

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

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

TOTAL COST: \$6,755.63

AUTHOR(S): Clayton Jones

SIGNATURE(S): Clayton Jones

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): NA

YEAR OF WORK: 2022

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5964854, January 17, 2023

PROPERTY NAME: Sparta

CLAIM NAME(S) (on which the work was done): 1092661, 1091775, 1091719, 1091432, 1091588, 1091480

COMMODITIES SOUGHT: Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093A 151, 093A 331, 093A 332, 093A 333

MINING DIVISION: CARIBOO

NTS/BCGS: 093A/11

LATITUDE: 52 ° 35 '38 " LONGITUDE: 121 ° 19 '20 " (at centre of work)

OWNER(S):

1) MILOSZ MIELNICZUK

2)

MAILING ADDRESS:

220 Richlands Road Cherryville, British Columbia V0E 2G1

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

1) AURUM VENA MINERAL RESOURCES CORP.

2)

220 Richlands Road Cherryville, British Columbia V0E 2G1

MAILING ADDRESS:

220 Richlands Road Cherryville, British Columbia V0E 2G1

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

Quesnel terrane, Slide Mountain terrane, Nicola Group, Eureka Thrust Fault, black phyllite, quartz veins, ankerite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 36161, 36462

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>	_____	_____	_____
<b>Photo interpretation</b>	_____	_____	_____
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>	_____	_____	_____
<b>Electromagnetic</b>	_____	_____	_____
<b>Induced Polarization</b>	_____	_____	_____
<b>Radiometric</b>	_____	_____	_____
<b>Seismic</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
<b>Airborne</b>		_____	_____
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b> 3	_____	1091432	\$66.91
<b>Silt</b>	_____	_____	_____
<b>Rock</b> 15	_____	1091432	\$455.05
<b>Other</b>	_____	_____	_____
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>	_____	_____	_____
<b>Non-core</b>	_____	_____	_____
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b>	_____	_____	_____
<b>Petrographic</b>	_____	_____	_____
<b>Mineralographic</b>	_____	_____	_____
<b>Metallurgic</b>	_____	_____	_____
<b>PROSPECTING (scale, area)</b> 50 ha	_____	1091432	6,233.67
<b>PREPARATORY / PHYSICAL</b>			
<b>Line/grid (kilometres)</b>	_____	_____	_____
<b>Topographic/Photogrammetric (scale, area)</b>	_____	_____	_____
<b>Legal surveys (scale, area)</b>	_____	_____	_____
<b>Road, local access (kilometres)/trail</b>	_____	_____	_____
<b>Trench (metres)</b>	_____	_____	_____
<b>Underground dev. (metres)</b>	_____	_____	_____
<b>Other</b>	_____	_____	_____
		<b>TOTAL COST:</b>	<b>\$6755.63</b>

# 2022 PROSPECTING REPORT ON THE SPARTA PROPERTY, CARIBOO MINING DIVISION, BRITISH COLUMBIA

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**MINING DIVISION:**

*CARIBOO*

**COORDINATES:**

*UTM: ZN 10 613730 E 5830560 N*

**NTS MAP SHEET:**

*093A/11*

**WORK DONE:**

*OCTOBER 15 - 17, 2022*

**OWNER:**

*MILOSZ MIELNICZUK*

**MINERAL TNEURES:**

1092661

1101385

1091775

1091719

1091432

1091588

1091480

**PREPARED ON BEHALF OF:**

**AURUM VENA MINERAL RESOURCES CORP.**

*220 Richlands Road  
Cherryville, British Columbia  
VOE 2G1*

By

*Clayton Jones, B.Sc. GIT  
February 15, 2023*

**TABLE OF CONTENTS**

1.0	INTRODUCTION.....	1
2.0	PROPERTY LOCATION & ACCESS.....	1
3.0	DESCRIPTION OF MINING CLAIMS.....	3
4.0	PHYSIOGRAPHY.....	5
5.0	PROPERTY HISTORY.....	6
6.0	GEOLOGICAL SETTING.....	10
7.0	DISCUSSIONS.....	13
8.0	METHODOLOGY.....	17
9.0	CONCLUSION/ RECOMENDATIONS.....	18
10.0	REFERENCES.....	19
11.0	STATEMENT OF QUALIFICATIONS OF AUTHOR .....	20

TABLES

TABLE 1:	Claim Group Information.....	3
TABLE 2:	2022 Sample Descriptions .....	10

FIGURES

FIGURE 1:	Property Location.....	2
FIGURE 2:	Claim Group.....	4
FIGURE 3:	Physiography.....	6
FIGURE 4:	Mineral Occurrence / Exploration History.....	8
FIGURE 5:	Exploration Projects / Mineral Deposits .....	9
FIGURE 6:	Regional Geology.....	11
FIGURE 7:	Property Geology.....	12
FIGURE 8:	Sample Location Map .....	15
FIGURE 9:	Field Photos.....	16

APPENDICES

APPENDIX 1:	2022 Program Costs
APPENDIX 2:	2022 Certificates of analysis

## **1.0 INTRODUCTION**

This report describes the assessment work performed on Aurum Vena Mineral Resources' Sparta Property between the dates of October 15 – 17, 2022. Clayton Jones, author of this report, conducted a first-pass prospecting program designed to follow up on mineralized quartz veins identified in 2016 by Barker Minerals Ltd. A total of 15 rock and 3 soil samples were collected for geochemical analysis. Narrow mineralized quartz veins were sampled but no significant precious metal values were obtained; however, all three soil samples contained anomalous Au with a maximum value of 569 ppb Au. This gold-in-soil anomaly is encouraging, and warrants follow up prospecting to confirm the source.

## **2.0 PROPERTY LOCATION & ACCESS**

The Sparta property is located within the Cariboo Mining Division in 1:50,000 NTS map sheet 093A/11. The property is centred at UTM ZN 10 613730m E 5830560m N (NAD 83); 70 km east of Williams Lake and 20 km northeast from the community of Likely. The southern edge of the property is contiguous to the northeast end of Spanish Lake, covering the headwaters of Black Bear and Spanish Creeks (Figure 1). From the community of Likely, the claims can be accessed by the well-maintained Spanish Lake Forest Service Road, providing access to the southern part of the property, while numerous secondary logging roads provide good access to the rest of the property (Figure 2).



