BIG RAY EXPLORATION PROJECT

YMEP: Grassroots Module Final Technical Report

By: Chris Arsenault

January 30th, 2024

Dates of Field Work: August 22nd to 26th, 2023

Map Sheet 115J-08

Latitudes: 62.4309º to 62.413º N

Longitudes: 138.449º to 138.494º W

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Introduction

The following technical report for YMEP grant 23-041 summarizes the 5 days of field work conducted on project area. The following report summarizes the geological environment, details of the work conducted, expenditures, and rationale outlining the economic potential of the project site. Regionally the project is found within the Dawson Range Gold District and is situated approximately 35 km south of Western Gold & Copper's Casino deposit (14.5 million ounces gold, 7.6 billion lbs copper, 113.5 million oz silver).

The project area is situated within the northwest trending Dawson Range gold and copper belt. Significant deposits include Casino Mining Corporation's Casino porphyry copper-gold-molybdenum deposit, the Klaza deposit of Rockhaven Resources (a transitional variant of an epithermal system), and Goldcorp's Coffee orogenic gold deposit. Mineralization in the region is commonly associated with Late Cretaceous intrusions (primarily small plugs and breccia bodies of the Late Cretaceous Casino suite and, to a lesser extent, the Prospector Mountain suite), older metamorphosed basement complex of the Yukon-Tanana terrane, and/or the Mid Cretaceous Dawson Range batholith (Whitehorse suite).

At Big Ray, outcrop consists of less than 1% of the total area, while blocky talus and weathered soils comprised much of the surficial terrain. The topography consists of ridges descending into moderate to steep slopes into a 200m (at its widest) valley bottom.

Field work consisted of prospecting over 5 days between August 27th to August 31st by geologist Chris Arsenault and local prospector Benoit Fabbi who assisted in sample collection.

45 rock samples and 25 soil samples were taken, and 24 quartz claims were staked (Big Ray 25-48). Traverses were planned based on previously discovered geochemical anomalies, geophysical anomalies in the aeromagnetic data, and to prospect areas with no previous field work completed.

Field plans were based on expanding on previous sampling from YMEP programs from 2020 to 2022 where anomalous copper, gold, silver, and molybdenum showings were discovered. 2023 grab sample highlights included sample E810506 assaying 1.12 g/t Au, 16 g/t Ag and 2070 ppm Cu, and sample E810538 assaying 4540 ppm Cu. Peak silver values in grab samples reached a high of 53.6 g/t, and molybdenum values up to 1015 ppm.

Rock samples ranged from 0.75kg to 4kg for samples with more mineralization. Soil samples taken with a Dutch auger at "C" horizon depths and averaged around 0.4kg in weight.

Assays were prepared at ALS Minerals of Whitehorse, Yukon. Rock and soil samples were analysed for gold by fire assay and ICP & four acid/ICP multi element analysis at ALS is Vancouver.

Location & Access

The project is located approximately 35 km south of Western Copper & Gold's Casino project which includes a public airstrip. Access to the Big Ray property is through accessing the public airstrip at the Casino project and transporting crew and gear with a helicopter south for 10 minutes to the Big Ray claims.

The Big Ray claims to be approximately 80 km west of the Klondike Highway but will have increased access to roads once the road to Western Copper & Gold's Casino deposit is completed in the coming years.

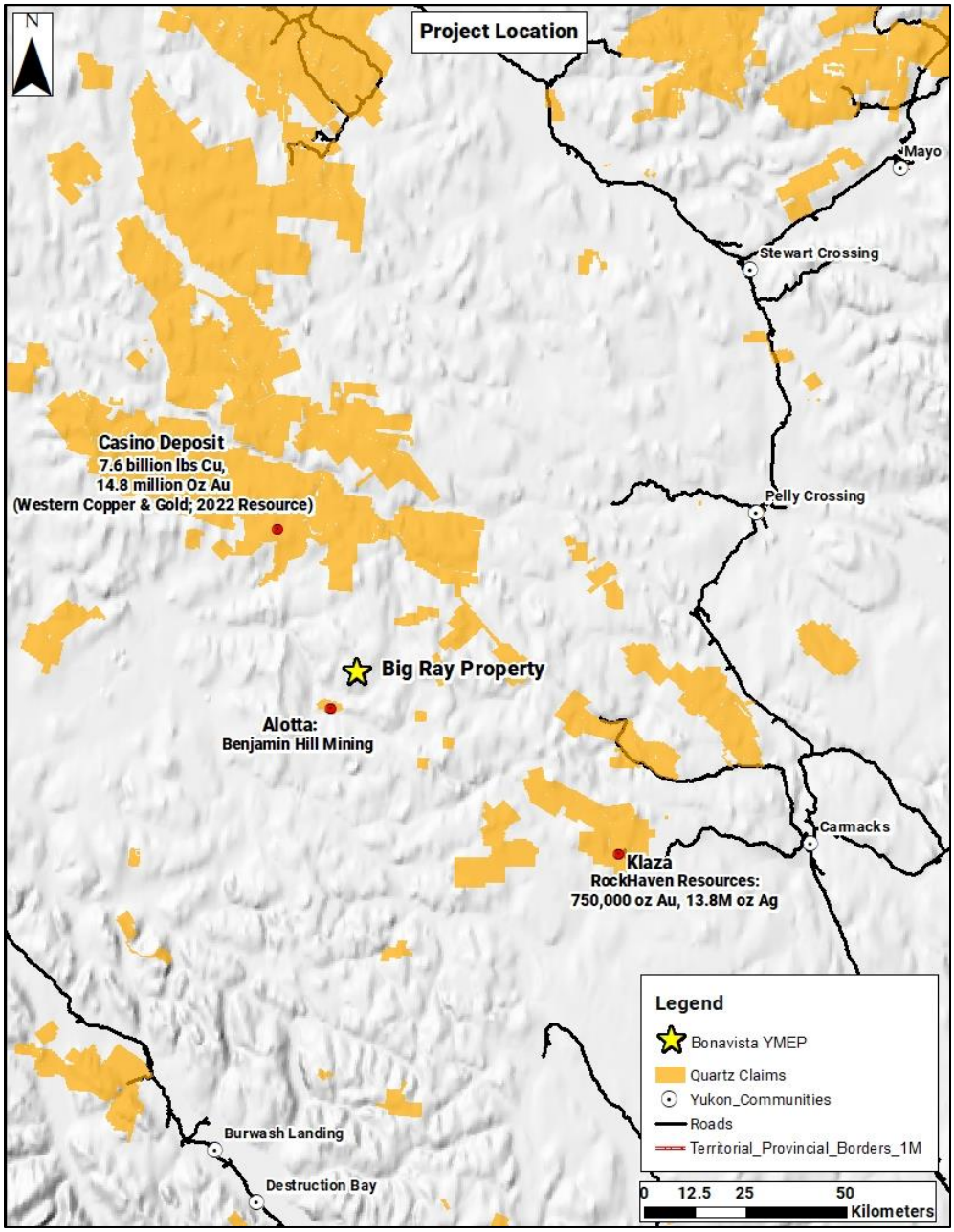

Figure 1: Project Location

Historical Work

Table 1: 1986 Regional stream sediment sample

Area	Sample ID	Map 250k	Map 50k	Year	UTM Zone	Easting	Northing	Lith.	Au ppb	Ag ppb	Cu ppm
STEVENSON RIDGE	115J863399	115J	115J08	1986	7	629675	6927933	mKW	131.7	123	14.85

The Geological Survey of Canada conducted stream sediment and water surveys in the Yukon between 1976 and 2006. The total number of samples in the dataset is 16,643, and sample ID115J863399 is found within the 99th percentile for gold value in the dataset.

3.2 Somme Minfile

YGS Occurrence Number 115J 004, NTS Map sheet 115J08

Approximately 5 kilometers southeast of the project area there was historical work completed by Archer Cathro on claims previously named the “Tom” claims, while called in “Somme Property” within the assessment repot. A mineral occurrence is located here known as the “Somme” (YGS Minfile: 155J 004). The area is underlain by the same Dawson Range Batholith granodiorite and is considered a porphyry Cu-Mo-Au deposit type.

3.3 Mim Minfile

YGS Occurrence Number 115J003, NTS Map sheet 115J07

*W*In the 1970’s Atlas Exploration Ltd staked claims in the area to follow-up on the anomalous copper and molybdenum. They established a grid and conducted soil geochemical sampling and geological mapping. Their work located some anomalous values of copper and molybdenum in an alaskite stock and found traces of molybdenite in quartz veins. The occurrence is documented in the Yukon Minfile as the MIM showing, Minfile Number 115J 003. They did not analyze their samples for gold.

3.4 2020 to 2022 YMEP Programs

YMEP programs from 2020 to 2022 targeted the ridges and basins which drain into the location where the historic silt sample assaying 131.7 ppb is situated. Prospecting and soil sampling resulted in 176 rock samples and 237 soil samples, and 7 silt samples Cu-Au-Ag-Mo anomalies were discovered dominantly through prospecting.

Regional Geology

The Big Ray Project lies within Yukon-Tanana terrane, a continental arc that developed along the ancient Pacific margin of North America from Late Devonian to Permian time, and is situated between the Tintina Fault, about 150 km to the northeast, and the Denali Fault, 100 km to the southwest. Both faults are steeply dipping transcurrent structures with hundreds of kilometers of dextral strike slip offset.

The Stevenson Ridge (formerly Snag) map sheet (NTS 115J) was mapped at 1:253,440 scale by the Geological Survey of Canada in the early 1970's *(Tempelman-Kluit, 1974)* and the Colorado Creek map sheet (115 J/10) at 1:50,000 in 1986 by Payne et al. (1987). Gordey and Makepeace produced a Yukon-wide geological compilation in 1999, with a revision in 2003. In 2011 to 2012 the MDRU investigated projects within the Dawson Range and released their findings in 2013 *(Allan et al., 2013 and 2012)*. The Geological Survey of Canada completed 1:100,000 scale mapping through the area in 2012 *(Ryan et al., 2013a & b)*. The Yukon Geological Survey ("YGS") released an update of the Yukon compilation map with revised nomenclature *(Colpron et al., 2016),* recently updated in April 2018 *(YGS, 2018)*. The regional geology of the area is primarily summarized from Ryan et al. (2013), Allan et al. (2013) and YGS (2018).

The early Late Cretaceous Casino plutonic suite (**LKC**) hosting the Casino deposit, was emplaced at 79 to 74 Ma and typically consist of generally small intermediate stocks and related felsic quartz porphyry, quartz-feldspar porphyry or feldspar porphyry dykes, sills and small plugs. The Casino suite is intimately associated with porphyry copper deposits and many precious metal vein deposits in the Dawson Range. No age dating of rocks at Big Ray

Dawson Range Batholith - mKgW

Granodiorite

The granodiorite is mineralogically composed of white feldspar, biotite, black to green amphiboles, trace epidote, traces of disseminated pyrite, and weak to strong magnetite alteration. Porphyritic textures of varying grain sizes increasing to the south where potassic alteration increases.

Monzonite

The granodiorite transitions to a more potassic altered and finer grained monzonite. Parallel and cross-cutting Qtz-Kspar veins with salvages of millimeter wide magnetite bands (B- Type Qtz veins) are found on talus slopes with anomalous Cu-Mo mineralization. Outcrop exposure is poor, so the contacts of the adjoining lithologies is not well documented. Mineral assemblages consist of potassium feldspar, actinolite, quartz, and minor magnetite.

Intermediate "Crowded" Porphyry

The most significant Cu-Au-Mo-Ag anomalies have occurred within the intermediate crowded porphyry or in areas proximal to the contact with monzonite & granodiorite lithologies. The unit typically consists of a greyish green matrix with up to 1cm phenocrysts of albite, actinolite, and minor orthoclase. Some feldspar phenocrysts show a faint brecciated texture. 1m wide quartz veins are present with finer grained chilled margins of mafic composition and increased in silica content.

The most northern area of the claims hosts a more mafic porphyritic unit consisting of a fine-grained green matrix with coarse white feldspar phenocrysts (plagioclase), dark green to black amphiboles, and trace amounts of magnetite. Grab samples of this unit showed a weak to moderate magnetic response.

Interestingly from a porphyry deposit perspective, the creek bottoms below this unit showed scattered amounts of boulders with semi massive epidote altered fine grained mafic intrusive rock with trace amounts of chalcopyrite, pyrrhotite, and pyrite. Grossular garnet in the north may represent propylitic on the margins of this unit.

