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**Assessment Report on the Van Horne Project
2020 Exploration Program**

**Prepared for
KG Exploration (Canada) Inc.**

NTS 52 F/10

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1.0 Summary

The 2020 exploration program on the Van Horne Property was conducted by Clark Exploration and Consulting Inc. (“Clark Exploration”) on behalf of KG Exploration (Canada) Inc. (“KG Exploration”). The goal of the program was to follow-up on the successes of the 2019 program while also further developing new target areas.

The Van Horne property comprises a tract of mining claims and patent claims located approximately 8 km south of Dryden, ON. The property is accessible using a combination of paved highways, gravel roads, and trails. Highway 502 transects the western portion of the property. Wabigoon Lake Road runs east of Highway 502 and provides access to the eastern half of the property. The eastern edge of the property can also be accessed by water (Wabigoon Lake).

The 2020 Van Horne exploration program was executed in three distinct phases. The winter drilling phase which took place from February 10th to April 3rd, the geological outcrop mapping phase which took place from May 13th to August 2nd and the summer drill phase which ran from August 1st to October 5th. During the winter drilling phase, 2,829 m of diamond drilling was done on the Glatz area, further exploring a target that produced anomalous gold values during the 2019 program. Geological outcrop mapping was completed in select areas to collect lithological and structural data and to both further develop existing prospects and discover new prospects for future programs. During the summer diamond drill phase, 4,189 m were drilled. This drilling focused on targets mapped during 2020 and the Vanlas area which was the site of historic resource drilled in the late 1980’s. 276 grab samples were collected across the property with the aim of delineating mineralized trends and prospects.

Drilling in the Vanlas and Redeemer areas yielded anomalous gold values. These values provided validity to the numbers obtained in historic drill holes in the area. Grab sampling results from the 2020 program have provided prospective targets for future exploration in both areas with known gold occurrences, and historically under explored portions of the property.

The purpose of the report is to satisfy work requirements with the Ontario Ministry of Energy, Northern Development and Mines (ENDM) on the mining (non-patent) claims. A total of \$1,840,316.62 of work was completed during the 2020 program. Full list of expenditures can be found in Appendix A.

2.0 Introduction

This report has been produced for KG Exploration (Canada) Inc. (“KG Exploration”) to document the work completed and results obtained during the 2020 exploration program at Van Horne, and to satisfy the assessment reporting requirements of the Ontario Ministry of Energy, Northern Development and Mines (ENDM). Clark Exploration Consulting Inc. (“Clark Exploration”) was engaged by KG Exploration to complete the 2020 Van Horne fieldwork and report composition. This report has been prepared on the basis of field observations, previous assessment reports filed with ENDM, data reports supplied by KG Exploration, regional geological publications by academic institutions and the ENDM, and fieldwork undertaken by Clark Exploration or other subcontractors under supervision of the author.

3.0 Property Description & Location

Van Horne is located in the Kenora Mining District, 8 km south-west of Dryden, Ontario (Figure 1). The property straddles the borders of the Van Horne Township, Aubrey Township, Buchan Bay Area, and Contact Bay Area. The Property is comprised of 333 mining cell claims and 12 mining patent claims, covering approximately 6,197 hectares (62 km²) (Fig. 2,3). The property is centered at approximately 49°42’ N, 92°54’ W (UTM NAD83 Zone 15, 0507000m E, 5507000m N) on NTS 52F/10.

The property consists of one contiguous claim block, situated between the Migisi Sahgaigan Eagle Lake First Nation and Wabigoon Lake and is bisected by Ontario Highway 502. Originally, physically staked with claim posts, 2018 changes to the claim registry system through ENDM saw all mining cell claims digitally generated through the Ontario Mining Lands Administration System (“MLAS”). The new MLAS cells are 460 x 450 m or a portion thereof. Van Horne mining cell claims total 6,197 ha (Figure 2). There are 13 owned patent mining claims at Van Horne, ranging from 9 to 66 ha, totaling 253.736 ha (Figure 3). Claims data is summarized in Appendix C.

All claims are 100% owned by Pure Gold Mining and under option to KG Exploration. Mining cell claims confer mineral tenure only; surface tenure is held either by the crown or by surface rights owners (SRO’s) with whom an agreement to conduct work has been procured. The mining patent claims are a mix of surface and mining rights or mining only.

There are 17 historical mine shafts on the property at 12 different prospects. The shafts are aligned in an east to west trend between highway 502 and Contact Bay on Wabigoon Lake (Figure 9) and correspond to the majority of known mineralized areas on the property

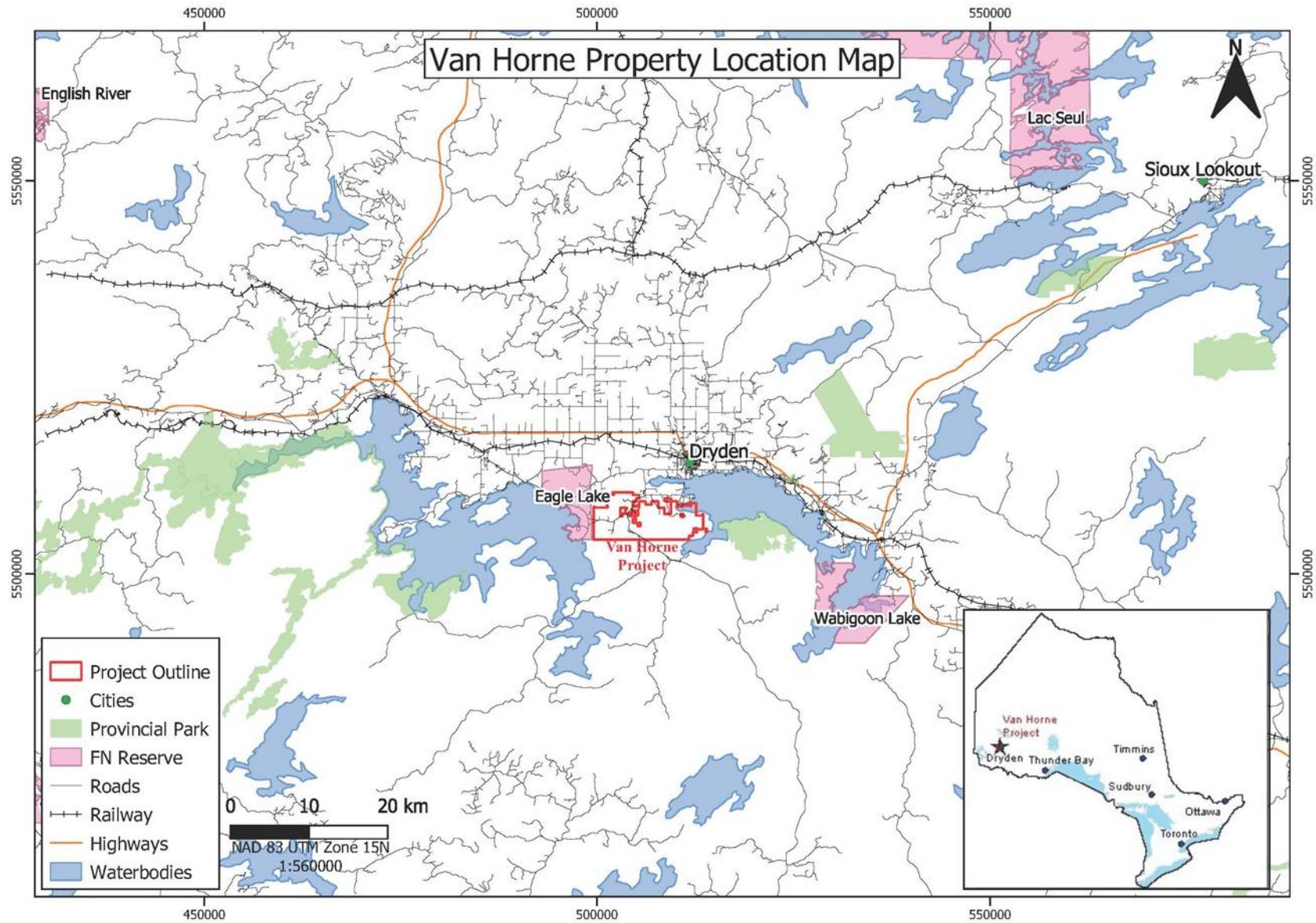


Figure 1: Van Horne Property Location Map

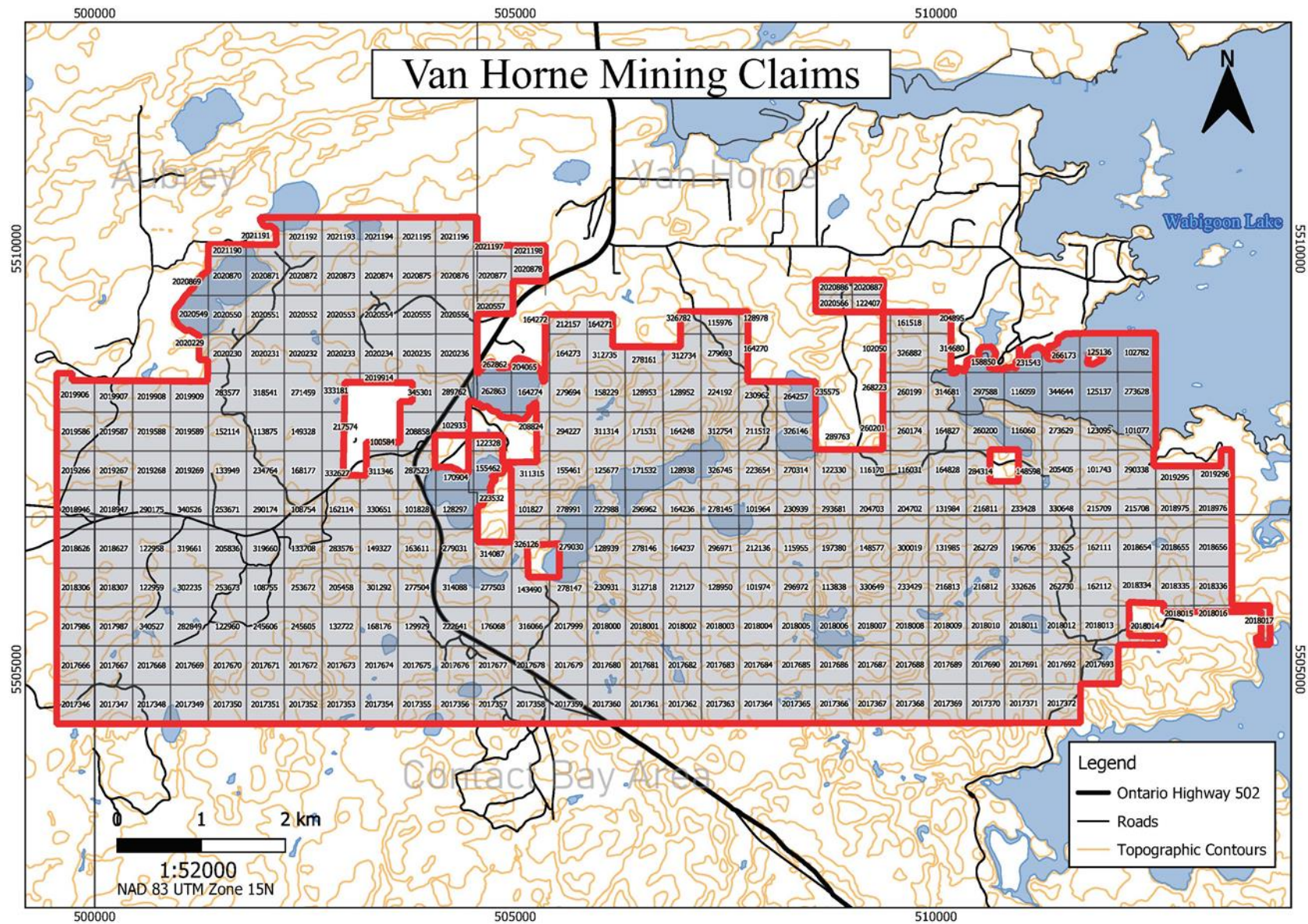


Figure 2: Van Horne Property Mining Claim Map

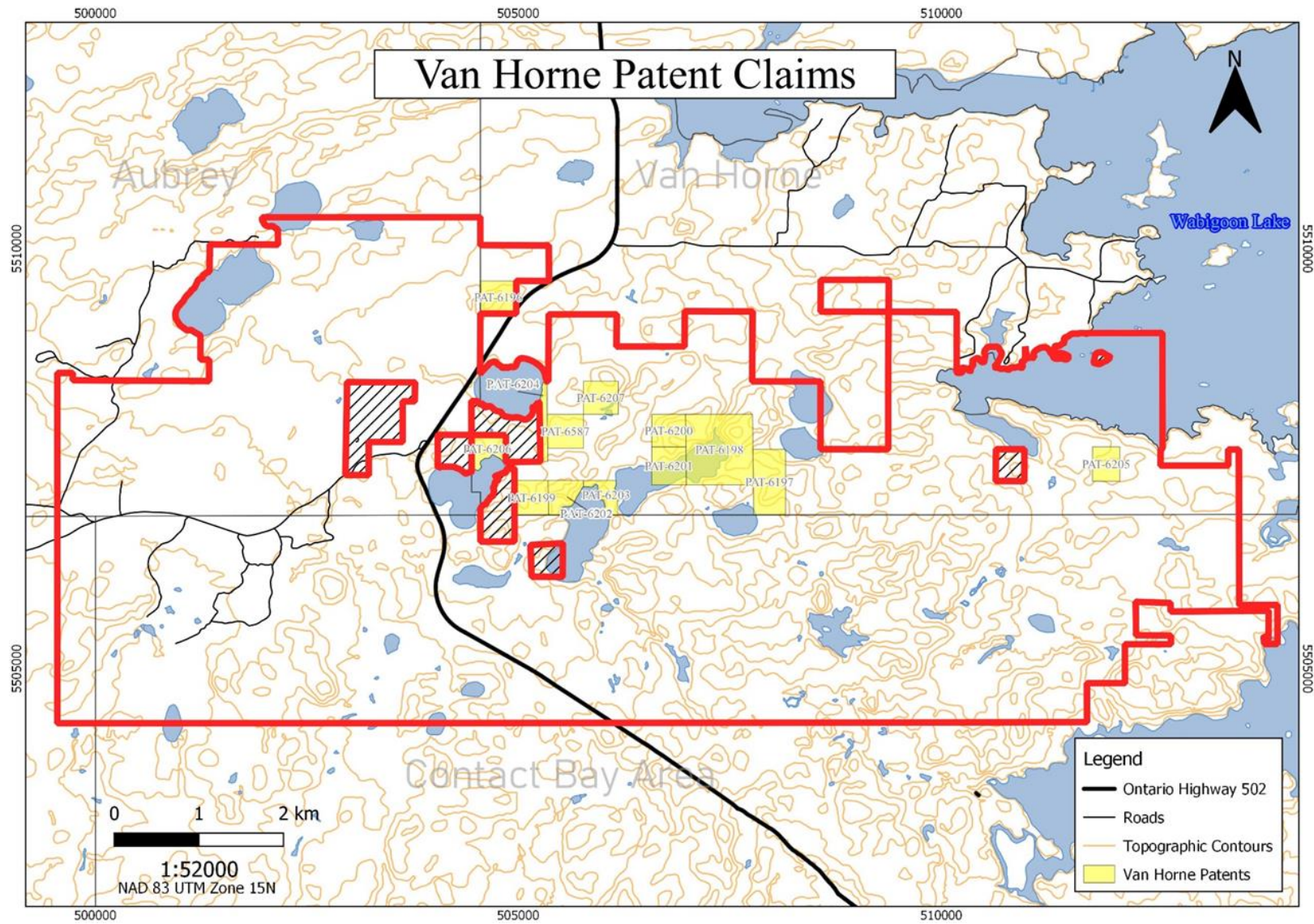


Figure 3: Van Horne Patent Claims Map

4.0 Accessibility, Climate, Local Resources, Infrastructure, Physiography

4.1 Accessibility

Access to the property is primarily via roads/trails off of Highway 502. Access to the west half of the property can be gained via private roads and UTV trails that extend east between Pritchard Lake and Flambeau Lake and provide access to the historic Vanlas shafts. Access to the extreme west can be made via Ojibway Road.

Access to the east side of the property can be gained by traveling east on Wabigoon Lake Road for 3.0 km from Highway 502. At 3.0 km there is a southbound logging road (Old Contact Bay Road), that has been recently (2019) refurbished for logging purposes and is fit for a 4WD truck. This road extends southbound and at 2.5 km turns into a T-Junction with roads/trails extending both east and west. Turning eastward and extending 2.0 km the road heads towards Larson Bay of Wabigoon Lake. After Larson Bay, the road again heads south and is less maintained and is more suitable for a UTV. Turning west provides access to the historic Bonanza, Drake and Good Luck shafts. A smaller ATV trail at the 3.2 km mark of Old Contact Bay Road provides access to the historic Redeemer and Larson shafts.

In addition to roads/trails, the property can also be accessed via water. Larson Bay in the east corner of the property is approximately 8 km from the public docks in Dryden. The property contains numerous small lakes that drain north through McLeod Creek into Manitou Lake. The lakes are small and shallow, varying from 5-15 m in average depth, and the creek is not navigable.

4.2 Local Resources and Infrastructure

Dryden, Ontario, is a natural-resource industry regional hub with a population of approximately 5,586 (2016 Statistics Canada Census). Exploration services including equipment contractors, fuel, groceries, accommodations and regional flights to primary airports such as Winnipeg are available in the town. The primary local industry is pulp and paper, with a large mill owned by Domtar located in the town.

Dryden and the surrounding area are serviced by high power transmission lines and have direct access to trans-continental rail and the Trans-Canada Highway (Highway 17).

4.3 Physiography and Climate

Van Horne covers part of the Canadian Shield of northwestern Ontario, an area dominated by low rocky hills and abundant lakes. Van Horne is located between two large lakes, Eagle Lake and Wabigoon Lake and hosts seven smaller lakes within or along the property margin.

Terrane on the property consists mostly of low-lying swampy areas, gently rolling second-growth forests, and abrupt, rocky, cliffs and bluffs. There is less than 100 m of relief between the lowest and highest points on the property. Elevations range from 368 m on Wabigoon Lake to 436 m above sea level at the top of one of the ridges.

The forests are a second growth mixture of deciduous (birch and alder) and evergreen (pine, spruce and cedar) trees, while the low-lying areas are dominated by muskeg, dense pockets of slide-alder and/or grasses. Thick deposits of glacial till and lacustrine sediments are present in low lying areas while a soil horizon is practically non-existent on the areas of higher elevation.

The climate at Van Horne is classified as “Humid Continental (Dfb)” with cold winters (mean daily temperature below -3°C) and mild to warm summers (mean daily temperature below 20°C) (Table 1).

Table 1: 1981-2010 Canadian Climate Normals Station Data, Dryden

1981 to 2010 Canadian Climate Normals station data													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Temperature													
Daily Average (°C)	-16.8	-12.7	-5.8	3	10.8	16.2	18.9	17.8	11.7	4.2	-5.2	-13.5	2.4
Standard Deviation	3.7	4.2	2.7	2.5	2.1	2.1	1.4	1.9	1.7	1.9	3.4	4.1	1.2
Daily Maximum (°C)	-11.6	-7.3	-0.1	8.8	16.9	21.7	24.3	23.1	16.5	8.2	-1.6	-9.1	7.5
Daily Minimum (°C)	-21.9	-18.1	-11.5	-2.8	4.7	10.5	13.4	12.4	6.8	0.3	-8.8	-17.8	-2.7
Precipitation													
Rainfall (mm)	0.2	2.1	6.7	24.7	69.2	115.2	103.1	83.5	87.7	49.2	13	1.2	555.8
Snowfall (cm)	30.1	19.9	25.1	13.9	3.4	0	0	0	1.1	14.6	35.3	31.1	174.7
Precipitation (mm)	26.5	20	29.9	39.6	73.4	115.2	103.1	83.7	88.9	63.6	46.7	29.1	719.7
Average Snow Depth (cm)	30	34	27	5	0	0	0	0	0	1	8	19	10
Median Snow Depth (cm)	30	34	27	2	0	0	0	0	0	0	7	19	10
Snow Depth at Month-end (cm)	34	33	15	0	0	0	0	0	0	1	12	24	10
Days with Maximum Temperature													
<= 0 °C	29.7	23	14.9	3	0.13	0	0	0	0	2.2	18.4	27.7	119.1
> 0 °C	1.3	5.3	16.1	27	30.9	30	31	31	30	28.8	11.6	3.3	246.2
> 10 °C	0	0.09	2.1	12.5	26.3	29.6	31	31	26.3	11	1.1	0	171
> 20 °C	0	0	0	1.8	10.2	18.7	26.6	23.3	7.7	0.73	0	0	89
> 30 °C	0	0	0	0	0.42	1.5	1.8	2.1	0.17	0	0	0	6
> 35 °C	0	0	0	0	0	0.08	0.05	0.09	0	0	0	0	0.22
Days with Minimum Temperature													
> 0 °C	0	0.17	1.8	8.4	25.3	29.9	31	31	27.2	15.2	2	0.09	172.1
<= 2 °C	31	28.3	30.7	25.3	9.5	0.63	0.05	0.13	5.4	21.2	28.9	31	212.1
<= 0 °C	31	28.1	29.2	21.5	5.8	0.13	0	0.04	2.8	15.8	28	30.9	193.1
< -2 °C	30.9	27	26.8	15.4	2.6	0	0	0	0.48	9.5	25	30.5	168.1
< -10 °C	27.9	21.1	15.8	3.2	0.04	0	0	0	0	0.32	11.5	22.9	102.7
< -20 °C	17.9	13	5.5	0.21	0	0	0	0	0	0	2.3	12.5	51.5
< -30 °C	6.3	2.9	0.58	0	0	0	0	0	0	0	0.13	2.8	12.6

5.0 History

5.1 Exploration and Economic Evaluation

Gold exploration and mining occurred in the Dryden area primarily from 1888-1912 (Parker, J.R. 1989). Approximately 20 shafts were sunk on or near the property with four mines: Bonanza, Redeemer, Rognon, and Vanlas reporting a combined production of 643.62 oz Au from 1904-1933 (Joliffe, T.S., 1984).

1980-1989: Multiple Junior Explorers

Following the demise of the local gold mining industry before WWII, the area lay dormant until a resurgence of exploration activity led by the junior mining sector in the 1980's. *Van Horne Exploration/Moss Exploration/Power Exploration* worked the Bonanza-Redeemer and Vanlas areas from 1981-89. The majority of the work was an extensive, but relatively shallow, drill program (15,028 m, 128 holes) on the Vanlas occurrence in 1987-88 that resulted in the delineation of a historic resource of 55,000 tons at 0.30 oz/t Au (Kidd #1 & #2 Zones, Joliffe, 1988). A drill program of 13 shallow drill holes (815 m) outlined an additional resource of 4,834 tons at 0.24 oz/t Au beneath the Bonanza shaft (Kidd, 1981).

Voyager Exploration completed limited drilling and surface work over the Flambeau Lake East Zone to the south of Vanlas in the early 1980's, followed by surface work by *Kidd Creek Mines Ltd.* and *Falconbridge Ltd.* In 1988-89, *International Platinum* completed an extensive drill program (3,575 m, 30 holes) that delineated a poorly defined resource of 572,000 tonnes of "...possibly economic material" from the East Zone vein array (Burden, 1989).

Throughout the 1990's limited work was completed in the area and was primarily conducted by local prospectors who worked on many of the pre-existing surface occurrences, reconfirming historical values and in some cases adding additional size potential and context.

2008-2011: Laurentian Goldfields

In 2008 Laurentian Goldfields Ltd. secured the Van Horne property and conducted rock, soil and lake sediment geochemical surveys across the property every 400 m x 100 m. Results delineated strong anomalies over known mineralization, along strike from known deposits and potentially identified new unexplored anomalous zones. Positive results from the geochemical surveys facilitated Laurentian Goldfields to increase their land position.

In 2009, Laurentian Goldfields expanded and infilled their 2008 geochemical surveys, trenched and conducted a detailed airborne magnetic survey. The property was comprehensively sampled at 100 m x 100 m spacing using rock, MMI soil and lake sediment geochemical analysis. Seven trenches were excavated to test strong gold geochemical anomalies, determine the extent of the mineralized shears and quartz veins and to better understand the lithological and structural relationships on the property. The detailed airborne magnetic survey revealed two strong magnetic anomalies interpreted to be hydrothermal magnetite. The results of this work led to the identification of three potential drill targets; Flambeau Lake, Drake - Bonanza and Gator and in 2011 Laurentian Goldfields drilled 10 holes totalling 2,523 m into the Flambeau Lake target.

Recent Exploration

In 2018 Pure Gold Mining completed an extensive exploration program which included; diamond drilling, MMI, surface mapping and sampling and a detailed structural overview. The field work was carried out by Equity Exploration Consultants on behalf of Pure Gold Mining. The objective of this program was to reassess the economic potential of the Van Horne area following the consolidation of disparate claims, and to deepen the understanding of how gold mineralization on the property is related to structural and alteration controls.

Diamond drilling (672 m, 6 holes) was completed near the historical Drake – Good Luck shafts to assess the vertical extent and continuity of mineralization found at surface. An additional 285 m of diamond drilling (3 holes) was carried out in the vicinity of the historical Vanlas occurrence in order to validate drilling carried out in the 1980s. 229 rock samples were collected across the property with the aim of delineating mineralized trends and prospects. 783 mobile metal ion (MMI) soil samples were taken to increase sample density from a 2008 geochemical survey, and to define new areas prospective for further exploration on newly acquired claims. Geological outcrop mapping with a structural focus was completed across the property to locate and define the nature of the deformation corridors on the property, and to produce a new lithologic interpretation aided by a 739 line-km airborne magnetic survey contracted by Pure Gold.

The most recent work on the property occurred in 2019. KG Exploration completed a three-phase exploration program consisting of geological field mapping, mechanized stripping and drilling. The field work was carried out by Clark Exploration Consulting Inc. on behalf of KG Exploration. The work was predominately focused around historic shafts and occurrences including the Bonanza, Vanlas, League-Lost, Redeemer-Larson, Lone Jack and Glatz

Geological outcrop mapping was completed in select focus areas to collect lithological and structural data and to develop prospects for future programs. Over 9,600 m² of mechanized stripping was performed to create three exposures, two in the Glatz area and one in the Bonanza area. 3,527 m of diamond drilling was completed in the areas proximal to the strippings. 188 grab samples were collected across the property with the aim of delineating mineralized trends and prospects. 469 channel samples were collected on mechanized and hand stripped areas with the aim of producing gold values to develop them into drill targets.

5.2 Government Mapping

The property is located in the northwest portion of the Eagle-Wabigoon-Manitou Lakes greenstone belt (Blackburn et al., 1991) and is more currently referred to as within the Atikwa domain e.g. (Beakhouse, 2002), which comprises the predominantly juvenile arc assemblages surrounding the Atikwa batholith.

Rudimentary mapping was completed in the early 1900's by the Ontario Department of Mines and by the Geological Survey of Canada during site visits by Parsons (1911), Thomson (1917), and Bruce (1925). Thomson produced a small-scale map for the Bonanza-Redeemer area.

The first and only comprehensive mapping for Van Horne was completed in back-to-back programs over the Eagle Lake (Moorehouse, W.W., 1939) and Wabigoon Lake (Satterly, 1943) areas prior to 1941, both at a scale of 1:63,360 (Maps 48d and 50e).

Trowell et al., 1980 compiled the geology of the area utilizing historical work (e.g. Satterly, 1943), new mapping for the Manitou Lakes area, and augmenting the study area from the Lake of the Woods to Savant Lake with geochemical analysis and an overall regional update in an attempt to bring the 1940's era mapping into a modern context. The report interpreted three geological assemblages in the property (Eagle River, Lower Wabigoon, and Upper Wabigoon volcanics) and identified that the Upper Wabigoon volcanics were iron-rich tholeiites similar to the Boyer Lake volcanics. This work represents the only belt-scale lithogeochemical evaluation of the geological assemblages in the property area.

In the late 1980s, the property was remapped (Scheinbein, R. and Parker, J.R., 1988a) as part of a multi-year evaluation of the gold deposits by the district's Economic Geologist ((Parker, J.R., 1989), (Parker, J.R., 1990)). The property visit component provided a much-needed update of the occurrence data for this part of the Kenora district, but the geological component was limited. No significant geochemical work was completed on the belt during this evaluation and concluding remarks include: "Controls on gold deposits in the area have not been well documented or understood."

The Van Horne area was compiled into open file map GDIF 396 during this period (Ontario Geological Survey, 1987), which subdivided volcanic rocks into mafic, intermediate and felsic composition.

A brief program was completed by Beakhouse that focused on the Wabigoon Fault from the Manitoba border to the Sioux Lookout area, including the area immediately to the north of the property (Beakhouse, 1988).

A province-wide compilation of the geology of Ontario was published in 1991 that included a summary of the Wabigoon Subprovince by Blackburn et al., 1991; however, all descriptions for the property are primarily repetition of the earlier work by Trowell et al., 1980. While the Western Superior NATMAP program updated many areas, it did not include any work on Van Horne and much of the area south and west of Dryden.

In addition to geological mapping, the area has been covered by regional aeromagnetic and gravity geophysical surveys and regional lake sediment geochemical surveys by the Geological Survey of Canada. The regional geophysical surveys were augmented by provincial work and are compiled in ERLIS Geophysical Data Set 1036 (Ontario Geological Survey, 1999).

Operation Treasure Hunt was a 2-year program initiated by the OGS in 1999 that resulted in a new airborne magnetic and electromagnetic survey (Ontario Geological Survey, 2002) and detailed lake sediment sampling over the property (Russell, D.F., 2004; Felix, V.E., 2005), to improve on existing regional coverage by earlier GSC programs. The Electromagnetic MEGATEM survey was flown in 2002 with a nominal terrain clearance of 70 m with a 200m line spacing and the flight line direction for block 5, covering Van Horne, was 054 degrees – 234 degrees (Ontario Geological Survey, 2002).

6.0 Regional Geology and Mineralization

The information presented in this section is primarily sourced from (M. Chiang, S. Meade, C. Rennie, 2012).

The property lies within the Superior Province, along the northern flank of the Eagle-Wabigoon-Manitou Lakes greenstone belt within the western Wabigoon Subprovince (Figure 4,5). The Wabigoon Subprovince is a 900-km-long and 150-km-long amalgamation of greenstone belts and platformal carbonate sequences underlain by granite-gneiss suites (Blackburn et al. 1991; Kusky and Hudleston 1999). The east-northeast trending greenstone belts comprise of Mesoarchean and Neoproterozoic assemblages subdivided into western, central, and eastern subsections.

The property occurs within the western subsection that is underlain by primarily Neoproterozoic juvenile arc assemblages and Timiskaming-type arc-rift basins with alkalic syn to late tectonic intrusions and flows. Trowell et al. (1980) identified three main assemblages south of Dryden between the Wabigoon fault and the Atikwa batholith that include the Eagle Lake, Lower Wabigoon, and Upper Wabigoon volcanics (Figure 5).

The volcanics are truncated to the north by the Wabigoon fault that separates the predominantly greenschist metamorphic facies volcanic rocks from the amphibolite facies Zeeland sediments to the north. The Zeeland sediments are late orogenic Timiskaming-type subaerial to shallow marine sediments and are part of a series of variably aged sediments that include Warclub sediments from the Savant Lake belt, Minnitaki Group sediments from the Sioux Lookout area, Crowduck Lake group and White Partridge Bay group sediments from the Kenora area, Stormy Lake group sediments southeast of the property, and potentially coeval Quest Lake sediments from the Sturgeon Lake belt with associated with late tectonic alkalic intrusions.

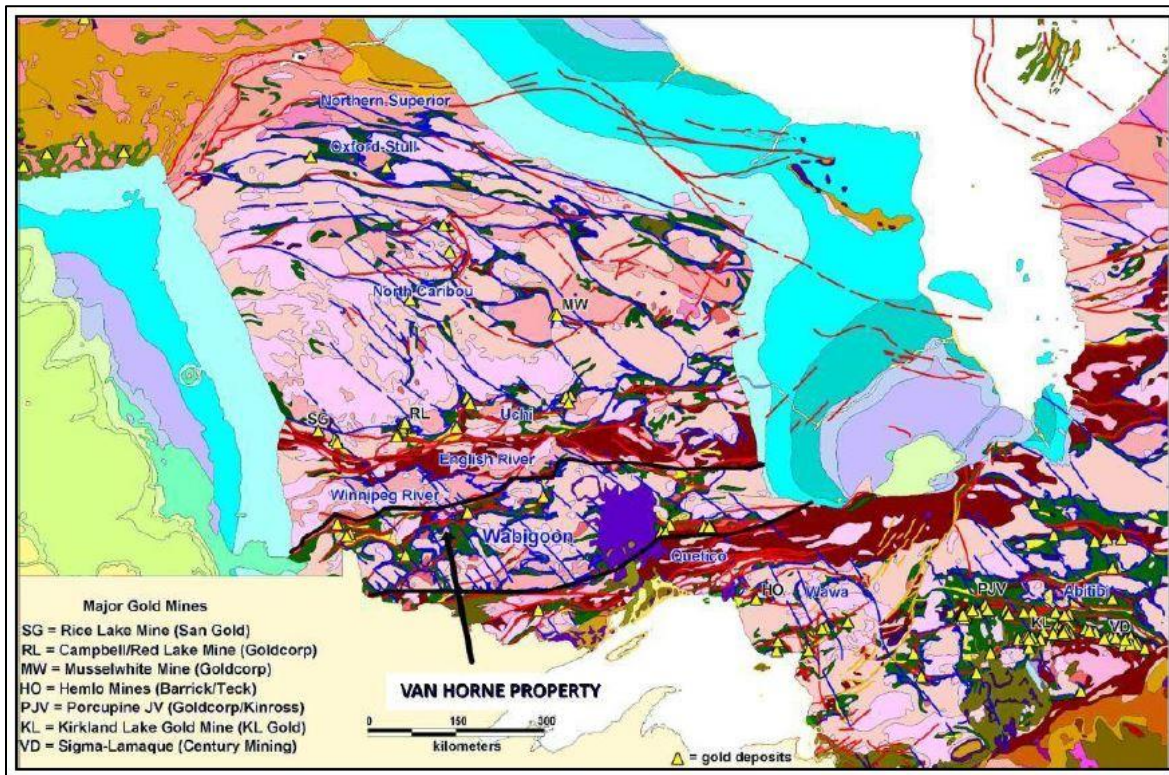


Figure 4: Regional Geology of the Superior Province

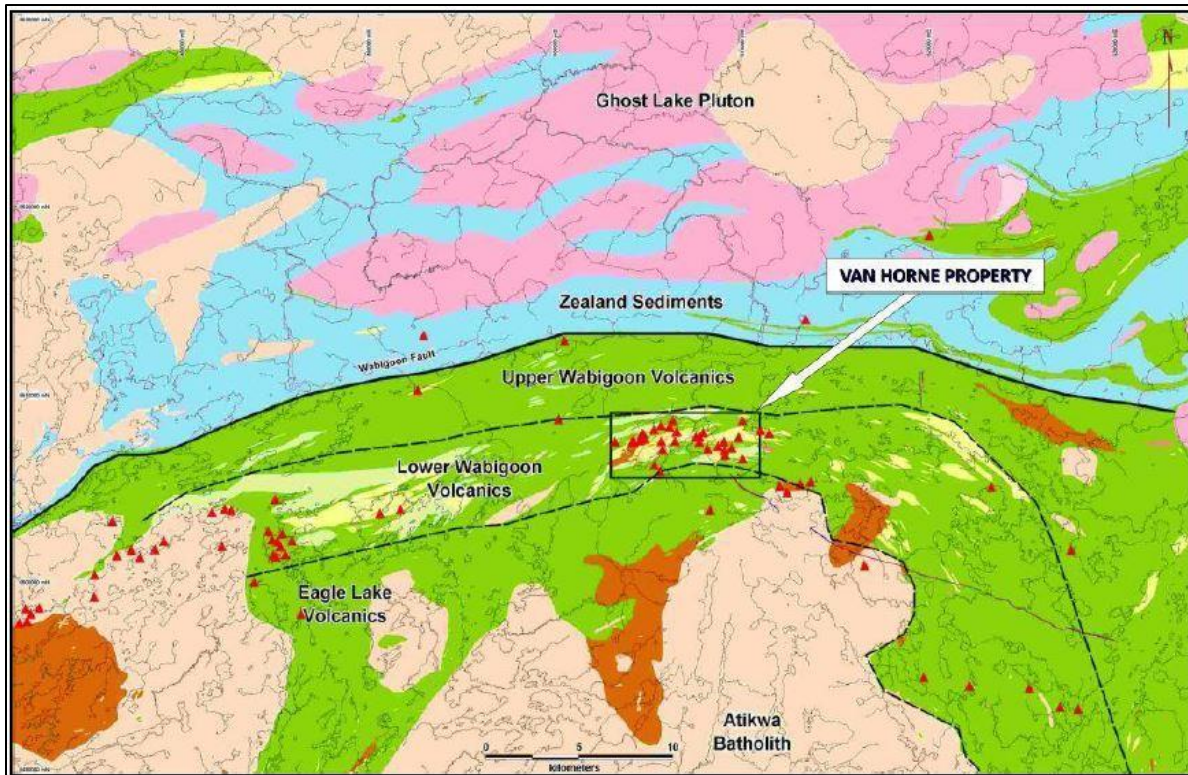


Figure 5: Eagle Lake - Wabigoon Lake belt geology (modified from Blackburn et al. 1991)

Eagle River volcanics are not described in Trowell et al (1980), but the Lower Wabigoon volcanics are reported as a mixed assemblage of calc-alkaline and tholeiitic mafic to felsic volcanic flows and synvolcanic intrusions. Trowell does reference Satterly's (1943) observations of several northeast trending folds in the lower Wabigoon volcanics. Upper Wabigoon volcanics are reported as a high iron tholeiite, and are considered by Trowell to be similar to the Boyer Lake volcanics adjacent to the Stormy Lake sediments.

The property is underlain primarily by Lower Wabigoon mixed assemblage volcanics and contains one of several clusters of intermediate to felsic volcanic sequences that may be related to local felsic volcanic vents. The intermediate to felsic units include coarse to fine grained volcanoclastics, flows, and a variety of mafic to felsic synvolcanic intrusions.

Upper Wabigoon volcanics are strongly sheared and altered 200-400 m south of the fault (Beakhouse, 2001) and variably sheared throughout Eagle Lake and Wabigoon Lake areas (Satterly, 1943). Both Satterly (1943) and Moorehouse (1941) report widespread deformation and alteration of the volcanic stratigraphy into a variety of chloritized and carbonatized schists, suggesting a much more pronounced deformation and alteration history than indicated on the overly simplistic available maps (Figure 6).

