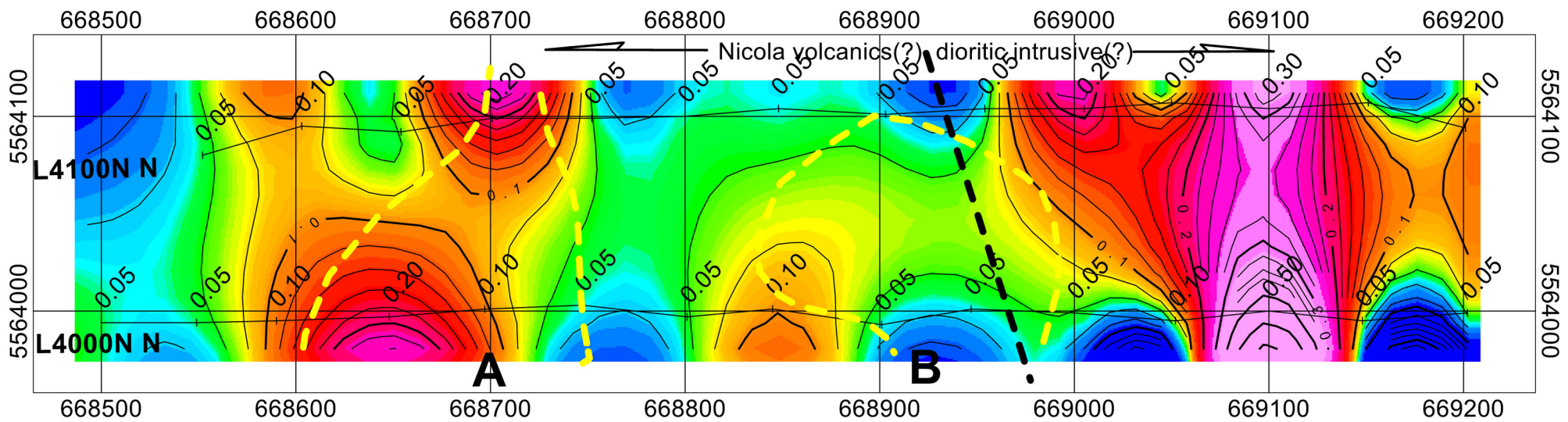
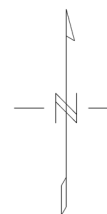
Coordinate system:
NAD 83, Zone 10



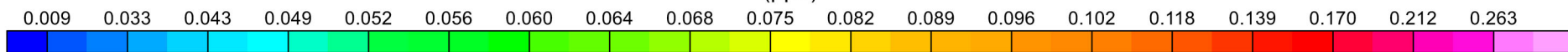
LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN SILVER				
DRAWN BY: DGM	JOB NO: 22-19	NTS: 921/02	DATE: AUG '23	FIG NO: GC-02



Geotronics Consulting Inc
Exploration done right



Gold
(ppb)



A

anomaly label



copper anomaly outline



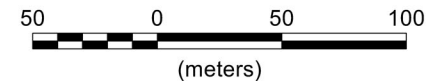
possible lithologic contact
as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

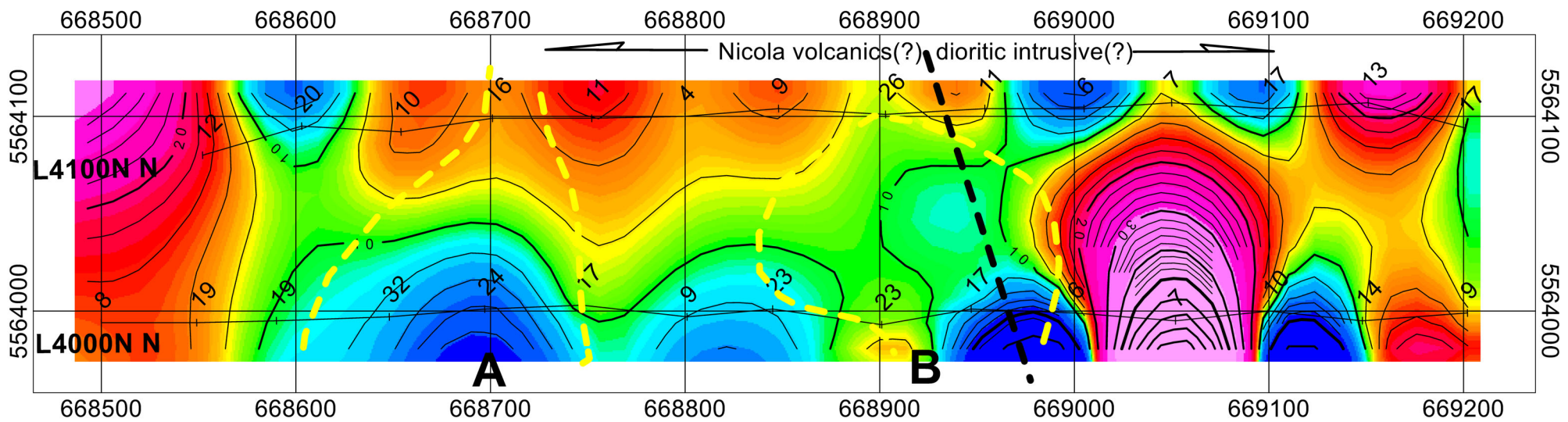
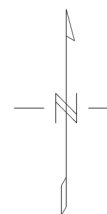
MMI SOIL SAMPLING SURVEY
CONTOUR PLAN

GOLD

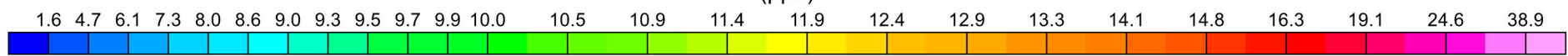
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-03



Geotronics Consulting Inc
Exploration done right



Cadmium
(ppb)



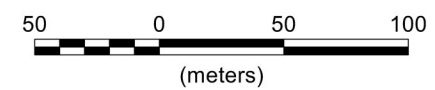
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

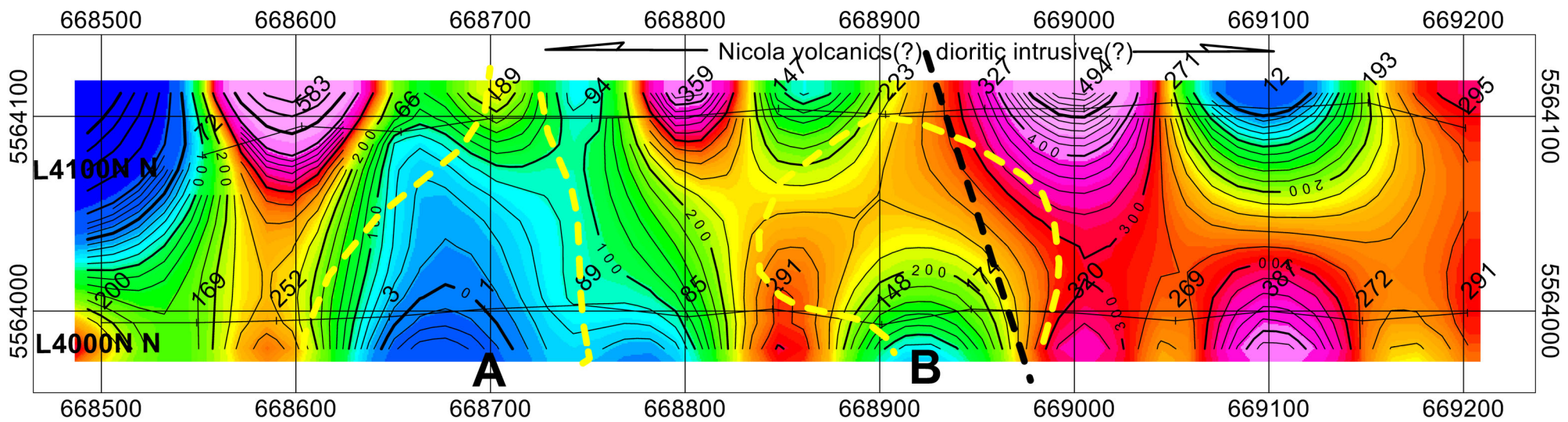
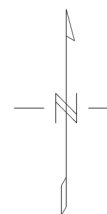
Coordinate system:
NAD 83, Zone 10



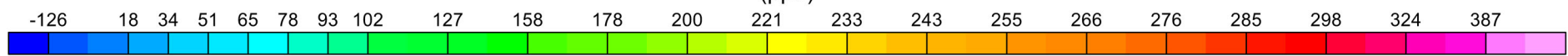
LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN CADMIUM				
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-04



Geotronics Consulting Inc
Exploration done right



Cerium
(ppb)



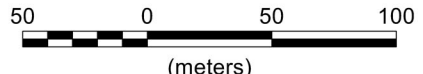
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

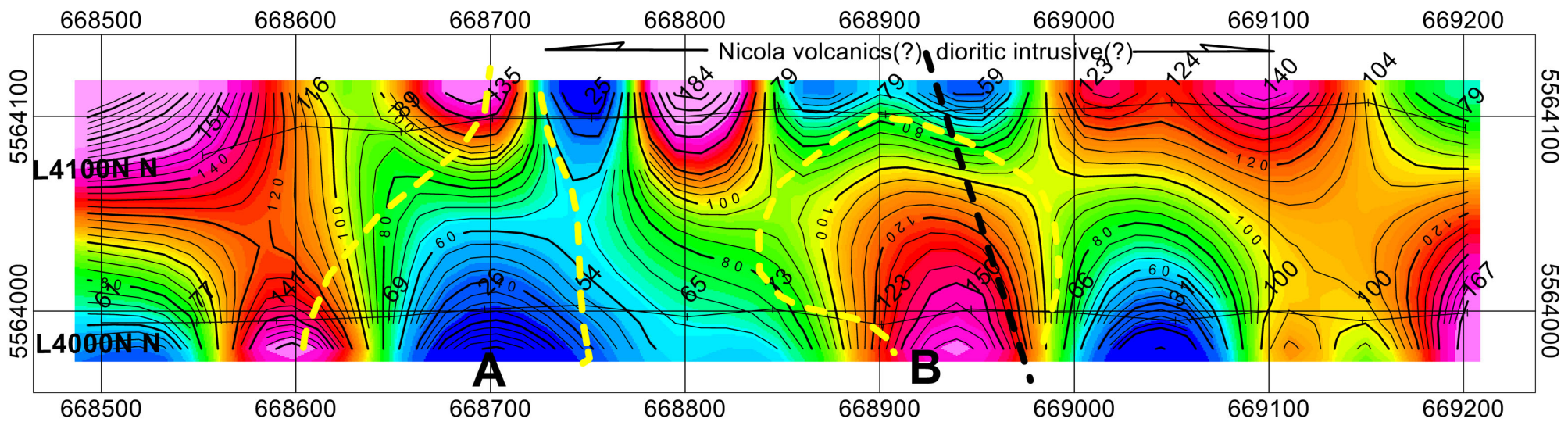
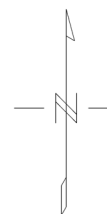
Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

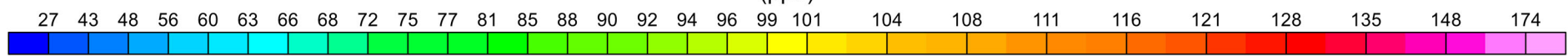
Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10





Cobalt
(ppb)



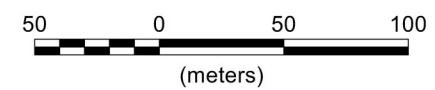
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

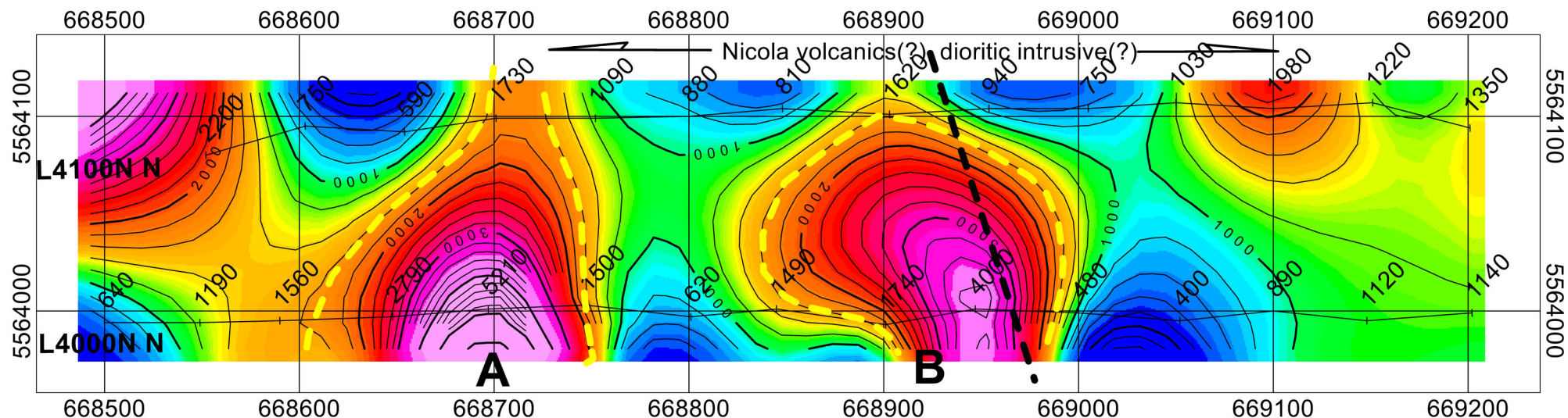
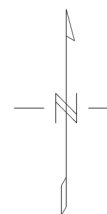
Coordinate system:
NAD 83, Zone 10



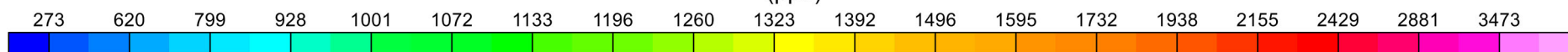
LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN COBALT				
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-06



Geotronics Consulting Inc
Exploration done right



Copper
(ppb)



A

anomaly label



copper anomaly outline



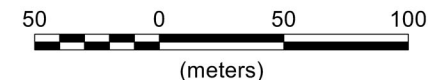
possible lithologic contact
as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

