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ARIS Summary Report

Regional Geologist, Nanaimo

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ASSESSMENT REPORT: 27565

Mining Division(s): Vancouver

Property Name: Nugget Queen

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NTS: 092L14E
BCGS: 092L094

Camp:

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Operator(s): Pacific Topaz Resources Ltd.
Author(s): Molak, Bohumil B.

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Searched For:**

**General
Work Categories:** GEOP, PHYS, GEOC

Work Done:
Geochemical
 SAMP Sampling/assaying (16 sample(s);)
 Elements Analyzed For : Multielement
 SOIL Soil (106 sample(s);)
 Elements Analyzed For : Multielement
Geophysical
 EMGR Electromagnetic, ground (4.8 km;VLF)
Physical
 LINE Line/grid (4.8 km;)

Keywords: Jurassic-Cretaceous, Coast Plutonic Complex, Greenstones, Argillites, Quartz diorites, Granodiorites, Shear zones

Statement Nos.: 3220540

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Related Reports: 04252, 07991, 11283, 24334, 24958, 25884, 26391, 27352

GEOLOGICAL REPORT

ON THE

NUGGET QUEEN PROPERTY

Vancouver Mining Division

British Columbia

NTS 92L/14E, 92M/3E
50°59'30''N LATITUDE, 127°14' W LONGITUDE

Prepared for

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September 15, 2004



27,565
GEOLOGICAL SURVEY BRANCH
VANCOUVER BRANCH

Geological Report on the Nugget Queen Property

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1. SUMMARY

At the request of Pacific Topaz Resources Ltd., the writer conducted geological mapping, soil and rock sampling and geophysical surveys at the Nugget Queen property in July 2004. The objective of these surveys was to extend the knowledge of mineralized structures and to obtain more detailed information about the contents and grade of the base and precious metals mineralization. During the ten days field work 106 soil samples, 16 rock samples were collected and 103 VLF-EM measurements were taken within the new grid that extends the previously investigated grid by 200 meters to the north-west.

The Nugget Queen property is situated approximately 35 kilometers north-east of Port Hardy between Nenahlnai and McKinnon Lagoons on the British Columbia mainland (NTS 92L/14E, 92M/3E). The area lies at a low altitude in a moderate climate and is accessible from Port Hardy by boat, float plane, or helicopter. The Nugget Queen property comprises two contiguous mineral concessions comprising 24 claim units covering an area of 600 hectares.

An old, base/precious metals mine that occurs on the Nugget Queen property produced more than 610 tons of ore during the 1940-s. The ore was processed in Tacoma and produced altogether 44.75 kilograms of silver, 20.9 kilograms of gold, 1.76 tons of copper, 10.2 tons of lead and 234 kilograms of zinc.

During the past three decades, the deposit has been explored using geochemical and geophysical surveys and limited Winke drilling. The surveys have identified eight quartz veins and several anomalous areas containing shear zone related, mesothermal, polymetallic, gold and silver mineralization.

The shear zones, hosted in metasedimentary and metavolcanic rocks, are accompanied by milky quartz (\pm carbonate) veins and silicified zones that contain sulfidic mineralization (mainly pyrite, pyrrhotite, chalcopyrite, galena and sphalerite) in the form of disseminations and fracture coatings. Gold and silver associate with the sulphidic mineralization. The veins range in width from a few centimeters up to 2.5 meters. The veins numbered 2 to 4 have a collective strike length of over 180 meters and width up to 1.5 meter; the vein # 6 (the Main Showing) has a length 37 meters and the width up to 2.5 meters and the vein # 8 has an approximate length of more than 50 meters and is up to 2.5 meters wide.

The shear zones and the host rocks have clear geochemical and geophysical signatures and several areas of coincident geochemical and geophysical anomalies have been indicated by these methods to occur intermittently in the extensions of the known mineralization over an area more than 500 meters long.

Based on the obtained results the writer recommends a two-phase exploration program. The first phase would consist of three weeks geochemical/geophysical surveys, mapping,

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sampling, mechanical trenching and channel sampling to explore the veins 2, 3, 4 and 5 and their west/north-west extensions and the extensions of the vein # 8 to the east and west. The second phase would include 500 meters of core drilling to explore the depth extensions, thickness and contents of the potential mineralized zones.

2. INTRODUCTION AND TERMS OF REFERENCE

This report has been prepared at the request of the President and CEO of Pacific Topaz Resources Ltd. of Vancouver. The writer was retained on July 18, 2004 and together with the field assistant Michael Kleso conducted the fieldwork at the Nugget Queen property during the period July 19 - 29, 2004. The field work consisted of mapping, geochemical sampling and geophysical surveys and, based on the obtained results, a re-interpretation of geological, geochemical and geophysical data, a re-evaluation of mineral potential of the property and recommendations for further prospecting and exploration have been made.

The writer is a consulting geologist having many years of experience in mineral exploration, and a Professional Geologist registered with the Association of Professional Engineers and Geoscientists of British Columbia.

The terms of reference for this assignment include preparation of a qualifying geological report in compliance with the Standards of Disclosure for Mineral Projects as set out in the Canadian Securities Administrators' (CSA) National Instrument 43-101 and its Companion Policy 43-101CP, and in accordance with the technical reporting guidelines and requirements stipulated in CSA Form 43-101F1.

It is the writer' understanding that this report will be used to satisfy Pacific Topaz Resources' Ltd. obligation to file an independent technical report in support of written disclosure concerning the Nugget Queen property.

3. DISCLAIMER

It was not within the scope of this assignment to independently verify the legal status or ownership of the mineral properties, or of the underlying option agreement and transfers of title. Pacific Topaz Resources Ltd. provided general information concerning the location and current tenure status of the mineral concessions. The writer has not reviewed the land title status, the documents supporting the mineral rights, nor completion of the required payments, procedural requirements and filings referred to above for the Nugget Queen property concessions. No other, third party concessions are known to exist in the immediate vicinity of the Nugget Queen property.

This report contains references to prior investigations within the property boundaries. The original data, statements or interpretations upon which these are based were not available to the writer, and the writer therefore does not take any responsibility for such statements or interpretations, whether they have been made public or not.

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4. PROPERTY DESCRIPTION AND LOCATION

The Nugget Queen property is located approximately 35 kilometers north-east of Port Hardy (Fig. 1). The property comprises 24 mineral concession units covering a total area of 600 hectares. It is located at 50°59'30"N latitude, 127°14' W longitude (NTS 92L/14E, 92M/3E) at elevation ranging from zero to 200 meters. It has a vegetation and climate typical of the west coast of the lower B.C. mainland.

Table 1: Claim Status

Claim Name	Tenure #	# of Units	Hectares	Due date
Nugget	333668	18	450	11-24-04
Queen	333667	6	150	11-24-04
TOTALS		24	600	

The concession, registered with the Vancouver Mining District, is shown in Fig. 1. The Fig 2 is a general outcrop map and a rectangle in the Fig. 2 shows the area covered by field mapping and sampling and geophysical survey addressed in this report.

5. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

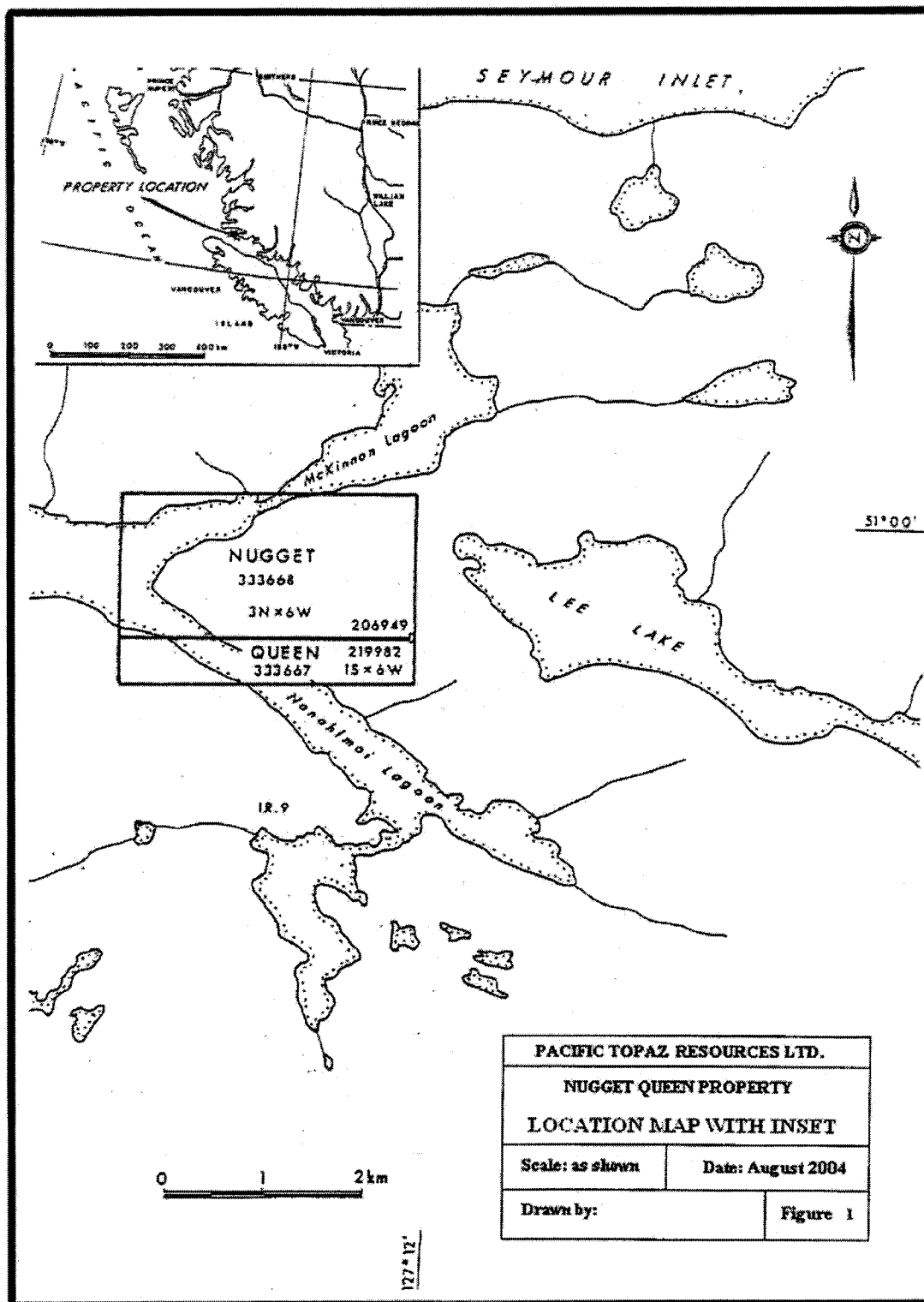
The Nugget Queen property is covered by a virgin forest made up mainly of cedar and minor spruce and pine. It has never been logged and many large, fallen trees and/or thick underbrush obstruct the passage. A 60 years old corduroy trail (Fig. 2) leads from the seashore to the main showing and a few old shortcut paths connect the veins # 4 and 5 with the corduroy trail and with a small lake that offers a good camping opportunity.

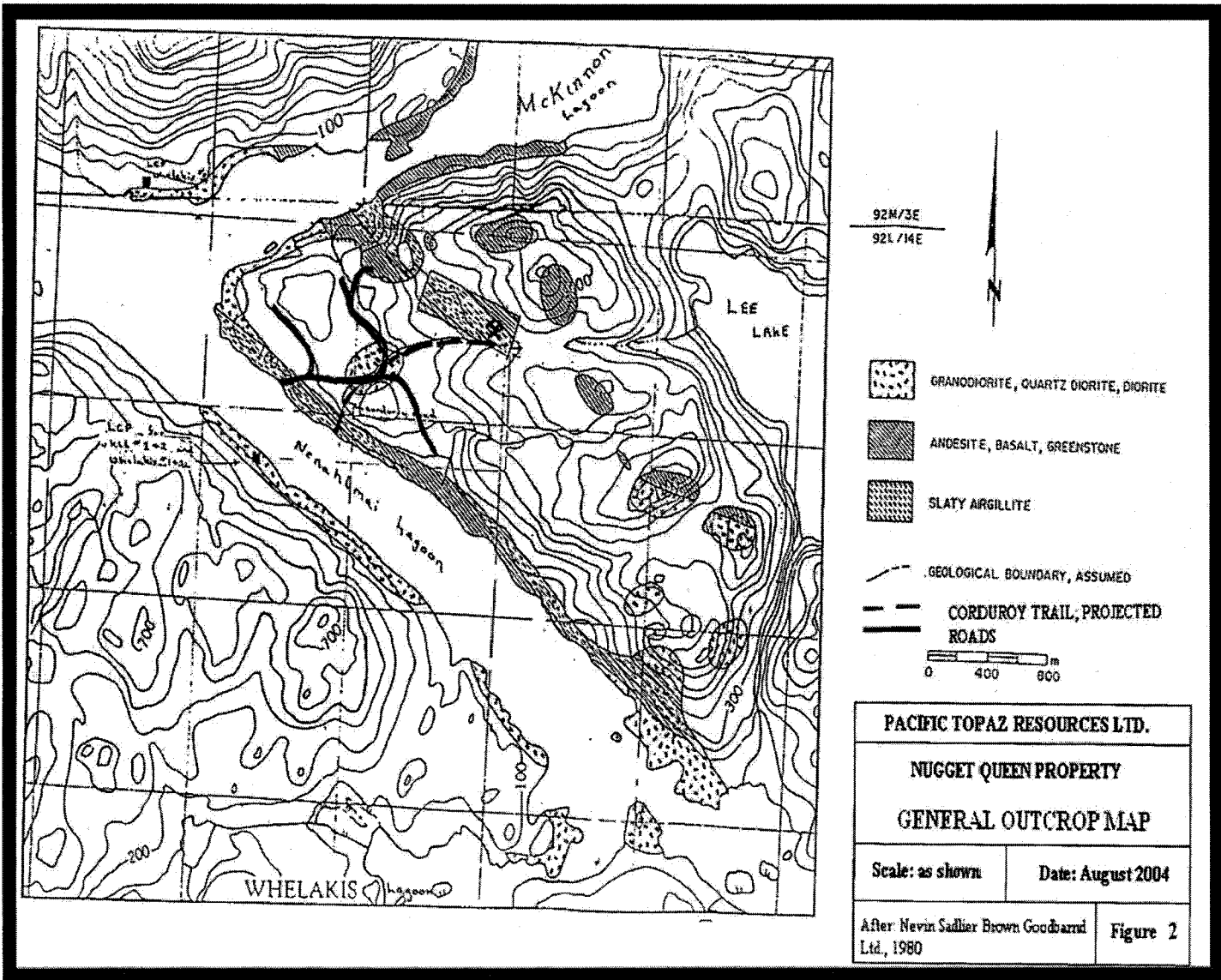
Recently, Interfor Forestry Company are constructing logging roads in the area (Fig. 2), which will pass about 700 meters west of the old mine (vein #6) and even closer to the newly explored areas. This will make the access to the property much easier and eventually, a reconstruction of the old corduroy trail could be considered to make a motorable access to the prospect. The forestry company's camp site is located at the eastern end of McKinnon Lagoon.

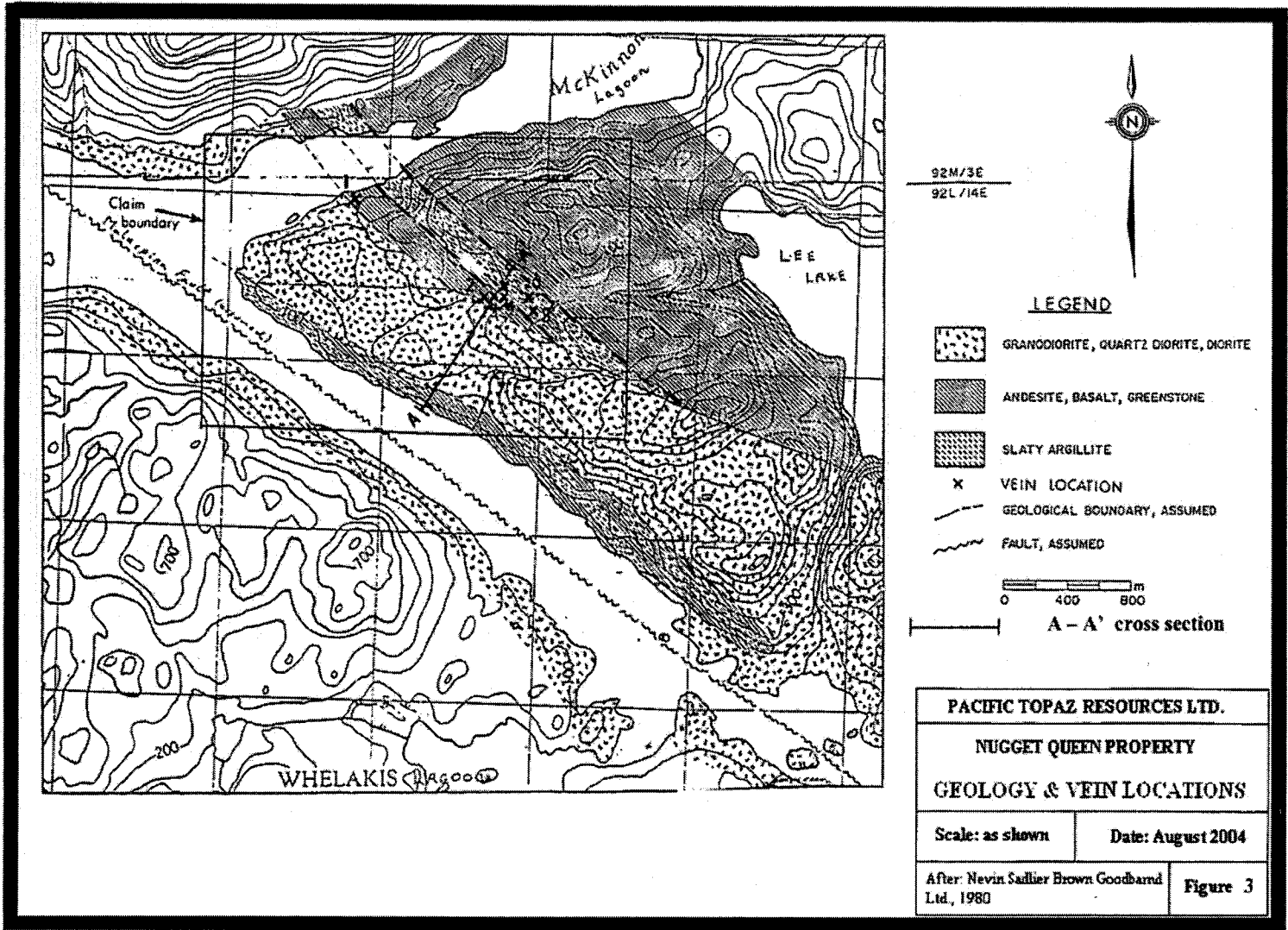
The rock exposure varies within the property. Most of the area has a moderate relief and dense vegetation and contains limited outcrop, although, there are some very steep to vertical areas (Fig. 7) and deep gullies where the outcrop is abundant. The overburden is generally thin, less than 1 meter.

The city of Port Hardy is the nearest industrial centre that provides all services required to conduct mineral exploration.

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6. HISTORY

The history of the concession begun in the late 1930's with the mapping of seven mineralized quartz veins and subsequent staking of the Silta claim by the Mining Company of Canada (MCC). Mining of the main vein started in 1940 and during that and the following year 604 tons of ore were mined and shipped to Tacoma. The metal production amounted to 43 kilograms of silver, 20.8 kilograms of gold, 1.76 tons of copper and 9.7 tons of lead. The mining was resumed in 1949 and the resulting production was 1.7 kilograms of silver, 93 grams of gold, 441 kilograms of lead and 234 kilograms of zinc.