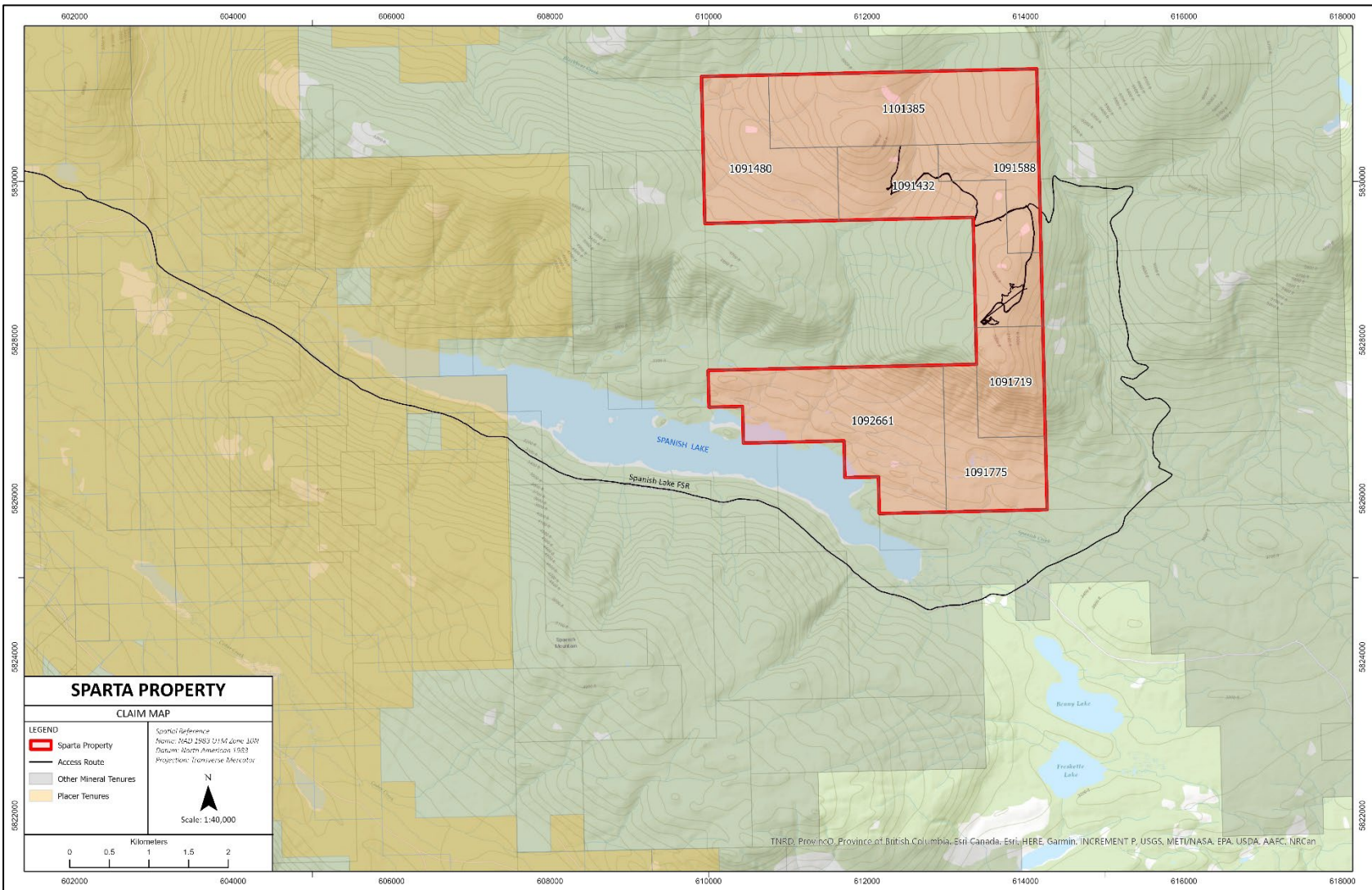
### **3.0 DESCRIPTION OF MINING CLAIMS**

The Sparta property consist of 7 contiguous mineral tenures staked between the dates of January 27, 2022 to January 28, 2023. The claims cover 1,532 ha and are 100% owned by Milosz Mielniczuk of Aurum Vena Mineral Resources Corp., with no underlying royalties or payments. Refer to Figure 2 for the mineral tenure map. A summary of mineral tenure information for the Sparta claim block can be found in Table 1. The work described in this report was registered with Mineral Titles Online (MTO), January 17, 2023 (statement of work event number 5964854). A Notice of Work (NOW) permit was not required for any of the work performed on the property. The total costs associated with the prospecting program can be found in appendix 1.

**TABLE1: MINERAL TENURE INFORMATION**

TENURE NUMBER	CLAIM NAME	TYPE	ISSUE DATE	EXPIRY DATE	SIZE (Ha)	OWNER
1092661	BARCELONA	Mineral	20220128192451	20240228	353.6539	MIELNICZUK, MILOSZ
1101385	BIGS	Mineral	20230128100104	20240128	314.0651	MIELNICZUK, MILOSZ
1091775	MORE	Mineral	20220127084701	20240227	157.1852	MIELNICZUK, MILOSZ
1091719	WHODAT	Mineral	20220127082139	20240227	117.8638	MIELNICZUK, MILOSZ
1091432	SPARTA	Mineral	20220127080032	20240227	255.2592	MIELNICZUK, MILOSZ
1091588	2QUIK	Mineral	20220127080542	20240227	98.162	MIELNICZUK, MILOSZ
1091480	SPA2	Mineral	20220127080149	20240227	235.595	MIELNICZUK, MILOSZ

FIGURE 2: MINERAL TENURE MAP



#### **4.0   PHYSIOGRAPHY**

The following description in grey italics, is after McKinley, 2004 with minor edits to text underlined:

*The property is situated in the central part of the Quesnel Highland between the eastern edge of the Interior Plateau and the western foothills of the Columbia Mountains. This area contains rounded mountains that are transitional between the rolling plateaus to the west and the rugged Cariboo Mountains to the east. Pleistocene and Recent ice sheets flowed away from the high mountains to the east over these plateaus and down to the southwest (Cariboo River), west (Little River) and northeast (Quesnel Lake), carving U-shaped valleys. The elevation ranges from 940 – 1580 m. Precipitation in the region is heavy, as rain in the summer and snow in the winter. Drainage is to the west via the Cariboo, Little and Quesnel Rivers to the Fraser River. Quesnel Lake, the main scenic and topographic feature in the region, is a deep, long, forked, glacier-carved lake with an outlet at 725 m elevation. Vegetation is old-growth spruce, fir, pine, hemlock and cedar forest in all but the alpine regions of the higher mountains (mainly above 1400 m elevation). There is active logging in the area with many clear cuts and access roads riddled throughout the property.*

**FIGURE 3:   PHYSIOGRAPHY**

*Looking north-west at the recently logged saddle area, elevation ~1540 meters, where the majority of the 2022 prospecting took place on the Sparta property (tenure 1091432).*



**5.0   PROPERTY HISTORY**

The claims comprising the Sparta property have limited documented exploration, however; the area directly west, covering the Black Bear creek drainage, has an extensive work history dating back the turn of the 18th century.

Placer mining was first conducted on Black Bear creek in the late 1800s and continues through to the present day. The Providence Mine, located 4.5 km up Black Bear Creek on the north side, was discovered in 1926 and periodically mined until 1968 (MINFILE 093A003). Mineralization consists of argentiferous galena with pyrite, minor sphalerite, and gold in gently dipping, not exceeding 20 degrees to the northeast, quartz veins hosted by meta-rhyolite(?) tuff and phyllite-mudstone. The main quartz vein (No.2 vein) has been traced over 180 meters and averages approximately 4.5 meters in width (MINFILE 093A003).

In 2010, Barker Minerals acquired the Black Bear property, covering most of the Black Bear creek drainage including the area now covered by the Sparta property. The property was held in good standing over a decade and consisted of property wide geochemical sampling, 2000 meters of trenching and 744 meters of drilling at the Providence Au-Ag occurrence.

Four known mineral showings, recorded in the provincial government mineral occurrence files, lie within the boundary of the Sparta claim group (Figure 4). These are the BIG (093A 151), BB (093A 331), LA (093A 332), and BLACK BEAR EAST (093A 332). These four minfile's summarize work complete by Barker Minerals in 2015 and 2016. Barker Minerals completed systematic property wide rock sampling in portions of the Sparta property (Figure 4). A total of ~ 130 rock samples were analyzed for 40 elements using X-ray fluorescence (XRF) analysis (Turna, R. 2016). The rocks were analyzed in a manner to determine both their "high grade" and "low grade" values at each site, to minimize a "nugget" effect and to determine background values. In total, 387 XRF analysis were complete. The results from the program outlined a 250 X 250 meter area containing anomalous As, Pb, Zn, Ag and Cu and three samples containing > 10 g/t Au (Figure 4).