Upper Carmacks Group – uKC1

The Carmacks group is a widespread volcanic series characterized by localized thick lower units of andesitic tuffs and breccias and succeeded by an upper unit of extensive basaltic flows The Carmacks group had been interpreted previously as having formed in a subduction-related arc or trans-tensional pull-apart environment.

Field mapping to the eastern portion of the project area identified basalt which likely belongs to the Upper Carmacks Group.

Rhyolite Creek – PRC5

The center of the claim block there is an exposure of the Rhyolite Creek, a Cenozoic aged rhyolite with a beige fine-grained matrix with coarser glassy bombs of silica and feldspathic phenocrysts. No significant mineralization.

Intermediate Dyke – Unknown Assemblage

The western edge of the 2022 field traverses included mapping a intermediate dyke, grey in colour with 0.5% disseminated pyrite, albite, and amphiboles. The unit is approximately 50m wide and extends down the mountain slope. No significant mineralization.

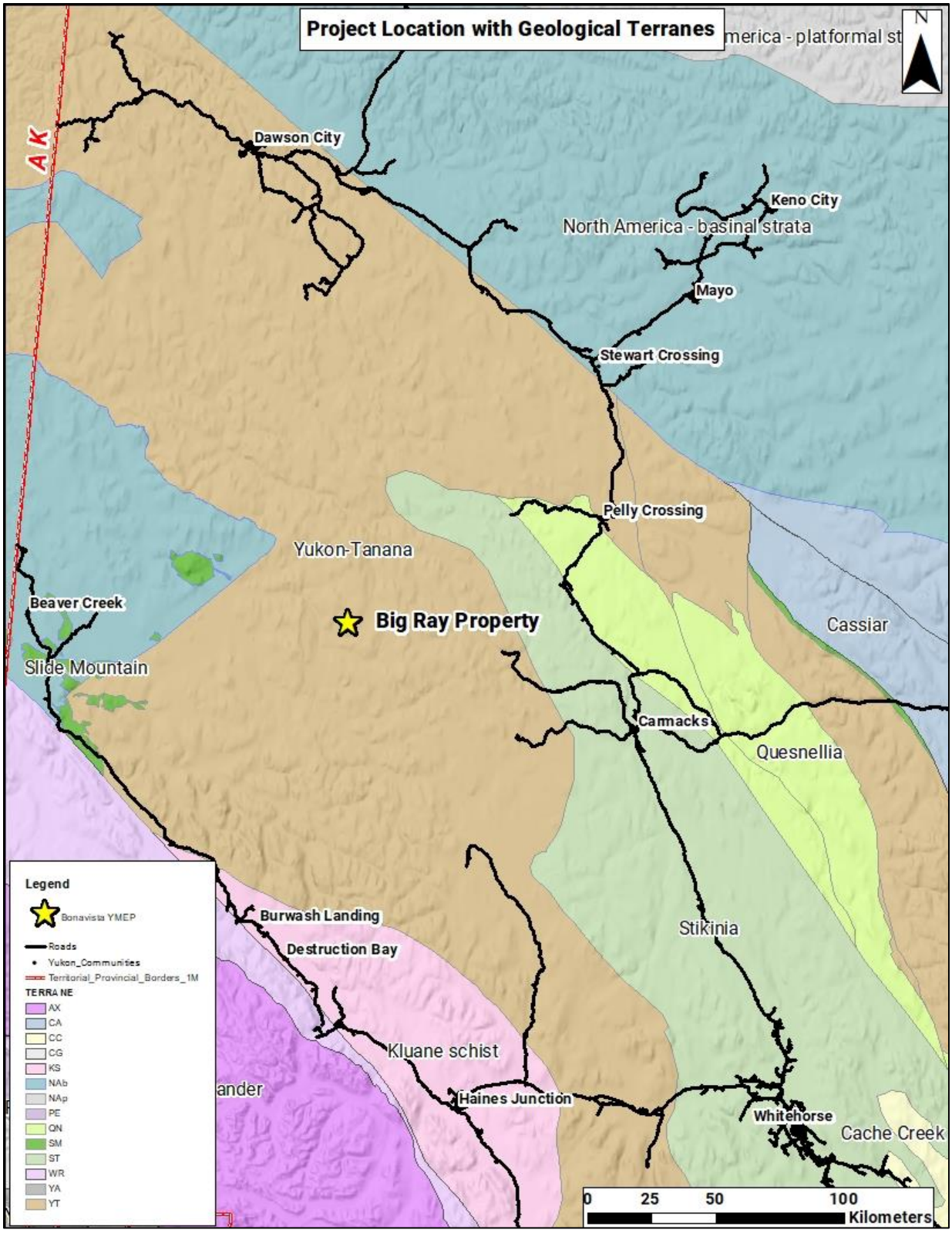

Figure 2: Geological Terranes

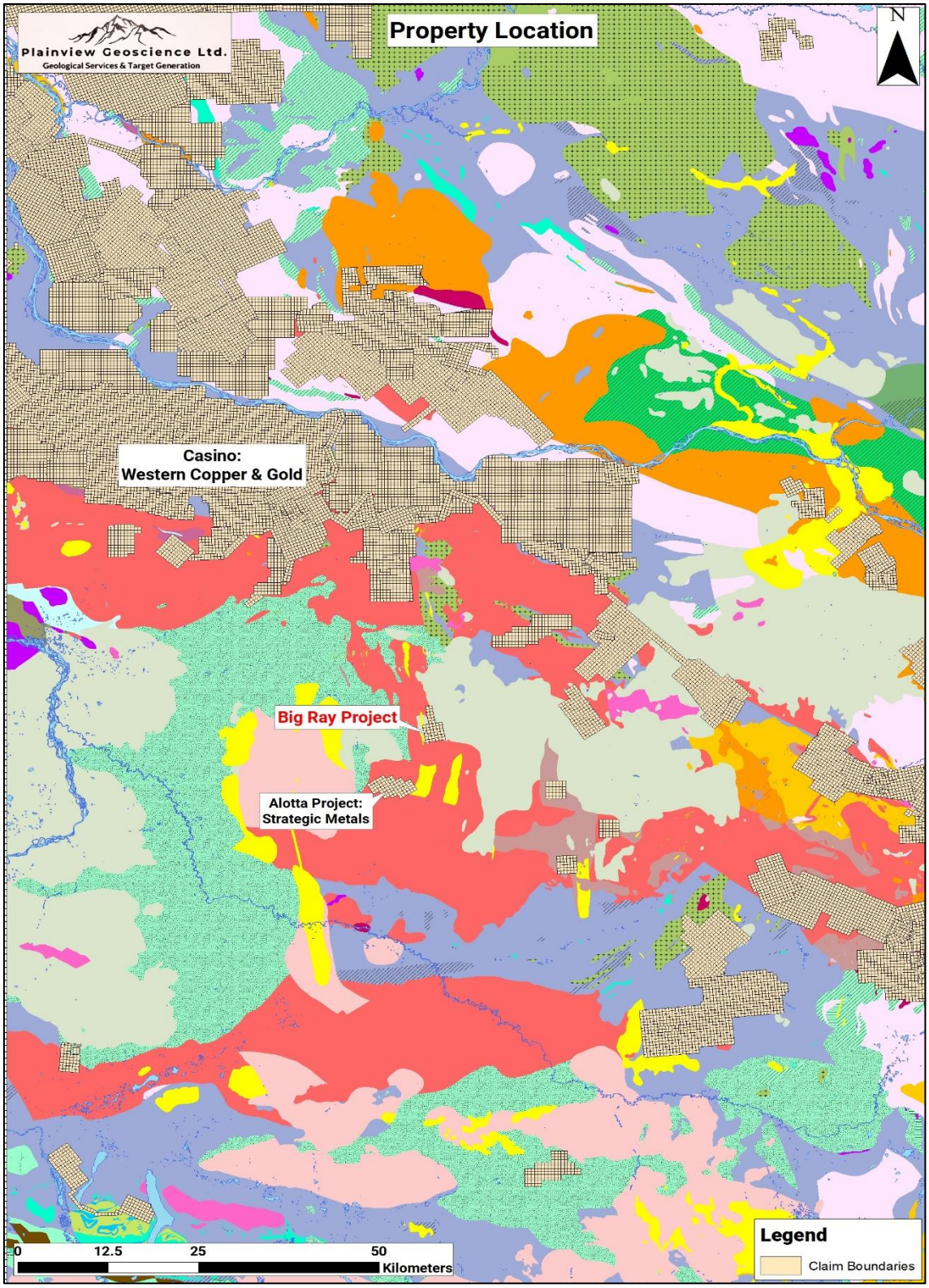

Figure 3: Project Location

Figure 4: Intermediate Porphyry: (Left) a grab sample of the intermediate "crowded" porphyry with coarse phenocrysts of albite, minor orthoclase, and actinolite. (Right) Sample E810535 assayed 1015 ppm Mo. Found within intermediate composition of weakly foliated porphyry.

Figure 5: Monzonite & Propylitic Alteration: Two samples from the northern portion of the Big Ray claim block. (Left) Monzonite with cm-scale black bands of magnetite within quartz & kspar rich matrix. (Right) Local float showing significant epidote alteration with disseminated pyrrhotite. No significant economic grades.

Results

The 2023 field program resulted in 45 grab samples and 25 soil samples collected between geologist Chris Arsenault and prospector Benoit Fabbi between August 23rd to 26th 2024. Rock samples ranged from 0.75kg to 4kg and were collected based on their potential for economic grades and lithological mapping.

Rock samples were sent to ALS in Whitehorse for preparation before being analyzed at ALS in Vancouver. Samples were crushed, split, and pulverized to a 250g sample and assayed for gold and 36 elements with aqua regia ICP analysis.

Soil samples were sent to ALS in Whitehorse for preparation before being analyzed at ALS in Vancouver. Soils were dried and sieved to 80-mesh (180 micron) and analyzed using a 36-element aqua regia ICP analysis and gold receiving a 30g fire assay ICP analysis.

Prospecting & Mapping

Prospecting plans were based both on previous anomalies discovered through field work conducted between 2020 & 2022, magnetic anomalies, contacts found through public air-magnetics data, and in untested areas with no historical sampling.

Samples were collected based on the potential for economic grades in Cu, Au, Ag, and Mo. The property consists of <1% outcrop and ground cover consist of both locally derived rock talus and moss/soil cover. Samples were collected with an average weight of roughly 1kg per sample to ensure for accurate representations of the local rock.

Sample E810508 was a float sample of quartz found along strike of a quartz vein discovered in 2022, and assayed 1.11 g/t Au, 16.2 g/t Ag, 2070 ppm Cu, and 1005 ppm Bi. Parallel sets of quartz veins are found in the area and extend with strike lengths over 500m. Gold is strongly associated with bismuth and silver and weakly correlated to copper and molybdenum values. The highest assay in copper was in sample E810517 assaying 4540 ppm Cu, 2.9 g.t Ag, and low gold and molybdenum values.

Sample E810503 which assayed 0.4 g/t Au, 53.6 g/t Ag and 4110 ppm Bi was a float sample in a newly discovered zone which is 350m east of copper showings originally discovered in 2020.

Prospecting occurred in conjunction with mapping and claim staking. Samples were logged with emphasis on mineralization, alteration, and lithological changes.