The claims were then dormant until 1973, when the QC 1-40 claims were staked and an electro-magnetic survey was conducted on claims QC 1-4. In 1979 the property was re-staked as the Whelakis Group by F. Beban Logging Ltd. and geological mapping, sampling, magnetometer and VLF-EM surveys were conducted. Five shallow Winke holes totalling 156.8 meters were drilled in 1983 around the main vein without conclusive results. In 1990 the property was reverted to the Crown, but in 1991 the property was re-staked by D. Heyman as Cherry 1-4 claims. Followingly, Nevin Sadlier-Brown Goodbrand Ltd. reviewed available geological information obtained in 1980 and recommended further program (Grove, 1996).

The property was re-staked again in 1995 as the Nugget and Queen claims and optioned to Solaia Ventures Inc. The geological, geochemical and geophysical surveys consisting of grid cutting, silt, soil and rock sampling, trenching and channel sampling and VLF-EM survey have been conducted (Yacoub and Young, 1997). The vein #8 was discovered during this survey. The results have shown that there is a potential for the extensions of the known veins and for new zones parallel to veins #s 2-3-4, 6 and 8, respectively. Accordingly, new exploration work was recommended to extend the geochemical and geophysical anomalies beyond the limits of 1995 survey and to carry out a new trenching program. The most important results of the trenching program are shown in the following table

Trench #	Host	Attitude	Au /width	Ag /width
1	Arg.		0.18/2.0	9.2/2.0
5	Arg.		21.99/0.60	>30/0.6
8	Arg.	120/68-72NE	0.039/2.0*	0.6/2.0*
9A	Arg.	130/50-60NE	0.53/2.0	0.9/2.0
9B	Arg.	124/64NE	4.45/3.0	5.2/3.0
10	Arg.	110-130/70-80NE	3.37/1.0	1.5/1.0
12	Arg.	150-160/65-70NE	7.65/1.3	13.1/1.3

Explanations: values for gold (Au) and silver (Ag) in grams per ton; width in meters; * a float sample from this trench returned >100 g/t Au and 525g/tAg. Values for Au and Ag from trenches #s 4, 6, 11, 13 and 14 returned less than 0.06 and 0.6, respectively.

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In, 1999, 2000 and 2003 the Pacific Topaz Resources Ltd. conducted additional geological investigations consisting of rock sampling, interpretation of assay results and recommendations (McCrossan 1999, 2000, 2003). 28 samples of float, from old dumps near veins #s 4, 5, 6 and 8 and two discontinuous chip samples from the veins #s 6 and 8 were collected. The average value for gold obtained from all samples was 4.56 g/t Au.

7. GEOLOGICAL SETTING

The Nugget Queen property lies within one of the poorly mapped and investigated areas of British Columbia. The early geological studies were undertaken by Richardson (1874), Dawson (1876), Whiteaves (1878), Leroy (1908) and Dolmage (in: Yacoub and Young, 1997). The Geological Survey of Canada initiated the "Coast Mountains" project in 1964 and the results were published in 1968.

According to new regional, geological scheme the Nugget Queen property area is part of the Insular Superterrane of British Columbia, which comprises the Wrangelia terrane on the Vancouver island and the Coastal Plutonic Complex along the adjacent south-western mainland. The south-western part of the Coastal Plutonic Complex consists of intermediate plutonic rocks of granitoid and diorite composition with minor felsic gabbroic bodies that were emplaced between Middle Jurassic and Middle Cretaceous periods.

The rock suites of the Wrangelia Terrane consist of volcanic and marine assemblages ranging in age from Middle Triassic (?) to Early Cretaceous (?). These assemblages represent the remnants, or the roof pendants trending north-west that have been metamorphosed to green schist – amphibolite facies metamorphism and locally were assimilated by the Coastal Plutonic Complex.

At the Nugget Queen property the roof pendant rocks represent metavolcanic greenstone of intermediate to mafic composition and marine, slaty argillite grading to black shale/schist with minor tuffaceous intercalations. The plutonic rocks on the property include quartz diorite, granodiorite and diorite (Figs. 4).

The regional structures in the area trend north-west. This trend also has the Malaspian Fault, which has been inferred to run along the axis of Nenahlnai Lagoon. The quartz veins and mineralized structures on the property trend east-west to north-west – south-east and dip steeply to the north. Previous studies (MCC, Grove, 1996, Yacoub and Young, 1997) have identified up to eight quartz vein exposures. The veins, numbered two to six, have a potential collective strike length of over 500 meters and are open to the west – north-west, east-south-east and at depth.

8. DEPOSIT TYPES

The Nugget Queen property is host to mesothermal type polymetallic vein mineralization emplaced either along east-north-east – west-south-west, or east-west trending shear zones. The shear zones developed during and/or after the extensional episode of shearing deformation and acted as conduits for hydrothermal fluids, which precipitated their

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contents at the contact or about the metasedimentary black argillite shale/schist. The precipitation could have taken place due to reducing conditions prevailing within, or near the carbon-bearing lithology. At the same time, the carbon, or graphite in the country rock accumulated along the shearing planes and acted as lubricant for tectonic slabs moving along shear planes past each other.

Two vein systems occur at the property, the first trending roughly east – west (veins (#s 2, 3 and 4) and the second (veins #s 5, 6) trending ~120°. The former is composed of almost equidistant undulations spaced 15 – 20 meters and striking between 75 and 110°. Both systems dip to north – northeast at angles ranging from 65° to nearly vertical. The vein # 8 may belong to the first system however, the information is not sufficient enough to date to substantiate this.

Based on the cross section constructed through the lithological unit and mineralized zone (Fig. 4) the rocks underlying the property represent tectonic scales trending uniformly north-west and dipping north-east. This tectonic assemblage is probably a result of collision that progressed from north, or north-east and the acute angle between the general structures/lithological boundaries and the two systems of mineralized veins are conducive to oblique collision and shearing deformation with dextral strain component (Fig. 5).

The absence of contact-metamorphic effects in volcanic rocks and black shale/schist suggests the plutonic and meta-sedimentary rocks on the property came into contact due to tectonic processes post-dating the intrusive event. In support of this, the alteration in the plutonic rock seems to be coeval with the low-grade metamorphism of the enclosing rocks and with the deformation event. After the collision, the argillitic black shale/schist and the metavolcanic rocks in the area probably formed tectonic scales (shingles) and a tight fold with the plutonic rock in its hinge. The “upper” part of this fold was later removed due to erosion.

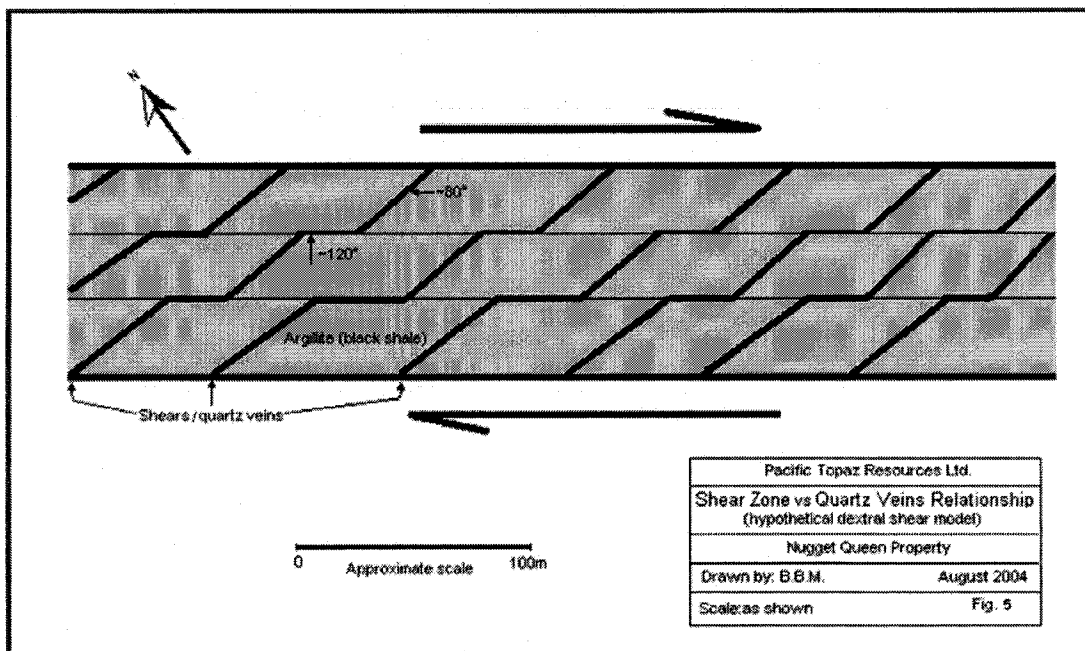
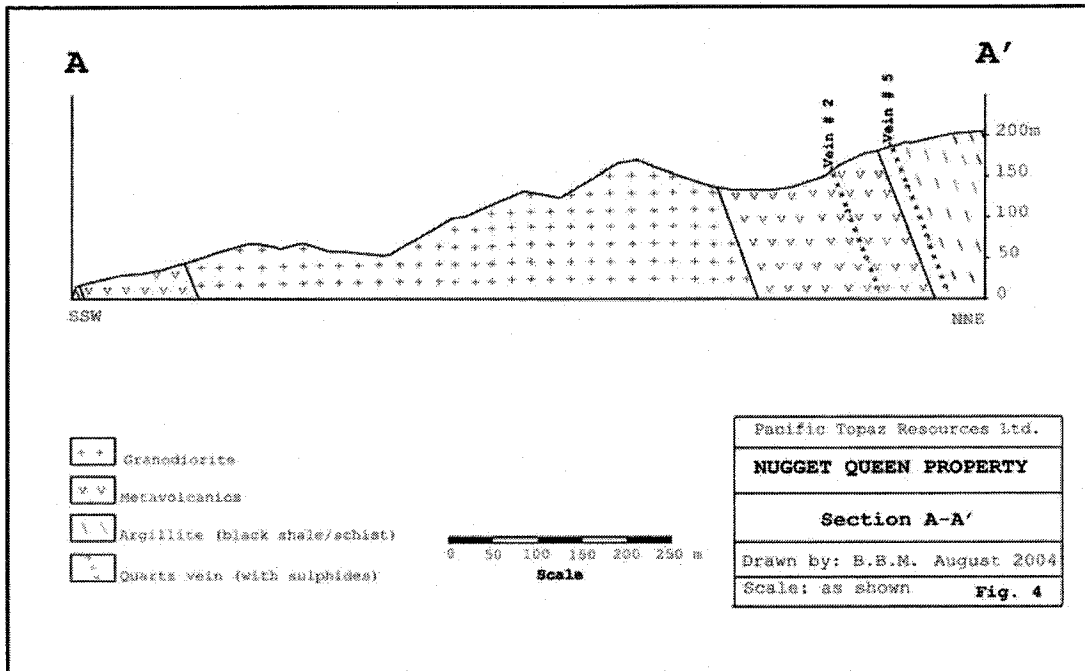
9. MINERALIZATION

Generally, the mesothermal type polymetallic mineralizations comprise the following mineral association: native gold – pyrite – pyrrotite - enargite – bournonite – chalcocite - argentite – tetrahedrite- chalcopyrite – bornite - galena – sphalerite- arsenopyrite – smaltite - niccolite – cobaltite (molybdenite - scheelite) – sulphosalts.

Based on the previous and present surveys and chemical analyses made for this report the following elemental and mineral associations emerge at Nugget Queen property:

a. Au – Ag – Bi – Cu – Pb – (Zn) – (W): native gold – native silver - argentite – bismuth and/or bismuthinite – chalcopyrite – galena – (sphalerite) – (scheelite)

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- b. Ag – Cd – Pb – Zn: native silver – argentite – galena – cadmium-bearing sphalerite
- c. Fe – Ni – Co: pyrrhotite, pentlandite, cobaltite
- d. Sb – Pb – Zn – Ag: tetrahedrite, stibnite
- e. Pb – Zn: galena-sphalerite
- f. Ca – Mg – Sr: calcite – dolomite - magnesite – siderite - ankerite

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g. P – Ti – V – Sc – Ga: apatite - monazite – sphene – rutile – magnetite - ilmenite, vanadinite

Most mineralized veins are located in the sheared silicified, or brecciated argillite, or black shale/schist with subordinate, volcanic, tuffaceous intercalations and/or in the metavolcanic rock. The quartz vein # 1 does not contain notable mineralization and the vein # 7, hosted by the plutonic rock, is sterile.

The individual mineralized veins vary in thickness from centimeters to 2.5 meters and the veins #s 2, 3 and 4 are up to 180 meters long. However, collective length of the veins #s 2, 3, 4, 5 and 6 would exceed 500 meters, if their contiguity can be proved. The veins are open along strike and depth, and presumably the extent of most of them is much greater than that observed in the outcrops, mine, or trenches.

Table 2 summarizes information about the quartz veins on the property (based on Grove, 1996, Yacoub & Young, 1997 and data obtained during this survey):

#	Length	Thick	Attitude	Host	Min.	Ø width of sample	Ø grade for Au	Σ of assays
1	~100	1-3.5	40/85°NW	ABS	Q	-	-	-
2	~60	~1.5	WNW/~90?	MV	q/sul			-
3	40	0.05-0.5	WNW/~90?	MV	q/sul	0.38	39.96	37
4	80	0.05-1.5	WNW/~90	ABS	q/sul			
5	~80	~.5?	NW/?	ABS	q/ul			
6	29(37)	0.51-1.68	100/70°N	ABS	q/ul	0.66	22.26	15
7	?	?	?	GRD	?	-	-	-
8	~50	1-2	100/85°N	ABS	q/sul		0.66	4

Explanations: ABS – argillite-black shale/schist; MV – metavolcanics; GRD – granodiorite; Min. – mineralogy; q – quartz; sul – sulphides (mainly pyrite, chalcopyrite, galena, sphalerite, pyrrhotite); length, thickness, width of sample in meters; grade in grams per ton.

The sulphides and magnetite occur in the gangue minerals, or in encasing altered metasedimentary, or meta-volcanic rocks minerals in two generations; the older in the form of disseminations, blebs and/or clusters and the younger in the form of coatings along brittle fractures.

The precious metals mineralization associates with the sulphide mineralization, presumably in the form of microscopic inclusions. Silver may preferably associate with galena and/or tetrahedrite.

The gangue minerals at the property include quartz-carbonate-chlorite-sericite-graphite (or semi-graphite) and the wall-rock alteration includes moderate to intense silicification, carbonatization, chloritization, sericitization and argillitization, typical for mesothermal mineral deposits. The supergene alteration/oxidation products are bornite, malachite (on account of chalcopyrite); hematite, limonite, or goethite on account of magnetite and/or iron containing sulphide minerals

10. EXPLORATION

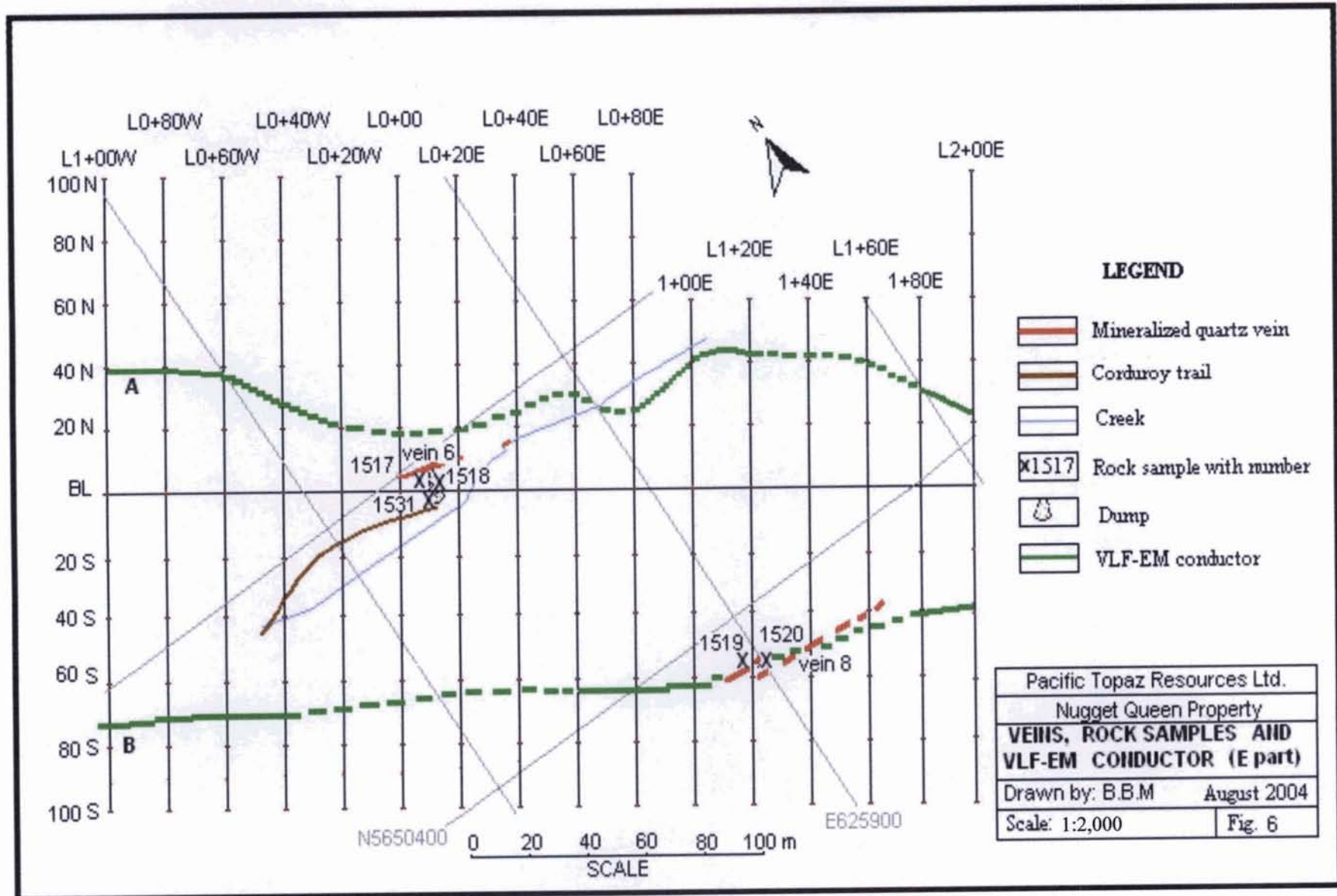
Geological mapping, soil and rock geochemistry sampling and geophysical surveys have been conducted on the Nugget Queen property from July 19 to 29, 2004 with the objective to explore the extensions of the base and precious metals mineralization. Based on the results of previous investigations (Grove 1996, Yacoub and Young 1997 and McCrossan 2003) the area north-west of existing survey coverage has been selected for this survey. A grid using the old baseline has been set up and stations spaced 20 meters were marked perpendicularly, north-west of line 3+80 W up to the line 6+00W.