**FIGURE 4: MINERAL OCCURRENCES / HISTORICAL EXPLORATION**

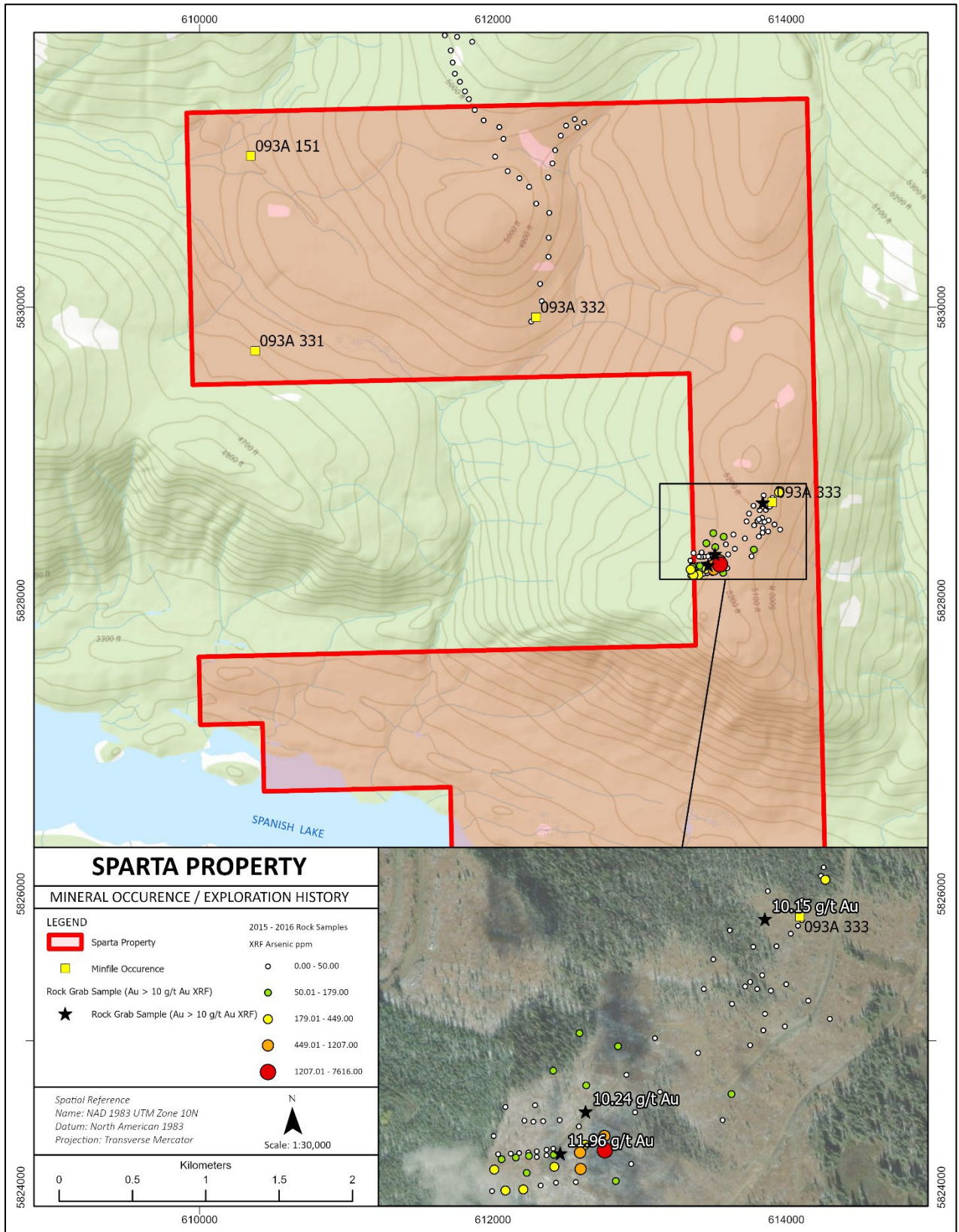
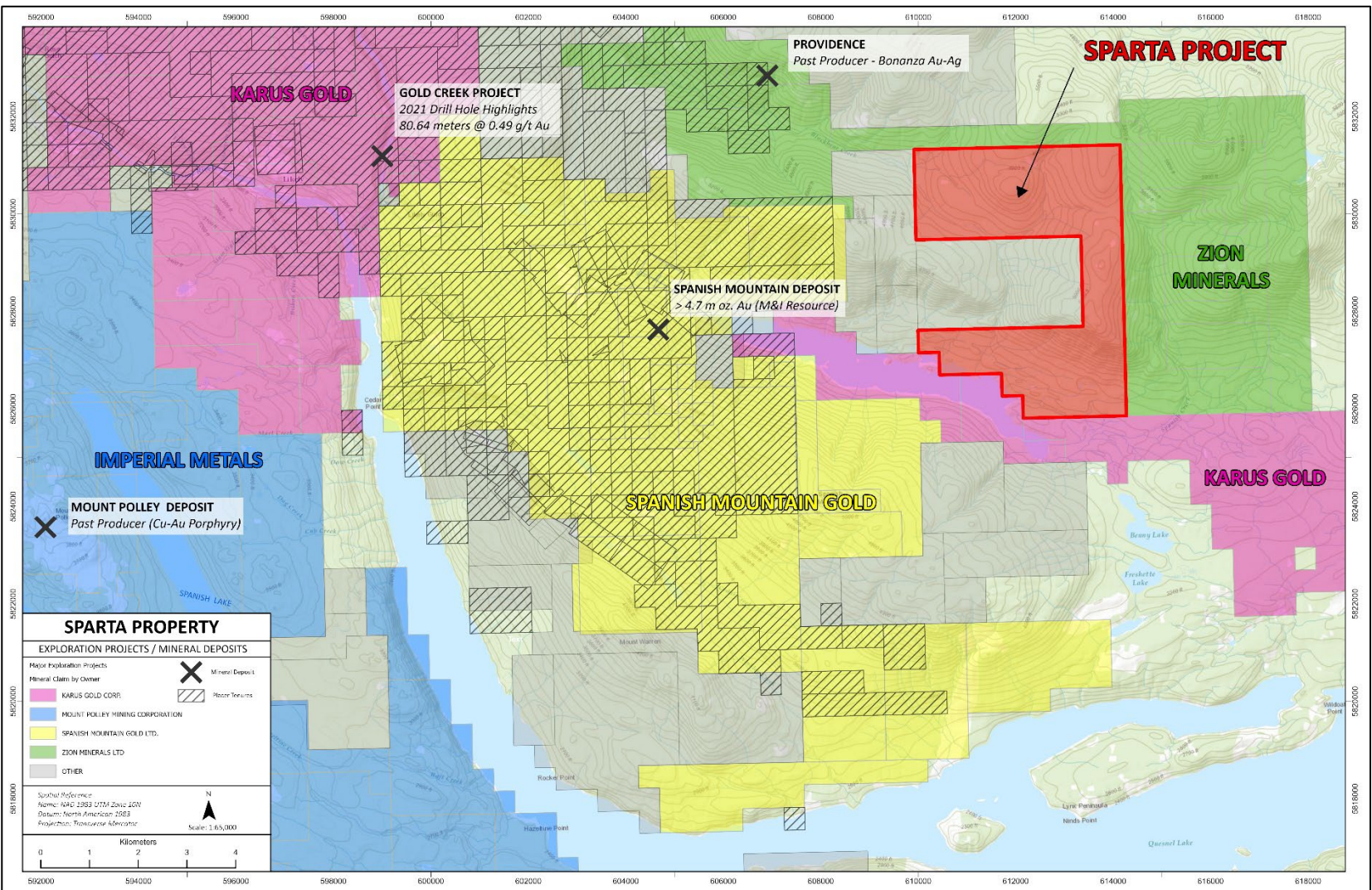