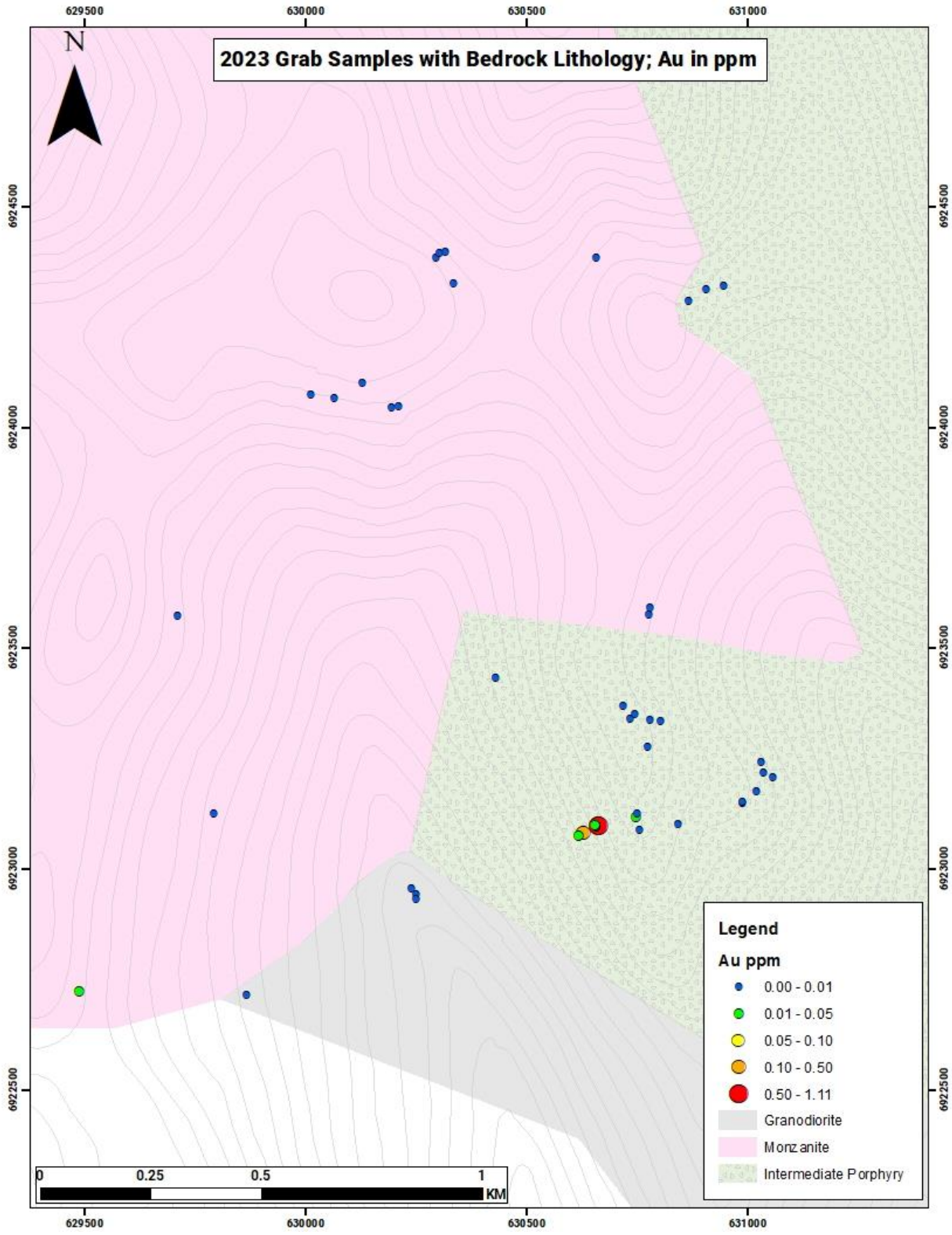

Figure 6: 2023 Grab Samples; Copper in ppm

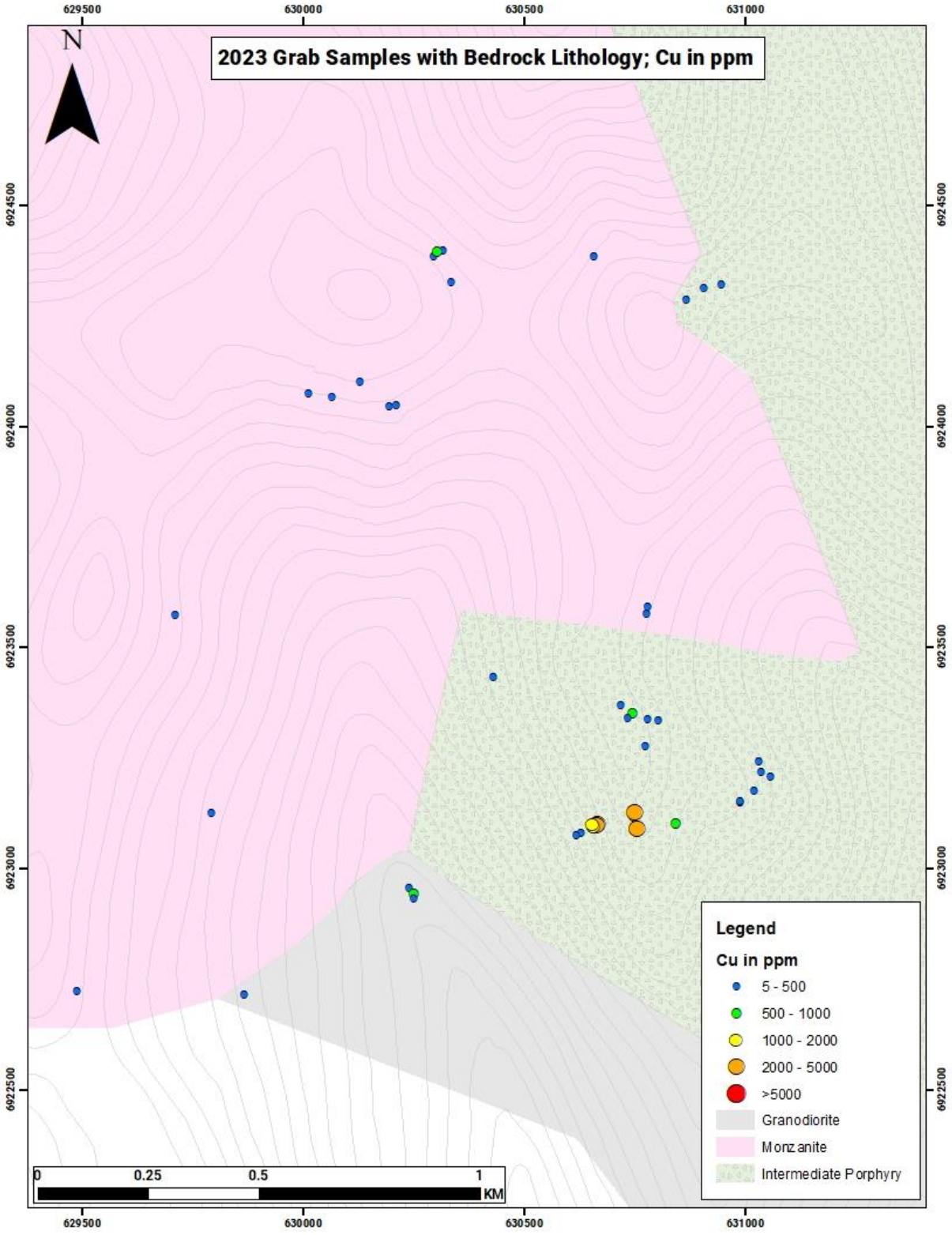

Figure 7: 2023 Grab Samples; Gold in ppm

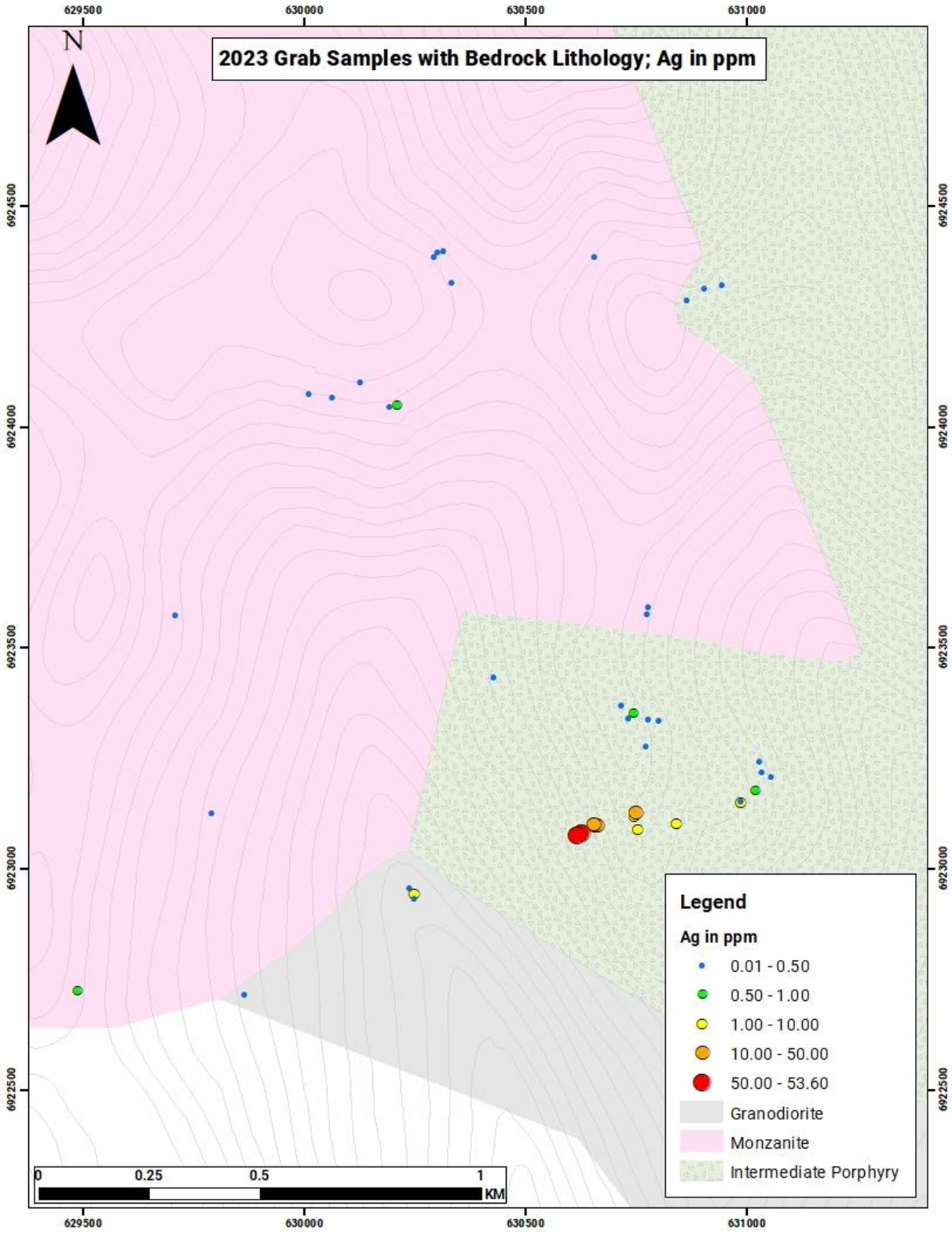

Figure 8: 2023 Grab Samples; Silver in ppm

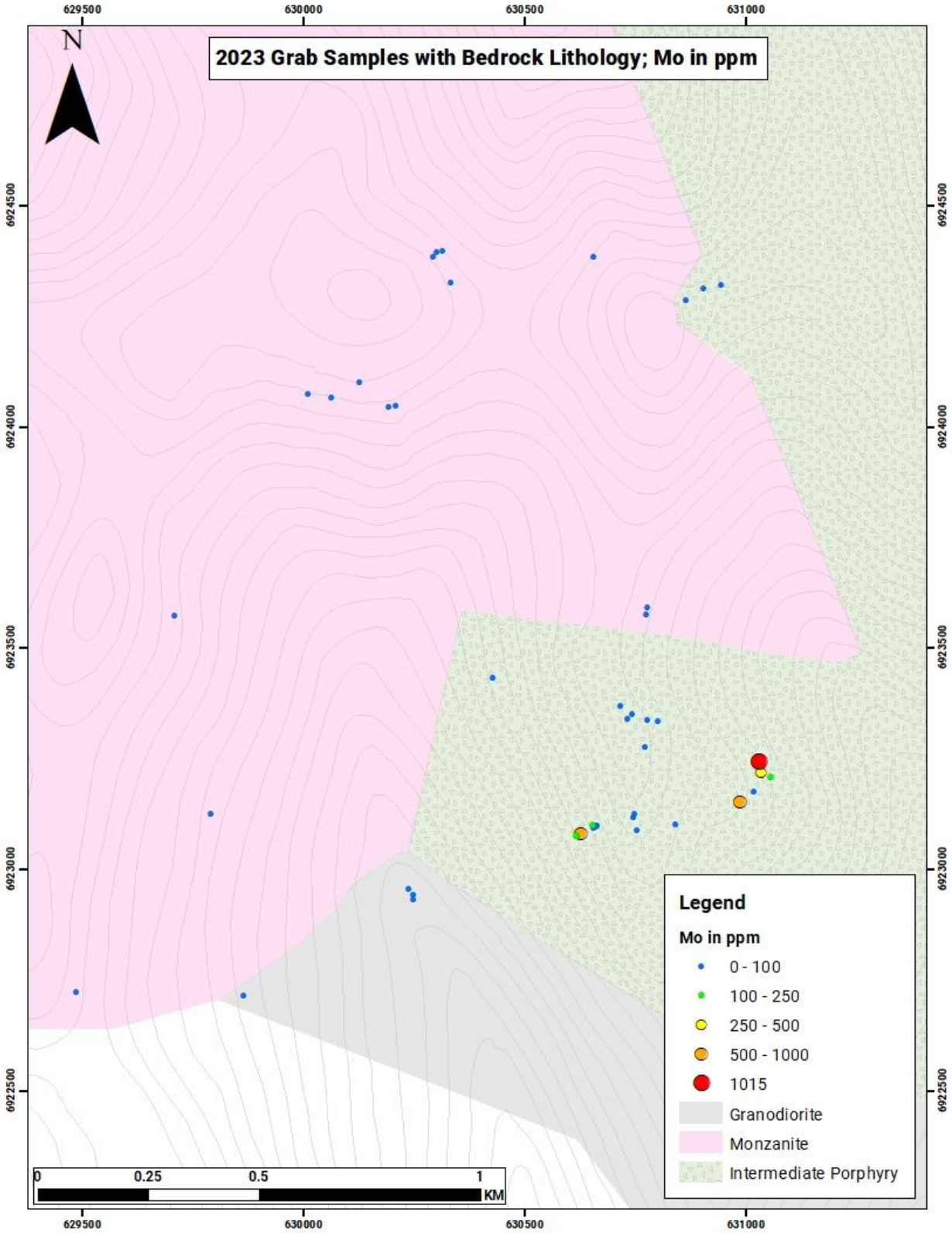

Figure 9: 2023 Grab Samples; Molybdenum in ppm

Soil Sampling

25 soil samples were collected using a Dutch soil auger along contours below areas where mineralization was observed in grab samples. Soils were collected from the “C” horizon of the soil profile and effort was made to reach the deepest possible depths for sample collection. The area is unglaciated, so soil responses are representative of local bedrock, with some movement of soils being possible from colluvium.

All soils were screened with a -80-sieve mesh size and assayed for gold and multi element fire assay.

Soils were planned in the field based on observations from prospecting and known anomalies discovered in previous years. The best results came from the southern end of the claims where contour soil sampling east of a Cu-Ag-Au-Mo quartz vein sets produced anomalous Cu-Ag-Mo values. Six soil samples assayed over 100 ppm Cu and 2 assayed over 250 ppm Cu. Sample ST067861 assayed 270 ppm Cu, 34 ppm Mo, 1170 ppm Mn, 126 ppm Zn with weak values for Au/Ag. The anomalies east of the quartz veining will require more soil sampling to better define the target.

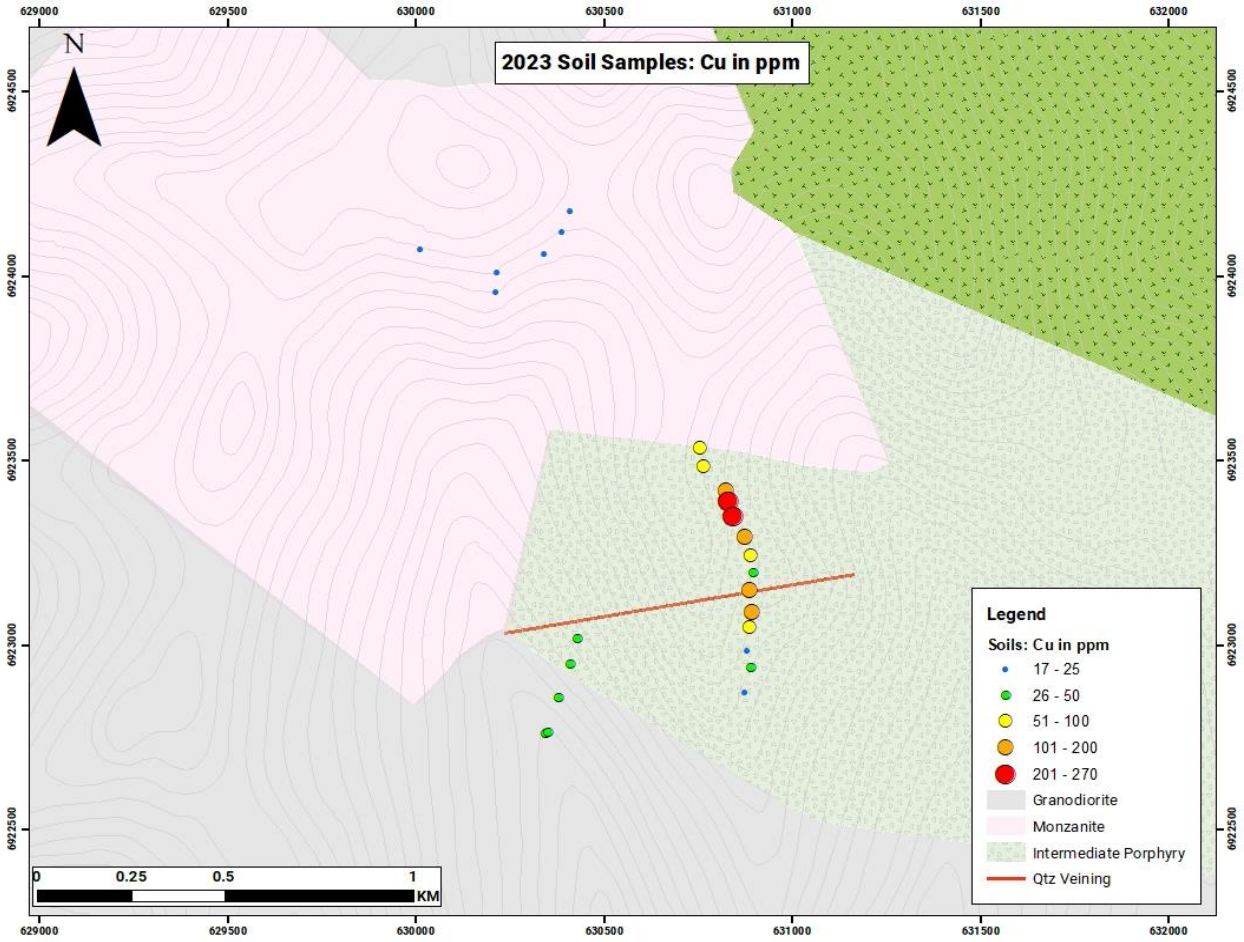

Figure 10: 2023 Soils, Cu in ppm

Claim Staking

An additional 24 claims were staked in 2023. They were staked based on covering potential extensions of mineralized anomalies found in previous years and to cover geophysical targets.

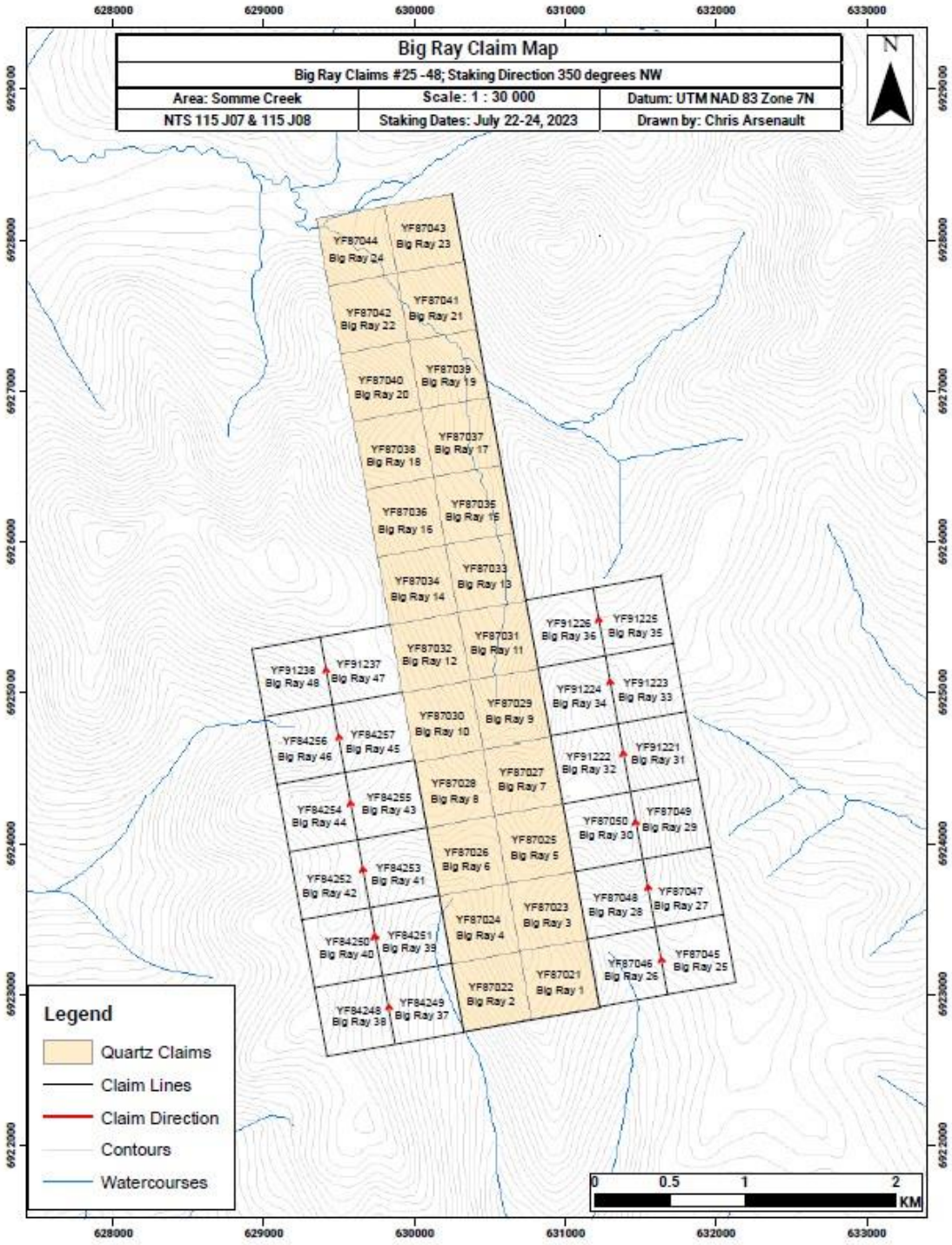