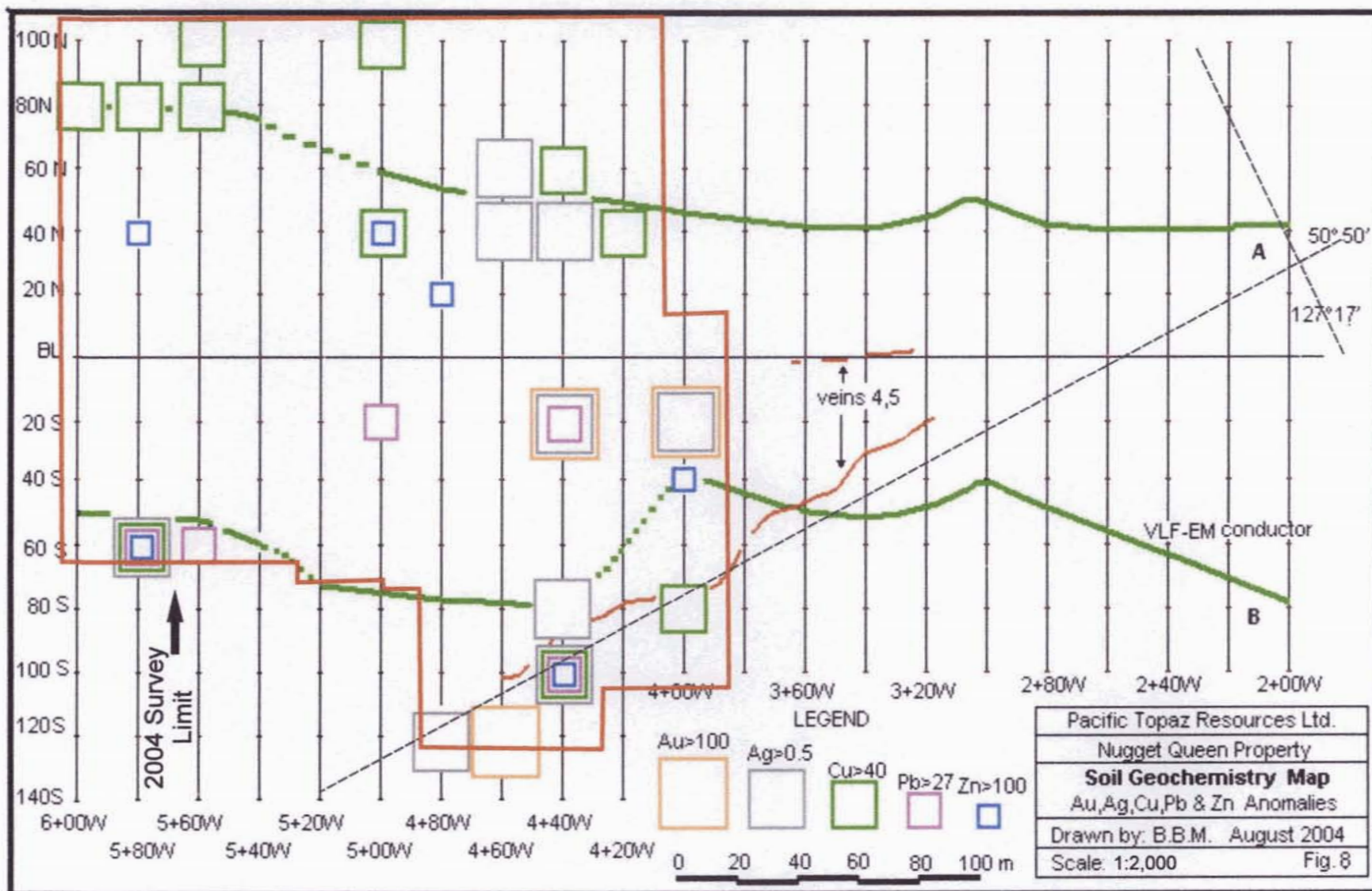
A total of 106 samples from the B-horizon of soil were taken and 103 VLF-EM measurements were recorded at stations within the grid (Figs 8, 9, 10, 11, Appendix 1). In addition, 16 simple grab, chip, and discontinuous chip channel rock samples were collected from the veins #s 2, 3, 4, 5, 6 and 8 (Figs. 6, 7, Appendix 2, 3). All assay values for gold, silver and copper have been plotted on the maps (Figs. 9, 10 and 11), whereas only anomalous and significantly elevated assay values were plotted for lead, zinc and arsenic (Figs. 12 , 13 and 14). The anomalous values printed in red and the anomalies east of the line 3+80 W inclusive come from the report of Yacoub and Young (1997). The maps in Figs. 9 to 11 actually show the area that has been covered by soil geochemistry and geophysical survey in July 2004.

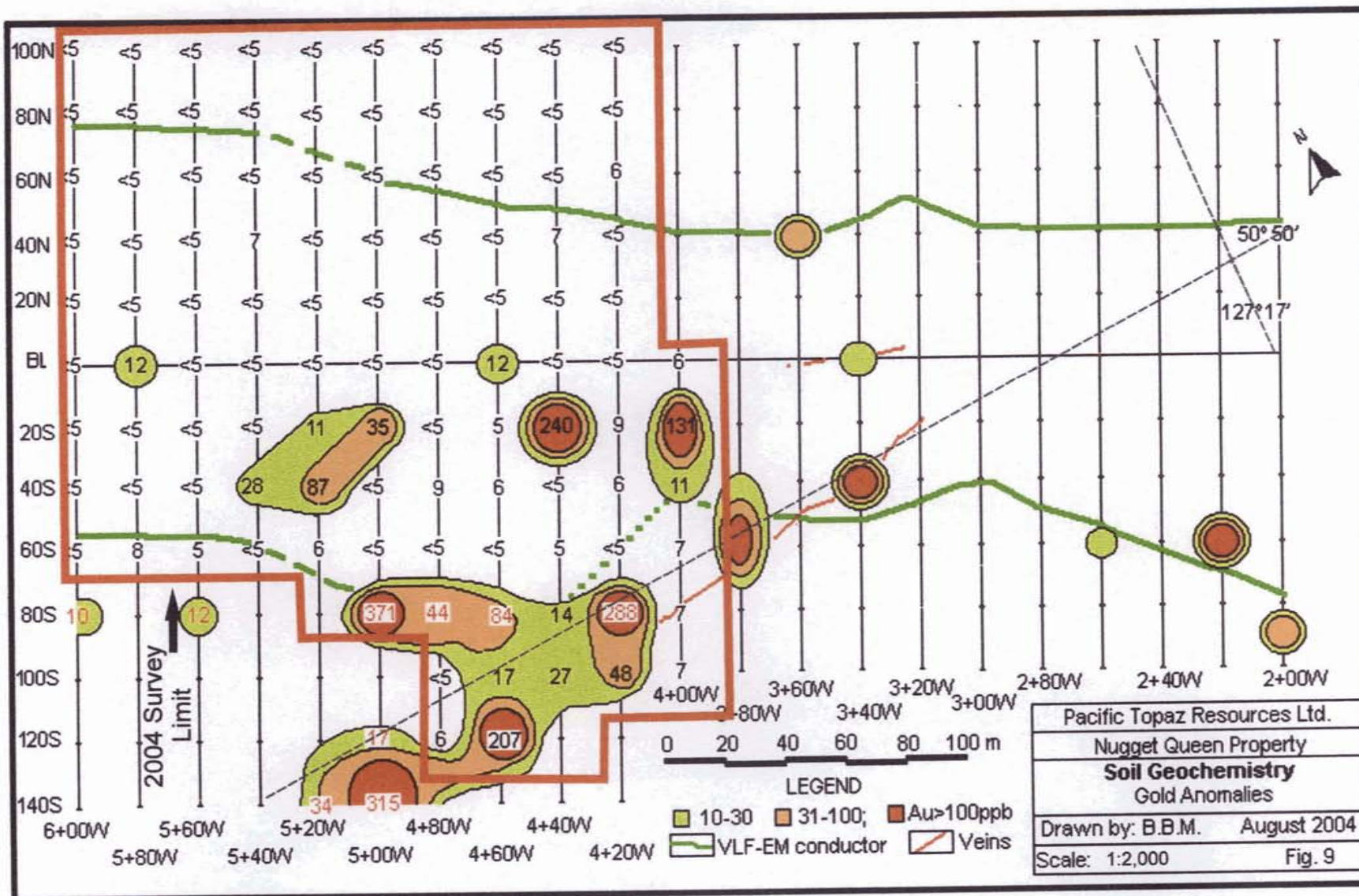
The mono-elemental anomaly maps also show the mineralized veins and VLF-EM conductors to see how geochemical data correlate with the geological and geophysical data. The ranges for low, medium and highly anomalous values were adopted from the previous survey (Yacoub and Young, 1997) to allow for the integration of the old and new data. However, the values for lead and arsenic were adjusted as shown in the table below. The distribution histograms for gold, silver, copper, lead, zinc and arsenic are shown in Fig. 15. In general, a good agreement was found between the results for gold, silver, copper and zinc obtained in our and the previous survey (Yacoub and Young, 1997). In most cases the ranges are close to 90, 95 and 97.5 percentiles.

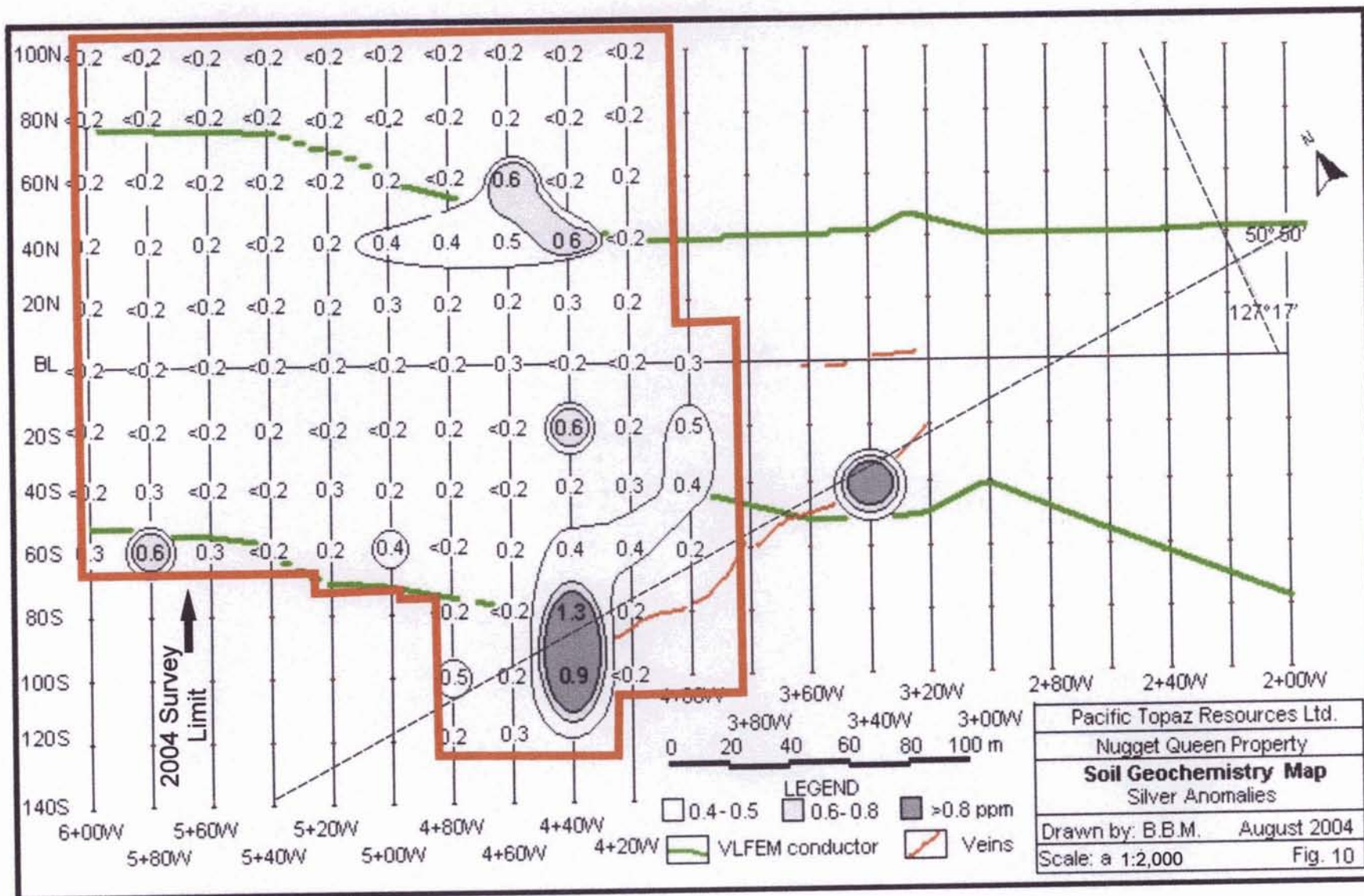
The following table lists the ranges for low, medium and high anomalous values:

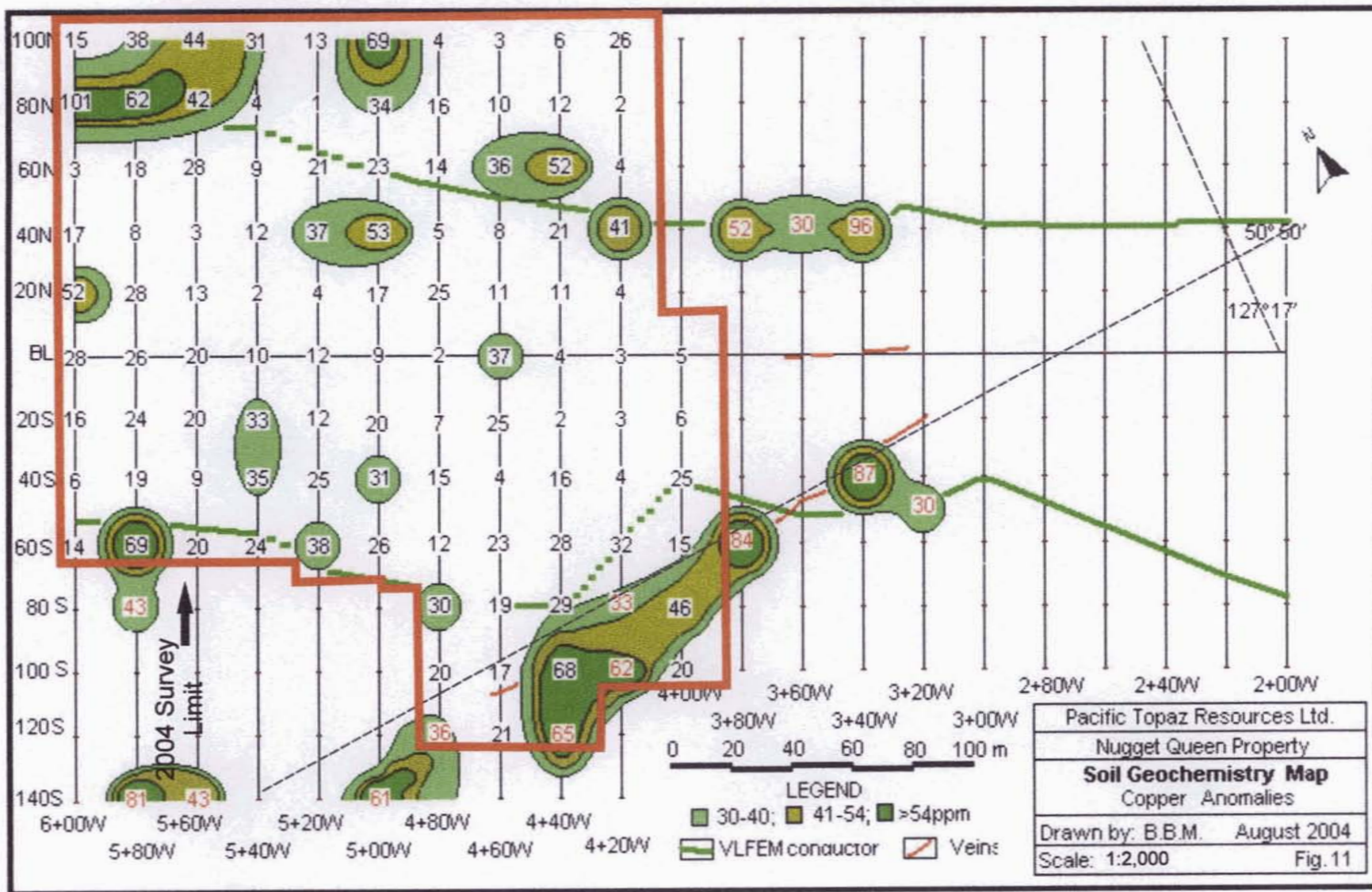
Element	Low	Medium	High
Gold (ppb)	10 – 30	31 – 100	>100
Silver (ppm)	0.4 – 0.5	0.6 – 0.8	>0.8
Copper (ppm)	30 – 40	41 – 54	>54
Lead (ppm)	25 – 40	41 – 60	>60
Zinc (ppm)	75 - 100	101 – 150	>150
Arsenic (ppm)	10 – 15	16 – 20	>20