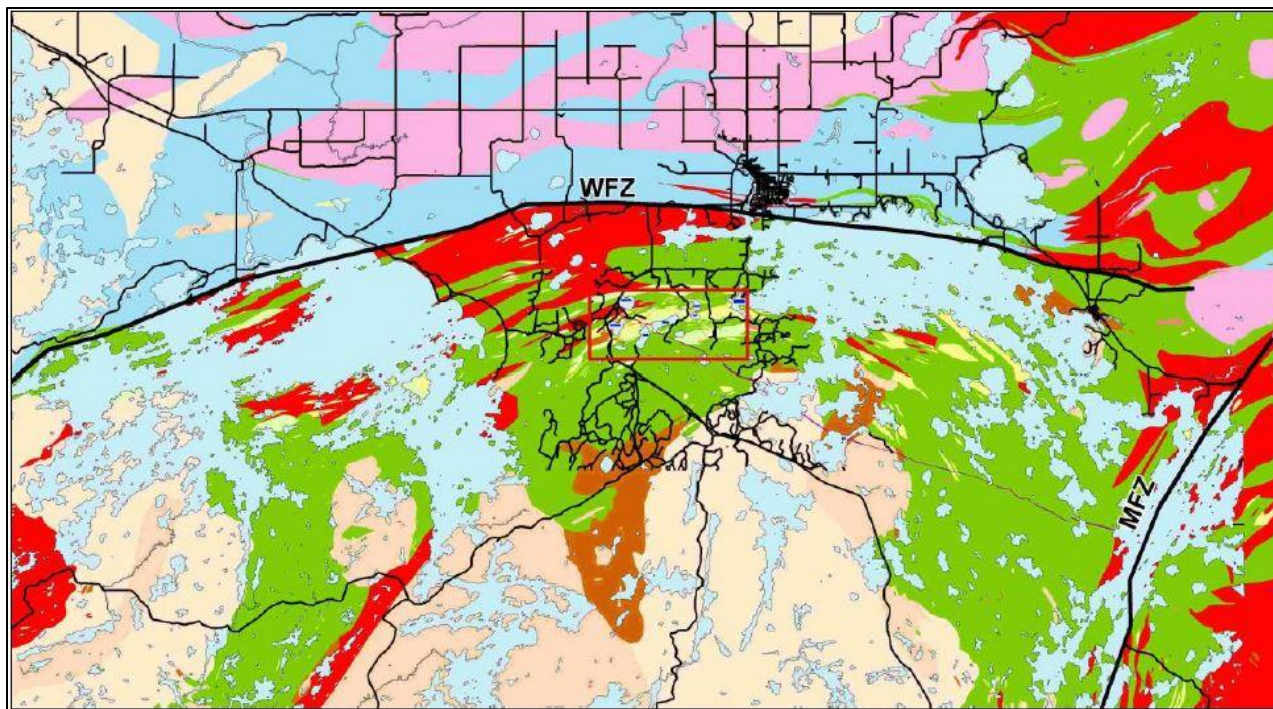


Figure 6: Belt Scale Alteration (red) from Satterly (1943) and Moorehouse (1941)

7.0 Property Geology and Mineralization

The information presented in this section is primarily sourced from I. Carr, D. Baker, 2018

7.1 Property Geology

The Lower Wabigoon rocks underlying the Van Horne property comprise a complex of massive to pillowed, calc-alkaline and tholeiitic, mafic volcanic flows that are typically carbonatized, chloritized and host to disseminated pyrite as well as local magnetite and quartz (e.g. Redeemer mine and Guy Lake area).

The mafic flows are typically intercalated with coarse to fine, mafic to intermediate, volcanoclastic flows and flow breccia. Magnetite is commonly a minor component of mafic breccia flows. Intermediate to felsic volcanoclastics occur throughout and include tuff breccia, lapilli tuff and ash tuff variants, which are generally heterolithic and range from poorly-sorted and massive to moderately-sorted and bedded. Joliffe (1988) reports that iron-rich tholeiitic basalts coincide with some of the magnetic anomalies in the Vanlas area east of Pritchard Lake.

Mafic volcanoclastic fragments are typically rounded and felsic fragments are generally angular. Many volcanoclastic units with intermediate to felsic fragments have a mafic matrix.

Felsic volcanic flows occur along an east-west trend from north of Flambeau Lake to Larson Bay, defining either a depositional horizon or possibly a fold axis (Figure 7). The flows are typically sericitized and carbonatized, becoming chloritized in the Guy Lake-Twingrass Lakes area. Disseminated pyrite and magnetite are common in flows and tuff variants. A quartz-diorite intrusion immediately north of Flambeau Lake with disseminated pyrite and magnetite may be a shallow intrusive equivalent. The intrusion locally contains up to 15% magnetite and 25% pyrite and has a clotty chloritic phase.

Discontinuous interflow sedimentary rocks, primarily reworked tuff, occur throughout the property and exhibit laminated bedding and sorting as well as scour and fill features.

The Lower Wabigoon volcanic rocks are intruded by gabbroic to dioritic sills, particularly in the Flambeau Lake area, and are observed to be gradational into mafic tuff breccia indicating they are synvolcanic intrusions. The sills contain abundant magnetite and/or pyrite and are typically carbonatized and sericitized. Country rock volcanics are also intruded by suites of pre-Proterozoic mafic and felsic dykes, which crosscut all units except for the Proterozoic diabase dyke. Mafic dykes are fine- to medium-grained, gabbroic to dioritic, and contain massive, vesicular, amygdaloidal and porphyritic variants. The dykes are typically northeast and northwest trending around Flambeau Lake and east-west trending to the east of this lake. Scheinbein, R. and Parker, J.R., (1988a) suggest they are synvolcanic based on textural similarities to mafic flows. However, some dykes occupy the expected dilation sites in a dextral transpressive settings that post-date volcanism, suggesting there may be more than one mafic intrusive event.

Felsic dykes include both feldspar porphyry (“FP”) and quartz-feldspar porphyry (“QFP”) dykes. The dykes are generally <50 m wide and are typically either northwest or east-west trending. A significant number of the gold mineralized fault zones with quartz-ankerite vein arrays, also contain porphyry dykes.

Bruce (1925) reported deeply weathered, narrow lamprophyre dykes in the Bonanza and Redeemer mine areas. The rocks are dark purplish in colour and thin section analysis indicated that they are strongly altered. Satterly (1943) observed similar dykes and described the original hornblende phenocrysts as partially replaced by biotite and the groundmass as an aggregate of biotite, hornblende, carbonate, pyrite and accessory sphene.

Joliffe (1984) reports predominantly east-west trending lamprophyre dykes within the host structures to the Ideal, Bonanza-Lost, Redeemer and SV 372 mine trends, and also states that it is possible that many of the intermediate volcanic rocks are altered mafic rocks, consistent with earlier work by Satterly (1943). Mapping also identified two younger units of porphyritic granite and granodiorite, located 600 m southeast and 1500 m southwest, respectively, of the Redeemer mine. The latter crosscuts all lithologies but is interpreted to be contemporaneous with at least some of the QFP/FP dykes. Moderate ankerite alteration is reported from most of the felsic volcanic rocks over a 6 x 2.5 km area near the Bonanza-Redeemer mines.

7.1.1 Lithologies

The 2008 reconnaissance mapping was generally in agreement with historical mapping from the 1980’s (Scheinbein, R. and Parker, J.R., 1988a; Scheinbein, R. and Parker, J.R., 1988b), with the main rock types including massive and pillowed mafic volcanic flows, felsic volcanic flows, mafic, intermediate and felsic tuff breccias, lapilli and ash tuff, synvolcanic gabbro dykes, synvolcanic quartz-diorite dykes and sills, quartz-feldspar porphyry and quartz porphyry dykes.

Massive mafic volcanic flows vary from medium green to medium grey-green, with lighter colours reflecting an increase in hydrothermal alteration. Flow top breccias are also observed locally (Lengyel, P., 2008).

Pillowed flows occur mainly in the east half of the property, extending east from the Bonanza/Redeemer shaft area into Wabigoon Lake. The pillowed flows are often variolitic (Lengyel, 2008) and appear to coincide with a magnetic low region that extends east through the south half of Wabigoon Lake.

Mafic, intermediate and felsic volcanoclastics are highly variable in composition and grain size and range from clast- to matrix-supported (Lengyel, P., 2008). Clast sizes vary from 25 cm down to <1 cm but are typically 3-5 cm in diameter. Clast composition varies from intermediate (medium grey) to felsic (buff to cream coloured); however, there are also what appear to be mafic clasts in the Pritchard Lake/Flambeau Lake area that are commonly

recessively weathered and composed of chlorite, magnetite and ankerite, commonly in a bimodal mix with intermediate to felsic clasts.

Several volcanoclastic units contain what appear to be sedimentary clasts that are pebble-sized, rounded and matrix-supported. These may be similar to Timiskaming-type conglomerates.

7.1.2 Alteration

The strongest and most persistent alteration occurs in corridors along an east-west central altered zone ~8 km long by ~250-500 m wide that passes through the Lost, Bonanza, Good Luck, Drake, Little Jumbo mines, as well as the Flambeau deposit area. Alteration is defined by varying degrees of chlorite-white mica- ankerite-calcite fracture fill and occurs irrespective of rock type. Additional east-west trending zones of chlorite \pm ankerite-calcite alteration flank this main trend to the north and south. Additional chlorite-calcite alteration occurs in the northwest end of the property and is spatially associated with the Vanlas deposit.

Vein infill and pervasive silicification occurs along the central altered zone and locally throughout the property. Pervasive silicification is less well-defined due to the variability in primarily lithology and irregular distribution but is generally widespread as indicated by the occurrence of quartz veins throughout the property. Follow up mapping by the OGS in the 1980's (Scheinbein, R. and Parker, J.R., 1988b) identified 170 separate quartz vein occurrences, the majority of which have not been adequately explored. The large footprint of quartz veins is consistent with widespread hydrothermal alteration. Whole rock and geochemical analysis from the 2008 program showed elevated loss on ignition (LOI), and major elements (including SiO₂) that further support the observed and interpreted widespread alteration (Lengyel, 2008).

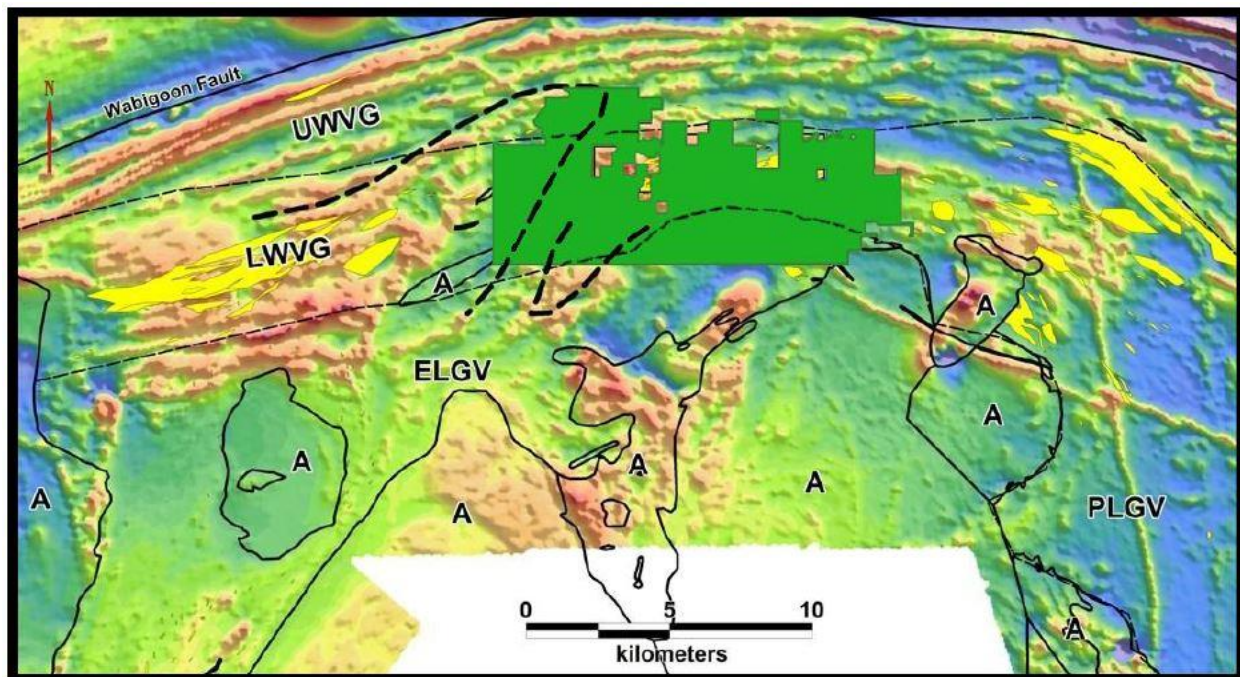


Figure 7: Total Field Magnetics (Lengyel, P., 2008). Mapped felsic volcanic units in yellow, Atikwa intrusions marked by "A", interpreted antiform/synform in dark dashed line.

7.2 Mineralization

Van Horne hosts a cluster of documented gold occurrences that follow a 12 x 3 km east-west trend between Eagle and Wabigoon lakes (Figure 8). Gold mineralization within and close to the property occurs in quartz-ankerite \pm tourmaline \pm chlorite \pm magnetite \pm sulphide (pyrite, chalcopyrite, galena, sphalerite, molybdenite) vein arrays within brittle-ductile deformation corridors (Joliffe, T.S., 1984). Visible gold is reported from several localities, with gold mineralization extending beyond the property along strike to the west in Eagle Lake and to the southeast through the Contact Bay area.

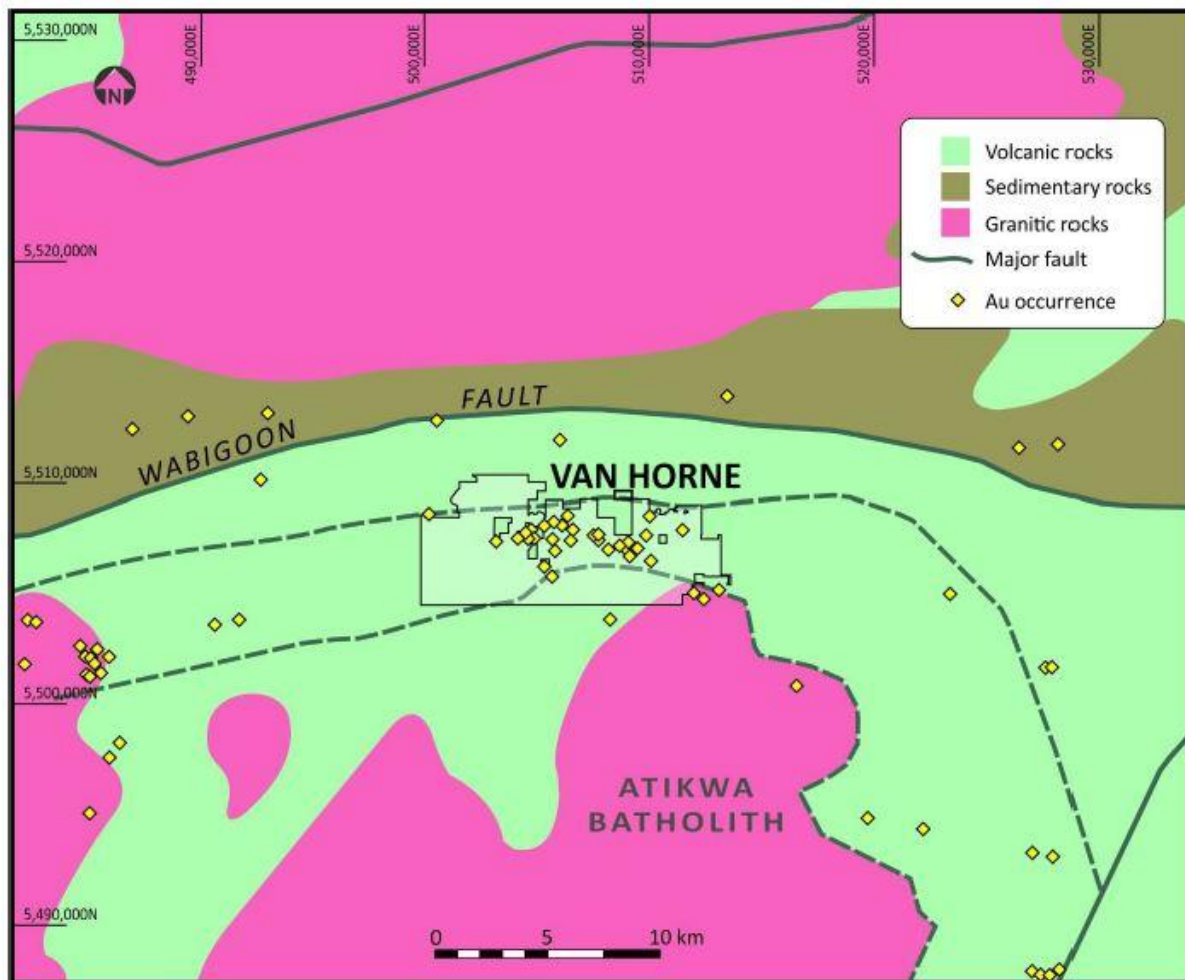


Figure 8: Gold occurrences in the Van Horne Area (Carr, I., Baker, D., 2018)

The deformation corridors are east-north east trending; the general orientation has been interpreted to reflect the transposition of the main penetrative fabric parallel to the margin of the ovoid shaped Atikwa batholith to the south (Joliffe, T.S., 1988), and failure along the major contact at the poorly defined base of the lower Wabigoon volcanics. The host faults are all reported to be north dipping with no documented plunge controls.

Fault zones typically host syn- to late-tectonic felsic porphyry dykes and mafic lamprophyre dykes. The intrusives may reflect a continuum from typical calc-alkaline (sanukitoid) intrusions, such as feldspar porphyry, to alkalic compositions like lamprophyre. Syntectonic sanukitoid to alkalic intrusions are a key geological component of productive gold districts at Timmins, Kirkland Lake, Larder Lake, and Val D'Or (Beakhouse, 2007). One of the diagnostic indicators of these late intrusions is the presence of magnetite and sulphides. Both minerals are widespread throughout the veins and lithologies at Van Horne.

8.0 Exploration Program 2020

In 2020 KG Exploration (Canada) Inc. carried out an exploration program that consisted of three distinct phases; winter diamond drilling, geological mapping and sampling, and summer diamond drilling. The objective of this program was to follow-up on targets identified in 2019 and complete additional work in areas that yielded anomalous gold values in the 2019 and other historic programs. Field work was completed by Clark Exploration on behalf of KG Exploration (Canada) Inc.

All exploration activities performed during the 2020 field program were completed under Permit Number: PR-19-000337.

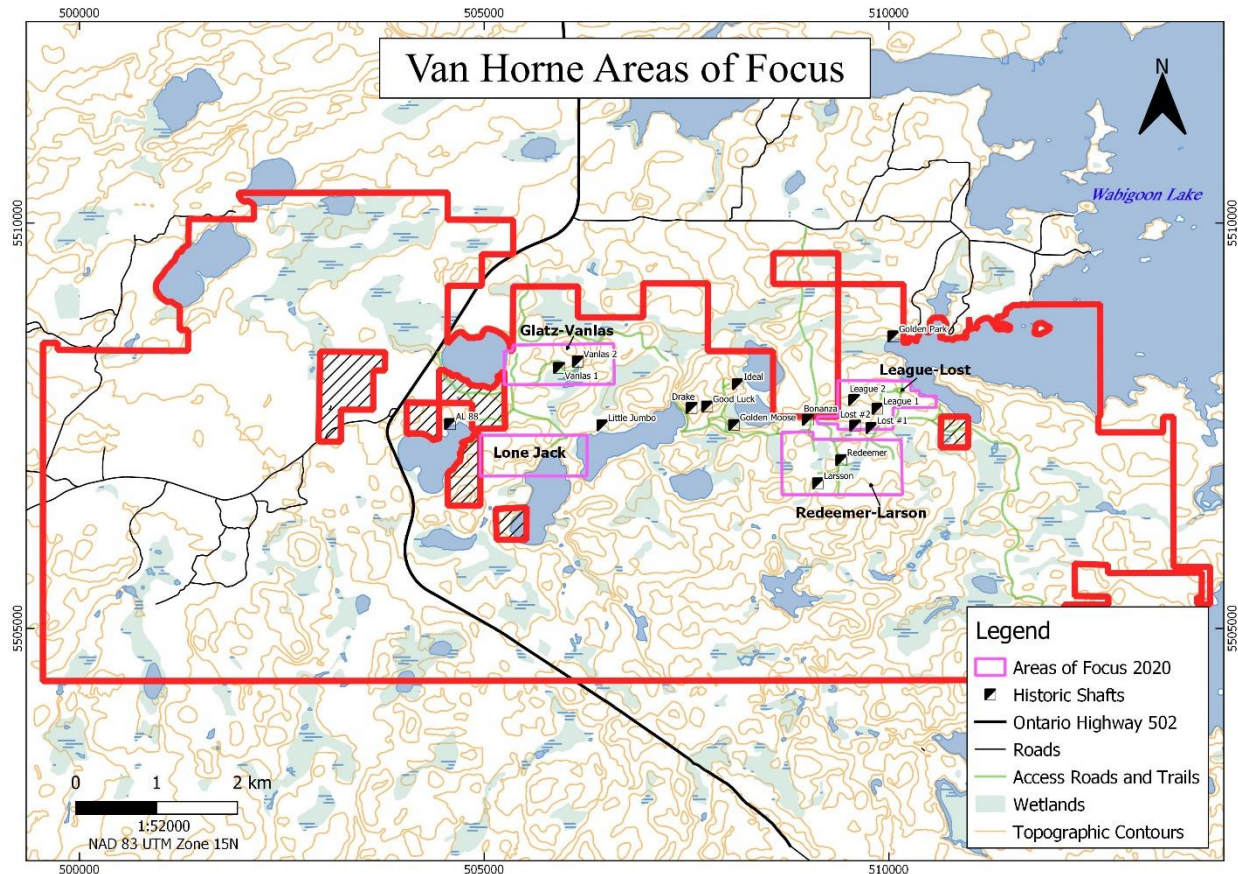


Figure 9: 2020 Exploration Program, Areas of Focus

8.1 Geological Outcrop Mapping

During the 2020 summer mapping and sampling phase, detailed lithological and structural mapping was carried out on three primary target areas throughout the property (Lone Jack, League-Lost and Redeemer-Larson) (Figure 9). Mapping was completed by a field team of four geologists working in pairs. This mapping took place from May 13th to August 2nd. The aim of this phase was to map in detail each target area, focusing on mineralization, alteration and potential structural corridors. It is through this initial phase that areas were highlighted for drilling in the following phase of the program.

8.1.1 Mapping Procedures

Outcrops were recorded digitally using a Samsung Galaxy Tab Active2 Tablet which ran the Avenza Mapping software and utilized an internal geographic positioning system which was then referenced against a hand-held Garmin GPS to provide quality control on location accuracy. Outcrops were digitized by carrying the tablet around the perimeter of the exposure and recording the details in a pre-defined data table which included, lithology, alteration, structure, and mineralization codes to standardize field descriptions. Structural information was recorded utilizing a field compass and was entered digitally into the data table. Field teams were also able to add additional comments if needed.

8.1.2 Rock Sampling and Geochemical Assay

To validate historical and contemporary data, and to identify new targets with potential for further exploration, 276 rock samples were collected throughout the property. At least a “two fist size” portion of rock was collected from each sample location, then placed in a polyethylene bag with a unique sample tag and tied closed. Most samples of vein material typically included a limited amount of vein wall material. Grab sample locations were taken using a Garmin GPS. A metal tag, inscribed with the sample number was tied to a representative piece of rock and left in the location of the sample, while a piece of fluorescent tape was hung above the sample location. In some instances, sample collection was aided by a rock saw.

For shipping to the analytical lab, samples were packaged into rice bags (6-7 per bag). Standards and blanks were inserted into the grab sample stream at approximately 1 in every 20 samples and account for 7% of the submitted samples. Each rice bag was sealed with a ziptie and transported to ALS Laboratories, Geochemistry – Thunder Bay via Gardewine Transport or Clark Exploration personnel.

Rock (Grab) Sample descriptions are present in Appendix D and certificates of analysis are present in Appendix E.

8.2 Diamond Drilling

Four NQ diamond drill holes, totalling 2,829 m, were drilled from February 10th to April 3rd 2020 as part of the winter diamond drilling phase. Drilling was conducted by Major Drilling Group International Inc. (“Major”), utilizing a skid mounted diamond drill and supported by a Caterpillar D6 bulldozer and serviced by light trucks.

Seventeen NQ diamond drill holes, totalling 4,189 m, were drilled from August 1st to October 5th 2020 as part of the summer diamond drilling phase. Drilling was conducted by Major Drilling Group International Inc., utilizing a skid mounted diamond drill and supported by a 620 D Tigercat skidder and a Caterpillar D6N bulldozer.

Core was logged for geological and geotechnical information and sampled at a secured indoor garage located in Dryden, Ontario, a 25-minute drive from the property.

8.2.1 Earthworks

During the winter drill phase snow removal along access trails and four sumps were created on the west side of the property by Hutchinson Contracting Limited of Dryden, Ontario using a 320 Caterpillar excavator.

As part of the summer drill phase, timber removal was performed on all thirteen drill pads and access trails on the east side of the property. The work was performed by contractor Dale Fenwick of Dryden, Ontario using a Caterpillar 541 feller buncher and Caterpillar 525 skidder. Further drill pad building for the thirteen sites was done by Major Drilling. On the west side of the property, four drill pads with access trails were created by Major Drilling. All pad building done during the winter drill program was done using a 620 D Tigercat skidder and a Caterpillar D6N bulldozer.

Following the completion of drilling at the League-Lost target, remediation work was done on a pre-existing access road that had been disturbed by the drilling activities. This remediation work included backfilling and distributing and compacting material along the road to return it to its previous state. Material was brought in by Wildwood Contracting of Dryden, Ontario and was distributed and compacted by Major Drilling. Other remediation work done at the end of the program included: backfilling sumps, removing garbage and evening out access routes and drill pads.

8.2.2 Collar and Downhole Surveys

Drill hole collars were sighted using a combination of hand-held GPS (for location) and Silva compass (for azimuth). Compasses were set to a declination -1° . The drill rig was positioned over the collar and aligned using a Reflex TN14 Gyrocompass. The Reflex TN14 gyrocompass is a north seeking tool that provides high accuracy ($\pm 0.3^{\circ}$) alignment.

During drilling, holes were surveyed 3m below casing using a Reflex Gyro Sprint IQ which is a north-seeking gyro tool operated in multishot mode. Surveys were taken every 30 m after the first test below casing. Upon completion of drilling, a survey was taken using the Reflex Gyro Sprint IQ in continuous mode, with stations every 3 or 5 meters.

Following drilling, holes were capped with an aluminium plug stamped with the hole ID and marked with a flagged picket. After completion of the program, final drill hole locations were recorded using the Waypoint Averaging mode on a handheld Garmin GPS. Final collar locations are presented in Table 4 and 5.

8.2.3 Core Orientation

Drill core was oriented for structural measurements in all the 2020 drill holes from the base of overburden until the end of hole (EOH). The bottom-of-hole orientation mark was placed by the drill crew using a Reflex ACTIII core orientation system. Following transport to the core shack, geotechnicians realigned the core and drew a blue orientation line if the bottom of hole mark could be accurately related to the rest of the drill run. Orientation lines were transposed onto adjacent runs if the start or end of the runs could accurately fit together. Alpha and beta angles of structural features were recorded where they could be determined.

8.2.4 Geological Core Logging

Geological ‘quick-logs’ were produced for real-time lithological information by the on-site project geologist as core was delivered to the core shack at the beginning and end of each day. The purposes of these logs were to rapidly identify lithologic units and major alteration and veining and their approximate (± 15 cm) position in the drill hole. The real-time data also gave supervising geologists a better idea on whether to continue or shutdown holes.

Geological information was entered directly into the MX Deposit core logging software. Features were recorded based on their start and end depths to centimetre accuracy within the drill hole, measured along the core axis.

Lithologic units were identified and assigned a predetermined lithology code designed to standardize the lithologies on the property between surface mapping and drill core logging. Additional lithologic information entered in the log included texture, grain size, colour and any other descriptive modifiers or comments.

Alteration type and style were recorded based on visual observations of mineralogy, distribution and intensity. Structures such as faults, foliations, contacts and veins were also recorded, and their alpha and beta angles were measured where possible.

The presence of gold, sulphides and any other notable mineralization were recorded in from-to intervals as well, in addition to their estimated percent, abundance and style.

8.2.5 Geotechnical Core Logging

Geotechnical data collected from the core included rock quality designation (RQD), total core recovery (TCR), and magnetic susceptibility. With each parameter recorded in the MX Deposit software.

Total Core Recovery (TCR) is the amount of core recovered, measured from core block to core block. Fractured core was re-assembled, and rubble was pushed into an approximate core volume prior to measuring.

Rock Quality Designation (RQD) was also measured from core block to core block, comprising the sum of all naturally fractured core lengths >10 cm in length divided by the run length. Natural fractures include breaks that are inherent to the lithology (e.g. joints) but not mechanical breaks generated by drilling.

Magnetic susceptibility was measured using a KT-10 Kappameter, taking a reading every metre.

8.2.6 Geochemical Sampling and Assay

Drill core samples ranged from 0.3m to 1.5m in length. Core samples were selected based on observations made by the logging geologists. Core samples were obtained by cutting the core parallel to the core axis with a Vancon saw fitted with a diamond blade along a cut line which was drawn on by the logging geologist. The core was then placed into labelled plastic sample bags with unique sample tags and ID's that were then stapled closed. For shipping to the analytical lab, samples were packaged into rice bags (6-7 per bag) for shipment. Standards and blanks were inserted into the grab sample stream and account for 9% of the submitted samples. Each rice bag was sealed with a zip tie and transported to ALS Laboratories, Geochemistry – Thunder Bay via Gardewine Transport or Clark Exploration personnel.

In addition to the regular analyses, geologists while logging would take note of unique lithologies observed throughout the hole and specify those samples to be sent for specific gravity via ALS using a pycnometer (OA-GRA08b).

If visible gold was encountered, special protocol was undertaken which included inserting a blank immediately after the sample containing visible gold and a high-grade certified reference material further down in the sample series.

9.0 2020 Exploration Program Results

9.1 Mapping and Rock Sampling

9.1.1 League-Lost Area Mapping

9.1.1.1 Field Mapping

Mapping done in the League-Lost area was completed at roughly a 1:250 scale over 45 field days (Figure 10). Two field teams consisting of two geologists, mapped 189 outcrops and collected 147 grab samples. Lithology in the area consists predominately of cyclic mafic to intermediate volcanics and mafic to intermediate volcanoclastics. The volcanoclastics are defined as a lightly deformed unit displaying “chlorite wisps” which look to be outlining potential weathered out clasts. The volcanics are finer grained and though they occasionally show increased deformation in the form of foliation, they are mostly massive with weaker foliation. Foliation throughout the target area, along with most major structures, are striking 90-105° and dipping 80-90°. Three primary trends were observed and are outlined below.

The Lost vein occurs near the southern edge of the target area along the Lost #1 and Lost #2 shafts. The average orientation of the vein is 280°/80°. This vein shows many signs of historic exploration with two shafts occurring 200m apart with extensive trenching in between. Smaller blast pits were also discovered, occurring along and proximal to the vein. The mineral assemblage of this vein is quartz-carbonate-ankerite+/-tourmaline-chlorite. Pyrite and chalcopyrite were noted in low abundances (1-2%) in samples taken from the vein with one sample noting 1% bornite. Vein width pinches and swells from 0.20-0.60m. Crews attempted to locate the Lost vein east of the Lost #1 shaft but were unsuccessful.

The Lost North vein occurs roughly 100m north of the Lost vein and is subparallel to the Lost vein with a similar assemblage and orientation. The vein width pinches and swells from width of 0.20-0.30 m. Four shallow-historic blast pits were seen along the strike of the vein. Crews were unable to locate the Lost North vein anywhere south-east of the logging road.

The League trend has an average orientation of 285°/85° and is exposed in three areas: east and west of the League 1 shaft, east of the League 2 shaft and in a blast pit to the far west of the target area. The vein itself pinches and swell from 0.20-0.50m wide with the contacts being strongly silicified and sericitized. The assemblage of the vein is quartz-carbonate-chlorite+/-tourmaline with 1-2% pyrite and occasional 0.5% arsenopyrite. Crews were unable to locate this vein to the east of the historic League #1 shaft.

9.1.1.2 Hand Exposure

One hand exposure was created near the western end of the target area. This area had evidence of previous work in the form of a 3x4m-4m deep blast pit and grab samples from 2018. The stripping extends roughly 10m to the west of the pit and displays two parallel East-West trending quartz-chlorite-ankerite-pyrite±sericite±tourmaline veins intruding a weakly altered and subtly deformed intermediate volcanoclastic. The northern vein ranges in width from 0.10 to 0.18m with 0.02m of deformed wallrock on both contacts. The southern vein is thinner ranging in width from 0.03 to 0.08m displaying similar, but less intensely deformed contacts. Between these two veins occurs three or four discontinuous blocky bull quartz blowouts with NW orientations. Grab samples were collected throughout the exposure some using the channel saw. One crew spent two days hand stripping, washing, sampling and mapping this area. A sketch was created which can be seen in Appendix F.

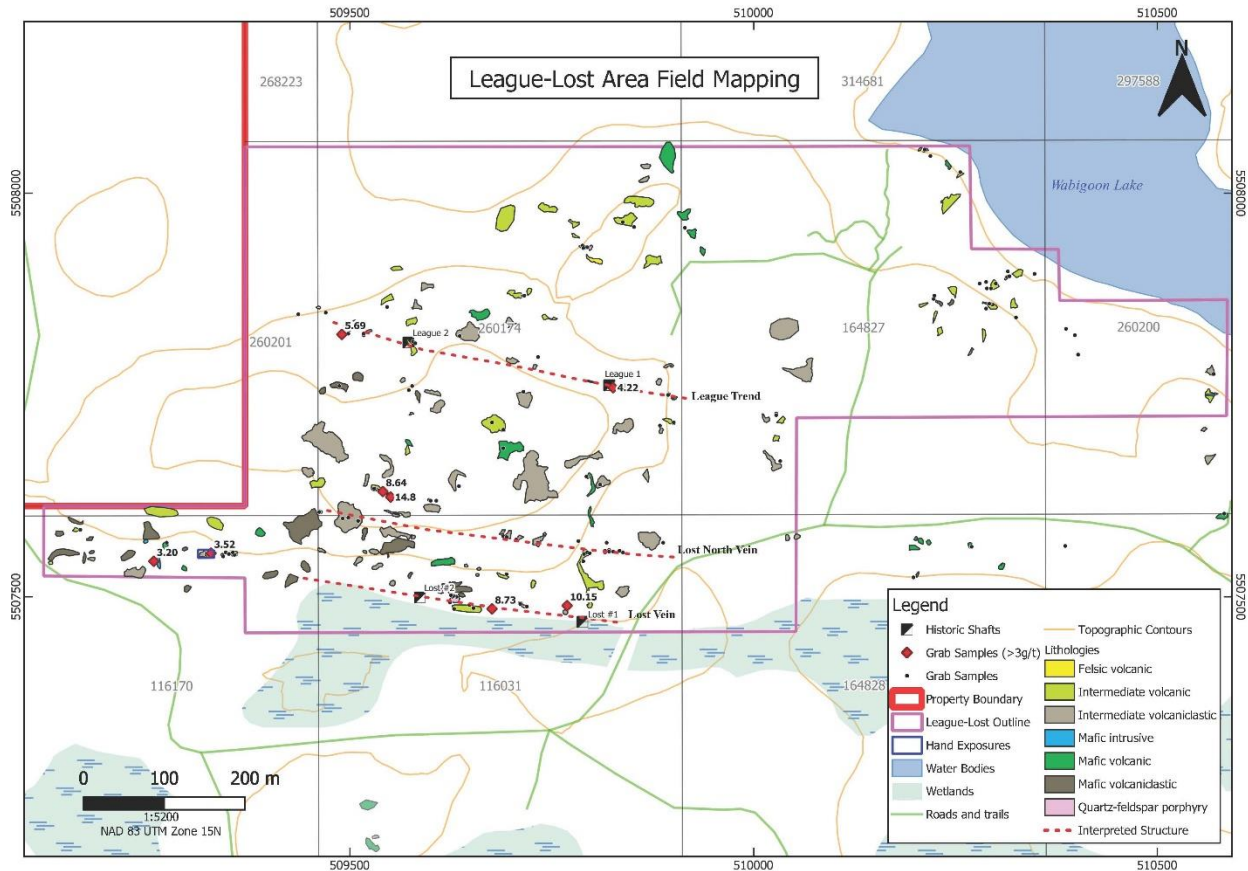


Figure 10: League-Lost Outcrop Mapping and Sampling During 2020 Field Program

9.1.2 Redeemer-Larson Area Mapping

9.1.2.1 Field Mapping

Mapping in the Redeemer-Larson area was performed using north-south transects and focused around the two historic shafts (Redeemer and Larson). One crew consisting of two geologists mapped 114 outcrops over 17 days. 59 grab samples were collected (Figure 11). Lithology in the area consists of cyclic mafic to intermediate volcanics and mafic to intermediate volcanoclastics. The volcanoclastics are defined as a unit containing varying amounts of clasts. The mafic volcanics are seen to be a plain buff green colour on the surface where the intermediates have a beige-ish surficial colour. Alteration outside of areas proximal to the historic shaft was subtle to very weak with very few outcrops displaying notable sulphide mineralization.

Multiple blast pits and trenches were located proximal to the historic Larson shaft. Weak shearing within the trench and quartz veinlets proximal to the trench were the focus of the samples. The shearing in these pits and trenches was strongly altered and hosted low percentages of pyrite mineralization. Crews were unable to locate the continuation of this shearing anywhere to the east or west of the pitting and trenching.

An outcrop 20m east of the historic Redeemer shaft exposed what is believed to be the Redeemer trend. This area was sampled in 2019 and 2018 and displays a 25-30cm quartz-chlorite+/-tourmaline-ankerite vein with an orientation of 275/85°. Occurring off this main vein was an extension vein which averaged a width of 8cm (015/35°).

Overall, the Redeemer trend was seen in three areas. The first, 30m east of the Redeemer. The second, 400m to the west of the Redeemer shaft which is made up of two outcrops spaced 25m apart and was sampled in 2018 and 2019. Between these two outcrops is a large blast pit (4x2m wide). The last occurrence appears at the far western extent of the target area, 700m west of the Redeemer shaft. All occurrences displayed a vein with similar assemblage, alteration signature and width to the vein seen 30m to the east of the Redeemer shaft. The first two occurrences mentioned were targeted as areas that would receive further work in the form of hand stripping and washing. Crews were unable to find any evidence of the vein east of the first occurrence.

9.1.2.2 Hand Exposures

Two hand exposures were created along the Redeemer Trend. The first, was located 30m east of the Redeemer shaft. This stripping exposed the vein seen on the original outcrop in three different areas, adding up to a total of roughly 20m of strike length exposed. These exposures show the vein (quartz-ankerite-chlorite-pyrite±tourmaline) pinching and swelling from 5cm to 30cm and occurring with strong to intense deformation along its margins. Additional extensional veins were uncovered and sampled. 14 samples were taken including 4 which were taken with the aid of a rock saw. Pyrite mineralization was observed in both the vein (as high as 5%) and the altered wall rock (2%). A sketch of this stripping was produced and can be seen in Appendix F.

The second exposure was created around two outcrops occurring 400m to the west of the Redeemer shaft. This second occurrence is made up of two outcrops spaced 25m apart and was sampled in 2018 and 2019. Between these two outcrops is a large blast pit (4x2m wide). One field crew spent 3 days hand stripping, washing, sampling and mapping this area. The exposure shows a dominant east-west vein ($277^{\circ}/82^{\circ}$) quartz-chlorite-ankerite±arsenopyrite±pyrite±chalcopyrite vein with a varying width (averaging 0.30m). Mineralization is constant throughout the vein in varying abundances, the highest abundance occurring as 4% pyrite, 1% arsenopyrite and 1% chalcopyrite. Extensional veins were seen at the far eastern extent of the exposure, these veins were 0.01-0.05m wide with 1% pyrite mineralization. A total of 7 samples were collected. A sketch of this stripping was produced and can be seen in Appendix F.