Figure 11: 2023 Claims Staked

Expenses

The table below outlines expenses for the 2023 field program. The site was accessed by flying two crew members on a fixed wing airplane headed for the Casino airstrip. The plane was scheduled to fly crew and supplies to Western Copper & Gold camp, and we were not charged for the seats.

We were able to hire the Capital Helicopters A-Star from the Casino camp to the Big Ray claims and left for 5 days. There were no morning setouts, and all field traverses were done on foot.

Table 2: 2023 Field Expenses

Expenses	
Item	**Cost**
Rock Assays	$2,509.70
Soil Assays	$1,216.10
Helicopter	$3,614.63
Staking, field supplies	$1,144.01
Wages	$2,250.00
Total	$10,734.44

Conclusions & Recommendations:

The Big Ray project represents a newly discovered calk-alkaline porphyry in a favourable geological setting. The property consists of 48 mineral claims which covers 1000 Ha within the Dawson Range.

Located in similar geological setting as the Casino Deposit consisting of several Mesozoic intrusive phases. This can be concluded with the following interpretations:

- Dawson range
- Same Geological Era
- Composition and texture

Within the most mineralized area on the south end of the claims, the intrusive phase consists mainly of intermediate composition with porphyritic textures and hydrothermal alteration in the form of quartz vein sets with anomalous Cu-Ag-Mo-Au-Bi. Showings were discovered through prospecting, but further work should include intensive soil sampling to better understand the extents of the anomalies. The Cu-Ag-Au showings to the north are within a monzonite granite where B-Type veins where narrow quartz veins with pervasive k-spar displays salvaged bands of magnetite and minor amounts of chalcopyrite.

