Yukon Mineral Exploration Technical Report

Stevenson Ridge – YMEP Grant 21-036

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1/31/22

UTM Zone 7, Map sheet 115J-08

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***Figure 1**: Yukon Territory Map*

1.0 Introduction

The following technical report for YMEP grant 20-036 summarizes the 6 days of field work conducted on project area. Through accessing government stream sediment geochemistry data, I identified an anomalous gold sample (ID 115J863399, Map 115J08, UTM Zone 7, 629675E 6927933N) with 131.7 ppb Au assayed in an unglaciated area of favourable geology. Further investigations of the Yukon Mining Recorders database into the sample location shows that no previous field work has been completed in the area before 2020. The following report summarizes the geological environment, details of the work conducted, expenditures, and rationale into the economic potential of the project site. Regionally the project is found within the Dawson Range Gold District and is situated approximately 80km south of Western Gold & Copper's Casino deposit (8.9 million ounces gold, 4.5 billion lbs copper), 35km south of the Rude Creek Gold project, and 30km west of Triumph Gold's Freegold Mountain project.

The project area is situated within the northwest trending Dawson Range gold and copper belt, historically considered to extend 250 km from the Mount Nansen area into Alaska, but recently extended another 100 km to the south into the Aishihik Lake area, where age dating has identified similar age intrusions and mineralization. The belt hosts several deposits and mineralized showings of various deposit models including calc-alkalic porphyry copper – gold $\pm$ molybdenum, associated adjacent epithermal vein and breccia systems, and peripheral polymetallic veins, as well as orogenic gold.

Field work consisted of prospecting over 6 days. 74 rock samples were taken, and traverses were planned to investigate geophysical anomalies in the aeromagnetic data, and follow-up on 2020 field work. Outcrop consisted of less than 1% of the total area, while blocky talus and weathered soils comprised the majority of the surficial terrain. The topography can be described as wide ridges descending into moderate to steep slopes into a 200m (at its widest) valley bottom. The project area is hosted within unglaciated terrain and field investigations confirmed no evidence of glaciation.

Access was via fixed wing airplane from Dawson into the Casino airstrip for one field worker and a fixed wing airplane from Whitehorse to Casino, followed by an A-Star helicopter dropping three field workers including myself at the project site.

Grab samples were taken based on economic mineral significance, the presence of alteration associated with copper porphyry environments, and for lithological interest.

Assays were sent to ALS Minerals of Whitehorse, Yukon. Rock samples were analysed for gold by fire assay and ICP & four acid/ICP multi element analysis (ALS code: AU ICP 21).

No claims were staked during the duration of the work program, as the goal of the project was to first better understand the economic potential of the project area through prospecting and subsequent assays.

1.1 Historic Regional Stream Sediment Geochemistry

Table 1: **1986 Regional stream sediment sample**

Area	Sample ID	Map 250k	Map 50k	YEAR	UTM Zone	Easting	Northing	Lith.	Au ppb	Ag ppb	As ppm
STEVENSON RIDGE	115J863399	115J	115J08	1986	7	629675	6927933	mKW	131.7	123	3.1

The Geological Survey of Canada conducted stream sediment and water surveys in Yukon between 1976 and 2006. Original data had become outdated due to poor detection levels and limited key metals determined. In an effort to improve the geochemical dataset, the Yukon Geological Survey set about having stream sediment samples from the previous collection programs reanalyzed. Samples recovered from storage have been analyzed for 51 elements by aqua-regia digestion followed by ICPMS (YGS, 2016).

The total number of samples in the dataset is 16643, and sample ID115J863399 is found within the 99th percentile for gold value in the dataset.

Figure 2: Slope of mineralized area; Limited outcrop exposure while moderate to steep blocky talus slopes characterize the valley walls. Ridges are typically flat and wide.