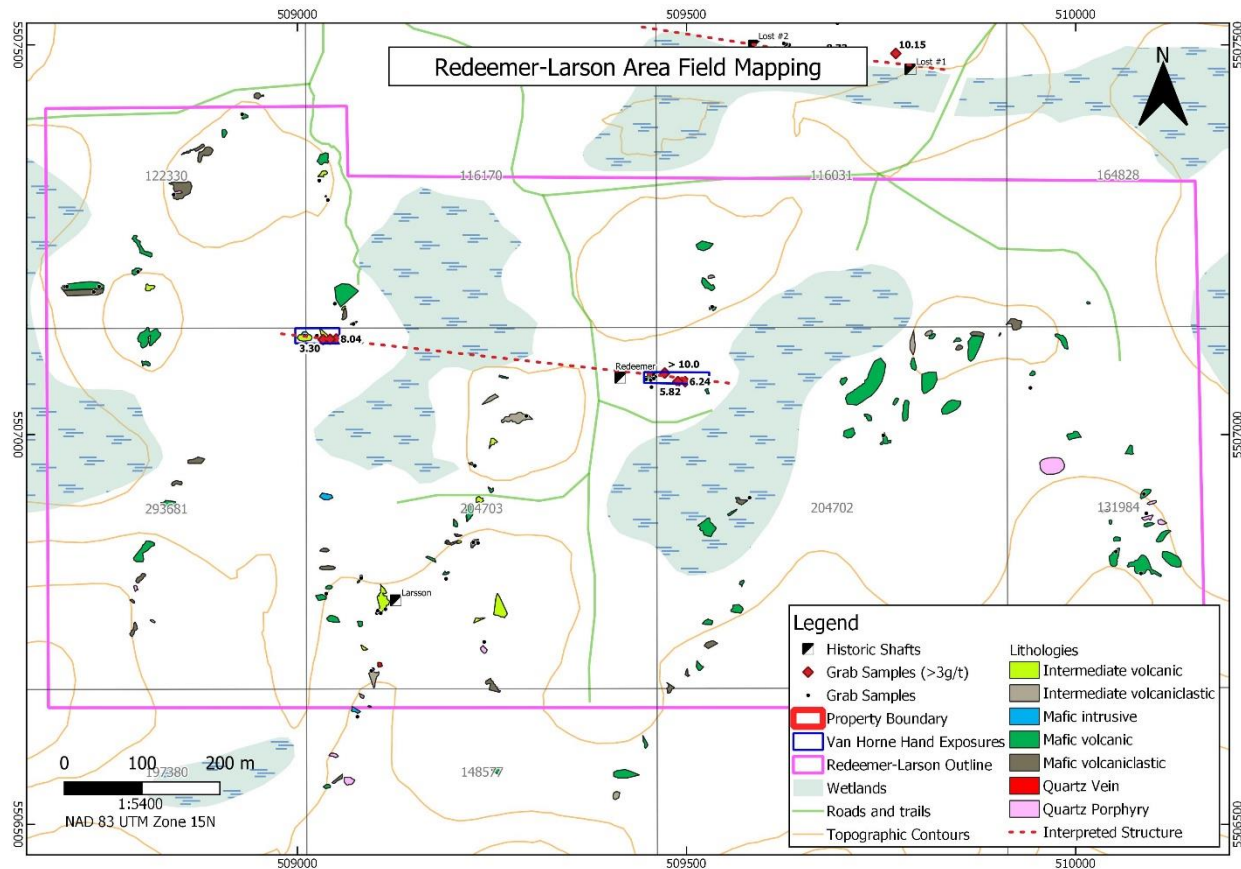


Figure 11: Redeemer-Larson Outcrop Mapping and Sampling During 2020 Field Program

9.1.3 Lone Jack Area Mapping

Mapping in the Lone Jack area was completed at a 1:250 scale (Figure 12). Over an 18-day period, 74 outcrops were mapped with a total of 46 grab samples collected. The area displays a repeating sequence of volcanic and volcanoclastic units ranging in composition from mafic to felsic. Quartz-feldspar porphyry (QFP) intrusions occur sporadically throughout the target area. Quartz veins were seen throughout the area with an average orientation of 330°/75°. The widths of these veins range from 0.02-0.06m wide with 1-2% pyrite. These veins were often seen occurring in 5-10m lateral spaced sets. More mapping is required in this area focusing on delineating the QFP’s and their relationship to the quartz vein sets in order to develop drill targets for future programs.

9.1.4 Minor Mapping Targets

Two days were spent mapping and sampling around the Golden Park shaft north of the League-Lost target area. Three samples were taken around the historic shaft. Up to 5% chalcopyrite observed in a 0.10 m chlorite-quartz vein. Orientation of the vein appeared to be north-south, though could not be verified. Further work will need to be performed in the area to determine orientation.

One day was spent prospecting the south-west side of the property on roads branching off Highway 502, 3 samples were taken including one following up on a 2018 sample that was anomalous.

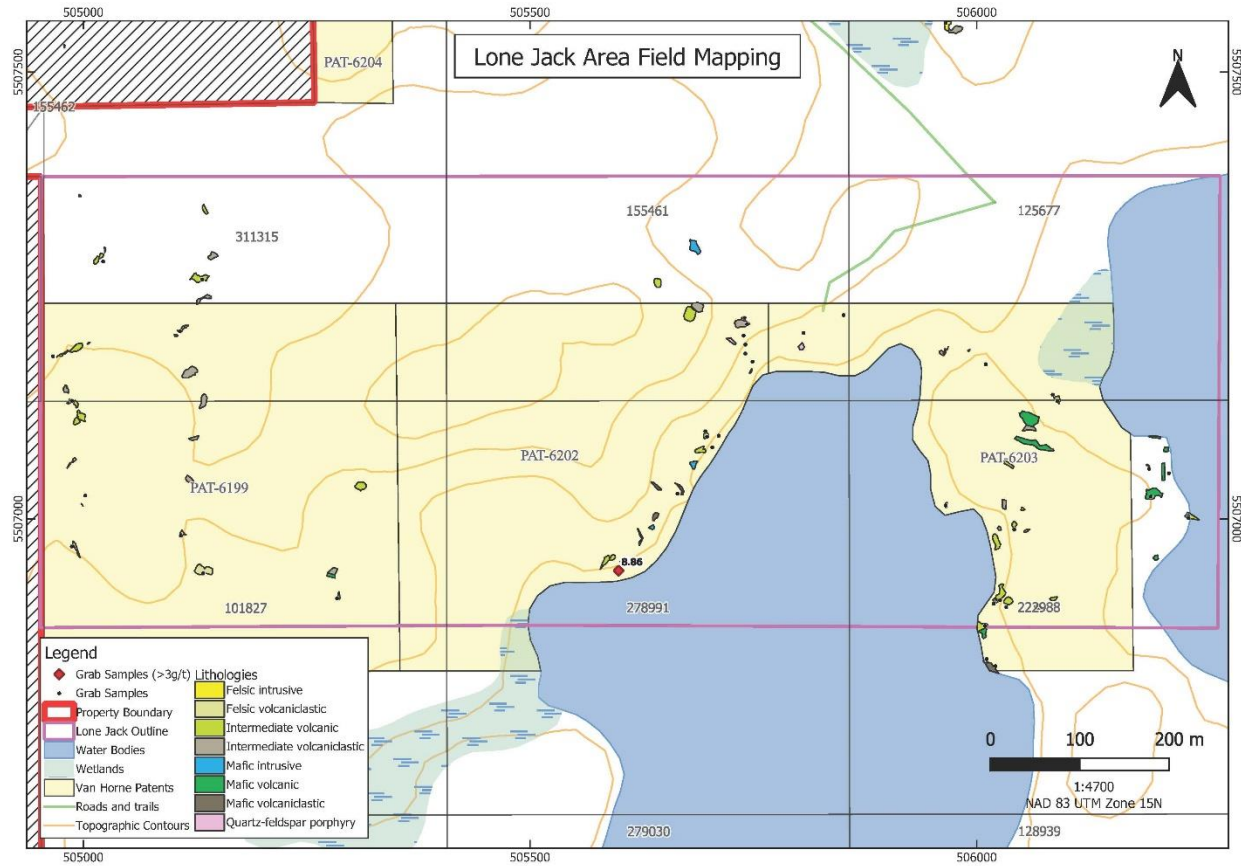


Figure 12: Lone Jack Outcrop Mapping and Sampling During 2020 Field Program

9.2 Rock Sampling Results

276 grab samples were collected as part of the outcrop mapping phase of the program. Significant gold values were returned with grades up to 14.8 g/t. These samples were collected from historical occurrences and from new prospects. Grab samples taken from quartz veins displaying strong ankerite alteration, tourmaline, pyrite, occasional arsenopyrite and deformation along margins produced the highest grades. Although no direct correlation has been made, samples displaying upwards of 3% sulphide mineralization often returned anomalous gold values.

Table 2: Significant Grab Sample Results

Focus Area	Sample ID	UTM Easting	UTM Northing	Date	Type	Au (ppm)	Certificate
League-Lost	A0051230	509257	5507544	6/20/2020	Outcrop	3.14	TB20134184
League-Lost	A0051336	509328	5507554	7/26/2020	Outcrop	3.52	TB20169287
League-Lost	A0051190	509826	5507759	6/15/2020	Outcrop	3.84	TB20134184
Redeemer	A0051261	509489	5507068	5/29/2020	Outcrop	5.82	TB20140884
League-Lost	A0051186	509490	5507825	6/14/2020	Outcrop	5.69	TB20125876
Redeemer	A0051258	509493	5507068	5/29/2020	Outcrop	6.24	TB20140884
Redeemer	A0051250	509038	5507122	6/1/2020	Outcrop	8.04	TB20140884
Lone Jack	A0051122	505599	5506942	5/21/2020	Subcrop	8.86	TB20109488
League-Lost	A0051177	509544	5507628	6/14/2020	Outcrop	8.64	TB20125876
League-Lost	A0051152	509676	5507485	6/6/2020	Outcrop	8.73	TB20122079

League-Lost	A0051149	509769	5507489	6/6/2020	Outcrop	10.15	TB20122079
Redeemer	A0051262	509472	5507079	5/29/2020	Outcrop	10.35	TB20140884
Redeemer	A0051252	509033	5507122	6/1/2020	Outcrop	11.35	TB20140884
League-Lost	A0051176	509547	5507627	6/14/2020	Subcrop	14.8	TB20125876

9.3 Diamond Drilling

A total of 7,018m of diamond drilling was done across two phases of the 2020 exploration program. 2,228 (including QAQC) drill core samples were collected during the 2020 drill program. These samples were collected in areas of mineralization, increased alteration or around structural features of interest. The best results were often obtained in deformation zones hosting quartz veins with increased alteration.

9.3.1 Glatz-Area Drilling

Four holes, totalling 2,829 m were drilled in the Glatz West target area as part of the winter drilling phase of the 2020 exploration program (Figure 13). These holes were designed to target the higher-grade intercepts that were obtained in the same area during the 2019 drill program as well as to explore for potential mineralization along strike. The 2020 holes were designed to intercept these areas at a deeper vertical depth in hopes of expanding the mineralized zone at depth and along strike. These holes would also explore the potential for parallel structures to the north of the 2019 drilling.

Geological drill logs can be found in Appendix G and drill hole cross sections can be found in Appendix H.

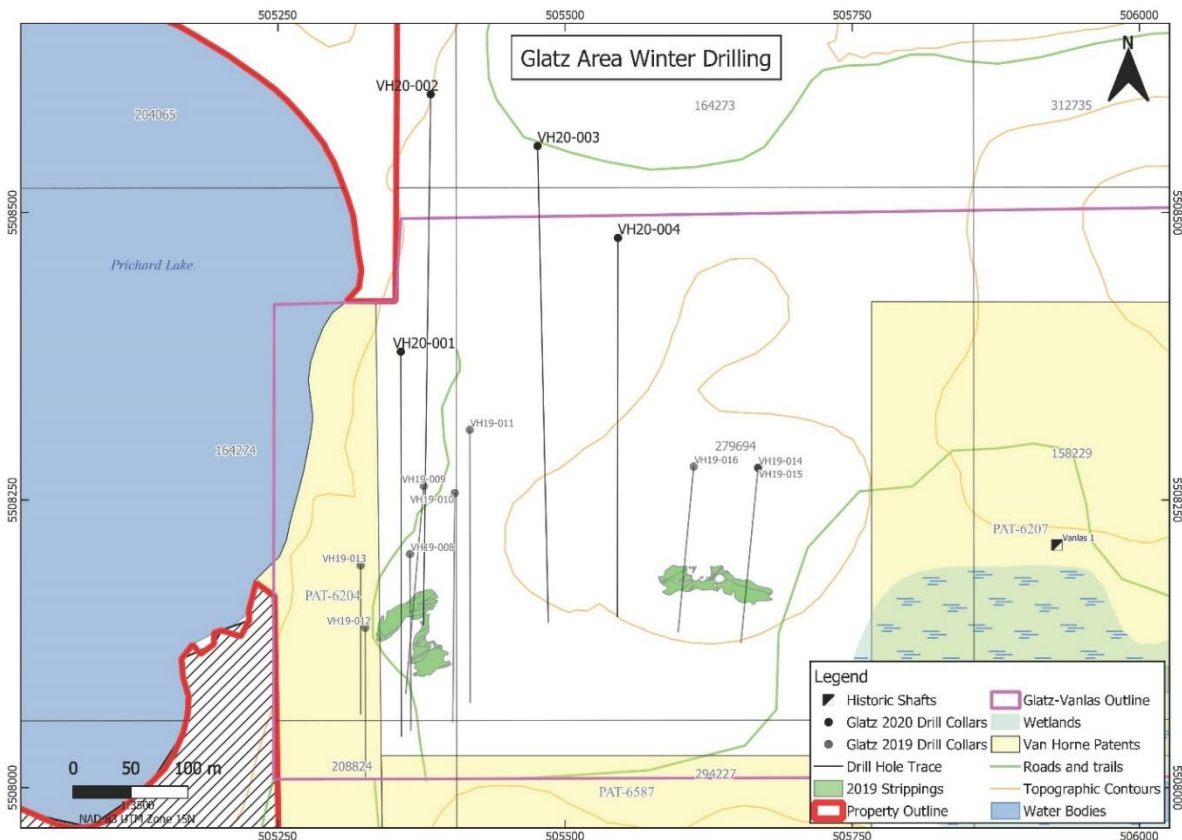


Figure 13: Glatz Area Drilling Map including Hole Outlines

VH20-001

VH20-001 was planned to target the down dip extension of the mineralization observed in two holes from the 2019 program (VH19-008, VH19-009) ~250m below surface. In addition, this hole targeted a parallel shear vein system at 100m below surface which was encountered during both the 2018 and 2019 mapping programs and returned anomalous gold values. This hole was drilled with an orientation of 179.9/-51.5°.

Lithologies intersected in this hole were consistent with the lithologies seen in the 2019, a volcanic sequence which consisted of intermediate volcanoclastic and volcanic units. These lithologies were crosscut by later quartz-feldspar porphyry intrusions. Seven of these intrusions were seen in this hole. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units. The most notable structure hit in the hole was an irregular-deformed quartz-carbonate-tourmaline-pyrite vein zone which was ~1.7 meters wide (300.03-301.72m) and consisted of 60% vein material, 40% altered wallrock and displayed 2% pyrite. This is believed to be the downdip extension of the structure intercepted in the 2019 drilling. Structures of similar assemblage and habit occurred elsewhere in the hole but were shorter intercepts. Visible gold was observed in two instances in this hole (334.67, 355.10m), both occurring in low quantities along or proximal to margins of quartz-carbonate-pyrite veins with widths of 0.2m and 0.3m respectively. In both instances, the gold grains were occurring in contact with pyrite grains. This is consistent with the visible gold seen during the 2019 drilling. Deformation and alteration are consistent with some localized areas, mostly around veins and intrusions, displaying stronger silica alteration as well as stronger deformation.

VH20-002

This hole was designed to intersect the main mineralization observed during the 2019 program, ~450m below VH19-009 and ~580m below the surface. In addition, this hole tests the northern portion of the Glatz West area and was designed to explore for potential parallel structures currently unobservable on surface due to low lying ground cover of the area and the subsequent lack of outcrop. This hole was drilled with an orientation of 180.8/-61.1°.

Lithologies intersected in this hole were consistent with the lithologies seen in the 2019 drilling, a volcanic sequence which consisted predominately of intermediate to mafic volcanoclastic and volcanic units. These lithologies were crosscut by later quartz-feldspar porphyry intrusions. Six of these intrusions were seen in this hole. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units. The hole displays many quartz veins with widths from 0.05-0.20 m most of which have the similar orientations. Visible gold was seen in this hole at 553.28m within a 0.01 m quartz-carbonate-chlorite-pyrite vein. Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins and the QFP intrusions, displaying stronger chlorite, silica and sericite alteration as well as stronger deformation.

VH20-003

This hole was designed as a 100m eastward step out from VH20-002 and a 50m step out from VH19-010-VH19-011. It was designed to target the vertical and lateral continuity at depth of the mineralization observed in 2019. In addition, this hole targets a parallel shear vein system at ~100m below surface which was encountered during 2018 and 2019 surface mapping programs and returned anomalous values in in both programs. This hole was drilled with an orientation of 178.7/-59.5°.

Lithologies intersected in this hole were consistent with the lithologies seen in the 2019 drilling, a volcanic sequence which consisted predominately of intermediate to mafic volcanoclastic and volcanic units. These lithologies were crosscut by later quartz-feldspar porphyry intrusions. Six of these intrusions were seen in this hole. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units. The first

notable intercept occurs from 77.81 to 81.07m. This interval displays a mix of strongly altered and deformed quartz-feldspar porphyry, altered volcanics and irregular quartz-sericite-pyrite-tourmaline veins. 1% pyrite was observed in this interval. The second notable interval occurs from 195 to 201.41m. This interval was a veined zone made up of two larger quartz veins 1.04m and 0.57m in widths, occurring with a number of smaller veins (0.10-0.22m width). These veins all have a similar mineral assemblage (quartz-carbonate-tourmaline) with 0.5 to 1% pyrite occurring along margins. The wall rock within this interval displays increased silica and sericite alteration. The next notable intercept occurs in the form of an irregular veined zone from 624 to 633 m. These veins range in widths from 0.05 to 0.50 m all with a similar quartz-carbonate-tourmaline-chlorite assemblage. Pyrite content occurs as blebs, fracture-filling and disseminated and averages 2% in and proximal to these veins. Visible gold was observed three times in this hole (114.4, 275.1, 689.87m). In every occurrence, the gold occurred as a few grains within small (0.01 to 0.06m) quartz veins. All of these quartz veins had a similar assemblage (quartz-carbonite-tourmaline) and had a low percentage of pyrite within and proximal (0.5-2%). Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins and the QFP intrusions, displaying stronger, chlorite silica and sericite alteration as well as stronger deformation.

VH20-004

This hole was designed as a 70m eastward step out from VH20-003 and was primarily targeting the lateral continuity of the mineralization observed in 2019 at ~100m below the surface. In addition, this hole targets a parallel shear vein system which was encountered during 2018 and 2019 surface mapping programs and returned anomalous samples in in both programs. This hole was drilled with an orientation of 180.1/-50.8°.

Lithologies intersected in this hole were consistent with the lithologies seen in the 2019 drilling, a volcanic sequence which consisted predominately of intermediate to mafic volcanoclastic and volcanic units. These lithologies were crosscut by later quartz-feldspar porphyry intrusions. Three of these intrusions were seen in this hole. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units. A deformation zone was intercepted from 79.00 to 81.50 m. This intercept displayed increased alteration in the form of weak pervasive sericite, moderate fracture-fill chlorite. Veins make up 40% of this interval predominately with a quartz-carbonate-tourmaline-sericite assemblage. Overall, the interval showed 1% blebby pyrite and 0.5% disseminated pyrite. Two 0.20m quartz-carbonate quartz-carbonate-chlorite-tourmaline-sericite veins were seen within an interval from 360-361.5m. Both veins showed 2% blebby pyrite occurring along the vein margins. Host rock proximal to these veins showed increased silica alteration. A quartz-carbonate-chlorite veined zoned zone was observed from 489.5-490.7m. This interval occurs proximal to a Quartz-feldspar porphyry intrusion. Overall, the interval displays 40% slightly irregular veins varying in width and 60% host rock. Blebby pyrite (3%) was noted along the vein margins. Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins and the QFP intrusions, displaying stronger silica and sericite alteration as well as stronger deformation.

9.3.2 League-Lost Drilling

Seven holes, totalling 2,775 m were drilled in the League-Lost area as part of the summer drilling phase of the 2020 exploration program (Figure 14). The holes focused on the three dominate structures (Lost, Lost North and League) delineated during the 2020 mapping program. The holes were planned as a 50m spaced grid along the strike of the dominate structures with occasional ~125m north-east step-backs.

Geological drill logs can be found in Appendix J and drill hole cross sections can be found in Appendix K.

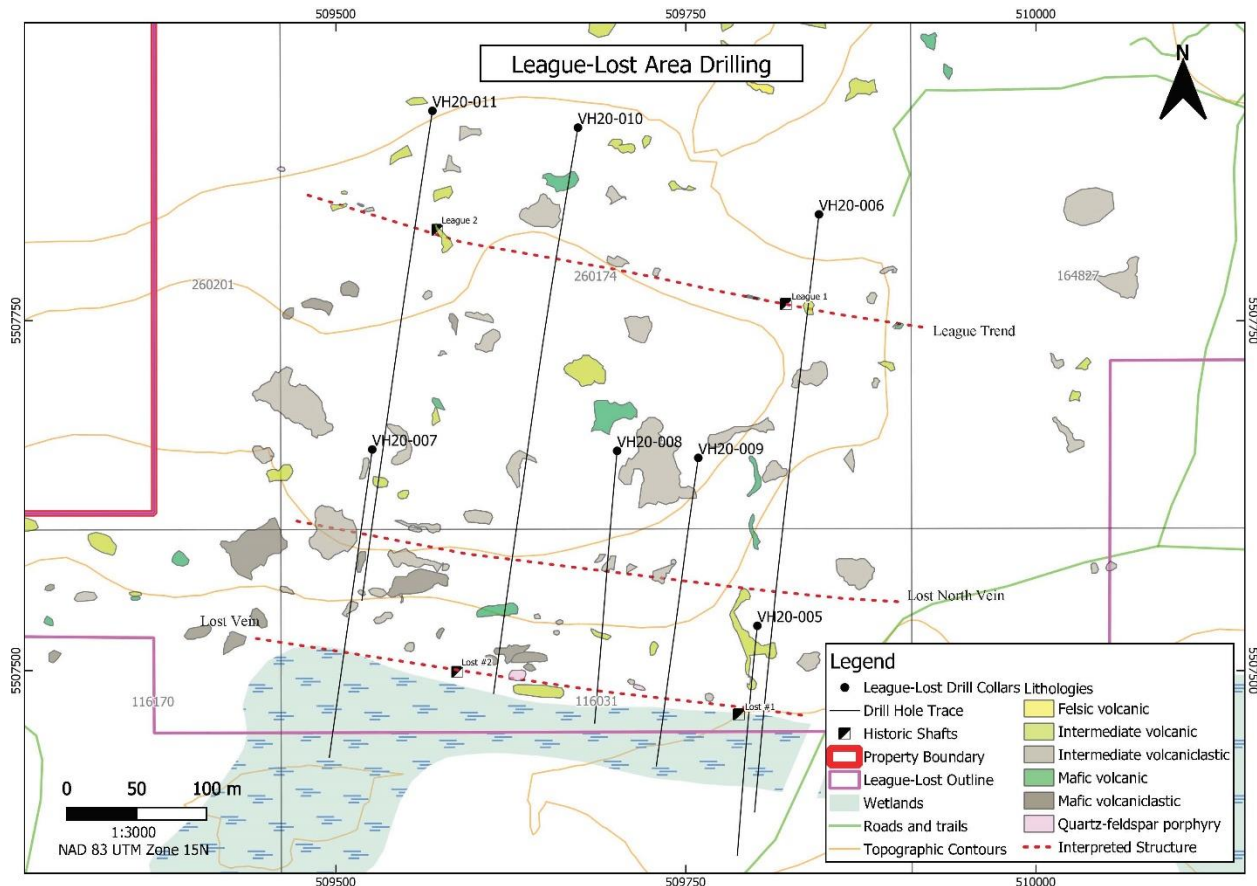


Figure 14: League-Lost Area Drilling Map including Hole Outlines

VH20-005

VH20-005 was drilled with an orientation of 186.6/-47.9°. This hole was designed to target the 50m vertical extension of the Lost Vein in proximity to the historic Lost shaft. Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a repeating series of intermediate volcanic and volcanoclastic units. Notable structures in this hole included an irregular quartz-carbonate-sericite-chlorite-tourmaline-pyrite vein set from 118.85-119.60m made up of three veins (0.20, 0.10, 0.05m) with 1% disseminated pyrite occurring in strongly silica altered wallrock. This is believed to be the Lost vein. A veined zone was observed from 131.20-134.0m made up of quartz-tourmaline-chlorite-pyrite±sphalerite. Silica alteration within the wallrock was strong. The interval was made up of 30% vein material and 70% wallrock. The last notable interval in this hole was a strong silica alteration zone from 162.35-163.33m. This interval was characterized by strong silica alteration with 4% sulphide mineralization (1% blebby pyrite, 3% blebby sphalerite). Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins, display stronger silica and sericite alteration as well as stronger deformation. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units.

VH20-006

VH20-006 was drilled with an orientation of 186.6/-47.8° and was designed to test all three potential vein systems; League, Lost North and Lost as well as any parallel systems that occur between League and Lost North. It was designed to target the League vein ~60m beneath the League #1 shaft, the Lost North vein ~275m below surface and the Lost vein ~375m below surface. This hole was a 300m step-back north-east of VH20-005. Lithologies intersected in this hole reflected the volcanic sequence seen during the mapping program, a repeating series of

intermediate volcanic and volcanoclastic units. Notable structures in this hole included a deformation zone from 92-95.10m. This zone was characterized by strong pervasive silica, weak pervasive sericite and weak fracture-fill chlorite with quartz veining throughout. The largest vein within the interval was a 0.15m quartz-carbonate-tourmaline vein with 2% blebby pyrite which occurs at the lower contact of the deformation zone. This interval was believed to be the League trend. From 185.98-186.2 m a 0.20 m wide quartz-carbonate-chlorite-tourmaline vein with 1% fracture-fill pyrite was observed with an alteration halo. An irregular quartz-carbonate-chlorite veined zone was observed from 424.5-425.75m. Mineralization in this veined zone was 2% blebby pyrite, 2% fracture-fill, 0.5% disseminated pyrrhotite and 1% disseminated pyrite. The interval was made up of 40% altered wallrock and 60% vein material. This structured is believed to be the Lost North vein. A veined zone with a low abundance of quartz-carbonate-chlorite±tourmaline veins (10% vein material 90% wallrock) was observed from 538.5-542.5. These veins all have similar widths and orientations (~0.15m) and display 1-2% pyrite along margins. Most notable vein occurs from 534.82 - 534.95m which displays 2% blebby pyrite, 1% fracture-fill pyrite and trace blebby pyrrhotite. This is believed to be the Lost vein. Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins, displaying stronger silica and sericite alteration as well as stronger deformation. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units.

VH20-007

VH20-007 was planned as a ~100m westward step-out west from the historic Lost Shaft #2 and was targeting the lateral and vertical continuity of the Lost and Lost North vein systems. It was designed to target the Lost North vein system at ~60m below surface and the Lost system at ~150m below surface. This hole was drilled with an orientation of 187.9/-52°.

Lithologies intersected in this hole reflected the volcanic sequence seen during the mapping program, a repeating series of intermediate volcanic and volcanoclastic units. Notable structures in this hole include a strong silica altered zone from 94-95m with a 0.26 m wide light grey quartz-carbonate-chlorite-pyrite vein. A 0.35 m thick quartz-carbonate-tourmaline-chlorite-pyrite was observed from 187.94-188.29 m. This vein contains approx. 2% blebby vein-fill pyrite. Vein was surrounded by a halo of strong pervasive chlorite alteration. This was believed to be the Lost North vein. Lastly a moderate deformation zone displaying multiple 0.02-0.05 m veins of similar orientation was identified from 205-207m. This interval was characterized by strongly deformed clasts with increased silica alteration and 0.5% disseminated pyrite. No structure in this hole displayed characteristics of the Lost vein, the vein may have pinched-out at depth. Deformation and alteration are consistent throughout the hole. Some localized areas, mostly around veins, displaying stronger silica and sericite alteration as well as stronger deformation. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units.

VH20-008

VH20-008 was designed as a ~50m eastward step-out from the historic Lost #2 shaft and was targeting the vertical continuity of the Lost vein at depth (~175m below surface). In addition, this hole targeted a parallel vein system (Lost North vein) at 75m below surface. This hole was drilled with an orientation of 185.7/-47.7°.

Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a repeating series of intermediate volcanic and volcanoclastic units. Notable feldspar porphyry intrusions were identified in this hole, which are consistent with the QFP intrusions seen on surface. Notable structures include a veined zone observed from 121-124.5m. This interval was made up of three veins. First at 121.17-121.36 m: a quartz-carbonate-chlorite-pyrite vein. Second at 122.04-122.21 m: a quartz-carbonate-chlorite-tourmaline-pyrite vein. Third at 124.28-124.36 m: a quartz-carbonate-chlorite vein. This interval displays increased pervasive silica alteration. This is believed to be the Lost North vein. The next notable zone occurs from 209.51-213.84m. This interval was characterized by increased silica alteration with three main veins: A 0.27 m thick quartz-carbonate-

chlorite-pyrite vein. Chlorite and carbonate are banded in the vein to provide a layered texture. This vein was surrounded by a chlorite alteration halo, then followed by a silica alteration halo. A 0.34 m thick quartz-carbonate-chlorite-sericite-pyrite-pyrrhotite vein. This vein was banded with chlorite and shows patches of sericite and carbonate. A 0.16 m thick quartz-carbonate-chlorite-pyrite vein. With a similar texture to the two previous veins. The last notable structure was a 0.64 m thick quartz-chlorite-feldspar-pyrite vein. Above the vein there was a chlorite alteration halo and below the vein there was a feldspar porphyry intrusion. This is believed to be the Lost north vein. The League trend was not identified in any major structure.

VH20-009

VH20-009 was drilled with an orientation of 188.5/-47.4°. It was designed as a ~50m westward step-out of the historic Lost #1 shaft and was targeting the vertical continuity of the Lost vein at depth (~175m below surface). In addition, this hole targeted a parallel vein system (Lost North vein) at 75m below surface.

Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a repeating series of intermediate volcanic and volcanoclastic units. Notable intervals included: A 0.33 m thick quartz-carbonate-chlorite-pyrite vein from 105.51-105.84m. This vein was surrounded by an intense silica alteration halo. This vein was banded with chlorite and contains 2% vein-fill pyrite. A veined zone occurred from 142-145m. The assemblage of the veins was quartz-carbonate-tourmaline-chlorite. The silica alteration through the zone was moderate to intense. The zone was made up of 20% vein material and 80% wallrock. This is likely the Lost North vein. The last notable structure was from 256-257.63m. This interval displays strong to intense deformation with strong sericite and silica alteration. Within this deformation zone are slightly irregular quartz-carb-pyrite veins with widths varying from 0.03-0.10m. Pyrite throughout the interval was high as 4%. This is assumed to be the Lost vein.

VH20-010

VH20-010 was drilled with an orientation of 190.0/-48.6°. It was designed to test all three potential vein systems League, Lost North and Lost as well as any parallel systems that occur between League and Lost North. It was designed to target midway between League #1 and League #2 historic. It targeted the League vein at ~75m beneath the surface, Lost North ~300m below surface and Lost at ~400m below surface. Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a repeating series of intermediate volcanic and volcanoclastic units. There were many smaller, but notable structures in this hole. From 123.27-123.41m a semi-irregular quartz-carbonate-chlorite vein with 1% vein-fill pyrite was noted. This is likely the League trend. From 423.07-423.39m a 0.30m quartz-carbonate-chlorite vein with mineralization occurring as 2% blebby pyrite, 1% vein-fill and 0.5% blebby chalcopyrite. A quartz-carbonate slightly irregular veined zone was seen from 444.60-445.4m, made up of 60% vein and 40% wallrock with 1% disseminated pyrite. This is likely the Lost North vein. From 494.22-494.6, a 0.38m quartz-carbonate-tourmaline-chlorite vein, 2% blebby pyrite, 1% blebby pyrrhotite and 0.5% fracture-fill pyrite. A 0.32m quartz-carbonate-tourmaline-chlorite vein set was seen from 499.19-499.47 with 2% blebby pyrite, 1% blebby pyrrhotite and 0.5% fracture-fill pyrite. From 565.11-565.4m, a 0.30m quartz-carbonate-chlorite vein with 0.5% blebby pyrite. This is thought to be the Lost vein. Foliation was consistent throughout the hole with volcanoclastic units exhibiting stronger foliation than the volcanic units.

VH20-011

VH20-011 was drilled with an orientation of 188.8/-50.0°. This hole was designed to test all three potential vein systems League, Lost North and Lost as well as any parallel systems that occur between League and Lost North. It was designed to target the League vein ~75m beneath League Shaft #2 in addition to targeting the Lost North system at ~300m below surface. This hole was a 250m step-back north-east of VH20-007. Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a repeating series of intermediate

volcanic and volcanoclastic units. The first notable structure intercepted in this hole was a strong alteration-deformation zone from 124.62-129.20m. Alteration consists of strong sericite and moderate to strong silica. This interval hosted a 0.22m quartz-carbonate-sericite-chlorite-pyrite-sphalerite vein with 4% pyrite 2% sphalerite. Below this vein are smaller possible relict veins. The total mineralization in the interval was 4% pyrite occurring as blebs and within fractures. This is assumed to be the League trend. The next notable intercept was an alteration zone from 220-243m. This zone was characterized by strong pervasive sericite and silica alteration with moderate patchy potassic alteration. Included in this interval are three notable structures: a 0.07 quartz-carbonate-pyrite vein with 3% pyrite from 227.45-227.54m, an irregular quartz-carbonate-chlorite-pyrite-tourmaline veined zone from 227.6-228.75 made up of 60% wallrock and 40% veining with 2% pyrite and lastly from 242.45-242.71m a 0.25m quartz-carbonate-chlorite-sericite-pyrite veined zone made up of intensely altered wallrock and 6% pyrite. The last notable zone in the hole was an interval from 418.40 to 422.45 displays a strong alteration zone consisting of strong pervasive sericite and silica as well as moderate patch ankerite alteration. Included in this interval are two veined zone, the first from 420.47-420.64, showing a 0.15 m quartz-tourmaline-carbonate-pyrite veined zone with two irregular veins. The second from 422.20 to 422.41m showing a 0.20 m veined zone with 0.06m quartz-carbonate-tourmaline-pyrite vein with a strongly altered and deformed lower contact which could possibly be a relict vein.

9.3.3 Redeemer Drilling

Six holes, totalling 847 m were drilled in the Redeemer area as part of the summer drilling phase of the 2020 exploration program (Figure 15). This area is in the norther portion of the Redeemer-Larson target area, proximal to the historic Redeemer shaft. These holes were designed to intercept the Redeemer trend at shallow vertical intercepts (50, 100m). All holes were drilled with a ~180 degree azimuth and a dip of around 45-50 degrees. This azimuth is predominantly perpendicular to all lithologies and major structures in the area.

Geological drill logs can be found in Appendix J and drill hole cross sections can be found in Appendix K.

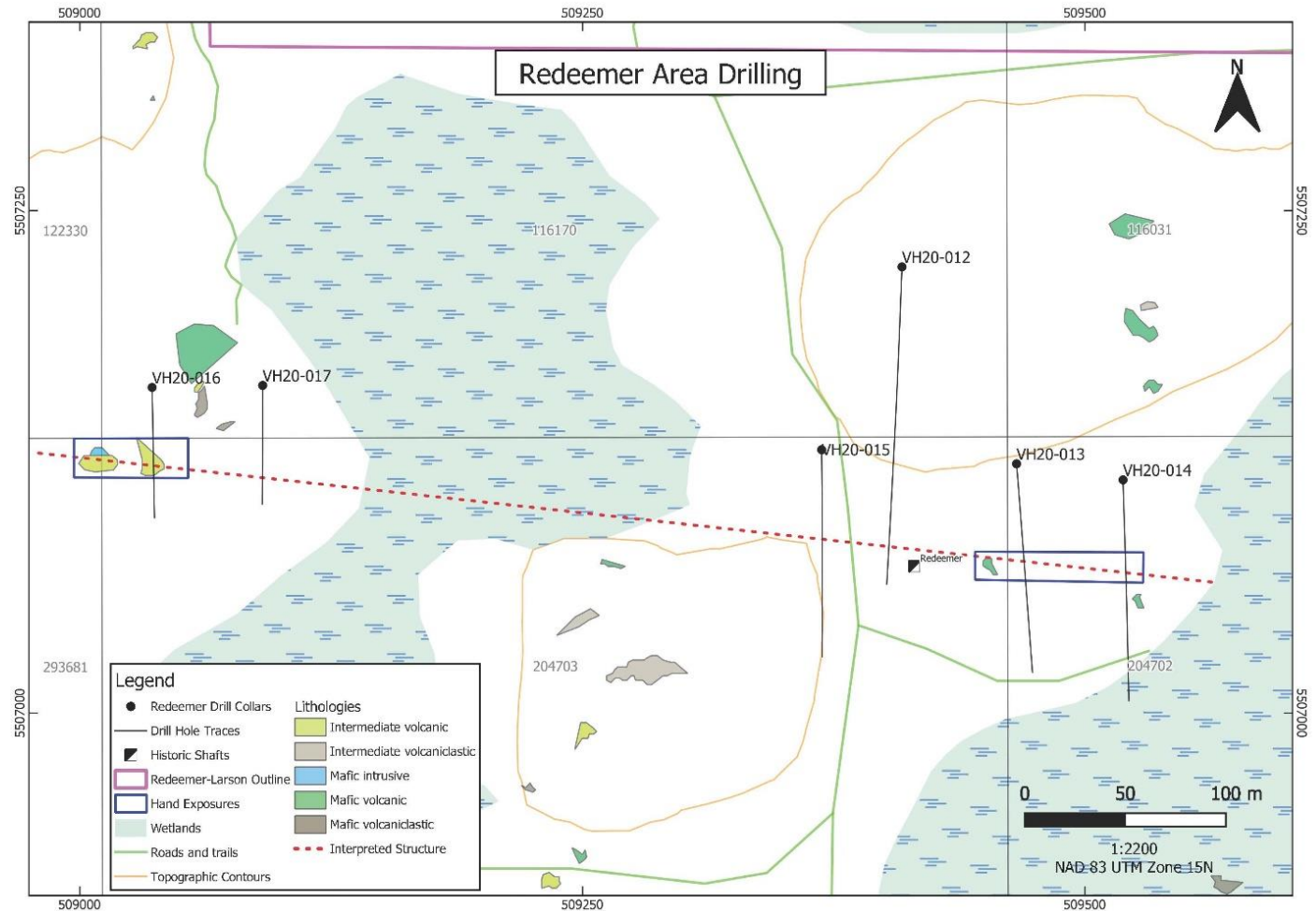


Figure 15 Redeemer Area Drilling Map including Hole Outlines

VH20-012

VH20-012 was drilled with an orientation of 182.6/-48°. This was the longest hole drilled in the Redeemer target area and was designed to intercept the Redeemer trend ~50m below the historic Redeemer shaft, 125m below surface. Lithologies intersected in this hole reflected the volcanic sequence identified during the mapping program, a sequence of mafic volcanic and intermediate volcanoclastic units. The hole was predominately mafic volcanics with a small, deformed, and mineralized intermediate volcanoclastic unit occurring near the top of the hole. The Redeemer trend was intercepted from 190-193m depth. It was represented as 3 (0.13, 0.18, 0.05 m wide) quartz-carbonate-tourmaline-pyrite veins with 3% pyrite along margins. Silica alteration above this interval was slightly higher than the rest of the hole which is consistent with what was observed on surface.

VH20-013

VH20-013 was drilled with an orientation of 175.4/-48°. This hole was designed as a 50m eastward step-out from the Redeemer shaft that would intercept the Redeemer trend 50m below the location of the anomalous samples taken as part of the field mapping phase. The hole consists mostly of the same mafic volcanic unit seen in hole VH20-012 collaring immediately into the weak-moderate silica altered portion. The Redeemer trend was intercepted at 69-71m. This interval was made up of 3 major (0.12, 0.30, 0.12 m) quartz-tourmaline-chlorite-pyrite veins with blebby pyrite

along margins. There were also wispy-slightly irregular veins occurring between the three major veins, the whole interval displays 5% pyrite. The hole finishes in a mafic volcanoclastic unit that presents similar alteration and mineralization as the initial mafic volcanic unit, but deformation was more obvious here as the clasts are slightly elongated.