FIGURE 5: EXPLORATION PROJECTS / MINERAL DEPOSITS



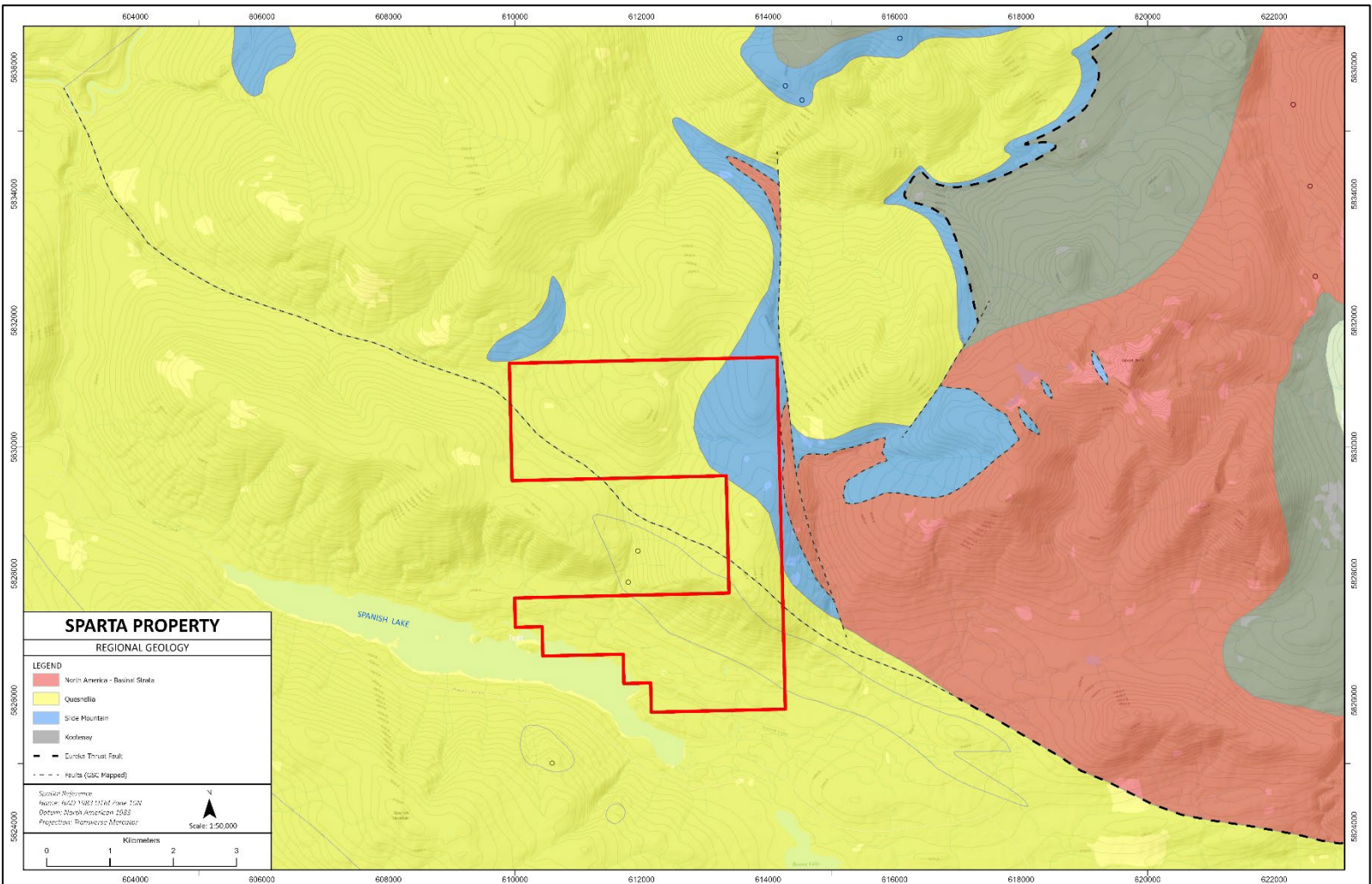
## **6.0 GEOLOGICAL SETTING**

The Sparta property lies near the junction of the Mesozoic Intermontane Belt and the Precambrian to Paleozoic rocks of the Omineca Belt. The majority of the property covers Nicola Group volcanic and sedimentary rocks of the Quesnellia terrane with a smaller unit of ultramafic rocks of the Slide Mountain terrane mapped along the northwestern edge of the property (Figure 5).

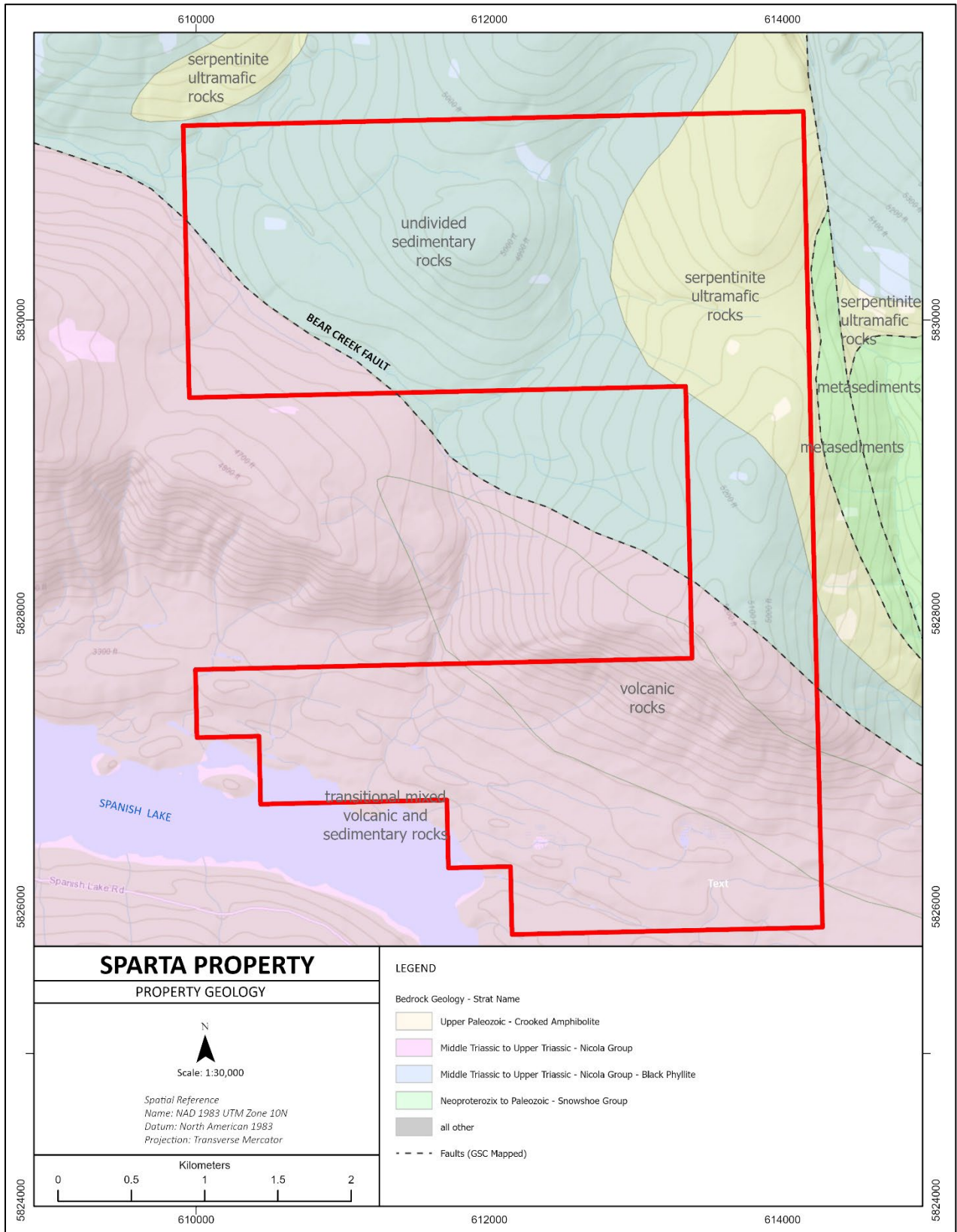
The property is cut by the northwest trending Black Bear Creek fault, separating two different rock types within the Nicola Group rocks. South of the fault contains mixed volcanic and sedimentary rocks while the north of the fault contains undivided black Phyllites. The black phyllites are comprised of red-brown weathering phyllite, grey siltstone and interbedded felsic tuffs, which form the lowermost part of the Upper Triassic to Lower Jurassic Nicola Group. This unit has been thrust onto the older rocks of the Omineca terrane with which it has been deformed and metamorphosed, probably during the Middle to Late Jurassic. Upper Paleozoic serpentinized ultramafic rocks of the Crooked Amphibole unit have intruded along this thrust fault known as the Eureka Thrust fault (Figure X) at the northwestern edge of the Sparta property.

The Sparta property is being explored for Bonanza Au-Ag quartz veins like the Providence deposit (3.5 km to the northwest) and for stratigraphically controlled disseminated gold mineralization similar to the Spanish Mountain gold deposit (5.0 km to the southwest) (Figure X).

**FIGURE 6: REGIONAL GEOLOGY MAP**



**FIGURE 7: PROPERTY GEOLOGY**



## **7.0 DISCUSSIONS**

Clayton Jones completed the 3-day prospecting program at the Sparta property between the dates of October 15 – 17, 2022. Clayton Jones travelled from Kamloops BC via 4X4 truck and camped on site for the duration of the program. An ATV was used to navigate the deactivated logging roads on the property.