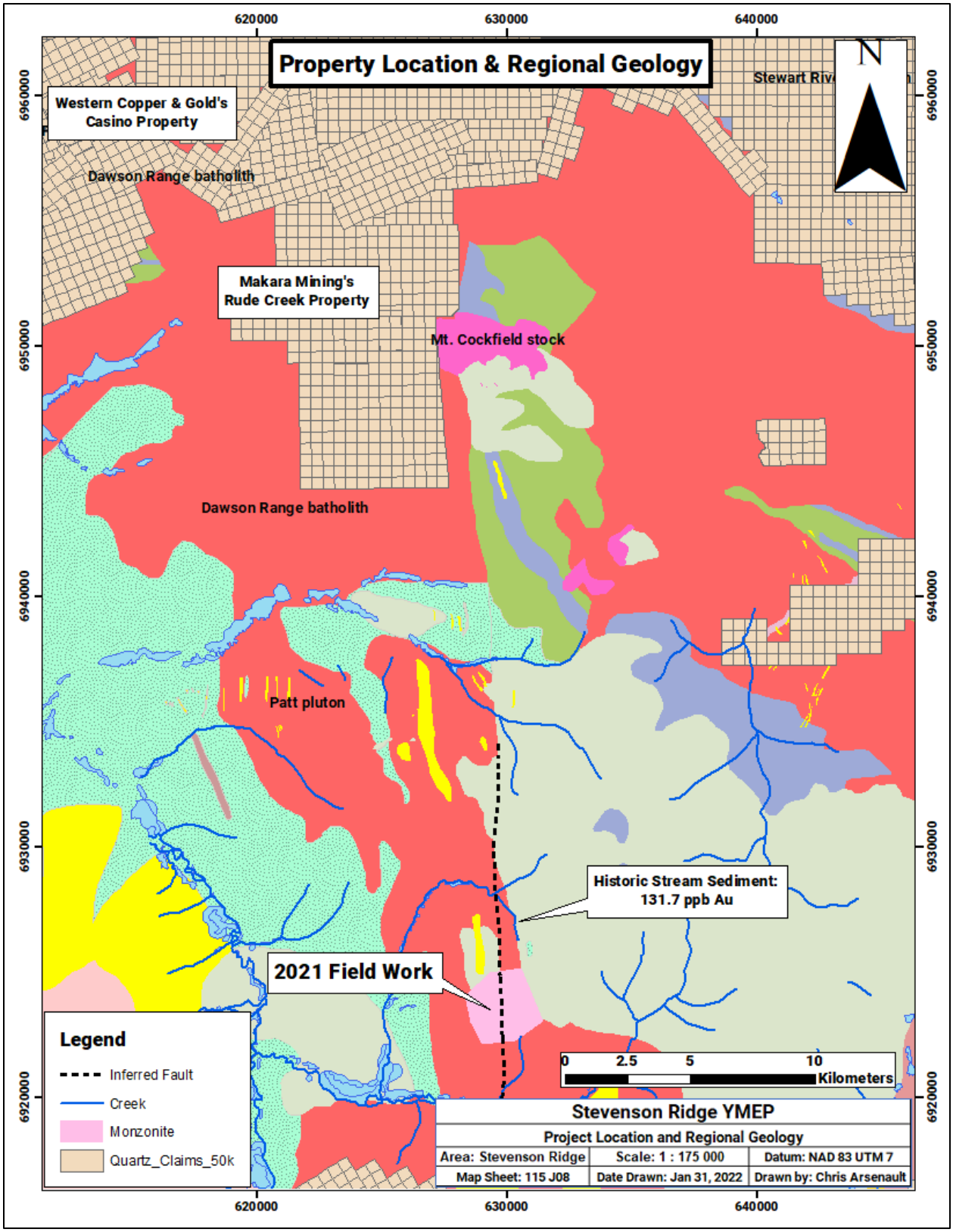

Figure 3: Property Location & Regional Geology

2.0 Regional Geology

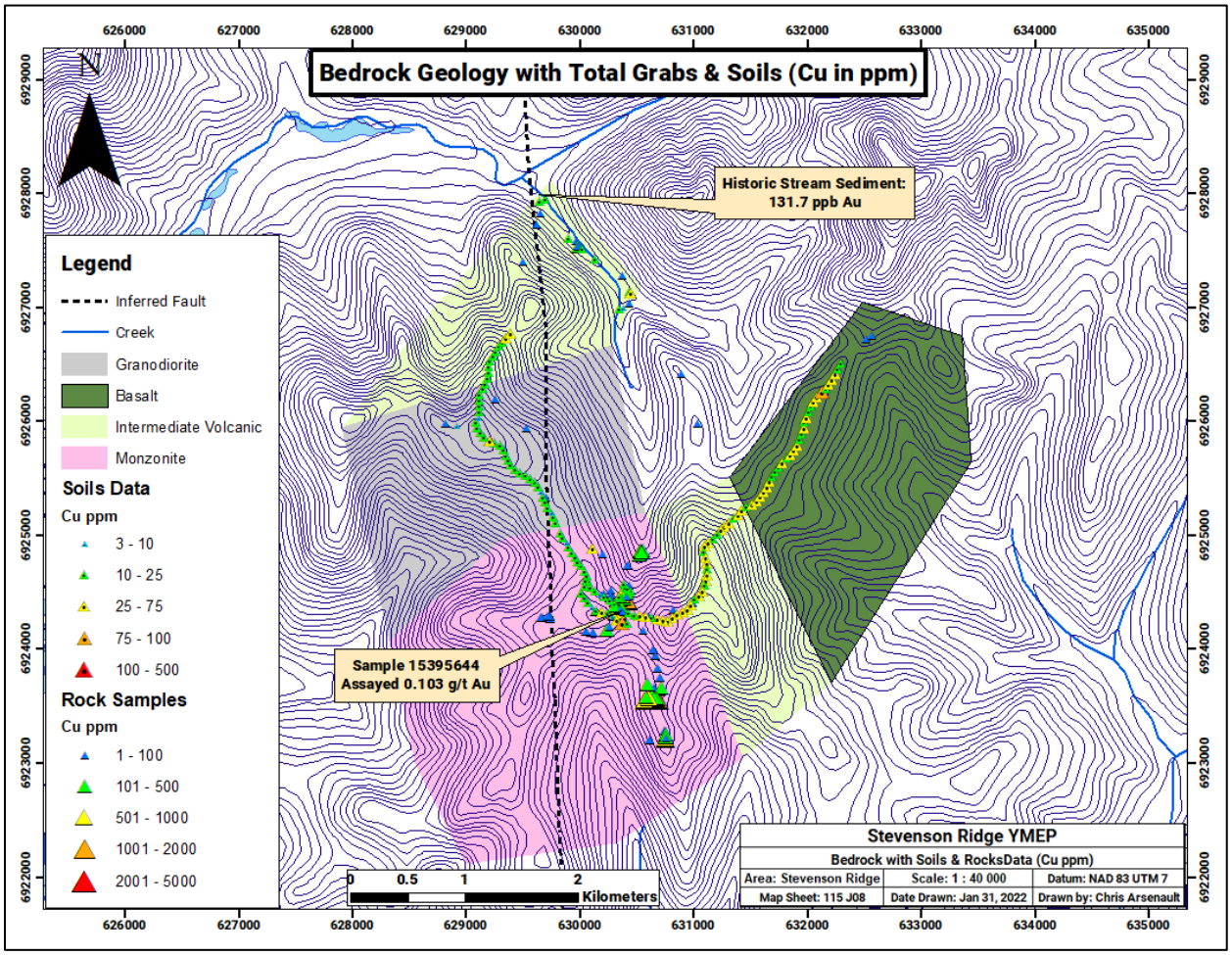

Figure 4: Field work focused on prospecting, soil sampling, and mapping outcrops to better understand the geological environment and find the source of the high gold silt collected in 1986. The monzonite unit belonging to the Dawson Range Batholith included chalcopyrite + sphalerite+ molybdenite+ magnetite + pyrite mineralization which is the likely source of the anomaly.

Dawson Range Batholith - Granodiorite to Monzonite Porphyry

Field investigations showed a transition from a granodiorite into a monzonite (see Figure 3) heading to the southern portion of the project area. Magnetite was present throughout the granodiorite, and increased in volume in proximation to the monzonite. The monzonite unit saw a gradual increase in the potassium content moving further south which coincided with an increase Qtz + Kspar veinlets observed in talus, and the presence of chalcopyrite, magnetite and minor pyrite.

Figure 5: Monzonite float showing parallel bands of magnetite + chalcopyrite in quartz + k-spar veinlets. This sample assayed 0.012 ppm Au, 2.3 ppm Ag, 342 ppm Cu, 591 ppm Pb, and 1085 ppm Zn.

Granodiorite samples were mineralogically composed of white feldspar, biotite, black to green amphiboles, trace epidote, and traces of disseminated pyrite and magnetite while displaying porphyritic textures of varying grain sizes.

Monzonite grab samples included samples with up to 80% potassium feldspar content, displaying weak to strong porphyritic textures, and the presence of quartz and potassium feldspar veinlets with associated magnetite and traces of chalcopyrite, galena, and pyrite.

With less than 1% outcrop in the area, understanding any structural components to the transition from granodiorite to monzonite was not evident. The terrain hosts wide plateaus at the top of ridges with moderate to steep slopes descending into valley bottoms. The large blocky nature of the talus makes swift traverses across the landscape quite difficult.

Figure 6: Granodiorite / altered monzonite grab sample showing mild porphyritic texture, roughly 20% potassium feldspar, with trace amounts of magnetite. Sample Y643165 sampled near this sample, assayed 0.022 ppm Au, 3.1 ppm Ag, 211 ppm Cu, 673 ppm Pb, 907 ppm Zn.

Intermediate Volcanic Porphyry

The most northern extent of the project area which was mapped included an intermediate volcanic unit with intermittent, seemingly narrow felsic dikes. The unit consists of a fine-grained green matrix with coarse white feldspar phenocrysts (plagioclase) and 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. The assays returned only elevated amounts of copper, but the alteration type fits models for the kind of propylitic alteration you would expect distally to monzonite porphyries hosting Au-Cu deposits.

Figure 7: Intermediate volcanic porphyry with fine grained matrix and feldspar phenocrysts

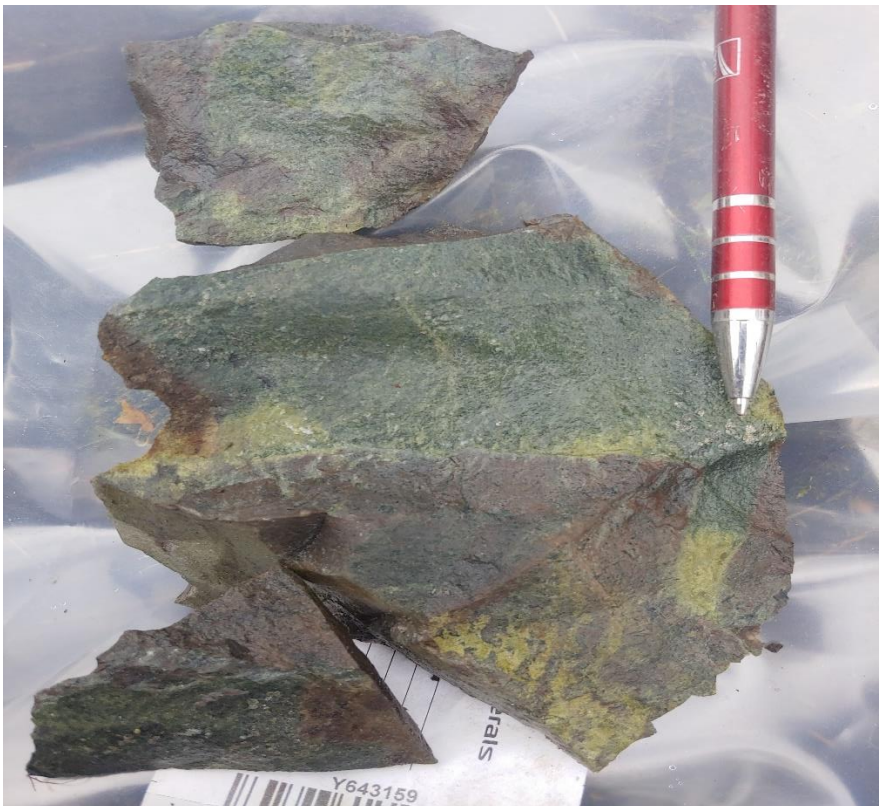

Figure 8: Epidote altered mafic volcanic float found at creek bottom close to historic silt sample. Trace chalcopyrite with disseminated pyrrhotite and

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.