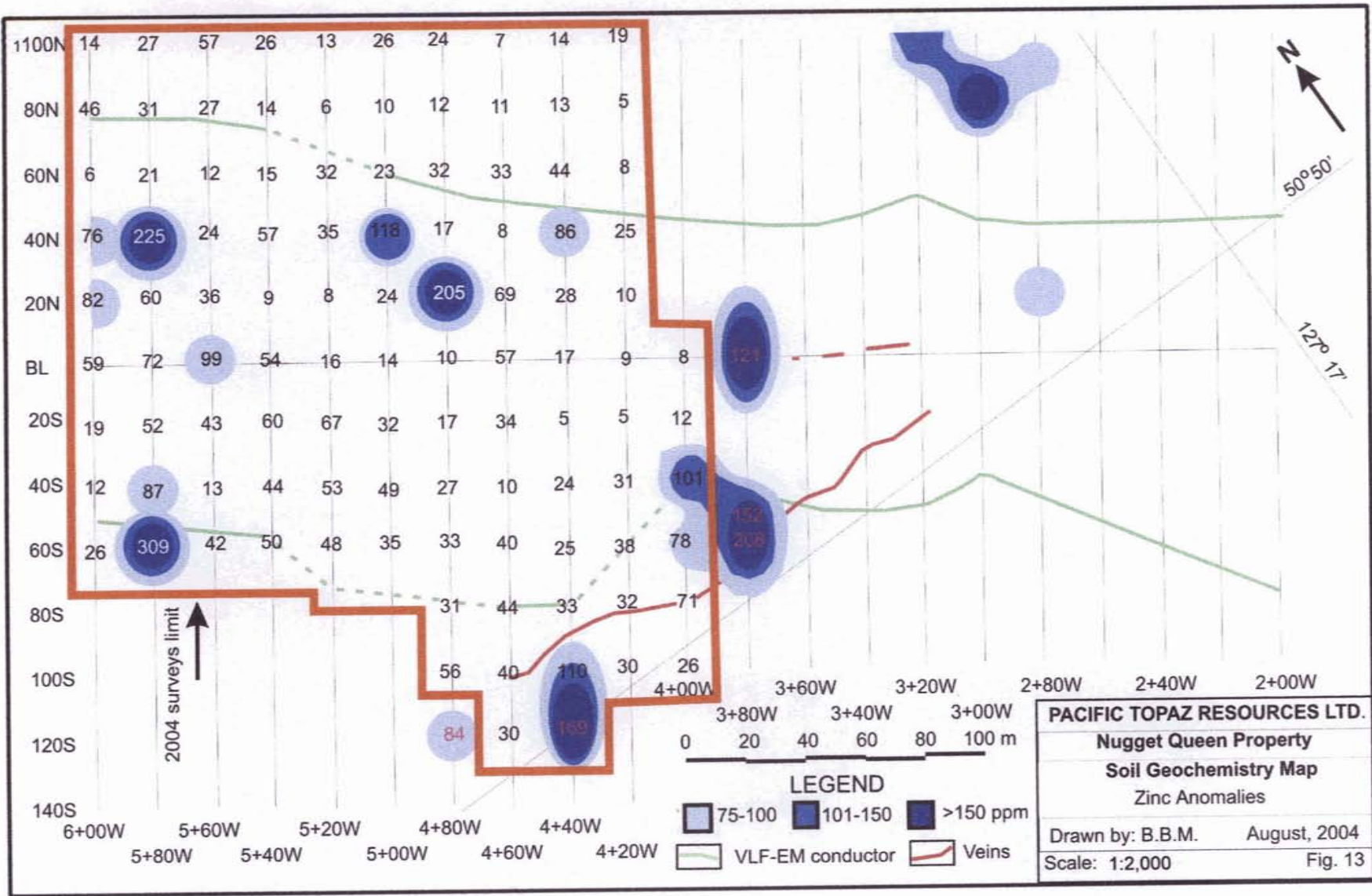


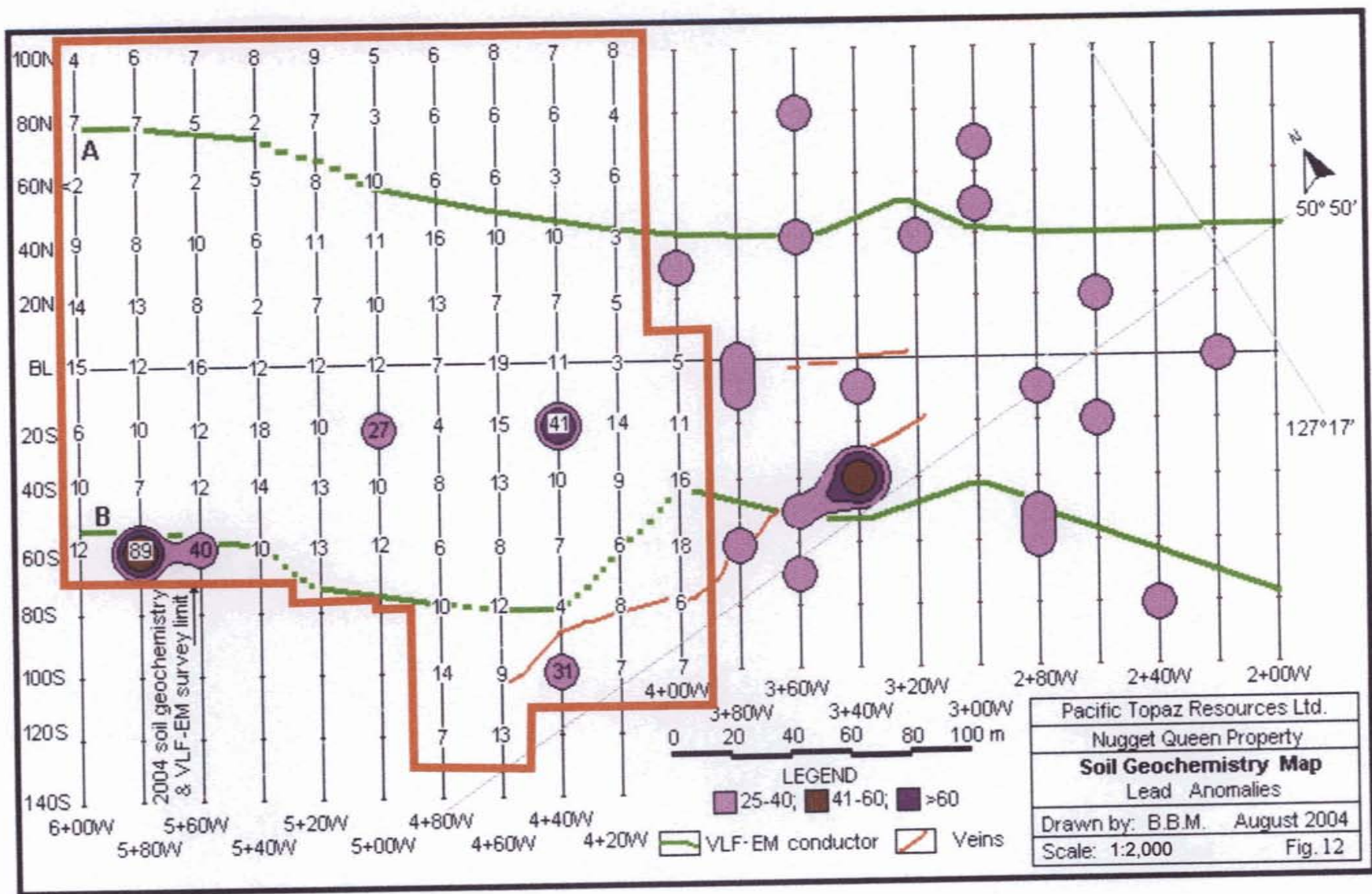


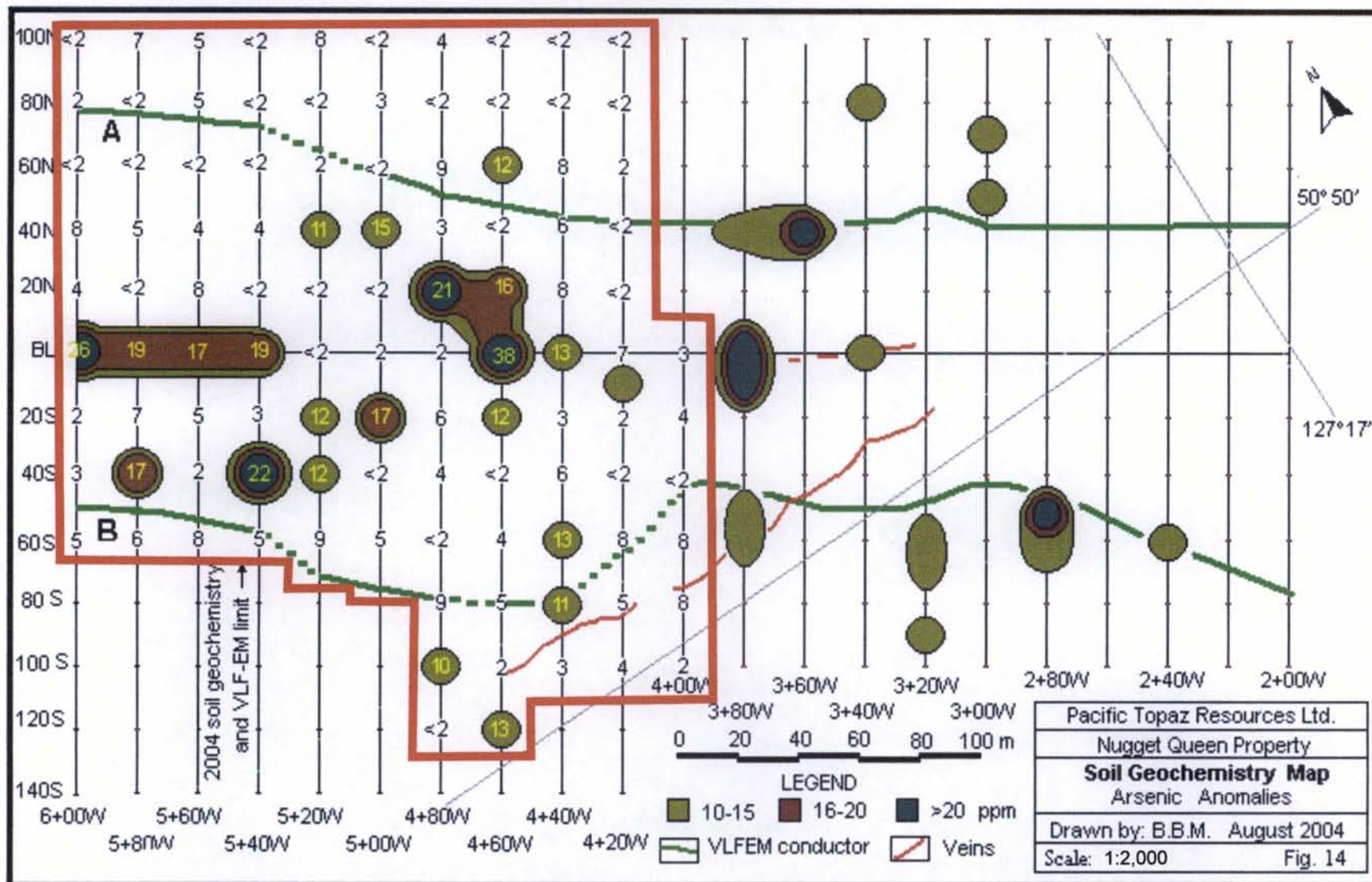


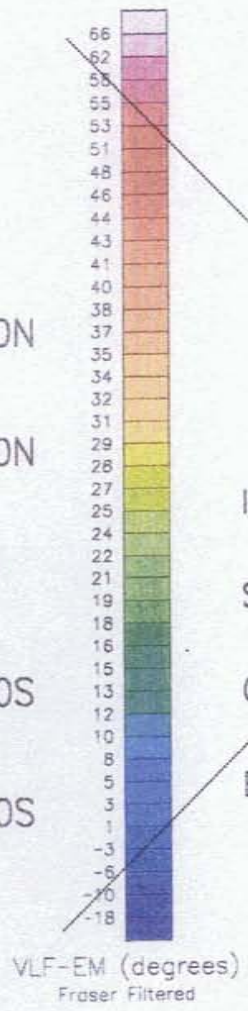
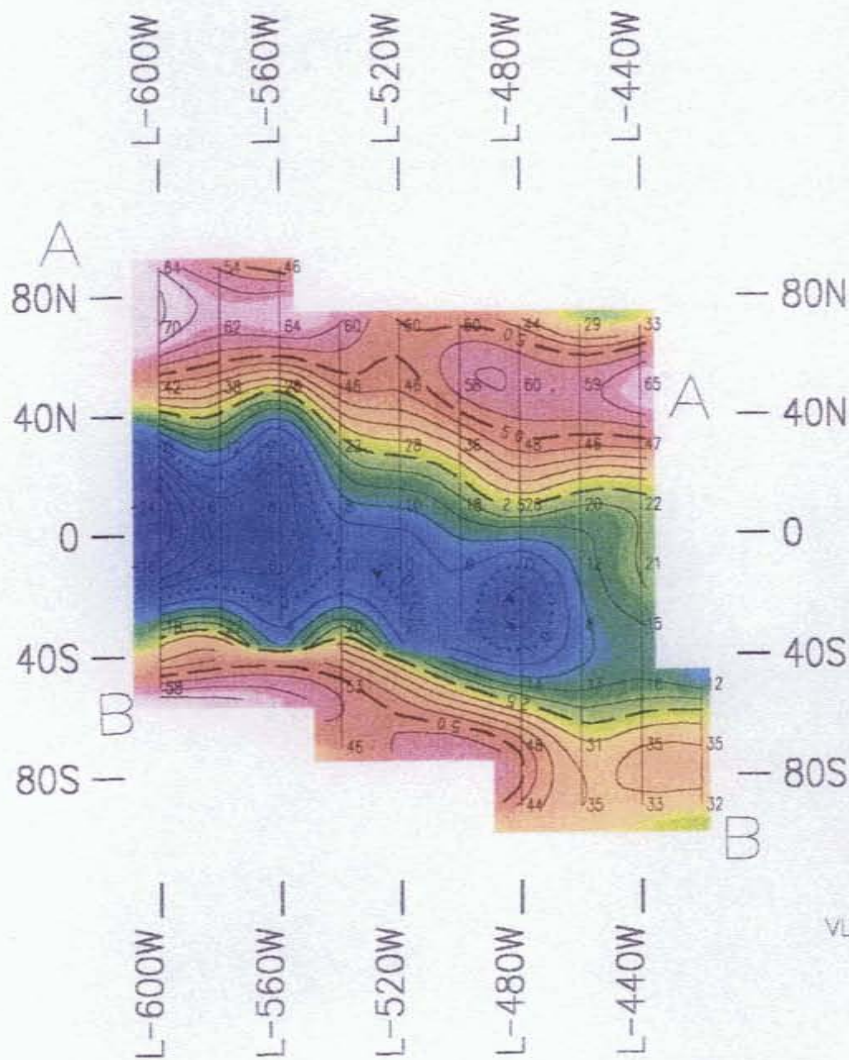










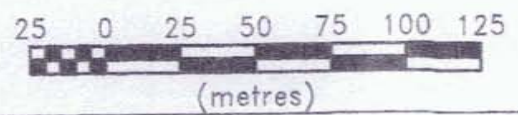


Instrumentation:
Sabre VLF-EM Receiver, Model 27

Survey Date:
July 2004

Contour Interval:
5 Degrees

Base:
0 Degrees



BORIS MOLAK, P Geo				
PACIFIC TOPAZ RESOURCES LTD				
NUGGET QUEEN PROPERTY				
SEYMOUR INLET AREA				
Vancouver Mining Division, B C				
VLF-EM SURVEY (FRASER FILTER)				
SURVEY PLAN				
Drawn by: DGM	Job No. 04-08	NTS 92M/14	Date Aug 04	Fig No. GP-1



Data Reduction by:
GEOTRONICS SURVEYS LTD.
SURREY BC.

SCALE
1:2,500

Geological Report on the Nugget Queen Property

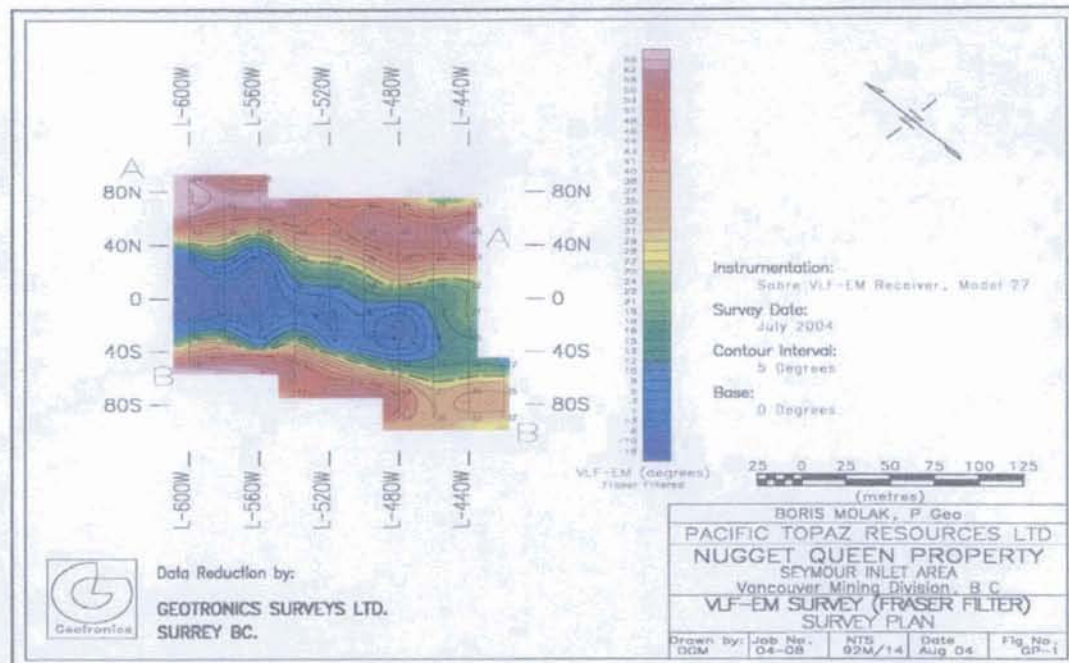
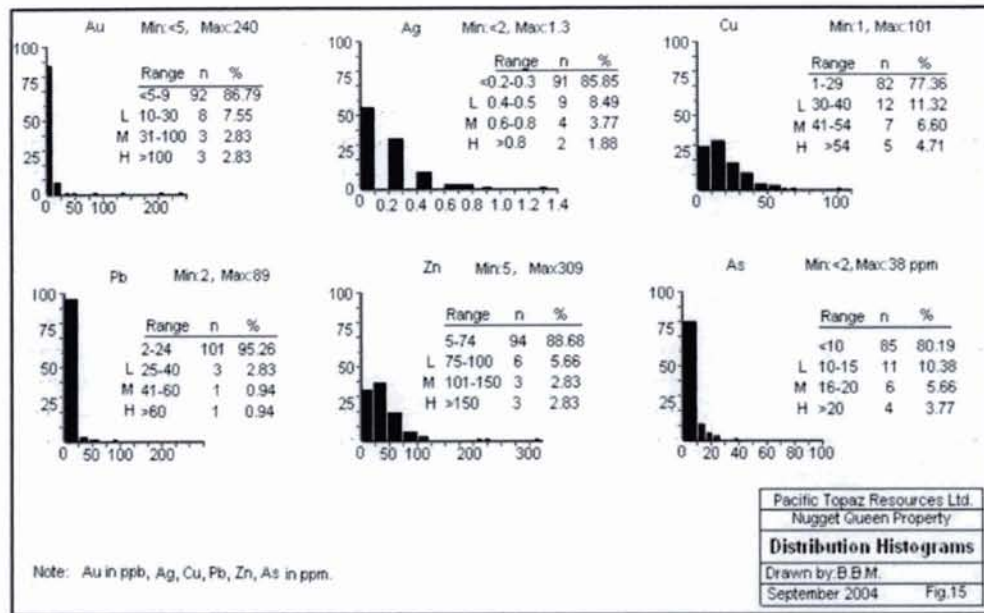


Fig. 16

Geological Report on the Nugget Queen Property

The VLF-EM measurements were made using a Sabre VLF-EM receiver model 27. The obtained data were Fraser filtered and computer plotted. D. Mark P. Geo processed the data and prepared the contour map showing the north-west extensions of A and B conductors (Fig. 16), which run north-west from the previously surveyed area.

The soil and rock geochemistry and electro-magnetic method proved to be suitable and cost effective methods during our survey. A new grid spaced 20 meters has been set up (without slope corrections) north-west of line 3+80 W to extend the prospected area by 200 meters (Figs. 7). The distances between stations +40S and- +60 S within the lines BL3+60 and 5+20 may be somewhat reduced due to an escarpment feature running between these lines (Fig . 7).

11. DRILLING

No data on historical drilling is available for the Nugget Queen property

12. SAMPLING METHOD AND APPROACH

The soil samples from B horizon were collected using a hand auger and rubber gloves were used for transferring the soil in the standard geochemical paper bags to prevent introduction of zinc and/or other trace elements into the samples.

The rock samples represent simple grab samples from the old dumps from the veins # 4,5 and 6, chip samples from the outcropping veins # (2?) 3,4,5 and 8 and discontinuous channel samples across the true widths of the veins # 3 and 8. The rock samples were taken using geological hammer, and/or a sledge hammer with chisel to obtain discontinued channel samples. After collection, the samples were placed in the standard polypropylene bags, provided with a tag with sample number and closed with the flagging tape. The sample descriptions are included in the Appendix 2.

GPS readings (NAD 27) were recorded at most stations, however, due to dense canopy the signal was too weak at some stations to obtain accurate reading and the error may be in the order of 50 - 100 m.

13. SAMPLE PREPARATION, ANALYSES AND SECURITY

The soil and rock samples were not modified after collection. The writer personally transported the samples from the property to Vancouver and dispatched them securely to the ALS Chemex Laboratory for analysis. The ALS Chemex Laboratory quality system complies with the requirements of the international standards ISO 9001:2000 and ISO 17025:1999.

The rock samples were crushed, split, pulverized and assayed using the following procedures: ME-ICP41 – 34 elements aqua regia ICP-AES; GEO-AR01 aqua regia digestion, and gold and silver over limit were assayed using Ag-AA46 Ore grade Ag – aqua regia /AA; Au-AA23 Au 30g FA-AA finish; Au-GRA-21 Au30g FA-GRA finish

Geological Report on the Nugget Queen Property

set. (see Appendix 3). The soil samples were dried, sieved (180µm) and assayed using ME-ICP41 – 34 elements aqua regia ICP-AES; GEO-AR01 aqua regia digestion

14. DATA VERIFICATION

The ALS Chemex Laboratory's quality control includes repeat sample assays as well as standard reference materials for gold and 34 elements suite (Appendix 3).

15. MINERAL PROCESSING AND METALLURGICAL TESTING

More than 610 tons of ore were mined out from the # 6 vein at the Nugget Queen property during the 1940-s. The ore was processed in Tacoma, and the production totalled 44.75 kilograms of silver, 20.9 kilograms gold, 1.76 tons copper, 10.2 tons of lead and 234 kilograms zinc (Minister of Mines, Annual Reports, 1939-1941, 1949). However, the information about processing methods and metallurgical data were not available to the writer.

16. MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

The results of the present field work, sampling and assaying program cannot be used in any attempt to calculate, or estimate mineral resources or reserves for the Nugget Queen property.

17. INTERPRETATION AND CONCLUSIONS

The Nugget Queen property is host to mesothermal, vein type, polymetallic mineralization emplaced along east-north-east – west-south-west to east-west trending shear zones. The veins contain milky quartz (\pm calcite) with base/precious metals mineralization in the form of sulphide disseminations and fracture coatings. Most mineralized veins are located in the argillite, black shale/schist with tuffaceous intercalations and in metavolcanic rocks, or near their contacts. The width of the veins ranges between a few cm to 2.5 meters. The collective length of the veins #s 2,3,4,5, 6 and 8 may exceed 500 meters.

The geochemical survey indicates the vein system composed of veins #s 2, 3 and 4 continues to the west and attains a collective length of more than 200 meters. The average assays in 16 rock samples returned 2.65 g/t gold and 30.48 g/t silver. A 0.9 m discontinuous channel sample from vein # 3 (01530) returned 5.52 g/t gold and 3 g/t silver. Average value for gold in samples 01519 and 01520 is 6.09 g/t Au and for silver 15.7 g/t Ag. These values comply with the results obtained by McCrossan (2003) and with the results of trench sampling reported by Yacoub and Young (1997).