The goal of the prospecting program was to follow up on anomalous XRF samples taken by Barker Minerals in 2015 and 2016 (ARIS reports 36161 & 36462); where a cluster of XRF samples returned anomalous Ag, Pb, As, Bi, and Sb over a 250 X 250-meter zone. Only 4 samples returned elevated gold values. These samples included 1920 (11.96 ppm Au), 1971 (10.24 ppm Au), 2065 (10.15 ppm Au) and 4780 (10.23 ppm Au). These sample sites were followed up with first pass prospecting and geochemical sampling in 2022.

Only a small portion of the claim block was evaluated for its gold potential during the 2022 prospecting program. (Figure 8). A total of 15 rock and 3 soil samples were collected for geochemical analysis. Refer to figure 8 for the sample location and traverse map and table 2 for the sample descriptions. The sampling protocol and procedure can be found in section X: Methodology.

All prospecting and geochemical sampling was completed in tenure 1091432 with most of the work centered over a recently logged ridge top saddle. Black to brown phyllite and argillite hosted numerous narrow oxidized quartz veins with patchy sulfide mineralization consisting of blebs of pyrite, chalcopyrite, sphalerite, and galena. Veins appear to be primarily < 50 cm wide and pinch and swell. Carbonate alteration is evident with some veins containing abundant ankerite/siderite mineralization. Outcrop was scarce and reserved mainly to the logging road cuts.

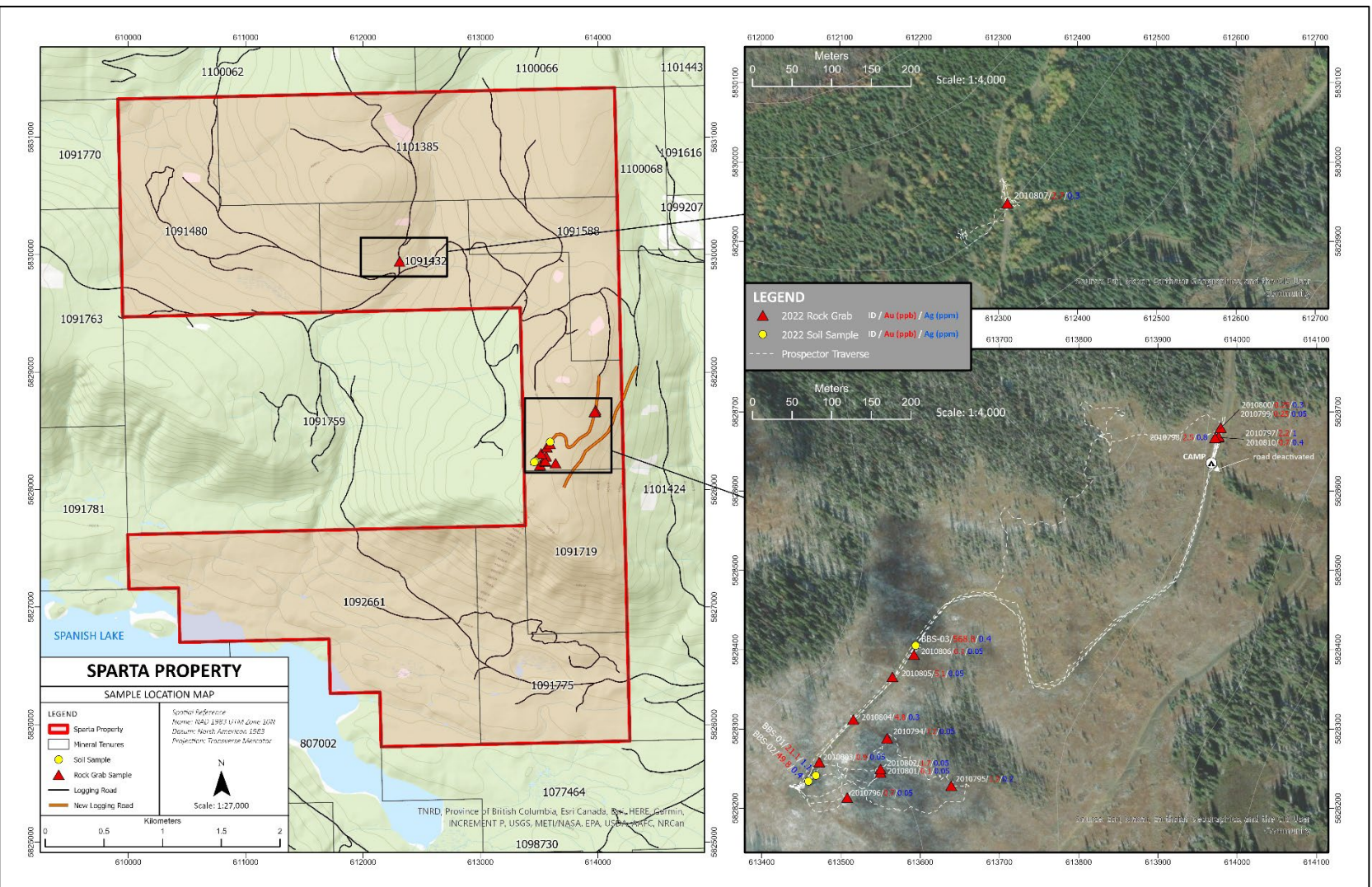
Despite sampling numerous mineralized quartz veins (and wall rock) within the area that Barker Mineral outlined a multi element XRF anomaly in 2016, none of the 2022 rock samples contained economic metal values. The three soil samples randomly collected in the area did however contain anomalous arsenic and gold with a maximum value of 568 ppb Au and 115 ppm As.

The XRF sampling completed in 2015 and 2016 by Barker Minerals was not repeatable and believed to be errored and not representative of underlying rocks. It is postulated that the strongly anomalous elements recorded by the XRF analysis, are representing specific values within a mineral assemblage therefore providing much higher values than what the rock on whole would assay.