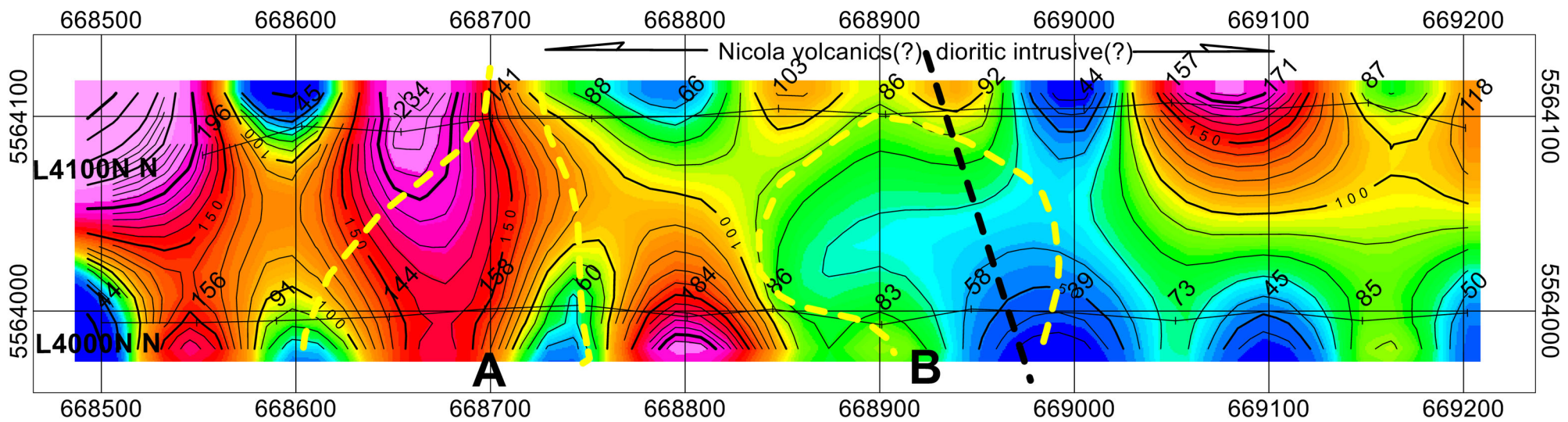
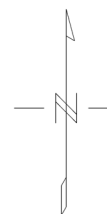
MMI SOIL SAMPLING SURVEY
CONTOUR PLAN

COPPER

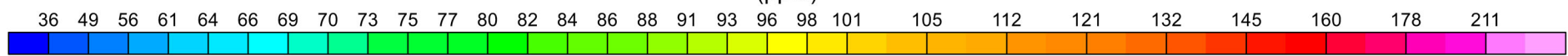
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-07



Geotronics Consulting Inc
Exploration done right



Potassium
(ppm)



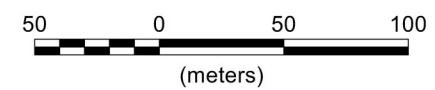
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

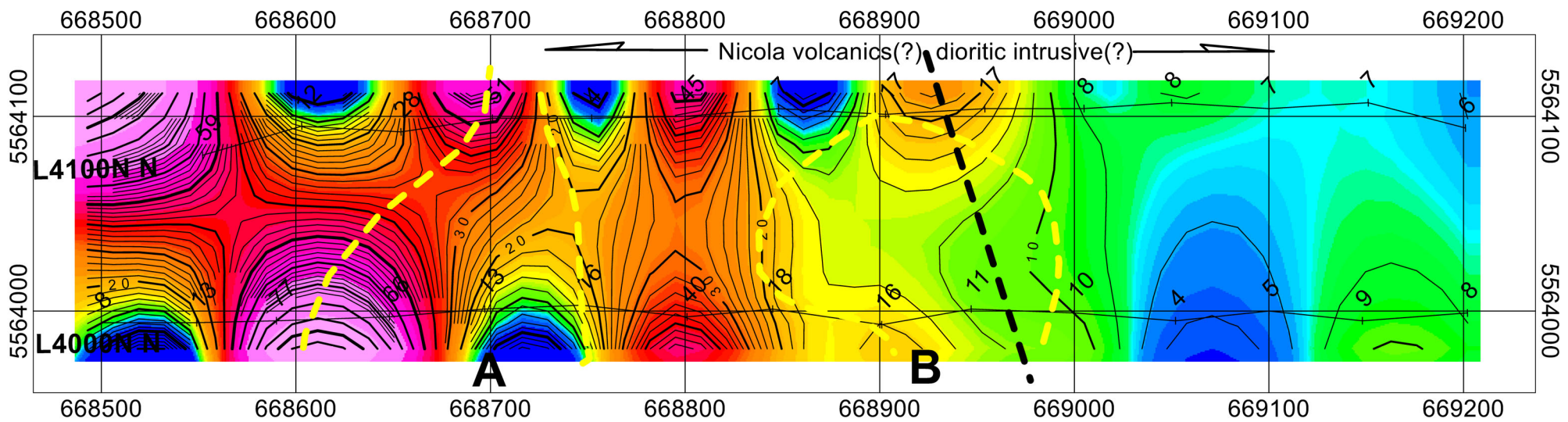
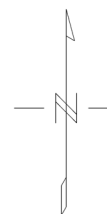
Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per million (ppm)

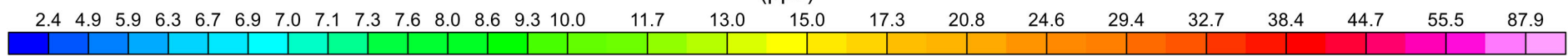
Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN POTASSIUM				
DRAWN BY: DGM	JOB NO: 22-19	NTS: 921/02	DATE: AUG '23	FIG NO: GC-08



Lithium
(ppb)



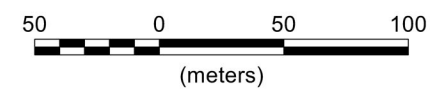
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

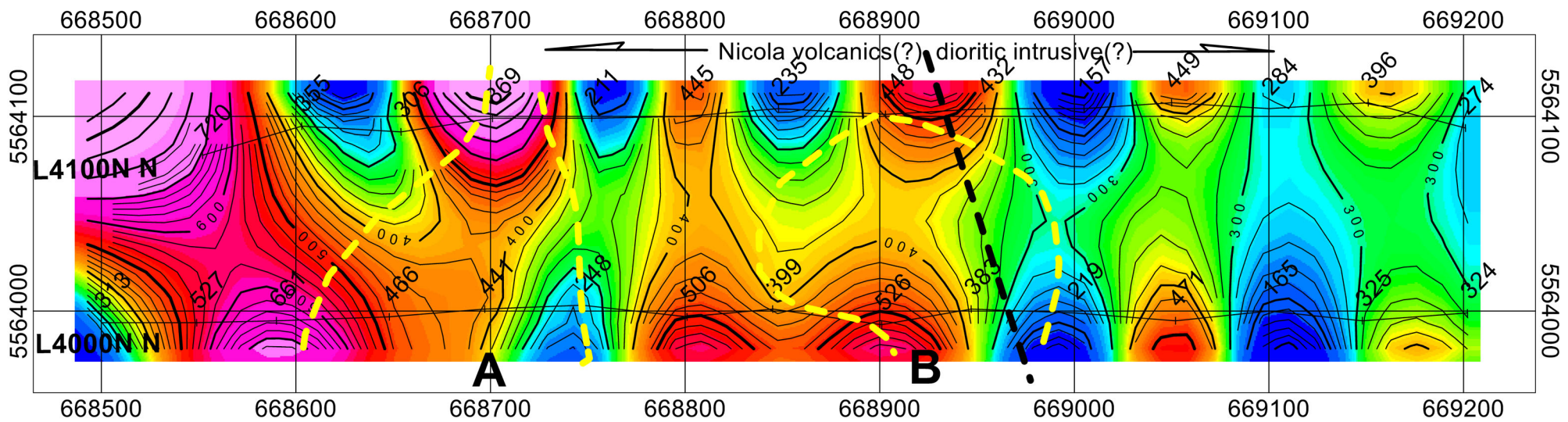
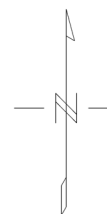
Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN LITHIUM				
DRAWN BY: DGM	JOB NO: 22-19	NTS: 921/02	DATE: AUG '23	FIG NO: GC-09



Geotronics Consulting Inc
Exploration done right



Nickel
(ppb)



A

anomaly label



copper anomaly outline



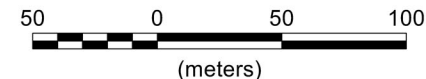
possible lithologic contact
as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

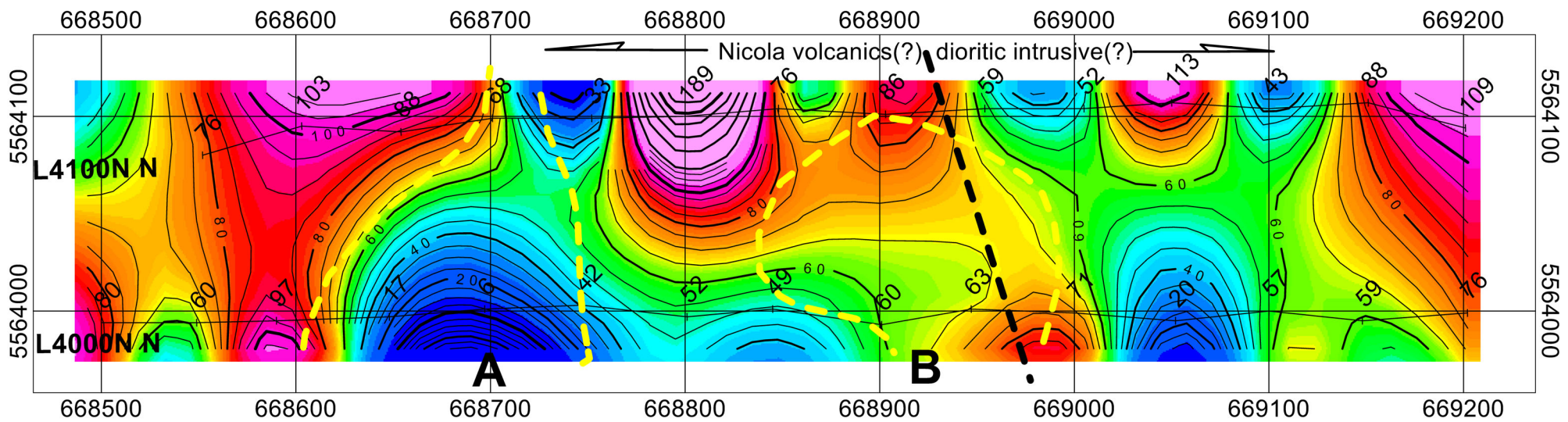
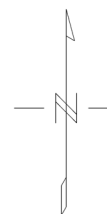
MMI SOIL SAMPLING SURVEY
CONTOUR PLAN

NICKEL

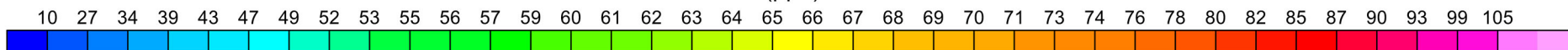
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-11



Geotronics Consulting Inc
Exploration done right



Lead
(ppb)



A

anomaly label



copper anomaly outline



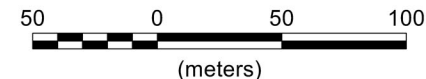
possible lithologic contact
as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

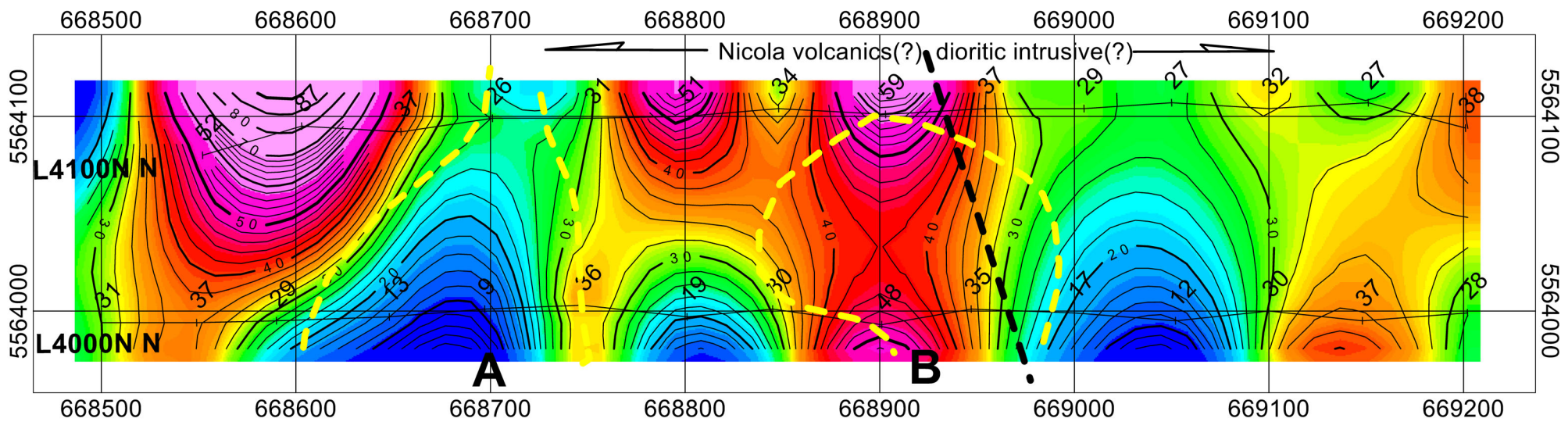
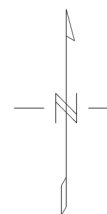
MMI SOIL SAMPLING SURVEY
CONTOUR PLAN

LEAD

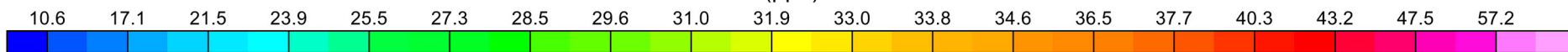
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-12



Geotronics Consulting Inc
Exploration done right



Uranium
(ppb)



A

anomaly label



copper anomaly outline



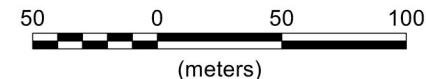
possible lithologic contact
as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.