2023 prospecting expanded on previous anomalies discovered through 2020-2022. The most anomalous samples were found along strike length of the hydrothermal quartz veins. The eastern extension of the quartz veins shows an increase in molybdenum values where the intermediate porphyry becomes increasingly fine grained with evidence of cross-cutting quartz veins carrying coarse blebs of molybdenum and minor chalcopyrite.

Grab & soil assays to date have shown a strong correlation of Au-Ag with Bi. Strong correlations also exist between Cu & Mo. These trends should be considered when planning future field plans. Furthermore, analyzing alteration zonation in the area would be best conducted with a terra-spec instrument on both rocks and soils.

To date, there has been no evidence of faulting in the area although there is an inferred fault trending north-south which runs to the west of the claims and extends north towards Rude Creek.

Further fieldwork should include extensive soil sampling with up to 200m spaced soil lines and 50m spaced sample sites, and tighter spacings around areas with anomalous grab and soil samples. Highest priority would include areas surrounding the known Cu-Au-Ag-Mo anomalies and extend into areas with no previous sampling.

A ground magnetics survey would be a relatively cheap and useful survey for targeting going forward. A radiometric survey could also be effective, although the presence of potassium rich minerals in multiple lithologies across the property could make differentiating the anomalies difficult.

The property is currently available for option.

Figure 12: Sample E810505 assayed 3730 ppm Cu, 7.1 ppm Ag, 319 ppm Pb.

Figure 13: Quartz veining in outcrop with chalcopyrite, malachite, molybdenite, bismuthinite, galena, and strong FeO alteration within an intermediate porphyry