VH20-014

VH20-014 was drilled with an orientation of 178.5/-46°. This hole was designed as a 100m eastward step out from the Redeemer shaft that would intercept the Redeemer trend 50m below the location of the anomalous samples taken as part of the field mapping phase. This hole began in a mafic volcanic unit that presents a massive texture and finished in a mafic volcanoclastic unit that presents a slightly foliated texture defined by elongated clasts. Overall, there is weak deformation and minimal sulfide mineralization visible in this hole with the rocks being primarily affected by moderate pervasive chlorite, silica, and carbonate alteration. Though the hole did not intercept the Redeemer trend, there was intense pervasive silica alteration at a depth that where the hole was expected to intercept the Redeemer trend. The most intense alteration patches containing a higher density of stringer vein were located between 58-59 m and 75-77 m.

VH20-015

VH20-015 was drilled with an orientation of 179.5/-48.7°. This hole was designed as a 50m westward step out from the Redeemer shaft that would intercept the Redeemer trend 50m below surface. Lithologies intercepted in this hole were consistent with lithologies seen in holes VH20-013 and VH20-014. This hole intersected the Redeemer trend at ~67-72 m, where it presented the same intense pervasive chlorite, silica and carbonate alteration and 3-7% sulfide mineralization in the form of wispy, blebby and vein-fill pyrite (with occasional chalcopyrite) as seen in VH20-012 and VH20-013. In all of the holes that have intersected the Redeemer trend, the veins in this “Redeemer Vein Zone” are typically a set of 1-40 cm thick quartz-carbonate-tourmaline-chlorite-pyrite, with the vein-wall rock margin being hard to observe because of the intense alteration halo in this zone. The mafic volcanoclastic unit was remarkable in this hole, as it presented the most intense sulfide mineralization seen this drill program. There were zones of ~10% semi-massive/wispy pyrite, 7-10% disseminated cubic pyrite and ~5% fracture-fill and blebby pyrite.

VH20-016

VH20-016 was drilled with an orientation of 179.2/-49.4°. This hole was designed as a 350m westward step out from the Redeemer shaft that would intercept the Redeemer trend 50m below the location of the anomalous samples taken as part of the 2019 and 2020 field mapping phases. VH20-016 collared into a coarse-grained felsic intrusive unit, which was the first time this unit was observed in this at Redeemer. The Redeemer trend was intersected as a “zone” in the mafic volcanic unit (~58-62 m), where it consisted of multiple quartz-carbonate-chlorite-pyrite veins. Once again, this hole finished in a mafic volcanoclastic unit. Overall, mineralization and alteration was less intense than observed in the Eastern holes.

VH20-017

VH20-017 was drilled with an orientation of 180.1/-46.7°. This hole was originally a secondary hole which was only to be drilled if VH20-016 was successful at intercepting the Redeemer trend. It was planned as a 50m eastward step-out from VH20-016 that would intercept the Redeemer trend 50m below surface. This hole collared into a mafic volcanic unit, and the felsic intrusive unit seen in VH20-016 was not observed here. This hole had small alternating patches of massive mafic volcanic and mafic volcanoclastic sequences. The Redeemer trend was hit in a mafic volcanic unit at ~63-67 m. The alteration and veins in this zone were much more similar to when it was hit in the eastern holes. Different from VH20-016, this hole presented a very intense silica alteration halo preceding the Redeemer trend, almost until the end of the hole (~77 m).

9.3.4 Vanlas Drilling

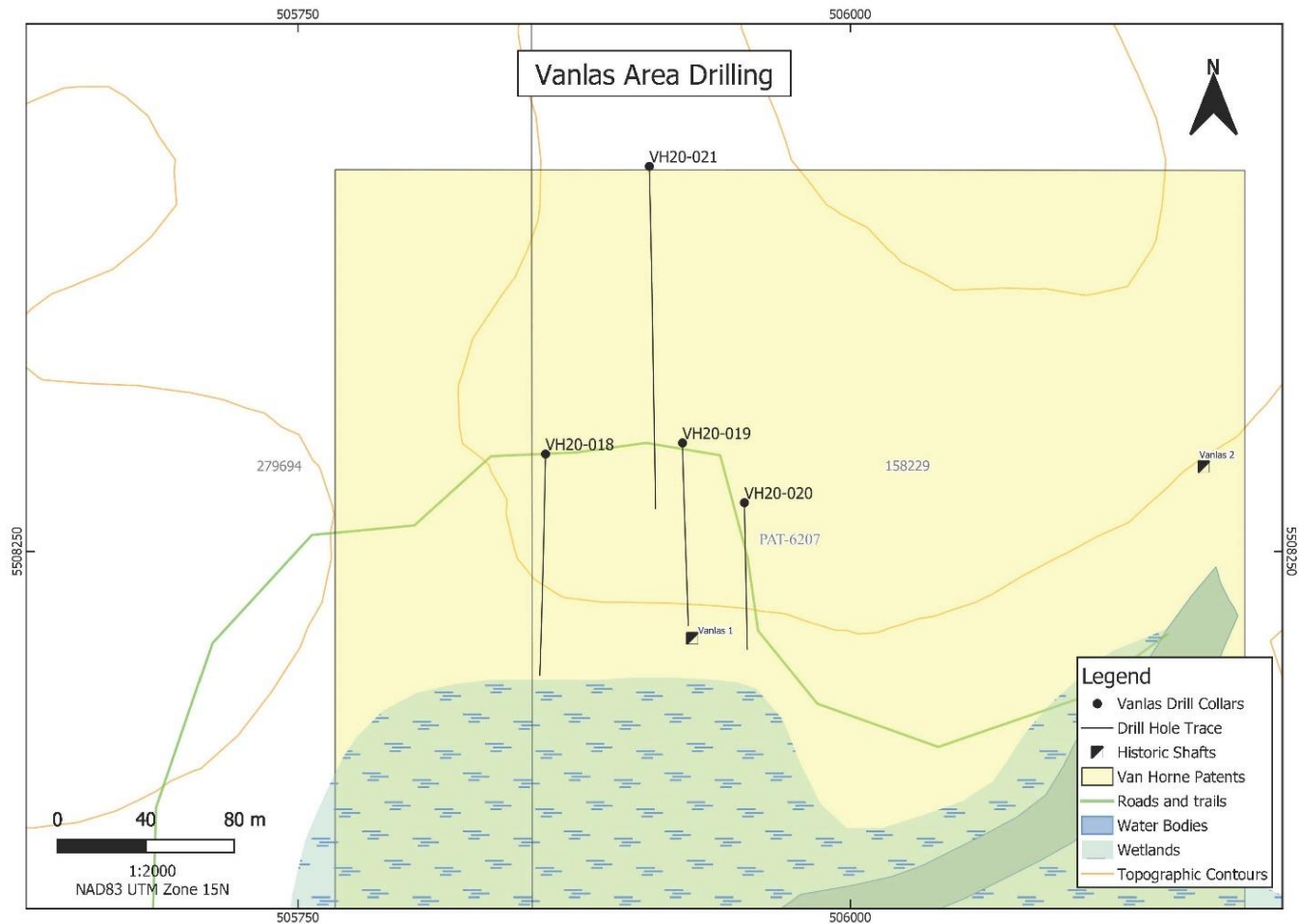


Figure 16 Vanlas Area Drilling Map including Hole Outlines

Four holes, totalling 567 m were drilled in the Vanlas area. This area is located on the east end of the Glatz-Vanlas target area, proximal to the Vanlas 1 and Vanlas 2 historic shafts (Figure 16). These holes were designed to follow up on values obtained in 2018 and to test the validity of the drilling done to produce the historic resource in the late 1980’s. These holes were spaced east-west along the strike of major structures with all holes having azimuths around 180 degrees to crosscut these structures.

VH20-018

VH20-018 was drilled with an orientation of 181.2/-45.1°. This hole was designed to test the western extents of mineralization found historic values obtained in drilling done in the 1980’s. Lithologies in this hole consisted of a cyclic volcanic sequence consisting of an intermediate volcanoclastic unit and a mafic volcanic unit. This hole intercepted an altered vein zone from 79.86 - 81.11m. This zone was made up of 0.01-0.03 m irregular quartz-carbonate-tourmaline veins along with strong pervasive silica, moderate pervasive sericite, weak patchy carbonate and weak fracture-fill tourmaline. The unit shows 3% blebby pyrite, 1% fracture-fill pyrite and 0.5% blebby chalcopyrite.

VH20-019

VH20-019 was drilled with an orientation of 178.9/-45°. This hole was designed to intercept an area between three historic holes (two from 1980's one from 2018) which all produced anomalous gold values. The goal of this hole was to validate the numbers obtained in the historic holes. Lithologies in this hole consisted of a cyclic volcanic sequence consisting of an intermediate volcanoclastic unit and a mafic volcanic unit. This hole was successful at intercepting the mineralized zones. These zones were characterized in two intervals. The first zone was observed from 67 – 73 m. It was characterized by moderate - strong pervasive silica, moderate - intense potassic and weak pervasive carbonate alteration. This interval shows 1% disseminated pyrite with fracture-fill chlorite and a breccia texture from 68.68-72.91m. This breccia texture hosts 3% fracture-fill, 1% disseminated and 0.5% blebby pyrite. The second zone was seen from 84-90m. The upper portion of the zone displayed strong pervasive potassic, strong pervasive silica and weak patchy chlorite alteration with 4% blebby pyrite, 1% disseminated pyrite and 1% vein-fill pyrite. There was also a moderate abundance of quartz-chlorite-tourmaline stringer veins with 1% vein-fill pyrite in the upper portion of this interval (84 - 86 m). Alteration and mineralization decrease through the middle part of the zone before increasing again from 88-90m. The lower portion of the zone displays intense pervasive silica, moderate fracture-fill chlorite and weak fracture-fill ankerite alteration was present, along with 3% blebby pyrite, 2% vein-fill pyrite and 0.5% disseminated pyrite. There was also a breccia texture noted within this interval with quartz veins occurring in various widths. Between the two zones (77.54 - 77.79 m) , was a 0.20 m quartz-carbonate-chlorite vein with 2% blebby pyrite.

VH20-020

VH20-020 was drilled with an orientation of 178.8/-46°. This hole was designed to intercept an untested area to the west of the mineralized zone delineated during the 1980 drilling. Lithologies in this hole consisted of a cyclic volcanic sequence consisting of an intermediate volcanoclastic unit and a mafic volcanic unit. This hole intercepted two notable zones. The first from 39.7-42.9m. This interval is characterized by strong pervasive potassic, moderate fracture-fill chlorite and strong pervasive silica alteration with 2% blebby and 0.5% vein-fill pyrite. Weak pervasive hematite alteration was noted from 40.2-42.9m. A low abundance of veins was identified within this interval and a breccia texture was observed around 40.2m. The second zone was observed from 50.5-54.2m. This interval displayed weak pervasive silica, moderate - strong pervasive hematite and weak patchy carbonate alteration with 1% blebby pyrite and 1% disseminated pyrite. Moderate abundance of veining was seen in this second zone and continued until the end of the hole. These veins were predominately quartz-carbonate-chlorite veins with 1-3% pyrite mineralization with varying thicknesses.

VH20-021

VH20-021 was drilled with an orientation of 178.7/-51.2°. This hole was designed to test the potential for mineralization at depth (200m below surface) as well as intercepting any parallel systems that occur between north of the historic Vanlas #1 shaft. Lithologies in this hole consisted of a cyclic volcanic sequence consisting of an intermediate volcanoclastic unit and a mafic volcanic unit. The first notable intercept in this hole occurred from 80.5-84m. This interval was characterised as an alteration zone displaying weak pervasive silica, moderate pervasive sericite and moderate patchy carbonate. Two notable veins were observed within this interval 81.34-81.60m and 83.63-84m. These veins displayed 1% blebby pyrite and 1% disseminated pyrite. The second notable interval occurred from 141.5 to 150.5m. This interval was characterised as a moderate deformation hosting an abundance of veins with a assemblage of quartz-carbonate-potassic-tourmaline with varying pyrite content. Deformation and alteration increased proximal to these veins. Overall, the interval displays 1% blebby pyrite and 0.5% disseminated pyrite. The last notable interval occurs from 211.5-223.54m. This interval hosts multiple notable veins. A strongly deformed 0.40m quartz-carbonate-chlorite vein with 2% pyrite and trace chalcopyrite, occurring from 214.72-215.09. A 0.60m quartz-carbonate-chlorite-tourmaline vein occurring from 218.20-218.80m. This vein displays 1%

blebby pyrite and 2% pyrite in proximal wall rock. Lastly a deformed 0.55 m quartz-carbonate-tourmaline-chlorite vein with 2% blebby pyrite and 1% vein-fill pyrite seen from 222.13-222.73m.

Table 3: Winter Drill Holes Final Collar Location, Orientations and Depth

Winter Drill Holes								
Hole-ID	Target	Claim Cell ID	UTM Easting	UTM Northing	Elevation (m)	Length (m)	Azimuth°	Dip°
VH20-001	Glatz	164274, 208824	505357	5508379	383	537	179.9	-51.5
VH20-002	Glatz	204065, 164274	505383	5508603	376	955	180.8	-61.1
VH20-003	Glatz	164273, 279694	505476	5508558	382	816	178.7	-59.5
VH20-004	Glatz	279694	505546	5508478	387	521	180.1	-50.8

Table 4: Summer Drill Holes Final Collar Location, Orientations and Depth

Summer Drill Holes								
Hole-ID	Target	Claim Cell ID	UTM Easting	UTM Northing	Elevation (m)	Length (m)	Azimuth°	Dip°
VH20-005	League-Lost	116031	509801	5507532	388	225	186.6	-47.9
VH20-006	League-Lost	260174, 116031	509845	5507826	380	576	186.6	-47.79
VH20-007	League-Lost	260174, 116032	509526	5507658	407	324	187.9	-52
VH20-008	League-Lost	260174, 116033	509701	5507657	405	282	185.7	-47.7
VH20-009	League-Lost	260174, 116034	509759	5507652	394	300	188.5	-47.4
VH20-010	League-Lost	260174, 116035	509673	5507888	391	570	190	-48.55
VH20-011	League-Lost	260174, 116036	509569	5507900	381	498	188.8	-50
VH20-012	Redeemer	116170, 204703	509409	5507222	389	226	182.6	-48
VH20-013	Redeemer	204702	509466	5507124	388	145	175.42	-46
VH20-014	Redeemer	204702	509519	5507116	382	150	178.47	-46
VH20-015	Redeemer	204703	509369	5507131	386	150	179.5	-48.7
VH20-016	Redeemer	116170, 204703	509036	5507162	394	94	179.2	-49.4
VH20-017	Redeemer	116170, 204703	509091	5507163	387	82	180.1	-46.7
VH20-018	Vanlas	PAT-6207	505862	5508294	373	136	181.2	-45.1
VH20-019	Vanlas	PAT-6207	505924	5508299	388	108	178.9	-45
VH20-020	Vanlas	PAT-6207	505952	5508272	385	92	178.8	-46
VH20-021	Vanlas	158229, PAT-6207	505909	5508424	393	231	178.7	-51.2

Table 5: Significant Results from the 2020 Van Horne Drill Programs

Significant Results from the 2020 Van Horne Drill Programs				
Hole-ID	From	To	Length	Au (ppm)
VH20-001	185	194.3	11.31	1.04
incl.	191.00	194.31	3.31	2.84
with	193.00	194.31	1.31	5.64
VH20-001	299.00	301.80	2.80	5.89
VH20-001	334.42	337.00	2.58	3.49
incl.	334.42	335.00	0.58	10.70
VH20-001	354.75	365.00	10.25	2.95
incl.	354.75	355.25	0.50	35.30
and	363.00	364.00	1.00	5.08
VH20-001	387.00	389.00	2.00	1.97
VH20-002	241.00	243.00	2.00	1.08
VH20-002	283.90	285.15	1.25	2.51
VH20-002	437.00	448.10	11.10	0.82
incl.	445.00	448.10	3.10	1.81
or.	446.00	448.10	2.10	2.13
VH20-002	523.00	554.50	31.50	0.82
incl.	526.36	528.50	2.14	4.66
and.	551.50	553.50	2.00	2.37
VH20-002	663.00	665.00	2.00	1.56
VH20-002	670.00	672.00	2.00	1.13
VH20-002	710.00	718.60	8.60	1.48
incl.	710.00	713.60	3.60	2.34
VH20-002	725.50	730.00	4.50	1.70
incl.	725.50	728.50	3.00	2.25
VH20-002	773.75	774.25	0.50	6.29
VH20-002	867.00	868.00	1.00	1.30
VH20-002	902.00	908.00	6.00	0.99
incl.	906.00	908.00	2.00	2.15
VH20-003	78.28	86.50	8.22	0.81
incl.	78.28	82.30	4.02	1.18
VH20-003	116.55	118.10	1.55	1.84
VH20-003	136.60	139.00	2.40	12.18
incl.	136.60	137.37	0.77	37.40
VH20-003	151.50	156.00	4.50	1.04
VH20-003	274.90	280.00	5.10	1.22
incl.	274.90	275.40	0.50	4.71
VH20-003	549.50	553.50	4.00	2.08
incl.	549.50	550.00	0.50	10.25
VH20-003	630.50	632.50	2.00	1.79
VH20-003	689.00	695.00	6.00	1.89
incl.	689.00	691.00	2.00	4.87
with	689.50	690.00	0.50	18.15

VH20-006	94.62	95.12	0.50	9.26
VH20-006	424.49	425.8	1.31	1.56
incl.	425.3	425.8	0.50	2.79
VH20-007	205	207	2.00	1.08
VH20-008	201	214.7	8.64	0.49
VH20-009	165	166	1.00	1.54
VH20-009	255	256	1.00	3.47
VH20-010	494	499.5	5.50	0.82
incl.	494	494.7	0.70	4.77
incl.	499	499.5	0.50	2.24
VH20-011	124.62	125.2	0.53	1.68
VH20-012	201.7	202.5	0.78	0.42
VH20-013	33	34	1.00	0.33
VH20-013	68.9	70.2	1.30	0.74
VH20-015	69.6	72.2	2.60	0.58
VH20-016	58	61.65	3.65	0.36
VH20-017	65	66	1.00	1.12
VH20-018	80.5	81.11	0.61	1.49
VH20-019	69.18	100	18.82	0.77
incl.	72	72.91	0.91	5.57
incl.	84	85	1.00	2.34
VH20-020	47.5	48	0.50	0.41
VH20-020	50	62	11.00	0.32
VH20-020	68	69	1.00	2.28
VH20-020	76.5	84	6.50	0.32
VH20-021	98	99	1.00	19.95
VH20-021	140.97	149	8.03	0.70
VH20-021	214.5	224	9.50	0.44

Drill core certificates of analysis can be found in Appendix I.

10.0 Sample Preparation, Analyses and Security

For the 2020 field program including both surface and drilling work, KG Exploration used ALS Global (ALS) which has sample preparation facilities in Thunder Bay, Ontario and analytical facilities in North Vancouver, British Columbia. The North American ALS analytical laboratories are accredited by the Standards Council of Canada (SCC) for specific tests listed in the Scopes of Accreditation which conforms with CANP-1579: Requirements for the Accreditation of Mineral Analysis Testing Laboratories and CAN-P4E ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories. All samples submitted to ALS whether for surface or drilling were analysed using the same techniques and for the same elements.

10.1 Sample Preparation

- Samples are submitted to ALS with a unique ALS sample tag; ALS records the tag number, weighs the samples and logs samples into their laboratory information management system (LIMS)
- If samples are excessively wet, they are dried
- Samples are crushed to better than 70% passing <-2mm;

- Samples are split using a riffle splitter with 250g pulverized to better than 85% passing <75µm
- Remainder of split is stored as coarse reject for 45 days before being returned to client;
- Crusher jaws and work stations are cleaned before the first sample of every new work order with barren material and compressed air;
- Grinding bowls are cleaned before the first sample of every new work order with silica and compressed air and between each subsequent sample with compressed air;
- A 100-150g split of each pulp sample is packaged and shipped to the analytical facilities in North Vancouver via courier. Pulps and coarse rejects are retained at the ALS Thunder Bay laboratory until requested by client for transfer to long term storage.

10.2 Sample Analyses

All drill core and surface samples were analyzed using Au-AA24 (Au) and ME-ICP61 (Ag, As, Cu, Zn) procedures. Where samples returned values greater than 3.0g/t Au, a gravimetric finish was applied (Au-GRA22) and where overlimits were encountered, ME-OG62 was used.

10.2.1 Au-AA24

Sample Decomposition: Fire Assay Fusion, Atomic Absorption Spectroscopy

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5ml dilute nitric acid in the microwave oven, 0.5ml concentrated hydrochloric acid is the added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4ml with de-mineralized water and analyzed by atomic absorption spectroscopy against matrix-matched standards.

Table 6: Detection Limits for Au-AA24

Element	Detection Limit	Upper Limit
Au	0.005ppm	10.0ppm

10.2.2 Au-GRA22

Sample Decomposition: Fire Assay Fusion, Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold.

Table 7: Detection Limits for Au-GRA22

Element	Detection Limit	Upper Limit
Au	0.05ppm	1,000.0ppm

10.2.3 ME-ICP61

Sample Decomposition: HNO3 – HClO4 – HF – HCl digestion, HCl Leach (4Acid)

A prepared sample (0.25g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and the resulting solution is analysed by ICP-AES spectrometry. Results are corrected for spectral interelement interferences.

Table 8: Detection Limits for ME-ICP61

Element	Detection Limit	Upper Limit
Ag	0.5ppm	100.0ppm
As	5.0ppm	10,000ppm
Cu	1ppm	10,000ppm
Zn	2ppm	10,000ppm

10.2.4 ME-OG62

Sample Decomposition: HNO₃ – HClO₄ – HF – HCl Digestions

A prepared sample (0.4g) is digested with nitric, perchloric, hydrofluoric and hydrochloric acids and then evaporated to incipient dryness. Hydrochloric acid and de-ionized water is added for further digestion and the sample is heated for an additional allotted time. The sample is cooled to room temperature and transferred to a volumetric flask (100ml). The resulting solution is diluted to volume with de-ionized water, homogenized and the solution is analyzed by ICP-AES or by atomic absorption spectrometry.

Table 9: Detection Limits for ME-OG62

Element	Detection Limit	Upper Limit
Ag	1ppm	1,500ppm
As	10ppm	300,000ppm
Cu	10ppm	500,000ppm
Zn	10ppm	300,000ppm

10.3 Security

Core samples are secured within the logging facility in Dryden, Ontario until their transport to ALS. This facility is secured and public access is restricted. Core samples are either shipped via tracked Gardewine transport or by Clark Exploration staff to ALS in Thunder Bay.

11.0 Data Verification

11.1 Drill Hole Data Validation

Drillhole related data undergoes various reviews in the validation process prior to being finalized in the database. Coordinate and survey data collected are reviewed upon completion to ensure accuracy requirements have been met. Collar coordinates are collected via handheld GPS using the waypoint average method and are checked against a GIS application to ensure accuracy. Downhole surveys are reviewed and validated for each hole to ensure quality assurance is met. This includes reviewing the survey in its entirety as well as between stations to ensure there are no outliers or irregularities. If any portion of the survey is called into question the identifying station or portion of survey is thus removed. Once validated, the survey will be finalized into the database (MX Deposit).

Logging, geotechnical and sampling data are recorded on laptops within a central database using the MX Deposit software. Once all information is entered into the drill log and the hole is complete, the data will be reviewed by the supervising geologist to ensure completeness. Once the drill hole has been validated the hole will be locked from further editing and its information will be available in final read-only tables.

11.2 Surface Data Verification

Surface data is reviewed in real-time during collection. This includes reviewing the shapefiles and ensuring that the GIS software is capturing all variables required including: the accurate shape of the outcrop and the details recorded. Field teams review the data for each outcrop/point collected prior to moving on to ensure all data is captured, accurate and saved.

11.3 Assay Validation

11.3.1 Drillhole Assays

Validation of analytical results is run by the MX Deposit software program with parameters predetermined by the supervising geologist. These parameters include; tolerance limits for laboratory standards and KGC inserted quality control (QC) materials as well as the mathematical conversions for results lower than the detection limits for each element being analyzed.

Analytical results are received from the laboratory and imported directly into MX Deposit software. During import the status of each sample being imported is recorded and time stamped, producing a detailed log. This log highlights any issues or failures associated with the import and is saved and reviewed by the supervising geologist. All values that report less than detection are converted to half of the lower detection limit.

11.3.2 Surface Assays

Validation of analytical results is completed manually by the supervising geologist with parameters predetermined. These parameters include the tolerance limits for KGC inserted quality control (QC) materials as well as the mathematical conversions for results lower than the detections limits for each element being analyzed.

Analytical results are received from the laboratory and are compiled and reviewed by the supervising geologist. During review the supervising geologist reviews the inserted QC samples against the predetermined tolerance limits and records the status of each QC sample. All values that report less than detection are converted to half of the lower detection limit.

11.4 Quality Assurance and Quality Control

Quality assurance (QA) and Quality Control (QC) measure for the 2020 field program included the insertion of blank and standard reference material and laboratory duplicate review.

11.4.1 Standard Reference Materials

Certified reference materials including standards and blanks were inserted into each stage of the sampling process throughout the 2020 field program including, grab samples, channel samples and drill sampling. Samples were submitted to ALS Global Laboratories (ALS) in Thunder Bay, Ontario in batches of 78 including the KGC inserted QC samples. For field samples this resulted in 1 QC sample approximately every 20 samples which accounted for roughly three QC samples per batch. For channel sampling and drilling QC samples were inserted approximately 1

in every 12 samples which resulted in seven QC samples per batch. The analytical results for the inserted QC samples were assessed by the supervising geologist and the MX Deposit software during certificate import.

A review of the standard reference materials showed relatively low variation between samples indicating the high precision and accuracy of the laboratory for the consistent replication during the assay process.

Table 10: Sources and Names for Standards and Blanks used in the 2020 Field Program

Material	Source	Total # Used in 2020	Total # Used in DDH Program
CDN-BL-10	CDN Resource Laboratories	126	119
Crush Blank	Canadian Tire	77	76
CDN-GS-1W	CDN Resource Laboratories	91	88
CDN-GS-7H	CDN Resource Laboratories	74	71
CDN-GS-25	CDN Resource Laboratories	4	4

11.4.2 Tolerance Limits

Certified pulp blank material was considered failed if the result of gold exceeded the maximum allowable upper limit, determined as three times the lower detection limit of the analytical method (0.15ppm). If a failure was detected, the certificate would be reviewed by the supervising geologist who would give the appropriate instruction to the laboratory to re-assay a selected interval from coarse rejects if necessary.

The CDN standard reference material (CRM) results for gold are assessed based on their recommended values and standard deviations as reported on their certificates. A standard sample fails if the results exceed three standard deviations. Additionally, a warning is used if the result falls between two and three standard deviations resulting in a review of adjacent results. Where a failure is detected the certificate is reviewed by the supervising geologist and the laboratory is instructed to re-assay from pulps a selection of samples surrounding the failure if necessary.

11.4.3 Laboratory Duplicates

Due to the highly nuggety nature of the deposit, no internal duplicates were selected throughout the field program. However, ALS Global regularly took duplicate samples in the primary laboratory stage (pulp split). Typically three pulp duplicates were performed per certificate for gold and one for multi-elements. Original assays results versus the pulp duplicate showed very little variation indicating the labs ability to reproduce at a high precision.

12.0 Conclusions

The 2020 exploration program was successful in providing validity to values collected in previous programs, both from surficial sampling and samples obtained from drill core. The program was also successful in developing targets for future exploration programs.

Through the program, it was determined that gold mineralization is predominantly in and around quartz veins displaying strong deformation with alteration along margins and extending into proximal host rock. This alteration can span multiple meters as seen in the Vanlas area drilling. Though it was also determined that not all quartz veins displaying alteration and notable accessory minerals such as tourmaline host gold mineralization. An example of this was seen in the League-Lost area.

Though the drilling at the League-Lost target was unsuccessful in producing consistent, anomalous gold values at depth, the data collected from these east-west structures (Lost North vein, League trend) can provide insight to the behaviour of other structures of similar orientation on the property.

Drilling in both the Redeemer and Vanlas areas were successful in producing anomalous gold values. In both areas, gold values occurred in intervals displaying deformed quartz veins, which are often silica and sericite altered. The veins in the Redeemer trend on the western holes (VH20-016, VH20-017) were observed in a less intense pervasive silica, chlorite, and carbonate alteration halo and were thinner and with a more obvious vein-wall rock margin, compared to the veins seen in the eastern Redeemer holes (VH20-011-VH20-015). Further work in these known mineralized areas will provide evidence as to the structural controls for mineralization on a property scale.

Mapping and sampling in the Lone Jack area were successful in producing additional anomalous gold values but was unsuccessful in determining structural controls for mineralization. This area remains a high priority target for future exploration.

13.0 Recommendations

The Van Horne property possesses many prospects in multiple stages of grass roots exploration, this allows for another multi-phase program to be performed on the property. The future program should consist of bedrock mapping and diamond drilling.

Favorable bedrock exposure throughout the property allows for another bedrock mapping program to develop exploration targets and provide lithological and structural data. The abundance of lakes throughout the property allows for efficient data collection via shoreline mapping. A future mapping program focusing on areas along strike of known areas of mineralization would likely have the highest chance of success. If the mapping program is successful in generating anomalous gold values, hand stripping should be performed proximal to these locations. Hand stripping has proven to be a viable option in areas that have little to no overburden. These strippings would provide additional data towards understanding structural controls of mineralization. Mapping in of all the new roads and trails created by the recent logging activity in the area should be done as well. These new roads could potentially provide better access for areas that were previously more remote.

With the success of the drilling in the Redeemer area, follow-up drilling is suggested. The diamond drilling would define and potentially extend the mineralized zone. Given the gold values and structures intercepted at the east and west sides of Redeemer, in-fill drilling between the two sides should be done to confirm strike length of the structure. Northern 50-meter step-backs of holes VH20-015 and VH20-016 should be done as well. These step-back holes would be drilled at the same orientation and would intercept the structure at a deeper depth testing the structure's characteristics at depth.

After the success of the Vanlas area drilling, follow-up drilling is suggested. The diamond drilling would define and potentially extend the mineralized zone. Drilling should be done with a goal of defining the alteration-deformation zones intercepted in the 2020 drill program but also to attempt to compare and contrast the structures seen in Vanlas to structures seen in Glatz during the 2019 drilling. This drilling should be planned after all historic drilling in the area has been compiled and reviewed. Given the orientation of the structures in the area, a 180° azimuth and a ~50° dip would be ideal for crosscutting all structures in the area.

Any further work should be accompanied by a whole rock sampling program. This would allow for definite lithological characterisation through all stages of the program and would allow for a possible core library to be developed for future drill programs.

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Appendix A: Certificate and Qualifications

CERTIFICATE AND QUALIFICATIONS

Percy Clark
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Telephone: 807-630-2794

CERTIFICATE OF QUALIFIED PERSON

I, Percy, do hereby certify that:

1. I graduated with the degree of Bachelor of Science (Geology) from Acadia University, Wolfville, Nova Scotia in 2017.
2. The "Report" refers to the report titled " Assessment Report on the Van Horne Project 2020 Exploration Program"
3. I am a registered Member in Training (M.I.T) the Association of Professional Geoscientists of Nova Scotia (#077).
4. I have worked as a Geologist for 3.5 years since my graduation from university.
5. I am responsible for the entire Report
6. As a member of the Clark Exploration Consulting field team, I was responsible for a portion of the field work performed documented in this report.
7. As of the date of this certificate, and to the best of my knowledge, information and belief, the Report contains all scientific and technical information that is required to be disclosed to make the Report not misleading.

Dated this 13th day of April, 2021.

SIGNED

"Percy Clark"

Percy Clark, M.I.T

Appendix B: Statement of Expenditures

Category	Classification	Amount	5% GST	13% HST	Total
Analytical	Assaying	\$138,558.56	-	\$7,161.13	\$145,719.69
Field Costs	Accommodation	\$30,910.12	-	\$1,836.96	\$32,747.08
	Accommodation Utilities	\$3,464.85	-	-	\$3,464.85
	Airfare	\$1,826.23	-	\$272.89	\$2,099.12
	Core Shack	\$22,000.00	-	\$2,860.00	\$24,860.00
	Core Shack Utilities	\$2,549.40	-	\$20.27	\$2,569.67
	Core Storage	\$9,492.00	-	-	\$9,492.00
	Food/Fuel	\$1,566.30	-	\$234.04	\$1,800.34
	Materials and Supplies	\$2,177.75	-	\$283.11	\$2,460.86
Land Access	R. Deitzer	\$2,080.00	-	-	\$2,080.00
Rentals	Truck Rental	\$416.31	-	\$49.96	\$466.27
	Downhole Tool Rentals (Reflex)	\$62,196.82	-	\$8,085.64	\$70,282.46
Drilling	Meterage	\$917,926.11	-	\$119,330.39	\$1,037,256.50
	Sample Shipments	\$13,375.44	-	\$1,256.09	\$14,631.53
Misc	Software Lease	\$1,000.00	-	\$130.00	\$1,130.00
	Stationery + Postage	\$108.72	-	\$16.25	\$124.97
Contractors	Fenwick Chipping	\$8,190.00	-	\$1,064.70	\$9,254.70
	Allan H. Hutchinson	\$19,872.00	-	\$2,583.37	\$22,455.37
	The Claim Group	\$6,470.63	-	\$731.25	\$7,201.88
	Wildwood Contracting	\$16,529.00	-	\$2,148.77	\$18,677.77
Consultants	Clark Exploration (12)	\$382,844.49	-	\$48,123.33	\$430,967.82
	Mike Wood	\$573.75	-	-	\$573.75
Totals		\$1,644,128.48	\$0.00	\$196,188.14	\$1,840,316.62

Appendix C: Claim Data

Appendix C :Claim Data

Van Horne Mining Claim Cells

Tenure ID	Tenure Type	Township / Area	Anniversary Date	Tenure Percentage	Holder
100584	Single Cell Mining Claim	AUBREY	2022-02-10	100	(100) Pure Gold Mining Inc.
101077	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
101743	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
101827	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-06-03	100	(100) Pure Gold Mining Inc.
101828	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
101964	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
101974	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
102050	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
102782	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-01	100	(100) Pure Gold Mining Inc.
102933	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
108754	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
108755	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
113838	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
113875	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
115955	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
115976	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
116031	Single Cell Mining Claim	VAN HORNE	2022-09-24	100	(100) Pure Gold Mining Inc.
116059	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
116060	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
116170	Single Cell Mining Claim	VAN HORNE	2022-09-24	100	(100) Pure Gold Mining Inc.
122328	Single Cell Mining Claim	VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
122330	Single Cell Mining Claim	VAN HORNE	2022-10-16	100	(100) Pure Gold Mining Inc.
122407	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
122958	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
122959	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
122960	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
123095	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
125136	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
125137	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-01	100	(100) Pure Gold Mining Inc.

125677	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
128297	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA,VAN HORNE	2022-06-03	100	(100) Pure Gold Mining Inc.
128938	Single Cell Mining Claim	VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
128939	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
128950	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
128952	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
128953	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
128978	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
129929	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
131984	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
131985	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
132722	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
133708	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
133949	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
143490	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
148577	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
148598	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
149327	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
149328	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
152114	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
155461	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
155462	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
158229	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
158850	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
161518	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
162111	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
162112	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
162114	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
163611	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
164236	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
164237	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
164248	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.

164270	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
164271	Single Cell Mining Claim	VAN HORNE	2022-03-20	100	(100) Pure Gold Mining Inc.
164272	Single Cell Mining Claim	VAN HORNE	2022-03-20	100	(100) Pure Gold Mining Inc.
164273	Single Cell Mining Claim	VAN HORNE	2022-03-20	100	(100) Pure Gold Mining Inc.
164274	Single Cell Mining Claim	VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
164827	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-08-01	100	(100) Pure Gold Mining Inc.
164828	Single Cell Mining Claim	VAN HORNE	2022-08-01	100	(100) Pure Gold Mining Inc.
168176	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
168177	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
170904	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
171531	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
171532	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
176068	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
196706	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
197380	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
204065	Single Cell Mining Claim	VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
204702	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-09-24	100	(100) Pure Gold Mining Inc.
204703	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-09-24	100	(100) Pure Gold Mining Inc.
204895	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
205405	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
205458	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
205836	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
208824	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
208858	Single Cell Mining Claim	AUBREY	2022-05-29	100	(100) Pure Gold Mining Inc.
211512	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
212127	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
212136	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
212157	Single Cell Mining Claim	VAN HORNE	2022-03-20	100	(100) Pure Gold Mining Inc.
215708	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
215709	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
216811	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
216812	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.

216813	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
217574	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
222641	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
222988	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
223532	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA,VAN HORNE	2022-06-03	100	(100) Pure Gold Mining Inc.
223654	Single Cell Mining Claim	VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
224192	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
230931	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
230939	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-10-16	100	(100) Pure Gold Mining Inc.
230962	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
231543	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
233428	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
233429	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
234764	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
235575	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
245605	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
245606	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
253671	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
253672	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
253673	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
260174	Single Cell Mining Claim	VAN HORNE	2022-09-11	100	(100) Pure Gold Mining Inc.
260199	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
260200	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
260201	Single Cell Mining Claim	VAN HORNE	2022-09-11	100	(100) Pure Gold Mining Inc.
262729	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
262730	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
262862	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
262863	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
264257	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
266173	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
268223	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
270314	Single Cell Mining Claim	VAN HORNE	2022-10-16	100	(100) Pure Gold Mining Inc.

271459	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
273628	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-01	100	(100) Pure Gold Mining Inc.
273629	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
277503	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
277504	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
278145	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
278146	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
278147	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
278161	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
278991	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-06-03	100	(100) Pure Gold Mining Inc.
279030	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
279031	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
279693	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
279694	Single Cell Mining Claim	VAN HORNE	2022-05-18	100	(100) Pure Gold Mining Inc.
282849	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
283576	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
283577	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
284314	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
287523	Single Cell Mining Claim	AUBREY	2022-06-03	100	(100) Pure Gold Mining Inc.
289762	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-05-29	100	(100) Pure Gold Mining Inc.
289763	Single Cell Mining Claim	VAN HORNE	2022-09-11	100	(100) Pure Gold Mining Inc.
290174	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
290175	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
290338	Single Cell Mining Claim	VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
293681	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-10-16	100	(100) Pure Gold Mining Inc.
294227	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
296962	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
296971	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
296972	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
297588	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
300019	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
301292	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.

302235	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
311314	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
311315	Single Cell Mining Claim	VAN HORNE	2022-06-15	100	(100) Pure Gold Mining Inc.
311346	Single Cell Mining Claim	AUBREY	2022-06-03	100	(100) Pure Gold Mining Inc.
312718	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
312734	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
312735	Single Cell Mining Claim	VAN HORNE	2022-11-23	100	(100) Pure Gold Mining Inc.
312754	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
314087	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-06-03	100	(100) Pure Gold Mining Inc.
314088	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
314680	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
314681	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
316066	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
318541	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
319660	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
319661	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
326126	Single Cell Mining Claim	CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
326146	Single Cell Mining Claim	VAN HORNE	2022-09-11	100	(100) Pure Gold Mining Inc.
326745	Single Cell Mining Claim	VAN HORNE	2022-04-03	100	(100) Pure Gold Mining Inc.
326782	Single Cell Mining Claim	VAN HORNE	2022-05-02	100	(100) Pure Gold Mining Inc.
326882	Single Cell Mining Claim	VAN HORNE	2022-05-04	100	(100) Pure Gold Mining Inc.
330648	Single Cell Mining Claim	CONTACT BAY AREA,VAN HORNE	2022-04-01	100	(100) Pure Gold Mining Inc.
330649	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-03	100	(100) Pure Gold Mining Inc.
330651	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-06-03	100	(100) Pure Gold Mining Inc.
332625	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
332626	Single Cell Mining Claim	CONTACT BAY AREA	2022-08-08	100	(100) Pure Gold Mining Inc.
332627	Single Cell Mining Claim	AUBREY	2022-06-03	100	(100) Pure Gold Mining Inc.
333181	Single Cell Mining Claim	AUBREY	2022-08-08	100	(100) Pure Gold Mining Inc.
340526	Single Cell Mining Claim	AUBREY,CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
340527	Single Cell Mining Claim	CONTACT BAY AREA	2022-03-12	100	(100) Pure Gold Mining Inc.
344644	Single Cell Mining Claim	CONTACT BAY AREA	2022-04-01	100	(100) Pure Gold Mining Inc.
345301	Single Cell Mining Claim	AUBREY	2022-05-29	100	(100) Pure Gold Mining Inc.