TABLE 2: SAMPLE DESCRIPTIONS

Sample ID	Location (UTM Zone 10)			Type	Description	Ag PPM	Fe %	As PPM	Au PPB
	Northing	Easting	Elevation						
2010794	5828289	613558	1574	float	random 20X20 cm qv block along edge of east-west gully, white qv with oxi frags and lim filled voids, minor fresh py blebs	<0.1	1.03	52	7.2
2010795	5828229	613639	1578	subcrop	subcrop, lighter brown strong fol sandstone, oxi cubic py throughout, rep sample of limited rock exposure along nw-se gully	0.2	2.79	11.5	1.2
2010796	5828214	613508	1581	float	float from 30 cm deep hand dug pit, follow up on 2016 xrf sample 1903 (high Sb, Pb, As), oxi qv rubble with abundant lim filled voids, no sulfide	<0.1	0.81	10.8	0.7
2010797	5828668	613976	1560	subcrop	fresh py and gn in qv blowout along road side, subcrop, patchy min with fresh sulfide scarce, 10 m wide qv rubble zone hosted in oxi phyllite, maybe 2 m wide qv at widest part	1	0.81	<0.5	2.2
2010798	5828670	613977	1563	subcrop	same sample location as previous, dark gossanous phyllite wall rock at margin of qv, increase sericite alt and fine diss'd sulfide @ 10%	0.8	7.94	14.9	2.5
2010799	5828681	613979	1562	subcrop	fresh py and gn blebs in white qv rubble hosted in gossanous phyllite, minor sulfide (non abundant)	<0.1	0.49	<0.5	<0.5
2010800	5828681	613979	1561	subcrop	same sample location as last sample, wall rock / margin of qv vein, strong oxi phyllite with 5% sulfide	0.3	2.42	<0.5	<0.5
2010801	5828246	613550	1581	float	white qv with orange lim filled voids (maybe siderite or ankerite?) and local fresh sulfide blebs and diss'd (2-3%)	<0.1	1.6	<0.5	6.1
2010802	5828250	613550	1578	float - subcrop	well fol argillite/siltstone, crenulated with qtsv, < 2 mm cubic py pseudomorphs filled with lim, sooty texture.	<0.1	2.17	<0.5	1.7
2010803	5828259	613473	1572	float	fresh sulfide in qv block beside road cut, 30 x 30 cm angular block, minor ankerite/siderite blebs	<0.1	1.12	2.7	0.9
2010804	5828313	613516	1566	float	follow up on 2016 xrf 1971 @ 10.24 g/t Au, quartz-feldspar vein hosted in oxi phyllite with fine qtsv and < 2 mm cubic py pseudomorphs, no fresh sulfide, rep sample at follow up site location	0.3	2.8	74.6	4.8
2010805	5828366	613565	1562	float	60X30 cm qv with 2m rubble train, patchy fresh sulfide blebs and lim filled voids, sulfides increase towards margin of qv block, orange ankerite/siderite blebs up to 15mm, local cpy blebs < 2mm	<0.1	1.24	3.9	5.1
2010806	5828394	613592	1566	float	40 cm wide qv hosted in oxi phyllite along roadside cut, subcrop basically, patchy py cpy blebs up to 15mm	<0.1	1.57	1.6	6.1
2010807	5829949	612312	1365	float	qv in light felsic intrusive porphyritic dike?, unique to what observed to the south, local large blebs of py/asp, non very abundant but didn't hunt around much, large 50 cm wide qv in outcrop nearby	0.3	0.75	<0.5	2.7
2010810	5828668	613972	1566	subcrop	gossanous shale/phyllite hosting good qvng beside road cut, rep sample to test sediment host style gold mineralization	0.4	4.72	0.5	0.7
BBS-01	5828241	613468	1579	soil	soil sample of roadside cut, abundant quartz vein fragments in sooty argillite, py voids in argillite, rep sample testing Spanish Mountain sediment hosted style gold, 10 cm depth, black color	1.1	6.97	78.3	21.1
BBS-02	5828234	613459	1577	soil	soil sample of roadside cut, abundant quartz vein in sooty argillite, py voids in argillite, rep sample testing Spanish Mountain sediment hosted style gold, 10 cm depth, black color	0.4	3.77	115.2	49.8
BBS-03	5828405	613594	1569	soil	soil sample of roadside cut, abundant quartz vein in gossanous phyllite, py voids in sed, rep sample testing Spanish Mountain sediment hosted style gold, 10 cm depth, dark brown to black color	0.4	12.02	85.3	568.8

FIGURE 8: 2022 SAMPLE LOCATION AND TRAVERSE MAP



**FIGURE 9: FIELD IMAGES**

**Top Left:** Abundant quartz stockwork hosted in phyllite **Top Right:** Soil sample site BBS-03 that assayed over 569 ppb Au, note sporadic quartz veining resting in the soil. **Middle Left:** Crenulated pyrite argillite host rock. **Middle Right:** Oxidized phyllite host rock with large cubic pyrite. **Bottom:** Typical quartz veins sampled at the Sparta.



## **8.0 METHODOLOGY**

Rock grab samples were taken by geologists, Clayton Jones, author of the report, with the average sample weighing approximately 1.6 kg. Mineralized bedrock and float grab samples were described and photographed in situ prior to sealing in sample bags. The location was marked using a hand-held GPS unit (accuracy 1-10 m) and flagged with biodegradable flagging tape with the sample label. The following information was recorded on all-weather paper: sample ID, easting, northing, type of sample (outcrop, subcrop, float), and a brief description.

All the rock samples collected during the 2022 program were dropped off for shipping at Bandstra Transportation System Ltd (Bandstra) in Kamloops BC. Samples were shipped via freight to Bureau Veritas Commodities Canada Ltd. in Vancouver BC for geochemical analysis. The assay certificates for all geochemical samples are in appendix 2: Certificates of Analysis.

All rock samples were crushed, pulverized, and analyzed by Bureau Veritas in Vancouver, BC. The samples were first dried at 60 degrees celsius and then up to 1 kg were crushed to 70% passing a 10 mesh (2mm). A split of 250 g is then further pulverized to 85% passing 200 mesh (75um). The remaining coarse reject portions of the sample remains in storage at the Bureau Veritas storage facility in Vancouver, BC and are disposed of after 3 months from the date of analytical completion. The rock samples received the following analysis: Aqua Regia ICP – MS/ES, 37 element analytical analysis (AQ200) and fire assay ICP – ES analytical analysis for gold only (FA-350 – Au). The Aqua Regia ICP – MS/ES analysis involves a 0.5 g split leached in a modified aqua regia digestion (1:1:1 HNO<sub>3</sub>:HCl:H<sub>2</sub> O). The fire assay ICP - ES (FA 350 - Au) analysis involves a 50-gram split being fully decomposed in lead-collection fire assay fusion procedure with inductively-coupled plasma [atomic] emission spectroscopy (ICP-ES) finish. The fire assay is used because refractory, massive sulphide and graphitic samples can limit Au solubility potentially yielding lower gold values in the standard Aqua Regia ICP – MS/ES procedure (AQ200).

All soil samples received Aqua Regia ICP - MS, 37 element analytical analysis (AQ201) assay procedure that involves a 15 g split leached in hot (95°C) aqua regia solution with an inductively-coupled plasma mass spectroscopy (ICP-MS) finish.

Bureau Veritas performs their own QA/QC procedure and are ISO 9001 certified. Blanks, duplicates, and standard reference materials are inserted in sequence of client's samples to provide a measure of background noise, accuracy and precision.

## **9.0 CONCLUSIONS / RECOMMENDATIONS**

The results from the prospecting program were relatively disappointing with no rock grab samples returning elevated precious metals. The results obtained in Barker Minerals' 2015 and 2016 XRF sampling program are not repeatable, as re-sampling of numerous sample sites for both vein material and wall rock did not return anomalous values.

All three soil samples collected on the property did however return anomalous gold and arsenic values which is encouraging and suggest economic potential for Au-Ag mineralization nearby. Additional prospecting is recommended to follow up on soil sample BBS-03 (> 0.5 g/t Au) to determine the source of the gold. Furthermore, prospecting efforts are recommended to focus along the northwest – southeast Black Bear Fault as this major structure is thought to be closely related to the precious metal mineralization in the area.

## **10.0 REFERENCES**

*Turna, R., (2016): Geological & Geochemical Work on the Black Bear East Project, Cariboo Mining Division, British Columbia; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 36161*

*Turna, R., (2016): Geological & Geochemical Work on the Black Bear East Project, Cariboo Mining Division, British Columbia; B.C. Ministry of Energy, Mines and Petroleum Resources, Assessment Report 36462*

MINFILE 093A151

Retrieved from: <https://minfile.gov.bc.ca/Summary.aspx?minfilno=093A++151>

MINFILE 093A331

Retrieved from: <https://minfile.gov.bc.ca/Summary.aspx?minfilno=093A++331>

MINFILE 093A332

Retrieved from: <https://minfile.gov.bc.ca/Summary.aspx?minfilno=093A++332>

MINFILE 093A333

Retrieved from: <https://minfile.gov.bc.ca/Summary.aspx?minfilno=093A++333>

MINFILE 093A003

Retrieved from: <https://minfile.gov.bc.ca/Summary.aspx?minfilno=093A++003>

**11.0 STATEMENT OF QUALIFICATIONS OF AUTHOR**

I, Clayton Jones, of:

Kamloops B.C.,

Do hereby certify that:

1. I am a mineral exploration geologist with over 12 years of experience working in the Yukon Territory and British Columbia.
2. I am a graduate of the University of British Columbia Okanagan (UBCO), with a degree in geology (B.Sc., 2011) and have been involved in geology and mineral exploration continuously since 2009.
3. I am a registered geologist in good standing with the Association of Professional Geologists and Engineers of British Columbia (APEGBC) and hold the title “geologist in training” (GIT).
4. I am the author of this report on the Sparta property located in the Cariboo Mining Division, British Columbia. The report is based on my personal examination of the ground between October 15<sup>th</sup> – 17<sup>th</sup>, 2022.