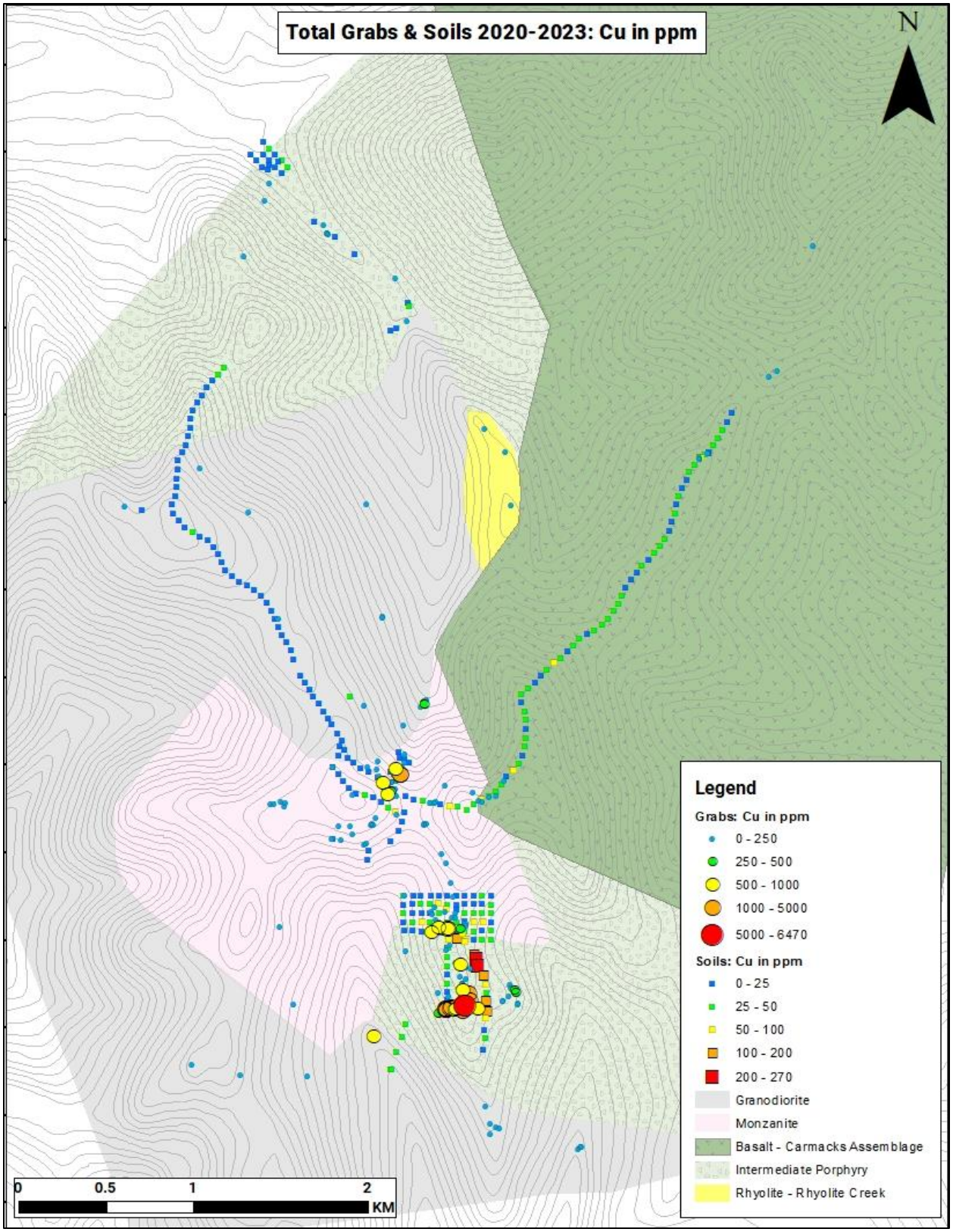

Figure 14: Total Grabs & Soils; Cu in ppm

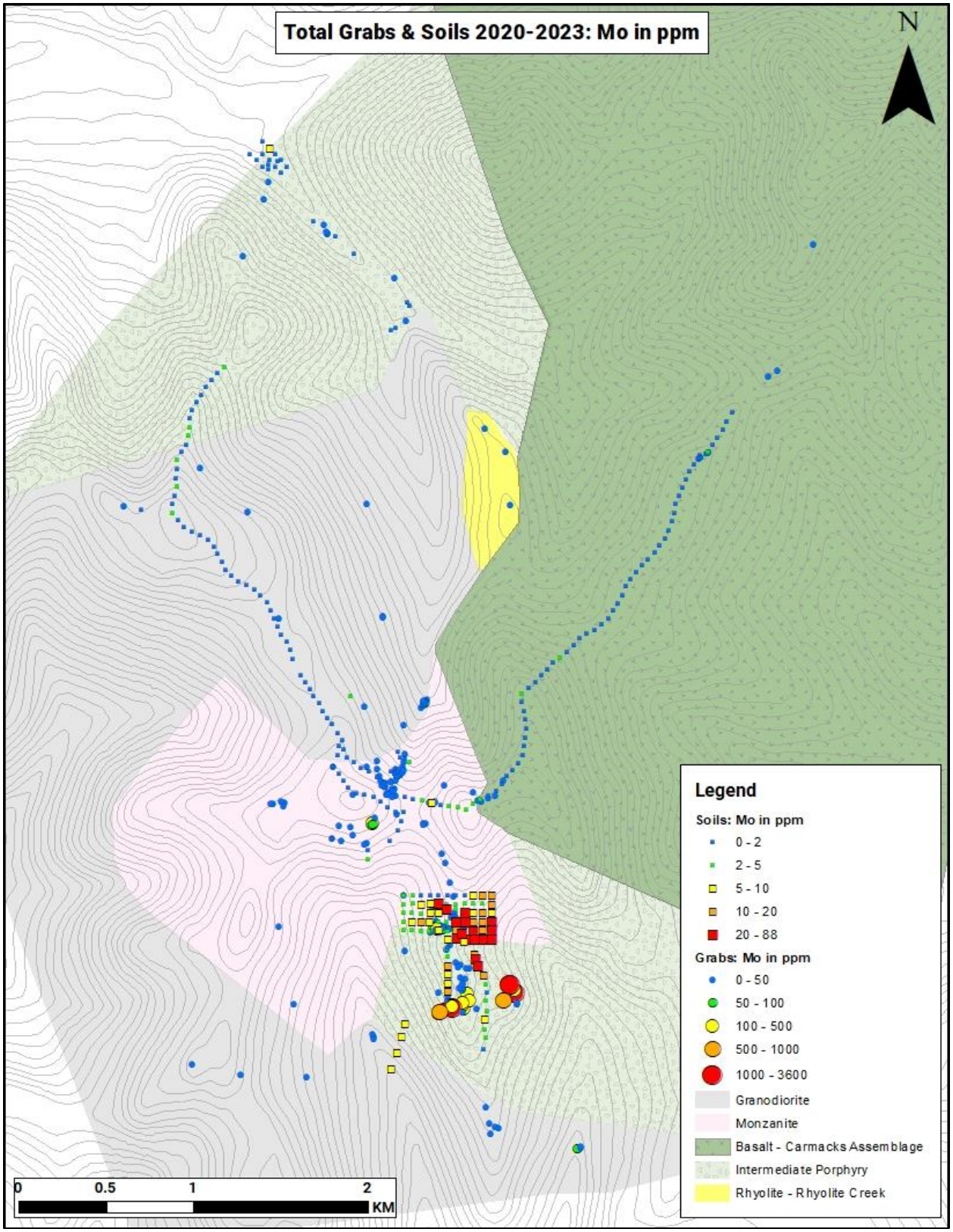

Figure 15: Total Grabs & Soils; Mo in ppm

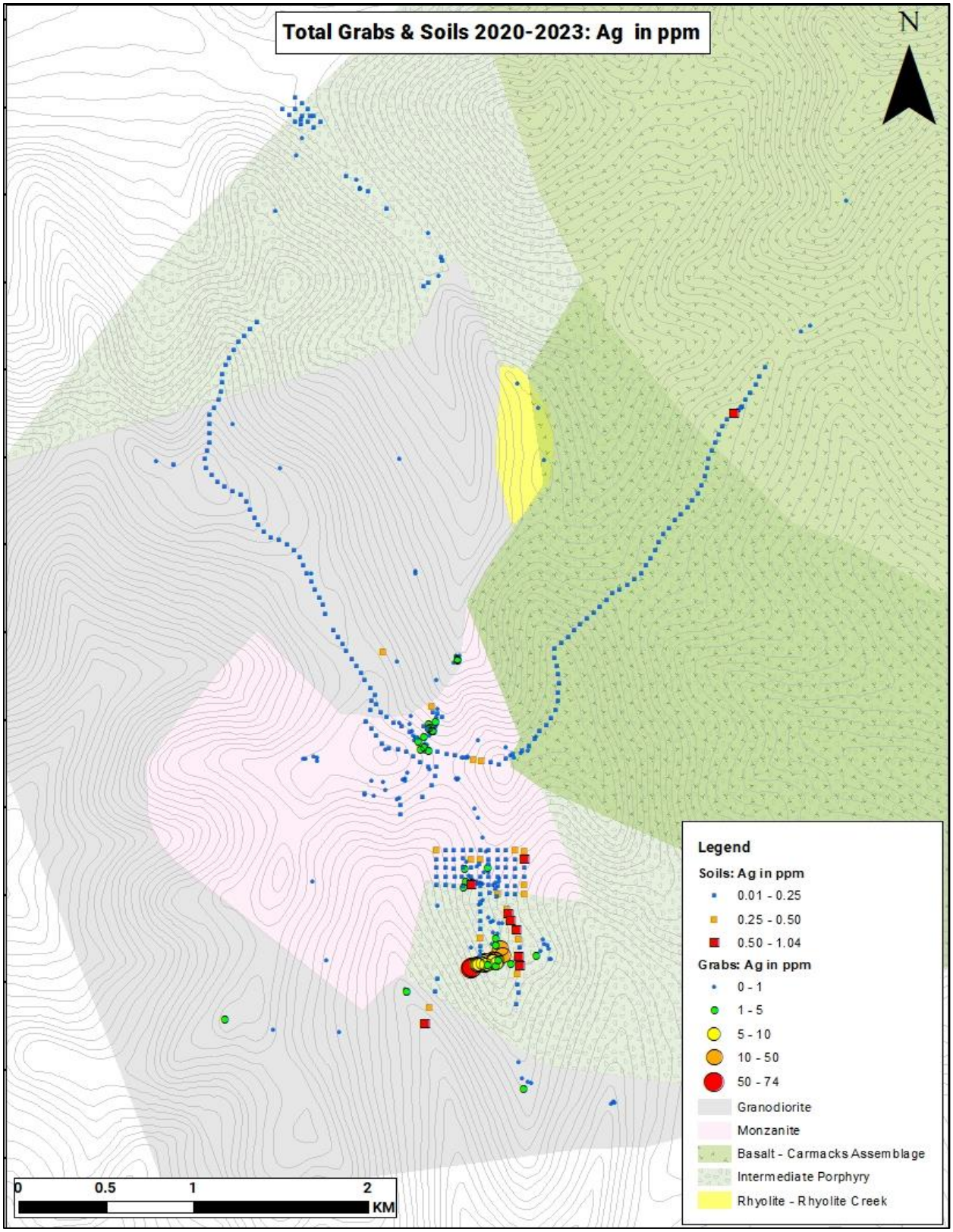

Figure 16: Total Grabs & Soils; Ag in ppm

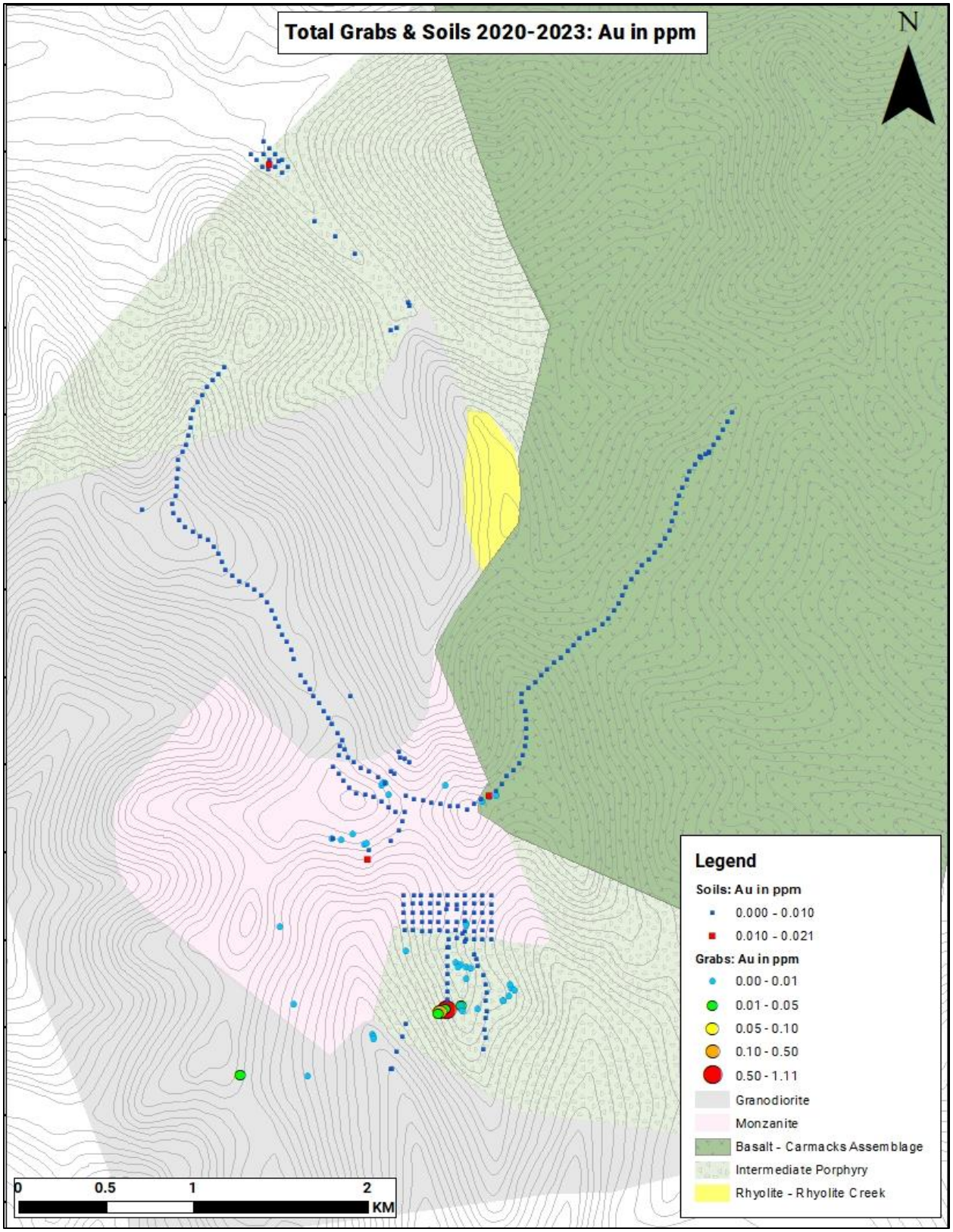

Figure 17: Total Grabs & Soils; Au in ppm

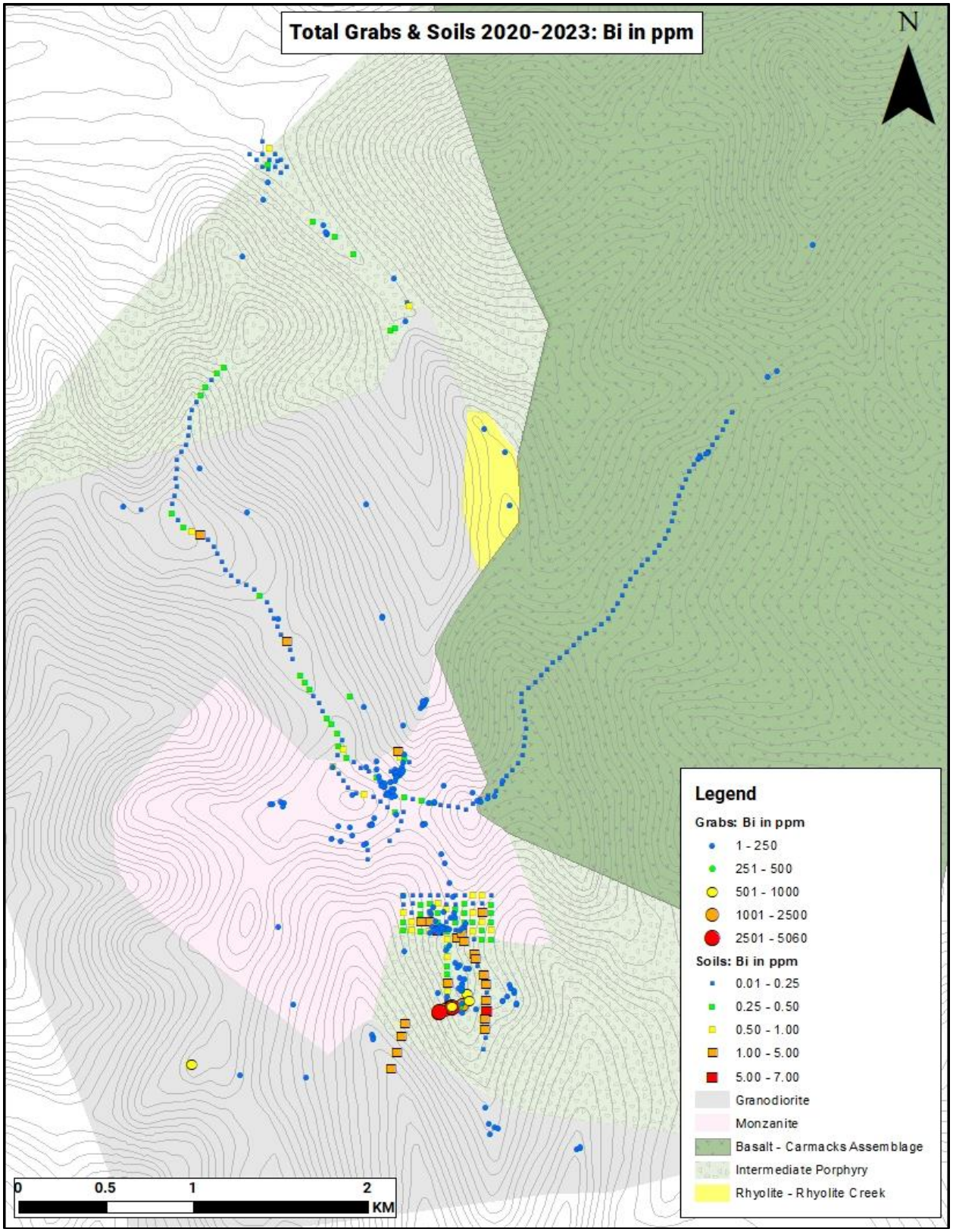

Figure 18: Total Grabs & Soils; Bi in ppm

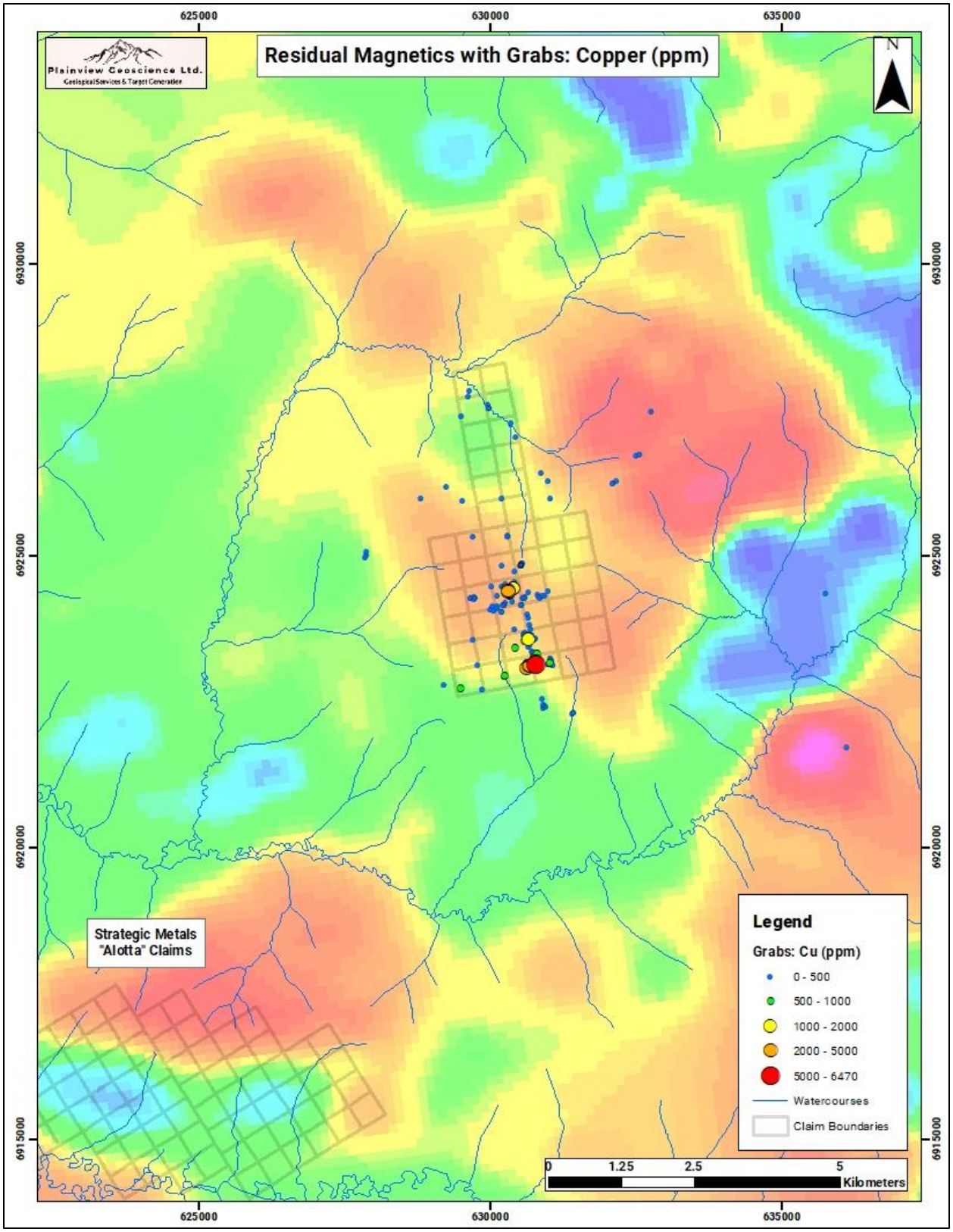

Figure 19: Total grab samples in Cu with government air magnetic survey

Statement of Qualifications

I, Chris Arsenault do hereby certify that:

1. *I graduated with a B.Sc. in Geology from Acadia University in 2014 and a technical diploma in Earth Resources Technology from Sir Sanford Fleming College in 2011.*
2. *I have worked as a Geologist since 2015 in the Yukon, Ontario, Nova Scotia, Newfoundland, British Colombia, and Arizona. I have been involved in the mineral exploration industry of the Yukon since 2007 and have a thorough understanding of grassroots project generation in the territory.*
3. *I have prepared this report which relies upon existing data relating to the project area, including field work conducted by geologists from multiple mineral exploration companies, government institutions, and academic literature which describes the geological settings of the project area and surrounding areas.*

Dated this
January 30th, 2024

Chris Arsenault, B.Sc. Geology

References

Yukon Geological Survey, RGS Re-Analysis, 2016-12-19
http://ygsftp.gov.yk.ca/YGSIDS/compilations/RGS_Reanalysis/YUKON%20ALL%20ICPMS%20REANALYSIS%20DATA%20FULL.xls

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Kiss & Coyle, 2011. First vertical derivative of the magnetic field, Aeromagnetic Survey of the Nisling River Area, NTS 115 J/2 and part of 115 J/3, Yukon

Western Copper and Gold, 2021. Accessed Jan 2, 2023.
https://www.westerncopperandgold.com/casino-project/

Appendix

Grabs Sample Assay Certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: PLAINVIEW GEOSCIENCE
105 GRANITE ST
WHITEHORSE YT Y1A 2V8

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 20-SEP-2023
Account: GEOPLAIN

Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

	CERTIFICATE COMMENTS
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. CRU-31 CRU-QC LOG-21 PUL-31 PUL-QC SPL-21 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-ICP41

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Total # Pages: 3 (A - C)
Plus Appendix Pages
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Account: GEOPLAIN

Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
D866301		0.78	0.020	0.7	0.96	3	<10	130	<0.5	35	0.29	<0.5	3	4	100	1.66
D866302		0.55	<0.001	0.2	1.40	<2	<10	80	<0.5	<2	0.96	<0.5	8	6	14	2.89
D866303		1.18	<0.001	<0.2	1.35	<2	<10	60	<0.5	3	0.34	<0.5	7	5	76	2.18
D866304		0.98	<0.001	0.3	1.68	<2	<10	100	<0.5	8	0.89	<0.5	9	6	20	2.93
D866305		1.01	0.001	<0.2	0.17	<2	<10	10	<0.5	<2	0.06	<0.5	2	5	67	1.68
D866306		1.34	<0.001	<0.2	0.87	<2	<10	30	0.5	2	0.95	<0.5	3	6	5	1.11
D866307		0.83	<0.001	1.5	0.01	<2	<10	<10	<0.5	26	0.01	<0.5	<1	7	504	0.16
E810501		1.49	0.002	0.4	1.16	5	<10	360	<0.5	2	0.62	<0.5	10	31	63	1.43
E810502		1.31	0.002	<0.2	3.41	18	<10	410	0.7	2	1.08	<0.5	23	149	46	4.07
E810503		0.95	0.001	<0.2	0.31	3	<10	1640	0.5	<2	0.10	<0.5	9	12	96	4.40
E810504		1.04	0.001	<0.2	3.56	5	<10	410	<0.5	4	1.92	<0.5	22	189	89	4.26
E810505		1.04	0.025	7.1	0.04	<2	<10	10	<0.5	455	0.02	2.4	2	8	3730	0.23
E810506		1.35	1.110	16.2	0.02	<2	<10	<10	<0.5	1005	0.02	1.6	<1	11	2070	0.19
E810507		1.55	0.009	6.6	0.06	<2	<10	<10	<0.5	113	0.01	<0.5	1	12	1260	0.46
E810508		1.43	0.049	22.4	0.05	2	<10	<10	<0.5	744	0.01	1.1	1	11	1795	1.02
E810509		0.77	0.400	53.6	0.02	4	<10	<10	<0.5	4110	0.01	0.6	<1	12	85	0.26
E810510		0.84	0.027	50.4	0.03	<2	<10	<10	<0.5	1130	0.01	0.7	<1	11	376	0.29
E810511		0.74	0.002	0.4	0.45	<2	<10	50	0.5	25	0.25	<0.5	1	5	20	0.48
E810512		0.82	<0.001	1.1	0.97	2	<10	60	0.8	29	0.50	<0.5	4	7	763	1.23
E810513		1.04	0.002	<0.2	0.89	<2	<10	60	0.5	2	0.38	<0.5	3	7	162	1.16
E810514		1.10	<0.001	0.2	0.44	<2	<10	40	<0.5	<2	0.44	<0.5	2	8	50	0.87
E810515		1.41	0.009	0.3	0.30	<2	<10	10	0.5	<2	0.46	1.7	4	7	154	2.67
E810516		1.27	0.007	0.2	0.40	<2	<10	30	0.5	<2	0.58	0.7	3	10	40	1.80
E810517		1.38	0.004	0.4	0.11	<2	<10	<10	<0.5	2	0.15	2.3	1	9	504	0.53
E810518		1.07	0.001	0.2	0.77	<2	<10	50	0.7	<2	0.48	<0.5	7	7	18	5.96
E810519		1.14	0.002	<0.2	0.75	2	<10	70	<0.5	<2	0.71	<0.5	3	7	7	2.00
E810520		1.43	<0.001	1.0	0.69	<2	<10	50	0.5	<2	1.12	<0.5	4	11	122	1.15
E810521		1.21	0.009	0.2	0.48	<2	<10	70	0.7	<2	0.58	1.2	5	7	61	2.35
E810522		1.52	0.003	1.1	0.25	45	<10	20	<0.5	<2	0.33	0.6	4	13	231	2.20
E810523		1.23	0.004	0.6	0.10	<2	<10	10	<0.5	9	0.10	<0.5	4	11	129	1.50
E810524		0.90	<0.001	<0.2	0.20	<2	<10	20	<0.5	<2	0.03	<0.5	1	5	25	0.27
E810525		1.41	<0.001	<0.2	0.86	2	<10	40	<0.5	<2	0.12	<0.5	5	54	62	1.57
E810526		1.15	<0.001	<0.2	2.23	3	<10	300	0.6	<2	0.26	<0.5	13	87	65	3.51
E810527		1.12	<0.001	0.9	0.09	<2	<10	10	<0.5	7	0.01	<0.5	1	11	830	0.38
E810528		1.14	<0.001	<0.2	0.03	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	13	9	0.17
E810529		1.26	<0.001	0.2	0.06	<2	<10	<10	<0.5	<2	0.01	<0.5	2	14	181	0.40
E810530		1.15	<0.001	<0.2	0.03	<2	<10	<10	<0.5	<2	0.01	<0.5	1	13	28	0.20
E810531		0.76	<0.001	<0.2	1.52	<2	<10	90	0.6	<2	1.12	<0.5	10	7	16	3.03
E810532		1.22	<0.001	0.3	0.32	<2	<10	50	<0.5	<2	0.19	<0.5	3	18	102	0.84
E810533		1.38	<0.001	0.3	0.51	<2	<10	120	<0.5	<2	0.15	<0.5	5	33	224	1.34

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To: PLAINVIEW GEOSCIENCE
105 GRANITE ST
WHITEHORSE YT Y1A 2V8

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Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Li ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
D866301		<10	<1	0.17	20	10	0.40	377	2	0.06	1	280	16	0.04	<2	3
D866302		10	<1	0.18	20	20	0.63	457	1	0.11	2	980	14	<0.01	<2	3
D866303		10	<1	0.12	10	20	0.50	558	<1	0.07	6	470	9	0.01	<2	2
D866304		10	<1	0.28	20	20	0.89	484	1	0.10	4	960	14	0.01	<2	3
D866305		<10	<1	0.01	<10	<10	0.06	96	<1	0.02	1	50	62	0.01	<2	<1
D866306		<10	<1	0.13	10	10	0.27	505	2	0.06	2	210	10	0.01	<2	2
D866307		<10	<1	<0.01	<10	<10	0.01	21	25	0.02	1	<10	20	0.01	<2	<1
E810501		<10	<1	0.16	<10	<10	0.25	106	1	0.14	35	330	2	0.04	<2	2
E810502		10	<1	0.81	10	20	1.53	379	2	0.20	115	540	2	0.65	<2	12
E810503		<10	<1	0.07	<10	<10	0.07	99	4	0.02	16	480	3	0.03	<2	2
E810504		10	<1	1.08	10	30	2.14	487	1	0.42	113	1980	4	0.02	<2	3
E810505		<10	<1	<0.01	<10	<10	0.01	115	58	0.02	2	10	319	0.01	<2	<1
E810506		<10	<1	<0.01	<10	<10	0.01	64	98	0.01	<1	10	409	0.01	<2	<1
E810507		<10	<1	<0.01	<10	<10	0.03	52	19	0.01	2	20	59	0.02	<2	<1
E810508		<10	<1	<0.01	<10	<10	0.01	34	164	0.02	1	10	356	0.02	<2	<1
E810509		<10	<1	<0.01	<10	<10	<0.01	29	529	0.02	1	20	703	0.04	2	<1
E810510		<10	<1	<0.01	<10	<10	0.01	60	247	0.01	1	<10	934	0.04	<2	<1
E810511		<10	<1	0.09	10	<10	0.12	152	4	0.05	1	100	20	0.01	<2	1
E810512		<10	<1	0.10	10	10	0.31	284	2	0.06	7	240	16	0.01	<2	2
E810513		<10	<1	0.07	10	10	0.30	338	1	0.04	6	230	6	<0.01	<2	1
E810514		<10	<1	0.11	10	10	0.17	209	<1	0.04	2	110	11	<0.01	<2	1
E810515		<10	<1	0.01	10	<10	0.30	257	<1	0.05	2	40	91	0.01	<2	1
E810516		<10	<1	0.03	10	10	0.31	221	<1	0.08	1	190	39	<0.01	<2	2
E810517		<10	<1	<0.01	<10	<10	0.03	99	<1	0.01	1	40	366	<0.01	<2	<1
E810518		<10	<1	0.05	20	10	0.26	151	2	0.05	2	880	11	<0.01	<2	3
E810519		<10	<1	0.12	30	10	0.14	118	1	0.18	2	1150	7	<0.01	<2	1
E810520		<10	<1	0.07	10	10	0.28	1185	31	0.03	2	190	94	0.01	<2	1
E810521		<10	<1	0.08	20	10	0.20	355	1	0.04	1	370	94	<0.01	<2	2
E810522		<10	<1	0.03	<10	<10	0.03	67	79	0.01	27	1100	9	0.04	2	1
E810523		<10	<1	0.02	<10	<10	0.05	51	31	<0.01	82	100	3	0.01	<2	<1
E810524		<10	<1	0.10	10	<10	0.02	30	4	0.03	1	40	5	<0.01	<2	1
E810525		<10	<1	0.16	10	20	0.53	242	3	0.03	19	380	3	<0.01	<2	3
E810526		10	<1	1.02	20	40	1.16	614	2	0.03	55	390	4	<0.01	<2	9
E810527		<10	<1	0.01	<10	<10	0.05	103	1	<0.01	2	20	8	<0.01	<2	<1
E810528		<10	<1	<0.01	<10	<10	0.01	18	1	<0.01	2	20	<2	<0.01	<2	<1
E810529		<10	<1	0.01	<10	<10	0.03	32	<1	<0.01	30	40	2	<0.01	<2	<1
E810530		<10	<1	0.01	<10	<10	0.01	24	<1	<0.01	17	30	<2	<0.01	<2	<1
E810531		10	<1	0.09	20	20	0.73	344	1	0.08	4	1360	20	0.01	<2	2
E810532		<10	<1	0.06	<10	10	0.19	136	557	0.01	12	720	2	0.02	<2	1
E810533		<10	<1	0.23	<10	10	0.32	281	411	0.01	14	220	<2	0.04	<2	2