3.0 Historical Work

While there is no specific historical work conducted on the project site, there was historic exploration programs which have been conducted proximate to the area. Through accessing the Yukon Geological Survey's database, I was able to find assessment reports and reported occurrences in the surrounding area with similar bedrock lithologies and geophysical signatures to the proposed project area:

3.1 Somme Minfile

YGS Occurrence Number 115J 004, NTS Mapsheet 115J08, 62˚24'30"N, 138˚27' 21" W
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.

3.2 Mim Minfile

*YGS Occurrence Number 115J003, NTS Mapsheet 115J07, 62˚21'25"N , 138˚34' 15"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.

Previous exploration history of the area provides evidence of porphyry style mineralization, and considering some of the prospected areas (Somme) did not receive assays for gold content, the project area merits further exploration. The previous work did not detail structural or geophysical targets of interest which may have been critical to understanding localised mineralization.

3.3 2020 YMEP Field Work

The 2020 YMEP Program 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 49 rock samples & 152 soil samples. A monzonitic porphyry was identified which yielded anomalous, copper, gold, zinc, silver, and molybdenite signatures.

Assays were sent to ALS Minerals of Whitehorse, Yukon. Rock samples were analysed for gold by fire assay and ICP & four acid/ICP multi element analysis (ALS code: AU ICP 21). Full assay results can be viewed in the appendix.

Soil Anomalies					
	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43	AuME-TL43
	Au	Ag	Cu	Pb	Zn
SAMPLE	ppm	ppm	ppm	ppm	ppm
X983975	**0.021**	0.06	21.6	33.7	72
A0570711	**0.013**	0.08	47	5.9	68
X983966	0.009	**0.1**	17.9	17.9	66
A0570769	0.008	0.16	17.6	11.3	47
A0570680	0.008	**0.1**	21	8.8	59
X983967	0.008	**0.1**	15.1	15.1	78
A0570768	0.005	1.04	87	**107**	**152**
X983976	0.003	0.06	28.7	**126.5**	**184**
X983978	0.003	**0.1**	17.1	28.7	70
X983980	0.003	**0.12**	18.5	49.3	87
X983979	0.002	**0.14**	16.8	59.4	106
X983977	<0.001	**0.09**	3.5	13.9	**166**

Table 2: Soil anomalies

Rock Anomalies					
	Au-ICP21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Au	Ag	Cu	Pb	Zn
SAMPLE	ppm	ppm	ppm	ppm	ppm
A0670440	**0.035**	<0.5	10	14	82
Y643186	**0.032**	1.7	66	382	638
Y643165	**0.022**	**3.1**	211	673	**907**
Y643174	0.012	**2.3**	342	591	**1085**
Y643181	0.004	1.3	610	523	743

Table 3: Rock Anomalies

4.0 Results

6 days of field work between 3 field personnel entirely on prospecting and resulted in 74 grab samples. The mineralized monzonite identified in 2020 expanded further to the south through prospecting, and remains open to the south, 17 grab samples with chalcopyrite expanded the known zone of mineralization by over 2 kilometers, all of which falls within a potassic altered zone varying from monzonite to potasically altered diorite.

4 samples showed molybdenite and galena and one sample included coarse grained sphalerite. The chalcopyrite was largely associated with Qtz-Kspar veins which were up to 25cm in width. The terrain consists of large, angular talus boulders making orientations of vein material no possible. Outcrop exposure was limited, but the mineralized samples were all very local, angular boulders.

Due to weather, additional helicopter support was not possible for additional setouts outside of the monzonite/granodiorite areas where mineralization was found.

Sample Number	Easting	Northing	Cu ppm	Au ppm	Ag ppm	Mo ppm	Pb ppm	Zn ppm
1236964	630667.6	6923566	1585	0.001	1	2	12	32
Y643188	630398.1	6924440	1415	0.004	2.3	0	859	1055
Y643189	630394.8	6924441	1005	0.005	4	0	743	1045
1539551	630572.8	6923543	950	0.001	1.7	9	32	130
1236965	630667.7	6923562	924	0.001	1	5	0	2
3200368	630323	6924330	792	0.001	4	0	1415	2260
1539554	630756	6923213	764	0.001	1.1	3	7	46
Y643199	630614.5	6923571	692	0.001	3.3	5	84	45
Y643197	630668.7	6923571	462	0.001	0.5	2	12	24
1539564	630345.6	6924347	362	0.103	2.1	1	938	531
1236966	630649.3	6923578	340	0.001	0.5	4	0	2
Y643196	630683.2	6923561	337	0.001	0.5	6	3	6
3200359	630756	6923220	306	0.001	0.9	2	8	57
3200363	630538.9	6924848	256	0.001	1.1	31	141	175
Y643191	630378.7	6924457	243	0.015	2.1	2	1180	1070

Table 4: Highlights of 2021.

8 samples assayed over 500 ppm copper. The highest grading copper samples were “1236964” which assayed 1585 ppm, and sample “Y643188” which assayed 1415 ppm Cu, 1055 ppm Zn, and 2.3 Ag.

The highest grading gold sample, “1539564” assayed 0.103 ppm Au, 2.1 ppm Ag, 938 ppm Pb, and 531 ppm Zn.

The highest grading molybdenum samples ”1236967 & 3200370” assayed 229 ppm and 106 ppm Mo respectively.

4 samples assayed over 1000 ppm Zn,with sample “3200368” assaying 2260 ppm Zn.

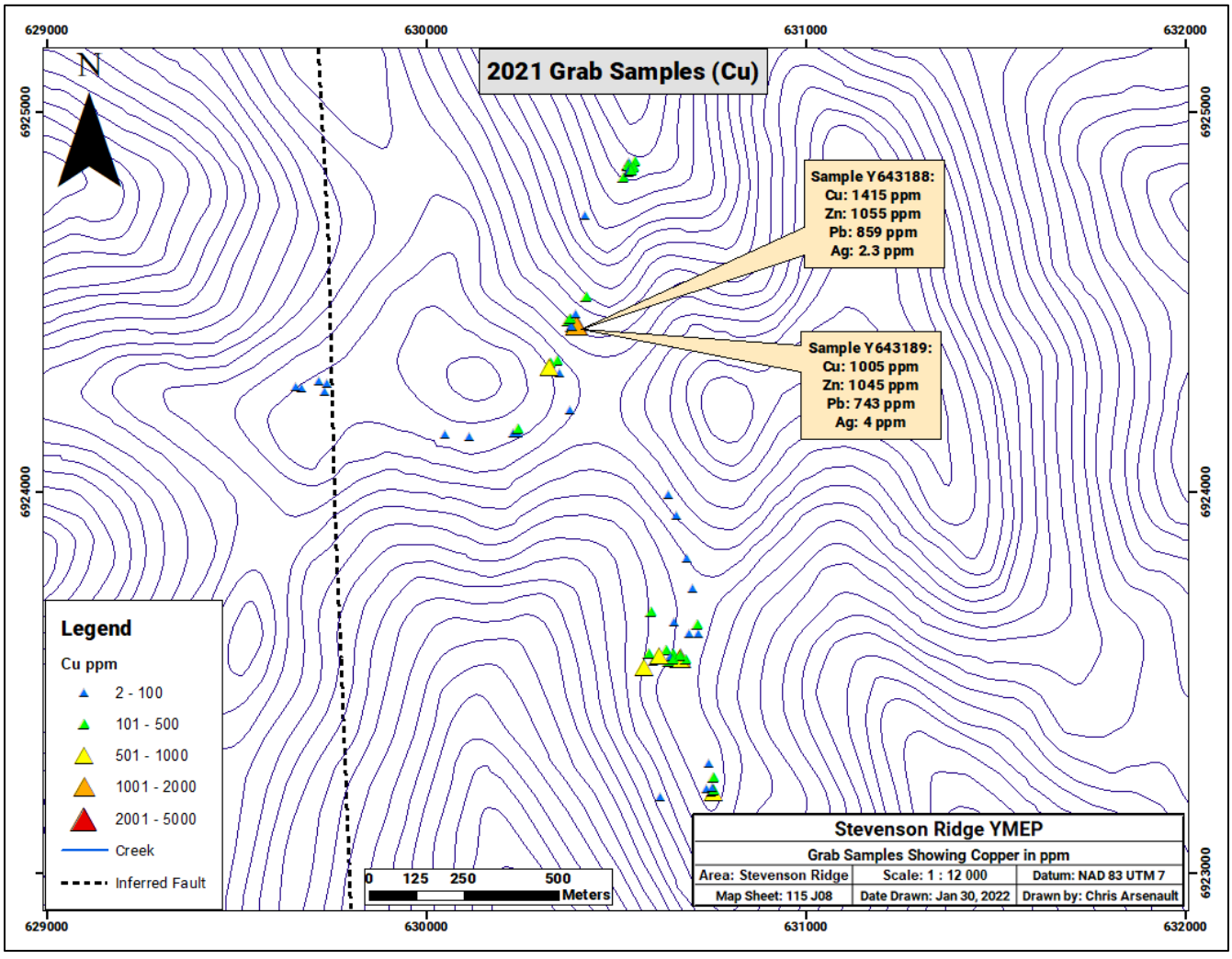

Figure 9: 2021 Grab samples displaying copper values.