PEACOCK PROPERTY

Peacock Mountain, Merritt Area, Nicola MD, BC

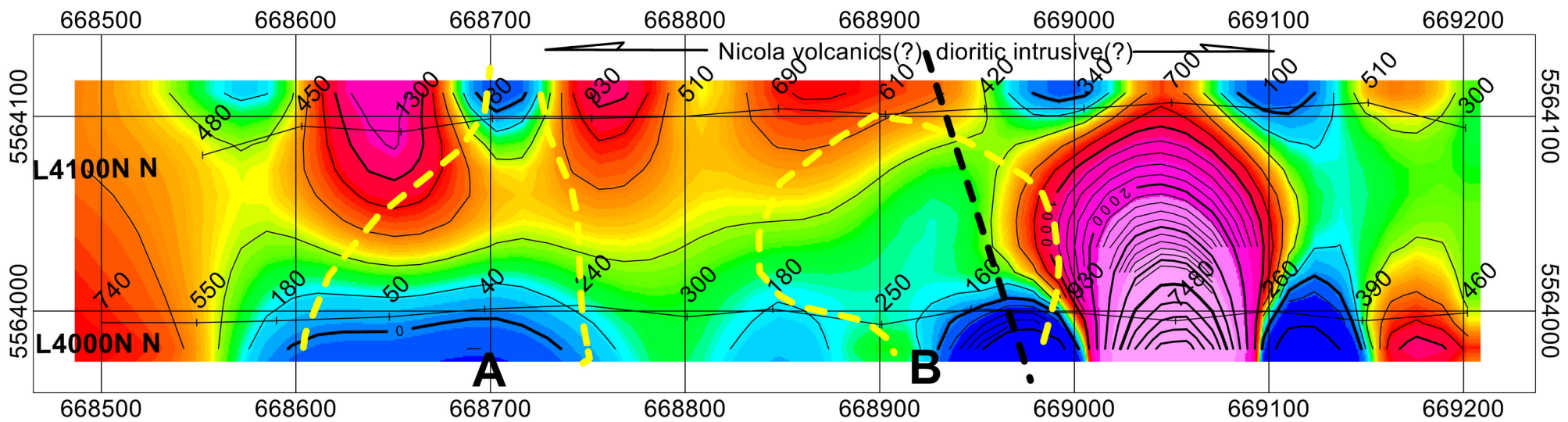
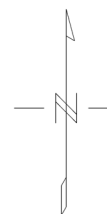
MMI SOIL SAMPLING SURVEY
CONTOUR PLAN

URANIUM

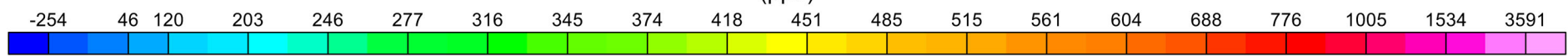
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-13



Geotronics Consulting Inc
Exploration done right



Zinc
(ppb)



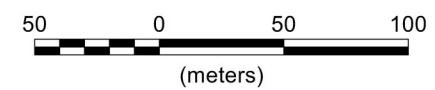
- A** anomaly label
- copper anomaly outline
- possible lithologic contact as mapped by cerium and nickel

Date samples picked up:
Oct 15 to 21, 2022

Laboratory soils tested by:
SGS Canada, Burnaby, BC

Units:
parts per billion (ppb)

Coordinate system:
NAD 83, Zone 10



LIONHEART EXPLORATION INC.				
PEACOCK PROPERTY				
Peacock Mountain, Merritt Area, Nicola MD, BC				
MMI SOIL SAMPLING SURVEY CONTOUR PLAN				
ZINC				
DRAWN BY:	JOB NO:	NTS:	DATE:	FIG NO:
DGM	22-19	921/02	AUG '23	GC-14



Geotronics Consulting Inc
Exploration done right



ANALYSIS REPORT BBM22-24409

To COD SGS MINERALS - GEOCHEM VANCOUVER
GEOTRONICS – DAVID MARK
SGS CANADA INC
3260 PRODUCTION WAY
BURNABY V5A 4W4
BC
CANADA

Order Number	GEOTRONICS	Date Received	15-Nov-2022
Project	Geotronics Consulting Inc.	Date Analysed	06-Dec-2022 - 11-Mar-2023
Submission Number	GEOTRONICS/ 321 Soils (197-321)	Date Completed	11-Mar-2023
Number of Samples	125	SGS Order Number	BBM22-24409

Methods Summary

Number of Sample	Method Code	Description
125	G_WGH_KG	Weight of samples received
125	GE_MMIM	Mobile Metal ION standard package, ICP-MS

Authorised Signatory

John Chiang
Laboratory Operations Manager

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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

12-Mar-2023 8:52PM BBM_U0037459093

Page 1 of 46

MIN-M_COA_ROW-Last Modified Date: 05-Nov-2019



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	WTKG G_WGH_KG 0.01 -- kg	Ag GE_MMIM 0.5 -- ppb	Al GE_MMIM 1 -- ppm m / m	As GE_MMIM 10 -- ppb	Au GE_MMIM 0.1 -- ppb	Ba GE_MMIM 10 -- ppb
HC1500-2	0.27	12.1	225	10	<0.1	200
HC1500-3	0.26	11.2	255	20	<0.1	530
HC1500-4	0.25	6.4	190	20	<0.1	1070
HC1500-5	0.26	12.2	225	<10	<0.1	90
HC1500-6	0.24	8.9	272	10	<0.1	170
HC1500-7	0.30	9.0	285	10	<0.1	210
HC1500-9	0.24	5.5	226	<10	<0.1	90
HC1500-10	0.29	3.6	259	10	<0.1	130
HC1500-11	0.29	10.9	143	<10	0.4	90
HC1500-12	0.35	13.7	284	110	0.7	4180
HC1500-13	0.21	5.2	215	<10	<0.1	130
HC1500-14	0.21	15.6	171	10	0.1	300
HC1500-15	0.35	8.0	170	60	0.4	2080
HC1500-16	0.29	16.1	315	20	0.1	270
HC1600-1	0.21	26.5	197	50	0.2	400
HC1600-2	0.23	19.4	246	120	0.2	740
HC1600-3	0.24	4.9	193	<10	<0.1	360
HC1600-4	0.28	7.7	199	50	0.3	2660
HC1600-5	0.30	13.1	181	50	0.5	1890
HC1600-6	0.33	8.8	242	70	0.4	2070
HC1600-7	0.27	10.4	208	20	0.1	1060
HC1600-8	0.27	10.4	287	110	0.6	320
HC1600-9	0.34	8.8	155	110	0.8	2540
HC1600-9	0.27	7.7	234	100	0.5	2920
HC1600-10	0.30	10.4	225	120	0.8	3290
HC1600-11	0.29	4.8	221	60	0.4	1070
HC1600-12	0.25	24.5	208	20	0.2	150
HC1600-13	0.22	19.4	232	30	<0.1	420
HC1600-14	0.26	5.0	123	60	0.2	1920

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	WTKG G_WGH_KG 0.01 -- kg	Ag GE_MMIM 0.5 -- ppb	Al GE_MMIM 1 -- ppm m / m	As GE_MMIM 10 -- ppb	Au GE_MMIM 0.1 -- ppb	Ba GE_MMIM 10 -- ppb
HC1700-1	0.22	12.5	271	20	<0.1	150
HC1700-2	0.29	16.3	321	80	0.4	780
HC1700-3	0.21	3.0	256	60	<0.1	560
HC1700-4	0.28	8.3	315	60	0.2	360
HC1700-5	0.24	10.3	263	80	0.2	420
HC1700-6	0.28	5.6	233	90	<0.1	460
HC1700-7	0.26	18.1	208	20	0.3	370
HC1700-8	0.20	12.6	170	100	0.4	1600
HC1700-9	0.25	6.1	248	90	0.2	1390
HC1700-10	0.19	9.6	274	60	0.3	950
HC1700-11	0.24	4.7	134	50	0.3	1250
HC1700-12	0.23	11.6	282	60	0.4	600
HC1700-13	0.24	14.0	331	110	0.2	1020
HC1800-1	0.29	13.2	245	30	<0.1	150
HC1800-2	0.25	8.0	256	40	<0.1	140
HC1800-3	0.23	15.0	151	20	<0.1	240
HC1800-4	0.27	8.0	221	10	0.1	80
HC1800-5	0.28	17.8	195	20	0.1	60
HC1800-6	0.27	11.1	270	80	0.3	230
HC1800-7	0.39	9.0	187	110	0.7	3130
HC1800-8	0.23	10.7	297	40	0.2	620
HC1800-9	0.22	9.1	309	30	<0.1	190
HC1800-10	0.18	13.1	316	30	0.2	470
HC1800-11	0.20	14.3	296	30	0.2	420
HC1800-12	0.19	15.2	320	80	0.2	240
HC1900-1	0.28	11.8	230	70	<0.1	470
HC1900-2	0.21	5.8	288	100	<0.1	510
HC1900-3	0.21	6.8	250	60	0.1	460
HC1900-4	0.20	5.1	266	120	0.3	470

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
Project Geotronics Consulting Inc.
Submission Number GEOTRONICS/ 321 Soils (197-321)
Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	WTKG G_WGH_KG 0.01 -- kg	Ag GE_MMIM 0.5 -- ppb	Al GE_MMIM 1 -- ppm m / m	As GE_MMIM 10 -- ppb	Au GE_MMIM 0.1 -- ppb	Ba GE_MMIM 10 -- ppb
HC1900-5	0.39	19.8	162	420	0.5	1950
HC1900-6	0.25	15.2	245	30	0.4	1040
HC1900-7	0.23	18.2	241	150	<0.1	1080
HC1900-8	0.22	18.4	200	70	<0.1	690
HC1900-9	0.23	26.9	220	40	0.2	930
HC2000-1	0.34	7.7	158	90	0.1	1250
HC2000-2	0.28	7.6	269	60	<0.1	210
HC2000-3	0.26	4.4	357	150	0.2	420
HC2000-4	0.29	4.7	327	130	0.3	620
HC2000-5	0.19	2.6	165	50	0.2	1790
HC2000-6	0.24	14.8	272	50	0.1	710
HC2000-7	0.28	14.1	209	60	0.1	510
HC2000-9	0.33	10.4	217	130	0.4	2830
HC2100-1	0.35	5.3	225	80	0.4	3140
HC2100-2	0.35	17.8	222	40	0.3	1130
HC2100-3	0.33	10.3	176	100	0.4	2430
HC2100-4	0.25	19.8	239	90	0.2	1210
HC2100-5	0.28	18.6	374	80	0.3	4040
HC2100-6	0.22	10.0	237	10	<0.1	120
HC2100-7	0.29	33.0	231	40	0.1	910
HC2100-8	0.24	13.0	293	30	<0.1	250
HC2200-1	0.21	10.6	290	90	0.5	1760
HC2200-2	0.21	7.2	309	40	0.1	420
HC2200-3	0.22	8.9	339	70	<0.1	320
HC2200-4	0.20	5.4	228	40	<0.1	410
HC2200-5	0.15	9.5	216	10	<0.1	120
HC2200-6	0.19	0.5	268	30	<0.1	560
HC0100-25	0.27	22.4	225	<10	<0.1	970
HC0200-01	0.29	4.5	268	40	<0.1	700

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Order Number GEOTRONICS
Project Geotronics Consulting Inc.
Submission Number GEOTRONICS/ 321 Soils (197-321)
Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	WTKG G_WGH_KG 0.01 -- kg	Ag GE_MMIM 0.5 -- ppb	Al GE_MMIM 1 -- ppm m / m	As GE_MMIM 10 -- ppb	Au GE_MMIM 0.1 -- ppb	Ba GE_MMIM 10 -- ppb
HC0200-12	0.27	5.6	338	90	<0.1	1100
HC0300-01	0.31	19.1	250	<10	<0.1	160
HC0300-10	0.22	17.7	321	30	<0.1	700
HC0400-01	0.32	20.9	317	<10	0.2	1940
HC0500-01	0.21	2.8	289	<10	<0.1	330
HC0700-01	0.28	5.6	417	50	<0.1	1780
HC1400-01	0.23	3.1	290	70	<0.1	1000
HC1500-08	0.27	4.7	293	70	<0.1	1110
HC2000-08	0.22	25.4	54	<10	0.4	40
4000N-8500E	0.29	7.7	52	<10	<0.1	6490
4000N-8550E	0.31	19.4	32	<10	<0.1	4310
4000N-8600E	0.27	18.6	43	<10	0.1	4540
4000N-8650E	0.28	31.7	6	<10	0.2	1680
4000N-8700E	0.27	23.7	6	<10	0.1	3220
4000N-8750E	0.29	17.0	30	<10	<0.1	7100
4000N-8800E	0.31	8.7	37	<10	<0.1	3990
4000N-8850E	0.28	22.7	42	<10	0.1	3530
4000N-8900E	0.30	23.3	35	<10	<0.1	6780
4000N-8950E	0.27	16.6	32	<10	<0.1	9710
4000N-9000E	0.29	6.4	71	<10	<0.1	8420
4000N-9050E	0.22	6.9	66	<10	0.1	10700
4000N-9100E	0.33	10.1	37	<10	0.5	5830
4000N-9150E	0.28	13.5	32	<10	<0.1	5190
4000N-9200E	0.29	9.1	48	<10	<0.1	8950
4100N-8550E	0.20	12.3	18	<10	<0.1	2630
4100N-8600E	0.31	19.5	56	<10	0.1	3680
4100N-8650E	0.26	10.1	25	10	<0.1	2790
4100N-8700E	0.31	16.2	33	<10	0.2	3670
4100N-8750E	0.34	11.4	67	<10	<0.1	3170

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Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	WTKG G_WGH_KG 0.01 -- kg	Ag GE_MMIM 0.5 -- ppb	Al GE_MMIM 1 -- ppm m / m	As GE_MMIM 10 -- ppb	Au GE_MMIM 0.1 -- ppb	Ba GE_MMIM 10 -- ppb
4100N-8800E	0.35	3.7	81	<10	<0.1	2800
4100N-8850E	0.30	8.9	70	<10	<0.1	2240
4100N-8900E	0.32	26.1	57	<10	<0.1	3320
4100N-8950E	0.30	10.5	61	<10	<0.1	4090
4100N-9000E	0.38	6.1	56	<10	0.2	6670
4100N-9050E	0.30	7.1	76	10	<0.1	8620
4100N-9100E	0.28	16.5	22	<10	0.3	8850
4100N-9150E	0.28	13.3	46	<10	<0.1	5140
4100N-9200E	0.32	17.0	38	<10	0.1	7000
*Rep HC0400-01	-	18.8	329	<10	0.2	2070
*Rep 4000N-8900E	-	21.3	33	<10	<0.1	6700
*Rep 4100N-8800E	-	4.9	81	<10	<0.1	2710
*Rep HC2000-2	-	7.0	246	50	<0.1	200
*Rep HC2000-7	-	14.1	220	60	0.2	540
*Blk BLANK	-	<0.5	<1	<10	<0.1	<10
*Std MMISRM19	-	28.0	28	10	6.5	1520
*Rep HC1500-11	-	10.7	148	<10	0.3	70
*Blk BLANK	-	<0.5	<1	<10	<0.1	<10
*Rep HC1600-14	-	5.7	142	60	0.2	2060
*Std MMISRM24	-	18.5	36	<10	3.6	100
*Rep HC1800-5	-	15.4	156	<10	0.2	50

Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
HC1500-2	<0.5	2	23	40	7	<100
HC1500-3	<0.5	<2	18	24	21	<100