The electro-magnetic survey results obtained during this field trip can be harmonically incorporated with the previous surveys. These results indicate that the metasedimentary and metavolcanic host rocks continue along strike to the north-west and other mineralized structures can be anticipated to occur in these lithologies in this direction.

Geological Report on the Nugget Queen Property

Based on the recent field work program and analytical results the area with the best potential appears to be the veins #s 2, 3, 4 and 5 and their extensions. The geochemical results indicate that the vein # 2 extends farther to the west and the approximate combined length of the mineralized zone thus exceeds 200 meters. This area should be given priority in the future exploration program. The second importance target appears to be the area of occurrence of # 6 and 8 veins. This area was selected and recommended in the previous survey (Yacoub and Young, 1997) and we fully support this selection.

The writer has no reservations in concluding that the Nugget Queen property has a merit for further exploration and remains to be an attractive polymetallic, gold and silver mineralization target. Its value may increase with the construction of logging roads by a private forestry company that will make the access and future exploration plans much easier.

18. RECOMMENDATIONS

We recommend the following, two phase exploration program.

The first phase would consist of a three week's campaign including geological mapping, sampling, geochemical and geophysical surveys in the north-western and south-eastern extensions of the existing geochemical/geophysical grid to explore the extensions of the known mineralized veins # 2 - 5 and 8 and to identify new exploration targets. We also recommend mechanical trenching to uncover the extensions of the veins #2, 3 and 8 and channel sampling.

The second phase would consist of three weeks campaign including 500 meters of core drilling to explore the depth extensions, thickness and contents of mineralized veins.

Budget Estimates

Phase I (20 mandays)	
Senior Geologist	\$6,000.00
Assistants (2)	\$8,000.00
Geological mapping/sampling	\$5,000.00
Geochemical prospecting	\$5,000.00
Geophysical survey	\$5,000.00
Trenching/channel sampling	\$10,000.00
Assays	\$5,000.00
Transportation	\$5,000.00
Camp expenses	\$7,000.00
Geological report	\$5,000.00
Miscellaneous (10%)	\$6,100.00
Total:	\$67,100.00

Phase II (20 mandays)

Geological Report on the Nugget Queen Property

Data review and planning	\$5,000.00
Logistics	\$3,000.00
Senior Geologist	\$6,000.00
Assistants (2)	\$8,000.00
Geological mapping/sampling	\$5,000.00
Geochemical prospecting	\$5,000.00
Geophysical survey	\$5,000.00
Trenching/channel sampling	\$10,000.00
Assays	\$5,000.00
Transportation	\$5,000.00
Access road reconstruction	\$5,000.00
Camp expenses	\$7,000.00
Core drilling (500m \$120/1m)	\$60,000.00
Geological report	\$5,000.00
Miscellaneous	\$13,400.00
Total	\$147,400.00

19. REFERENCES

Grove, E.W. 1996: Geological Report and Work Proposal on the Nugget Queen Claims, Seymour Inlet Area, B.C., Nevin Sadlier and Brown Goodbrand.

Mark D. 1996: Geophysical Report on the Nugget Queen property.

McCrossan E. 2003: Nugget Queen property, Geological Report, Vancouver Mining Division

Minister of Mines Annual Reports, 1939-1941, 1949

Monger J.W.H. and Journeay J.M. 1992: Guide to the Geology and tectonic Evolution of the Southern Coastal Belt. G.S.C. publ.

Yacoub F.F. and Young, J. 1997: Geological and Geochemical Report on the Nugget Queen Claim Group, Seymour Inlet Area, Vancouver Mining Division, B.C.

2004 Pacific Topaz Budget

Queen Nugget Project

Summer Exploration Program

Phase I Preparation	\$ 2,000.00
Crew Mobilization Cost	\$ 1,000.00
Geologist (11days @ \$650/day)	\$ 7,150.00
Field assistant (15 days @ \$250/day)	\$ 3,750.00
Prospector (2 days flat rate \$1,000.00)	\$ 1,000.00
Geophysics (\$500.00/km @ 2kms)	\$ 1,000.00
Assays	\$ 3,124.47
Equipment rental	\$ 2,000.00
Misc. (equipment, sample bags, maps, etc)	\$ 355.46
Truck Rental (11days @ \$60/day + \$0.60 per/km) 810kms	\$ 1,146.00
Car Rental (1day @ \$60 + \$0.60 per/km) 810kms	\$ 546.00
Gas	\$ 209.96
Travel (Ferry & Boat, Bus, Cab)	\$ 1,584.92
Accommodations	\$ 143.75
Report and Compilation Geologist (12days @ \$600/day)	\$ 7,200.00
Laptop Rental (4 weeks @ \$200/week)	\$ 800.00
Management/Supervision (14days @ \$500/day)	\$ 7,000.00
Camp Costs (\$25/day per person)	\$ 550.00
Food	\$ 840.01

\$41400.57

Total **\$41400.57**

Geological Report on the Nugget Queen Property

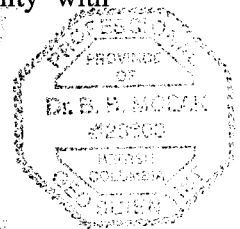
20. STATEMENT OF QUALIFICATIONS

I, Bohumil (Boris) Molák, Ph.D., P.Geo., do hereby certify that:

1. I am a Professional Geoscientist residing at 6240 Constable Drive, Richmond, BC, V7E 3Y2, Canada.
2. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (License No.28600).
3. I graduated from the Comenius University, Czechoslovakia, with a Bachelor of Science (Mgr.) Degree in Economic Geology in 1970. In 1980 I obtained the Master of Science Degree in Economic Geology (RNDr.) and in 1990 the title Doctor of Philosophy (CSc.) from the same, Comenius University. I have practiced my profession continuously since 1970.
4. Since 1970 I have been involved in geological research, prospecting, and exploration for precious and base metals, uranium, tungsten, molybdenum, nickel, cobalt, industrial minerals and hydrocarbons in Slovakia, Zambia, Cuba, Guinea, Canada, Chile and Argentina
5. I am presently a self-employed consulting geologist and have been in this position since July 31, 2003.
6. I conducted the field work and sampling on the Nugget Queen Property between July 19 and 29, 2004.
7. I am the Qualified Person for the purposes of National Instrument 43-101 and am responsible for all sections of this report. The sources of all information not based on personal examination are quoted in the report. The information provided by other parties is to the best of my knowledge and experience correct.
8. As of the date of this certificate I am not aware of any material fact or material change with respect to the subject matter of this report that is not reflected in this report, the omission of which would make the report misleading.
9. I am independent of Pacific Topaz Resources Ltd. in accordance with the application of Section 1.5 of National Instrument 43-101.
10. I have read National Instrument 43-101, Standards of Disclosure for Mineral Projects and Form 43-101F1, Technical Reports and this report has been prepared in compliance with NI 43-101 and Form 43-101F1 and in conformity with generally accepted Canadian mining industry practice.

B. Molak

Dated at Vancouver, BC, Canada, this 15th day of September, 2004.



September 15, 2004

Geological Report on the Nugget Queen Property

Appendix 1

Stations, Soil Samples & VLF-EM Data				
Easting	Northing	Station/sample	VLF-EM	Notes
Line 4+00 W				
625512	5650652	BL 4+00 W	+22	Baseline
625520	5650426	+20 S	+32	
625500	5650609	+40 S	+32	Very steep slope
625475	5650583	+60 S	+32	Medium steep
625484	5650618	+80 S	+46	Near the creek
625485	5650586	+100 S	+52	At the creek
		+120 S	+40	On other (S) side of creek
Line 4+20 W				
No reading		+20 N		
No reading		+40 N		
No reading		+60 N		
No reading		+80 N		
No reading		+100 N		
No reading		BL 4+20 W		Baseline
625500	5650624	+20 S	+36	
625493	5650621	+40 S	+30	Vertical outcrop of ABS, strike/dip 102/65 N
625480	5650606	+60 S	+34	Vertical outcrop of ABS, strike/dip 102/65 N
625450	5650632	+80 S	+44	Near creek, smooth slope
625460	5650573	+100 S	+55	Outcrop 7m S of creek; sample 1527 (q+sulph)
Line 4+40 W				
625494	5650695	+20 N	+18	Flat
625469	5650676	+40 N	+10	Smooth slope
625507	5650705	+60 N	-17	Medium slope
625512	5650704	+80 N	-20	Medium slope
625538	5650721	+100 N	-20	smooth slope
625478	5650645	BL 4+40 W	+22	Baseline
625480	5650840	+20 S	+28	Smooth slope
No reading		+40 S	+33	Steep to vertical, ABS outcrop, s/d 100/70 N
625494	5650653	+60 S	+32	Very steep slope
625463	5650596	+80 S	+45	Steep slope
625454	5650587	+100 S	+55	Near creek (~5m)
Line 4+60 W				
625489	5650679	+20 N	+16	Flat area
625498	5650695	+40 N	+10	Valley
625498	5650703	+60 N	-18	Valley
625512	5650717	+80 N	-15	Smooth slope SW
625517	5650728	+100 N	-22	Smooth slope to west
625480	5650658	BL 4+60 W	+22	Smooth slope to west
625466	5650651	+20 S	+24	Smooth slope to south

Geological Report on the Nugget Queen Property

625464	5650649	+40 S	+26	Steep slope to south
625443	5650630	+60 S	+28	Very steep, ABS outcrop, 92/65 N
625439	5650617	+80 S	+35	Medium slope, heavily forested
625430	5650601	+100 S	+50	Medium slope to south
625415	5650580	+120 S	+48	Near creek; outcrop, rock sample 1528
Line 4+80 W				
625468	5650702	+20 N	+16	Very smooth slope
625465	5650696	+40 N	+12	Flat
625483	5650720	+60 N	-12	
625490	5650738	+80 N	-20	
625493	5650753	+100 N	-24	Very dense underbrush
625444	5650678	BL 4+80 W	+32	Smooth slope
625433	5650692	+20 S	+22	Medium slope, ABS outcrop 120/70N
625446	5650673	+40 S	+26	Very steep, ABS outcrop 115/65N
625431	5650650	+60 S	+22	Steep slope
625415	5650638	+80 S	+40	Medium to steep slope
625407	5650626	+100 S	+56	Medium slope
625395	5650587	+120 S	+50	Medium slope
Line 5+00 W				
625457	5650692	+20 N	+18	
625470	5650718	+40 N	+14	Smooth slope
625480	5650705	+60 N	-6	Flat area
625481	5650753	+80 N	-20	Valley
625498	5650755	+100 N	-22	Deep gullies, thick underbrush
625444	5650685	BL 5+00 W	+26	
625435	5650674	+20 S	+24	Medium slope
625417	5650677	+40 S	+26	Very steep to vertical, ABS outcrop 110/72N
No reading		+60 S	+26	Outcrop – finely banded ABS 110/65 N
Line 5+20 W				
625440	5650693	+20 N	+20	Very smooth slope
625447	5650716	+40 N	+14	Very smooth slope
625470	5650733	+60 N	+2	Smooth slope to north
625477	5650747	+80 N	-14	Alluvial sand?
625484	5650770	+100 N	-20	Alluvial sand?
625520	5650705	BL 5+20 W	+24	Very smooth slope
625420	5650698	+20 S	+20	Scarp (ABS)
625395	5650685	+40 S	+24	Scarp (ABS)
625389	5650678	+60 S	+22	
Line 5+40 W				
625437	5650713	+20 N	+22	
625447	5650718	+40 N	+14	Smooth slope
625454	5650736	+60 N	+8	
625443	5650744	+80 N	-18	Close to outcrop
625451	5650726	+100 N	-20	
625423	5650671	BL 5+40 W	+22	

Geological Report on the Nugget Queen Property

625410	5650630	+20 S	+22	
625405	5650685	+40 S	+22	
No signal		+60 S	+42	
No signal		(+80 S)	+55	
Line 5+60 W				
625400	5650731	+20 N	+24	
625415	5650727	+40 N	+24	
625430	5650732	+60 N	+24	Near bottom of valley
625436	5650761	+80 N	-4	Valley
625476	5650828	+100 N	-12	Smooth slope
625409	5650706	BL 5+60 W	+22	
625407	5650719	+20 S	+18	
625397	5650682	+40 S	+22	
625384	5650696	+60 S	+22	
Line 5+80 W				
No signal		+20 N	+30	Small stream
625411	5650747	+40 N	+24	Very steep/vertical outcrop (no attitude avail.)
625424	5650755	+60 N	+18	Very smooth slope
625401	5650776	+80 N	-2	Medium slope
625442	5650783	+100 N	-18	Very steep, siliceous sericitized rock outcrop
625400	5650729	BL 5+80 W	+24	Smooth slope
625384	5650712	+20 S	+24	
625372	5650698	+40 S	+24	Outcrop (ABS), limonitized fractures, 120/70N
625307	5650676	+60 S	+46	
Line 6+00 W				
625385	5650736	+20 N	+32	Close to creek, outcrop of ABS 110/70N
625386	5650755	+40 N	+34	outcrop of ABS 125/70N
625414	5650762	+60 N	+22	Medium slope
625412	5650782	+80 N	+4	Medium slope
625424	5650777	+100 N	-18	Outcrop (MS+sulph.), 120/60N, sample 1529
625383	5650737	BL 6+00 W	+22	Near the creek
625369	5650714	+20 S	+22	
625368	5650707	+40 S	+18	Medium slope
625350	5650706	+60 S	+44	
No reading		(+80S)	+54	

Explanations: UTM readings using NAD27; ABS-argillite-black shale/schist; MS – mica schist; sulph.-sulphides; q-quartz; attitudes = strike and dip angles; sample stations in brackets –VLF-EM reading only (no soil sample taken).

APPENDIX 2

Rock Sample Information

Sample #	Easting	Northing	Vein #	Vein/gangue	Strike/dip (°)	Width/length	Type	Host/strike/dip	Mineralization
01517	625841	5650418	6	Q,graph;	100/65 N	0.5-1.7/29m	Grab	ABS	py-prh-chlc-ga;
01518	625841	5650418	6	Q	100/65 N	0.5-1.7/29m	Grab	ABS	py-prh-chlc-ga;
01519	625903	5650175	8	Q,silicif. ABS;	80/80 N	~2/~50m	DCH/2m	ABS, breccia	py-chlc-ga;
01520	625903	5650175	8	Q,silicif. ABS;	80/80 N	~2/~50m	DCH/2m.	ABS, breccia	Py-chlc-ga;
01521	625579	5650642	5	Q,graph;	95/70 N	~1/~75m	Chip	ABS 120/50NE	sulphides
01522	625538	5650605	5	Q	95/70 N	~1/~75m	Chip	ABS 120/50NE	sulphides
01523	625544	5650576	4	Q	85/90?	~1.5/~75m	Grab	ABS	sulphides
01524	625537	5650578	4	Q	85/90?	~1.5/~75m	Grab	ABS 130/75NE	sulphides
01525	625527	5650580	4	Q	85/90?	~1.5/~75m	Grab	ABS	sulphides
01526	625516	5650582	4	Q	85/90?	~1.5/~75m	Grab	ABS 130/75NE	sulphides
01527	625460	5650573	2	Q	85/90?	~1.5/~75m	Chip	MV	sulphides
01528	625415	5650580	2	Q	85/90?	~1.5/~75m	Chip	MV	sulphides
01529	625424	5650777	?	Q,carb?,feldsp?	85/90?	0.1m	Chip	MV 120/60 NE	py-chlc-
01530	625485	5650586	3	Q,silicif.chlor.graph;	70/60 N	0.6/~75m	DCH/0.9m	MV	sulphides
01531	625841	5650418	6	Q	100/65 N	0.5-1.7/29m	Grab	ABS 145/60NE	py-prh-chlc-ga;
01532	624438	5650187	N/A	Q, carb.,graph;	130/75 N	0.01m	Chip	ABS 130/75NE	sulphides

Explanations: DCH-discontinuous channel sample; ABS argillite-blackshale/schist; MV-metavolcanics; silicif.-silicification; chlor-chloritization; Q – quartz; py – pyrite; chlc – chalcopyrite; ga – galena; prh-pyrrhotite; carb.-carbonate; feldsp-feldspar; graph.-graphite.

APPENDIX 3
ASSAY CERTIFICATES



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

To: PACIFIC TOPAZ RESOURCES
501-905 W PENDER ST
VANCOUVER BC V6C 1L6

Page: 1
Finalized Date: 21-AUG-2004
This copy reported on 3-NOV-2004
Account: PACTOP

QC CERTIFICATE VA04051515

Project: Nugget Queen
P.O. No.:
This report is for 16 Rock samples submitted to our lab in Vancouver, BC, Canada on 4-AUG-2004.
The following have access to data associated with this certificate:
BOHUMIL MOLAK B. MOLAK

SAMPLE PREPARATION

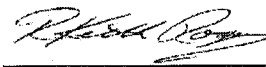
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31	Pulverize split to 85% <75 um
SPL-21	Split sample - riffle splitter
CRU-31	Fine crushing - 70% <2mm
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: PACIFIC TOPAZ RESOURCES
ATTN: B. MOLAK
501-905 W PENDER ST
VANCOUVER BC V6C 1L6

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

Signature: 



ALS Chemex
 EXCELLENCE IN ANALYTICAL CHEMISTRY
 ALS Canada Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

To: PACIFIC TOPAZ RESOURCES
 501-905 W. PENDER ST.
 VANCOUVER BC V6C 1L6

Page: 2 - A
 Total # Pages: 2 (A - C)
 Finalized Date: 21-AUG-2004
 Account: PACTOP

Project: Nugget Queen

CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
		0.02	0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
01517		0.98	0.733		1.5	0.56	79	<10	120	<0.5	<2	0.24	25.4	10	41	134
01518		1.10	>10.0	16.10	>100	0.15	<2	<10	10	<0.5	54	0.31	388	11	100	6010
01519		0.70	0.031		0.6	0.81	8	<10	50	<0.5	<2	0.09	0.6	5	141	41
01520		1.12	>10.0	12.15	70.8	0.08	26	<10	20	<0.5	20	0.01	14.0	3	120	1345
01521		0.88	0.021		1.0	2.08	15	<10	80	<0.5	<2	1.74	6.0	15	73	78
01522		1.38	0.699		7.8	0.33	108	<10	10	<0.5	<2	0.14	1.0	6	114	20
01523		0.72	0.079		6.7	1.50	92	<10	130	<0.5	<2	2.23	2.6	11	57	304
01524		1.06	4.68		33.8	0.03	5630	<10	<10	<0.5	9	0.05	16.6	77	109	1270
01525		0.78	0.014		0.7	5.37	8	<10	170	0.5	<2	2.30	<0.5	16	48	62
01526		1.00	0.010		0.7	5.61	29	<10	230	0.5	<2	3.15	<0.5	15	47	54
01527		0.70	1.630		0.5	0.50	19	<10	50	<0.5	<2	0.07	<0.5	7	41	5
01528		0.70	0.072		0.7	6.83	6	<10	250	0.8	<2	3.96	<0.5	35	18	235
01529		0.42	0.023		<0.2	1.32	<2	<10	90	<0.5	<2	1.45	<0.5	12	16	66
01530		1.20	5.52		3.0	3.01	13	<10	140	<0.5	<2	3.18	<0.5	17	159	187
01531		0.76	0.605		47.2	0.44	38	<10	20	<0.5	8	5.08	>500	14	37	503
01532		0.70	0.007		0.6	2.61	22	<10	60	<0.5	<2	2.29	1.4	16	25	70



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CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
01517		3.10	<10	<1	0.32	<10	0.20	86	63	<0.01	73	970	104	1.55	3	2
01518		3.86	<10	<1	0.02	<10	0.17	81	7	<0.01	87	80	>10000	4.16	151	1
01519		1.52	<10	<1	0.22	<10	0.62	237	3	<0.01	10	190	42	0.05	<2	2
01520		1.56	<10	<1	0.06	<10	0.01	10	2	<0.01	5	20	>10000	1.57	13	<1
01521		4.04	<10	<1	0.13	<10	0.41	383	30	0.23	97	790	40	3.12	3	4
01522		2.39	<10	<1	0.06	<10	0.07	39	10	<0.01	23	150	234	1.54	4	1
01523		2.68	<10	<1	0.58	<10	0.99	747	2	0.01	18	720	44	0.76	<2	2
01524		11.15	<10	<1	0.01	<10	0.02	32	<1	<0.01	198	10	4730	5.39	9	<1
01525		4.42	10	1	0.91	<10	1.30	488	<1	0.45	20	550	7	1.28	<2	7
01526		4.60	10	1	1.12	10	1.34	521	<1	0.24	16	2390	36	0.73	<2	9
01527		3.26	<10	<1	0.33	10	0.11	64	<1	<0.01	3	180	8	3.03	<2	1
01528		6.33	20	<1	1.84	<10	2.24	692	<1	0.25	12	3190	<2	1.12	<2	21
01529		3.37	10	<1	0.51	<10	0.73	412	<1	0.15	4	1500	4	0.03	<2	8
01530		3.91	10	1	1.35	<10	1.65	870	<1	0.08	88	370	83	1.11	<2	12
01531		5.39	<10	2	0.04	<10	0.54	715	27	0.06	89	630	>10000	5.66	26	6
01532		5.03	10	<1	0.22	10	1.33	715	2	0.03	18	1380	22	0.38	<2	4



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CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46
		Sr	Ti	Ti	U	V	W	Zn	Ag
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.01	10	10	1	10	2	1
01517		13	0.01	<10	10	32	<10	511	
01518		13	<0.01	<10	<10	10	<10	7230	312
01519		5	0.03	<10	<10	18	<10	38	
01520		2	0.01	<10	<10	5	<10	98	
01521		83	0.14	<10	<10	120	<10	502	
01522		3	0.02	<10	<10	19	<10	39	
01523		36	0.05	<10	<10	35	<10	85	
01524		2	<0.01	<10	<10	<1	<10	178	
01525		107	0.19	<10	<10	93	<10	98	
01526		104	0.21	<10	<10	107	<10	110	
01527		7	0.01	<10	<10	2	<10	8	
01528		120	0.38	<10	<10	110	<10	86	
01529		9	0.30	<10	<10	111	<10	51	
01530		83	0.17	<10	<10	88	30	61	
01531		321	<0.01	<10	10	36	10	>10000	
01532		75	0.08	<10	<10	50	<10	150	



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QC CERTIFICATE VA04051517

Project: Nugget Queen

P.O. No.:

This report is for 106 Soil samples submitted to our lab in Vancouver, BC, Canada on 4-AUG-2004.