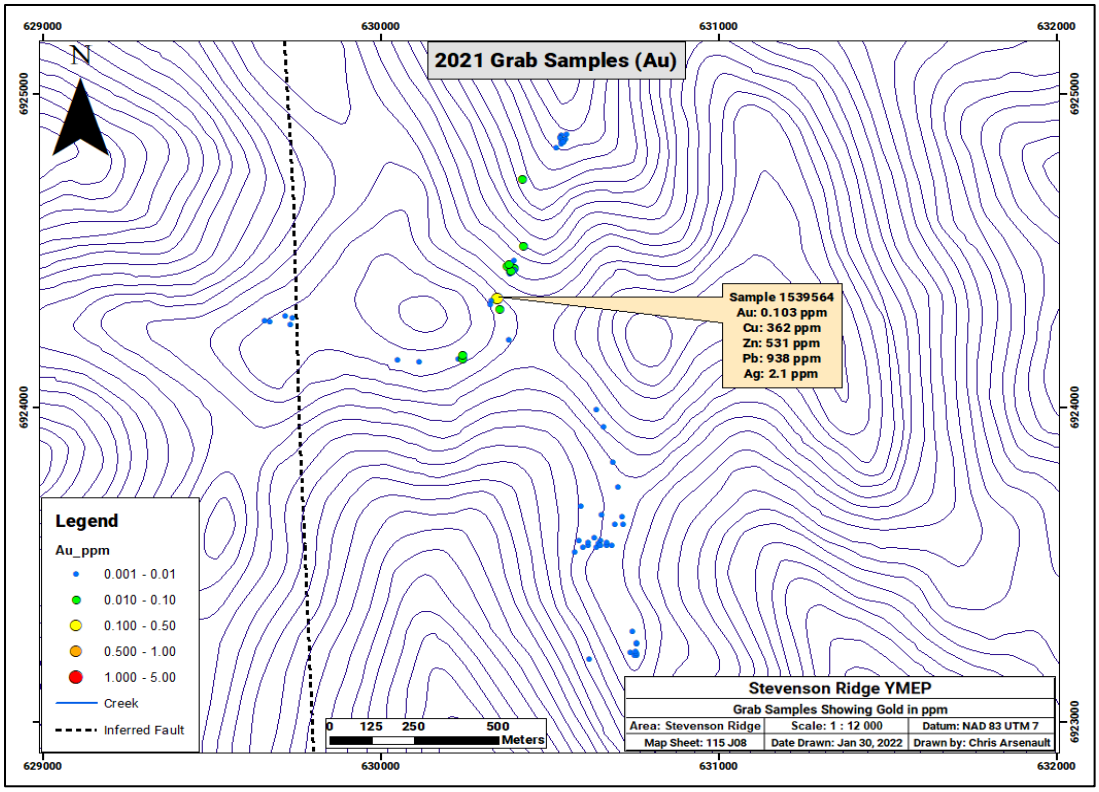

Figure 10: 2021 Grab samples displaying gold values.

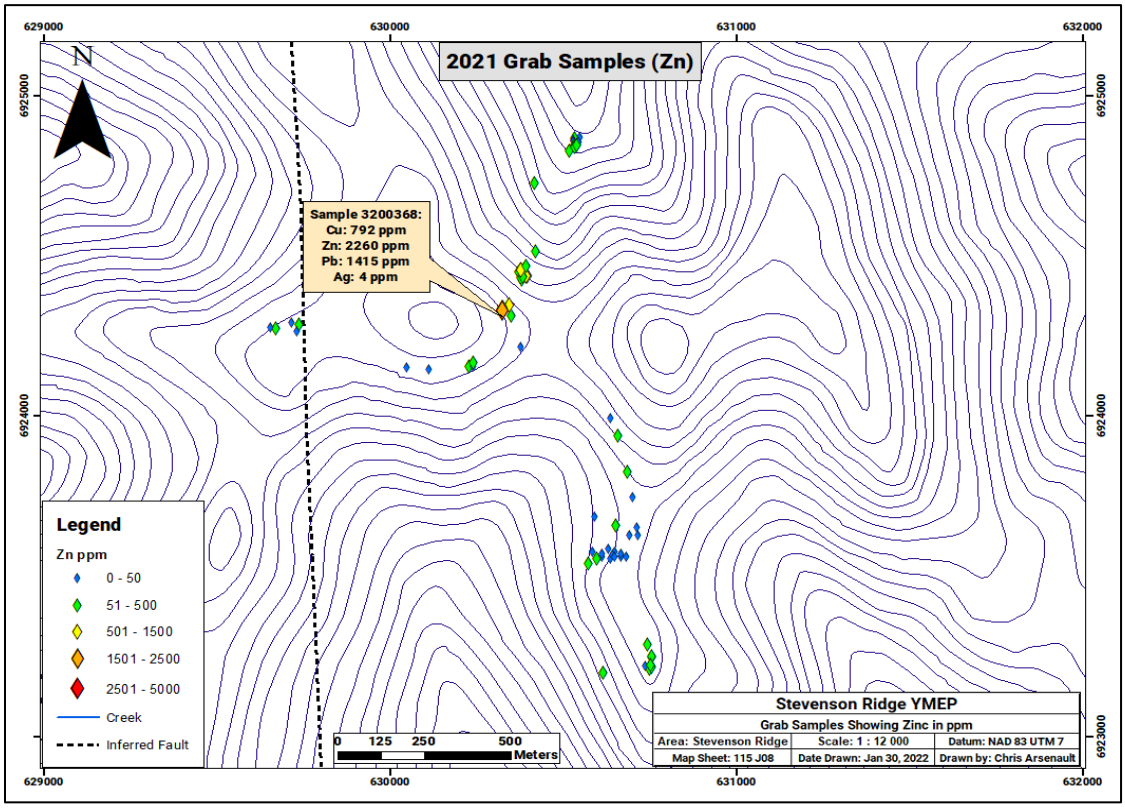

Figure 11: 2021 Grab samples displaying zinc values.