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 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
HC1500-4	<0.5	51	43	56	24	<100
HC1500-5	<0.5	<2	21	23	32	<100
HC1500-6	<0.5	2	14	41	19	<100
HC1500-7	<0.5	5	17	59	49	<100
HC1500-9	<0.5	<2	28	9	27	<100
HC1500-10	<0.5	4	41	29	31	<100
HC1500-11	<0.5	3	4	86	21	<100
HC1500-12	<0.5	47	12	181	149	100
HC1500-13	<0.5	4	9	9	25	<100
HC1500-14	<0.5	5	31	88	124	<100
HC1500-15	<0.5	51	8	119	98	<100
HC1500-16	<0.5	<2	17	44	26	100
HC1600-1	<0.5	3	13	25	24	<100
HC1600-2	<0.5	34	11	90	80	<100
HC1600-3	<0.5	60	25	22	14	<100
HC1600-4	<0.5	86	8	318	108	<100
HC1600-5	<0.5	85	15	157	87	<100
HC1600-6	<0.5	38	14	197	159	<100
HC1600-7	<0.5	8	15	81	56	<100
HC1600-8	<0.5	<2	19	57	360	<100
HC1600-9	<0.5	57	5	169	170	<100
HC1600-9	0.8	53	14	132	207	<100
HC1600-10	<0.5	73	10	150	117	100
HC1600-11	0.6	60	12	101	184	<100
HC1600-12	<0.5	8	19	66	35	<100
HC1600-13	<0.5	11	31	60	233	<100
HC1600-14	<0.5	90	8	85	106	<100
HC1700-1	<0.5	6	32	39	54	<100
HC1700-2	<0.5	2	11	70	45	<100

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
HC1700-3	4.1	35	24	49	46	100
HC1700-4	<0.5	3	11	46	45	200
HC1700-5	<0.5	7	17	135	406	<100
HC1700-6	1.1	3	9	106	52	<100
HC1700-7	<0.5	<2	18	36	41	<100
HC1700-8	<0.5	140	9	149	90	<100
HC1700-9	0.5	75	14	153	585	100
HC1700-10	<0.5	24	19	103	148	<100
HC1700-11	<0.5	215	17	37	90	<100
HC1700-12	<0.5	36	13	68	73	<100
HC1700-13	<0.5	10	16	139	286	100
HC1800-1	<0.5	11	18	46	30	<100
HC1800-2	0.5	6	28	18	31	<100
HC1800-3	<0.5	20	27	37	77	<100
HC1800-4	<0.5	8	18	19	48	<100
HC1800-5	<0.5	2	16	44	49	<100
HC1800-6	<0.5	10	13	147	33	100
HC1800-7	<0.5	19	5	181	98	<100
HC1800-8	<0.5	29	21	72	57	<100
HC1800-9	<0.5	9	17	28	32	<100
HC1800-10	<0.5	4	16	44	34	100
HC1800-11	<0.5	3	21	52	38	<100
HC1800-12	<0.5	3	22	78	20	100
HC1900-1	<0.5	25	31	29	86	<100
HC1900-2	<0.5	18	27	57	125	<100
HC1900-3	<0.5	8	31	30	688	<100
HC1900-4	<0.5	4	10	53	33	200
HC1900-5	0.6	55	6	337	114	100
HC1900-6	<0.5	43	6	66	45	<100

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
HC1900-7	<0.5	78	16	54	111	<100
HC1900-8	<0.5	12	21	33	187	<100
HC1900-9	<0.5	55	12	29	87	<100
HC2000-1	0.6	162	12	37	286	<100
HC2000-2	1.0	3	19	31	81	<100
HC2000-3	<0.5	14	14	65	207	100
HC2000-4	<0.5	25	9	102	221	<100
HC2000-5	<0.5	84	90	38	63	<100
HC2000-6	<0.5	67	32	53	93	<100
HC2000-7	<0.5	41	11	62	33	<100
HC2000-9	<0.5	111	11	169	199	100
HC2100-1	0.8	97	11	250	204	<100
HC2100-2	<0.5	63	14	93	87	<100
HC2100-3	<0.5	119	8	197	413	100
HC2100-4	<0.5	72	9	132	78	<100
HC2100-5	<0.5	12	10	146	83	100
HC2100-6	<0.5	<2	7	19	7	<100
HC2100-7	<0.5	61	20	50	304	<100
HC2100-8	<0.5	<2	14	26	27	<100
HC2200-1	<0.5	45	15	151	186	100
HC2200-2	<0.5	15	15	42	85	<100
HC2200-3	<0.5	10	15	64	66	<100
HC2200-4	1.1	143	43	23	56	<100
HC2200-5	<0.5	<2	10	17	21	<100
HC2200-6	1.1	32	5	7	11	<100
HC0100-25	<0.5	3	21	44	59	<100
HC0200-01	1.5	2	4	19	39	100
HC0200-12	1.1	<2	2	91	27	600
HC0300-01	<0.5	7	11	22	20	<100

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Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
HC0300-10	<0.5	4	15	37	47	100
HC0400-01	<0.5	7	10	17	44	100
HC0500-01	<0.5	<2	12	18	47	<100
HC0700-01	<0.5	12	23	86	148	100
HC1400-01	2.0	18	27	40	124	<100
HC1500-08	1.3	34	40	73	62	100
HC2000-08	<0.5	<2	9	10	12	<100
4000N-8500E	<0.5	597	15	200	61	<100
4000N-8550E	<0.5	454	14	169	77	<100
4000N-8600E	<0.5	509	10	252	141	<100
4000N-8650E	<0.5	596	7	3	69	<100
4000N-8700E	<0.5	703	3	<2	26	<100
4000N-8750E	<0.5	505	11	89	54	<100
4000N-8800E	<0.5	509	8	85	65	<100
4000N-8850E	<0.5	423	8	291	73	<100
4000N-8900E	<0.5	663	11	148	123	<100
4000N-8950E	<0.5	784	9	174	150	<100
4000N-9000E	<0.5	463	10	320	66	<100
4000N-9050E	<0.5	713	76	269	31	<100
4000N-9100E	<0.5	518	9	387	100	<100
4000N-9150E	<0.5	580	12	272	100	<100
4000N-9200E	<0.5	595	13	291	167	<100
4100N-8550E	<0.5	305	18	72	151	<100
4100N-8600E	<0.5	284	7	583	116	<100
4100N-8650E	<0.5	282	15	66	89	<100
4100N-8700E	<0.5	452	13	189	135	<100
4100N-8750E	<0.5	375	16	94	25	<100
4100N-8800E	<0.5	371	13	359	184	<100
4100N-8850E	<0.5	409	14	147	79	<100

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Bi GE_MMIM 0.5 -- ppb	Ca GE_MMIM 2 -- ppm m / m	Cd GE_MMIM 1 -- ppb	Ce GE_MMIM 2 -- ppb	Co GE_MMIM 1 -- ppb	Cr GE_MMIM 100 -- ppb
4100N-8900E	<0.5	477	11	223	79	<100
4100N-8950E	<0.5	436	12	327	59	<100
4100N-9000E	<0.5	451	6	494	123	<100
4100N-9050E	<0.5	532	12	271	124	<100
4100N-9100E	<0.5	779	8	12	140	<100
4100N-9150E	<0.5	568	25	193	104	<100
4100N-9200E	<0.5	450	10	295	79	<100
*Rep HC0400-01	0.5	7	9	16	46	100
*Rep 4000N-8900E	<0.5	640	9	180	106	<100
*Rep 4100N-8800E	<0.5	371	13	347	184	<100
*Rep HC2000-2	0.9	3	18	28	75	<100
*Rep HC2000-7	<0.5	40	12	63	37	<100
*Blk BLANK	<0.5	<2	<1	<2	<1	<100
*Std MMISRM19	<0.5	822	44	<2	526	<100
*Rep HC1500-11	<0.5	3	4	89	25	<100
*Blk BLANK	<0.5	<2	<1	<2	<1	<100
*Rep HC1600-14	<0.5	108	10	96	115	<100
*Std MMISRM24	<0.5	55	6	48	17	<100
*Rep HC1800-5	<0.5	<2	16	36	39	<100

Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
HC1500-2	8.3	160	19.3	11.9	2.3	31
HC1500-3	21.3	260	4.1	3.8	0.5	119
HC1500-4	6.2	180	25.3	14.5	3.7	21
HC1500-5	8.7	140	8.7	6.4	0.9	54

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Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
HC1500-6	2.9	70	14.6	11.7	1.6	91
HC1500-7	10.2	170	15.1	8.4	2.7	29
HC1500-9	5.4	120	5.4	4.8	0.4	48
HC1500-10	12.4	450	13.6	8.6	1.5	23
HC1500-11	8.1	330	22.4	13.9	5.7	4
HC1500-12	6.3	1600	30.5	15.8	9.3	73
HC1500-13	3.8	190	2.8	2.5	0.4	62
HC1500-14	12.5	590	30.1	18.9	5.1	29
HC1500-15	4.1	570	14.9	7.5	4.8	43
HC1500-16	23.0	310	9.5	6.3	1.7	96
HC1600-1	9.0	310	13.1	8.1	2.0	60
HC1600-2	12.9	200	21.5	12.4	6.2	48
HC1600-3	3.0	130	7.0	3.6	0.9	70
HC1600-4	9.6	380	28.8	14.9	9.3	38
HC1600-5	3.8	510	31.0	17.1	9.0	46
HC1600-6	6.4	580	35.3	19.4	10.0	53
HC1600-7	9.0	430	41.4	27.6	6.8	19
HC1600-8	12.3	780	7.3	4.2	1.6	70
HC1600-9	9.4	530	25.5	12.0	8.1	40
HC1600-9	6.4	1240	30.6	16.2	8.6	88
HC1600-10	6.4	850	25.7	13.9	9.1	66
HC1600-11	3.9	630	20.3	10.9	5.3	80
HC1600-12	13.4	360	23.2	13.9	4.7	16
HC1600-13	10.2	450	19.8	11.4	3.2	51
HC1600-14	5.8	300	10.7	5.5	3.3	37
HC1700-1	19.1	390	15.9	10.0	1.9	57
HC1700-2	16.4	660	16.2	9.3	3.3	53
HC1700-3	2.4	230	10.0	5.9	2.2	129
HC1700-4	12.3	310	7.8	5.0	1.6	177

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
HC1700-5	13.8	520	26.1	14.7	4.9	68
HC1700-6	4.9	170	25.1	20.7	4.3	199
HC1700-7	10.0	180	12.1	7.5	2.0	28
HC1700-8	4.8	900	28.0	15.3	9.3	56
HC1700-9	6.2	650	37.2	19.8	8.1	119
HC1700-10	6.2	620	32.5	18.5	6.7	73
HC1700-11	2.0	450	15.0	9.9	3.7	77
HC1700-12	8.4	440	16.0	8.5	4.0	68
HC1700-13	10.8	600	41.4	23.6	10.4	47
HC1800-1	10.7	190	14.6	8.4	2.9	57
HC1800-2	6.3	200	9.3	6.3	1.1	98
HC1800-3	11.8	290	14.6	8.1	2.6	31
HC1800-4	9.4	180	7.8	5.0	1.3	43
HC1800-5	24.5	360	14.6	8.5	2.4	26
HC1800-6	15.3	260	23.3	12.3	5.8	80
HC1800-7	11.1	440	20.3	9.6	6.5	34
HC1800-8	12.4	310	16.6	9.0	3.8	49
HC1800-9	7.0	150	11.2	7.7	1.7	129
HC1800-10	9.6	280	6.5	4.3	1.4	117
HC1800-11	12.9	110	10.8	6.5	1.9	50
HC1800-12	6.4	270	13.8	8.9	2.9	169
HC1900-1	13.0	200	14.8	9.9	2.0	63
HC1900-2	14.5	150	14.8	9.8	1.9	86
HC1900-3	19.9	520	18.4	15.2	2.0	55
HC1900-4	8.5	250	6.6	5.7	1.3	171
HC1900-5	9.6	320	34.3	18.3	8.6	68
HC1900-6	18.6	680	15.5	9.1	3.7	29
HC1900-7	28.0	230	13.9	9.2	2.5	111
HC1900-8	22.5	330	22.6	15.0	3.4	36

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
HC1900-9	17.5	230	15.0	9.8	2.7	24
HC2000-1	11.2	180	11.2	7.5	2.5	131
HC2000-2	12.9	430	7.5	5.0	1.3	122
HC2000-3	9.2	350	12.2	6.3	2.2	102
HC2000-4	10.2	170	21.2	11.1	5.1	44
HC2000-5	3.3	1180	24.7	17.0	3.5	33
HC2000-6	12.1	360	15.4	8.8	2.9	118
HC2000-7	13.1	360	15.3	8.7	3.4	19
HC2000-9	10.0	510	23.0	12.2	6.7	81
HC2100-1	6.5	1080	45.5	22.6	12.4	84
HC2100-2	21.4	620	35.3	19.4	8.2	36
HC2100-3	15.8	3130	22.2	11.2	7.3	57
HC2100-4	21.3	880	29.1	18.6	6.1	101
HC2100-5	14.9	460	16.6	9.0	4.3	82
HC2100-6	6.4	170	5.9	5.0	1.0	71
HC2100-7	12.7	290	21.1	13.1	4.0	26
HC2100-8	12.1	240	7.6	5.6	1.4	101
HC2200-1	11.0	1130	27.3	15.4	7.2	66
HC2200-2	13.8	310	11.8	6.5	2.5	57
HC2200-3	14.3	200	13.1	7.3	2.4	109
HC2200-4	1.7	220	12.2	8.3	1.4	170
HC2200-5	8.0	100	4.3	3.7	0.7	66
HC2200-6	1.4	50	2.2	1.7	0.3	140
HC0100-25	15.9	310	22.1	11.0	5.6	23
HC0200-01	3.7	210	3.6	3.1	0.5	324
HC0200-12	29.0	630	6.8	3.4	2.5	244
HC0300-01	9.4	200	11.6	7.4	1.4	86
HC0300-10	24.9	340	7.2	4.6	1.6	108
HC0400-01	48.2	750	3.2	1.9	0.9	177

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Order Number GEOTRONICS
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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
HC0500-01	14.6	330	6.3	6.5	0.7	103
HC0700-01	36.4	540	11.1	7.7	1.7	113
HC1400-01	9.4	360	9.0	9.0	0.8	258
HC1500-08	9.4	430	15.5	9.6	2.4	132
HC2000-08	17.3	140	10.1	9.8	1.2	6
4000N-8500E	0.4	640	48.3	28.3	12.1	27
4000N-8550E	<0.2	1190	54.7	33.3	13.5	22
4000N-8600E	0.3	1560	72.6	46.2	17.9	17
4000N-8650E	0.3	2790	1.2	0.8	0.3	10
4000N-8700E	0.5	5210	<0.5	<0.2	<0.2	16
4000N-8750E	0.5	1500	37.5	20.6	10.4	20
4000N-8800E	0.3	620	36.7	21.1	9.2	18
4000N-8850E	0.2	1490	61.0	34.7	17.6	38
4000N-8900E	<0.2	1740	73.3	42.5	16.5	24
4000N-8950E	<0.2	4000	64.9	38.1	16.5	28
4000N-9000E	0.2	480	40.6	23.2	10.8	42
4000N-9050E	0.5	400	28.2	16.6	8.6	48
4000N-9100E	<0.2	890	45.3	25.0	12.0	43
4000N-9150E	<0.2	1120	71.9	43.2	17.1	26
4000N-9200E	<0.2	1140	44.8	27.1	12.4	37
4100N-8550E	<0.2	2200	27.3	16.7	6.7	8
4100N-8600E	<0.2	750	89.3	49.1	22.9	40
4100N-8650E	<0.2	590	25.0	14.9	5.7	9
4100N-8700E	0.2	1730	63.8	37.8	16.5	16
4100N-8750E	0.3	1090	33.4	20.2	8.5	43
4100N-8800E	0.5	880	85.2	56.6	19.4	33
4100N-8850E	0.3	810	33.3	20.2	8.2	33
4100N-8900E	0.2	1620	70.9	42.5	16.9	38
4100N-8950E	0.3	940	55.5	33.4	15.0	40