522962	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522963	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522964	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522965	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522966	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522967	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522968	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522969	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522970	Single Cell Mining Claim	AUBREY	2022-06-08	100	(100) Pure Gold Mining Inc.
522971	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522972	Single Cell Mining Claim	VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522973	Single Cell Mining Claim	VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522974	Single Cell Mining Claim	AUBREY,VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522975	Single Cell Mining Claim	VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522976	Single Cell Mining Claim	VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.
522977	Single Cell Mining Claim	VAN HORNE	2022-06-08	100	(100) Pure Gold Mining Inc.

Van Horne Patent Claims

Tenure Number	Title	Description	Area (ha)	Object ID
PAT-6205	Patent	Mining and Surface Rights	16.187	496291
PAT-6202	Patent	Mining and Surface Rights	12.141	496164
PAT-6203	Patent	Mining and Surface Rights	12.141	496165
PAT-6199	Patent	Mining and Surface Rights	16.187	496166
PAT-6197	Patent	Mining and Surface Rights	28.328	496167
PAT-6207	Patent	Mining and Surface Rights	16.187	496408
PAT-6200	Patent	Mining and Surface Rights	16.187	496275
PAT-6201	Patent	Mining and Surface Rights	16.187	496276
PAT-6198	Patent	Mining and Surface Rights	64.75	496277
PAT-6587	Patent	Mining and Surface Rights	16.187	496279
PAT-6196	Patent	Mining and Surface Rights	16.187	752548
PAT-6204	Patent	Mining and Surface Rights	11.331	762584
PAT-6206	Patent	Mining Rights	11.736	764238

Appendix D: Grab Sample Descriptions

MLT20-085	A0011171	509489	5097377	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Chalcopyrite	1	Fracture fill	Moderate	Ankerite	Fracture fill	Moderate	30 cm wide qtz vein, 2-3" fracture fill pyrite, 1% fracture fill chalc, blast hole sample.	0.266	0.5	15	10	25	TR0212476	
MLT20-084	A0011161	509788	5097024	Not set	6/30/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	0.5	Disseminated	Moderate	Silica	Perovskite	Moderate	400 carb veins, 1.0m wide, 0.5% pyrite, trace hematite	0.075	<0.5	<5	2	50	TR0212070	
MLT20-086	A0011178	509530	5097634	Not set	6/14/2020	Mike & Tammy	Outcrop	Intermediate volcanoclastic	Fine	Red-Brown	Glassy	Pyrite	3	Disseminated	Moderate	Iserrite	Hematite	Perovskite	Strong	Intermediate volcanoclastic, highly rutiled, along quartz vein sample, 20% vein, 80% wall rock, 3% disseminated pyrite most weathered	0.167	<0.5	<5	88	185	TR0212476
MLT20-040	A0011139	509742	5097195	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	0.5	Disseminated	Moderate	Silica	Perovskite	Weak	2 cm qtz vein, 0.5% pyrite, 95% vein	0.044	<0.5	<5	7	27	TR0212070	
MLT20-047	A0011146	509297	5097093	Not set	6/4/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	0.5	Disseminated	Moderate	Ankerite	Pyrite	Moderate	30 cm qtz vein, same vein as previous sample	0.093	<0.5	<5	2	24	TR0212070	
	A0011145	509297	5097091	Not set	6/4/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	1% wall rock, 1% in vein	Disseminated	Moderate	Ankerite	Pyrite	Weak	80% vein, 20% wall rock, 2-2.5 py. vein vein veins	0.099	<0.5	<5	4	35	TR0212070	
	A0011154	509683	5097486	Not set	6/6/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	0.5%	Disseminated	Weak	Calcite	Pyrite	Weak	500 carb veins, trace pyrite, 20 cm thick vein	0.075	<0.5	<5	5	10	TR0212070	
MLT20-079	A0011168	509706	5097572	Not set	6/18/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	1	Beddy	Moderate	Ankerite	Perovskite	Strong	Quartz vein, 30 cm wide, bedding 2-3 ft pyrite, moderate ankerite, moderate dolomite	0.062	1.1	<5	2	7	TR0212476	
PL20-039	A0011139	509458	5097072	Not set	6/24/2020	Percy and Lauren	Outcrop	Quartz vein	Medium	Beige	Sugary	Pyrite	1	Vein fill	Weak	Ankerite	Fracture fill	Moderate	N-6 stringer vein off of E-W vein, vein has veils	0.062	<0.5	<5	6	33	TR0204884	
MLT20-076	A0011167	509714	5097567	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Red-Brown	Sugary	Pyrite	1	Disseminated	Moderate	Ankerite	Perovskite	Strong	Quartz vein, 10 cm wide, 1% disseminated pyrite, high amounts of rust in rock and soil	0.056	<0.5	<5	8	27	TR0212476	
MLT20-018	A0011137	509784	5098011	Not set	5/11/2020	Mike, Lauren & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Sphalerite	0.1	Beddy and Disseminated	Moderate	Silica	Perovskite	Moderate	Quartz vein sample, trace sphalerite and pyrite	0.055	<0.5	<5	3	13	TR0212070	
MLT20-020	A0011144	509511	5098481	Not set	6/4/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Green	Porphyritic	Pyrite	1	Disseminated	Moderate	Pyrite	Perovskite	Moderate	Rhodum ground for slag and quartz phenocrysts, 20% vein, 80% qtz	0.011	<0.5	<5	2	23	TR0212070	
PL20-100	A0011104	509718	5097183	Not set	7/2/2020	Percy and Lauren	Outcrop	Quartz vein	Medium	Beige	Blocky	Pyrite	1	Beddy	Moderate	Ankerite	Pyrite	Moderate	possible copper rutile (chalcopyrite), along same trend as other veins, seen in area, adjacent to petroleum historic blast pit	0.028	<0.5	<5	28	67	TR0204884	
MLT20-040	A0011138	509739	5097205	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Green	Porphyritic	Pyrite	1	Disseminated	Moderate	Silica	Perovskite	Not set	Quartz vein, 10 cm wide, 1% disseminated pyrite	0.019	<0.5	<5	7	69	TR0212070	
	A0011138	509718	5097201	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Green	Porphyritic	Pyrite	1	Beddy	Moderate	Ankerite	Perovskite	Moderate	Quartz vein, 10 cm wide, 1% disseminated pyrite	0.018	<0.5	<5	7	31	TR0212070	
LP20-043	A0011136	509602	509692	Not set	5/11/2020	Mike, Lauren & Tammy	Outcrop	Intermediate Volcanic	Fine	Light Gray	Mattish	Pyrite	1	Disseminated	Moderate	Silica	Perovskite	Moderate	Wall rock sample, 7% disseminated pyrite, along silica alteration	0.016	<0.5	<5	117	63	TR0212070	
MLT20-018	A0011172	509690	5097375	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz Porphyry	Medium	Light Pink	Porphyritic	Pyrite	0.005	Disseminated	Moderate	Silica	Perovskite	Strong	Quartz Porphyry, dolomite and silica alteration, small 1.5 cm dike	0.015	<0.5	<5	25	70	TR0212476	
MLT20-051	A0011184	509498	5097624	Not set	6/14/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	Not set	Beddy	Moderate	Silica	Perovskite	Moderate	Quartz vein sample, 0.95% py. vein sample	0.013	<0.5	<5	1	49	TR0212476	
MLT20-041	A0011150	509719	5097488	Not set	6/4/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Green	Porphyritic	Pyrite	0.1	Disseminated	Moderate	Silica	Perovskite	Moderate	QFP, 20 cm wide at sample, trace py	0.012	<0.5	<5	3	22	TR0212070	
MLT20-041	A0011143	509740	5097225	Not set	6/30/2020	Mike & Tammy	Outcrop	Intermediate volcanoclastic	Fine	Light Green	Porphyritic	Pyrite	0.5	Disseminated	Strong	Silica	Perovskite	Moderate	highly oxidized intermediate volcanoclastic, rounded clasts, 0.5% pyrite	0.010	<0.5	<5	2	142	TR0212070	
MLT20-069	A0011143	509684	5097528	Not set	6/12/2020	Mike & Tammy	Outcrop	Intermediate Volcanic	Fine	Light Green	Mattish	Pyrite	1	Disseminated	Moderate	Silica	Pyrite	Moderate	intermediate volcanic, highly silicified, 1-2% pyrite within host rock	0.009	<0.5	<5	23	140	TR0212476	
MLT20-015	A0011136	509681	5098081	Not set	4/28/2020	Mike, Lauren & Tammy	Outcrop	Intermediate Volcanic	Fine	Red-Brown	Mattish	Pyrite	2	Beddy	Strong	Ankerite	Perovskite	Moderate	80% host rock, 20% vein, highly oxidized, moderate to strong ankerite, weak silica alteration, grab sample	0.008	<0.5	<5	15	33	TR0212070	
MLT20-066	A0011141	509696	5097631	Not set	6/14/2020	Lauren and Percy	Outcrop	Quartz vein	Medium	White	Blocky	Pyrite	0.1	Beddy	Moderate	Ankerite	Fracture fill	Moderate	moderate thick quartz vein	0.005	<0.5	<5	2	1	TR0212476	
SHV2	A0011140	509625	5097502	Not set	6/11/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	2	Disseminated	Moderate	Silica	Perovskite	Moderate	Cross Blank	0.007	<0.5	<5	8	24	TR0212476	
MLT20-059	A0011134	509665	5097028	Not set	6/10/2020	Mike, Lauren & Tammy	Outcrop	Quartz vein	Medium	Green	Porphyritic	Pyrite	1	Disseminated	Moderate	Silica	Perovskite	Moderate	15 cm qtz carb vein, trace chalc, 2% py	0.007	<0.5	<5	1	11	TR0212476	
MLT20-052	A0011151	509721	5097465	Not set	6/30/2020	Mike & Tammy	Outcrop	Intermediate volcanoclastic	Fine	Light Green	Porphyritic	Pyrite	0.5	Disseminated	Moderate	Silica	Perovskite	Moderate	80% wall rock, 20% quartz vein, 1% disseminated pyrite, QFP wall rock	0.006	<0.5	<5	2	30	TR0212070	
MLT20-057	A0011156	509624	5097493	Not set	6/8/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	Red-Brown	Sugary	Pyrite	0.025	Disseminated	Moderate	Ankerite	Pyrite	Moderate	intermediate volcanoclastic, "chalcopyrite" texture vein, with fracture fill chalc	0.006	<0.5	<5	2	12	TR0212070	
MLT20-080	A0011170	509694	5097574	Not set	6/13/2020	Mike & Tammy	Outcrop	Quartz vein	Medium	White	Sugary	Pyrite	1	Fracture fill	Moderate	Ankerite	Fracture fill	Moderate	90% vein, 10% wall rock, 1% fracture fill pyrite, 0.5% fracture fill chalcopyrite, 50 cm wide vein	0.006	<0.5	<5	2	19	TR0212476	

Appendix E: Grab Sample Certificates of Analysis



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CERTIFICATE TB20109488

Project: VanHorne

This report is for 22 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 25-MAY-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20109488

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
A0051101		1.60	<0.5	<5	57	65	<0.005	
A0051102		1.27	<0.5	<5	25	35	0.014	
A0051103		1.54	<0.5	<5	2	27	0.099	
A0051104		1.38	<0.5	5	16	95	0.005	
A0051105		1.44	<0.5	<5	15	67	<0.005	
A0051106		1.25	<0.5	<5	4	11	0.028	
A0051107		1.59	<0.5	<5	3	14	0.217	
A0051108		1.34	<0.5	<5	4	15	0.005	
A0051109		1.65	0.8	<5	63	266	0.109	
A0051110		3.17	0.5	<5	24	122	0.007	
A0051111		2.43	<0.5	<5	5	6	<0.005	
A0051112		0.82	<0.5	<5	4	14	0.013	
A0051113		0.84	<0.5	<5	4	21	0.036	
A0051114		1.03	<0.5	<5	3	53	<0.005	
A0051115		1.82	<0.5	<5	2	17	0.010	
A0051116		0.85	<0.5	<5	22	150	0.021	
A0051117		1.55	<0.5	<5	52	122	0.611	
A0051118		2.14	<0.5	<5	6	21	0.443	
A0051119		1.96	<0.5	10	1	43	1.180	
A0051120		0.12	<0.5	<5	18	38	<0.005	
A0051121		0.87	<0.5	<5	2	35	0.567	
A0051122		2.23	<0.5	<5	10	29	8.86	8.40



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20109488

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20122079

Project: VanHorne

This report is for 33 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 10-JUN-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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.

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Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20122079

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
A0051123		0.61	<0.5	<5	33	70	<0.005	
A0051124		0.98	<0.5	<5	3	38	<0.005	
A0051125		1.19	<0.5	<5	10	203	<0.005	
A0051126		0.52	<0.5	<5	15	33	0.008	
A0051127		1.33	<0.5	<5	3	18	<0.005	
A0051128		1.17	<0.5	<5	19	33	<0.005	
A0051129		1.55	<0.5	<5	17	57	<0.005	
A0051130		1.13	<0.5	<5	6	37	<0.005	
A0051131		1.15	<0.5	<5	6	52	<0.005	
A0051132		1.04	<0.5	<5	1	3	<0.005	
A0051133		1.51	0.5	<5	34	64	0.477	
A0051134		1.26	<0.5	<5	2	30	0.006	
A0051135		0.39	<0.5	<5	<1	9	<0.005	
A0051136		1.05	<0.5	<5	157	63	0.016	
A0051137		0.77	<0.5	<5	12	31	0.055	
A0051138		0.97	<0.5	<5	7	69	0.019	
A0051139		0.31	<0.5	<5	7	27	0.094	
A0051140		0.11	1.5	15	44	90	1.065	
A0051141		0.45	<0.5	<5	2	50	0.251	
A0051142		0.61	<0.5	<5	2	142	0.010	
A0051143		1.51	<0.5	<5	1	133	1.545	
A0051144		1.05	<0.5	<5	2	23	0.031	
A0051145		0.84	<0.5	<5	4	35	0.089	
A0051146		0.40	<0.5	<5	2	24	0.093	
A0051147		1.06	<0.5	<5	9	36	<0.005	
A0051148		1.32	<0.5	<5	3	31	0.018	
A0051149		0.50	1.8	60	27	59	>10.0	10.15
A0051150		0.79	<0.5	<5	5	22	0.012	
A0051151		0.97	<0.5	<5	<1	51	0.006	
A0051152		0.53	1.4	12	5	9	8.47	8.73
A0051153		1.93	<0.5	5	1	14	0.542	
A0051154		2.31	<0.5	<5	5	10	0.075	
A0051155		1.20	<0.5	<5	1	23	0.745	



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CERTIFICATE OF ANALYSIS TB20122079

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20125876

Project: VanHorne

This report is for 33 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 15-JUN-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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.

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Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20125876

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
A0051156		1.33	1.9	<5	21	43	0.006	
A0051157		0.50	<0.5	<5	2	6	<0.005	
A0051158		0.95	<0.5	<5	17	92	0.525	
A0051159		1.77	<0.5	<5	54	59	1.020	
A0051160		0.50	<0.5	6	8	24	0.007	
A0051161		0.92	<0.5	7	14	32	0.391	
A0051162		1.60	<0.5	<5	1	11	0.007	
A0051163		1.38	<0.5	<5	23	1240	0.009	
A0051164		1.22	<0.5	<5	1	5	<0.005	
A0051165		1.38	<0.5	<5	2	15	0.303	
A0051166		0.63	0.5	12	13	141	2.48	
A0051167		1.70	<0.5	5	8	27	0.056	
A0051168		0.77	1.2	<5	2	7	0.062	
A0051169		1.36	<0.5	<5	1	33	<0.005	
A0051170		1.22	<0.5	<5	2	19	0.006	
A0051171		2.07	0.5	15	10	25	0.266	
A0051172		1.18	<0.5	<5	21	70	0.015	
A0051173		1.35	<0.5	<5	1	2	<0.005	
A0051174		1.24	<0.5	<5	2	2	<0.005	
A0051175		0.85	<0.5	<5	1	7	<0.005	
A0051176		1.32	0.6	<5	29	12	>10.0	14.80
A0051177		1.67	<0.5	<5	12	11	>10.0	8.64
A0051178		1.51	<0.5	<5	88	185	0.167	
A0051179		1.27	<0.5	<5	5	3	1.445	
A0051180		0.11	0.7	6220	50	70	6.47	7.02
A0051181		1.60	<0.5	7	1	2	0.008	
A0051182		2.02	<0.5	<5	1	10	<0.005	
A0051183		0.82	<0.5	<5	2	13	1.010	
A0051184		2.44	<0.5	<5	1	49	0.013	
A0051185		3.60	<0.5	9	41	520	0.821	
A0051186		3.16	1.3	22	6	12	5.69	5.53
A0051187		1.38	0.6	<5	36	39	0.778	
A0051188		0.57	<0.5	<5	3	26	<0.005	



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CERTIFICATE TB20134184

Project: VanHorne

This report is for 50 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 25-JUN-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20134184

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
A0050051		1.20	<0.5	<5	1	46	<0.005	
A0050052		1.15	<0.5	<5	12	35	0.215	
A0050053		1.66	<0.5	<5	88	20	0.648	
A0050054		2.41	0.6	<5	37	36	1.935	
A0050055		1.10	<0.5	<5	8	28	0.472	
A0050056		1.15	<0.5	<5	64	158	0.081	
A0051189		2.11	<0.5	<5	15	54	1.385	
A0051190		1.31	1.3	<5	8	11	3.84	4.22
A0051191		1.04	<0.5	<5	2	54	0.007	
A0051192		1.80	<0.5	<5	10	44	<0.005	
A0051193		1.08	<0.5	<5	7	48	<0.005	
A0051194		0.74	1.2	10	15	145	<0.005	
A0051195		2.44	<0.5	<5	5	35	<0.005	
A0051196		1.92	<0.5	<5	5	43	<0.005	
A0051197		1.34	<0.5	<5	<1	29	<0.005	
A0051198		1.08	<0.5	45	10	161	<0.005	
A0051199		1.02	0.7	<5	16	105	<0.005	
A0051200		0.11	<0.5	<5	19	39	<0.005	
A0051201		1.57	<0.5	<5	1	22	<0.005	
A0051202		2.39	<0.5	<5	<1	8	<0.005	
A0051203		1.11	<0.5	<5	4	82	<0.005	
A0051204		1.07	<0.5	<5	8	102	<0.005	
A0051205		1.56	<0.5	<5	16	9	<0.005	
A0051206		0.65	<0.5	<5	59	29	<0.005	
A0051207		1.62	<0.5	<5	5	19	<0.005	
A0051208		1.08	<0.5	<5	5	33	0.034	
A0051209		1.40	<0.5	<5	7	104	0.157	
A0051210		1.59	<0.5	5	1	42	0.018	
A0051211		0.92	<0.5	<5	11	40	<0.005	
A0051212		1.22	<0.5	<5	11	60	<0.005	
A0051213		1.06	<0.5	<5	6	29	<0.005	
A0051214		1.61	<0.5	<5	19	156	<0.005	
A0051215		1.36	<0.5	<5	1	147	<0.005	
A0051216		2.57	<0.5	14	26	114	0.019	
A0051217		1.43	<0.5	16	14	122	0.019	
A0051218		1.54	0.5	13	1	21	<0.005	
A0051219		1.82	<0.5	<5	6	16	<0.005	
A0051220		0.11	1.2	18	41	89	1.080	
A0051221		1.43	<0.5	5	1	10	0.096	
A0051222		1.43	<0.5	<5	3	16	0.014	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20134184

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 As ppm 5	ME-ICP61 Cu ppm 1	ME-ICP61 Zn ppm 2	Au-AA24 Au ppm 0.005	Au-GRA22 Au ppm 0.05
A0051223		2.23	<0.5	<5	12	49	0.095	
A0051224		1.76	<0.5	<5	53	109	0.019	
A0051225		2.16	<0.5	<5	1	15	0.006	
A0051226		1.51	<0.5	5	48	107	0.039	
A0051227		0.97	<0.5	<5	1	3	<0.005	
A0051228		1.79	<0.5	<5	28	116	<0.005	
A0051229		1.48	<0.5	<5	13	67	<0.005	
A0051230		1.95	0.5	7	8	30	3.20	3.14
A0051231		2.38	<0.5	<5	14	8	0.560	
A0051232		1.17	<0.5	5	17	64	0.425	



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CERTIFICATE TB20140884

Project: VanHorne

This report is for 60 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 3-JUL-2020.

The following have access to data associated with this certificate:

GRAHAM LONG

KELSEY PRIVETT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20140884

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.005	0.05
A0051233		1.33	<0.5	<5	2	21	<0.005	
A0051234		1.63	<0.5	<5	5	42	<0.005	
A0051235		2.15	<0.5	<5	11	47	<0.005	
A0051236		0.73	<0.5	<5	4	31	<0.005	
A0051237		1.47	<0.5	<5	1	8	<0.005	
A0051238		1.47	<0.5	<5	8	67	0.306	
A0051239		1.08	<0.5	<5	8	33	0.062	
A0051240		0.12	<0.5	<5	17	36	0.015	
A0051241		1.97	<0.5	<5	<1	4	<0.005	
A0051242		1.54	<0.5	<5	<1	8	<0.005	
A0051243		1.39	0.9	<5	573	98	0.015	
A0051244		1.61	<0.5	<5	27	90	<0.005	
A0051245		1.77	<0.5	<5	36	61	<0.005	
A0051246		1.77	<0.5	<5	2	6	<0.005	
A0051247		1.35	<0.5	<5	5	20	<0.005	
A0051248		1.90	<0.5	<5	35	53	<0.005	
A0051249		1.07	<0.5	<5	171	136	<0.005	
A0051250		2.28	0.6	5	13	85	8.04	7.98
A0051251		2.52	3.6	<5	462	588	2.45	
A0051252		2.67	3.3	6	65	503	>10.0	11.35
A0051253		3.04	0.8	<5	117	177	0.180	
A0051254		2.93	1.0	5	154	251	0.056	
A0051255		2.28	1.0	<5	75	184	2.77	
A0051256		1.76	<0.5	<5	28	72	1.470	
A0051257		2.95	<0.5	6	35	86	0.154	
A0051258		2.42	0.7	35	42	148	6.24	6.25
A0051259		1.61	<0.5	<5	10	50	0.271	
A0051260		0.11	0.7	6180	51	72	6.48	6.40
A0051261		2.79	0.7	7	35	117	5.82	5.47
A0051262		2.70	<0.5	<5	55	29	>10.0	10.35
A0051263		1.61	<0.5	<5	9	85	0.460	
A0051264		1.93	<0.5	5	10	44	0.452	
A0051265		1.87	<0.5	<5	47	112	0.366	
A0051266		2.01	<0.5	<5	11	30	0.125	
A0051267		1.36	0.6	13	38	38	2.69	
A0051268		1.10	<0.5	<5	77	150	0.050	
A0051269		1.80	<0.5	<5	34	48	0.117	
A0051270		1.71	1.0	14	35	50	2.42	
A0051271		2.59	<0.5	<5	11	33	0.011	
A0051272		1.92	<0.5	<5	11	43	0.014	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20140884

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
A0051273		2.57	<0.5	9	14	42	0.037	
A0051274		1.71	<0.5	<5	39	148	<0.005	
A0051275		1.45	<0.5	<5	1	5	<0.005	
A0051276		2.09	<0.5	<5	20	89	<0.005	
A0051277		2.43	<0.5	<5	19	42	1.035	
A0051278		0.92	<0.5	<5	2	13	<0.005	
A0051279		1.14	<0.5	<5	4	40	<0.005	
A0051280		0.11	<0.5	<5	18	39	0.008	
A0051281		2.07	3.0	<5	496	94	0.010	
A0051282		1.50	9.3	6	395	66	0.022	
A0051283		1.70	0.7	<5	300	227	<0.005	
A0051284		0.77	<0.5	<5	3	3	<0.005	
A0051285		0.63	<0.5	<5	5	13	<0.005	
A0051286		1.05	<0.5	<5	268	38	0.733	
A0051287		1.04	1.0	<5	170	57	0.152	
A0051288		1.06	<0.5	<5	123	34	0.265	
A0051289		1.28	<0.5	<5	117	41	0.306	
A0051290		1.39	<0.5	<5	41	57	0.193	
A0051291		1.29	<0.5	<5	36	46	0.133	
A0051294		1.64	<0.5	<5	24	67	0.028	

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



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CERTIFICATE OF ANALYSIS TB20140884

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20151047

Project: VanHorne

This report is for 21 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 16-JUL-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP61	33 element four acid 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.

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Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20151047

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm
		0.02	0.5	5	1	2	0.005
A0051292		0.99	0.5	<5	4	51	<0.005
A0051293		1.19	<0.5	<5	5	5	0.005
A0051295		0.96	<0.5	<5	1	32	<0.005
A0051296		1.40	<0.5	<5	42	116	<0.005
A0051297		0.91	<0.5	<5	38	126	<0.005
A0051298		1.08	<0.5	<5	5	37	<0.005
A0051299		1.47	<0.5	<5	9	15	<0.005
A0051300		0.11	1.5	19	43	90	1.075
A0051301		0.88	<0.5	<5	13	107	0.005
A0051302		1.38	<0.5	<5	28	58	<0.005
A0051303		1.50	<0.5	<5	1	7	<0.005
A0051304		1.29	<0.5	<5	3	26	<0.005
A0051305		1.05	<0.5	<5	6	45	<0.005
A0051306		0.83	<0.5	<5	1	9	<0.005
A0051307		1.11	<0.5	<5	1	7	<0.005
A0051308		1.69	<0.5	<5	7	37	<0.005
A0051309		1.74	<0.5	<5	9	32	<0.005
A0051310		1.50	<0.5	<5	8	31	0.007
A0051311		2.08	<0.5	<5	16	22	0.005
A0051312		1.74	<0.5	<5	8	40	<0.005
A0051313		1.34	<0.5	<5	10	57	<0.005



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20151047

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	ME-ICP61	



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CERTIFICATE TB20169287

Project: Van Horne

This report is for 54 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 7-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG

KELSEY PRIVETT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
 TORONTO ON M5J 2V5

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 Total # Pages: 3 (A)
 Plus Appendix Pages
 Finalized Date: 27-AUG-2020
 Account: KECIBQJN

Project: Van Horne

CERTIFICATE OF ANALYSIS TB20169287

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	Au-GRA22 Au Check ppm
A0051314		1.81	<0.5	<5	10	99	<0.005		
A0051315		1.46	<0.5	<5	8	33	<0.005		
A0051316		1.33	<0.5	<5	1	124	<0.005		
A0051317		2.35	<0.5	<5	24	43	<0.005		
A0051318		1.69	<0.5	<5	11	70	<0.005		
A0051319		2.44	<0.5	<5	8	53	<0.005		
A0051320		2.64	<0.5	<5	45	14	<0.005		
A0051321		3.29	<0.5	<5	22	50	<0.005		
A0051322		1.49	<0.5	<5	3	17	<0.005		
A0051323		2.36	<0.5	<5	2	13	<0.005		
A0051324		1.93	<0.5	<5	2	28	<0.005		
A0051325		1.51	<0.5	<5	100	105	<0.005		
A0051326		1.73	<0.5	<5	4	20	0.005		
A0051327		1.88	<0.5	<5	8	30	<0.005		
A0051328		1.51	0.9	19	7	20	0.005		
A0051329		1.61	<0.5	<5	5	134	<0.005		
A0051330		1.19	<0.5	<5	2	26	0.006		
A0051331		1.47	<0.5	<5	2	18	<0.005		
A0051332		3.49	<0.5	<5	4	188	0.007		
A0051333		1.99	<0.5	<5	2	22	<0.005		
A0051334		2.51	<0.5	<5	2	155	0.022		
A0051335		2.05	<0.5	<5	4	39	0.074		
A0051336		2.45	3.3	<5	71	2950	3.52	2.22	2.15
A0051337		3.90	1.0	<5	42	108	1.730		
A0051338		1.91	2.2	<5	42	894	1.820		
A0051339		1.38	0.6	<5	50	570	0.401		
A0051340		0.11	<0.5	7	19	40	<0.005		
A0051341		1.80	1.4	<5	97	183	1.765		
A0051342		1.82	<0.5	<5	2	7	<0.005		
A0051343		1.57	<0.5	<5	7	48	<0.005		
A0051344		1.53	0.6	<5	22	232	0.849		
A0051345		1.35	0.5	<5	105	60	<0.005		
A0051346		1.38	<0.5	<5	40	15	<0.005		
A0051347		2.64	1.0	<5	13	70	0.179		
A0051348		2.45	<0.5	<5	34	48	0.023		
A0051349		2.98	<0.5	<5	2	125	<0.005		
A0051350		0.11	1.0	5840	52	70	6.25	6.94	
A0051351		0.92	<0.5	9	33	82	0.010		
A0051352		2.13	<0.5	<5	2	6	<0.005		
A0051353		1.08	<0.5	<5	14	24	<0.005		



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CERTIFICATE OF ANALYSIS TB20169287

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	Au-GRA22 Au Check ppm
A0051354		1.75	<0.5	<5	5	4	<0.005		
A0051355		1.18	<0.5	<5	1	53	<0.005		
A0051356		1.47	<0.5	<5	1	2	0.006		
A0051357		0.90	<0.5	<5	8	52	1.625		
A0051358		1.26	<0.5	<5	1	6	<0.005		
A0051359		1.14	<0.5	11	38	19	0.473		
A0051360		0.11	<0.5	7	20	41	<0.005		
A0051361		1.43	<0.5	7	16	16	0.187		
A0051362		1.55	<0.5	<5	12	23	0.005		
A0051363		1.99	<0.5	<5	7	50	0.027		
A0051364		1.96	1.7	<5	12	106	2.27		
A0051365		1.15	<0.5	<5	12	6	0.007		
A0051366		1.25	<0.5	<5	8	77	0.076		
A0051367		0.62	<0.5	<5	1	40	0.032		



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CERTIFICATE OF ANALYSIS TB20169287

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61

Appendix F: Hand Stripping Maps

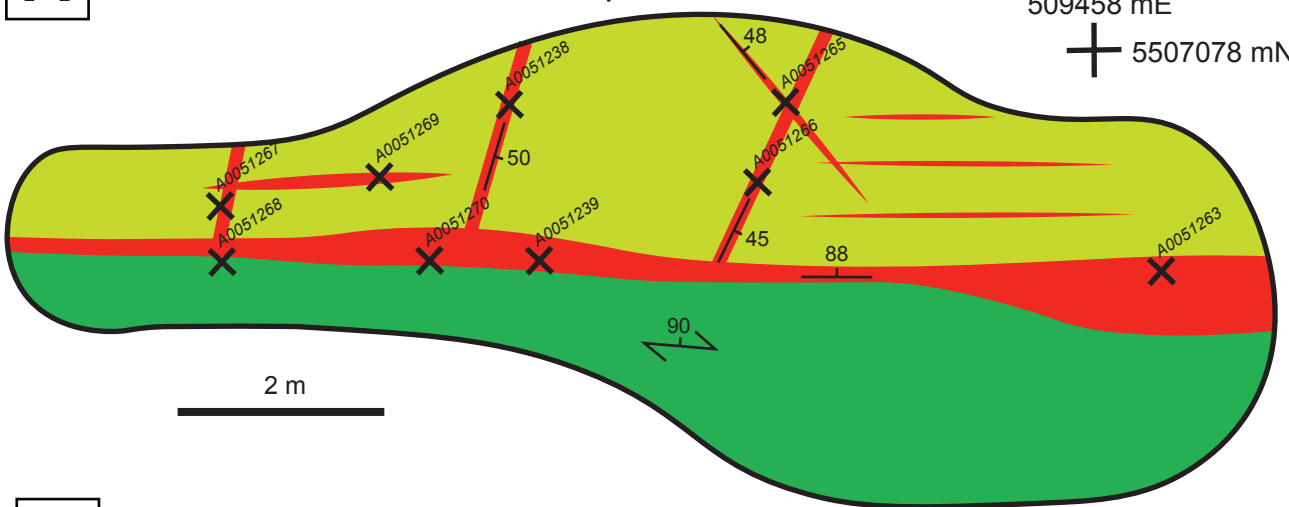
Eastern Extension of Main Redeemer Quartz Vein

N



A

Redeemer E Ext. West outcrop

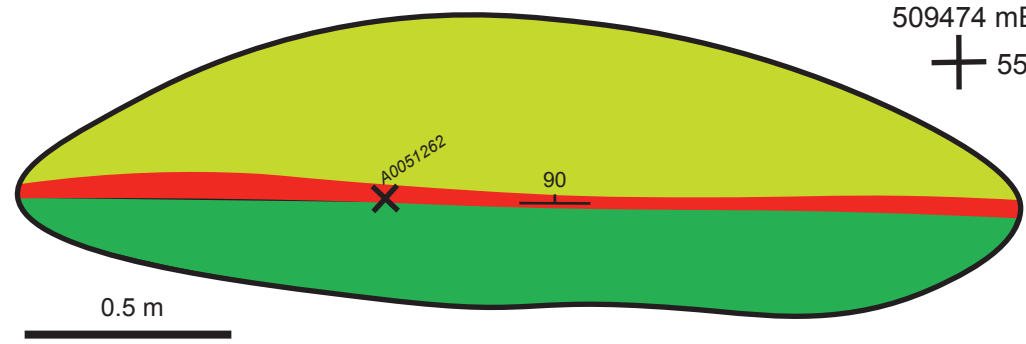


Legend

- Mafic volcanic
 - Intermediate volcanic
 - Quartz vein
- Structural symbols*
- Foliation
 - Vein orientation
- Other symbols*
- Sample location

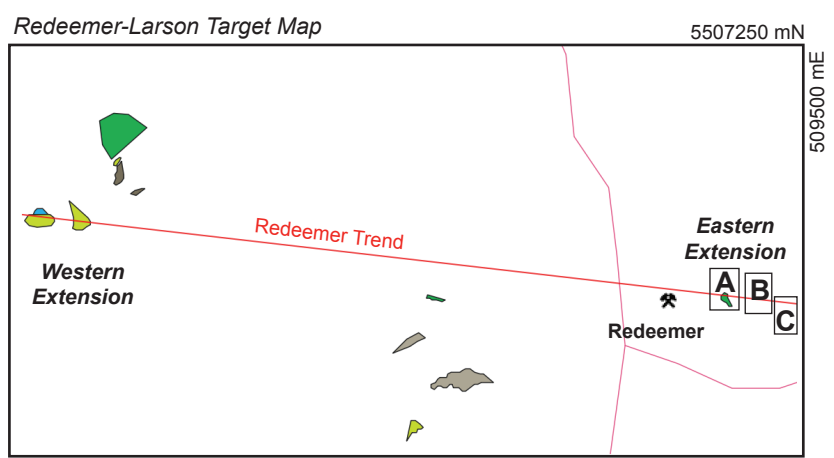
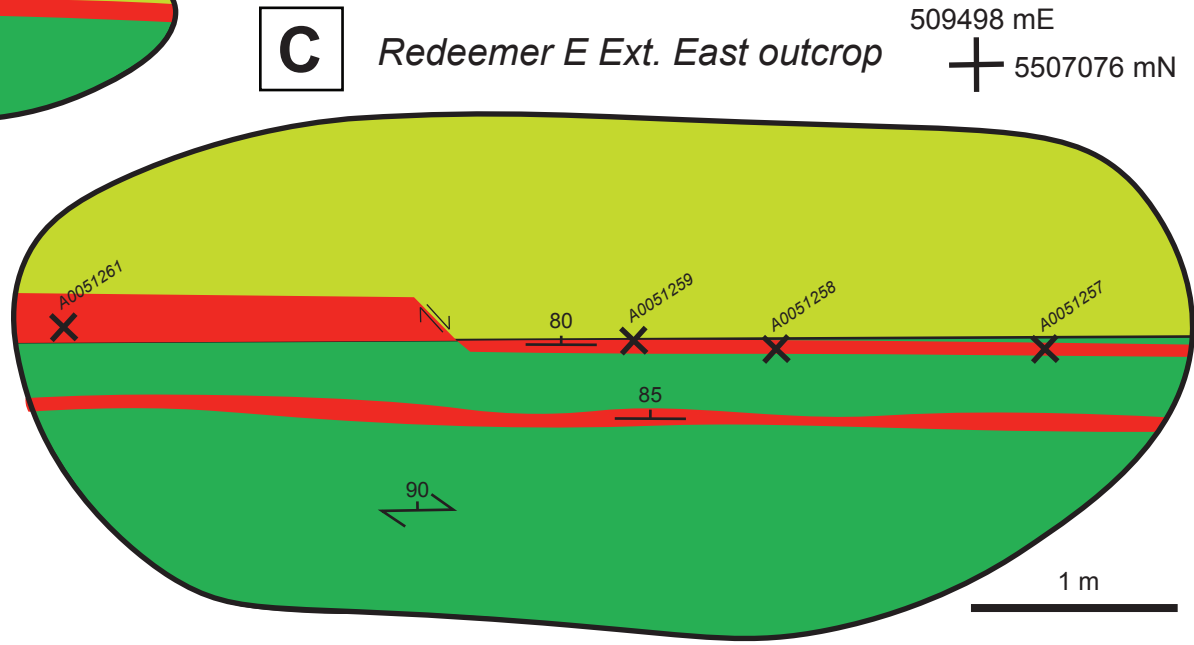
B

Redeemer E Ext. Middle outcrop



C

Redeemer E Ext. East outcrop



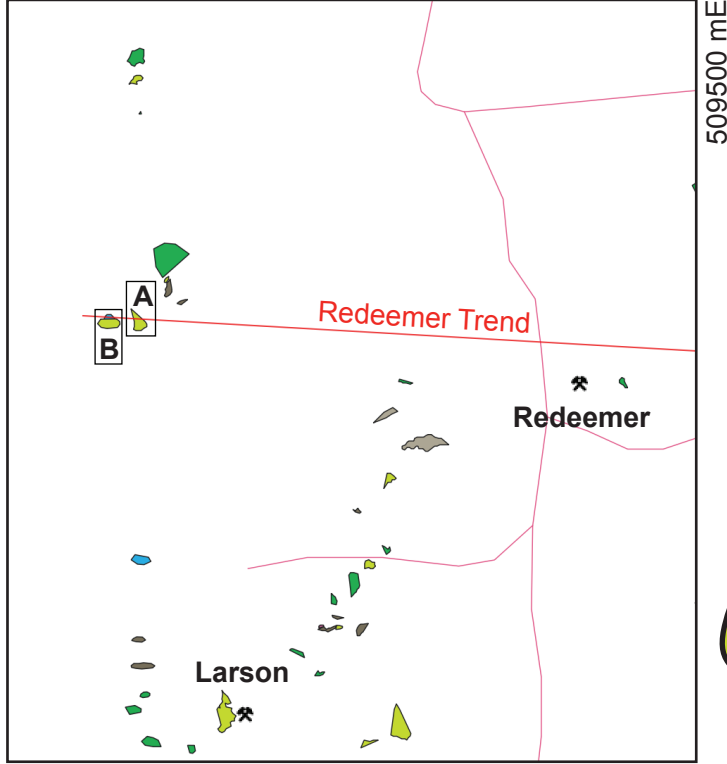
Western Extension of Main Redeemer Quartz Vein