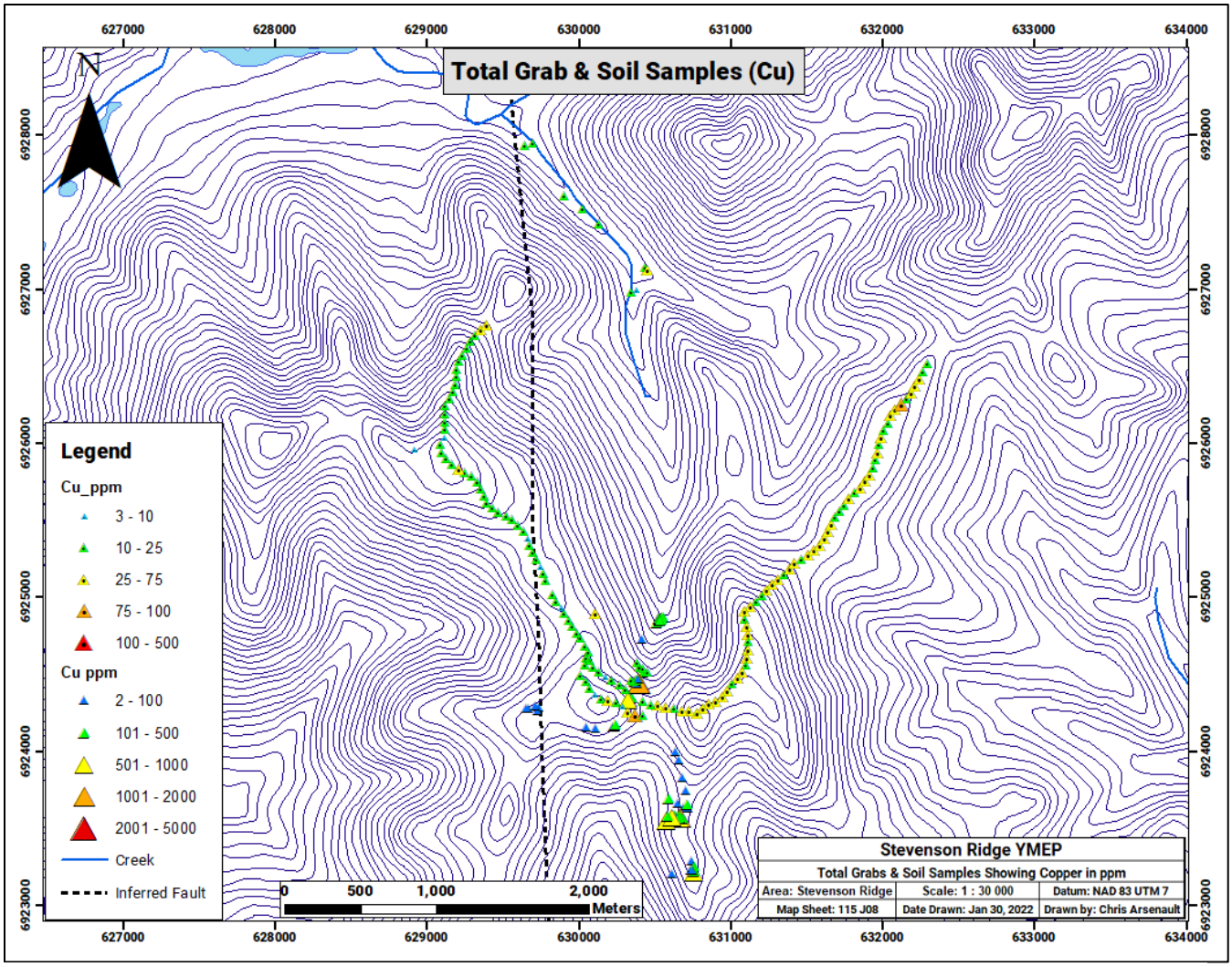

Figure 12: Total rock grabs and soil samples from 2020/2021 field season, displaying copper values.

Figure 13: Monzonite float with trace chalcopyrite, malachite, magnetite, and pyrite. Assayed 0.022 ppm Au, 3.1 ppm Ag, 211 ppm Cu, 673 ppm Pb, 907 ppm Zn. Sample Y643165.

Figure 14: Saddle hosting most significant mineralization. This saddle was located 5km from base camp. More intensive grid sampling is required to better understand the potential of this mineralized monzonite porphyry.

5.0 Geophysical Properties

No geophysical surveys were conducted during the field work in 2019. The residual total magnetic field map was collected from open-source data through the Yukon Geological Survey website..

The geophysical data shows moderate to highly magnetic anomalies on the south western and eastern ridges of the project site. An interesting magnetic low exists in the south-central area, suggesting there could be some structural complexity to the geology. Prospecting should focus on identifying the source of the geophysical anomalies and what relation they may be to any local mineralization.

Future geophysical work should include a ground magnetics survey to provide a higher density dataset which could further target any potential structures or geochemical anomalies in the area for prospecting.

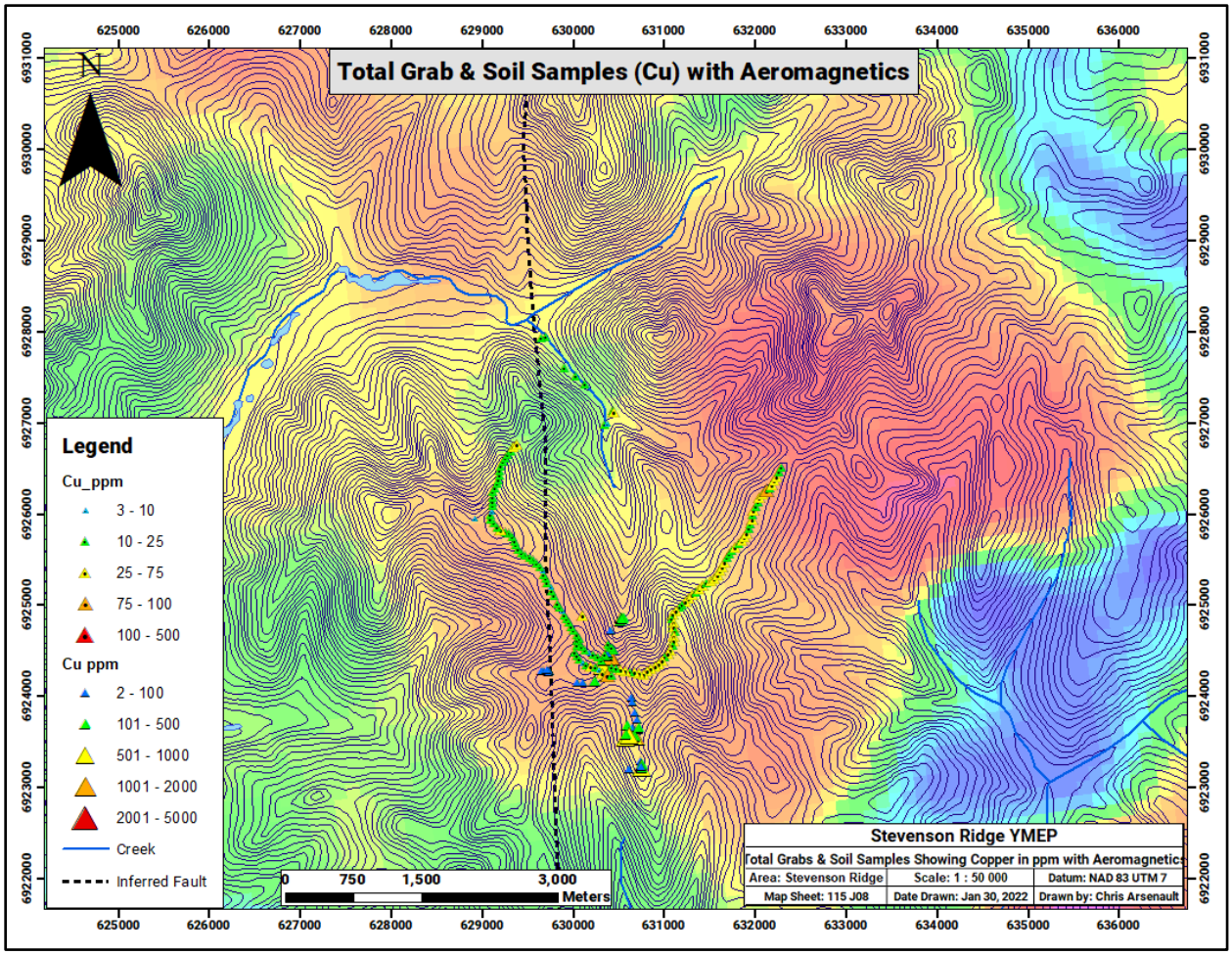

Figure 15: Total grab & soil samples with aeromagnetic overlay.

6.0 Structural Geology

While no detailed structural mapping of the specific project area was found historically, YGS structural data shows an inferred normal fault, oriented north-south through the project area and extending north into the Rude Creek area (Figure 5). The inferred fault appears to be oriented parallel to the bedrock contacts between the Dawson Range Batholith and Upper Carmacks Group, while also striking a parallel orientation with the younger Paleocene Rhyolite Creek volcanics.

Field work included prospecting, mapping, and soil sampling which did not show any strong evidence of a fault in the area. It should be noted that bedrock exposure in the area constitutes less than 1% of the project area. The mineralized monzonite unit which included copper and magnetite mineralization showed cm scale quartz + potassium feldspar veinlets in a saddle which correlates well with where the inferred normal fault is located on YGS structural interpretations. Any definitive structural mapping or interpretations would require more detailed field work and more specifically, geophysical surveys followed by drilling to confirm the presence of faulting.

The high volume of magnetite mineralization associated with chalcopyrite in the southern portion of the sampling area does indicate there is an influx of deep-seated metals reaching the surface, which may indicate faulting beneath the talus covered topography.