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Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
4100N-9000E	<0.2	750	57.0	33.5	14.7	54
4100N-9050E	<0.2	1030	52.2	30.9	13.5	42
4100N-9100E	<0.2	1980	16.4	11.5	3.3	20
4100N-9150E	<0.2	1220	41.3	24.0	10.7	35
4100N-9200E	<0.2	1350	49.6	27.9	13.9	36
*Rep HC0400-01	49.2	710	2.8	1.9	0.8	186
*Rep 4000N-8900E	<0.2	1700	73.5	43.3	18.2	25
*Rep 4100N-8800E	0.4	940	80.3	51.9	19.1	31
*Rep HC2000-2	12.4	420	7.0	5.0	1.2	116
*Rep HC2000-7	13.5	390	16.2	8.6	3.5	18
*Blk BLANK	<0.2	<10	<0.5	<0.2	<0.2	<1
*Std MMISRM19	4.3	2240	10.1	7.6	0.9	12
*Rep HC1500-11	7.4	330	23.2	14.0	6.4	5
*Blk BLANK	<0.2	<10	<0.5	<0.2	<0.2	<1
*Rep HC1600-14	5.9	340	12.3	6.1	3.8	41
*Std MMISRM24	8.9	240	4.0	1.8	1.4	10
*Rep HC1800-5	20.4	330	13.9	7.7	2.1	19

Element	Ga	Gd	Hg	In	K	La
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	0.5	1	0.1	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppm m / m	ppb
HC1500-2	23.0	12.0	2	0.1	5.8	19
HC1500-3	15.1	2.0	1	0.2	5.1	9
HC1500-4	8.1	20.2	<1	<0.1	8.1	35
HC1500-5	21.2	4.4	<1	0.2	2.3	9
HC1500-6	53.9	8.5	1	0.2	2.8	24
HC1500-7	17.5	12.8	1	0.1	5.4	29

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
HC1500-9	8.0	2.5	1	0.2	5.1	6
HC1500-10	14.5	8.1	1	0.1	8.4	13
HC1500-11	13.4	21.9	1	<0.1	4.3	31
HC1500-12	21.1	35.6	<1	0.1	16.9	80
HC1500-13	12.2	1.6	<1	0.2	3.6	5
HC1500-14	18.4	24.4	<1	0.1	11.4	39
HC1500-15	14.5	18.2	<1	0.1	12.0	55
HC1500-16	22.3	6.6	<1	0.2	3.3	21
HC1600-1	19.7	9.1	<1	0.2	14.4	13
HC1600-2	24.8	24.9	<1	<0.1	16.1	62
HC1600-3	11.6	4.2	<1	0.1	15.9	6
HC1600-4	15.4	37.9	<1	<0.1	24.1	142
HC1600-5	11.0	35.5	<1	0.1	19.9	109
HC1600-6	16.9	41.5	<1	0.1	18.5	129
HC1600-7	8.1	33.5	<1	<0.1	11.6	67
HC1600-8	15.5	6.5	2	0.2	9.4	21
HC1600-9	14.0	32.7	<1	<0.1	13.0	75
HC1600-9	14.9	34.0	1	0.2	14.8	57
HC1600-10	19.2	33.3	<1	0.1	15.7	78
HC1600-11	16.8	21.8	<1	0.2	19.4	48
HC1600-12	13.6	22.5	<1	<0.1	8.8	40
HC1600-13	14.5	15.6	<1	0.2	10.4	24
HC1600-14	12.9	13.0	<1	<0.1	11.5	40
HC1700-1	27.2	9.4	1	0.1	7.5	18
HC1700-2	23.6	13.8	1	0.2	5.4	28
HC1700-3	74.6	9.2	2	0.6	6.3	24
HC1700-4	41.2	5.7	1	0.3	2.8	19
HC1700-5	18.7	21.5	<1	0.2	7.1	41
HC1700-6	53.4	18.6	2	0.6	8.9	59

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Order Number GEOTRONICS
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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
HC1700-7	9.8	8.6	<1	<0.1	3.1	14
HC1700-8	11.1	35.7	<1	0.1	20.7	100
HC1700-9	16.7	38.9	<1	0.2	12.7	61
HC1700-10	17.4	31.3	1	0.2	13.3	45
HC1700-11	3.7	15.9	<1	<0.1	13.4	27
HC1700-12	26.4	15.6	<1	0.1	16.6	32
HC1700-13	20.8	46.1	2	0.1	6.1	135
HC1800-1	33.2	12.8	1	0.2	5.2	22
HC1800-2	40.0	5.1	<1	0.4	6.0	6
HC1800-3	10.4	12.1	<1	0.1	5.8	18
HC1800-4	10.4	4.7	<1	0.1	11.8	8
HC1800-5	12.4	10.1	<1	0.1	6.9	16
HC1800-6	32.9	25.6	2	<0.1	8.4	67
HC1800-7	16.2	24.4	<1	<0.1	14.0	84
HC1800-8	21.5	16.1	1	0.1	10.9	33
HC1800-9	55.5	6.4	1	0.2	4.1	11
HC1800-10	25.8	5.3	3	0.2	5.1	17
HC1800-11	11.4	7.8	1	0.1	2.3	24
HC1800-12	62.0	11.0	<1	0.2	1.7	30
HC1900-1	26.5	9.7	<1	0.2	8.0	12
HC1900-2	22.3	8.3	2	0.2	7.7	13
HC1900-3	21.1	9.2	1	0.2	12.2	11
HC1900-4	32.6	5.6	2	0.3	5.1	29
HC1900-5	22.4	41.1	<1	0.1	14.2	104
HC1900-6	12.1	16.6	<1	<0.1	26.7	34
HC1900-7	35.6	11.0	<1	0.1	13.8	21
HC1900-8	13.9	16.3	<1	<0.1	6.9	23
HC1900-9	10.4	11.9	<1	<0.1	11.1	19
HC2000-1	37.5	10.9	<1	0.1	8.8	22

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
HC2000-2	37.9	5.9	2	0.5	5.4	11
HC2000-3	33.6	10.3	2	0.2	4.0	21
HC2000-4	19.5	20.9	<1	0.1	10.7	40
HC2000-5	6.6	16.6	<1	<0.1	23.8	19
HC2000-6	36.5	12.3	<1	0.2	7.7	25
HC2000-7	11.3	14.5	<1	<0.1	18.7	23
HC2000-9	15.5	27.0	1	0.1	32.2	84
HC2100-1	15.3	52.4	1	0.3	13.8	101
HC2100-2	9.6	37.8	1	<0.1	19.8	57
HC2100-3	13.7	28.4	<1	0.1	19.9	103
HC2100-4	16.6	27.6	1	0.1	11.3	59
HC2100-5	22.0	16.5	2	0.1	14.6	54
HC2100-6	12.9	3.7	<1	0.2	1.8	9
HC2100-7	10.0	18.9	<1	<0.1	6.8	41
HC2100-8	14.5	5.1	1	0.2	5.0	13
HC2200-1	17.2	28.3	<1	0.1	16.0	62
HC2200-2	17.4	9.4	1	0.1	6.0	15
HC2200-3	48.8	9.9	1	0.2	9.7	22
HC2200-4	72.0	8.1	1	0.4	9.5	10
HC2200-5	13.1	2.8	1	0.2	3.3	10
HC2200-6	59.2	1.2	<1	0.3	9.2	3
HC0100-25	8.6	21.4	1	0.1	16.5	23
HC0200-01	72.2	2.4	2	0.3	10.1	11
HC0200-12	45.4	9.4	<1	0.6	5.1	33
HC0300-01	34.8	7.1	<1	0.1	11.6	8
HC0300-10	14.1	5.2	1	0.2	8.5	12
HC0400-01	12.5	3.0	1	0.3	7.3	12
HC0500-01	29.3	3.3	<1	0.2	19.0	9
HC0700-01	23.7	8.8	3	0.2	9.7	34

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
HC1400-01	51.7	4.5	3	0.6	11.3	14
HC1500-08	46.0	13.6	4	0.4	8.9	30
HC2000-08	27.0	5.8	<1	0.1	16.2	4
4000N-8500E	2.2	56.5	<1	<0.1	43.8	83
4000N-8550E	1.5	66.1	<1	<0.1	156	84
4000N-8600E	1.5	87.1	<1	<0.1	91.2	124
4000N-8650E	<0.5	1.3	<1	<0.1	144	<1
4000N-8700E	<0.5	<0.5	<1	<0.1	158	<1
4000N-8750E	1.0	50.4	<1	<0.1	60.0	54
4000N-8800E	1.3	45.0	<1	<0.1	184	44
4000N-8850E	2.1	80.1	<1	<0.1	85.8	145
4000N-8900E	1.3	84.5	<1	<0.1	83.4	87
4000N-8950E	1.1	76.8	<1	<0.1	57.9	69
4000N-9000E	1.8	46.8	<1	<0.1	38.7	106
4000N-9050E	2.4	34.4	<1	<0.1	72.7	73
4000N-9100E	1.4	50.6	<1	<0.1	44.8	126
4000N-9150E	1.5	83.1	<1	<0.1	85.3	98
4000N-9200E	1.7	52.3	<1	<0.1	49.5	100
4100N-8550E	0.9	31.7	<1	<0.1	196	35
4100N-8600E	2.0	101	<1	<0.1	45.3	238
4100N-8650E	1.1	28.6	<1	<0.1	234	36
4100N-8700E	1.4	77.0	<1	<0.1	141	90
4100N-8750E	1.8	39.2	<1	<0.1	88.3	52
4100N-8800E	2.4	91.9	<1	<0.1	66.4	141
4100N-8850E	2.1	37.6	<1	<0.1	103	56
4100N-8900E	1.9	84.0	<1	<0.1	86.3	123
4100N-8950E	2.6	69.6	<1	<0.1	92.4	128
4100N-9000E	2.3	65.9	<1	<0.1	43.8	153
4100N-9050E	2.0	59.0	<1	<0.1	157	114

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
4100N-9100E	0.5	15.3	<1	<0.1	171	5
4100N-9150E	1.9	48.1	<1	<0.1	86.7	80
4100N-9200E	1.8	64.1	<1	<0.1	118	139
*Rep HC0400-01	13.5	2.4	1	0.3	8.4	11
*Rep 4000N-8900E	1.3	88.2	<1	<0.1	78.5	97
*Rep 4100N-8800E	2.3	89.8	<1	<0.1	66.0	138
*Rep HC2000-2	35.9	5.0	2	0.5	5.2	10
*Rep HC2000-7	11.3	15.1	<1	<0.1	19.4	23
*Blk BLANK	<0.5	<0.5	<1	<0.1	<0.5	<1
*Std MMISRM19	0.5	6.6	2	<0.1	94.7	<1
*Rep HC1500-11	15.0	22.5	2	<0.1	4.1	32
*Blk BLANK	<0.5	<0.5	<1	<0.1	<0.5	<1
*Rep HC1600-14	13.6	15.3	<1	<0.1	12.7	46
*Std MMISRM24	3.2	5.4	4	<0.1	10.4	19
*Rep HC1800-5	9.8	8.6	<1	<0.1	6.6	12

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
HC1500-2	2	0.9	3300	13	2.1	32
HC1500-3	2	0.6	300	7	<0.5	7
HC1500-4	3	3.7	2100	4	<0.5	55
HC1500-5	1	<0.5	300	5	1.2	11
HC1500-6	<1	<0.5	300	8	6.6	24
HC1500-7	<1	<0.5	1900	4	<0.5	40
HC1500-9	<1	<0.5	500	4	<0.5	5
HC1500-10	1	0.7	2700	2	<0.5	21

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
HC1500-11	<1	<0.5	400	<2	<0.5	71
HC1500-12	12	13.8	3500	4	2.1	121
HC1500-13	<1	1.1	<100	<2	<0.5	5
HC1500-14	2	1.4	2900	4	0.8	78
HC1500-15	3	7.7	4600	4	0.8	71
HC1500-16	3	2.3	100	11	1.4	24
HC1600-1	2	0.5	800	9	0.6	25
HC1600-2	3	1.9	2000	29	1.3	110
HC1600-3	1	5.5	200	15	<0.5	11
HC1600-4	5	5.5	3000	28	<0.5	197
HC1600-5	3	6.3	4600	20	<0.5	167
HC1600-6	4	3.6	4900	24	0.9	182
HC1600-7	2	1.1	1000	6	<0.5	131
HC1600-8	2	0.9	600	5	1.0	25
HC1600-9	4	5.9	2700	8	0.9	119
HC1600-9	10	14.9	5200	6	0.9	108
HC1600-10	5	9.0	3100	9	1.7	121
HC1600-11	7	8.0	10100	7	1.2	78
HC1600-12	1	<0.5	1100	12	<0.5	75
HC1600-13	2	2.9	1400	4	<0.5	43
HC1600-14	3	10.8	3900	7	0.7	53
HC1700-1	2	0.9	1600	5	1.8	25
HC1700-2	4	1.9	800	7	1.7	41
HC1700-3	3	4.6	800	16	12.6	29
HC1700-4	2	1.2	500	10	3.9	18
HC1700-5	7	1.7	4800	20	1.3	69
HC1700-6	3	1.3	300	27	9.2	62
HC1700-7	1	0.7	300	3	<0.5	25
HC1700-8	4	8.4	3900	26	0.7	143

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
HC1700-9	7	10.5	9600	19	1.1	117
HC1700-10	5	3.9	5100	16	0.6	86
HC1700-11	4	11.2	5500	16	<0.5	46
HC1700-12	1	2.8	1900	12	2.1	48
HC1700-13	4	1.8	2500	13	0.7	190
HC1800-1	2	0.9	1100	22	2.7	39
HC1800-2	2	2.6	600	18	6.9	12
HC1800-3	<1	3.5	1100	6	<0.5	34
HC1800-4	1	1.4	400	4	<0.5	12
HC1800-5	1	<0.5	900	4	<0.5	30
HC1800-6	3	0.9	300	14	4.3	102
HC1800-7	2	1.8	2600	16	<0.5	105
HC1800-8	2	2.1	1700	9	2.4	49
HC1800-9	<1	1.0	900	7	4.3	17
HC1800-10	2	0.6	200	12	2.7	17
HC1800-11	1	<0.5	200	6	0.9	23
HC1800-12	2	0.8	200	19	9.6	37
HC1900-1	5	4.9	2400	23	3.3	25
HC1900-2	8	2.1	1200	12	1.8	22
HC1900-3	7	3.3	2400	12	1.7	19
HC1900-4	5	1.8	200	23	5.1	21
HC1900-5	4	5.1	2100	19	1.7	150
HC1900-6	1	2.3	500	12	0.7	50
HC1900-7	4	4.2	1700	28	4.6	30
HC1900-8	5	1.0	2100	11	0.9	46
HC1900-9	2	3.4	1100	10	<0.5	33
HC2000-1	4	10.3	5800	81	7.0	33
HC2000-2	4	2.2	1000	24	3.1	15
HC2000-3	4	3.0	2000	19	3.9	30