The following have access to data associated with this certificate:

B. MOLAK

BOHUMIL MOLAK

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-41	Screen to -180um and save both
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

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

Signature: _____



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CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte Units LOR	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
BL 4+00 W		0.40	0.006	0.3	0.47	3	<10	50	<0.5	<2	0.05	<0.5	<1	12	5	0.75
L 4+00 W +20 S		0.32	0.131	0.5	0.82	4	<10	40	<0.5	<2	0.07	<0.5	1	8	6	1.62
L 4+00 W +40 S		0.32	0.011	0.4	2.88	<2	<10	30	0.7	<2	0.37	0.6	5	20	25	3.51
L 4+00 W +60 S		0.44	0.007	0.2	3.65	8	<10	30	<0.5	<2	0.13	<0.5	5	27	15	3.71
L 4+00 W +80 S		0.26	0.007	0.2	5.14	8	<10	30	0.5	<2	0.15	<0.5	4	36	46	3.27
L 4+00 W +100 S		0.20	0.007	0.3	2.40	2	<10	20	<0.5	<2	0.23	<0.5	10	25	20	1.88
L 4+20 W +20 N		0.32	<0.005	0.2	0.52	<2	<10	20	<0.5	<2	0.09	<0.5	1	18	4	1.22
L 4+20 W +40 N		0.26	<0.005	<0.2	3.57	<2	<10	10	<0.5	<2	0.14	<0.5	7	112	41	3.54
L 4+20 W +60 N		0.22	0.006	0.2	0.42	2	<10	10	<0.5	<2	0.10	<0.5	2	14	4	0.73
L 4+20 W +80 N		0.28	<0.005	<0.2	0.36	<2	<10	<10	<0.5	<2	0.09	<0.5	1	13	2	0.72
L 4+20 W +100 N		0.24	<0.005	<0.2	2.25	<2	<10	10	<0.5	<2	0.09	<0.5	2	34	26	1.00
BL 4+20 W		0.32	<0.005	<0.2	0.18	7	<10	10	<0.5	<2	0.01	<0.5	1	5	3	1.04
L 4+20 W +20 S		0.22	0.009	0.2	0.52	2	<10	20	<0.5	<2	0.05	<0.5	<1	6	3	0.32
L 4+20 W +40 S		0.22	0.006	0.3	1.06	<2	<10	20	<0.5	<2	0.11	<0.5	1	14	4	1.45
L 4+20 W +60 S		0.38	<0.005	0.4	5.24	8	<10	70	0.5	<2	0.12	<0.5	5	32	32	4.89
L 4+20 W +80 S		0.34	0.014	0.2	1.44	5	<10	50	<0.5	<2	0.05	<0.5	3	19	14	4.38
L 4+20 W +100 S		0.36	0.048	<0.2	2.02	4	<10	20	<0.5	<2	0.28	<0.5	12	72	18	5.21
L 4+40 W +20 N		0.26	<0.005	0.3	2.73	8	<10	30	<0.5	<2	0.05	<0.5	2	37	11	5.93
L 4+40 W +40 N		0.32	0.007	0.6	5.78	6	<10	10	<0.5	<2	0.07	<0.5	3	49	21	4.09
L 4+40 W +60 N		0.28	<0.005	<0.2	6.23	8	<10	20	<0.5	<2	0.13	<0.5	11	122	52	4.28
L 4+40 W +80 N		0.42	<0.005	<0.2	0.71	<2	<10	10	<0.5	<2	0.07	<0.5	3	26	12	1.09
L 4+40 W +100 N		0.36	<0.005	<0.2	1.12	<2	<10	10	<0.5	<2	0.11	<0.5	2	27	6	1.64
BL 4+40 W		0.28	<0.005	<0.2	0.50	13	<10	10	<0.5	<2	0.04	<0.5	<1	8	4	1.39
L 4+40 W +20 S		0.34	0.240	0.6	0.56	3	<10	20	<0.5	<2	0.03	<0.5	<1	8	2	0.19
L 4+40 W +40 S		0.24	<0.005	0.2	2.96	6	<10	40	<0.5	<2	0.08	<0.5	2	40	16	1.97
L 4+40 W +60 S		0.22	0.005	0.4	8.06	13	<10	40	0.6	<2	0.09	0.6	5	54	28	5.30
L 4+40 W +80 S		0.24	<0.005	1.3	6.95	11	<10	70	<0.5	3	0.10	<0.5	6	45	29	5.38
L 4+40 W +100 S		0.42	0.027	0.9	4.75	3	<10	50	1.0	3	0.26	0.9	460	87	68	5.09
L 4+60 W +20 N		0.28	<0.005	0.2	3.35	16	<10	40	<0.5	2	0.06	<0.5	6	40	11	5.65
L 4+60 W +40 N		0.32	<0.005	0.5	1.74	<2	<10	10	<0.5	3	0.11	<0.5	2	27	8	0.70
L 4+60 W +60 N		0.30	<0.005	0.6	4.28	12	<10	10	<0.5	2	0.11	<0.5	16	135	36	7.15
L 4+60 W +80 N		0.20	<0.005	0.2	0.54	<2	<10	<10	<0.5	2	0.06	<0.5	4	25	10	3.75
L 4+60 W +100 N		0.48	<0.005	<0.2	0.45	<2	<10	10	<0.5	<2	0.20	<0.5	5	22	3	0.59
BL 4+60 W		0.24	0.012	0.3	1.92	38	<10	40	<0.5	<2	0.04	<0.5	3	14	37	6.13
L 4+60 W +20 S		0.26	0.005	<0.2	6.83	12	<10	20	<0.5	<2	0.06	<0.5	4	72	25	8.36
L 4+60 W +40 S		0.24	0.006	<0.2	1.08	<2	<10	20	<0.5	<2	0.10	<0.5	1	11	4	2.04
L 4+60 W +60 S		0.30	<0.005	0.2	3.23	4	<10	230	<0.5	<2	0.17	<0.5	4	21	23	4.66
L 4+60 W +80 S		0.26	<0.005	<0.2	2.76	5	<10	90	<0.5	<2	0.16	<0.5	4	24	19	6.01
L 4+60 W +100 S		0.34	0.017	0.2	4.12	2	<10	40	<0.5	<2	0.10	<0.5	5	36	17	4.78
L 4+60 W +120 S		0.34	0.207	0.3	2.94	13	<10	40	<0.5	<2	0.14	<0.5	6	47	21	5.47



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CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Units
	LOR	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
BL 4+80 W		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	
L 4+80 W +20 S		0.42	<0.005	<0.2	0.59	2	<10	10	<0.5	<2	0.07	<0.5	2	22	2	0.89	
L 4+80 W +40 S		0.20	<0.005	0.2	0.68	6	<10	30	<0.5	<2	0.19	<0.5	2	7	7	1.15	
L 4+80 W +60 S		0.18	0.009	0.2	1.18	4	<10	40	<0.5	<2	0.39	<0.5	5	16	15	3.28	
L 4+80 W +80 S		0.28	<0.005	<0.2	1.93	<2	<10	40	<0.5	<2	0.23	<0.5	7	12	12	5.18	
L 4+80 W +100 S		0.26	<0.005	<0.2	7.79	9	<10	100	1.1	<2	0.15	<0.5	4	26	30	2.73	
L 4+80 W +120 S		0.24	<0.005	0.2	3.43	10	<10	70	<0.5	<2	0.22	<0.5	8	35	20	4.87	
L 4+80 W +20 N		0.28	0.006	0.5	2.17	<2	<10	50	<0.5	<2	0.12	<0.5	5	41	13	4.25	
L 4+80 W +40 N		0.24	<0.005	0.2	3.56	21	<10	70	<0.5	<2	0.07	<0.5	3	47	25	5.98	
L 4+80 W +60 N		0.38	<0.005	0.4	0.84	3	<10	10	<0.5	<2	0.15	<0.5	1	20	5	1.53	
L 4+80 W +80 N		0.28	<0.005	<0.2	2.40	9	<10	30	<0.5	<2	0.11	<0.5	16	120	14	4.33	
L 4+80 W +100 N		0.44	<0.005	<0.2	1.10	<2	<10	<10	<0.5	<2	0.07	<0.5	2	31	16	5.39	
L 4+80 W +120 N		0.52	<0.005	<0.2	1.11	4	<10	10	<0.5	<2	0.26	<0.5	8	39	4	2.05	
L 5+00 W +20 N		0.38	<0.005	0.3	7.36	<2	<10	10	<0.5	<2	0.10	<0.5	3	66	17	4.00	
L 5+00 W +40 N		0.32	<0.005	0.4	4.73	15	<10	70	<0.5	<2	0.16	0.5	11	111	53	6.71	
L 5+00 W +60 N		0.40	<0.005	0.2	3.87	<2	<10	10	<0.5	<2	0.16	<0.5	4	44	23	1.74	
L 5+00 W +80 N		0.32	<0.005	<0.2	5.36	3	<10	10	<0.5	<2	0.16	<0.5	4	54	34	2.90	
L 5+00 W +100 N		0.36	<0.005	<0.2	4.58	<2	<10	20	0.5	<2	0.23	<0.5	7	67	69	2.84	
BL 5+00 W		0.38	<0.005	<0.2	3.64	2	<10	10	<0.5	<2	0.08	<0.5	3	54	9	4.79	
L 5+00 W +20 S		0.20	0.035	<0.2	5.22	17	<10	40	<0.5	<2	0.08	<0.5	4	73	20	7.11	
L 5+00 W +40 S		0.30	<0.005	0.2	4.34	<2	<10	20	<0.5	<2	0.13	<0.5	5	39	31	3.82	
L 5+00 W +60 S		0.28	<0.005	0.4	4.51	5	<10	80	<0.5	<2	0.13	<0.5	4	33	26	5.47	
L 5+20 W +20 N		0.18	<0.005	0.2	0.30	<2	<10	30	<0.5	<2	0.03	<0.5	<1	8	4	2.90	
L 5+20 W +40 N		0.24	<0.005	0.2	3.88	11	<10	60	<0.5	<2	0.21	<0.5	14	43	37	6.02	
L 5+20 W +60 N		0.50	<0.005	<0.2	3.71	2	<10	10	<0.5	<2	0.18	<0.5	5	82	21	5.24	
L 5+20 W +80 N		0.30	<0.005	<0.2	0.44	<2	<10	<10	<0.5	<2	0.10	<0.5	4	19	1	0.86	
L 5+20 W +100 N		0.20	<0.005	<0.2	1.35	8	<10	10	<0.5	<2	0.15	<0.5	30	29	13	7.15	
BL 5+20 W		0.14	<0.005	<0.2	0.64	<2	<10	10	<0.5	<2	0.08	<0.5	1	27	12	4.31	
L 5+20 W +20 S		0.44	0.011	<0.2	1.98	12	<10	30	<0.5	<2	0.07	<0.5	5	57	12	6.15	
L 5+20 W +40 S		0.32	0.087	0.3	3.58	12	<10	40	<0.5	<2	0.10	0.7	5	38	25	6.51	
L 5+20 W +60 S		0.28	0.006	0.2	8.51	9	<10	60	0.8	<2	0.09	<0.5	4	40	38	6.00	
L 5+40 W +20 N		0.30	<0.005	<0.2	0.25	<2	<10	10	<0.5	<2	0.11	<0.5	1	5	2	0.53	
L 5+40 W +40 N		0.50	0.007	<0.2	1.50	4	<10	20	<0.5	<2	0.08	<0.5	5	26	12	3.30	
L 5+40 W +60 N		0.26	<0.005	<0.2	1.01	<2	<10	20	<0.5	<2	0.19	<0.5	6	30	9	1.87	
L 5+40 W +80 N		0.18	<0.005	<0.2	0.09	<2	<10	10	<0.5	<2	0.24	<0.5	1	<1	4	0.09	
L 5+40 W +100 N		0.32	<0.005	<0.2	2.79	<2	<10	<10	<0.5	<2	0.16	0.5	9	74	31	10.10	
BL 5+40 W		0.36	<0.005	<0.2	2.27	19	<10	30	<0.5	<2	0.07	<0.5	5	62	10	7.44	
L 5+40 W +20 S		0.36	<0.005	0.2	2.78	3	<10	60	<0.5	<2	0.13	<0.5	5	42	33	6.02	
L 5+40 W +40 S		0.22	0.028	<0.2	4.66	22	<10	50	<0.5	<2	0.09	<0.5	6	30	35	6.35	
L 5+40 W +60 S		0.36	<0.005	<0.2	5.05	5	<10	60	<0.5	<2	0.11	<0.5	4	33	24	5.73	
BL 5+60 W		0.26	<0.005	<0.2	2.89	17	<10	40	<0.5	<2	0.29	<0.5	25	61	20	9.31	



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CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
L 5+60 W +20 N		0.30	<0.005	<0.2	1.69	8	<10	20	<0.5	<2	0.14	<0.5	4	21	13	3.28
L 5+60 W +40 N		0.28	<0.005	0.2	0.84	4	<10	40	<0.5	<2	0.13	<0.5	2	12	3	1.04
L 5+60 W +60 N		0.38	<0.005	<0.2	1.96	<2	<10	20	<0.5	<2	0.29	<0.5	6	33	28	2.14
L 5+60 W +80 N		0.32	<0.005	<0.2	4.73	5	<10	10	0.5	<2	0.14	<0.5	15	99	42	8.29
L 5+60 W +100 N		0.34	<0.005	<0.2	3.01	5	<10	30	<0.5	<2	0.19	<0.5	16	49	44	6.35
L 5+60 W +20 S		0.34	<0.005	<0.2	2.45	5	<10	40	<0.5	<2	0.07	<0.5	4	34	20	6.27
L 5+60 W +40 S		0.40	<0.005	<0.2	2.08	2	<10	10	<0.5	<2	0.06	<0.5	2	32	9	4.62
L 5+60 W +60 S		0.24	0.005	0.3	3.99	8	<10	40	<0.5	<2	0.12	0.5	4	28	20	3.88
L 5+80 W +20 N		0.32	<0.005	<0.2	1.97	<2	<10	80	<0.5	<2	0.16	<0.5	9	34	8	2.97
L 5+80 W +40 N		0.26	<0.005	0.2	3.96	5	<10	90	<0.5	<2	0.23	0.6	4	38	28	4.06
L 5+80 W +60 N		0.32	<0.005	<0.2	1.08	<2	<10	40	<0.5	<2	0.27	<0.5	4	16	18	1.86
L 5+80 W +80 N		0.40	<0.005	<0.2	3.37	<2	<10	10	<0.5	<2	0.16	<0.5	33	55	62	5.61
L 5+80 W +100 N		0.40	<0.005	<0.2	1.94	7	<10	20	<0.5	<2	0.26	<0.5	9	50	38	6.20
BL 5+80 W		0.28	0.012	<0.2	4.32	19	<10	70	<0.5	2	0.12	0.5	22	72	26	5.01
L 5+80 W +20 S		0.26	<0.005	<0.2	4.16	7	<10	20	<0.5	<2	0.11	0.5	5	37	24	4.59
L 5+80 W +40 S		0.22	<0.005	0.3	1.16	17	<10	550	<0.5	<2	0.16	<0.5	4	10	19	3.58
L 5+80 W +60 S		0.22	0.008	0.6	8.07	6	<10	220	0.9	<2	0.30	0.9	18	37	69	4.96
L 6+00 W +20 N		0.24	<0.005	0.2	2.51	4	<10	90	<0.5	<2	0.13	0.7	136	54	52	10.40
L 6+00 W +40 N		0.26	<0.005	0.2	1.40	8	<10	110	<0.5	<2	0.19	<0.5	2	20	17	3.18
L 6+00 W +60 N		0.18	<0.005	<0.2	0.07	<2	<10	10	<0.5	<2	0.20	<0.5	2	<1	3	0.11
L 6+00 W +80 N		0.32	<0.005	<0.2	4.68	2	<10	40	<0.5	<2	0.21	<0.5	18	139	101	3.87
L 6+00 W +100 N		0.40	<0.005	<0.2	1.46	<2	<10	10	<0.5	<2	0.21	<0.5	6	45	15	4.52
BL 6+00 W		0.46	<0.005	<0.2	5.09	26	<10	30	<0.5	<2	0.06	0.5	8	93	28	6.35
L 6+00 W +20 S		0.38	<0.005	<0.2	5.09	2	<10	10	<0.5	<2	0.08	<0.5	3	48	16	4.39
L 6+00 W +40 S		0.26	<0.005	<0.2	0.63	3	<10	40	<0.5	<2	0.13	<0.5	2	14	6	4.50
L 6+00 W +60 S		0.40	<0.005	0.3	3.43	5	<10	30	<0.5	<2	0.08	<0.5	2	37	14	4.85