7.0 Expenditures

The major expenditure is gaining access to the area which requires a flight into the Casino airstrip from Dawson, and then a ferry to the project site via helicopter. Rock samples were analysed for gold by fire assay and ICP & four acid/ICP multi element analysis (ALS code: AU ICP 21). Additional funding outside of the YMEP grant was provided for additional costs.

EXPENSES	
ITEM	**COST ($)**
Jet Fuel (6 Drums)	$1,485.23
Satellite Phone (Total North)	$63.00
Garmin Inreach Fees	$146.80
Capital Helicopters Casino to Project Site, 4 trips	$9,093.01
Field wages (1 Geologist,1 Prospectors)	$4,800.00
Daily Field Expenses (Food, sample bags, equipment)	$1,800.00
Great River Air - Dawson to Casino, 2 trips	$1,478.28
ALS Assays Invoice	$4,149.30
Flight from Gander NL to Whitehorse YT,(return)	$2,563.07
TOTAL	$25,578.69

Table 5: 2021 Program Expenses

8.0 Conclusion & Recommendations

The past success of correlating high gold values in geochemical stream sediments to localized mineralization, especially in unglaciated geological terrain, makes this a highly prospective target. In comparing the 131.7 ppb Au assayed in this drainage to others around the Dawson and Stevenson Range of the Yukon, the sample stands withing the 99th percentile of the YGS stream sediment dataset and has comparable values to drainages associated with known deposits of the area.

Continued exploration of the extents of the mineralized monzonite should be further explored through soils sampling and prospecting. The entire region south of the Casino deposit hosts potential for Au-Cu porphyries which would benefit from modern stream sediment programs and recognisance prospecting & soil sampling.

9.0 Statement of Qualifications & Reliance on Experts

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 an independent consultant Geologist since 2015 in the Yukon, Ontario, Nova Scotia, Newfoundland and British Colombia. I have been involved in the mineral exploration industry of the Yukon since 2007, and have a thorough understanding of grass roots project generation of the territory. I have prior experience conducting ground based geophysical surveys targeting base metals in Arizona and Minnesota, USA over known economical deposits.
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 31st, 2022

Chris Arsenault, B.Sc.

10.0 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

11.0 Appendix

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Page: 1
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 21-DEC-2021
Account: GEOPLAIN

CERTIFICATE WH21249858

Project: Stevenson Ridge

This report is for 74 samples of Rock submitted to our lab in Whitehorse, YT, Canada on 17-SEP-2021.

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
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Au-ICP22	Au 50g FA ICP-AES finish	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, General Manager, North Vancouver

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Finalized Date: 21-DEC-2021
Account: GEOPLAIN

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method	WEI-21	Au-ICP22	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ca
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
3200351		2.37	0.001	0.7	5.05	<5	1020	1.9	<2	1.24	2.4	7	14	19	4.28	10
3200352		2.16	0.005	<0.5	4.62	5	780	1.8	<2	1.21	3.0	5	14	53	2.81	10
3200353		1.51	0.012	<0.5	5.67	<5	910	2.1	<2	1.65	2.7	6	18	24	3.38	10
3200354		1.47	<0.001	<0.5	1.10	<5	1050	<0.5	<2	0.37	<0.5	2	55	45	1.62	<10
3200355		1.95	0.009	<0.5	6.99	<5	1780	2.1	9	1.69	<0.5	6	13	215	2.77	10
3200356		1.36	<0.001	<0.5	4.11	<5	1010	0.9	<2	0.74	<0.5	3	18	104	1.91	10
3200357		1.32	<0.001	<0.5	0.18	<5	10	<0.5	<2	0.10	<0.5	<1	21	25	1.25	<10
3200358		1.24	<0.001	1.1	8.36	<5	1900	2.6	2	2.35	0.5	12	12	146	4.69	20
3200359		1.09	<0.001	0.9	2.68	6	800	1.4	<2	1.06	<0.5	12	35	306	3.13	10
3200360		1.16	<0.001	<0.5	4.46	<5	2710	1.1	4	0.64	0.5	10	78	96	3.13	10
3200361		1.36	0.019	0.6	3.61	<5	320	1.9	<2	0.93	2.6	3	13	120	3.19	10
3200362		1.31	<0.001	0.5	10.15	23	3380	1.4	<2	3.77	<0.5	12	72	97	4.76	20
3200363		2.30	<0.001	1.1	9.83	50	5110	1.8	7	1.92	8.6	8	9	256	3.86	20
3200365		1.47	<0.001	0.5	10.25	22	4410	1.7	4	3.61	0.6	6	9	216	3.09	20
3200366		1.44	<0.001	1.4	7.98	54	2450	1.6	12	3.04	2.4	7	11	98	3.07	20
3200367		1.60	<0.001	0.5	9.66	19	4360	2.8	2	3.00	<0.5	10	9	226	3.47	20
3200368		1.09	<0.001	4.0	5.00	<5	340	2.1	11	1.44	16.4	10	10	792	3.48	20
3200369		1.24	<0.001	<0.5	8.82	<5	1110	2.4	<2	3.78	0.5	9	9	3	5.27	20
3200370		1.30	0.013	<0.5	7.29	<5	870	1.9	<2	1.41	0.6	4	12	140	1.98	10
1236959		2.12	0.028	<0.5	4.27	<5	200	2.0	2	1.24	2.1	6	20	84	4.05	10
1236960		1.85	<0.001	<0.5	0.63	<5	10	<0.5	<2	0.04	<0.5	<1	17	24	0.99	<10
1236961		1.44	<0.001	0.5	6.14	<5	1210	2.2	<2	1.85	2.0	6	22	95	3.09	10
1236962		1.91	0.012	1.1	0.52	<5	20	1.0	2	0.67	4.9	6	26	138	5.49	<10
1236963		1.82	<0.001	<0.5	2.25	<5	750	1.0	<2	0.77	<0.5	4	78	35	2.35	10
1236964		1.10	<0.001	1.0	6.57	<5	1350	1.9	3	2.84	<0.5	5	15	1585	3.03	20
1236965		1.62	<0.001	1.0	0.12	<5	10	<0.5	<2	0.02	<0.5	1	25	924	1.22	<10
1236966		2.02	<0.001	<0.5	0.14	<5	10	<0.5	<2	0.14	<0.5	<1	27	340	1.05	<10
1236967		1.47	<0.001	<0.5	7.74	<5	1810	2.1	<2	1.85	<0.5	5	14	62	2.78	20
1236968		1.31	<0.001	<0.5	8.18	<5	1640	2.6	<2	2.66	<0.5	10	15	3	4.38	20
1236969		1.48	<0.001	<0.5	8.52	<5	1620	2.7	<2	2.77	<0.5	10	12	2	4.83	20
1236970		1.60	<0.001	<0.5	8.65	<5	1610	2.6	2	2.68	<0.5	11	12	27	4.59	20
1236971		1.28	<0.001	<0.5	8.44	<5	1760	2.8	2	2.32	<0.5	11	11	6	4.51	20
1236972		1.16	<0.001	<0.5	8.74	<5	1680	2.6	<2	2.65	<0.5	12	11	3	4.74	20
1236973		1.55	0.001	0.5	10.05	5	4150	1.8	5	4.32	<0.5	7	11	223	3.54	20
1236974		1.30	<0.001	0.5	11.20	25	4760	1.6	<2	3.18	<0.5	3	7	76	3.12	20
1236975		1.46	<0.001	<0.5	10.85	25	4850	1.8	<2	3.55	<0.5	6	10	73	3.29	20
1236976		1.48	<0.001	<0.5	8.71	<5	1670	2.3	<2	3.37	0.5	16	13	8	5.72	20
1236977		1.74	<0.001	<0.5	8.03	5	1500	2.6	<2	2.50	<0.5	9	12	29	4.03	20
1236978		1.41	0.006	<0.5	8.51	<5	1580	2.7	<2	2.86	0.5	9	14	2	4.31	20
Y643187		1.59	0.025	<0.5	3.55	<5	570	1.4	<2	0.93	0.6	4	29	25	4.00	10