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
HC2000-4	3	2.7	3900	9	1.2	67
HC2000-5	4	20.4	3000	7	<0.5	40
HC2000-6	3	10.6	700	27	3.7	34
HC2000-7	3	3.6	400	25	1.3	44
HC2000-9	5	14.3	6000	38	1.5	112
HC2100-1	40	13.4	3000	20	1.4	188
HC2100-2	3	4.0	2500	10	0.8	98
HC2100-3	5	13.0	4700	21	1.0	122
HC2100-4	3	4.7	1800	25	1.8	88
HC2100-5	4	1.6	800	11	2.4	62
HC2100-6	<1	<0.5	<100	3	<0.5	12
HC2100-7	4	7.1	2300	13	<0.5	59
HC2100-8	2	0.6	100	11	0.7	15
HC2200-1	6	5.3	3700	19	1.5	95
HC2200-2	2	2.4	400	5	1.2	27
HC2200-3	2	0.9	600	27	4.3	32
HC2200-4	3	10.2	2100	25	15.4	17
HC2200-5	<1	1.1	<100	3	0.7	9
HC2200-6	2	12.8	100	8	10.1	4
HC0100-25	5	1.4	1200	<2	<0.5	59
HC0200-01	3	3.3	1300	3	14.2	8
HC0200-12	5	4.2	100	6	9.8	34
HC0300-01	<1	1.5	900	2	3.5	15
HC0300-10	5	2.3	800	9	0.7	15
HC0400-01	14	3.8	1200	5	<0.5	9
HC0500-01	2	1.2	1500	2	3.4	9
HC0700-01	10	4.9	800	2	2.1	28
HC1400-01	6	4.8	3700	37	5.3	13
HC1500-08	6	3.6	13500	26	5.0	37

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
HC2000-08	<1	<0.5	200	16	<0.5	13
4000N-8500E	8	127	16200	11	2.0	155
4000N-8550E	13	186	13000	6	0.9	179
4000N-8600E	77	283	11600	7	0.8	223
4000N-8650E	66	396	3800	16	<0.5	2
4000N-8700E	13	175	2400	11	<0.5	<1
4000N-8750E	16	230	6300	8	0.8	132
4000N-8800E	40	249	13600	24	<0.5	103
4000N-8850E	18	89.7	9500	8	1.4	276
4000N-8900E	16	194	11800	6	0.9	189
4000N-8950E	11	202	7900	7	1.1	166
4000N-9000E	10	108	10300	3	1.1	163
4000N-9050E	4	105	23800	15	3.5	131
4000N-9100E	5	163	6200	7	1.9	185
4000N-9150E	9	170	9000	9	1.2	211
4000N-9200E	8	195	17900	6	1.6	159
4100N-8550E	59	603	11500	47	0.9	71
4100N-8600E	12	236	8400	9	2.0	371
4100N-8650E	28	454	13900	22	0.8	68
4100N-8700E	51	256	17100	16	0.5	201
4100N-8750E	4	105	9900	7	2.0	110
4100N-8800E	45	156	21800	6	0.5	275
4100N-8850E	7	85.9	10100	8	1.8	112
4100N-8900E	17	139	9500	8	1.9	235
4100N-8950E	17	65.3	10500	8	1.9	229
4100N-9000E	8	115	8700	4	2.4	237
4100N-9050E	8	123	20700	4	1.8	191
4100N-9100E	7	143	8200	8	2.7	17
4100N-9150E	7	108	15400	9	1.6	144

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element	Li	Mg	Mn	Mo	Nb	Nd
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
4100N-9200E	6	112	9900	10	2.2	220
*Rep HC0400-01	15	4.3	1200	5	<0.5	9
*Rep 4000N-8900E	15	182	10400	7	0.9	211
*Rep 4100N-8800E	41	159	22400	9	1.0	271
*Rep HC2000-2	4	2.1	900	23	3.1	13
*Rep HC2000-7	4	3.9	500	24	1.4	45
*Blk BLANK	<1	<0.5	<100	<2	0.5	<1
*Std MMISRM19	2	197	7600	9	<0.5	1
*Rep HC1500-11	<1	<0.5	500	<2	<0.5	76
*Blk BLANK	<1	<0.5	<100	<2	<0.5	<1
*Rep HC1600-14	3	12.8	4700	7	0.7	62
*Std MMISRM24	1	9.7	200	24	<0.5	27
*Rep HC1800-5	<1	<0.5	700	2	<0.5	25

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
HC1500-2	70	3.2	261	<1	7.1	<0.1
HC1500-3	93	2.2	64	<1	1.9	<0.1
HC1500-4	147	1.3	617	<1	12.3	<0.1
HC1500-5	62	0.9	134	<1	2.7	<0.1
HC1500-6	108	3.0	52	<1	5.8	<0.1
HC1500-7	100	1.8	208	<1	9.4	<0.1
HC1500-9	80	1.2	253	<1	1.2	<0.1
HC1500-10	184	2.5	532	<1	4.9	<0.1
HC1500-11	131	<0.1	95	<1	16.1	<0.1
HC1500-12	722	3.6	106	<1	28.4	<0.1

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ni GE_MMIM 5 -- ppb	P GE_MMIM 0.1 -- ppm m / m	Pb GE_MMIM 5 -- ppb	Pd GE_MMIM 1 -- ppb	Pr GE_MMIM 0.5 -- ppb	Pt GE_MMIM 0.1 -- ppb
HC1500-13	156	0.7	84	<1	1.2	<0.1
HC1500-14	840	1.2	212	<1	17.7	<0.1
HC1500-15	459	2.8	118	<1	17.2	<0.1
HC1500-16	223	1.2	100	<1	5.9	<0.1
HC1600-1	105	0.7	131	<1	5.3	<0.1
HC1600-2	68	2.0	88	<1	26.3	<0.1
HC1600-3	112	1.1	156	<1	2.5	<0.1
HC1600-4	371	2.6	301	<1	51.1	<0.1
HC1600-5	515	2.3	132	<1	41.2	<0.1
HC1600-6	361	3.8	148	<1	46.1	<0.1
HC1600-7	68	0.7	132	<1	30.5	<0.1
HC1600-8	594	4.0	91	<1	6.2	<0.1
HC1600-9	524	2.9	57	<1	28.2	<0.1
HC1600-9	1770	4.2	726	<1	23.8	<0.1
HC1600-10	796	2.4	123	<1	27.7	<0.1
HC1600-11	538	7.2	607	<1	18.1	<0.1
HC1600-12	130	0.7	187	<1	16.9	<0.1
HC1600-13	636	1.3	512	<1	9.8	<0.1
HC1600-14	429	2.6	69	<1	12.9	<0.1
HC1700-1	208	2.8	206	<1	5.7	<0.1
HC1700-2	195	2.3	150	<1	9.4	<0.1
HC1700-3	181	5.3	973	<1	6.8	<0.1
HC1700-4	190	2.5	76	<1	4.5	<0.1
HC1700-5	185	1.7	134	<1	16.2	<0.1
HC1700-6	321	4.7	719	<1	15.2	<0.1
HC1700-7	163	0.4	140	<1	5.7	<0.1
HC1700-8	1390	2.4	172	<1	34.8	<0.1
HC1700-9	1310	6.3	227	<1	26.2	<0.1
HC1700-10	853	4.2	316	<1	19.4	<0.1

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ni GE_MMIM 5 -- ppb	P GE_MMIM 0.1 -- ppm m / m	Pb GE_MMIM 5 -- ppb	Pd GE_MMIM 1 -- ppb	Pr GE_MMIM 0.5 -- ppb	Pt GE_MMIM 0.1 -- ppb
HC1700-11	1760	1.0	56	<1	10.3	<0.1
HC1700-12	399	2.0	189	<1	11.3	<0.1
HC1700-13	517	5.3	83	<1	46.9	<0.1
HC1800-1	176	2.0	122	<1	8.4	<0.1
HC1800-2	298	2.2	143	<1	2.7	<0.1
HC1800-3	659	1.0	223	<1	7.2	<0.1
HC1800-4	236	0.9	155	<1	2.8	<0.1
HC1800-5	89	0.6	110	<1	6.9	<0.1
HC1800-6	177	1.1	83	<1	23.5	<0.1
HC1800-7	282	3.1	76	<1	27.1	<0.1
HC1800-8	411	1.8	349	<1	10.7	<0.1
HC1800-9	236	0.8	95	<1	3.5	<0.1
HC1800-10	203	2.9	52	<1	4.0	<0.1
HC1800-11	154	1.1	85	<1	5.4	<0.1
HC1800-12	107	0.9	112	<1	8.8	<0.1
HC1900-1	368	2.0	226	<1	4.8	<0.1
HC1900-2	307	2.2	205	<1	4.6	<0.1
HC1900-3	719	1.9	162	<1	3.9	<0.1
HC1900-4	206	1.5	50	<1	5.3	<0.1
HC1900-5	610	3.0	65	<1	34.9	<0.1
HC1900-6	489	0.9	119	<1	10.9	<0.1
HC1900-7	1880	1.2	107	<1	7.0	<0.1
HC1900-8	1550	1.0	100	<1	9.7	<0.1
HC1900-9	963	0.5	105	<1	6.7	<0.1
HC2000-1	255	2.9	136	<1	7.2	<0.1
HC2000-2	238	5.0	852	<1	3.2	<0.1
HC2000-3	382	4.2	222	<1	6.8	<0.1
HC2000-4	851	4.2	129	<1	14.4	<0.1
HC2000-5	1350	0.9	313	<1	7.9	<0.1

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ni GE_MMIM 5 -- ppb	P GE_MMIM 0.1 -- ppm m / m	Pb GE_MMIM 5 -- ppb	Pd GE_MMIM 1 -- ppb	Pr GE_MMIM 0.5 -- ppb	Pt GE_MMIM 0.1 -- ppb
HC2000-6	504	2.9	124	<1	7.9	<0.1
HC2000-7	651	0.9	59	<1	8.9	<0.1
HC2000-9	2970	2.5	137	<1	26.3	<0.1
HC2100-1	1230	3.2	466	<1	40.1	<0.1
HC2100-2	459	1.6	1420	<1	21.2	<0.1
HC2100-3	1780	2.8	121	<1	29.6	<0.1
HC2100-4	904	3.4	67	<1	19.9	<0.1
HC2100-5	127	2.1	92	<1	14.8	<0.1
HC2100-6	76	0.2	88	<1	2.5	<0.1
HC2100-7	1090	1.5	83	<1	12.9	<0.1
HC2100-8	142	0.7	68	<1	3.5	<0.1
HC2200-1	1370	3.8	183	<1	21.4	<0.1
HC2200-2	594	1.0	152	<1	5.6	<0.1
HC2200-3	161	1.7	95	<1	7.1	<0.1
HC2200-4	388	4.5	228	<1	3.4	<0.1
HC2200-5	125	1.0	61	<1	2.1	<0.1
HC2200-6	55	1.0	61	<1	0.8	<0.1
HC0100-25	181	1.0	222	<1	11.3	<0.1
HC0200-01	116	8.5	97	<1	1.9	<0.1
HC0200-12	151	6.3	52	<1	8.4	<0.1
HC0300-01	73	0.9	97	<1	2.8	<0.1
HC0300-10	156	1.7	120	<1	3.4	<0.1
HC0400-01	150	4.1	76	<1	2.1	<0.1
HC0500-01	96	2.9	119	<1	2.0	<0.1
HC0700-01	140	6.2	256	<1	7.1	<0.1
HC1400-01	168	6.6	1150	<1	3.2	<0.1
HC1500-08	273	9.6	793	<1	7.7	<0.1
HC2000-08	99	<0.1	111	<1	2.1	<0.1
4000N-8500E	313	2.2	80	<1	30.9	<0.1

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ni GE_MMIM 5 -- ppb	P GE_MMIM 0.1 -- ppm m / m	Pb GE_MMIM 5 -- ppb	Pd GE_MMIM 1 -- ppb	Pr GE_MMIM 0.5 -- ppb	Pt GE_MMIM 0.1 -- ppb
4000N-8550E	527	3.4	60	<1	34.2	<0.1
4000N-8600E	661	2.2	97	<1	43.4	<0.1
4000N-8650E	466	2.7	17	<1	<0.5	<0.1
4000N-8700E	441	1.5	6	1	<0.5	<0.1
4000N-8750E	248	1.9	42	<1	23.8	<0.1
4000N-8800E	506	4.2	52	<1	18.7	<0.1
4000N-8850E	399	3.8	49	<1	54.7	<0.1
4000N-8900E	526	2.2	60	<1	34.3	<0.1
4000N-8950E	383	1.4	63	<1	29.6	<0.1
4000N-9000E	219	2.5	71	<1	34.7	<0.1
4000N-9050E	471	3.3	20	<1	27.5	<0.1
4000N-9100E	165	1.8	57	<1	40.0	0.5
4000N-9150E	325	1.8	59	<1	40.3	<0.1
4000N-9200E	324	1.2	76	<1	34.0	<0.1
4100N-8550E	720	7.5	76	<1	13.0	<0.1
4100N-8600E	355	2.9	103	<1	80.0	<0.1
4100N-8650E	306	9.0	88	<1	13.0	<0.1
4100N-8700E	869	2.4	68	<1	37.0	<0.1
4100N-8750E	211	5.2	33	<1	21.2	<0.1
4100N-8800E	445	2.8	189	<1	55.7	<0.1
4100N-8850E	235	4.1	76	<1	22.5	<0.1
4100N-8900E	448	5.9	86	<1	46.8	<0.1
4100N-8950E	432	4.9	59	<1	48.4	<0.1
4100N-9000E	157	2.1	52	<1	51.8	<0.1
4100N-9050E	449	4.9	113	<1	40.9	<0.1
4100N-9100E	284	2.2	43	<1	2.9	<0.1
4100N-9150E	396	2.8	88	<1	28.6	<0.1
4100N-9200E	274	3.0	109	<1	45.9	<0.1
*Rep HC0400-01	143	4.3	83	<1	1.9	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
*Rep 4000N-8900E	528	2.1	57	<1	38.5	<0.1
*Rep 4100N-8800E	450	3.1	178	<1	55.3	<0.1
*Rep HC2000-2	234	4.6	827	<1	2.8	<0.1
*Rep HC2000-7	671	0.8	65	<1	9.3	<0.1
*Blk BLANK	<5	<0.1	<5	<1	<0.5	<0.1
*Std MMISRM19	2320	0.3	1210	<1	<0.5	<0.1
*Rep HC1500-11	114	<0.1	99	<1	17.1	<0.1
*Blk BLANK	<5	<0.1	<5	<1	<0.5	<0.1
*Rep HC1600-14	523	3.0	79	<1	15.0	<0.1
*Std MMISRM24	131	0.4	275	6	7.0	2.9
*Rep HC1800-5	83	0.4	110	<1	5.7	<0.1