N



Redeemer-Larson Target Map

5507450 mN



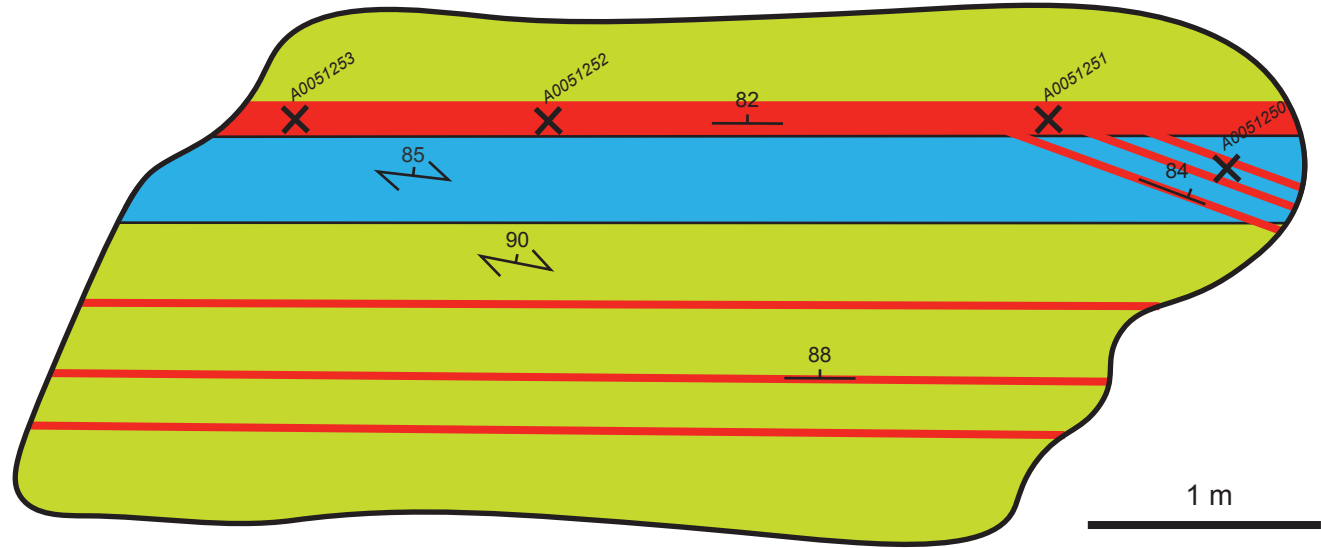
509500 mE

A

Redeemer W Ext. East outcrop

509039 mE

5507124 mN



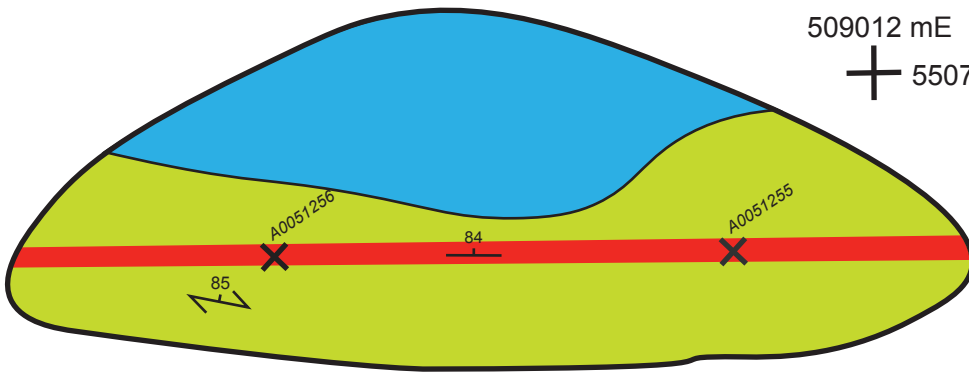
1 m

B

Redeemer W Ext. West outcrop




509012 mE

5507128 mN



1 m


Legend

-  Mafic intrusive
-  Intermediate volcanic
-  Quartz vein

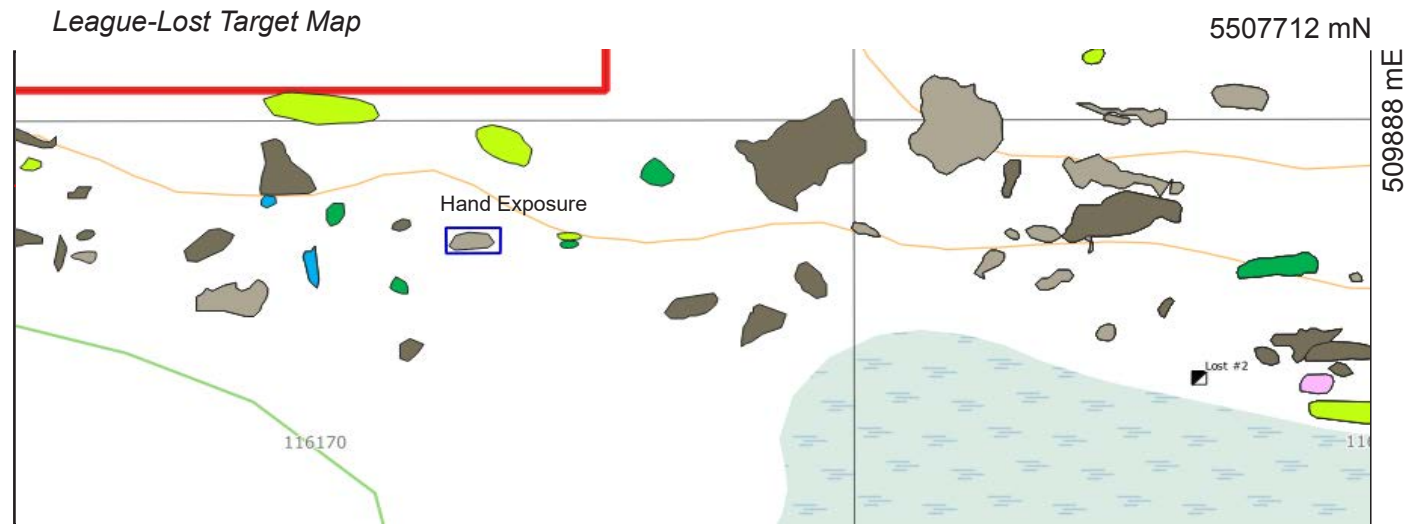
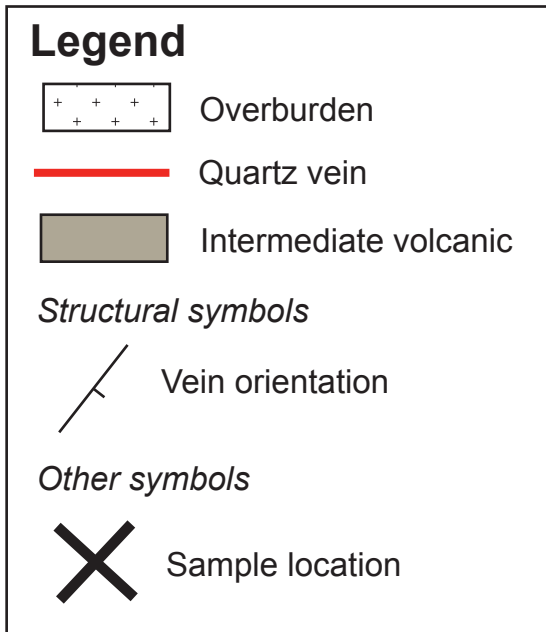
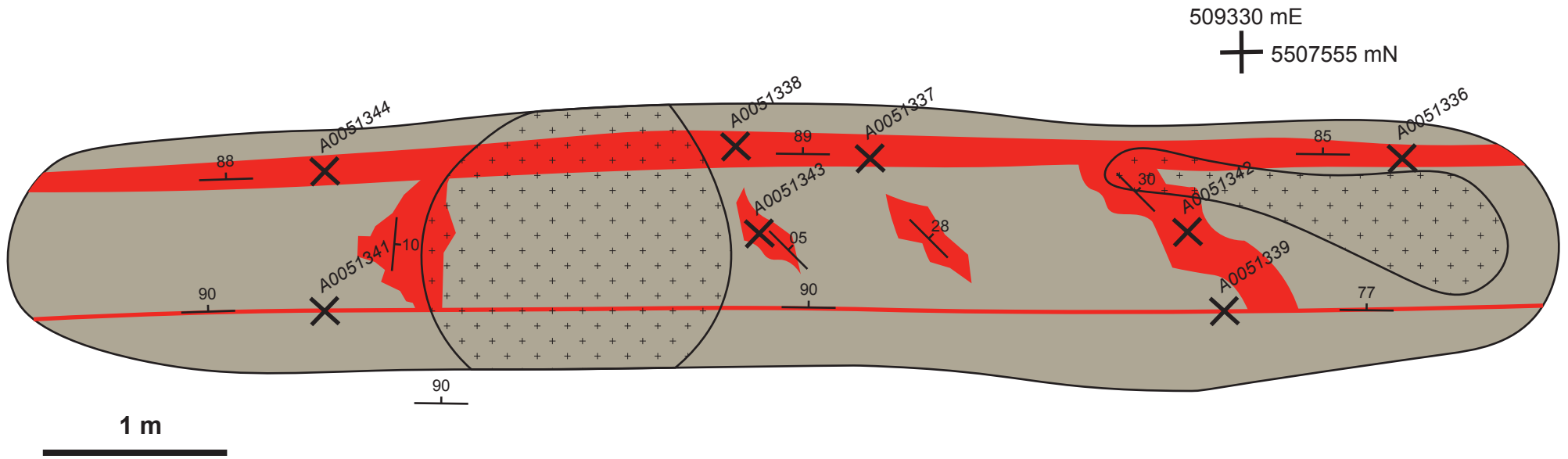
Structural symbols

-  Foliation
-  Vein orientation

Other symbols

-  Sample location

Far West Lost Shaft Stripping Map



Appendix G: Geological Drill Logs

Project: Van Horne

Hole Number: VH20-001

Drill Hole

Prospect: VH-GLATZ
Year: 2020
Hole Size: NQ
Orient: ACT III
Hole Status: COMPLETE

Operator: KGC EXPLORATION
Geologist: PERCY CLARK
Casing Depth: 6
EOH: 537
Logged Depth: 537

Drilling

Start Date: Feb-16-2020
End Date: Feb-21-2020
Drill Company: Major Drilling

Coordinates

Survey Method: HANDHELD GPS
Grid: NAD83 / UTM zone 15N
Easting: 505,357
Northing: 5,508,379
Elevation: 383

Comments:

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	2.7	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-001

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
2.7	61.15	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	GREY	6.0	7.0	1	0.0025	2.5	0.25	60	169	B0045002
Predominately fine grained Intermediate volcanic unit, grain size increases in areas displaying lapilli (0.5-1cm size likely bolstered by alteration halo) and decreases to aphanitic small intervals. moderate strength foliation throughout increasing to strong in some moderately deformed areas and decreasing to weak in aphanitic areas. moderate abundance of Qtz-carb stringers (0.2-0.75cm width) - multiple sets-throughout with similar orientations. Alteration consistent throughout unit moderate chl-perv, weak sil-perv, weak ser along foliation. Small (5cm) pockets inside an areas of increased chl alt displaying porous textures likely due to proximity to surface. Within first 30m of hole, oxidisation can be seen in localised areas. Often occurring around fractures, veins and within foliation. Ranging in intensity from subtle (foliation) to intense (veins and fractures). Unit displays diss. py mineralization (0.5%) increasing in some localized areas. Weak deformation zone from 16.27-21.05, 15cm thick Qtz-carb-chl-py vein set made up of 70%vein and 30% wallrock, 1% bleb py (10.24-10.44 m). 15cm thick Qtz-carb-chl-py vein set made up of 70% wallrock and 30% veins 1% py (43.37-43.54m).														
						7.0	8.0	1	0.005	6	0.25	69	131	B0045003
						8.0	8.9	0.9	0.0025	7	0.25	45	140	B0045004
						8.9	10.15	1.25	0.0025	5	0.25	43	95	B0045005
						10.15	11.0	0.85	0.0025	2.5	0.25	37	121	B0045006
						11.0	12.0	1	0.0025	2.5	0.25	25	118	B0045007
						12.0	13.0	1	0.0025	2.5	0.25	21	127	B0045008
						13.0	14.0	1	0.0025	2.5	0.25	27	165	B0045009
						14.0	15.0	1	0.0025	2.5	0.25	31	173	B0045010
						15.0	16.0	1	0.023	6	0.25	80	347	B0045011
						16.0	17.0	1	0.0025	5	0.25	35	136	B0045012
						17.0	18.0	1	0.0025	5	0.25	36	136	B0045013
						18.0	19.0	1	0.0025	2.5	0.25	30	123	B0045014
						19.0	20.0	1	0.0025	6	0.25	33	118	B0045015
						20.0	21.0	1	0.0025	2.5	0.25	39	122	B0045017
						21.0	22.0	1	0.022	5	0.25	146	113	B0045018
						22.0	23.0	1	0.0025	2.5	0.25	46	109	B0045019
						23.0	24.0	1	0.0025	2.5	0.25	33	115	B0045020
						24.0	25.0	1	0.0025	2.5	0.25	22	110	B0045021
						31.0	32.0	1	0.0025	2.5	0.25	33	155	B0045023
						32.0	33.0	1	0.0025	2.5	0.25	42	127	B0045024
						33.0	34.0	1	0.0025	2.5	0.25	60	111	B0045025
						34.0	34.95	0.95	0.0025	5	0.25	46	122	B0045026
						34.95	36.0	1.05	0.0025	2.5	0.25	41	121	B0045027
						36.0	37.0	1	0.03	6	0.25	140	104	B0045028
						37.0	38.0	1	0.0025	12	0.25	54	122	B0045030
						38.0	39.0	1	0.0025	2.5	0.25	21	114	B0045031
						39.0	40.0	1	0.0025	2.5	0.25	25	108	B0045032
						40.0	41.0	1	0.071	2.5	0.25	18	115	B0045033
						41.0	42.05	1.05	0.0025	2.5	0.25	51	107	B0045034
						42.05	43.0	0.95	0.329	5	0.25	33	144	B0045035

Project: Van Horne

Hole Number: VH20-001

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						43.0	44.0	1	0.013	2.5	0.25	21	111	B0045036
						44.0	45.0	1	0.321	5	0.25	25	119	B0045037
						45.0	46.0	1	0.0025	2.5	0.25	48	111	B0045038
						46.0	47.0	1	0.027	2.5	0.25	37	120	B0045039
						59.0	60.0	1	0.0025	2.5	0.25	13	121	B0045040
						60.0	61.0	1	0.0025	2.5	0.25	6	118	B0045041
						61.0	62.0	1	0.012	2.5	0.25	41	78	B0045043
61.15	63.7	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	GREY	61.0	62.0	1	0.012	2.5	0.25	41	78	B0045043
Deformation zone, grey intermediate volcanics, very fine grained, pervasive foliation increasing with level of deformation, deformation intensity grading from weak on margins of zone to intense from 63.05-63.32 before grading back to weak at lower margin. Deformed qtz vein sets throughout unit, most notably; 3 cm thick qtz-carb-chl vein with 1% py (61.25-61.29), 8 cm thick qtz-chl-carb-py vein set made up of 60% vein and 40% altered wallrock, 1% py, (62-62.10- blowout of vein extends irregularly to 62.27). 13 cm thick qtz-ser-chl-carb-py-asy vein with 3% py and 0.5% aspy. veins upper margin has strong potassic alteration halo extending into deformed wallrock. Pervasive moderate-strong sil alteration.						62.0	63.0	1	0.0025	2.5	0.25	31	104	B0045044
						63.0	64.0	1	0.207	2.5	0.25	38	64	B0045045
This unit could possibly be northern east-west structured that yielded anomalous samples in 2018 and 2019.														
61.45 - 61.81 : Quartz Vein, qtz-chl vein set made up of 4 veins averaging 1cm in width														

Project: Van Horne

Hole Number: VH20-001

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
63.7	121.34	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	MEDIUM	DARK GREY	63.0	64.0	1	0.207	2.5	0.25	38	64	B0045045
Medium grained, intermediate volcanic, weakly foliated. Unit displaying lapilli (0.5-1cm size likely bolstered by alteration halo), occasional qtz-carb veinlets. Lower half of unit (85-121.34) displays diss py mineralization increasing in localized areas to 2%. 96.5-99.5 shows increased abundance of qtz veins including; 9cm qtz-carb-chl-py vein from 97.7-97.79 2% py altered margins, 23 cm qtz-chl vein set made up of 40% vein and 60% wallrock some of which is deformed 99.14-99.39. This 96.5-99.5 zone shows an increase in sil alteration likely due to the veins. Sil alteration also increases with proximity to lower contact. Lower contact gradational						64.0	65.0	1	0.0025	2.5	0.25	33	102	B0045046
						65.0	66.0	1	0.0025	2.5	0.25	40	106	B0045047
						94.5	95.0	0.5	0.0025	2.5	0.25	28	77	B0045048
						95.0	96.0	1	0.0025	2.5	0.25	40	81	B0045049
						96.0	97.0	1	0.0025	2.5	0.25	32	82	B0045050
						97.0	98.0	1	0.029	2.5	0.25	34	95	B0045051
						98.0	99.0	1	0.0025	2.5	0.25	39	88	B0045052
						99.0	100.0	1	0.006	2.5	0.25	44	88	B0045053
						100.0	101.0	1	0.0025	2.5	0.25	35	106	B0045054
						101.0	101.5	0.5	0.0025	2.5	0.25	39	113	B0045056
						109.0	110.0	1	0.042	5	0.25	39	94	B0045057
						110.0	110.8	0.8	0.005	2.5	0.25	37	108	B0045058
						110.8	111.4	0.6	1.015	2.5	0.25	47	93	B0045059
						111.4	112.0	0.6	0.007	2.5	0.25	39	101	B0045060
						112.0	113.0	1	0.0025	2.5	0.25	54	95	B0045061
						113.0	114.0	1	0.005	2.5	0.25	50	100	B0045062
						114.0	115.0	1	0.0025	2.5	0.25	41	102	B0045063
						115.0	116.0	1	0.0025	2.5	0.25	46	100	B0045064
						116.0	117.0	1	0.006	2.5	0.25	53	103	B0045065
						117.0	118.0	1	0.0025	2.5	0.25	45	107	B0045066
						118.0	119.0	1	0.151	2.5	0.25	41	110	B0045067
						119.0	120.0	1	0.0025	2.5	0.25	44	128	B0045069
						120.0	121.34	1.34	0.0025	2.5	0.25	59	134	B0045070
121.34	124	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	DARK GREY	121.34	122.0	0.66	0.027	2.5	0.25	72	174	B0045071
Fine grained Intermediate Volcaniclastic. Abundant clasts of varying clast size and composition (0.5-4cm), pervasive weak foliation increasing to strong in areas where clast abundance is reduced. Rare qtz vein py mineralization observed along margins of vein. Mineralization in unit consists of 1-2% py along clast margins-along foliation. Lower and upper contacts gradational. Alteration consistent throughout unit- nothing notable						122.0	123.0	1	0.0025	2.5	0.5	77	131	B0045072
						123.0	124.0	1	0.0025	2.5	0.25	68	125	B0045073

Project: Van Horne

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
124	130.31	IV, INTERMEDIATE VOLCANIC	BLEACHED	FINE	DARK GREY	124.0	125.0	1	0.0025	2.5	0.25	51	135	B0045074
Intermediate Volcanic unit with varying grain size. Unit has aphanitic-very fine sections occurring with intense silica bleaching - grain size increases to medium with the presence of 0.5-1cm lapilli (size likely bolstered due to alteration). Unit displays multiple altered-deformed Qtz veins highest concentration within the silica altered portions of unit. Mineralization in unit averages around 1% with the most obvious occurrences observed in silica bleached areas. One of these aforementioned altered Qtz veins occurs on lower contact of unit. Notable structures: 11cm Qtz-carb-ser-py vein 1% py, moderately deformed (125.9-126.03). Irregular 7cm Qtz-plag-carb vein occurring on contact of medium and fine grained areas (127.11-127.17m). 6cm Qtz-plag-py-tor vein with irregular blowouts on upper and lower contacts (129.36-129.52m). 3cm Qtz-plag-chl-tor-py vein with irregular blowouts and stringers proximal. 4cm Qtz-py-carb-tor vein with sharp contacts along contacts of litho units.						125.0	126.1	1.1	0.0025	2.5	0.25	39	140	B0045075
						126.1	127.11	1.01	0.0025	2.5	0.25	3	87	B0045076
						127.11	128.04	0.93	0.097	2.5	0.25	5	77	B0045077
						128.04	129.0	0.96	0.16	2.5	0.25	4	86	B0045078
						129.0	130.0	1	0.831	5	0.25	8	68	B0045080
						130.0	131.0	1	1.085	5	0.25	41	96	B0045081

Project: Van Horne

Hole Number: VH20-001

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
130.31	155	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY	130.0	131.0	1	1.085	5	0.25	41	96	B0045081
<p>Similar unit to IVCL seen at 121.34-124. Fine grained Intermediate Volcaniclastic. Abundant clasts of varying clast size and composition (0.5-4cm), pervasive weak foliation increasing to strong in areas where clast abundance is reduced. Mineralization in unit consists of 1-3% py along clast margins-along foliation. Py min also occurs in blebs in localised areas - looks to possibly be some form of py replacement. A large py bleb/replacement occurring at 151.95. Alteration consistent with occasional areas of increased pervasive silica alteration. Qtz vein abundance in unit is moderate to low, Two potential sets of qtz veins observed. the first being sharp- with tor and 1-2% py along margins thickness from 2-4cm alpha angles from 45-50 degrees. Most notable occurrences: (142.32-142.36, 146.67-146.72, 148.19-148.23) , The other potential set being more altered, deformed and reliced with a higher percentage of carb, chl, ser, thickness and orientation of these veins is inconsistent but mineralogy is more or less consistent. Most notable occurrences (134.9-134.94, 135.34-135.42, 140.39-140.41, 143.90-143.95, 152.86-152.94). Lower and upper contacts are sharp.</p>														
<p>134.9 - 135.42 : Quartz Vein, irregular qtz-carb-plag vein set made up of two veins averaging 4cm thick</p>														
						131.0	132.0	1	0.005	2.5	0.25	72	114	B0045082
						132.0	133.0	1	0.0025	2.5	0.25	93	117	B0045084
						133.0	134.0	1	0.112	6	0.25	71	127	B0045085
						134.0	135.0	1	0.0025	2.5	0.25	73	106	B0045086
						135.0	136.0	1	0.0025	5	0.25	71	111	B0045087
						136.0	137.0	1	0.0025	5	0.25	50	127	B0045088
						137.0	138.0	1	0.0025	9	0.25	49	81	B0045089
						138.0	139.0	1	0.006	17	0.25	51	113	B0045090
						139.0	140.0	1	0.0025	2.5	0.25	76	84	B0045091
						140.0	141.0	1	0.0025	2.5	0.25	71	81	B0045092
						141.0	142.0	1	0.0025	2.5	0.25	78	114	B0045093
						142.0	143.0	1	0.4	8	0.25	67	98	B0045095
						143.0	144.0	1	0.024	2.5	0.25	71	126	B0045096
						144.0	145.0	1	0.006	6	0.25	59	114	B0045097
						145.0	146.0	1	0.281	8	0.25	46	85	B0045098
						146.0	147.0	1	0.069	7	0.25	55	99	B0045099
						147.0	148.0	1	0.013	6	0.25	49	86	B0045100
						148.0	149.0	1	0.805	5	0.25	47	79	B0045101
						149.0	150.0	1	0.009	2.5	0.25	55	92	B0045102
						150.0	151.0	1	0.0025	2.5	0.25	46	106	B0045103
						151.0	152.0	1	0.006	6	0.25	46	104	B0045104
						152.0	153.0	1	0.214	14	0.25	50	130	B0045105
						153.0	154.0	1	0.087	7	0.25	45	82	B0045106
						154.0	155.0	1	0.012	6	0.25	37	79	B0045108

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
155	167.77	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	155.0	156.24	1.24	0.293	5	0.25	13	36	B0045109
Quartz Feldspar Porph. with feldspar grains averaging 0.5cm in width. colour varies from dark grey to pink. Brecciated zone from 156.24 to 157.02, this zone displays 4-5% py mineralization along fractures with qtz-chl infill also occasional spots of fuchsite. Another possible breccia zone occurs from 158.35-158.45 m. Intermediate volcaniclastic inclusion from 163-163.95 contacts of the inclusion are irregular. Py mineralization can be seen throughout the unit averaging 1% increasing to 2% in localised areas and 5% in "brecciated" areas. Lower and upper contacts are somewhat gradational and tough to determine due to alteration of wallrock by qfp. Quartz veins of varying widths and orientations can be seen throughout the unit. Mineralogy of these veins is often qtz-plag-carb occasionally displaying tor and lower % of py.						156.24	157.02	0.78	0.886	9	0.25	38	76	B0045110
						157.02	158.0	0.98	0.672	5	0.25	13	34	B0045111
						158.0	159.0	1	0.127	2.5	0.25	9	41	B0045112
						159.0	160.0	1	0.177	5	0.25	26	32	B0045113
160.61 - 161.61 : Quartz Vein, qtz-carb vein set made up of 5 - 1cm qtz veins with similar orientations and widths. 1% py						160.0	161.0	1	0.462	2.5	0.25	8	32	B0045114
						161.0	162.0	1	0.558	5	0.25	11	32	B0045115
162.36 - 163.0 : Quartz Vein, Irregular quartz vein set, made up of 8 quartz veins that are cutting.						162.0	163.0	1	0.585	8	0.25	18	38	B0045116
						163.0	164.0	1	0.926	9	0.25	72	97	B0045117
						164.0	165.0	1	0.083	5	0.25	13	46	B0045118
						165.0	166.0	1	0.103	2.5	0.25	7	32	B0045119
						166.0	167.0	1	0.14	2.5	0.25	9	32	B0045121
						167.0	167.77	0.77	0.368	2.5	0.25	10	31	B0045122
167.77	172.27	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	GREY	167.77	169.0	1.23	0.012	14	0.5	55	671	B0045123
Grey medium grained QFP displaying weak to moderate deformation increasing with proximity to IVCL below. Texture and deformation of the top portion of unit (167.77-170.43) is very similar to QFP above, the lower portion (170.43-172.27) of this unit is more deformed and altered-even lacking the porph texture, phenos are still present (this could possibly be a different lithology) Lack of potassic alteration throughout unit would explain the grey colour. Mineralization increases from previous QFP 2% diss. Lower contact occurs along qtz-plag-py-tor vein 4cm wide.						169.0	170.0	1	0.009	9	0.5	62	307	B0045124
						170.0	171.0	1	0.073	36	0.25	43	816	B0045125
						171.0	172.27	1.27	0.117	40	0.25	50	798	B0045126
172.27	180	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	GREY	172.27	173.1	0.83	0.251	105	0.8	81	8,500	B0045127
fine grained grey to light grey intermediate (could be mafic) volcanic, 0.5cm lapilli abundant, rare 1cm lapilli, foliation is very weak to non-existent in most areas. These lapilli could possibly be amigdals making this a basalt... Unit displays areas of 1% dis py with localized areas displaying swaths of 5% py along what look to be altered vein sets. these areas are 7-8 cm wide(172.94-173.05, 179.12-179.27). lower contact is undulous. alteration is consistent throughout						173.1	174.0	0.9	0.01	8	0.25	61	260	B0045128
						174.0	175.0	1	0.007	16	0.5	54	156	B0045129
						175.0	176.0	1	0.008	11	0.6	55	145	B0045130
						176.0	177.0	1	0.021	12	0.6	54	137	B0045131
						177.0	178.0	1	0.006	11	0.25	53	162	B0045132
						178.0	179.0	1	0.022	12	0.5	73	579	B0045134
						179.0	180.0	1	0.443	91	2.1	331		B0045135

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
180	187.27	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	GREEN-GREY	180.0	181.0	1	0.038	21	0.25	13	406	B0045136
medium grained grey-green intermediate volcaniclastic, unit displays moderate strength foliation. clast size vary in composition, strain intensity and size (1-7cm). Mineralization in unit consists of 1-2% py disseminated, along foliation and occurring along margins of qtz veins. Alteration in the unit is consistent through ser alteration increases around altered qtz vein proximal to the lower contact of the unit. Qtz veins in this unit seem to all be related with the exclusion of 2, displaying similar mineralogy (qtz-plag-tor-py) and similar orientation (roughly 50 degrees alpha). These veins vary in size from 1-4cm. (184.14-184.17, 185.03-185.08, 185.30-185.35, 185.40-185.47, 185.62-185.64). The two other veins likely not related to the past mentioned ones are more deformed and slightly irregular, these veins still display py mineralization, mineralogy qtz-plag-chl-ser-carb-py. (181.05-181.12, 187.09-187.27m)														
184.14 - 185.64 : Quartz Vein, Quartz - Carb - tor - py vein set made up of 5, 1-4 cm quartz veins. With 1-2 % py across the margins.														
187.27	229	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY	187.27	188.0	0.73	0.125	21	0.25	22	179	B0045144
medium grained, pockets of silica bleaching throughout unit. colour varies with alteration. grain size is medium and foliation is weak throughout unit. Moderate abundance of <1cm qtz veins throughout unit, notable veins occurring at 190.08-190.19 which looks to be related to the vein set observed in IVCL qtz-plag-tor-py and similar orientation (roughly 50 degrees alpha). A large irregular vein zone occurring from 193.18 to 194.31 qtz-plag-chl-carb with 1-3% py very irregular with offshoots and blowouts. Area is made up of 60% wallrock and 40% vein. this structure could possibly be a healed fault zone due to fragments. Unit does display what look to be small clasts but is believed to be volcanic. Clasts might just appear to be due to alteration.														
193.18 - 194.31 : Quartz Vein, Irregular quartz - chl - carb - py vein zone. Possibly healed fault material due to fragments present. Mineralization occurring along margin of vein as well as within ratfts in vein..														
						188.0	189.0	1	0.02	9	0.5	36	261	B0045145
						189.0	190.0	1	0.042	11	0.25	44	165	B0045147
						190.0	191.0	1	0.097	6	0.25	29	136	B0045148
						191.0	192.0	1	1.31	7	0.25	36	149	B0045149
						192.0	193.0	1	0.704	15	0.25	24	128	B0045150
						193.0	193.6	0.6	5.44	23	1.1	28	716	B0045151
						193.6	194.31	0.71	5.81	100	2.1	368	4,070	B0045152
						194.31	195.0	0.69	0.056	6	0.25	18	237	B0045153
						195.0	196.0	1	0.017	2.5	0.25	47	226	B0045154
						223.0	224.0	1	0.294	2.5	0.25	41	132	B0045155
						224.0	225.0	1	0.01	2.5	0.25	32	130	B0045156
						225.0	226.0	1	0.332	6	0.25	48	128	B0045158
						226.0	227.0	1	0.02	2.5	0.25	40	127	B0045159
						227.0	228.0	1	0.012	2.5	0.25	51	133	B0045160
						228.0	228.97	0.97	0.026	6	0.25	38	148	B0045161
						228.97	229.97	1	0.473	2.5	0.25	25	51	B0045162

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
229	251.45	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC FINE		RED-BROWN	228.97	229.97	1	0.473	2.5	0.25	25	51	B0045162
Quartz Feldspar Porph. Colour is inconsistent, 213-243m is grey-dark red likely lacking potassic alteration, the rest of unit is typical qfp pink-red. abundant fractures and occasional 0.25cm qtz-carb veinlets some containing vuggs. Upper contact has 7cm qtz-carb-chl-py vein (229-219.13m) occurring along contact 2 % py in wisps and bels, lower end of vein has irregular blowout extending into QFP. Vein occurring on lower contact, Irregular qtz-carb-						229.97	231.0	1.03	0.008	2.5	0.25	7	34	B0045163
						231.0	232.0	1	0.012	2.5	0.25	8	18	B0045164
						232.0	233.0	1	0.008	2.5	0.25	7	25	B0045165
						244.0	245.0	1	0.02	2.5	0.25	5	18	B0045166
						245.0	246.0	1	0.02	2.5	0.25	6	22	B0045167
						246.0	247.0	1	0.013	2.5	0.25	6	22	B0045168
						247.0	248.0	1	0.041	5	0.25	5	18	B0045169
						248.0	249.0	1	0.012	2.5	0.25	7	16	B0045170
						249.0	250.0	1	0.01	2.5	0.25	15	28	B0045171
						250.0	251.0	1	0.0025	2.5	0.25	10	16	B0045173
						251.0	251.52	0.52	0.145	2.5	0.25	6	23	B0045174

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
251.45	270.55	IV, INTERMEDIATE VOLCANIC	BLEACHED	VERY FINE	DARK GREY	251.0	251.52	0.52	0.145	2.5	0.25	6	23	B0045174
<p>Intermediate Volcanic unit with varying grain size and texture. Ranging from aphanitic to fine grained. plag-quartz phenos can be seen throughout unit in varying abundance. very altered-very strong silica alteration throughout, QFP from 261.82-262.16 and another possible one at end of unit 269.57-270.55m. This end of unit qfp lack potassic alteration but hosts an abundance 60% of plag phenos.</p> <p>This volcanic unit is caught between two qfps and thus is extremely altered, unit hosts multiple qtz veins of varying orientations and compositions. In more silica altered areas 258-270.55, veins appear more sharp and defined. Veins in this area range from 1-3 cm and occasionally have another vein cross cutting them qtz-carb-plag-py-tor mineralogy for these veins is common. Py mineralization ranges from 0.5-5% - occurring in blebs when percentage is above 3 potassic and silica bleaching of wallrock proximal to veins can be seen in some of the veins. 251.45-258, where silica alteration is less intense but more sericite alteration can be seen (moderate pervasive) veins appear slightly more irregular and ductile. veins in this area have a qtz-carb-chl composition occasionally containing ser, tor low % of py. most notable of these veins in a 22 cm qtz-carb-chl-ser deformed vein set made up of 70% vein and 30% altered wallrock.</p>														
						251.52	252.0	0.48	0.013	2.5	0.25	8	144	B0045175
						252.0	253.0	1	0.006	2.5	0.25	6	116	B0045176
						253.0	254.0	1	0.395	5	0.5	7	106	B0045177
						254.0	255.0	1	0.039	2.5	0.25	9	109	B0045178
						255.0	256.0	1	0.019	2.5	0.25	30	101	B0045179
						256.0	257.0	1	0.0025	2.5	0.25	30	99	B0045180
						257.0	258.0	1	0.0025	2.5	0.25	26	92	B0045181
						258.0	259.0	1	0.046	2.5	0.25	73	93	B0045182
						259.0	260.0	1	0.01	6	0.25	76	93	B0045183
						260.0	261.0	1	0.005	5	0.25	34	95	B0045184
						261.0	262.0	1	0.104	2.5	0.25	40	97	B0045186
						262.0	263.0	1	0.414	11	0.25	53	96	B0045187
						263.0	264.0	1	0.108	2.5	0.25	41	109	B0045188
						264.0	265.0	1	0.83	2.5	0.25	44	85	B0045189
						265.0	266.0	1	0.948	2.5	0.25	37	95	B0045190
						266.0	267.0	1	0.081	2.5	0.25	34	105	B0045191
						267.0	268.0	1	0.149	6	0.25	41	92	B0045192
						268.0	269.0	1	0.02	2.5	0.25	25	106	B0045193
						269.0	270.0	1	0.552	11	0.25	21	95	B0045194
						270.0	270.55	0.55	0.0025	2.5	0.25	5	108	B0045195

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
270.55	280.45	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	FINE	RED-BROWN	270.55	271.0	0.45	0.021	5	0.25	10	26	B0045196
QFP, abundant fractures, light pink to light grey in colour, low % qtz veins mostly under 1cm most notable one at 274.72-274.74m 2.5cm qtz-carb-py 3% py along margins. sharp upper and lower contacts.						271.0	272.0	1	0.049	5	0.25	10	24	B0045197
						272.0	273.0	1	0.18	7	0.25	8	25	B0045199
						273.0	274.0	1	0.023	2.5	0.25	7	24	B0045200
						274.0	275.0	1	0.384	2.5	0.25	2	30	B0045202
						275.0	276.0	1	0.043	2.5	0.25	9	29	B0045203
						276.0	277.0	1	0.14	2.5	0.25	7	29	B0045204
						277.0	278.0	1	0.123	2.5	0.25	6	26	B0045205
						278.0	279.0	1	0.149	2.5	0.25	4	27	B0045206
						279.0	280.0	1	0.426	6	0.25	11	30	B0045207
						280.0	280.45	0.45	0.058	2.5	0.25	15	23	B0045208
280.45	293.3	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	GREY	280.45	281.0	0.55	0.06	7	0.25	48	100	B0045209
IVol unit, appears to be an ash tuff with small stringer veins throughout the unit. Weak fracture-fill chlorite, weak pervasive sericite and weak patchy carbonate alteration present throughout the unit. 0.5 % disseminated pyrite present within the unit, stringer veins show minor patchy carbonate and 0.1% blebby pyrite.						289.0	290.0	1	0.0025	5	0.25	6	117	B0045210
						290.0	291.0	1	0.0025	2.5	0.25	4	116	B0045212
						291.0	292.0	1	0.0025	5	0.25	3	114	B0045213
						292.0	292.82	0.82	0.0025	2.5	0.25	14	124	B0045214
						292.82	293.3	0.48	0.0025	2.5	0.25	8	123	B0045215