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
BL 4+00 W		10	1	0.02	<10	0.25	62	17	<0.01	2	80	5	0.02	3	1	4
L 4+00 W +20 S		10	1	0.05	<10	0.25	98	1	0.01	2	120	11	0.02	2	2	7
L 4+00 W +40 S		20	1	0.02	10	0.49	311	4	0.01	6	300	16	0.08	3	4	13
L 4+00 W +60 S		20	2	0.02	10	0.31	140	16	<0.01	6	270	18	0.05	2	3	9
L 4+00 W +80 S		10	1	0.02	10	0.22	118	2	0.01	12	430	6	0.05	2	4	8
L 4+00 W +100 S		10	1	0.02	<10	0.29	173	2	0.02	9	550	7	0.10	<2	1	13
L 4+20 W +20 N		10	1	0.02	<10	0.27	86	1	<0.01	4	110	5	0.01	3	1	2
L 4+20 W +40 N		10	1	0.02	<10	0.97	206	1	0.01	25	120	3	0.03	3	5	3
L 4+20 W +60 N		10	1	0.01	<10	0.17	60	<1	0.01	6	90	6	0.01	<2	1	4
L 4+20 W +80 N		10	1	0.01	<10	0.17	64	<1	<0.01	5	50	4	<0.01	<2	<1	4
L 4+20 W +100 N		10	<1	0.01	10	0.11	50	<1	<0.01	4	350	8	0.03	<2	2	5
BL 4+20 W		10	1	0.01	<10	0.02	13	17	<0.01	2	60	3	0.01	3	1	2
L 4+20 W +20 S		10	1	0.03	<10	0.06	23	2	<0.01	<1	120	14	0.02	2	1	8
L 4+20 W +40 S		10	<1	0.03	<10	0.56	189	1	<0.01	2	240	9	0.03	<2	2	12
L 4+20 W +60 S		10	1	0.04	10	0.52	245	2	0.01	5	250	6	0.04	<2	7	12
L 4+20 W +80 S		20	<1	0.04	<10	0.23	134	4	<0.01	7	140	8	0.02	<2	2	6
L 4+20 W +100 S		10	1	0.03	<10	0.61	359	1	0.02	20	110	7	0.02	<2	5	11
L 4+40 W +20 N		20	1	0.02	<10	0.20	77	10	<0.01	4	210	7	0.04	2	3	4
L 4+40 W +40 N		10	1	0.01	<10	0.24	66	3	0.01	8	190	10	0.05	2	5	3
L 4+40 W +60 N		10	1	0.02	<10	1.06	236	1	0.02	31	220	3	0.06	3	9	5
L 4+40 W +80 N		10	<1	0.01	<10	0.53	134	<1	<0.01	8	120	6	0.01	2	2	3
L 4+40 W +100 N		20	1	0.04	<10	0.27	105	<1	0.01	4	130	7	0.02	2	2	4
BL 4+40 W		20	<1	0.01	<10	0.08	29	34	<0.01	2	100	11	0.02	6	1	4
L 4+40 W +20 S		20	1	0.02	<10	0.04	18	6	<0.01	1	120	41	0.04	<2	<1	3
L 4+40 W +40 S		10	1	0.03	10	0.38	124	1	<0.01	5	260	10	0.06	3	6	6
L 4+40 W +60 S		10	3	0.01	<10	0.22	130	2	<0.01	7	320	7	0.12	4	9	6
L 4+40 W +80 S		10	2	0.02	<10	0.37	231	2	<0.01	13	310	4	0.07	3	6	8
L 4+40 W +100 S		10	1	0.02	10	0.42	5570	6	0.01	42	380	31	0.05	<2	8	10
L 4+60 W +20 N		10	1	0.01	<10	0.18	130	10	<0.01	12	180	7	0.05	2	5	3
L 4+60 W +40 N		10	1	0.01	<10	0.11	52	1	<0.01	5	170	10	0.02	<2	2	5
L 4+60 W +60 N		10	1	0.01	<10	0.68	299	3	<0.01	31	220	6	0.04	3	7	3
L 4+60 W +80 N		10	1	0.01	<10	0.17	70	1	<0.01	7	60	6	<0.01	2	1	1
L 4+60 W +100 N		10	<1	0.01	<10	0.13	79	<1	0.01	2	60	8	<0.01	2	2	8
BL 4+60 W		10	<1	0.09	<10	0.45	154	20	<0.01	8	230	19	0.02	<2	6	6
L 4+60 W +20 S		20	2	0.02	<10	0.36	124	4	<0.01	8	270	15	0.07	<2	7	4
L 4+60 W +40 S		20	<1	0.01	<10	0.10	53	3	<0.01	<1	100	13	0.02	<2	1	6
L 4+60 W +60 S		10	<1	0.04	10	0.53	314	4	0.02	3	170	8	0.03	<2	6	14
L 4+60 W +80 S		10	<1	0.04	<10	0.46	190	4	<0.01	9	250	12	0.03	<2	4	13
L 4+60 W +100 S		10	<1	0.02	<10	0.35	132	2	<0.01	8	200	9	0.04	<2	5	8
L 4+60 W +120 S		10	<1	0.03	<10	0.37	145	2	<0.01	11	200	13	0.03	<2	4	7



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Se	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
BL 4+80 W		10	1	0.01	<10	0.28	84	2	<0.01	5	100	7	0.03	2	1	6
L 4+80 W +20 S		<10	<1	0.03	<10	0.16	87	1	<0.01	2	270	4	0.07	<2	1	25
L 4+80 W +40 S		10	<1	0.04	<10	0.34	257	1	0.02	4	510	8	0.08	<2	2	20
L 4+80 W +60 S		10	<1	0.05	<10	0.54	244	1	0.01	3	290	6	0.04	<2	3	17
L 4+80 W +80 S		10	1	0.03	10	0.31	174	2	<0.01	9	460	10	0.08	<2	6	14
L 4+80 W +100 S		10	<1	0.03	<10	0.42	226	3	<0.01	14	300	14	0.04	<2	5	13
L 4+80 W +120 S		10	<1	0.01	<10	0.12	100	2	<0.01	6	160	7	0.02	<2	2	7
L 4+80 W +20 N		10	<1	0.02	<10	0.28	102	21	<0.01	21	170	13	0.03	<2	4	23
L 4+80 W +40 N		10	1	0.01	<10	0.17	61	3	<0.01	4	120	16	0.01	2	2	5
L 4+80 W +60 N		10	1	0.07	<10	2.29	378	<1	<0.01	79	80	6	<0.01	<2	5	4
L 4+80 W +80 N		20	<1	0.01	<10	0.15	84	1	<0.01	2	90	6	0.04	3	2	1
L 4+80 W +100 N		20	<1	0.01	<10	0.74	166	1	0.01	15	80	6	0.02	<2	3	3
L 5+00 W +20 N		10	1	0.01	<10	0.15	65	3	<0.01	6	180	10	0.09	<2	11	5
L 5+00 W +40 N		10	1	0.02	<10	0.81	346	5	<0.01	29	200	11	0.05	<2	6	8
L 5+00 W +60 N		10	1	0.01	<10	0.25	95	1	0.01	12	230	10	0.04	<2	4	6
L 5+00 W +80 N		10	<1	0.01	10	0.20	80	<1	0.01	11	290	3	0.05	<2	8	7
L 5+00 W +100 N		10	1	0.02	10	0.40	154	1	0.01	18	510	5	0.10	<2	5	8
BL 5+00 W		10	1	0.01	<10	0.14	63	2	<0.01	5	160	12	0.04	<2	5	3
L 5+00 W +20 S		20	2	0.02	<10	0.43	152	2	<0.01	9	210	27	0.06	<2	7	12
L 5+00 W +40 S		10	1	0.02	<10	0.52	148	1	0.01	8	120	10	0.03	<2	9	7
L 5+00 W +60 S		10	1	0.03	<10	0.48	226	2	<0.01	9	340	12	0.05	<2	5	18
L 5+20 W +20 N		<10	1	0.02	<10	0.21	56	4	<0.01	<1	310	7	0.03	2	2	5
L 5+20 W +40 N		10	<1	0.04	<10	0.55	412	2	0.01	16	380	11	0.08	<2	5	24
L 5+20 W +60 N		20	1	0.01	<10	0.37	149	2	<0.01	13	260	8	0.03	<2	4	5
L 5+20 W +80 N		10	<1	0.01	<10	0.30	81	<1	<0.01	13	50	7	<0.01	<2	1	2
L 5+20 W +100 N		10	<1	0.02	<10	0.20	1070	1	<0.01	8	540	9	0.09	<2	2	6
BL 5+20 W		20	<1	0.01	<10	0.06	57	4	<0.01	<1	80	12	0.02	<2	1	3
L 5+20 W +20 S		20	<1	0.04	<10	1.16	298	6	<0.01	13	150	10	0.02	<2	6	8
L 5+20 W +40 S		10	1	0.05	10	0.61	294	3	<0.01	9	340	13	0.06	<2	6	14
L 5+20 W +60 S		10	<1	0.03	<10	0.40	174	3	<0.01	7	280	13	0.10	<2	9	14
L 5+40 W +20 N		<10	<1	0.01	<10	0.04	22	2	<0.01	<1	80	2	0.01	<2	<1	7
L 5+40 W +40 N		10	<1	0.01	<10	0.12	114	10	<0.01	10	130	6	0.01	<2	1	6
L 5+40 W +60 N		10	<1	0.01	<10	0.34	381	1	<0.01	10	150	5	0.02	3	1	5
L 5+40 W +80 N		<10	<1	0.02	<10	0.08	23	<1	<0.01	<1	260	2	0.07	<2	<1	14
L 5+40 W +100 N		20	1	0.02	<10	0.53	258	1	0.01	13	190	8	0.03	<2	3	3
BL 5+40 W		20	<1	0.01	<10	0.88	215	8	<0.01	13	170	12	0.03	<2	5	15
L 5+40 W +20 S		10	1	0.14	<10	0.71	297	3	0.01	9	200	18	0.04	<2	7	9
L 5+40 W +40 S		10	1	0.04	<10	0.55	241	3	<0.01	7	190	14	0.05	<2	6	14
L 5+40 W +60 S		10	<1	0.08	<10	0.66	240	2	0.01	5	220	10	0.05	<2	7	11
BL 5+60 W		20	<1	0.03	<10	0.78	944	10	<0.01	16	280	16	0.05	<2	3	13



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		10	1	0.01	<10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L 5+60 W +20 N		10	1	0.02	<10	0.20	160	9	<0.01	7	200	8	0.06	<2	2	9
L 5+60 W +40 N		10	<1	0.01	<10	0.15	95	7	<0.01	3	90	10	0.03	3	1	8
L 5+60 W +60 N		<10	<1	0.02	<10	0.21	93	<1	0.02	10	340	2	0.03	<2	2	14
L 5+60 W +80 N		10	1	0.02	<10	0.51	239	1	<0.01	19	190	5	0.06	<2	7	2
L 5+60 W +100 N		10	<1	0.42	<10	1.05	435	<1	0.01	21	340	7	0.05	<2	4	5
L 5+60 W +20 S		10	<1	0.05	<10	0.71	334	3	<0.01	4	150	12	0.03	<2	6	8
L 5+60 W +40 S		20	<1	0.01	<10	0.11	64	2	<0.01	3	110	12	0.03	<2	2	4
L 5+60 W +60 S		10	1	0.03	<10	0.25	498	2	<0.01	6	390	40	0.06	<2	4	7
L 5+80 W +20 N		10	<1	0.07	<10	0.71	522	3	<0.01	10	220	13	0.02	<2	4	17
L 5+80 W +40 N		10	1	0.02	<10	0.60	296	8	<0.01	12	180	8	0.03	<2	7	23
L 5+80 W +60 N		10	1	0.06	<10	0.31	184	<1	<0.01	6	260	7	0.05	<2	2	10
L 5+80 W +80 N		10	<1	0.04	<10	0.54	514	1	<0.01	17	210	7	0.04	<2	5	2
L 5+80 W +100 N		10	<1	0.04	<10	0.60	210	1	0.01	14	200	6	0.03	<2	3	5
BL 5+80 W		10	1	0.06	<10	0.73	615	3	<0.01	16	240	12	0.05	<2	7	14
L 5+80 W +20 S		10	1	0.02	<10	0.25	153	2	<0.01	12	210	10	0.04	2	5	6
L 5+80 W +40 S		10	<1	0.04	<10	0.30	164	15	<0.01	9	280	7	0.07	<2	2	19
L 5+80 W +60 S		10	1	0.07	<10	1.64	470	2	0.04	33	210	89	0.05	<2	14	40
L 6+00 W +20 N		10	2	0.02	<10	0.43	3840	4	<0.01	18	350	14	0.05	<2	5	11
L 6+00 W +40 N		10	<1	0.02	<10	0.29	117	12	0.02	9	200	9	0.04	2	2	25
L 6+00 W +60 N		<10	<1	0.01	<10	0.05	58	<1	<0.01	<1	100	<2	0.02	<2	<1	9
L 6+00 W +80 N		10	<1	0.06	<10	1.42	296	1	0.01	61	180	7	0.03	<2	6	5
L 6+00 W +100 N		10	<1	0.01	<10	0.42	131	<1	0.01	13	120	4	0.02	<2	2	3
BL 6+00 W		10	<1	0.02	<10	0.70	205	4	<0.01	16	180	15	0.04	<2	9	6
L 6+00 W +20 S		10	1	0.01	<10	0.16	79	1	<0.01	7	200	6	0.05	<2	5	4
L 6+00 W +40 S		20	<1	0.01	<10	0.08	87	3	<0.01	1	130	10	0.01	<2	1	6
L 6+00 W +60 S		10	<1	0.01	<10	0.13	80	4	<0.01	5	160	12	0.03	<2	3	5



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CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI %	TI ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
BL 4+00 W		0.17	<10	<10	62	<10	8
L 4+00 W +20 S		0.16	<10	<10	79	<10	12
L 4+00 W +40 S		0.15	<10	<10	116	<10	101
L 4+00 W +60 S		0.27	<10	<10	155	<10	78
L 4+00 W +80 S		0.16	<10	<10	104	<10	71
L 4+00 W +100 S		0.09	<10	<10	90	<10	26
L4 +20 W +20 N		0.39	<10	<10	109	<10	10
L4 +20 W +40 N		0.46	<10	<10	138	<10	25
L4 +20 W +60 N		0.24	<10	<10	77	<10	8
L4 +20 W +80 N		0.21	<10	<10	88	<10	5
L4 +20 W +100 N		0.18	<10	<10	55	<10	19
BL 4+20 W		0.18	<10	<10	203	<10	9
L 4+20 W +20 S		0.21	<10	<10	42	<10	5
L 4+20 W +40 S		0.14	<10	<10	62	<10	31
L 4+20 W +60 S		0.30	<10	<10	154	<10	38
L 4+20 W +80 S		0.33	<10	<10	250	<10	32
L 4+20 W +100 S		0.29	<10	<10	161	<10	30
L4 +40 W +20 N		0.32	<10	<10	215	<10	28
L4 +40 W +40 N		0.18	<10	<10	129	<10	86
L4 +40 W +60 N		0.34	<10	<10	114	<10	44
L4 +40 W +80 N		0.32	<10	<10	77	<10	13
L4 +40 W +100 N		0.38	<10	<10	163	<10	14
BL 4+40 W		0.37	<10	<10	243	<10	17
L 4+40 W +20 S		0.20	<10	<10	38	<10	5
L 4+40 W +40 S		0.22	<10	<10	98	<10	24
L 4+40 W +60 S		0.23	<10	<10	133	<10	25
L 4+40 W +80 S		0.20	<10	<10	123	<10	33
L 4+40 W +100 S		0.29	<10	<10	136	<10	110
L4 +60W +20 N		0.29	<10	<10	240	<10	69
L4 +60 W +40 N		0.19	<10	<10	72	<10	8
L4 +60 W +60 N		0.51	<10	<10	184	<10	33
L4 +60 W +80 N		0.54	<10	<10	176	<10	11
L4 +60 W +100 N		0.40	<10	<10	110	<10	7
BL 4+60 W		0.25	<10	<10	210	<10	57
L 4+60 W +20 S		0.35	<10	<10	220	<10	34
L 4+60 W +40 S		0.37	<10	<10	142	<10	10
L 4+60 W +60 S		0.33	<10	<10	168	<10	40
L 4+60 W +80 S		0.33	<10	<10	197	<10	44
L 4+60 W +100 S		0.23	<10	<10	160	<10	40
L 4+60 W +120 S		0.29	<10	<10	192	<10	30



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI	TI	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
BL 4+80 W		0.14	<10	<10	63	<10	10
L 4+80 W +20 S		0.06	<10	<10	40	<10	17
L 4+80 W +40 S		0.11	<10	<10	96	<10	27
L 4+80 W +60 S		0.22	<10	<10	126	<10	33
L 4+80 W +80 S		0.13	<10	<10	61	<10	31
L 4+80 W +100 S		0.31	<10	<10	142	<10	56
L 4+80 W +120 S		0.25	<10	<10	189	<10	21
L 4+80 W +20 N		0.43	10	<10	379	<10	205
L 4+80 W +40 N		0.23	<10	<10	111	<10	17
L 4+80 W +60 N		0.30	<10	<10	134	<10	32
L 4+80 W +80 N		0.61	<10	<10	162	<10	12
L 4+80 W +100 N		0.46	<10	<10	139	<10	24
L5 +00 W +20 N		0.20	<10	<10	115	<10	24
L5 +00 W +40 N		0.44	<10	<10	216	<10	118
L5 +00 W +60 N		0.24	<10	<10	80	<10	23
L5 +00 W +80 N		0.14	<10	<10	97	<10	10
L5 +00 W +100 N		0.16	<10	<10	116	<10	26
BL 5+00 W		0.25	<10	<10	176	<10	14
L 5+00 W +20 S		0.26	<10	<10	203	<10	32
L 5+00 W +40 S		0.21	<10	<10	142	<10	49
L 5+00 W +60 S		0.22	<10	<10	134	<10	35
L5 +20 W +20 N		0.13	<10	<10	96	<10	8
L5 +20 W +40 N		0.20	<10	<10	134	<10	35
L5 +20 W +60 N		0.39	<10	<10	217	<10	32
L5 +20 W +80 N		0.25	<10	<10	78	<10	6
L5 +20 W +100 N		0.09	<10	<10	136	<10	13
BL 5+20 W		0.34	<10	<10	239	<10	16
L 5+20 W +20 S		0.42	<10	<10	296	<10	67
L 5+20 W +40 S		0.19	<10	<10	160	<10	53
L 5+20 W +60 S		0.20	10	<10	130	<10	48
L5 +40 W +20 N		0.08	<10	<10	50	<10	9
L5 +40 W +40 N		0.27	<10	<10	192	<10	57
L5 +40 W +60 N		0.25	<10	<10	93	<10	15
L5 +40 W +80 N		0.01	<10	<10	2	<10	14
L5 +40 W +100 N		0.43	<10	<10	244	<10	26
BL 5+40 W		0.36	<10	<10	263	<10	54
L 5+40 W +20 S		0.33	<10	<10	229	<10	60
L 5+40 W +40 S		0.21	<10	<10	152	<10	44
L 5+40 W +60 S		0.25	10	<10	164	<10	50
BL 5+60 W		0.28	10	<10	232	<10	99



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI %	TI ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
L 5+60 W +20 N		0.17	10	<10	131	<10	36
L 5+60 W +40 N		0.22	<10	<10	66	<10	24
L 5+60 W +60 N		0.07	<10	<10	121	<10	12
L 5+60 W +80 N		0.45	<10	<10	157	<10	27
L 5+60 W +100 N		0.36	<10	<10	134	<10	57
L 5+60 W +20 S		0.39	<10	<10	223	<10	43
L 5+60 W +40 S		0.29	<10	<10	250	<10	13
L 5+60 W +60 S		0.17	<10	<10	116	<10	42
L 5+80 W +20 N		0.23	<10	<10	106	<10	60
L 5+80 W +40 N		0.29	<10	<10	221	<10	225
L 5+80 W +60 N		0.17	<10	<10	71	<10	21
L 5+80 W +80 N		0.39	<10	<10	130	<10	31
L 5+80 W +100 N		0.39	<10	<10	185	<10	27
BL 5+80 W		0.25	<10	<10	146	<10	72
L 5+80 W +20 S		0.23	<10	<10	156	<10	52
L 5+80 W +40 S		0.19	<10	<10	140	<10	87
L 5+80 W +60 S		0.26	10	<10	142	<10	309
L 6+00 W +20 N		0.28	<10	<10	192	<10	82
L 6+00 W +40 N		0.21	<10	<10	192	<10	76
L 6+00 W +60 N		0.01	<10	<10	4	<10	6
L 6+00 W +80 N		0.39	<10	<10	104	<10	46
L 6+00 W +100 N		0.47	<10	<10	204	<10	14
BL 6+00 W		0.42	<10	<10	236	<10	59
L 6+00 W +20 S		0.24	<10	<10	147	<10	19
L 6+00 W +40 S		0.41	<10	<10	232	<10	12
L 6+00 W +60 S		0.25	<10	<10	158	<10	26