Element	Rb	Sb	Sc	Sm	Sn	Sr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	5	1	1	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
HC1500-2	42	1.2	38	9	<1	20
HC1500-3	79	<0.5	18	2	<1	30
HC1500-4	77	0.9	21	14	<1	250
HC1500-5	28	<0.5	24	3	<1	10
HC1500-6	32	1.0	33	6	3	20
HC1500-7	33	<0.5	34	10	<1	20
HC1500-9	25	<0.5	13	2	<1	10
HC1500-10	83	<0.5	24	6	<1	20
HC1500-11	41	<0.5	60	19	<1	<10
HC1500-12	136	6.9	98	32	<1	150
HC1500-13	25	<0.5	15	2	<1	50
HC1500-14	57	0.8	34	18	<1	30

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Order Number GEOTRONICS
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 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Rb GE_MMIM 1 -- ppb	Sb GE_MMIM 0.5 -- ppb	Sc GE_MMIM 5 -- ppb	Sm GE_MMIM 1 -- ppb	Sn GE_MMIM 1 -- ppb	Sr GE_MMIM 10 -- ppb
HC1500-15	95	3.7	41	17	<1	100
HC1500-16	76	<0.5	47	6	<1	40
HC1600-1	41	<0.5	26	6	<1	10
HC1600-2	82	0.8	37	24	<1	50
HC1600-3	21	<0.5	13	3	<1	240
HC1600-4	112	1.2	39	39	<1	110
HC1600-5	59	2.4	51	36	<1	120
HC1600-6	80	2.4	58	41	<1	80
HC1600-7	84	<0.5	51	29	<1	20
HC1600-8	64	<0.5	28	6	<1	30
HC1600-9	114	2.8	43	29	<1	150
HC1600-9	114	5.7	66	30	<1	190
HC1600-10	99	5.2	72	31	<1	160
HC1600-11	117	3.5	53	20	<1	110
HC1600-12	66	1.5	31	18	<1	10
HC1600-13	54	1.6	29	12	<1	80
HC1600-14	80	3.1	32	12	<1	290
HC1700-1	73	0.8	32	7	<1	20
HC1700-2	89	2.3	51	11	<1	<10
HC1700-3	40	3.2	54	8	4	160
HC1700-4	35	1.7	46	5	<1	40
HC1700-5	42	2.0	43	17	<1	40
HC1700-6	40	6.3	47	15	5	40
HC1700-7	46	0.6	31	6	<1	10
HC1700-8	87	4.0	51	34	<1	200
HC1700-9	71	3.1	55	33	<1	160
HC1700-10	75	2.4	50	24	<1	50
HC1700-11	53	0.9	29	13	<1	490
HC1700-12	66	2.1	43	13	<1	90

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Rb GE_MMIM 1 -- ppb	Sb GE_MMIM 0.5 -- ppb	Sc GE_MMIM 5 -- ppb	Sm GE_MMIM 1 -- ppb	Sn GE_MMIM 1 -- ppb	Sr GE_MMIM 10 -- ppb
HC1700-13	66	4.0	50	43	<1	50
HC1800-1	44	1.3	32	10	1	30
HC1800-2	66	1.4	38	4	3	50
HC1800-3	32	<0.5	18	9	<1	90
HC1800-4	44	0.9	18	3	<1	30
HC1800-5	63	0.9	36	8	<1	<10
HC1800-6	60	2.4	53	23	1	20
HC1800-7	112	3.3	50	24	<1	70
HC1800-8	47	1.2	42	13	<1	120
HC1800-9	28	0.6	44	5	<1	60
HC1800-10	44	0.7	37	4	<1	60
HC1800-11	23	0.6	33	6	<1	30
HC1800-12	19	1.3	59	10	3	40
HC1900-1	41	1.2	27	7	<1	120
HC1900-2	48	0.5	38	7	<1	90
HC1900-3	68	<0.5	39	6	<1	90
HC1900-4	31	0.7	36	4	1	50
HC1900-5	93	1.7	47	36	<1	90
HC1900-6	122	0.8	36	13	<1	60
HC1900-7	67	1.0	29	9	<1	220
HC1900-8	34	<0.5	27	12	<1	90
HC1900-9	52	0.5	25	9	<1	150
HC2000-1	50	1.6	32	8	2	370
HC2000-2	40	2.2	42	4	<1	40
HC2000-3	29	0.9	37	9	<1	100
HC2000-4	67	0.5	42	17	<1	90
HC2000-5	92	0.8	27	11	<1	430
HC2000-6	43	0.8	27	10	<1	270
HC2000-7	69	0.7	26	12	<1	110

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Rb GE_MMIM 1 -- ppb	Sb GE_MMIM 0.5 -- ppb	Sc GE_MMIM 5 -- ppb	Sm GE_MMIM 1 -- ppb	Sn GE_MMIM 1 -- ppb	Sr GE_MMIM 10 -- ppb
HC2000-9	123	2.5	56	25	<1	150
HC2100-1	118	4.3	76	48	<1	240
HC2100-2	162	0.8	55	30	<1	70
HC2100-3	118	2.2	49	28	<1	170
HC2100-4	86	0.9	47	22	<1	150
HC2100-5	54	1.4	69	16	<1	110
HC2100-6	15	<0.5	44	3	<1	<10
HC2100-7	46	0.8	26	15	<1	230
HC2100-8	56	<0.5	63	5	<1	30
HC2200-1	107	1.5	63	25	<1	110
HC2200-2	51	<0.5	41	8	<1	80
HC2200-3	40	1.1	44	8	<1	40
HC2200-4	53	1.9	67	7	7	260
HC2200-5	27	<0.5	23	2	<1	30
HC2200-6	41	1.3	45	1	4	350
HC0100-25	165	<0.5	43	17	<1	20
HC0200-01	115	1.7	45	2	6	50
HC0200-12	66	1.6	70	9	2	70
HC0300-01	76	<0.5	37	5	1	20
HC0300-10	113	<0.5	47	5	<1	60
HC0400-01	96	<0.5	41	3	<1	90
HC0500-01	125	<0.5	40	2	1	20
HC0700-01	126	0.8	46	7	<1	120
HC1400-01	62	1.3	58	3	2	100
HC1500-08	58	1.7	58	10	3	140
HC2000-08	71	<0.5	21	4	<1	<10
4000N-8500E	27	<0.5	41	43	<1	2980
4000N-8550E	15	<0.5	37	50	<1	4590
4000N-8600E	26	<0.5	32	64	<1	9390

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 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Rb GE_MMIM 1 -- ppb	Sb GE_MMIM 0.5 -- ppb	Sc GE_MMIM 5 -- ppb	Sm GE_MMIM 1 -- ppb	Sn GE_MMIM 1 -- ppb	Sr GE_MMIM 10 -- ppb
4000N-8650E	44	<0.5	22	<1	<1	15200
4000N-8700E	57	<0.5	14	<1	<1	13100
4000N-8750E	52	<0.5	29	40	<1	9560
4000N-8800E	76	<0.5	28	32	<1	7910
4000N-8850E	32	<0.5	44	68	<1	4310
4000N-8900E	28	<0.5	37	57	<1	5720
4000N-8950E	12	<0.5	41	53	<1	4270
4000N-9000E	40	<0.5	73	40	<1	2630
4000N-9050E	103	<0.5	65	32	<1	3900
4000N-9100E	17	<0.5	61	44	<1	3030
4000N-9150E	18	<0.5	36	59	<1	2900
4000N-9200E	21	<0.5	71	42	<1	3240
4100N-8550E	23	<0.5	20	22	<1	11100
4100N-8600E	17	<0.5	93	91	<1	3920
4100N-8650E	39	<0.5	29	21	<1	9050
4100N-8700E	37	<0.5	26	59	<1	8720
4100N-8750E	33	<0.5	43	30	<1	5070
4100N-8800E	64	<0.5	59	74	<1	6000
4100N-8850E	38	<0.5	49	31	<1	3130
4100N-8900E	33	<0.5	54	64	<1	3960
4100N-8950E	40	<0.5	55	60	<1	2870
4100N-9000E	45	<0.5	91	58	<1	2330
4100N-9050E	5	<0.5	69	50	<1	2690
4100N-9100E	4	<0.5	22	7	<1	3320
4100N-9150E	38	<0.5	46	38	<1	2460
4100N-9200E	21	<0.5	43	53	<1	2080
*Rep HC0400-01	100	<0.5	41	2	<1	100
*Rep 4000N-8900E	29	<0.5	36	61	<1	5480
*Rep 4100N-8800E	60	<0.5	52	70	<1	5820

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element	Rb	Sb	Sc	Sm	Sn	Sr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	5	1	1	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
*Rep HC2000-2	40	1.8	40	4	<1	40
*Rep HC2000-7	71	0.6	28	12	<1	120
*Blk BLANK	<1	<0.5	<5	<1	<1	<10
*Std MMISRM19	196	1.2	20	2	<1	4090
*Rep HC1500-11	37	<0.5	63	21	<1	<10
*Blk BLANK	<1	0.5	<5	<1	<1	<10
*Rep HC1600-14	84	3.1	35	14	<1	340
*Std MMISRM24	121	0.5	8	6	<1	1130
*Rep HC1800-5	56	0.5	30	7	<1	<10

Element	Ta	Tb	Te	Th	Ti	Tl
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.1	10	0.5	10	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
HC1500-2	<1	2.9	<10	6.7	1890	1.2
HC1500-3	<1	0.5	<10	9.6	940	0.8
HC1500-4	<1	3.7	<10	6.6	820	0.6
HC1500-5	<1	1.1	<10	4.0	1320	0.3
HC1500-6	<1	1.9	<10	5.5	6520	0.3
HC1500-7	<1	2.5	<10	14.8	620	0.9
HC1500-9	<1	0.6	<10	3.9	270	0.3
HC1500-10	<1	1.9	<10	5.9	610	0.8
HC1500-11	<1	3.9	<10	3.9	30	0.5
HC1500-12	<1	5.8	<10	19.3	1820	1.6
HC1500-13	<1	0.4	<10	2.3	450	0.2
HC1500-14	<1	4.7	<10	3.4	1220	0.8
HC1500-15	<1	2.8	<10	13.5	930	0.9
HC1500-16	<1	1.4	<10	9.9	1550	0.4

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ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ta GE_MMIM 1 -- ppb	Tb GE_MMIM 0.1 -- ppb	Te GE_MMIM 10 -- ppb	Th GE_MMIM 0.5 -- ppb	Ti GE_MMIM 10 -- ppb	Tl GE_MMIM 0.1 -- ppb
HC1600-1	<1	2.0	<10	5.6	1370	0.5
HC1600-2	<1	3.8	<10	22.0	1560	1.2
HC1600-3	<1	1.0	<10	6.8	860	0.3
HC1600-4	<1	5.5	<10	27.9	990	2.0
HC1600-5	<1	5.7	<10	22.7	800	1.1
HC1600-6	<1	6.4	<10	24.5	1140	1.5
HC1600-7	<1	6.4	<10	10.4	760	0.9
HC1600-8	<1	1.2	<10	6.1	870	0.4
HC1600-9	<1	5.1	<10	16.8	910	1.4
HC1600-9	<1	5.6	<10	15.0	1050	1.1
HC1600-10	<1	5.0	<10	14.4	1500	1.3
HC1600-11	<1	3.8	<10	13.7	980	0.7
HC1600-12	<1	3.9	<10	8.0	510	0.6
HC1600-13	<1	3.1	<10	6.7	720	0.5
HC1600-14	<1	2.0	<10	11.9	830	0.8
HC1700-1	<1	2.2	<10	8.1	1930	0.8
HC1700-2	<1	2.7	<10	14.4	1520	1.1
HC1700-3	<1	1.7	<10	9.4	8070	0.5
HC1700-4	<1	1.2	<10	12.6	2770	0.6
HC1700-5	<1	4.2	<10	7.6	1690	0.9
HC1700-6	<1	3.8	<10	8.8	6160	0.3
HC1700-7	<1	1.8	<10	4.1	350	0.3
HC1700-8	<1	5.4	<10	15.0	860	1.7
HC1700-9	<1	6.6	<10	22.3	1230	1.1
HC1700-10	<1	5.7	<10	18.3	1180	0.9
HC1700-11	<1	2.7	<10	6.3	310	1.6
HC1700-12	<1	2.8	<10	11.3	1760	0.8
HC1700-13	<1	7.5	<10	26.4	1080	1.7
HC1800-1	<1	2.5	<10	10.9	2830	0.5

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ta GE_MMIM 1 -- ppb	Tb GE_MMIM 0.1 -- ppb	Te GE_MMIM 10 -- ppb	Th GE_MMIM 0.5 -- ppb	Ti GE_MMIM 10 -- ppb	Tl GE_MMIM 0.1 -- ppb
HC1800-2	<1	1.2	<10	5.8	4640	0.4
HC1800-3	<1	2.3	<10	3.6	420	0.8
HC1800-4	<1	1.1	<10	2.7	480	0.4
HC1800-5	<1	2.2	<10	4.6	470	0.4
HC1800-6	<1	4.0	<10	11.7	3540	0.4
HC1800-7	<1	3.8	<10	14.1	670	1.6
HC1800-8	<1	2.8	<10	9.7	1550	0.5
HC1800-9	<1	1.5	<10	5.2	3310	0.3
HC1800-10	<1	1.0	<10	11.1	1960	0.3
HC1800-11	<1	1.6	<10	6.0	640	0.3
HC1800-12	<1	2.0	<10	10.7	7830	0.2
HC1900-1	<1	2.1	<10	6.4	2350	0.5
HC1900-2	<1	2.0	<10	8.9	1480	0.4
HC1900-3	<1	2.2	<10	5.3	1330	0.5
HC1900-4	<1	1.0	<10	6.6	3450	0.3
HC1900-5	<1	6.1	<10	30.2	1030	1.3
HC1900-6	<1	2.5	<10	12.0	690	1.1
HC1900-7	<1	2.1	<10	8.5	3470	0.7
HC1900-8	<1	3.2	<10	3.8	1080	0.7
HC1900-9	<1	2.2	<10	5.3	580	0.6
HC2000-1	<1	1.8	<10	9.5	5100	0.5
HC2000-2	<1	1.1	<10	13.3	2100	0.7
HC2000-3	<1	1.9	<10	9.6	2080	0.4
HC2000-4	<1	3.6	<10	10.2	680	0.5
HC2000-5	<1	3.3	<10	3.5	470	0.7
HC2000-6	<1	2.4	<10	7.7	3110	0.5
HC2000-7	<1	2.5	<10	7.6	1190	0.4
HC2000-9	<1	4.2	<10	21.5	1160	1.8
HC2100-1	<1	7.7	<10	25.6	1000	1.3