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
293.3	309.5	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	293.3	294.0	0.7	0.0025	2.5	0.25	4	150	B0045216
IVCL unit with small subrounded - rounded clasts, displays breccia texture with fracture-fill chlorite throughout unit. Unit shows many quartz veins and vein sets, showing 0.5 % pyrite with a vein at 299.2 - 299.21 showing 5% fracture-fill pyrite and a large vein set at 300.65 - 301.74 showing 0.5 % blebby chalcopyrite, 2% blebby pyrite and 0.5 % disseminated pyrite. The unit shows weak fracture-fill chlorite, moderate pervasive sericite and weak patchy silica.														
294.56 - 294.9 : Quartz Vein, Quartz vein set, 70% vein, 30% wall rock. 0.5 % disseminated pyrite, 0.5 % blebby pyrite. Qtz - Carb - Fracture-fill chlor.														
300.65 - 301.74 : Quartz Vein, Quartz Vein set with 10 veins, 2 of which are cross cutting. The set is irregular, with 30% wall rock and 70% vein. Fracture-fill carb - fracture-fill chlor - minor fracture-fill tourmaline. 2% blebby pyrite, 0.5% blebby chalcopyrite, 0.5% disseminated pyrite.														
						294.0	294.56	0.56	0.0025	2.5	0.25	3	143	B0045217
						294.56	295.0	0.44	0.129	2.5	0.25	6	105	B0045218
						295.0	296.0	1	0.024	6	0.25	4	124	B0045219
						296.0	297.0	1	0.095	6	0.25	7	117	B0045220
						297.0	298.0	1	0.0025	2.5	0.25	6	124	B0045221
						298.0	299.0	1	0.025	6	0.25	8	140	B0045222
						299.0	300.0	1	3.91	15	0.8	13	112	B0045223
						300.0	300.64	0.64	5.27	17	1.9	3	111	B0045225
						300.64	301.8	1.16	7.94	14	2.8	7	40	B0045226
						301.8	303.0	1.2	0.304	9	0.25	6	100	B0045227
						303.0	304.0	1	0.035	6	0.25	4	92	B0045228
						304.0	305.0	1	0.021	2.5	0.25	4	114	B0045229
						305.0	306.0	1	0.009	9	0.25	5	150	B0045230
						306.0	307.0	1	0.053	15	0.25	7	140	B0045231
						307.0	308.0	1	0.066	10	0.25	5	137	B0045232
						308.0	309.06	1.06	0.022	22	0.25	10	141	B0045233
						309.06	310.0	0.94	0.0025	2.5	0.25	10	34	B0045234
309.5	312.38	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	309.06	310.0	0.94	0.0025	2.5	0.25	10	34	B0045234
QFP, no deformation and porphyritic texture. Small stringer veins within the unit, showing mainly weak fracture-fill chlorite, moderate patchy carbonate. Larger veins within the unit show 0.5 - 3% disseminated pyrite, moderate patchy carbonate and weak fracture-fill chlorite alteration. Unit shows 0.5 % disseminated pyrite and 0.5% blebby pyrite.														
						310.0	311.0	1	0.03	2.5	0.25	7	33	B0045236
						311.0	311.81	0.81	0.0025	5	0.25	5	31	B0045237
						311.81	312.38	0.57	0.084	2.5	0.25	11	44	B0045238
312.38	314.15	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY	312.38	313.0	0.62	0.0025	5	0.25	21	95	B0045239
Similar to IVOL seen at 229. Similar to IVOL seen at 229. medium to coarse grained volcanics, lapilli tuff, lapilli size averaging 0.5cms, lapillis appear to be carb altered which increases their size. chl and ser alteration semi-pervasive through unit.														
314.15	315.98	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN									
QFP, very similar to QFP and 309.5 - 312.38, unit shows same deformation and alteration, 0.5% blebby pyrite and 0.5% disseminated pyrite. Unit shows subtle pervasive potassic and weak fracture-fill chlorite alteration.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
315.98	318.32	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY									
<p>Similar to IVOL seen at 229. Similar to IVOL seen at 229. medium to coarse grained volcanics, lapilli tuff, lapilli size averaging 0.5cms, lapillis appear to be carb altered which increases their size. chl and ser alteration semi-pervasive through unit.</p>														
318.32	323.02	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN									
<p>QFP, similar to QFP at 309.5 - 312.28, small stringer veins within the unit showing weak fracture-fill chlorite and weak patchy carbonate with 0.5% blebby pyrite. Overall the unit shows subtle potassic alteration and weak fracture-fill chlorite. The unit has 0.5% blebby pyrite and 0.5% disseminated pyrite.</p>														
323.02	330	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	LIGHT GREY	327.0	328.0	1	0.0025	2.5	0.25	13	127	B0045240
<p>Similar to IVOL seen at 229. medium to coarse grained volcanics, lapilli tuff, lapilli size averaging 0.5cms, lapillis appear to be carb altered which increases their size. chl and ser alteration semi-pervasive through unit.</p>														
						328.0	329.0	1	0.0025	2.5	0.25	15	140	B0045241
						329.0	330.0	1	0.007	2.5	0.25	50	318	B0045242
330	333.92	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	LIGHT GREY	330.0	331.0	1	0.125	2.5	0.6	187	2,300	B0045243
<p>Intermediate volcanics similar to 330m, host grain size is very fine grained with fine grained carbonate alteration within the tuffaceous host rock. Host rock appears to be altering with minor patchy carbonate, minor pervasive sericite and minor patchy chlorite. Overall the unit shows 0.5% disseminated pyrite within the host rock with increasing amounts in quartz veins.</p>														
<p>Quartz Veins appear throughout the host rock, ranging from 0.5 - 4 cm thick, each with 0.5 - 4% blebby pyrite. Some minor hematite seen within larger veins in the sequence. Veins also appear to have minor patchy carb and minor fracture-fill chlorite.</p>														
333.92	341.68	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	LIGHT GREY	333.92	334.42	0.5	0.0025	2.5	0.25	34	142	B0045247
<p>Intermediate volcanoclastic unit with elongated clasts, ranging from 1-3 cm thick, some being angular and others being round. Moderate fracture-fill chlorite is seen around the clasts, minor patchy carbonate is present within the host rock with weak pervasive sericite also in the host rock. The breccia texture is present throughout the unit, with chlorite stringers infill along clast margins. Overall the unit shows 2% blebby pyrite and 1% fracture-fill pyrite, with visible gold within a vein.</p>														
<p>Quartz veins within this unit are 1 - 9 cm thick, with weak patchy carb, weak patchy chlorite and weak fracture-fill tourmaline. From 334.67 - 334.70 is a vein showing 0.1 % visible gold, along with 2% blebby pyrite. The visible gold is found on the top of the blebby pyrite within the quartz veins. Along the lower portion of the quartz vein is more 3-5% blebby pyrite outside of the vein, which shows very minor gold on top of the pyrite.</p>														
						334.42	335.0	0.58	10.7	2.5	0.25	55	160	B0045248
						335.0	336.12	1.12	1.885	6	1.4	73	177	B0045251
						336.12	337.0	0.88	0.779	2.5	0.25	95	145	B0045252
						337.0	338.0	1	0.016	2.5	0.25	5	137	B0045253
						338.0	339.0	1	0.028	2.5	0.25	7	109	B0045254
						339.0	340.0	1	0.0025	2.5	0.25	8	106	B0045255
						340.0	341.0	1	0.0025	2.5	0.25	34	103	B0045257
						341.0	341.68	0.68	0.0025	2.5	0.25	81	221	B0045258
341.68	343.69	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	LIGHT GREY	341.68	343.0	1.32	0.0025	2.5	0.25	165	130	B0045259
<p>Intermediate volcanics similar to volcanics seen from 330 - 333.92m. Weak patchy carbonate, weak pervasive sericite and weak fracture-fill chlorite alteration are present within the unit. The unit overall has 1% disseminated pyrite along with 0.5 % blebby pyrite. Alteration and deformation is increased near contacts between IV and IVCL.</p>														
<p>Quartz veins within the unit are between 1 - 2 cm thick, with 0.5 - 1% blebby pyrite. The veins have minor fracture-fill chlorite and minor patchy carbonate.</p>														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
343.69	381.69	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	LIGHT GREY	343.69	345.0	1.31	0.021	2.5	0.25	119	116	B0045261
Intermediate volcanoclastic unit with small patches of volcanics within this unit. The clasts within this unit all look moderately deformed, elongated and have chlorite fracture-fill alteration surrounding the clasts.														
From 343.69 to 348 we see moderate pervasive sericite alteration, minor patchy carbonate and minor fracture-fill chlorite. The clasts are elongate and rounded within this unit. Overall the unit has 1% disseminated pyrite.														
From 348 - 353 we see clasts that are less elongate, moderate patchy carbonate alteration, weak fracture-fill chlorite and weak patchy silica. This area also has small areas of volcanics mixed into the unit. Overall this unit show 1% disseminated pyrite, with more found in the quartz veins.														
From 353 to 357.15 We have the same volcanoclastic unit as before in 343.69 - 348, with elongated clasts, which are also angular to sub-rounded. The unit has moderate fracture-fill chlorite, weak pervasive sericite and weak patchy carbonate. The unit has a quartz vein from 354.99 - 355.01 which shows visible gold similar to the previous visible gold, where the gold is ontop of the pyrite. This particular vein shows 5% blebby pyrite within the quartz vein and 0.1% visible gold. The vein has weak fracture-fill carbonate and weak fracture-fill chlorite. This unit displays the brecciated texture as seen in previous units. Overall this unit showed 1% disseminated pyrite, 1% blebby pyrite and 0.1% visible gold within the pyrite blebs.														
At 357.15 to 357.46 we have a highly altered and deformed zone within the IVCL, magnetite dyke. This unit has mostly intense pervasive sericite alteration with grains of magnetite present. Vugs are present within the quartz veins in the section. Overall the unit has 1% blebby pyrite and 0.5 % disseminated pyrite.														
357.45 to 370 we see a similar IVCL unit to the previous units, with weak - moderate pervasive sericite, moderate chlorite fracture-fill and weak patchy carbonate alteration. The unit has many quartz veins from 1 cm to 5 cm, showing carb - chlor alteration. This unit also displays very clear breccia texture as seen in previous IVCL units. Overall the unit has 1% blebby pyrite and 1% disseminated pyrite.														
370 to 381.69 is a very similar IVCL to the previous 357.15 - 370 unit but has subrounded to rounded clasts and weak pervasive sericite alteration. Clasts are less deformed, smaller and moderate fracture-fill chlorite alteration is more present. Clasts are easier to distinguish from the host rock / infill around the clasts. Deformation and alteration begins to lessen towards the lower contact of the IVCL unit, with it being almost entirely gone by the contact. Overall the unit shows 1% blebby pyrite and 1% disseminated pyrite, with the majority of pyrite being within the chlorite fracture-fill.														
						345.0	346.0	1	0.006	2.5	0.25	73	134	B0045262
						346.0	347.0	1	0.028	8	0.25	92	108	B0045264
						347.0	348.0	1	0.0025	2.5	0.25	91	111	B0045265
						348.0	349.0	1	0.0025	6	0.25	36	81	B0045266
						349.0	350.0	1	0.0025	2.5	0.25	20	77	B0045267
						350.0	351.0	1	0.104	2.5	0.25	34	72	B0045268
						351.0	352.0	1	0.0025	2.5	0.25	3	65	B0045269
						352.0	353.0	1	0.0025	2.5	0.25	47	87	B0045270
						353.0	354.0	1	0.011	2.5	0.25	252	140	B0045271
						354.0	354.75	0.75	0.019	2.5	0.25	97	135	B0045272
						354.75	355.25	0.5	35.3	2.5	1.3	162	104	B0045273
						355.25	356.0	0.75	0.037	2.5	0.25	91	122	B0045275
						356.0	356.65	0.65	0.672	2.5	0.25	109	91	B0045277
						356.65	357.15	0.5	0.06	2.5	0.25	131	80	B0045278
						357.15	357.46	0.31	0.133	2.5	0.25	130	59	B0045279
						357.46	358.0	0.54	1.71	5	0.25	123	71	B0045280
						358.0	359.0	1	0.033	2.5	0.25	130	87	B0045281
						359.0	360.0	1	0.454	2.5	0.25	84	91	B0045282
						360.0	361.0	1	0.012	2.5	0.25	91	114	B0045283
						361.0	362.0	1	2.25	2.5	0.25	92	104	B0045284
						362.0	363.0	1	0.023	2.5	0.25	117	130	B0045285
						363.0	364.0	1	5.08	8	0.25	147	108	B0045286
						364.0	365.0	1	3.27	5	0.25	36	124	B0045287
						365.0	366.0	1	0.089	2.5	0.25	34	127	B0045288
						366.0	367.0	1	0.04	5	0.25	49	127	B0045290
						367.0	368.0	1	0.075	2.5	0.25	62	117	B0045291
						368.0	369.0	1	0.274	2.5	0.25	43	106	B0045292
						369.0	370.0	1	0.677	2.5	0.25	78	104	B0045293
						370.0	371.0	1	0.11	2.5	0.25	111	125	B0045294
						371.0	372.0	1	0.0025	2.5	0.25	24	148	B0045295

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						372.0	373.0	1	0.954	2.5	0.25	47	142	B0045296
						373.0	374.0	1	0.048	2.5	0.25	67	124	B0045297
						374.0	375.0	1	0.006	2.5	0.25	84	117	B0045298
						375.0	376.0	1	0.296	5	0.25	89	113	B0045299
						376.0	377.0	1	0.074	2.5	0.25	60	117	B0045300
						377.0	378.0	1	2.44	2.5	0.25	12	117	B0045301
						378.0	379.0	1	0.169	2.5	0.25	58	119	B0045303
						379.0	380.0	1	0.055	2.5	0.25	33	101	B0045304
						380.0	380.86	0.86	0.263	2.5	0.25	8	81	B0045305
						380.86	381.39	0.53	0.059	2.5	0.25	9	46	B0045306
						381.39	382.0	0.61	0.071	2.5	0.25	10	57	B0045307
381.69	391.17	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	LIGHT GREY	381.39	382.0	0.61	0.071	2.5	0.25	10	57	B0045307
		Intermediate volcanic similar to 341.68-343.69. Very fine grained with a light grey colour due to lack of deformation in most areas. Weak to moderate patchy carbonate is present within the unit, which increases towards the center of the unit but decreases near both contacts. Weak patchy silica and weak fracture-fill chlorite is also present within the unit. Overall the unit has 1% blebby pyrite and 0.5% disseminated pyrite, with pyrite being more concentrated around the center of the unit.				382.0	383.0	1	0.008	5	0.25	4	77	B0045308
						383.0	384.0	1	0.018	2.5	0.25	2	86	B0045309
						384.0	385.0	1	0.073	2.5	0.25	2	79	B0045310
		Quartz veins present are from 1 - 6 cm thick, most showing weak fracture-fill chlorite and moderate patchy carbonate. Veins show 0.5% to 3% blebby pyrite with 0.5% fracture-fill pyrite.				385.0	386.0	1	0.018	2.5	0.25	2	83	B0045311
						386.0	387.0	1	0.005	2.5	0.25	1	83	B0045312
						387.0	388.0	1	2.82	2.5	0.25	4	76	B0045314
						388.0	389.0	1	0.046	2.5	0.25	10	78	B0045315
						389.0	390.0	1	0.977	2.5	0.25	32	97	B0045316
						390.0	390.81	0.81	0.056	2.5	0.25	77	118	B0045318
						390.81	391.17	0.36	0.023	2.5	0.25	79	123	B0045319
391.17	397	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	391.17	392.0	0.83	0.0025	2.5	0.25	65	126	B0045320
		Intermediate volcanoclastic unit similar to previous IVCL units with angular - sub-rounded clasts, moderate deformation and weak alteration. The unit is separate from the lower IVCL unit 397 - 417 due to the difference in alteration and clast amount. Moderate fracture-fill chlorite, weak patchy carbonate and subtle fracture-fill sericite alteration is present within the host rock and along clast margins. This unit has the distinct breccia texture as seen previously in other IVCL units. Overall the unit shows 0.5% disseminated pyrite and 0.5% fracture-fill pyrite.				392.0	393.0	1	0.0025	2.5	0.25	58	131	B0045321
						393.0	394.0	1	0.009	2.5	0.25	104	142	B0045322
						394.0	395.0	1	0.016	2.5	0.25	167	624	B0045323
		Quartz veins in this unit are mainly small stringer veins, 0.3 - 0.5 cm thick, few are larger than 1 cm. There are also a few irregular veins crosscutting the core. These veins show 0.5 - 1% disseminated pyrite.				395.0	396.0	1	0.016	2.5	0.25	146	170	B0045324
						396.0	397.0	1	0.008	5	0.25	129	123	B0045325

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
397	428	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	LIGHT GREY	397.0	398.0	1	0.012	2.5	0.25	113	139	B0045326
Intermediate volcaniclastic unit with sparse clasts which are also sub-rounded to rounded and less of the breccia texture. Moderate patchy silica and moderate patchy carbonate and weak fracture-fill chlorite are present within the unit. The fracture-fill chlorite is still present within this unit, but is not as strong as previous IVCL units with the breccia texture. The unit still has an alteration following foliation. Overall this unit has 1% disseminated pyrite.						398.0	399.0	1	0.316	2.5	0.25	75	134	B0045327
The quartz veins in this unit are mostly 0.3 - 0.5 cm stringers with few veins larger than 2 cm. Most stringers show little alteration or sulphides. But the larger veins show moderate fracture-fill chlorite and 0.5 - 1% blebby pyrite.						399.0	400.0	1	0.013	7	0.25	67	139	B0045329
						400.0	401.0	1	0.482	2.5	0.25	64	145	B0045330
						413.0	414.0	1	0.007	2.5	0.25	86	145	B0045331
						414.0	415.0	1	0.025	2.5	0.25	102	129	B0045332
						415.0	416.0	1	0.028	2.5	0.25	141	130	B0045333
428	459.76	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	431.0	432.33	1.33	0.013	2.5	0.25	76	128	B0045334
An intermediate volcaniclastic unit similar to the volcaniclastic unit at 391.17 - 397 m. This unit has angular - sub-rounded clasts and moderate deformation. The clasts are mostly foliated, with alteration following their margins. The alteration in this unit includes moderate chlorite fracture-fill, weak - moderate patchy carbonate, increasing in areas with quartz veins and weak patchy silica alteration. Overall the unit shows multiple areas of a brecciated texture. Overall the unit has 0.5% disseminated pyrite, 1% fracture-fill pyrite and 0.5% blebby pyrite.						432.33	433.44	1.11	0.205	2.5	0.25	38	139	B0045335
						433.44	434.0	0.56	0.006	2.5	0.25	63	151	B0045336
						434.0	435.0	1	0.012	2.5	0.25	97	146	B0045337
The unit has many 0.1 - 0.5 cm quartz vein stringers which show little alteration and little to no sulphides. The larger veins are 1- 6 cm thick, with weak - moderate fracture-fill chlorite and moderate patchy carbonate alteration. Some veins show vugs, and most veins show 0.5 - 1% blebby pyrite and 0.5% fracture-fill pyrite.						435.0	436.0	1	0.011	6	0.25	101	150	B0045338
						436.0	437.0	1	0.007	2.5	0.25	80	150	B0045339
						437.0	438.0	1	0.008	2.5	0.25	110	158	B0045340
459.76	474.08	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	LIGHT GREY									
An intermediate volcanics unit with small interbeds of volcaniclastic units. These interbeds show small amounts of clasts with the brecciated texture present, as well as the chlorite fracture-fill alteration. The unit appears to be 90% very fine grained volcanics and 10% fine grained volcaniclastics. The unit is moderately deformed, with alteration following a foliation. The alteration includes moderate patchy chlorite, weak patchy carbonate and weak patchy silica. The carbonate alteration is more seen in the very fine grained volcanics rather than in the interbeds of volcaniclastics. Overall the unit has 1% disseminated pyrite and 0.5 % fracture-fill pyrite.														
This unit has mainly small qtz - carb stringer veins which are 0.1 - 0.5 cm thick, most show no sulphides and only moderate pervasive carbonate alteration. Few veins are larger than 0.5 cm, some are irregular or crosscutting with similar mineralization and alteration as the stringers.														
This unit is separated from the lower unit due to the amount of volcaniclastics and volcanics within each unit. The next unit has an increase in volcaniclastics and a decrease in volcanics.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
474.08	482.7	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	474.08	475.0	0.92	0.0025	2.5	0.25	28	144	B0045342
This unit is made of 70% intermediate volcanoclastic and 30% volcanics. The unit has interbeds of darker very fine grained volcanics intermixed with lighter grey volcanoclastic units. The alteration and mineralization within this unit is broken out into different sections.						475.0	475.9	0.9	0.0025	7	0.25	73	140	B0045343
						475.9	476.49	0.59	0.0025	2.5	0.25	34	153	B0045344
From 474.08 - 476.49 the unit is volcanoclastic with moderate pervasive chlorite altering the clasts, which is surrounded by strong fracture-fill carbonate alteration with some weak fracture-fill silica alteration as well. The clasts may be reworked volcanics from the surrounding volcanics, as they appear the same composition. Unlike previous units where the clasts are surrounded by chlorite fracture-fill, this unit is surrounded by carbonate and silica alteration infill. Overall this unit has 0.5% blebby pyrite and 0.5% disseminated pyrite, with only minor stringer veins that show weak fracture-fill carbonate and no sulphides.						476.49	477.0	0.51	0.0025	2.5	0.25	16	163	B0045345
						477.0	478.0	1	0.0025	5	0.25	19	171	B0045346
						478.0	479.0	1	0.005	2.5	0.25	46	153	B0045347
						479.0	479.85	0.85	0.011	2.5	0.25	45	158	B0045348
476.49 - 478 there is a volcanic unit within the IVCL which is very fine grained, and dark grey. Moderate pervasive chlorite and weak patchy carbonate is present within the unit. The unit hosts multiple quartz veins 0.5 - 2 cm in thickness and several cross cutting each other. These veins have 0.5 - 1% blebby pyrite, moderate patchy carbonate and weak fracture-fill chlorite. The lower contact of the IV and upper contact of the IVCL unit is gradational, being somewhere near 478 m. Overall the unit has 0.5 % blebby pyrite						479.85	480.4	0.55	0.434	2.5	0.25	43	158	B0045349
						480.4	481.0	0.6	0.016	2.5	0.25	50	158	B0045350
						481.0	481.61	0.61	0.01	2.5	0.25	54	162	B0045351
478 - 480.40 we see the same type of IVCL unit as previously described in 474.08 - 476.49 m. This unit has the same moderate chlorite alteration within the clasts and strong fracture-fill carbonate and weak fracture-fill silica alteration. The quartz veins in this unit are mostly sparse and only 0.1 - 0.3 cm in thickness, showing subtle fracture-fill chlorite and weak patchy carbonate alteration with 0.5 % blebby pyrite. Overall this unit shows 0.5% blebby pyrite and 0.5% disseminated pyrite.						481.61	482.0	0.39	0.043	2.5	0.5	133	192	B0045352
						482.0	483.0	1	0.007	2.5	0.25	50	173	B0045353
480.40 - 482.70 is a volcanic unit which is the same as the previous volcanic unit from 476.49 - 478 m. This unit shows moderate pervasive chlorite and subtle - weak patchy carbonate. This unit also has only small stringer veins and small irregular veins, all which show 0.5 % blebby pyrite. Overall the unit shows 0.5% disseminated pyrite, 0.5% blebby pyrite, and 0.1% fracture-fill pyrite.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
482.7	508.4	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	482.0	483.0	1	0.007	2.5	0.25	50	173	B0045353
<p>This volcanoclastic unit has 15 - 20% volcanic and 80-85% volcanoclastics, it is separate from the previous unit because of this and the alteration style. From 482.7 - 486.85 we see a large increase in mineralization with 4% fracture-fill pyrite running along the chlorite fracture-fill, along with 2% blebby pyrite and 0.5% disseminated pyrite throughout the unit. Alteration along this unit is mostly moderate chlorite fracture-fill, with moderate pervasive carbonate and weak patchy silica (possible amygdaloids). The breccia texture is present in some parts of this unit. The quartz veins in this section are moderately deformed, most are irregular, showing moderate fracture-fill chlorite and moderate patchy carbonate. Some veins also show 4-5% fracture-fill pyrite.</p>														
<p>From 486.85 - 508.4 the unit is consistent with small repeating units of dark grey volcanics similar to the ones seen in 474.08 - 482.7 m.</p>														
<p>The volcanic units contain mostly moderate pervasive chlorite, weak fracture-fill carbonate and weak fracture-fill silica. They show the same mineralization as the IVCL unit, just differing in alteration. The quartz veins also seem to follow closely to the contacts between the small beds of IV and IVCL.</p>														
<p>The IVCL units within this unit are mostly moderate fracture-fill chlorite, moderate pervasive carbonate and weak patchy silica alteration. The clasts within this unit are mostly altered to carbonate with weak quartz, and infilling around the clasts.</p>														
<p>This unit has many large quartz veins showing mineralization, some showing up to 3% blebby pyrite and 2% fracture-fill pyrite. One vein from .494.70 - 494.81 m shows moderate fracture-fill chlorite and moderate patchy carbonate with 3% blebby pyrite. The unit contains more 0.1 - 0.5 cm stringer veins which only show moderate pervasive carbonate alteration and 0.1% blebby pyrite.</p>														
<p>Overall this section contains 1% disseminated pyrite.</p>														
						483.0	484.0	1	0.013	2.5	0.25	63	190	B0045355
						484.0	485.0	1	0.006	2.5	0.25	91	187	B0045356
						485.0	486.0	1	0.029	2.5	0.25	89	215	B0045357
						486.0	487.0	1	0.011	2.5	0.25	46	182	B0045358
						487.0	488.0	1	0.0025	2.5	0.25	23	173	B0045359
						488.0	489.0	1	0.005	2.5	0.25	9	93	B0045360
						489.0	490.0	1	0.011	2.5	0.25	9	114	B0045361
						490.0	491.0	1	0.005	2.5	0.25	19	195	B0045362
						491.0	492.0	1	0.012	2.5	0.25	28	184	B0045363
						492.0	493.0	1	0.007	2.5	0.25	34	146	B0045364
						493.0	494.0	1	0.032	2.5	0.25	42	152	B0045365
						494.0	495.0	1	0.005	2.5	0.25	51	151	B0045366
						495.0	495.64	0.64	0.007	2.5	0.25	41	161	B0045368
						495.64	496.5	0.86	0.0025	2.5	0.8	74	151	B0045369
						496.5	497.0	0.5	0.0025	6	0.25	40	163	B0045370
						497.0	498.0	1	0.012	2.5	0.25	76	175	B0045371
						498.0	499.0	1	0.287	2.5	0.25	78	179	B0045372
						499.0	500.0	1	0.016	6	0.25	57	193	B0045373
						500.0	501.0	1	0.27	2.5	0.25	109	192	B0045374
						501.0	502.0	1	0.046	2.5	0.25	85	251	B0045375
						502.0	503.0	1	0.0025	2.5	0.25	43	225	B0045376
						503.0	504.0	1	0.061	2.5	0.25	30	205	B0045377
						504.0	505.0	1	0.01	2.5	0.25	20	195	B0045378
						505.0	506.0	1	0.01	2.5	0.25	26	171	B0045379
						506.0	507.0	1	0.008	10	0.25	31	194	B0045381
						507.0	507.9	0.9	0.006	2.5	0.25	48	287	B0045382
						507.9	508.4	0.5	0.014	5	0.25	27	236	B0045383

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
508.4	515.2	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	LIGHT GREY	508.4	509.0	0.6	0.024	12	0.25	19	206	B0045384
This volcanic unit is similar to other IV units seen in 381.69 - 391.17 m, the unit is light grey and very fine grained, and weakly deformed. Alteration within this unit is also subtle - weak, with subtle fracture-fill chlorite, weak patchy carbonate and weak fracture-fill quartz.. Overall this unit shows 0.5% disseminated pyrite.						509.0	510.0	1	0.0025	2.5	0.25	8	188	B0045385
The unit has several small stringer qtz - carb veins with no sulphides and a few 1 cm quartz veins with moderate patchy carbonate and subtle fracture-fill chlorite with 0.1 % blebby pyrite.						510.0	511.0	1	0.0025	2.5	0.25	11	154	B0045386
						511.0	512.0	1	0.0025	2.5	0.25	5	146	B0045387
						512.0	513.0	1	0.0025	2.5	0.25	5	127	B0045388
						513.0	514.0	1	0.0025	2.5	0.25	8	90	B0045389
						514.0	514.7	0.7	0.0025	2.5	0.25	29	90	B0045390
						514.7	515.2	0.5	0.0025	2.5	0.25	13	88	B0045392
						515.2	537	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	515.2	516.0	0.8
This unit is the same IVCL unit as 486.85 - 508.4 m. This unit has 15% volcanics and 85% volcanoclastics.						516.0	517.0	1	0.008	2.5	0.25	63	152	B0045394
The IVCL unit contains moderate fracture-fill chlorite, moderate - strong pervasive carbonate and weak patchy silica alteration. The also has some clasts which are altering to chlorite but they make up a minority in this section.						517.0	518.0	1	0.007	2.5	0.25	87	129	B0045395
The volcanic units within this section are mostly weak fracture-fill quartz, weak fracture-fill chlorite and moderate pervasive carbonate. The volcanic units are weakly deformed and weakly altered.						518.0	519.0	1	0.0025	2.5	0.25	30	118	B0045396
The quartz veins from 515.2 - 525.59 m are mostly 0.1 - 0.5 cm stringer veins showing moderate patchy carbonate alteration and 0.1% blebby pyrite. The veins from 525.59 - 537 m are larger, 0.1 - 0.5 cm stringers are still present but larger 1-3 cm veins are also present, showing weak fracture-fill chlorite, moderate patchy carbonate and 1% fracture-fill pyrite.						519.0	520.0	1	0.0025	2.5	0.25	16	117	B0045397
From 515.2 - 525.59 m the mineralization is 0.5% disseminated pyrite. From 525.59 - 537 m the alteration remains but mineralization picks up considerably, with 3% fracture-fill pyrite and 1% fracture-fill hematite (this may be hematite staining from the pyrite weathering).						520.0	521.0	1	0.0025	2.5	0.25	24	116	B0045398
						521.0	522.0	1	0.014	2.5	0.25	30	115	B0045399
						522.0	523.0	1	0.0025	2.5	0.25	36	114	B0045400
						523.0	524.0	1	0.062	2.5	0.25	57	116	B0045401
						524.0	525.0	1	0.006	2.5	0.25	24	123	B0045402
						525.0	526.0	1	0.0025	2.5	0.25	31	156	B0045403
						526.0	527.0	1	0.0025	2.5	0.25	33	178	B0045404
						527.0	528.0	1	0.0025	2.5	0.25	37	250	B0045405
						528.0	529.0	1	0.005	2.5	0.25	68	499	B0045407
						529.0	530.0	1	0.049	2.5	0.25	153	3,660	B0045408
530.0	531.0	1	0.02	2.5	0.7	271	3,540	B0045409						
531.0	532.0	1	0.0025	2.5	0.25	88	756	B0045410						
532.0	533.0	1	0.0025	2.5	0.25	54	368	B0045411						
533.0	534.0	1	0.005	2.5	0.25	47	254	B0045412						
534.0	535.0	1	0.012	2.5	0.25	73	246	B0045413						
535.0	536.0	1	0.0025	2.5	0.25	59	171	B0045414						
536.0	537.0	1	0.0025	2.5	0.25	68	135	B0045415						

Project: Van Horne **Hole Number:** VH20-002

Drill Hole		Drilling		Coordinates	
Prospect: VH-GLATZ	Operator: KGC EXPLORATION	Start Date: Feb-21-2020	Survey Method: HANDHELD GPS		
Year: 2020	Geologist: PERCY CLARK	End Date: Mar-02-2020	Grid: NAD83 / UTM zone 15N		
Hole Size: NQ	Casing Depth: 9	Drill Company: Major Drilling	Easting: 505,383		
Orient: ACT III	EOH: 955		Northing: 5,508,603		
Hole Status: COMPLETE	Logged Depth: 955		Elevation: 376		

Comments: Sample B0045820 had VG and sample with VG remained in box

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	9.49	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
9.49	60.33	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	LIGHT GREY	10.0	11.0	1	0.0025	2.5	0.25	124	116	B0045416
An intermediate volcanic unit with interbeds of volcanoclastic units, 60% volcanics 40% volcanoclastics. The volcanics are very fine grained, light grey and show weak deformation and weak alteration. The volcanoclastic units show large clasts with weak - moderate deformation and moderate alteration. The unit shows both large quartz veins and small stringer veins throughout the unit. The volcanics gradationally transition into areas that appear to be volcanoclastics. Some of these volcanoclastics may be due to alteration.						11.0	12.0	1	0.0025	2.5	0.25	81	134	B0045417
						12.0	13.0	1	0.0025	2.5	0.25	99	128	B0045418
						13.0	14.0	1	0.0025	2.5	0.25	130	146	B0045420
From 9.49 - 33.11 we see weak fracture-fill chlorite, weak patchy carbonate, (possibly amygdaloids), weak pervasive carbonate and subtle pervasive sericite, with alternating beds of volcanics and volcanoclastics. This area has 1% blebby pyrite and 0.5% disseminated pyrite. The unit has many large quartz veins showing weak - strong alteration and 0.5 - 2% blebby pyrite. from 11.01 - 11.17 is a large vein with strong fracture-fill sericite, strong pervasive potassic alteration and moderate fracture-fill chlorite alteration with 2% blebby pyrite. The unit also shows small stringer veins with 0.1 - 0.5 % fracture-fill pyrite.						14.0	15.0	1	0.0025	2.5	0.5	137	123	B0045421
						15.0	16.0	1	0.0025	2.5	0.25	80	116	B0045422
						16.0	17.0	1	0.0025	2.5	0.25	58	105	B0045423
						17.0	18.0	1	0.0025	6	0.25	65	112	B0045424
From 39.11 - 47 m we see alot more alteration and deformation surrounding the quartz stringer veins. The unit shows moderate pervasive carbonate, weak patchy chlorite and weak fracture-fill silica alteration, along with 1% blebby pyrite.						18.0	19.0	1	0.0025	2.5	0.25	106	131	B0045425
						19.0	20.0	1	0.0025	5	0.25	49	141	B0045426
From 47 - 56 m we see volcanics similar to 39.11 - 47 m but we see weak fracture-fill chlorite, weak pervasive potassic and weak patchy carbonate alteration. Same mineralization as previous unit						20.0	21.0	1	0.0025	2.5	0.25	32	106	B0045427
						21.0	22.0	1	0.0025	5	0.25	81	117	B0045428
From 56 - 60.33 we see very fine grained ash tuff with subtle deformation and alteration, subtle patchy carbonate and subtle fracture-fill silica with 0.5% fracture-fill pyrite near the end of the unit. As we approach the lower contact of the IV and the upper contact of the QFP we see an increase in deformation and alteration similar to the alteration seen in 47 - 56 m.						45.0	46.0	1	0.0025	5	0.25	3	88	B0045429
						46.0	47.0	1	0.0025	2.5	0.25	5	88	B0045430
						47.0	48.0	1	0.0025	5	0.25	19	85	B0045431
						48.0	49.0	1	0.0025	21	0.25	35	88	B0045433
						49.0	50.0	1	0.0025	9	0.25	24	89	B0045434
						50.0	51.0	1	0.0025	2.5	0.25	16	84	B0045436
						51.0	52.0	1	0.0025	2.5	0.25	28	73	B0045437
						52.0	53.0	1	0.0025	2.5	0.25	24	70	B0045438
						53.0	54.0	1	0.0025	2.5	0.25	24	77	B0045439
						54.0	55.0	1	0.0025	2.5	0.25	54	73	B0045440
						55.0	56.0	1	0.0025	2.5	0.25	17	71	B0045441
						56.0	57.0	1	0.0025	2.5	0.25	17	72	B0045442
						57.0	58.0	1	0.0025	5	0.25	28	70	B0045443

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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60.33 66.08 QFP, Quartz-Feldspar Porphyry PORPHYRITIC MEDIUM RED-BROWN

A QFP unit which is weakly deformed and moderately altered. The unit shows sharp contacts within the IV unit and shows increased alteration and deformation around both contacts. Moderate pervasive potassic, weak patchy chlorite and weak fracture-fill chlorite alteration is present within the unit. Overall the unit shows 0.5% blebby pyrite and 0.5% disseminated pyrite.

The unit has small stringer veins showing mostly strong fracture-fill tourmaline and weak fracture-fill chlorite with 0.5% fracture-fill pyrite. The unit is bound by two quartz veins which both show weak fracture-fill chlorite and 0.5% disseminated pyrite.

66.08 83.13 IV, INTERMEDIATE VOLCANIC TUFFACEOUS VERY FINE GREY

An intermediate volcanic (ash tuff) unit shows weak deformation and weak alteration. The unit has a gradational lower contact between the IV and IVCL and a sharp upper contact between the QFP and IV. Deformation increases with proximity to the contact between the IV and QFP. The unit has weak pervasive chlorite, weak fracture-fill carbonate and weak patchy silica alteration. Overall the unit shows 0.5% disseminated pyrite, and 0.5 - 1% blebby pyrite around quartz veins.

The unit has many 0.1 - 0.5 % stringer veins showing weak - moderate fracture-fill carbonate and weak fracture-fill chlorite alteration. Minor amounts of tourmaline are seen within the stringer veins. There are also few 1-2 cm veins showing weak fracture-fill chlorite and weak patchy carbonate alteration and 0.1% blebby pyrite.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
83.13	100.61	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	85.0	86.0	1	0.0025	2.5	0.25	60	102	B0045444
An intermediate volcaniclastic unit showing moderate deformation and moderate alteration. This unit shows a breccia texture with foliation along clasts and alteration.. The clasts within this unit are distinct from the ground mass due to alteration. The unit has moderate pervasive chlorite alteration, weak patchy carbonate alteration and strong patchy iron carbonate alteration within the clasts. The groundmass has the pervasive chlorite and weak patchy carbonate alteration while the clasts are mostly altered by strong patchy iron carbonate alteration. The clasts are sub-rounded to angular. The unit has stronger deformation towards the lower contact of the IVCL and the upper contact of the next IV unit. Overall the unit shows 0.5% blebby pyrite and 0.5% disseminated pyrite, with most pyrite found between clasts and within the alteration.														
The unit has mostly 1-2 cm quartz veins show 0.5% blebby pyrite, weak patchy carbonate and weak fracture-fill chlorite. There are two irregular large veins / vein sets within this unit, from 98.98 - 99.10 and 99.75 - 100.56.														
The quartz vein from 98.98 - 99.10 is irregular and shows strong fracture-fill chlorite with weak patchy carbonate alteration. The vein shows 0.5% blebby pyrite and 0.1% fracture-fill pyrite.														
The vein set from 99.75 - 100.56 consists of 9 veins, making the set 30% host rock and 70% vein. The set has strong fracture-fill chlorite, weak patchy carbonate alteration and shows 0.5% fracture-fill pyrite and 0.5% blebby pyrite.														
99.75 - 100.56 : Quartz Vein, Irregular qtz - chlor - carb vein set, 9 veins in total. Fracture-fill chlorite and patchy carbonate. 0.5% blebby pyrite and 0.5% fracture-fill pyrite, 30% host rock, 70% vein.														
						86.0	87.0	1	0.0025	2.5	0.25	80	104	B0045446
						87.0	88.0	1	0.0025	2.5	0.25	57	105	B0045447
						88.0	89.0	1	0.0025	5	0.25	37	124	B0045448
						89.0	90.0	1	0.0025	2.5	0.25	61	112	B0045449
						90.0	91.0	1	0.0025	2.5	0.25	81	113	B0045450
						91.0	92.0	1	0.0025	5	0.25	42	116	B0045451
						92.0	93.0	1	0.0025	5	0.25	20	112	B0045452
						93.0	94.0	1	0.0025	2.5	0.25	33	113	B0045453
						94.0	95.0	1	0.0025	2.5	0.25	69	102	B0045454
						95.0	96.0	1	0.0025	2.5	0.25	51	102	B0045455
						96.0	97.0	1	0.0025	6	0.25	33	108	B0045456
						97.0	98.0	1	0.0025	7	0.25	47	106	B0045457
						98.0	98.9	0.9	0.0025	5	0.25	81	112	B0045459
						98.9	99.6	0.7	0.0025	2.5	0.25	104	130	B0045460
						99.6	100.61	1.01	0.0025	2.5	0.25	32	87	B0045461

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
100.61	106.97	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	GREY	100.61	101.17	0.56	0.0025	2.5	0.25	17	107	B0045462
An intermediate volcanic unit (ash tuff) with moderate deformation mostly around quartz veins, and weak - moderate alteration. Moderate patchy chlorite, weak patchy carbonate and subtle patchy silica alteration. Overall the unit has 0.5 % blebby pyrite.						101.17	102.0	0.83	0.0025	2.5	0.25	8	126	B0045463
The unit has a large vein set from 103.57 - 103.87 and few 1 cm qtz - carb veins. The large vein set shows 0.5% fracture-fill pyrite with strong fracture-fill chlorite and moderate patchy carbonate alteration. The smaller veins show moderate fracture-fill chlorite and weak patchy carbonate with 0.1% - 0.5% disseminated pyrite.						102.0	103.0	1	0.0025	2.5	0.25	7	123	B0045464
						103.0	104.0	1	0.0025	2.5	0.25	33	115	B0045465
103.57 - 103.87 : Quartz Vein, qtz - chlor - carb vein set, 5 veins in total, 60% host rock, 40% vein. 0.5% blebby pyrite.						104.0	105.0	1	0.0025	2.5	0.25	5	120	B0045466
						105.0	106.0	1	0.0025	2.5	0.25	11	129	B0045467
						106.0	106.97	0.97	0.0025	2.5	0.25	9	136	B0045468
106.97	111.27	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	106.97	108.0	1.03	0.0025	2.5	0.25	42	92	B0045470
An intermediate volcaniclastic unit with clasts from 1 - 10 cm in diameter. The clasts appear elongated, sub-rounded to angular and strongly altered. The unit has strong deformation and moderate alteration, mostly around quartz veins, with deformation dropping to moderate with reduced proximity to quartz veins. The unit displays a foliated and breccia texture; alteration and clasts run along the foliation. Strong fracture-fill chlorite, moderate pervasive iron carbonate and weak patchy silica alteration appears within the unit; silica and chlorite alteration pertain to the groundmass while the iron carbonate alteration is restricted to the clasts. Overall the unit has 0.5% disseminated pyrite and 0.5% fracture-fill pyrite.						108.0	109.0	1	0.0025	2.5	0.25	51	92	B0045471
The unit has 2 large quartz veins (107.49 - 107.58, 108.56 - 108.59) with many small irregular veins. The larger quartz veins show moderate fracture-fill chlorite and weak patchy carbonate with 0.5% blebby pyrite in 107.49 - 107.58 and 2% fracture-fill pyrite within the vugs of 108.56 - 108.59. The smaller veins show 0.5 - 1% fracture-fill pyrite, and weak patchy carbonate.						109.0	110.0	1	0.0025	2.5	0.25	50	83	B0045472
						110.0	111.27	1.27	0.0025	2.5	0.25	30	117	B0045473

Project: Van Horne						Hole Number: VH20-002								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
111.27	141.94	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	GREY	111.27	112.0	0.73	0.0025	2.5	0.25	21	114	B0045474
An intermediate volcanic (ash tuff) unit with weak deformation and alteration until 135 m and on until 141.94 with the contact between the IV and IVCL unit. Past 135 m, large quartz veins and vein sets have strong - intense alteration and deformation surrounding them.						112.0	113.0	1	0.0025	2.5	0.25	21	130	B0045475
						113.0	114.0	1	0.0025	2.5	0.25	69	134	B0045476
From 111.27 - 135 m the unit has weak patchy chlorite, moderate pervasive carbonate and subtle patchy silica. The unit has weak deformation and overall has 0.1 % blebby pyrite.						114.0	115.0	1	0.0025	2.5	0.25	22	145	B0045477
						115.0	116.0	1	0.0025	2.5	0.25	9	144	B0045478
Quartz veins within this unit consist of both 0.1 - 0.5 cm stringers and large quartz vein sets. The stringers show 0.1 - 0.5% fracture-fill pyrite and very little alteration. The large vein sets from 115.46 - 115.93 (4 veins, 80% host rock, 20% veins), 116.35 - 116.51 (95% vein, 5% host rock) and 117.93 - 118 m (100% vein) show 1% fracture-fill pyrite, moderate fracture-fill chlorite and weak patchy carbonate alteration. From 136.92 - 137 we see a breccia texture within the IV unit and strong pervasive iron carbonate alteration.						116.0	117.0	1	0.0025	5	0.25	28	160	B0045479
						117.0	118.0	1	0.0025	2.5	0.25	23	145	B0045480
From 135 - 140 we see the same IV unit but with moderate patchy carbonate, moderate patchy silica and subtle fracture-fill chlorite.						118.0	119.0	1	0.0025	2.5	0.25	9	141	B0045481
						119.0	120.0	1	0.0025	2.5	0.25	31	141	B0045482
From 140 - 140.14 we see a quartz vein with strong pervasive iron carbonate alteration, moderate pervasive sericite and weak fracture-fill chlorite. 0.5% blebby pyrite and 0.5% disseminated pyrite present within this deformation zone.						136.0	137.0	1	0.0025	2.5	0.25	38	82	B0045483
						137.0	138.0	1	0.0025	2.5	0.25	41	69	B0045485
140.14 - 140.52 same IV as 111.27 - 135 m.						138.0	139.0	1	0.0025	2.5	0.25	32	65	B0045486
140.52 - 140.6 shows another deformation zone surrounding a quartz vein, showing moderate pervasive iron carbonate, weak fracture-fill chlorite and weak pervasive sericite. 0.5% disseminated pyrite.						139.0	139.85	0.85	0.0025	2.5	0.25	34	80	B0045487
						139.85	141.0	1.15	0.01	2.5	0.25	32	88	B0045488
140.6 - 141.82 same IV as 111.27 - 135 m						141.0	141.94	0.94	0.0025	2.5	0.25	41	93	B0045489
141.82 - 141.93 a quartz vein set with 2 veins, surrounded by a halo of deformation. Strong pervasive iron carbonate alteration, moderate fracture-fill chlorite and moderate pervasive sericite alteration. 1% fracture-fill pyrite is present.														
115.46 - 115.95 : Quartz Vein, Qtz - carb - chlor vein set (4 veins 80% host rock, 20% vein) 0.1% - 0.5% fracture-fill pyrite.														
141.94	181.16	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	141.94	143.0	1.06	0.0025	2.5	0.25	47	102	B0045491
An intermediate volcaniclastic unit with moderate deformation and moderate - strong alteration. The alteration and deformation decrease past 145.68 m. The alteration before 145.68 is mainly surrounding quartz veins causing small deformation zones, with strong pervasive sericite, strong fracture-fill iron carbonate and strong fracture-fill chlorite alteration from 142.41 - 142.64 m, 1% fracture-fill pyrite and 0.5% blebby pyrite around present within the zone. This area shows 0.5% blebby pyrite and 0.5% fracture-fill pyrite.						143.0	144.0	1	0.0025	2.5	0.25	21	100	B0045492
						144.0	145.0	1	0.0025	2.5	0.25	29	105	B0045493
						145.0	146.0	1	0.0025	2.5	0.25	13	98	B0045494
The area before 145.68 shows moderate pervasive carbonate, moderate fracture-fill iron carbonate, moderate pervasive sericite, moderate patchy iron carbonate (altering only clasts) and moderate fracture-fill chlorite with stronger iron carbonate and sericite surrounding quartz veins.						146.0	147.0	1	0.0025	2.5	0.25	18	96	B0045495
						147.0	148.0	1	0.0025	2.5	0.25	44	94	B0045496
From 145.68 - 181.16 m we see clasts from 2 - 6 cm in diameter which are sub-rounded to angular and less deformed than before 145.68 m. Moderate patchy iron carbonate, moderate pervasive carbonate and weak fracture-fill chlorite alteration are present (Iron carbonate is only altering clasts, and half the clasts are not altered or weakly altered with calcium carbonate). Overall this unit shows 0.5% blebby pyrite						179.0	180.0	1	0.005	7	0.25	55	157	B0045498
						180.0	180.5	0.5	0.0025	2.5	0.25	44	201	B0045499
						180.5	181.16	0.66	0.005	2.5	0.25	39	189	B0045500

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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181.16	183.76	IV, INTERMEDIATE VOLCANIC	TUFFACEOUS	VERY FINE	GREY	181.16	182.0	0.84	0.011	6	0.25	28	277	B0045501
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An intermediate volcanic unit (ash tuff) which is between two IVCL units, this unit shows weak deformation and weak alteration. The unit has areas of increased mineralization and alteration surrounding two small quartz veins. The unit shows weak patchy carbonate alteration, subtle patchy silica alteration and weak fracture-fill carbonate alteration. From 182.44 - 182.98 m within the zone surrounding the veins, the host rock shows the same alteration as the previous rock with subtle fracture-fill chlorite around the veins. Within this interval, we see 3% fracture-fill pyrite and 1% blebby pyrite. Overall the unit shows 0.5% disseminated pyrite and 0.5% blebby pyrite

The quartz veins in the unit at 182.52 and 182.72 m both show weak patchy carbonate and weak fracture-fill chlorite with 3-5 % fracture-fill pyrite within the quartz margins and the surrounding host rock.