---

Clayton Jones, B.Sc., GIT  
February 15, 2023

## APPENDIX 1

## 2022 PROGRAM COSTS

Exploration Work type	Comment	Days		Totals
<b>Personnel (Name)* / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>
Clayton Jones (Geologist)	October 15 - 17 (3 days)	3	\$550.00	\$1,650.00
				\$1,650.00
				<b>\$1,650.00</b>
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>			
Literature search	Clayton Jones (Geologist)	1.0	\$550.00	\$550.00
Database compilation	Clayton Jones (Geologist)	0.5	\$550.00	\$275.00
General research	Milo (Geologist)	1.0	\$550.00	\$550.00
Report preparation	Clayton Jones (Geologist)	3.0	\$550.00	\$1,650.00
				\$3,025.00
				<b>\$3,025.00</b>
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Soil	3 (as per receipt, includes shipping)	1.0	\$66.91	\$66.91
Rock	15 samples (as per receipt, includes shipping)	1.0	\$455.05	\$455.05
				\$521.96
				<b>\$521.96</b>
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
truck rental	4X4 Mazda B4400	3.00	\$150.00	\$450.00
ATV	Yamah Bear Cat 450	3.00	\$75.00	\$225.00
Other	gasoline as per receipt	1.00	\$240.06	\$240.06
				\$915.06
				<b>\$915.06</b>
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>			
Camp	\$100 per night (wall tent, stove, etc)	2.00	\$100.00	\$200.00
Meals	As per grocery receipts	1.00	\$68.61	\$68.61
				\$268.61
				<b>\$268.61</b>
<b>Miscellaneous</b>				
Telephone	InReach Communication	3.00	\$25.00	\$75.00
				\$75.00
				<b>\$75.00</b>
<b>Equipment Rentals</b>				
Field Gear (Specify)	\$100/day	3.00	\$100.00	\$300.00
				\$300.00
				<b>\$300.00</b>
<b>TOTAL Expenditures</b>				<b>\$6,755.63</b>

*APPENDIX 2*

***CERTIFICATES OF ANALYSIS***



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bvna.com/mining-laboratory-services](http://www.bvna.com/mining-laboratory-services)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Daithi Mac Gerailt  
Receiving Lab: Canada-Vancouver  
Received: October 24, 2022  
Analysis Start: November 30, 2022  
Report Date: December 10, 2022  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN22003192.1

## CLIENT JOB INFORMATION

Project: Spartan  
Shipment ID: SP-2022-01  
P.O. Number  
Number of Samples: 15

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	15	Crush, split and pulverize 250 g rock to 200 mesh			VAN
FA350-Au	3	50g Fire assay fusion Au by ICP-ES	50	Completed	VAN
AQ201	15	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

## ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0  
Canada

CC: Milo Mielniczuk  
Clayton Jones



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.

\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



**BUREAU VERITAS** MINERAL LABORATORIES  
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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0 Canada

**Project:** Spartan  
**Report Date:** December 10, 2022

**Page:** 2 of 2

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

**VAN22003192.1**

Method	WGHT	FA350	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1	
2010794	Rock	2.26	8	1.8	27.8	4.6	39	<0.1	10.1	0.5	40	1.03	52.0	<0.1	7.2	<0.1	<1	0.2	2.0	0.2	2
2010795	Rock	1.12		10.7	83.5	18.6	64	0.2	25.5	4.7	92	2.79	11.5	1.4	1.2	4.1	6	0.3	1.2	0.4	9
2010796	Rock	0.89		2.7	45.0	4.0	36	<0.1	20.0	1.0	67	0.81	10.8	0.3	0.7	0.2	2	0.2	0.1	<0.1	4
2010797	Rock	2.52	<2	1.1	30.5	184.3	47	1.0	13.3	1.7	89	0.81	<0.5	0.2	2.2	0.2	3	0.5	0.2	1.4	3
2010798	Rock	0.90		22.5	144.3	51.1	183	0.8	100.5	21.9	54	7.94	14.9	1.9	2.5	6.3	14	1.1	0.8	0.4	53
2010799	Rock	1.77		1.3	8.6	12.7	28	<0.1	6.9	1.4	86	0.49	<0.5	0.2	<0.5	0.2	4	0.4	<0.1	<0.1	3
2010800	Rock	1.15		9.3	58.6	3.2	105	0.3	26.4	4.6	94	2.42	<0.5	1.2	<0.5	1.3	6	1.0	<0.1	<0.1	17
2010801	Rock	1.22		0.6	6.1	4.9	26	<0.1	8.7	3.0	589	1.60	<0.5	<0.1	6.1	0.9	13	0.3	<0.1	0.1	3
2010802	Rock	1.36		3.5	31.2	4.5	87	<0.1	29.9	5.3	138	2.17	<0.5	0.3	1.7	4.3	6	0.1	<0.1	0.2	16
2010803	Rock	1.34		1.9	47.6	6.1	13	<0.1	22.9	6.2	107	1.12	2.7	0.2	0.9	0.2	3	0.1	0.1	0.1	4
2010804	Rock	1.84		4.2	47.2	33.8	139	0.3	24.7	3.6	48	2.80	74.6	1.4	4.8	2.9	8	0.2	1.4	<0.1	9
2010805	Rock	2.36	6	0.7	7.7	1.0	104	<0.1	7.6	3.9	285	1.24	3.9	<0.1	5.1	0.2	6	1.4	<0.1	<0.1	1
2010806	Rock	2.34		1.4	30.3	0.9	25	<0.1	19.4	5.2	117	1.57	1.6	0.4	6.1	0.2	8	0.2	0.3	<0.1	2
2010807	Rock	1.15		0.5	6.5	20.0	10	0.3	4.6	0.6	66	0.75	<0.5	0.5	2.7	1.6	5	<0.1	0.1	0.4	<1
2010810	Rock	1.20		25.4	71.5	33.8	257	0.4	39.7	7.4	198	4.72	0.5	1.8	0.7	5.0	7	0.8	0.2	0.3	34



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Project: Spartan  
Report Date: December 10, 2022

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

**VAN22003192.1**

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	0.01	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.5	0.2	
2010794	Rock	<0.01	0.008	<1	10	<0.01	2	<0.001	<1	0.03	0.005	<0.01	0.2	<0.01	0.1	<0.1	0.11	<1	8.2	<0.2
2010795	Rock	0.04	0.058	12	9	0.03	139	<0.001	2	0.35	0.005	0.23	0.3	<0.01	1.3	<0.1	0.12	<1	10.6	<0.2
2010796	Rock	0.02	0.021	<1	11	0.01	11	<0.001	<1	0.20	0.002	<0.01	0.1	<0.01	0.7	<0.1	<0.05	<1	0.6	<0.2
2010797	Rock	0.11	0.006	2	6	0.02	3	<0.001	<1	0.07	0.003	<0.01	0.1	<0.01	0.4	<0.1	0.28	<1	2.2	<0.2
2010798	Rock	0.15	0.148	6	31	0.14	41	0.001	<1	0.90	0.049	0.07	0.9	0.01	3.0	<0.1	2.71	3	21.0	<0.2
2010799	Rock	0.10	0.021	<1	5	0.01	11	<0.001	<1	0.05	0.003	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
2010800	Rock	0.07	0.052	3	13	0.07	33	<0.001	<1	0.30	0.007	0.07	0.3	<0.01	0.9	<0.1	0.43	<1	5.5	<0.2
2010801	Rock	0.53	0.044	3	8	0.10	22	<0.001	<1	0.27	0.013	0.06	<0.1	<0.01	1.1	<0.1	<0.05	<1	<0.5	<0.2
2010802	Rock	0.03	0.028	14	27	0.34	54	0.001	1	0.81	0.015	0.15	<0.1	<0.01	1.5	<0.1	<0.05	3	2.0	<0.2
2010803	Rock	0.07	0.019	<1	5	<0.01	11	<0.001	<1	0.05	0.002	0.03	0.1	<0.01	0.2	<0.1	0.48	<1	2.5	<0.2
2010804	Rock	0.02	0.093	10	15	0.02	62	<0.001	3	0.38	0.020	0.12	0.1	<0.01	1.3	<0.1	<0.05	<1	8.0	<0.2
2010805	Rock	0.64	0.014	1	5	0.06	16	<0.001	<1	0.05	0.003	0.03	<0.1	<0.01	1.4	<0.1	0.14	<1	0.9	<0.2
2010806	Rock	0.21	0.029	<1	9	0.06	8	<0.001	<1	0.05	0.003	0.02	<0.1	<0.01	0.3	<0.1	0.30	<1	3.5	<0.2
2010807	Rock	0.01	0.004	3	5	0.02	74	<0.001	<1	0.19	0.018	0.08	<0.1	<0.01	<0.1	<0.1	0.14	<1	1.3	<0.2
2010810	Rock	0.02	0.069	11	21	0.09	66	<0.001	<1	0.59	0.008	0.14	0.5	<0.01	1.2	0.1	<0.05	2	4.6	<0.2