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
STANDARDS																
BPL-04			47.5													
Target Range - Lower Bound			43.8													
Upper Bound			50.6													
CU-106																
Target Range - Lower Bound																
Upper Bound																
G2000				3.5	1.84	476	10	880	1.0	<2	0.50	7.6	25	70	311	3.72
G2000				3.5	1.87	464	<10	850	0.9	<2	0.50	7.4	24	66	303	3.79
Target Range - Lower Bound				2.9	1.86	434	<10	740	<0.5	<2	0.46	6.3	22	64	272	3.41
Upper Bound				3.9	2.08	534	20	920	1.0	4	0.58	8.9	29	80	334	4.19
JWB-JV-1				22.0	0.64	519	<10	150	<0.5	10	0.37	48.4	10	51	7850	3.24
JWB-JV-1																
JWB-JV-1				23.1	0.64	502	<10	360	<0.5	<2	0.37	48.2	9	47	7720	3.16
Target Range - Lower Bound				19.8	0.58	461	<10	190	<0.5	3	0.36	40.0	8	44	7090	2.89
Upper Bound				24.4	0.73	567	20	190	1.0	9	0.46	50.0	12	56	8870	3.55
MER-03		0.662														
MER-03		0.681														
Target Range - Lower Bound		0.626														
Upper Bound		0.730														
OXK18		3.58														
OXK18		3.50														
Target Range - Lower Bound		3.22														
Upper Bound		3.71														
OXM16			15.25													
Target Range - Lower Bound			14.05													
Upper Bound			16.26													
BLANKS																
BLANK		<0.005														
BLANK			<0.05	<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
BLANK																
BLANK				<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
BLANK		<0.005														
Target Range - Lower Bound		<0.005	<0.05	<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01
Upper Bound		0.010	0.10	0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Units		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
LOR		0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DUPLICATES																
ORIGINAL		0.437														
DUP		0.443														
Target Range - Lower Bound		0.408														
Upper Bound		0.472														
ORIGINAL		0.910														
DUP		1.220														
Target Range - Lower Bound		1.000														
Upper Bound		1.130														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.009														
DUP		0.008														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		0.007														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
01520			12.15													
DUP			14.40													
Target Range - Lower Bound			12.50													
Upper Bound			14.05													
01525				0.7	5.37	8	<10	170	0.5	<2	2.30	<0.5	16	48	62	4.42
DUP				0.4	5.07	6	<10	160	<0.5	<2	2.24	<0.5	15	46	59	4.28
Target Range - Lower Bound				<0.2	4.94	3	<10	140	<0.5	<2	2.14	<0.5	13	43	55	4.11
Upper Bound				1.0	5.50	11	20	190	1.0	4	2.40	1.0	18	51	66	4.59



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Sample Description	Method Analyte Units LOR	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.005	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DUPLICATES																
01532				0.6	2.61	22	<10	60	<0.5	<2	2.29	1.4	16	25	70	5.03
DUP				0.6	2.62	24	<10	60	<0.5	<2	2.29	1.4	16	25	67	5.02
Target Range - Lower Bound				<0.2	2.46	18	<10	40	<0.5	<2	2.16	<0.5	13	22	62	4.75
Upper Bound				1.0	2.77	28	20	80	1.0	4	2.42	2.5	19	28	74	5.30



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Method Analyte Units LOR	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41		
	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	NI ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	
Sample Description	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	
STANDARDS																
BPL-04																
Target Range - Lower Bound																
Upper Bound																
CU-106																
Target Range - Lower Bound																
Upper Bound																
G2000	10	<1	0.43	20	0.67	566	4	0.01	283	950	667	0.24	19	7	66	
G2000	10	2	0.42	20	0.66	566	5	0.04	275	930	655	0.27	26	7	69	
Target Range - Lower Bound	<10	<1	0.38	<10	0.60	506	4	0.02	256	840	601	0.22	19	6	59	
Upper Bound	20	2	0.48	40	0.76	630	6	0.04	316	1050	738	0.30	27	9	74	
JWB-JV-1	<10	1	0.24	10	0.13	703	85	0.09	15	200	4470	0.73	104	1	51	
JWB-JV-1																
JWB-JV-1	<10	1	0.24	<10	0.12	669	85	0.15	13	180	4080	0.71	98	1	49	
Target Range - Lower Bound	<10	<1	0.22	<10	0.12	607	78	0.11	13	170	3880	0.63	83	<1	44	
Upper Bound	20	2	0.29	20	0.16	743	98	0.15	18	230	4750	0.79	105	2	56	
MER-03																
MER-03																
Target Range - Lower Bound																
Upper Bound																
OXX18																
OXX18																
Target Range - Lower Bound																
Upper Bound																
OXM16																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK	<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	
BLANK																
BLANK	<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	1	
BLANK																
BLANK	<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	
Target Range - Lower Bound	<10	<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	
Upper Bound	20	2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	ME-ICP41	NE-ICP41	
		Ga ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	NI ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
01520 DUP Target Range - Lower Bound Upper Bound																
01525 DUP Target Range - Lower Bound Upper Bound		10 10 <10 20	1 <1 <1 2	0.91 0.88 0.83 0.98	<10 <10 <10 20	1.30 1.25 1.19 1.36	488 475 447 516	<1 <1 <1 2	0.45 0.42 0.39 0.48	20 21 17 24	550 530 490 590	7 5 <2 10	1.28 1.22 1.17 1.33	<2 <2 <2 4	7 7 5 9	107 100 96 111



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	NI ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	
DUPLICATES																
01532		10	<1	0.22	10	1.33	715	2	0.03	18	1380	22	0.38	<2	4	75
DUP		10	<1	0.23	10	1.35	715	1	0.04	19	1400	21	0.38	<2	4	75
Target Range - Lower Bound		<10	<1	0.19	<10	1.25	669	<1	<0.01	16	1300	16	0.34	<2	2	69
Upper Bound		20	2	0.26	20	1.43	781	2	0.06	21	1480	27	0.42	4	6	81



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46
		Ti	Ti	U	V	W	Zn	Ag
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	1
STANDARDS								
BPL-04								
Target Range - Lower Bound								
Upper Bound								
CU-106								133
Target Range - Lower Bound								131
Upper Bound								142
G2000		0.05	<10	<10	66	<10	1260	
G2000		0.05	<10	<10	65	<10	1235	
Target Range - Lower Bound		0.04	<10	<10	59	<10	1130	
Upper Bound		0.07	20	20	74	20	1385	
JWB-JV-1		0.02	<10	<10	13	<10	9490	
JWB-JV-1								22
JWB-JV-1		0.02	<10	<10	13	<10	9180	
Target Range - Lower Bound		<0.01	<10	<10	11	<10	8550	20
Upper Bound		0.03	20	20	15	20	>10000	24
MER-03								
MER-03								
Target Range - Lower Bound								
Upper Bound								
OXX18								
OXX18								
Target Range - Lower Bound								
Upper Bound								
OXM16								
Target Range - Lower Bound								
Upper Bound								
BLANKS								
BLANK		<0.01	<10	<10	<1	<10	<2	
BLANK								<1
BLANK		<0.01	<10	<10	<1	<10	<2	
BLANK								
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2	<1
Upper Bound		0.02	20	20	2	20	4	2



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46
		Tl	Tl	U	V	W	Zn	Ag
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES						
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
01520 DUP Target Range - Lower Bound Upper Bound								
01525 DUP Target Range - Lower Bound Upper Bound		0.19	<10	<10	93	<10	98	853
		0.18	<10	<10	91	<10	94	851
		0.16	<10	<10	85	<10	87	829
		0.21	20	20	99	20	105	875



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QC CERTIFICATE OF ANALYSIS VA04051515

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46
		TI %	TI ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm
		0.01	10	10	1	10	2	1
DUPLICATES								
01532		0.08	<10	<10	50	<10		150
DUP		0.08	<10	<10	50	<10		144
Target Range - Lower Bound		0.08	<10	<10	45	<10		136
Upper Bound		0.10	20	20	55	20		158



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Au ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Ba ppm 10	Be ppm 0.5	Bi ppm 2	Ca % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1	Fe % 0.01	Ga ppm 10
STANDARDS																
G2000			3.4	1.86	472	<10	780	0.9	<2	0.50	6.7	23	69	308	3.59	10
G2000			3.4	1.92	486	10	870	1.0	<2	0.52	7.5	24	70	310	3.86	10
G2000			3.4	1.80	488	10	870	1.0	<2	0.51	7.4	24	70	304	3.76	10
G2000			3.4	1.80	492	10	840	1.0	<2	0.52	7.5	25	71	303	3.80	10
Target Range - Lower Bound			2.9	1.66	434	<10	740	<0.5	<2	0.46	6.3	22	64	272	3.41	<10
Upper Bound			3.9	2.08	534	20	920	1.0	4	0.58	8.9	29	80	334	4.19	20
JWB-JV-1			22.1	0.61	514	<10	150	<0.5	7	0.35	44.1	10	50	7820	3.03	<10
JWB-JV-1			20.9	0.64	536	<10	140	<0.5	<2	0.37	45.7	10	51	7970	3.27	<10
JWB-JV-1			19.9	0.62	514	<10	150	<0.5	11	0.36	44.9	11	49	7750	3.21	<10
JWB-JV-1			21.2	0.64	532	<10	140	<0.5	12	0.38	46.6	11	51	7870	3.33	<10
Target Range - Lower Bound			19.6	0.58	461	<10	130	<0.5	3	0.36	40.0	8	44	7090	2.89	<10
Upper Bound			24.4	0.73	567	20	190	1.0	9	0.46	50.0	12	56	8670	3.55	20
MER-03		0.697														
MER-03		0.653														
MER-03		0.745														
Target Range - Lower Bound		0.626														
Upper Bound		0.730														
OXK18		3.48														
OXK18		3.46														
OXK18		3.70														
Target Range - Lower Bound		3.22														
Upper Bound		3.71														
BLANKS																
BLANK		<0.005														
BLANK		<0.005														
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	2	<10	<10	<0.5	<2	<0.01	<0.5	1	<1	<1	<0.01	<10
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	1	<0.01	<10
BLANK			<0.2	<0.01	2	<10	<10	<0.5	<2	<0.01	<0.5	1	<1	<1	<0.01	<10
BLANK		<0.005														
Target Range - Lower Bound		<0.005	<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound		0.010	0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
DUPLICATES																
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		0.317														
DUP		0.338														
Target Range - Lower Bound		0.301														
Upper Bound		0.354														
ORIGINAL		0.140														
DUP		0.149														
Target Range - Lower Bound		0.127														
Upper Bound		0.162														
ORIGINAL		0.362														
DUP		0.279														
Target Range - Lower Bound		0.294														
Upper Bound		0.347														
ORIGINAL		0.049														
DUP		0.047														
Target Range - Lower Bound		0.036														
Upper Bound		0.060														
L 4+00 W +100 S			0.3	2.40	2	<10	20	<0.5	<2	0.23	<0.5	10	25	20	1.88	10
DUP			0.5	2.18	3	<10	20	<0.5	2	0.27	0.5	12	28	18	2.07	10
Target Range - Lower Bound			<0.2	2.16	<2	<10	<10	<0.5	<2	0.22	<0.5	8	23	16	1.86	<10
Upper Bound			0.8	2.42	4	20	40	1.0	4	0.26	1.0	14	30	22	2.09	20
L4 +40 W +40 N		0.007														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
L 4+80 W +20 S			0.2	0.68	6	<10	30	<0.5	<2	0.19	<0.5	2	7	7	1.15	<10
DUP			0.2	0.66	3	<10	40	<0.5	<2	0.19	<0.5	2	6	8	1.12	<10
Target Range - Lower Bound			<0.2	0.62	<2	<10	<10	<0.5	<2	0.16	<0.5	<1	4	5	1.06	<10
Upper Bound			0.4	0.72	9	20	60	1.0	4	0.22	1.0	4	9	10	1.21	20



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
DUPLICATES																
L5 +00 W +100 N DUP		<0.005														
		<0.005														
	Target Range - Lower Bound	<0.005														
	Upper Bound	0.010														
L 5+40 W +20 S DUP		<0.005														
		<0.005														
	Target Range - Lower Bound	<0.005														
	Upper Bound	0.010														
L 5+40 W +40 S DUP			<0.2	4.66	22	<10	50	<0.5	<2	0.09	<0.5	6	30	35	6.35	10
			<0.2	4.67	23	<10	60	<0.5	<2	0.09	<0.5	6	30	33	6.40	10
	Target Range - Lower Bound		<0.2	4.41	17	<10	30	<0.5	<2	0.07	<0.5	4	27	30	6.04	<10
	Upper Bound		0.4	4.92	28	20	80	1.0	4	0.11	1.0	8	34	38	6.71	20
L 5+80 W +60 S DUP		0.008														
		0.014														
	Target Range - Lower Bound	<0.005														
	Upper Bound	0.022														
ORIGINAL DUP			<0.2	1.48	2	<10	130	<0.5	<2	0.78	<0.5	9	28	1	3.94	<10
			<0.2	1.48	5	<10	130	<0.5	<2	0.80	<0.5	8	26	1	3.93	<10
	Target Range - Lower Bound		<0.2	1.39	<2	<10	100	<0.5	<2	0.73	<0.5	6	24	<1	3.72	<10
	Upper Bound		0.4	1.57	4	20	160	1.0	4	0.85	1.0	11	30	2	4.15	20



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Tl %
STANDARDS																
G2000		2	0.42	20	0.66	532	5	0.03	276	930	651	0.26	20	7	67	0.05
G2000		1	0.43	20	0.69	587	5	0.02	292	960	678	0.27	19	7	70	0.05
G2000		<1	0.42	20	0.65	553	5	0.01	289	930	658	0.26	20	7	65	0.05
G2000		<1	0.42	20	0.66	553	5	0.01	290	920	673	0.26	20	7	65	0.05
Target Range - Lower Bound		<1	0.38	<10	0.60	506	4	0.02	256	840	801	0.22	19	6	59	0.04
Upper Bound		2	0.48	40	0.76	630	8	0.04	316	1050	739	0.30	27	9	74	0.07
JWB-JV-1		2	0.23	10	0.12	658	85	0.12	15	190	4140	0.71	94	1	51	0.02
JWB-JV-1		1	0.24	10	0.12	695	85	0.11	14	180	4380	0.71	99	1	51	0.02
JWB-JV-1		<1	0.23	<10	0.12	679	82	0.11	13	190	4260	0.71	96	1	49	0.02
JWB-JV-1		2	0.23	10	0.13	707	86	0.12	14	190	4450	0.73	97	1	52	0.02
Target Range - Lower Bound		<1	0.22	<10	0.12	607	78	0.11	13	170	3860	0.63	83	<1	44	<0.01
Upper Bound		2	0.29	20	0.16	753	98	0.15	18	230	4750	0.79	105	2	56	0.03
MER-03																
MER-03																
MER-03																
Target Range - Lower Bound																
Upper Bound																
OXX18																
OXX18																
OXX18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK		1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<0.01
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	1	<10	<2	<0.01	<2	<1	<1	<0.01
BLANK		<1	<0.01	<10	<0.01	<5	1	<0.01	<1	<10	2	<0.01	<2	<1	1	<0.01
BLANK		<1	<0.01	<10	<0.01	<5	1	<0.01	<1	<10	3	<0.01	<2	<1	<1	<0.01
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<0.01
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	0.02



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		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
L 4+00 W +100 S		1	0.02	<10	0.29	173	2	0.02	9	550	7	0.10	<2	1	13	0.09
DUP		1	0.01	<10	0.29	186	2	0.01	12	520	9	0.09	<2	1	12	0.08
Target Range - Lower Bound		<1	<0.01	<10	0.26	161	<1	<0.01	8	490	4	0.07	<2	<1	10	0.06
Upper Bound		2	0.02	20	0.32	198	4	0.02	13	580	12	0.12	4	2	15	0.11
L4 +40 W +40 N																
DUP																
Target Range - Lower Bound																
Upper Bound																
L 4+80 W +20 S		<1	0.03	<10	0.16	87	1	<0.01	2	270	4	0.07	<2	1	25	0.06
DUP		<1	0.03	<10	0.17	88	<1	<0.01	<1	260	5	0.06	<2	1	25	0.06
Target Range - Lower Bound		<1	<0.01	<10	0.14	73	<1	<0.01	<1	240	<2	0.04	<2	<1	22	0.04
Upper Bound		2	0.05	20	0.19	102	2	0.02	2	300	9	0.09	4	2	28	0.08



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QC CERTIFICATE OF ANALYSIS VA04051517

Method Analyte Units LOR	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Tl %
Sample Description	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	0.01
L5 +00 W +100 N DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
L 5+40 W +20 S DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
L 5+40 W +40 S DUP Target Range - Lower Bound Upper Bound	1 1 <1 2	0.04 0.04 0.02 0.08	<10 <10 <10 20	0.55 0.55 0.50 0.60	241 246 221 266	3 3 <1 5	<0.01 <0.01 <0.01 0.02	7 5 4 8	190 200 170 220	14 11 8 17	0.05 0.05 0.03 0.07	<2 <2 <2 4	6 6 4 8	14 14 11 17	0.21 0.21 0.18 0.24
L 5+80 W +60 S DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<1 <1 <1 2	0.27 0.26 0.23 0.30	10 10 <10 20	0.64 0.64 0.59 0.69	1005 1005 945 1085	1 1 <1 2	0.11 0.11 0.08 0.14	2 3 <1 5	1000 1020 940 1090	5 6 <2 10	<0.01 0.02 <0.01 0.02	<2 <2 <2 4	2 2 <1 4	55 55 50 60	0.21 0.21 0.18 0.24



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
STANDARDS						
G2000		<10	<10	65	<10	1235
G2000		<10	<10	67	<10	1270
G2000		<10	<10	67	<10	1240
G2000		<10	<10	67	<10	1275
Target Range - Lower Bound		<10	<10	59	<10	1130
Upper Bound		20	20	74	20	1385
JWB-JV-1		<10	<10	12	<10	9290
JWB-JV-1		<10	<10	12	<10	9580
JWB-JV-1		<10	<10	13	<10	9350
JWB-JV-1		<10	<10	13	<10	9510
Target Range - Lower Bound		<10	<10	11	<10	8550
Upper Bound		20	20	15	20	>10000
MER-03						
MER-03						
MER-03						
Target Range - Lower Bound						
Upper Bound						
OXX18						
OXX18						
OXX18						
Target Range - Lower Bound						
Upper Bound						
BLANKS						
BLANK						
BLANK						
BLANK		<10	<10	<1	<10	<2
BLANK		<10	<10	<1	<10	<2
BLANK		<10	<10	1	<10	<2
BLANK		<10	<10	<1	<10	<2
BLANK						
Target Range - Lower Bound		<10	<10	<1	<10	<2
Upper Bound		20	20	2	20	4



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QC CERTIFICATE OF ANALYSIS VA04051517

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		TI	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES				
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
ORIGINAL DUP Target Range - Lower Bound Upper Bound						
L 4+00 W +100 S DUP Target Range - Lower Bound Upper Bound		<10 <10	<10 <10	90 96	<10 <10	26 29
		<10	<10	86	<10	22
		20	20	100	20	33
L4 +40 W +40 N DUP Target Range - Lower Bound Upper Bound						
L 4+80 W +20 S DUP Target Range - Lower Bound Upper Bound		<10 <10	<10 <10	40 39	<10 <10	17 17
		<10	<10	36	<10	12
		20	20	43	20	22



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Tl ppm	U ppm	V ppm	W ppm	Zn ppm
L5 +00 W +100 N DUP Target Range - Lower Bound Upper Bound		10	10	1	10	2
DUPLICATES						
L 5+40 W +20 S DUP Target Range - Lower Bound Upper Bound						
L 5+40 W +40 S DUP Target Range - Lower Bound Upper Bound		<10 10	<10 10	152 152	<10 10	44 43
L 5+80 W +60 S DUP Target Range - Lower Bound Upper Bound		<10 20	<10 20	142 162	<10 20	37 50
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<10 10	<10 10	77 75	<10 10	120 119
		<10 20	<10 20	70 82	<10 20	110 129