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

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
8200351		2.29	30	0.50	462	2	2.00	2	610	171	<0.01	<5	5	175	<20	0.26
8200352		1.64	30	0.38	446	1	2.16	2	580	148	0.01	<5	4	161	<20	0.24
8200353		2.09	30	0.52	444	1	2.48	2	690	84	<0.01	<5	6	204	20	0.29
8200354		0.58	10	0.17	188	2	0.12	34	860	3	<0.01	<5	3	43	<20	0.07
8200355		2.11	20	0.59	550	<1	2.14	2	390	11	<0.01	<5	6	364	<20	0.17
8200356		1.42	10	0.31	361	1	1.32	3	200	10	<0.01	<5	3	146	<20	0.09
8200357		0.03	<10	0.02	184	1	0.04	1	10	2	<0.01	<5	<1	4	<20	0.01
8200358		3.83	40	1.02	989	2	2.28	4	1470	49	<0.01	7	11	470	20	0.58
8200359		0.83	10	0.87	477	2	0.33	52	1080	8	0.01	<5	9	182	<20	0.15
8200360		1.92	20	1.14	532	1	0.78	46	590	12	<0.01	<5	9	118	<20	0.31
8200361		0.72	20	0.26	630	2	2.07	2	310	94	<0.01	5	3	90	<20	0.16
8200362		1.46	10	1.31	842	3	2.92	46	730	16	0.17	<5	11	742	<20	0.40
8200363		3.56	20	0.58	559	31	2.24	1	670	141	0.53	5	9	487	<20	0.33
8200365		2.35	10	0.64	533	73	2.66	3	810	18	0.59	<5	11	631	<20	0.37
8200366		2.35	20	0.67	633	18	1.54	1	560	164	0.17	<5	12	473	<20	0.24
8200367		2.67	20	0.58	550	40	2.49	3	670	16	0.40	<5	11	518	<20	0.30
8200368		0.24	20	0.39	1540	<1	3.38	4	660	1415	0.01	<5	6	149	<20	0.27
8200369		1.28	30	1.16	642	1	3.98	3	1920	10	<0.01	<5	14	532	<20	0.73
8200370		2.24	20	0.33	350	106	2.92	1	120	75	0.01	<5	2	233	20	0.06
1236959		0.34	20	0.37	509	1	3.06	4	230	63	<0.01	<5	4	79	<20	0.21
1236960		0.02	<10	0.04	138	1	0.34	1	40	39	<0.01	<5	1	5	<20	0.03
1236961		2.73	30	0.54	457	1	2.31	3	780	136	<0.01	<5	6	254	<20	0.32
1236962		0.02	<10	0.19	521	2	0.28	2	20	310	<0.01	<5	1	15	<20	0.03
1236963		1.02	10	0.37	299	49	0.51	62	1330	7	0.01	<5	7	76	<20	0.12
1236964		1.79	20	0.52	691	2	1.85	3	340	12	0.03	<5	5	310	<20	0.14
1236965		0.02	<10	0.02	130	5	0.01	1	20	<2	<0.01	<5	<1	1	<20	0.01
1236966		0.01	<10	0.01	143	4	0.01	<1	<10	<2	<0.01	<5	<1	4	<20	<0.01
1236967		2.28	20	0.65	522	229	2.17	4	430	15	0.01	<5	6	324	20	0.19
1236968		3.82	40	1.01	662	2	2.42	5	1320	10	<0.01	<5	10	419	20	0.53
1236969		3.84	50	0.93	457	2	2.60	4	1470	9	<0.01	<5	12	410	20	0.57
1236970		3.66	50	1.12	804	1	2.23	4	1410	20	<0.01	5	12	405	20	0.55
1236971		3.83	40	0.98	833	1	2.18	5	1400	20	<0.01	<5	10	427	20	0.54
1236972		4.27	40	0.96	848	<1	2.74	4	1530	11	<0.01	<5	12	402	20	0.59
1236973		1.99	10	0.71	601	9	2.78	2	880	13	0.48	<5	9	748	<20	0.38
1236974		2.27	10	0.67	445	8	3.20	<1	920	9	0.22	<5	10	737	<20	0.38
1236975		2.92	10	0.68	573	18	2.36	3	870	10	0.35	<5	9	611	<20	0.41
1236976		3.55	30	1.36	1155	2	2.22	6	1610	13	<0.01	5	14	457	<20	0.69
1236977		3.17	40	0.85	542	1	2.79	3	1270	42	<0.01	8	10	359	20	0.51
1236978		3.63	50	0.97	421	1	2.85	4	1470	8	<0.01	<5	11	389	20	0.56
Y643187		1.37	20	0.29	303	2	1.51	4	400	24	<0.01	<5	3	118	<20	0.18

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

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method Analyte Units LOD	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
3200351		<10	<10	36	50	156
3200352		<10	<10	34	<10	194
3200353		<10	<10	39	<10	100
3200354		<10	<10	115	<10	11
3200355		<10	10	38	<10	37
3200356		<10	<10	21	<10	19
3200357		<10	<10	2	<10	3
3200358		<10	<10	80	<10	133
3200359		<10	<10	66	50	57
3200360		<10	<10	133	10	59
3200361		<10	<10	24	20	157
3200362		<10	<10	76	10	92
3200363		<10	<10	30	30	175
3200365		<10	<10	41	120	49
3200366		<10	<10	37	20	74
3200367		<10	10	41	20	54
3200368		<10	<10	50	<10	2260
3200369		<10	<10	111	<10	34
3200370		<10	<10	22	<10	66
1236959		<10	<10	40	<10	110
1236960		<10	<10	6	<10	51
1236961		<10	<10	48	<10	152
1236962		<10	<10	45	50	235
1236963		<10	<10	207	<10	39
1236964		<10	10	37	<10	32
1236965		<10	<10	4	<10	2
1236966		<10	<10	2	<10	2
1236967		<10	<10	42	<10	43
1236968		<10	<10	71	<10	65
1236969		<10	<10	79	<10	28
1236970		<10	<10	79	<10	95
1236971		<10	<10	75	<10	98
1236972		<10	<10	82	<10	90
1236973		<10	<10	54	20	46
1236974		<10	10	57	20	38
1236975		<10	<10	55	10	56
1236976		<10	<10	101	<10	123
1236977		<10	<10	70	<10	31
1236978		<10	<10	80	<10	21
Y643187		<10	<10	31	10	41