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To: PLAINVIEW GEOSCIENCE
105 GRANITE ST
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Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Sr	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	1	20	0.01	10	10	1	10	2
D866301		26	20	0.09	<10	<10	27	<10	59
D866302		51	<20	0.17	<10	<10	49	<10	57
D866303		17	<20	0.08	<10	<10	29	<10	57
D866304		42	<20	0.18	<10	<10	42	<10	79
D866305		5	<20	0.01	<10	<10	8	<10	19
D866306		27	<20	0.01	<10	<10	17	10	41
D866307		<1	<20	<0.01	<10	<10	1	<10	7
E810501		29	<20	0.08	<10	<10	41	<10	23
E810502		48	<20	0.22	<10	<10	140	<10	88
E810503		8	<20	0.01	<10	<10	45	<10	30
E810504		340	<20	0.35	<10	<10	143	<10	46
E810505		1	<20	<0.01	<10	<10	15	<10	78
E810506		1	<20	<0.01	<10	<10	17	<10	45
E810507		2	<20	<0.01	<10	<10	4	<10	19
E810508		1	<20	<0.01	<10	<10	6	<10	14
E810509		1	<20	<0.01	<10	<10	5	<10	6
E810510		2	<20	<0.01	<10	<10	3	<10	12
E810511		11	<20	0.01	<10	<10	6	<10	14
E810512		47	<20	0.03	<10	<10	15	30	62
E810513		28	<20	0.03	<10	<10	11	<10	33
E810514		17	20	0.02	<10	<10	12	<10	25
E810515		15	<20	0.06	<10	<10	34	<10	155
E810516		21	<20	0.12	<10	<10	24	<10	63
E810517		3	<20	<0.01	<10	<10	48	<10	442
E810518		33	<20	0.09	<10	<10	47	20	30
E810519		59	20	0.11	<10	<10	49	<10	22
E810520		29	<20	0.02	<10	<10	16	40	48
E810521		23	<20	0.06	<10	<10	19	10	154
E810522		34	<20	0.02	<10	<10	36	<10	40
E810523		2	<20	0.01	<10	<10	12	150	7
E810524		4	<20	<0.01	<10	<10	1	10	8
E810525		4	<20	0.03	<10	<10	56	<10	24
E810526		12	<20	0.21	<10	<10	134	<10	76
E810527		1	<20	<0.01	<10	<10	6	10	7
E810528		<1	<20	<0.01	<10	<10	2	<10	2
E810529		1	<20	<0.01	<10	<10	3	<10	3
E810530		<1	<20	<0.01	<10	<10	3	<10	2
E810531		60	<20	0.18	<10	<10	44	<10	59
E810532		5	<20	0.01	<10	<10	50	<10	13
E810533		4	<20	0.05	<10	<10	24	<10	23

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105 GRANITE ST
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Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method	WEI-21	Au-ICP21	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	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
E810534		1.27	<0.001	0.4	0.30	<2	<10	50	<0.5	<2	0.19	<0.5	5	25	341	0.97
E810535		1.47	<0.001	0.3	1.70	2	<10	700	<0.5	<2	0.22	<0.5	15	73	131	3.44
E810536		0.86	0.027	9.7	0.07	<2	<10	<10	<0.5	467	<0.01	0.8	2	10	618	0.84
E810537		2.16	0.002	10.6	0.11	<2	<10	<10	<0.5	116	0.01	1.3	2	10	2540	0.49
E810538		1.54	<0.001	2.9	0.05	<2	<10	<10	<0.5	72	0.03	<0.5	2	14	4540	0.32

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105 GRANITE ST
WHITEHORSE YT Y1A 2V8

Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method Analyte Units LOD	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Li ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
E810534		<10	<1	0.09	<10	<10	0.17	233	213	<0.01	10	160	<2	0.03	<2	1
E810535		10	<1	1.18	10	30	1.11	930	1015	0.06	47	490	3	0.09	<2	8
E810536		<10	<1	<0.01	<10	<10	0.02	33	50	<0.01	1	10	122	<0.01	<2	<1
E810537		<10	<1	<0.01	<10	<10	0.04	65	16	<0.01	2	10	89	<0.01	<2	<1
E810538		<10	<1	<0.01	<10	<10	0.05	96	15	<0.01	1	10	103	<0.01	<2	<1

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Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247739

Sample Description	Method Analyte Units LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
E810534		6	<20	0.02	<10	<10	15	<10	16
E810535		15	<20	0.25	<10	<10	103	<10	62
E810536		1	<20	<0.01	<10	<10	10	10	41
E810537		1	<20	<0.01	<10	<10	11	<10	61
E810538		1	<20	<0.01	<10	<10	3	<10	12

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Soil Sample Assay Certificates

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CERTIFICATE WH23247722

Project: Big Ray

This report is for 25 samples of Soil submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2023.

The following have access to data associated with this certificate:

CHRIS ARSENAULT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging – ClientBarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	36 Element Aqua Regia ICP-AES	ICP-AES

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.
***** See Appendix Page for comments regarding this certificate *****

Signature:
Saa Traxler, Director, North Vancouver Operations

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Project: Big Ray

CERTIFICATE OF ANALYSIS WH23247722

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ST067851		0.45	0.005	0.2	2.27	9	10	130	0.6	5	0.35	<0.5	12	47	41	3.51
ST067852		0.20	0.005	<0.2	2.74	11	10	140	0.7	2	0.24	<0.5	12	45	29	3.63
ST067853		0.33	0.004	0.3	2.05	6	<10	140	0.8	4	0.50	<0.5	11	51	41	3.04
ST067854		0.34	0.001	0.4	2.75	8	10	210	1.2	<2	0.79	<0.5	11	38	38	3.25
ST067855		0.27	0.003	<0.2	3.04	11	10	120	0.7	<2	0.21	<0.5	11	37	22	3.58
ST067856		0.34	0.004	<0.2	2.34	7	10	120	0.5	<2	0.28	<0.5	11	35	18	3.11
ST067857		0.20	0.006	0.2	3.06	12	10	100	0.7	<2	0.17	<0.5	11	38	22	3.75
ST067858		0.51	0.007	0.2	2.18	7	10	190	0.8	2	0.43	<0.5	13	51	88	3.51
ST067859		0.39	0.008	<0.2	2.32	6	10	190	0.7	2	0.52	<0.5	15	54	63	3.65
ST067860		0.52	0.005	0.4	2.25	9	10	280	0.9	2	0.63	<0.5	15	53	105	3.82
ST067861		0.51	0.007	0.6	2.55	15	10	410	1.7	3	0.74	0.7	24	66	270	5.25
ST067862		0.62	0.004	0.7	2.14	15	10	250	1.3	<2	0.60	1.1	20	89	255	4.51
ST067863		0.64	0.003	0.6	2.77	10	10	510	1.9	3	0.80	0.8	22	66	164	5.74
ST067864		0.62	0.008	0.3	2.05	7	<10	170	0.8	3	0.43	0.6	15	50	86	3.42
ST067865		0.55	0.004	<0.2	2.55	9	10	170	0.8	<2	0.23	<0.5	13	55	37	3.46
ST067866		0.54	0.004	0.6	2.28	6	<10	210	0.9	5	0.44	0.5	12	59	140	3.37
ST067867		0.57	0.003	0.6	2.47	7	<10	210	0.9	7	0.44	<0.5	15	73	112	3.67
ST067868		0.55	0.003	0.3	2.77	10	10	200	0.8	2	0.30	0.6	15	59	61	3.98
ST067869		0.53	0.002	<0.2	2.92	11	10	190	0.7	2	0.21	<0.5	11	47	25	3.65
ST067870		0.50	0.006	0.2	2.98	32	10	180	0.9	<2	0.36	<0.5	15	58	46	3.74
ST067871		0.45	0.002	<0.2	3.36	12	10	140	0.8	<2	0.21	<0.5	13	44	23	3.58
ST067872		0.43	0.003	<0.2	2.86	10	10	130	0.7	<2	0.22	<0.5	11	39	17	3.48
ST067873		0.46	0.014	<0.2	2.48	9	<10	110	0.6	<2	0.18	<0.5	11	37	19	3.45
ST067874		0.50	0.008	<0.2	2.23	9	10	120	0.5	<2	0.18	<0.5	9	34	17	3.74
A0570935		0.86	0.003	0.7	2.25	7	<10	120	1.0	2	1.22	<0.5	8	24	35	2.70

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Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Ca ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Li ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1
ST067851		10	<1	0.09	10	20	0.75	464	8	0.02	30	770	16	0.02	<2	5
ST067852		10	<1	0.08	10	20	0.69	383	6	0.02	31	500	16	0.02	<2	5
ST067853		10	<1	0.09	10	20	0.68	563	7	0.02	29	890	11	0.02	<2	5
ST067854		10	<1	0.07	20	20	0.60	652	7	0.02	24	980	17	0.06	<2	4
ST067855		10	<1	0.07	10	20	0.50	504	2	0.02	27	970	26	0.06	<2	4
ST067856		10	<1	0.05	10	10	0.54	372	1	0.02	26	500	12	0.02	<2	4
ST067857		10	<1	0.06	10	20	0.49	576	2	0.02	23	910	21	0.07	<2	3
ST067858		10	<1	0.13	10	20	0.77	524	30	0.02	35	900	14	0.02	<2	5
ST067859		10	<1	0.19	10	20	0.93	645	6	0.03	38	1370	9	0.02	<2	6
ST067860		10	<1	0.14	20	20	0.92	649	15	0.02	43	1450	13	0.02	<2	9
ST067861		10	<1	0.24	20	30	1.06	1170	34	0.02	84	1600	22	0.02	<2	9
ST067862		10	<1	0.09	20	20	0.81	935	46	0.02	85	1380	18	0.04	2	6
ST067863		10	<1	0.35	40	30	1.27	1180	12	0.01	64	1940	22	0.02	2	9
ST067864		10	<1	0.11	10	20	0.83	607	3	0.02	42	1220	23	0.01	<2	5
ST067865		10	<1	0.12	10	20	0.87	518	1	0.02	34	550	8	0.01	<2	6
ST067866		10	<1	0.13	10	20	0.88	455	5	0.02	40	1060	18	0.02	<2	6
ST067867		10	<1	0.17	10	30	1.09	642	5	0.02	48	970	61	0.01	2	6
ST067868		10	<1	0.10	10	30	0.80	553	8	0.02	46	970	23	0.02	<2	5
ST067869		10	<1	0.06	10	20	0.61	343	3	0.02	28	330	11	0.01	2	5
ST067870		10	<1	0.08	10	30	0.85	497	4	0.02	40	880	12	0.01	<2	5
ST067871		10	<1	0.07	10	20	0.61	345	2	0.02	30	450	10	0.01	<2	5
ST067872		10	<1	0.05	10	20	0.61	394	2	0.02	26	470	13	0.02	2	4
ST067873		10	<1	0.05	10	20	0.53	383	5	0.01	26	430	34	0.03	<2	3
ST067874		10	<1	0.04	10	20	0.43	303	2	0.01	19	380	14	0.02	<2	3
A0570935		10	<1	0.08	30	30	0.50	360	10	0.02	16	870	12	0.07	<2	4

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CERTIFICATE OF ANALYSIS WH23247722

Sample Description	Method / Analyte / Units / LOD	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
ST067851		25	<20	0.15	<10	<10	97	<10	65
ST067852		20	<20	0.13	<10	<10	90	<10	63
ST067853		38	<20	0.08	<10	<10	75	<10	68
ST067854		62	<20	0.08	<10	<10	73	<10	73
ST067855		19	<20	0.10	<10	<10	79	<10	60
ST067856		23	<20	0.13	<10	<10	79	<10	52
ST067857		17	<20	0.09	<10	<10	78	<10	75
ST067858		25	<20	0.15	<10	<10	103	10	72
ST067859		28	<20	0.19	<10	<10	92	10	78
ST067860		41	<20	0.15	<10	<10	97	30	88
ST067861		35	<20	0.12	<10	<10	157	40	126
ST067862		29	<20	0.09	<10	<10	147	20	107
ST067863		39	<20	0.10	<10	<10	149	10	138
ST067864		22	<20	0.13	<10	<10	97	20	78
ST067865		17	<20	0.14	<10	<10	98	<10	66
ST067866		27	<20	0.14	<10	<10	101	10	77
ST067867		29	<20	0.15	<10	<10	107	30	95
ST067868		20	<20	0.13	<10	<10	102	<10	85
ST067869		20	<20	0.12	<10	<10	88	<10	56
ST067870		24	<20	0.14	<10	<10	91	<10	69
ST067871		18	<20	0.12	<10	<10	74	<10	56
ST067872		20	<20	0.11	<10	<10	75	<10	58
ST067873		16	<20	0.10	<10	<10	75	<10	66
ST067874		19	<20	0.11	<10	<10	91	<10	55
A0570935		92	<20	0.05	<10	60	51	<10	62