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ta GE_MMIM 1 -- ppb	Tb GE_MMIM 0.1 -- ppb	Te GE_MMIM 10 -- ppb	Th GE_MMIM 0.5 -- ppb	Ti GE_MMIM 10 -- ppb	Tl GE_MMIM 0.1 -- ppb
HC2100-2	<1	6.0	<10	17.5	850	1.5
HC2100-3	<1	4.1	<10	19.8	840	3.3
HC2100-4	<1	4.6	<10	13.4	1820	2.3
HC2100-5	<1	2.8	<10	24.7	2260	1.3
HC2100-6	<1	0.7	<10	4.9	510	<0.1
HC2100-7	<1	3.2	<10	6.4	470	0.7
HC2100-8	<1	1.0	<10	6.8	1010	0.2
HC2200-1	<1	4.6	<10	18.7	1120	1.6
HC2200-2	<1	1.8	<10	6.4	910	0.3
HC2200-3	<1	1.9	<10	12.3	3490	0.5
HC2200-4	<1	1.6	<10	10.0	13000	0.3
HC2200-5	<1	0.6	<10	4.7	700	0.1
HC2200-6	<1	0.2	<10	4.8	7100	0.2
HC0100-25	<1	4.0	40	2.9	480	0.8
HC0200-01	<1	0.5	20	10.7	14800	0.5
HC0200-12	<1	1.4	20	23.3	4550	1.0
HC0300-01	<1	1.6	10	6.3	3460	0.3
HC0300-10	<1	1.1	<10	6.8	960	0.5
HC0400-01	<1	0.5	<10	5.6	960	1.0
HC0500-01	<1	0.8	<10	6.3	3110	0.6
HC0700-01	<1	1.6	<10	40.8	2510	1.5
HC1400-01	<1	1.1	10	13.9	5650	1.1
HC1500-08	<1	2.6	<10	17.8	5050	1.1
HC2000-08	<1	1.2	<10	<0.5	10	<0.1
4000N-8500E	<1	8.7	10	22.3	40	0.2
4000N-8550E	<1	9.7	10	27.8	40	0.1
4000N-8600E	<1	12.9	<10	59.0	50	0.1
4000N-8650E	<1	0.2	<10	1.7	30	0.1
4000N-8700E	<1	<0.1	<10	<0.5	20	<0.1

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	Ta GE_MMIM 1 -- ppb	Tb GE_MMIM 0.1 -- ppb	Te GE_MMIM 10 -- ppb	Th GE_MMIM 0.5 -- ppb	Ti GE_MMIM 10 -- ppb	Tl GE_MMIM 0.1 -- ppb
4000N-8750E	<1	7.0	<10	25.4	40	0.1
4000N-8800E	<1	6.3	<10	25.2	60	0.1
4000N-8850E	<1	11.4	<10	47.3	50	0.1
4000N-8900E	<1	12.3	<10	26.9	30	0.1
4000N-8950E	<1	11.3	<10	25.1	20	<0.1
4000N-9000E	<1	7.3	<10	24.9	30	0.1
4000N-9050E	<1	5.5	<10	27.1	110	0.3
4000N-9100E	<1	8.2	<10	30.9	30	0.2
4000N-9150E	<1	12.6	<10	21.2	20	<0.1
4000N-9200E	<1	7.8	<10	28.5	30	<0.1
4100N-8550E	<1	4.7	<10	29.5	60	<0.1
4100N-8600E	<1	15.9	<10	42.1	70	<0.1
4100N-8650E	<1	4.6	<10	19.3	90	0.2
4100N-8700E	<1	11.4	<10	53.7	30	0.2
4100N-8750E	<1	5.7	<10	14.8	60	0.1
4100N-8800E	<1	14.3	<10	42.9	70	0.2
4100N-8850E	<1	5.9	<10	22.8	70	<0.1
4100N-8900E	<1	12.3	<10	28.8	70	0.2
4100N-8950E	<1	10.3	<10	39.5	120	0.1
4100N-9000E	<1	10.2	<10	33.3	40	0.1
4100N-9050E	<1	9.0	<10	27.3	70	<0.1
4100N-9100E	<1	2.5	<10	4.4	30	<0.1
4100N-9150E	<1	7.7	<10	22.0	40	<0.1
4100N-9200E	<1	8.9	<10	37.3	40	0.2
*Rep HC0400-01	<1	0.4	<10	5.2	1100	1.1
*Rep 4000N-8900E	<1	12.7	<10	30.2	30	0.2
*Rep 4100N-8800E	<1	13.7	<10	43.7	60	0.2
*Rep HC2000-2	<1	1.0	<10	12.3	2000	0.7
*Rep HC2000-7	<1	2.6	<10	7.1	1240	0.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number GEOTRONICS
 Project Geotronics Consulting Inc.
 Submission Number GEOTRONICS/ 321 Soils (197-321)
 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element	Ta	Tb	Te	Th	Ti	Tl
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.1	10	0.5	10	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
*Blk BLANK	<1	<0.1	<10	<0.5	<10	<0.1
*Std MMISRM19	<1	1.3	<10	12.9	<10	0.9
*Rep HC1500-11	<1	4.0	<10	4.5	40	0.5
*Blk BLANK	<1	<0.1	<10	<0.5	<10	<0.1
*Rep HC1600-14	<1	2.4	<10	12.4	940	1.0
*Std MMISRM24	<1	0.8	<10	18.6	40	0.2
*Rep HC1800-5	<1	1.9	<10	3.4	270	0.4

Element	U	W	Y	Yb	Zn	Zr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	0.5	1	0.2	10	2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
HC1500-2	35.1	<0.5	102	9.7	450	37
HC1500-3	8.7	<0.5	20	4.0	150	10
HC1500-4	428	<0.5	174	10.7	1950	10
HC1500-5	31.9	<0.5	47	5.5	440	41
HC1500-6	7.9	0.6	98	10.3	150	32
HC1500-7	70.1	<0.5	80	7.5	260	36
HC1500-9	19.6	<0.5	28	4.5	330	9
HC1500-10	12.6	<0.5	75	7.0	860	25
HC1500-11	8.6	<0.5	124	11.4	80	46
HC1500-12	20.7	<0.5	154	13.1	330	58
HC1500-13	1.9	<0.5	13	2.6	400	26
HC1500-14	16.4	<0.5	215	14.9	330	18
HC1500-15	13.1	<0.5	71	6.2	630	39
HC1500-16	8.9	<0.5	50	5.8	150	42
HC1600-1	497	1.2	81	6.5	120	12
HC1600-2	722	4.0	115	11.3	240	59

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	U GE_MMIM 0.5 -- ppb	W GE_MMIM 0.5 -- ppb	Y GE_MMIM 1 -- ppb	Yb GE_MMIM 0.2 -- ppb	Zn GE_MMIM 10 -- ppb	Zr GE_MMIM 2 -- ppb
HC1600-3	42.9	<0.5	30	2.6	230	27
HC1600-4	573	1.3	149	12.1	100	38
HC1600-5	1150	0.8	176	14.5	200	34
HC1600-6	344	1.0	204	16.8	330	46
HC1600-7	1480	<0.5	277	23.2	230	40
HC1600-8	11.1	<0.5	30	3.9	490	16
HC1600-9	40.0	0.5	123	9.5	70	26
HC1600-9	50.9	<0.5	173	12.7	780	23
HC1600-10	86.9	0.6	145	10.8	310	42
HC1600-11	96.5	<0.5	105	8.8	1160	26
HC1600-12	145	<0.5	146	11.2	140	38
HC1600-13	42.0	<0.5	113	8.7	360	9
HC1600-14	22.1	<0.5	54	4.4	270	29
HC1700-1	26.4	<0.5	84	7.7	530	46
HC1700-2	22.9	<0.5	81	7.4	220	56
HC1700-3	7.6	0.7	57	5.5	980	42
HC1700-4	8.9	<0.5	34	5.2	200	47
HC1700-5	111	1.0	143	10.8	470	17
HC1700-6	33.3	1.8	178	16.4	70	35
HC1700-7	50.9	<0.5	76	6.5	210	24
HC1700-8	1140	0.9	158	11.6	210	34
HC1700-9	560	1.1	182	16.1	360	23
HC1700-10	1180	0.6	182	15.2	430	23
HC1700-11	3420	<0.5	96	7.8	2210	12
HC1700-12	102	0.5	83	6.5	240	47
HC1700-13	805	3.0	241	19.0	290	50
HC1800-1	376	0.9	81	6.4	90	31
HC1800-2	22.7	2.6	44	5.9	210	50
HC1800-3	221	<0.5	88	5.7	200	8

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	U GE_MMIM 0.5 -- ppb	W GE_MMIM 0.5 -- ppb	Y GE_MMIM 1 -- ppb	Yb GE_MMIM 0.2 -- ppb	Zn GE_MMIM 10 -- ppb	Zr GE_MMIM 2 -- ppb
HC1800-4	43.5	<0.5	34	3.9	320	28
HC1800-5	37.8	<0.5	71	6.8	200	33
HC1800-6	67.1	1.4	124	9.4	90	44
HC1800-7	85.7	1.6	92	7.7	120	28
HC1800-8	28.3	0.8	97	7.2	270	31
HC1800-9	4.8	<0.5	59	6.0	170	23
HC1800-10	17.9	1.0	29	4.0	150	23
HC1800-11	11.0	<0.5	55	5.5	210	23
HC1800-12	15.3	1.8	78	8.2	220	36
HC1900-1	4110	2.1	95	7.9	640	21
HC1900-2	905	1.8	73	8.5	690	36
HC1900-3	3520	2.4	124	14.5	670	18
HC1900-4	199	3.6	40	6.2	130	29
HC1900-5	883	5.6	187	15.2	60	51
HC1900-6	490	0.6	91	7.6	110	29
HC1900-7	791	1.8	89	7.5	330	28
HC1900-8	2550	2.0	159	12.2	330	10
HC1900-9	1200	0.9	102	8.0	220	16
HC2000-1	3110	5.2	76	6.2	220	31
HC2000-2	362	2.1	37	4.9	410	11
HC2000-3	607	2.7	50	4.6	410	26
HC2000-4	2510	1.2	116	8.6	100	29
HC2000-5	1940	3.4	178	12.3	1350	4
HC2000-6	235	2.7	84	6.4	270	23
HC2000-7	2450	4.7	90	6.5	80	24
HC2000-9	2060	3.8	134	10.7	190	30
HC2100-1	2900	5.1	244	18.7	160	21
HC2100-2	843	0.9	192	15.0	200	22
HC2100-3	940	2.5	117	9.2	370	31

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 Number of Samples 125

ANALYSIS REPORT BBM22-24409

Element Method Lower Limit Upper Limit Unit	U GE_MMIM 0.5 -- ppb	W GE_MMIM 0.5 -- ppb	Y GE_MMIM 1 -- ppb	Yb GE_MMIM 0.2 -- ppb	Zn GE_MMIM 10 -- ppb	Zr GE_MMIM 2 -- ppb
HC2100-4	1550	2.9	179	15.9	460	23
HC2100-5	64.6	1.7	82	7.1	770	29
HC2100-6	25.5	<0.5	33	5.7	60	26
HC2100-7	4280	1.6	144	10.1	210	16
HC2100-8	188	<0.5	36	6.0	110	21
HC2200-1	1600	2.5	151	12.9	420	50
HC2200-2	20.4	0.5	67	5.5	300	26
HC2200-3	215	1.9	66	6.3	230	42
HC2200-4	24.9	2.7	62	7.1	830	34
HC2200-5	3.4	<0.5	19	4.4	130	26
HC2200-6	3.1	0.8	10	2.9	170	33
HC0100-25	7.8	<0.5	118	8.2	210	19
HC0200-01	6.3	1.4	19	4.3	270	28
HC0200-12	11.3	2.2	25	3.2	110	21
HC0300-01	5.1	<0.5	63	6.4	280	30
HC0300-10	9.4	<0.5	31	4.4	400	16
HC0400-01	4.2	<0.5	13	2.1	380	11
HC0500-01	5.7	<0.5	37	7.2	280	36
HC0700-01	15.1	<0.5	56	7.5	740	24
HC1400-01	28.4	2.6	55	9.4	670	20
HC1500-08	123	3.0	88	7.3	1270	27
HC2000-08	567	<0.5	84	9.5	30	3
4000N-8500E	31.2	1.0	256	23.3	740	131
4000N-8550E	36.7	<0.5	294	26.9	550	125
4000N-8600E	28.5	<0.5	372	36.3	180	132
4000N-8650E	12.5	<0.5	7	0.7	50	19
4000N-8700E	8.7	<0.5	2	<0.2	40	9
4000N-8750E	36.4	<0.5	210	16.0	240	69
4000N-8800E	19.4	<0.5	183	17.5	300	46

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Element Method Lower Limit Upper Limit Unit	U GE_MMIM 0.5 -- ppb	W GE_MMIM 0.5 -- ppb	Y GE_MMIM 1 -- ppb	Yb GE_MMIM 0.2 -- ppb	Zn GE_MMIM 10 -- ppb	Zr GE_MMIM 2 -- ppb
4000N-8850E	30.3	<0.5	310	28.1	180	127
4000N-8900E	47.5	<0.5	405	35.0	250	80
4000N-8950E	35.2	<0.5	370	31.6	160	92
4000N-9000E	17.0	<0.5	198	20.5	930	154
4000N-9050E	12.4	<0.5	145	14.6	7480	168
4000N-9100E	29.7	<0.5	220	20.6	260	175
4000N-9150E	36.6	<0.5	378	35.5	390	114
4000N-9200E	27.6	<0.5	240	23.2	460	160
4100N-8550E	51.6	<0.5	149	13.7	480	67
4100N-8600E	87.1	<0.5	442	41.9	450	278
4100N-8650E	36.5	<0.5	132	12.7	1300	91
4100N-8700E	25.8	<0.5	336	29.5	80	65
4100N-8750E	31.1	<0.5	194	17.0	930	116
4100N-8800E	51.1	<0.5	447	53.2	510	209
4100N-8850E	33.6	<0.5	174	17.9	690	178
4100N-8900E	58.7	<0.5	389	35.7	610	172
4100N-8950E	36.5	<0.5	286	28.2	420	197
4100N-9000E	29.2	<0.5	301	29.3	340	272
4100N-9050E	26.6	<0.5	274	27.7	700	214
4100N-9100E	31.9	<0.5	87	10.4	100	72
4100N-9150E	27.2	<0.5	225	20.8	510	161
4100N-9200E	38.2	<0.5	275	22.7	300	179
*Rep HC0400-01	4.3	<0.5	12	2.0	380	11
*Rep 4000N-8900E	49.9	<0.5	416	34.1	220	89
*Rep 4100N-8800E	49.8	<0.5	422	47.6	510	202
*Rep HC2000-2	349	1.9	35	4.5	390	11
*Rep HC2000-7	2600	4.2	97	6.6	90	25
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2
*Std MMISRM19	67.3	<0.5	49	6.8	2650	13

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Element	U	W	Y	Yb	Zn	Zr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	0.5	1	0.2	10	2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
*Rep HC1500-11	9.4	<0.5	119	11.0	90	55
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2
*Rep HC1600-14	25.6	<0.5	63	5.1	290	32
*Std MMISRM24	11.4	<0.5	24	1.1	130	28
*Rep HC1800-5	33.2	<0.5	66	6.7	170	23

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