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Project: Spartan  
Report Date: December 10, 2022

Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN22003192.1

Method	WGHT	FA350	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V		
Unit	kg	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.01	2	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	0.1		
Pulp Duplicates																						
2010797	Rock	2.52	<2	1.1	30.5	184.3	47	1.0	13.3	1.7	89	0.81	<0.5	0.2	2.2	0.2	3	0.5	0.2	1.4	3	
REP 2010797	QC			1.1	28.5	178.7	46	0.9	13.0	1.6	85	0.79	<0.5	0.2	<0.5	0.2	3	0.4	0.2	1.4	3	
Reference Materials																						
STD BVGEO01	Standard			9.9	4306.3	173.5	1678	2.4	157.1	24.2	694	3.66	115.5	3.2	191.2	12.9	53	5.8	2.6	22.6	73	
STD OREAS262	Standard			0.6	111.0	53.2	142	0.4	61.7	26.8	508	3.16	34.3	1.1	49.3	8.5	33	0.6	3.8	0.9	21	
STD OREASL13	Standard			1211																		
STD OXA187	Standard			75																		
STD OREASL13 Expected				1290																		
STD OXA187 Expected				80																		
STD BVGEO01 Expected				11.2	4415	187	1741	2.53	163	25	733	3.7	121	3.77	219	14.4	55	6.5	3.39	25.6	73	
STD OREAS262 Expected				0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	
BLK	Blank			<2																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	
Prep Wash																						
ROCK-VAN	Prep Blank			<2	2.1	5.4	0.8	27	<0.1	2.9	3.8	462	1.89	1.0	0.4	<0.5	2.1	24	<0.1	<0.1	<0.1	25
ROCK-VAN	Prep Blank			<2	1.2	3.0	0.8	26	<0.1	1.8	3.3	433	1.74	1.0	0.4	<0.5	2.0	23	<0.1	<0.1	<0.1	22



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

Project: Spartan  
Report Date: December 10, 2022

Page: 1 of 1 Part: 2 of 2

# QUALITY CONTROL REPORT

VAN22003192.1

Method		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte		Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		0.01	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																					
2010797	Rock	0.11	0.006	2	6	0.02	3	<0.001	<1	0.07	0.003	<0.01	0.1	<0.01	0.4	<0.1	0.28	<1	2.2	<0.2	
REP 2010797	QC	0.11	0.006	2	5	0.02	3	<0.001	<1	0.07	0.003	<0.01	0.1	<0.01	0.4	<0.1	0.27	<1	2.2	<0.2	
Reference Materials																					
STD BVGEO01	Standard	1.29	0.069	24	174	1.29	230	0.232	3	2.26	0.194	0.87	4.3	0.09	5.6	0.6	0.63	7	4.6	1.0	
STD OREAS262	Standard	2.85	0.038	14	41	1.15	225	0.003	4	1.22	0.068	0.29	0.2	0.15	3.0	0.4	0.26	4	0.5	0.2	
STD OREASL13	Standard																				
STD OXA187	Standard																				
STD OREASL13 Expected																					
STD OXA187 Expected																					
STD BVGEO01 Expected		1.3219	0.0727	25.9	187	1.2963	260	0.233	3.8	2.347	0.1924	0.89	5.3	0.1	5.97	0.62	0.6655	7.37	4.84	1.02	
STD OREAS262 Expected		2.98	0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	4.1	0.4	0.23	
BLK	Blank																				
BLK	Blank	<0.01	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																					
ROCK-VAN	Prep Blank	0.63	0.039	6	11	0.48	56	0.079	2	0.93	0.099	0.10	0.3	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2	
ROCK-VAN	Prep Blank	0.62	0.037	6	6	0.41	55	0.078	1	0.86	0.099	0.10	0.2	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2	



**BUREAU VERITAS** MINERAL LABORATORIES  
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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0 Canada

Submitted By: Daithi Mac Gerailt  
Receiving Lab: Canada-Vancouver  
Received: October 24, 2022  
Analysis Start: November 03, 2022  
Report Date: November 30, 2022  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN22003193.1

## CLIENT JOB INFORMATION

Project: Spartan  
Shipment ID: SP-2022-01  
P.O. Number  
Number of Samples: 3

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	3	Dry at 60C sieve 100g to -80 mesh			VAN
AQ200	3	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SVRJT	3	Save all or part of Soil Reject			VAN

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 days

## ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0  
Canada

CC: Milo Mielniczuk  
Clayton Jones

  
\_\_\_\_\_  
Martin Wong  
Data Validation Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0 Canada

Project: Spartan  
Report Date: November 30, 2022

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

**VAN22003193.1**

Method	Analyte	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BBS-01	Soil	50.7	210.6	105.2	279	1.1	121.5	26.2	885	6.97	78.3	2.5	21.1	3.1	22	1.6	2.0	2.3	24	0.06	0.132
BBS-02	Soil	41.0	45.6	47.1	224	0.4	46.1	8.4	168	3.77	115.2	1.6	49.8	5.2	24	0.4	2.8	0.7	15	0.04	0.086
BBS-03	Soil	21.8	193.0	16.4	316	0.4	158.0	59.8	1912	12.02	85.3	2.8	568.8	3.9	15	7.3	1.4	1.1	21	0.05	0.219



**BUREAU VERITAS** MINERAL LABORATORIES  
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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Druid Exploration**  
Box 1485  
Dawson City Yukon Y0B 1G0 Canada

Project: Spartan  
Report Date: November 30, 2022

Page: 2 of 2

Part: 2 of 2

# CERTIFICATE OF ANALYSIS

**VAN22003193.1**

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
BBS-01	Soil	14	22	0.20	67	0.002	<20	1.14	0.003	0.05	0.4	0.06	3.1	0.1	<0.05	2	10.2	0.4
BBS-02	Soil	22	7	0.08	112	<0.001	<20	0.65	0.005	0.06	0.3	0.06	2.8	0.2	<0.05	<1	8.3	0.3
BBS-03	Soil	10	12	0.16	30	0.003	<20	0.89	0.002	0.02	0.2	0.05	6.0	<0.1	<0.05	1	19.6	0.4



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Project: Spartan  
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Page: 1 of 1

Part: 1 of 2

# QUALITY CONTROL REPORT

VAN22003193.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Reference Materials																					
STD DS11	Standard	13.1	141.2	131.2	330	1.8	78.6	13.1	1012	3.05	41.1	2.4	44.2	7.3	63	2.3	7.8	11.1	49	1.02	0.067
STD OREAS262	Standard	0.7	118.6	54.3	155	0.5	67.7	28.0	546	3.41	37.5	1.1	70.8	8.7	35	0.6	4.3	0.9	22	3.08	0.041
STD DS11 Expected		13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	7.2	12.2	50	1.063	0.0701
STD OREAS262 Expected		0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	3.39	1.03	22.5	2.98	0.04
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Page: 1 of 1

Part: 2 of 2

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
Reference Materials																		
STD DS11 Standard	16	58	0.83	333	0.087	<20	1.11	0.069	0.38	2.8	0.27	3.0	4.8	0.30	5	2.2	4.5	
STD OREAS262 Standard	15	43	1.20	236	0.003	<20	1.21	0.066	0.30	0.1	0.16	3.1	0.5	0.31	4	0.6	0.3	
STD DS11 Expected	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	4.56	
STD OREAS262 Expected	15.9	41.7	1.17	248	0.003		1.3	0.071	0.312	0.13	0.17	3.24	0.47	0.269	3.9	0.4	0.23	
BLK Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	