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

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method	WEI-21	Au-ICP22	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ca
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.001	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
Y643188		1.48	0.004	2.3	3.85	<5	740	1.8	3	1.50	18.6	8	16	1415	3.13	10
Y643189		1.33	0.005	4.0	3.15	<5	230	1.5	8	1.35	6.8	4	16	1005	2.33	10
Y643190		1.22	0.038	<0.5	4.60	<5	820	1.7	<2	1.40	2.1	4	15	40	2.97	10
Y643191		1.00	0.015	2.1	6.10	<5	870	2.5	4	1.86	6.5	7	14	243	4.40	20
Y643192		1.49	0.003	0.9	6.33	<5	1070	2.5	3	1.35	1.3	6	17	61	3.58	20
Y643193		1.48	<0.001	<0.5	0.96	5	410	<0.5	<2	0.18	<0.5	2	27	20	1.27	<10
Y643194		1.21	<0.001	<0.5	2.98	<5	1320	1.1	<2	0.45	<0.5	12	78	81	3.96	10
Y643195		1.15	<0.001	1.4	6.14	<5	830	1.8	7	0.40	<0.5	4	9	214	1.90	10
Y643196		1.09	<0.001	<0.5	0.37	<5	70	<0.5	<2	0.09	<0.5	<1	19	337	1.17	<10
Y643197		1.70	<0.001	0.5	5.01	<5	1220	1.4	2	1.13	<0.5	3	18	462	2.27	10
Y643198		0.95	<0.001	<0.5	0.08	<5	<10	<0.5	<2	0.09	<0.5	<1	30	233	1.22	<10
Y643199		1.37	<0.001	3.3	6.98	<5	1740	2.1	21	1.72	0.8	4	16	692	2.58	20
Y643200		1.18	<0.001	1.1	0.31	<5	60	<0.5	12	0.10	<0.5	<1	20	129	1.07	<10
1539551		1.31	<0.001	1.7	6.98	10	190	5.4	2	6.18	0.9	22	64	950	8.82	30
1539552		1.20	<0.001	<0.5	1.20	<5	280	<0.5	2	0.42	<0.5	3	24	107	1.66	<10
1539553		1.97	<0.001	<0.5	6.51	<5	3940	1.9	2	3.25	0.6	29	133	62	6.73	20
1539554		1.00	<0.001	1.1	3.85	12	1910	1.1	14	0.66	<0.5	18	56	764	3.19	10
1539555		1.87	<0.001	<0.5	6.27	<5	1760	1.4	2	1.70	<0.5	15	113	100	4.40	20
1539556		0.88	<0.001	<0.5	0.46	<5	150	<0.5	2	0.06	<0.5	1	23	13	1.15	<10
1539557		1.18	<0.001	0.6	6.97	<5	1290	2.4	<2	1.55	<0.5	5	14	2	2.19	20
1539558		1.18	0.013	<0.5	7.47	<5	1440	3.2	<2	1.89	<0.5	11	11	6	9.33	20
1539559		1.63	<0.001	0.6	1.94	<5	690	0.8	<2	0.40	0.6	8	41	233	3.38	10
1539560		1.18	<0.001	<0.5	9.41	38	3660	1.7	<2	3.81	<0.5	7	7	104	3.20	20
1539561		1.21	0.002	0.6	9.19	31	4480	1.9	2	3.12	<0.5	6	9	175	2.62	20
1539562		1.32	<0.001	<0.5	9.88	11	5690	2.0	<2	1.76	<0.5	5	8	115	3.26	30
1539563		1.03	0.012	<0.5	2.40	<5	410	1.0	<2	0.70	1.1	4	18	60	2.54	10
1539564		1.25	0.103	2.1	0.49	<5	10	0.5	18	0.07	4.0	3	18	362	2.39	<10
1539565		1.66	0.002	0.6	1.52	<5	340	0.8	<2	0.51	3.1	3	20	242	2.39	<10
1539566		1.19	0.001	<0.5	7.55	<5	1080	1.8	<2	3.44	<0.5	13	10	14	5.25	20
1539567		1.13	<0.001	<0.5	7.69	10	1660	2.7	<2	1.05	<0.5	3	12	7	2.33	20
1539568		1.39	0.002	<0.5	6.84	<5	870	1.7	<2	1.11	<0.5	3	12	2	2.07	10
1539569		1.23	<0.001	<0.5	3.23	<5	590	1.1	<2	0.86	<0.5	3	17	9	2.98	10
1539570		1.08	0.002	<0.5	6.81	<5	870	1.9	2	1.35	0.9	6	14	35	3.82	20
1539571		1.28	0.018	<0.5	5.26	<5	1290	1.2	<2	0.66	<0.5	1	16	5	1.05	10

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

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
Y643188		1.48	30	0.38	1200	<1	1.48	3	600	859	0.01	<5	4	164	<20	0.19
Y643189		0.44	20	0.22	667	<1	1.88	1	450	743	0.01	<5	3	96	<20	0.15
Y643190		1.80	30	0.42	363	1	1.92	3	560	66	<0.01	<5	4	174	<20	0.23
Y643191		1.92	30	0.62	663	2	3.14	2	680	1180	<0.01	<5	6	198	20	0.32
Y643192		2.75	40	0.51	606	1	2.63	4	690	243	<0.01	<5	6	211	20	0.29
Y643193		0.29	<10	0.12	191	2	0.14	5	120	3	0.01	<5	1	23	<20	0.04
Y643194		1.36	10	1.14	878	1	0.68	64	660	3	0.01	<5	7	74	<20	0.23
Y643195		4.58	10	0.12	147	2	1.58	2	90	40	<0.01	<5	2	73	20	0.03
Y643196		0.09	<10	0.05	220	6	0.07	2	40	3	0.01	<5	1	6	<20	0.01
Y643197		1.63	20	0.39	464	2	1.55	4	260	12	0.01	<5	4	208	<20	0.12
Y643198		0.01	<10	<0.01	143	3	0.01	2	<10	<2	<0.01	<5	<1	2	<20	<0.01
Y643199		2.32	20	0.53	560	5	2.32	2	360	84	0.01	<5	5	326	<20	0.16
Y643200		0.09	<10	0.03	129	53	0.07	2	20	18	<0.01	<5	<1	9	<20	0.01
1539551		0.59	50	1.23	3170	9	1.46	37	870	32	0.05	<5	12	330	20	0.38
1539552		0.37	10	0.26	379	66	0.20	9	440	5	<0.01	<5	2	32	<20	0.06
1539553		2.16	30	2.83	1470	2	1.04	96	2080	8	0.02	<5	19	299	<20	0.88
1539554		1.46	20	0.81	467	3	0.45	142	400	7	0.01	<5	6	120	<20	0.22
1539555		1.83	20	1.73	1050	11	1.47	75	600	10	0.01	<5	14	231	<20	0.38
1539556		0.17	<10	0.13	169	1	0.10	10	100	<2	<0.01	<5	1	9	<20	0.04
1539557		3.31	40	0.56	369	1	2.85	3	820	183	<0.01	<5	6	269	20	0.35
1539558		4.56	50	0.56	827	1	2.59	4	800	17	<0.01	<5	6	256	20	0.36
1539559		0.62	10	0.58	363	4	0.23	41	170	17	0.02	<5	5	37	<20	0.10
1539560		1.92	10	0.62	525	5	2.49	<1	800	14	0.30	<5	7	614	<20	0.40
1539561		2.81	10	0.60	481	2	2.79	1	740	17	0.38	<5	8	523	<20	0.34
1539562		4.09	10	0.87	736	4	1.86	3	590	12	0.19	<5	11	233	<20	0.28
1539563		0.70	20	0.26	622	1	1.20	2	350	108	<0.01	<5	3	80	<20	0.14
1539564		0.02	<10	0.06	221	1	0.22	1	40	938	<0.01	<5	<1	6	<20	0.02
1539565		0.65	10	0.13	513	1	0.56	1	180	155	<0.01	<5	1	53	<20	0.07
1539566		1.40	20	1.08	872	1	2.65	3	1080	38	<0.01	<5	9	559	<20	0.46
1539567		4.63	50	0.28	316	1	2.25	3	320	28	<0.01	<5	4	223	30	0.19
1539568		2.72	20	0.50	316	<1	2.44	3	260	25	<0.01	<5	4	176	20	0.13
1539569		1.00	20	0.35	289	1	1.46	2	540	12	<0.01	10	4	163	<20	0.21
1539570		1.85	40	0.60	533	1	3.55	2	1090	205	<0.01	<5	9	217	20	0.42
1539571		2.65	20	0.10	143	81	2.07	1	90	21	<0.01	<5	1	145	20	0.04

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

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

Page: 3 - C
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 21-DEC-2021
Account: GEOPLAIN

Project: Stevenson Ridge

CERTIFICATE OF ANALYSIS WH21249858

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	10	10	1	10	2
Y643188		<10	<10	49	<10	1055
Y643189		<10	<10	37	<10	1045
Y643190		<10	<10	33	<10	79
Y643191		<10	<10	57	10	1070
Y643192		<10	<10	41	10	126
Y643193		<10	<10	24	<10	14
Y643194		<10	<10	132	10	102
Y643195		<10	<10	8	<10	17
Y643196		<10	<10	5	<10	6
Y643197		<10	<10	29	<10	24
Y643198		<10	<10	1	<10	<2
Y643199		<10	<10	38	10	45
Y643200		<10	<10	3	<10	<2
1539551		<10	<10	126	220	130
1539552		<10	<10	24	<10	14
1539553		<10	<10	215	10	177
1539554		<10	<10	95	<10	46
1539555		<10	<10	142	<10	79
1539556		<10	<10	17	<10	6
1539557		<10	<10	43	10	59
1539558		<10	<10	55	60	71
1539559		<10	<10	51	<10	74
1539560		<10	<10	46	50	49
1539561		<10	<10	35	70	46
1539562		<10	<10	43	30	48
1539563		<10	<10	21	20	108
1539564		<10	<10	27	<10	531
1539565		<10	<10	21	10	215
1539566		<10	<10	90	<10	80
1539567		<10	<10	13	<10	43
1539568		<10	<10	29	<10	47
1539569		<10	<10	30	<10	20
1539570		<10	<10	56	<10	84
1539571		<10	<10	15	10	19

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CERTIFICATE OF ANALYSIS WH21249858

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	PUL-31
	PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-ICP22	ME-ICP61