183.76	234.79	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	183.76	185.0	1.24	1.49	83	0.8	239	7,070	B0045504
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An intermediate volcanoclastic unit with moderate deformation and moderate alteration. The unit has differing clast sizes and alteration, 95% of clasts are rounded - sub-rounded, with 5% being angular. The unit shows moderate fracture-fill chlorite, moderate patchy carbonate, moderate patchy silica and weak pervasive sericite alteration after 195 m; before 195 m we have strong pervasive carbonate, weak patchy silica, weak fracture-fill chlorite and weak pervasive sericite alteration, with the carbonate affecting both the clasts and the host rock. Past 195 m the chlorite and sericite alteration affects both the clasts and host rock while the carbonate and silica alteration is mainly constrained to the clasts. A zone of mineralization extends from 183.76 - 184.27 m showing 5% fracture-fill pyrite and 0.5% blebby pyrite, with the same alteration as the rest of the unit before 195 m. The breccia texture is present from 183.76 - ~ 185.30 m. Overall the unit shows 0.5% blebby pyrite and 0.5% disseminated pyrite.

Within this unit there are small (>10cm) areas of very fine grained IV areas, which appear to be large unaltered clasts. The lack of a chilled margin leads me to believe they are just large clasts.

The unit has very few quartz veins, most are no more than 1 cm wide, with the exception of the vein at the contact between the IV and IVCL at 183.76 and a semi-irregular vein at 234.6 - 234.66 m.. The vein runs from 183.76 - 183.81 m, shows 5% fracture-fill pyrite, moderate fracture-fill chlorite and moderate patchy carbonate. The vein at 234.6 - 234.66 m shows 0.5% disseminated pyrite, weak patchy carb and weak fracture-fill chlorite.

234.79	241.59	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	234.79	236.0	1.21	0.008	5	0.25	38	96	B0045509
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An intermediate volcanoclastic unit with moderate deformation and moderate alteration. The clasts in this unit appear to be clasts from the lower basaltic sequence. along with the previously seen rounded intermediate clasts. The basaltic clasts show fine - medium phenocrysts along with amygdaloids of carbonate and silica present. The clasts amygdaloid clasts all appear angular with the intermediate clasts being sub-rounded - rounded. The unit has weak fracture-fill chlorite, moderate pervasive carbonate, moderate patchy carbonate and weak patchy silica. Overall the unit shows 1% disseminated pyrite.

Deformation and alteration start to increase at 241.40 m due to the presence of a quartz vein, where moderate pervasive sericite and moderate pervasive carbonate alteration appear.

The unit has quartz veins.

241.0	241.59					241.0	241.59	0.59	0.407	10	0.5	48	134	B0045516
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Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
241.59	271.62	MV, MAFIC VOLCANIC	AMYGDALOIDAL	FINE	DARK GREY	241.59	242.22	0.63	2.16	8	1.2	23	51	B0045517
Mafic volcanic (amygdaloidal basalt). The unit has small patchy carbonate and silica which is most likely amygdaloids. The groundmass is made of fine grained amphiboles with phenocrysts of quartz, calcite and plagioclase. The unit displays moderate patchy carbonate, moderate patchy chlorite, subtle fracture-fill silica and subtle pervasive sericite. Overall the unit shows 0.5% blebby pyrite, and 0.5% fracture-fill pyrite.						242.22	243.0	0.78	0.712	9	0.25	40	77	B0045518
						243.0	244.0	1	0.013	2.5	0.25	9	84	B0045519
						244.0	245.0	1	0.006	2.5	0.25	7	96	B0045520
The unit has a deformation zone starting in the previous unit at 241.40, showing increased sericite and carbonate alteration. The quartz vein acts as the contact between the IVCL and MV, at 241.59 - 242.22 m. The deformation zone continues until 243.75. The vein shows 0.5% blebby pyrite, 0.5% fracture-fill pyrite, 0.1% disseminated chalcopyrite with strong fracture-fill chlorite, moderate patchy carbonate and weak patchy sericite. The deformation zone around the vein shows 0.5% blebby pyrite, 0.5% disseminated pyrite, strong pervasive sericite, weak fracture-fill chlorite and moderate patchy carbonate alteration. The rest of the unit has few quartz veins, 1-3 cm thick with 0.5% blebby pyrite, weak patchy carbonate and weak fracture-fill chlorite.						245.0	246.0	1	0.0025	2.5	0.25	11	98	B0045521
						246.0	247.0	1	0.0025	2.5	0.25	9	98	B0045522
						268.0	269.0	1	0.007	2.5	0.25	37	140	B0045524
						269.0	269.51	0.51	0.0025	9	0.25	46	163	B0045525
Past 268.35 m we see weak patchy carbonate and subtle patchy silica. From 269.73 to 270.51 there is a quartz vein set with moderate fracture-fill chlorite, moderate patchy carbonate and weak fracture-fill silica. The vein set is 60% vein, 40% host rock. Past the vein set is the same alteration as the previous 268.35 m unit. The vein set has 2% fracture-fill, 0.1% blebby chalcopyrite, 1% disseminated pyrite.						269.51	270.64	1.13	0.07	20	0.25	34	664	B0045526
						270.64	271.62	0.98	0.0025	5	0.25	4	136	B0045527

241.59 - 242.22 : Quartz Vein, Quartz Vein set 80% vein 20% host rock. Strong fracture-fill chlor, moderate patchy carbonate, weak patchy sericite, 0.5% blebby pyrite, 0.5% fracture-fill pyrite, 0.1% disseminated chalcopyrite.

269.73 - 270.51 : Quartz Vein, Qtz - carb - chlor vein set, 60% vein 40% host rock. 2% fracture-fill pyrite, 0.1% blebby chalcopyrite, 1% disseminated pyrite.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
271.62	317.3	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	271.62	273.0	1.38	0.0025	7	0.25	27	155	B0045528
<p>An intermediate volcaniclastic unit with small rounded silica-carbonate amygdaloids and (1-5 cm) angular intermediate clasts. The small silica-carbonate amygdaloids are weakly deformed while usually rounded and 0.1 - 0.5 cm in thickness. The unit shows moderate patchy carbonate, weak patchy silica and moderate fracture-fill chlorite. Overall the unit shows 0.5% disseminated pyrite and 0.5% disseminated pyrite. Mineralization picks up from 282 - 284.06 with 1% blebby pyrite and 0.1% blebby pyrrhotite. Past 290.65 the clasts become finer grained, specifically the qtz-carb clasts become less abundant and smaller in size turning alteration to similar but with weak patchy carbonate..The breccia texture is seen within 297 - 300 m.</p>														
<p>From 284.06 - 285.15 there is a deformation zone with increased mineralization and alteration, with moderate pervasive sericite, weak patchy carbonate, moderate fracture-fill carbonate with pyrite oxidizing and leaching into the fractures. Two quartz veins are present within the deformation zone, 284.06 - 284.11 and 285.07 - 285.09 m. The vein 284.06 - 284.11 shows 2% fracture-fill pyrite, which is oxidizing.</p>														
<p>The vein set from 284.86 - 285.09 shows 5% fracture-fill pyrite within the irregular vein in the set, and 2% fracture-fill pyrite within the regular vein. The set is heavily oxidized. The regular vein runs from 285.07 - 285.09 m while the irregular vein runs from 284.86 - 285.07..</p>														
<p>There are few quartz veins within the unit, (291.32 - 291.34, 291.88 - 291.90, 294.40 - 294.54 and 299.85 - 300.05 m). These all show 2-6% fracture-fill pyrite and 2% rusty pyrite. Each vein also shows minor to moderate amounts of fracture-fill tourmaline.</p>														
<p>From 292.24 - 297 m we see an increase pyrite, 1% blebby pyrite and 1% fracture-fill pyrite. Past this point mineralization in the host rock is down to 0.5% disseminated pyrite.</p>														
<p>From 300 m - 317.93 we have fewer clasts with finer grained alteration, mostly moderate pervasive carbonate, moderate patchy carbonate, weak patchy silica and subtle fracture-fill chlorite. The clasts that are present appear to be mostly altered with carbonate. Within this interval, the unit has 0.5% disseminated pyrite. The quartz vein from 317..23 - 317.3 has strong patchy carbonate, 2% fracture-fill pyrite and 1% blebby pyrite.</p>														
						273.0	274.0	1	0.009	5	0.9	75	112	B0045529
						274.0	275.0	1	0.0025	5	0.25	36	100	B0045530
						275.0	276.0	1	0.0025	5	0.25	39	125	B0045531
						276.0	277.0	1	0.0025	7	0.25	23	118	B0045532
						277.0	278.0	1	0.0025	2.5	0.25	21	84	B0045533
						278.0	279.0	1	0.01	5	0.25	23	135	B0045534
						279.0	280.0	1	0.015	8	0.25	42	120	B0045535
						280.0	281.0	1	0.006	8	0.25	17	120	B0045537
						281.0	282.0	1	0.013	13	0.25	25	93	B0045538
						282.0	283.0	1	0.01	10	0.25	19	134	B0045539
						283.0	283.9	0.9	0.025	17	0.6	59	474	B0045540
						283.9	285.15	1.25	2.51	64	12.8	843		B0045541
						285.15	286.0	0.85	0.011	5	0.25	14	222	B0045542
						286.0	287.0	1	0.008	9	0.25	15	169	B0045543
						287.0	288.0	1	0.014	9	0.25	37	204	B0045544
						288.0	289.0	1	0.007	8	0.25	48	152	B0045545
						289.0	290.0	1	0.007	10	0.5	64	141	B0045546
						290.0	291.0	1	0.013	7	0.25	73	161	B0045548
						291.0	292.0	1	0.037	11	2.2	273	1,510	B0045549
						292.0	293.0	1	0.013	8	0.25	55	178	B0045550
						293.0	294.0	1	0.013	8	1.4	164	315	B0045552
						294.0	295.0	1	0.631	55	23.6	766	8,200	B0045553
						295.0	296.0	1	0.135	60	2.2	206	7,900	B0045554
						296.0	297.0	1	0.009	6	0.25	37	163	B0045555
						297.0	298.0	1	0.011	9	0.25	46	141	B0045556
						298.0	299.0	1	0.01	9	0.25	36	128	B0045557
						299.0	300.15	1.15	1.085	2.5	5.7	157	6,680	B0045558
						300.15	301.0	0.85	0.01	5	0.25	24	142	B0045559
						301.0	302.0	1	0.005	17	0.25	8	122	B0045560
						304.0	305.0	1	0.0025	12	0.25	3	103	B0045561

DRILL LOG REPORT

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	305.0					306.0	306.0	1	0.0025	12	0.25	3	108	B0045563
	306.0					307.0	307.0	1	0.0025	5	0.25	3	106	B0045564
	307.0					308.0	308.0	1	0.0025	12	0.25	2	118	B0045565
	308.0					309.0	309.0	1	0.0025	7	0.25	1	112	B0045566
	309.0					310.0	310.0	1	0.0025	5	0.25	2	97	B0045567
	310.0					311.0	311.0	1	0.0025	9	0.25	3	106	B0045568
	311.0					312.0	312.0	1	0.0025	9	0.25	2	113	B0045569
	312.0					313.0	313.0	1	0.007	6	0.25	2	98	B0045570
	313.0					314.0	314.0	1	0.013	20	0.25	3	99	B0045571
	314.0					315.0	315.0	1	0.0025	7	0.25	4	113	B0045572
	315.0					316.0	316.0	1	0.0025	5	0.25	3	112	B0045573
	316.0					316.5	316.5	0.5	0.999	2.5	1.8	18	187	B0045574
	316.5					317.3	317.3	0.8	0.16	2.5	1.1	113	1,395	B0045576

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
317.3	373.09	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	317.3	318.0	0.7	0.064	2.5	0.5	45	416	B0045577
Intermediate volcanic unit, very fine grained, moderate deformation and alteration (increased in areas around quartz veins and deformation zones). Colour is grey without alteration, darker when finer grained. Before 330 m minor clasts can be seen in host rock, still considering host rock volcanics though due to clasts being sparse and small.														
317.3 - 333.57 moderate patchy carbonate, weak patchy chlorite, weak patchy silica and weak pervasive sericite, fine grained and dark grey. Weak deformation. Area is weakly foliated. Disseminated pyrite 0.5% Most notable quartz veins from 321.82-321.84, 330.39-330.43 and 332.75-332.76 m showing rusty pyrite, 1-3% fracture-fill pyrite, weak - moderate patchy carbonate and weak fracture-fill chlorite.														
333.57 m to 338.86 there is a zone between two major quartz veins, the main alteration is moderate pervasive sericite, weak fracture-fill chlorite, weak patchy carbonate. Area has moderate deformation, grain size is very fine grained and light grey in colour. Disseminated pyrite 0.5% Most notable quartz veins are 338.19 - 338.25, 338.56 - 338.86 m, both show 0.5% blebby pyrite, strong pervasive carbonate alteration and moderate pervasive sericite alteration.														
338.86 - 353.27 we have the same IV unit between 317.3 - 333.57, moderate patchy carbonate, weak patchy chlorite, moderate patchy silica and weak pervasive sericite. Zone ends at a deformation zone. Area is fine grained, grey in colour and weakly foliated. Disseminated pyrite 0.5%, blebby pyrite 0.5%.														
353.27 - 354.62 we have a small deformation zone. Moderate pervasive carbonate, moderate patchy carbonate and weak patchy chlorite alteration. Unit is fine grained, beige-grey in colour and weakly foliated. 1% fracture-fill pyrite, 0.5% disseminated pyrite. Quartz veins from 353.25 - 353.26 and 354.58 - 354.62 show 1-3% blebby pyrite, weak fracture-fill chlorite and weak patchy carbonate.														
354.62 - 355.56 m we see the same IV unit (317.3 - 333.57 m) moderate patchy carbonate, weak patchy chlorite, moderate patchy silica and weak pervasive sericite. Zone shows 0.5% disseminated pyrite.														
355.56 - 357.21 m alteration halos forming around two quartz vein sets. Zone is very fine grained, beige-grey in colour and shows subtle foliations. The zone shows 0.5% blebby pyrite and 0.5% disseminated pyrite. The quartz veins show 0.5% disseminated pyrite, moderate pervasive sericite, and weak fracture-fill chlorite. The unit shows weak patchy carbonate, weak fracture-fill chlorite while the halos show strong pervasive sericite, weak fracture-fill chlorite and weak patchy carbonate.														
357.21 - 373.09 same IV unit as previously seen with moderate - strong patchy carbonate, moderate patchy silica, weak pervasive sericite and subtle fracture-fill chlorite. Overall the unit shows 0.5 % disseminated pyrite. The quartz veins within the unit are 360.45 - 360.70, 368.37 - 368.54, 372.07 - 372.20, 372.33 - 372.36, these quartz veins and sets show moderate fracture-fill chlorite, moderate patchy carbonate, weak pervasive sericite and 1% disseminated pyrite.														
						318.0	319.0	1	0.007	2.5	0.25	9	174	B0045578
						319.0	320.0	1	0.01	2.5	0.25	25	199	B0045579
						320.0	321.0	1	0.144	2.5	1.6	333	5,830	B0045580
						321.0	322.0	1	0.12	2.5	1.7	146	7,780	B0045581
						322.0	323.0	1	0.008	2.5	0.25	18	206	B0045582
						323.0	324.0	1	0.012	2.5	0.25	10	171	B0045583
						324.0	325.0	1	0.012	2.5	0.25	6	149	B0045584
						325.0	326.0	1	0.01	2.5	0.5	6	133	B0045585
						326.0	327.0	1	0.0025	2.5	0.25	4	122	B0045586
						327.0	328.0	1	0.0025	2.5	0.25	4	121	B0045587
						328.0	329.0	1	0.137	2.5	0.5	4	119	B0045589
						329.0	330.0	1	0.0025	2.5	0.25	8	144	B0045590
						330.0	331.0	1	0.009	2.5	0.5	35	188	B0045591
						331.0	332.0	1	0.014	5	0.25	28	203	B0045592
						332.0	333.0	1	0.009	2.5	0.6	29	149	B0045593
						333.0	334.0	1	0.005	8	0.25	32	161	B0045594
						334.0	335.0	1	0.0025	2.5	0.25	43	82	B0045595
						335.0	336.0	1	0.0025	2.5	0.25	37	69	B0045596
						336.0	337.0	1	0.0025	2.5	0.25	31	81	B0045597
						337.0	338.0	1	0.0025	2.5	0.25	33	101	B0045598
						338.0	339.0	1	0.041	2.5	0.25	46	115	B0045599
						339.0	340.0	1	0.008	2.5	0.5	75	153	B0045600
						340.0	341.0	1	0.0025	2.5	0.25	40	98	B0045602
						351.0	352.0	1	0.0025	2.5	0.25	4	98	B0045603
						352.0	353.0	1	0.0025	2.5	0.25	5	107	B0045604
						353.0	354.0	1	1.685	2.5	0.25	8	174	B0045605
						354.0	355.0	1	0.011	2.5	0.25	3	117	B0045606
						355.0	356.0	1	0.75	2.5	0.9	14	118	B0045607
						356.0	357.21	1.21	0.008	2.5	0.25	2	103	B0045608
						357.21	358.0	0.79	0.0025	2.5	0.25	3	131	B0045609

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						358.0	359.0	1	0.0025	2.5	0.25	7	130	B0045610
						359.0	360.0	1	0.008	2.5	0.25	22	118	B0045611
						360.0	361.0	1	0.0025	2.5	0.25	106	125	B0045612
						361.0	362.0	1	0.0025	2.5	0.25	142	124	B0045613
						362.0	363.0	1	0.005	2.5	0.25	129	112	B0045615
						363.0	364.0	1	0.0025	2.5	0.25	10	114	B0045616
						364.0	365.0	1	0.011	2.5	0.25	12	121	B0045617
						365.0	366.0	1	0.021	2.5	0.25	13	138	B0045618
						366.0	367.0	1	0.0025	2.5	0.25	5	138	B0045619
						367.0	368.0	1	0.0025	2.5	0.25	35	142	B0045620
						368.0	369.0	1	0.0025	2.5	0.25	97	133	B0045621
						369.0	370.0	1	0.0025	2.5	0.25	79	132	B0045622
						370.0	371.0	1	0.013	2.5	0.25	187	151	B0045623
						371.0	372.0	1	0.0025	2.5	0.25	48	118	B0045624
						372.0	372.51	0.51	0.005	2.5	0.25	77	154	B0045626
						372.51	373.09	0.58	0.032	9	0.25	64	125	B0045627
373.09	386.96	IVCL, INTERMEDIATE VOLCANICLASTIC	BRECCIA	FINE	BEIGE	373.09	374.0	0.91	0.856	2.5	0.25	30	101	B0045628
An intermediate volcanoclastic unit which has strong deformation and moderate alteration. The unit before 376.63 m shows weak patchy carbonate, weak fracture-fill chlorite and moderate pervasive sericite. The unit is fine grained, grey in colour and moderately deformed, with 0.5% disseminated pyrite. The clasts show a weak foliation and are elongated.						374.0	375.0	1	0.173	2.5	0.25	72	98	B0045629
						375.0	376.0	1	0.007	2.5	0.25	65	102	B0045630
The deformation zone spans from 376.63 - 385.37 m, has strong deformation and strong alteration; the unit is beige - grey in colour from the alteration and fine grained. Alteration is consistent throughout the deformation zone with strong pervasive sericite, moderate patchy carbonate, moderate fracture-fill chlorite and subtle fracture-fill carbonate; the exception of 380.36 - 380.70 and 384.47 - 384.67 show moderate potassic alteration. The zone shows 1% disseminated pyrite, 0.5% fracture-fill pyrite and 0.5% blebby pyrite. The clasts within the zone appear to be both volcanic clasts from surrounding layers and small clasts with potassic alteration, they appear elongate and sub-rounded.						376.0	376.63	0.63	0.006	16	0.25	72	158	B0045631
						376.63	377.91	1.28	0.139	2.5	0.25	159	73	B0045632
						377.91	379.0	1.09	0.009	2.5	0.25	11	91	B0045633
						379.0	380.0	1	0.012	2.5	0.25	5	62	B0045634
						380.0	381.0	1	0.316	2.5	0.25	5	35	B0045635
The quartz veins in the show 373.70 - 373.72, 373.85 - 373.95, 376.57 - 376.63, 377.76 - 377.80, 377.91 - 378.08, 380.70 - 380.92, 382.74 - 382.94, 383.68 - 383.73, and 384.67 - 394.79 show degrees of patchy sericite, fracture-fill chlorite, patchy tourmaline, 0.5 - 3% fracture-fill pyrite and 0.5 - 2% blebby pyrite. The unit also has many small fracture-fill quartz veins and "quartz rafts" similar to irregular quartz veins, all these show a degree of fracture-fill chlorite and 0.5 - 1% fracture-fill pyrite.						381.0	382.0	1	0.136	2.5	0.25	30	85	B0045636
						382.0	383.0	1	0.01	2.5	0.25	116	49	B0045637
						383.0	384.0	1	0.0025	2.5	0.25	60	60	B0045638
						384.0	385.0	1	0.103	2.5	0.25	71	51	B0045639
						385.0	386.0	1	0.014	2.5	0.25	160	73	B0045641
						386.0	386.96	0.96	0.021	2.5	0.25	370	195	B0045642

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
386.96	409	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY	386.96	388.0	1.04	0.0025	2.5	0.25	9	85	B0045643
An intermediate volcanic unit (ash tuff), deformation is found mostly around quartz veins, weakly foliated, very fine grained and light grey - grey in colour. Foliation is defined by silica / carbonate alteration. The unit displays weak patchy silica, weak pervasive carbonate, weak - moderate patchy carbonate and weak patchy chlorite alteration. Overall the unit displays 0.5% disseminated pyrite.						388.0	389.0	1	0.084	2.5	0.25	5	85	B0045644
						389.0	390.0	1	0.0025	2.5	0.25	2	98	B0045645
						390.0	390.9	0.9	0.0025	2.5	0.25	1	104	B0045646
The unit has many irregular quartz vein / vein sets, from 390.91 - 390.97, 391.94 - 392.07, 392.32 - 393.09, 394.29 - 394.4, and 400.33 - 400.4. Of interest would be 392.32 - 393.09, the vein set here has strong deformation and alteration. Strong fracture-fill chlorite, moderate patchy carbonate, moderate iron carbonate alteration and minor fracture-fill tourmaline are present. The vein set shows 2% blebby pyrite, 0.1% blebby chalcopyrite and 1% fracture-fill pyrite.						390.9	391.8	0.9	0.0025	2.5	0.25	1	102	B0045647
						391.8	392.2	0.4	0.0025	2.5	0.25	2	95	B0045648
						392.2	393.15	0.95	0.0025	2.5	0.25	4	66	B0045649
						393.15	394.0	0.85	0.0025	2.5	0.25	1	95	B0045650
						394.0	395.0	1	0.0025	2.5	0.25	1	92	B0045651
						395.0	396.0	1	0.0025	2.5	0.25	1	83	B0045652
						396.0	397.0	1	0.0025	2.5	0.25	2	91	B0045654
						397.0	398.0	1	0.0025	2.5	0.25	1	82	B0045655
						398.0	399.0	1	0.005	2.5	0.25	4	87	B0045656
						399.0	400.0	1	0.0025	2.5	0.25	4	99	B0045657
						400.0	401.0	1	0.0025	2.5	0.25	1	91	B0045658
409	428.25	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	410.0	411.0	1	0.019	2.5	0.25	80	89	B0045659
An intermediate volcanoclastic unit with moderate deformation, foliation defined by clasts + silica / carbonate alteration, fine grained, and light grey - grey in colour. Clasts are sub-rounded and intermediate in composition. Unit displays moderate fracture-fill chlorite, strong patchy carbonate, weak patchy silica, weak pervasive carbonate alteration. Carbonate alteration alters both clasts and host rock equally. Overall the unit has 1% disseminated pyrite, 0.5 % fracture-fill pyrite and 0.1% disseminated chalcopyrite. The mineralization appears more frequently in and around fracture-fill chlorite alteration.						411.0	412.0	1	0.0025	2.5	0.25	44	104	B0045660
						412.0	413.0	1	0.007	2.5	0.25	56	89	B0045661
						413.0	413.6	0.6	0.056	2.5	0.25	126	93	B0045662
Quartz veins in unit are rare, with stringer veins from 0.5 - 1 cm appearing closer to the contact of the QFP. Area of note is 413.82 - 414.15 showing moderate fracture-fill chlorite, moderate patchy carbonate, weak pervasive sericite and moderate fracture-fill tourmaline. The vein shows 0.5% fracture-fill pyrite and has a small alteration halo of moderate pervasive sericite 10 cm beyond the upper and lower contacts of the vein.						413.6	414.2	0.6	0.544	2.5	0.25	33	73	B0045663
						414.2	415.0	0.8	0.579	9	0.25	90	71	B0045664
						415.0	416.0	1	0.01	2.5	0.25	71	71	B0045665
With proximity to the contact of the IVCL / QFP, large chunks of QFP can be found within the IVCL, leading to an undulating contact.						416.0	417.0	1	0.057	33	0.8	208	99	B0045667
						417.0	418.0	1	0.017	2.5	0.6	80	105	B0045668
413.82 - 414.15 : Quartz Vein, Irregular quartz vein set, 90% vein, 10% host rock, shows 0.5% fracture-fill pyrite and moderate amounts of tourmaline.						418.0	419.0	1	0.0025	2.5	0.25	8	94	B0045670
						426.0	427.0	1	0.006	2.5	0.25	71	103	B0045671
						427.0	427.6	0.6	0.0025	2.5	0.25	9	55	B0045672
						427.6	428.25	0.65	0.01	2.5	0.25	38	169	B0045673

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
428.25	455.87	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	CREAM	428.25	429.0	0.75	0.037	5	0.25	15	93	B0045674
<p>QFP unit with weak deformation, weak alteration, medium grain size, and cream in colour. The unit has porphyritic plagioclase / quartz grains which are largely unaltered. Alteration includes weak pervasive potassic, subtle fracture-fill chlorite and weak patchy carbonate alteration. Overall the unit shows 0.5% blebby pyrite and 0.5% disseminated pyrite.</p>														
						429.0	430.0	1	0.0025	2.5	0.25	15	149	B0045675
						430.0	431.0	1	0.053	2.5	0.25	7	39	B0045676
						431.0	432.0	1	0.073	2.5	0.25	10	34	B0045677
<p>The unit is littered with stringer veins and small quartz veins showing fracture-fill chlorite and 1-2% fracture-fill pyrite. NOTABLE AREA runs from 447.07 - 448.04; this area shows moderate fracture-fill chlorite, moderate pervasive sericite, weak patchy potassic and weak patchy carbonate alteration; also shows 3% blebby pyrite and 1% fracture-fill pyrite. Unit is rather blocky, with multiple areas being impossible to put together. Lower contact of QFP is bound by a similar quartz vein seen in 447.07 - 448.04 but is too blocky to document in the QFP but continues into the IVCL unit.</p>														
						437.0	438.0	1	0.161	2.5	0.25	11	38	B0045678
						438.0	439.0	1	0.391	2.5	0.25	12	37	B0045680
						439.0	440.0	1	0.358	2.5	0.25	9	36	B0045681
						440.0	441.0	1	0.911	2.5	0.25	14	35	B0045682
						441.0	442.05	1.05	0.556	2.5	0.25	12	32	B0045683
						442.05	442.95	0.9	0.217	2.5	0.25	10	32	B0045684
						442.95	444.0	1.05	0.526	2.5	0.25	14	34	B0045685
						444.0	445.0	1	0.361	2.5	0.25	11	31	B0045686
						445.0	446.0	1	1.135	2.5	0.5	12	30	B0045687
						446.0	446.9	0.9	2.77	2.5	0.25	7	30	B0045688
						446.9	447.4	0.5	1.405	2.5	0.25	8	63	B0045689
						447.4	448.1	0.7	1.83	2.5	0.5	10	53	B0045690
						448.1	449.0	0.9	0.019	2.5	0.25	4	23	B0045691
						449.0	450.0	1	0.011	2.5	0.25	6	22	B0045693
						450.0	451.0	1	0.094	2.5	0.25	5	19	B0045694
						451.0	452.0	1	0.006	2.5	0.25	3	20	B0045695
						452.0	453.0	1	0.101	2.5	0.25	12	24	B0045696
						453.0	454.0	1	0.1	2.5	0.25	6	20	B0045697
						454.0	455.0	1	0.015	2.5	0.25	6	21	B0045698
						455.0	455.8	0.8	0.007	2.5	0.25	4	21	B0045699
						455.8	456.5	0.7	1.055	8	0.25	10	75	B0045700

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample	
455.87	458.56	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	455.8	456.5	0.7	1.055	8	0.25	10	75	B0045700	
		Intermediate volcanoclastic unit, shows moderate - strong deformation, fine grain size, and light grey in colour. The deformation increase with proximity to contact of QFP. This unit displays moderate fracture-fill chlorite, moderate patchy carbonate and weak patchy silica. Clasts are generally 1-4 cm, sub-rounded to angular, intermediate in composition and altered with patchy carbonate. Alteration, grain size and deformation change at 458.56 so the unit becomes an IV unit. NOTABLE AREA is 455.87 - 456.36 m; this zone shows 3% blebby pyrite, 1% fracture-fill pyrite, strong fracture-fill chlorite, moderate patchy carbonate, weak patchy silica and weak pervasive sericite. Area is similar to zone within QFP, 447.07 - 448.04 m. Overall this unit shows 0.5% fracture-fill and 0.5% blebby pyrite.				456.5	457.25	0.75	0.061	2.5	0.25	8	73	B0045701	
							457.25	458.0	0.75	0.0025	2.5	0.25	22	91	B0045702
							458.0	458.56	0.56	0.01	2.5	0.25	36	101	B0045704

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
458.56	526.36	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	458.56	459.5	0.94	0.105	2.5	0.25	16	119	B0045705
From 495 m onwards, this may have been considered a IVCL unit.														
An intermediate volcanic unit, unit has weak - slightly moderate deformation, fine grained, grey - light grey (with increased alteration) and is weakly foliated. The unit has small areas where "Clasts" can be observed but it is not notable enough to break out in a separate unit. Alteration and mineralization changes through the unit but only in intensity.														
From 458.56 - 464 we see, moderate patchy carbonate, weak fracture-fill chlorite, weak pervasive sericite and shows 0.5% disseminated pyrite and 0.5% fracture-fill pyrite. Fine grained, light grey unit similar to previous IV unit at 386.96 - 409														
From 464 - 484 has weak patchy carbonate, weak pervasive carbonate, weak pervasive sericite. The unit becomes finer grained and darker grey. Overall this unit shows 0.5% disseminated pyrite and 0.5% blebby pyrite..														
From 471 - 474 we see a slight increase in moderate pervasive sericite and carbonate. The unit shows fine-grained magnetite which causes the rock to be mildly magnetic.														
484 -495 has weak patchy chlorite, weak fracture-fill carbonate, weak patchy carbonate and subtle patchy silica. The unit has 1% disseminated pyrite and 0.5% fracture-fill pyrite, some of the pyrite appears to be rusted. The unit is darker grey than previous units and is very fine grained. This unit may be close to a mafic volcanic unit. From 489 - 490.37 we see an increased amount of carbonate and sericite alteration; moderate pervasive carbonate, moderate fracture-fill carbonate, and weak pervasive sericite.														
From 495 - 526.36 volcanics with moderate patchy carbonate, subtle fracture-fill chlorite, moderate pervasive sericite and weak pervasive carbonate. The unit has minor clasts within it but are sparse and not separated as a unit. The unit is fine grained, light grey (due to alteration) and weakly foliated. Fine-grained magnetite is present within the unit, making the unit weakly magnetic. This unit shows 1% disseminated pyrite, 0.5% blebby pyrite and 0.25% of the total pyrite is rusty.														
This unit has many quartz veins, most are stringers between 0.1 - 0.5 cm with minor patchy carbonate and 0.1 - 0.5% blebby pyrite. Many veins are 2-5 thick and show moderate fracture-fill chlorite, moderate patchy carbonate and minor amounts of tourmaline; they also show 1-2% blebby pyrite and 0.5% blebby pyrite within their margins.														
468.12 - 468.43 : Quartz Vein, Qtz-carb-chlor vein set, 70% rock, 30% vein. 2% blebby pyrite within quartz vein and margins / host rock														
						474.0	475.0	1	0.0025	2.5	0.25	42	93	B0045725
						475.0	476.0	1	0.0025	2.5	0.25	20	80	B0045726
						476.0	476.7	0.7	0.061	2.5	0.25	9	65	B0045727
						476.7	477.3	0.6	0.0025	2.5	0.25	36	67	B0045728
						477.3	478.0	0.7	0.078	5	0.25	33	69	B0045729
						478.0	479.0	1	0.0025	2.5	0.25	28	72	B0045730
						479.0	480.0	1	0.015	7	0.25	36	80	B0045732
						480.0	481.0	1	0.047	2.5	0.25	31	78	B0045733
						481.0	482.0	1	0.011	2.5	0.25	27	83	B0045734
						482.0	482.5	0.5	0.019	2.5	0.25	15	82	B0045735
						482.5	483.1	0.6	0.026	2.5	0.25	12	91	B0045736
						483.1	484.0	0.9	0.0025	2.5	0.25	11	72	B0045737
						484.0	485.1	1.1	0.391	2.5	0.25	22	57	B0045738

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	485.1					486.0	486.0	0.9	0.0025	2.5	0.25	6	70	B0045739
	486.0					487.0	487.0	1	0.059	2.5	0.25	3	82	B0045740
	487.0					488.0	488.0	1	0.006	2.5	0.25	26	96	B0045741
	488.0					489.0	489.0	1	0.137	2.5	0.25	47	86	B0045742
	489.0					490.0	490.0	1	0.0025	2.5	0.25	19	64	B0045743
	490.0					491.0	491.0	1	0.006	2.5	0.25	9	102	B0045745
	491.0					491.5	491.5	0.5	0.044	2.5	0.25	4	101	B0045746
	491.5					492.5	492.5	1	0.0025	2.5	0.25	13	91	B0045747
	492.5					493.25	493.25	0.75	0.452	2.5	0.25	8	93	B0045748
	493.25					494.3	494.3	1.05	0.0025	2.5	0.25	2	102	B0045749
	494.3					495.0	495.0	0.7	0.963	2.5	0.25	5	79	B0045750
	495.0					496.0	496.0	1	0.133	2.5	0.25	15	99	B0045751
	496.0					496.7	496.7	0.7	0.122	2.5	0.25	36	78	B0045752
	496.7					497.2	497.2	0.5	0.359	2.5	0.25	43	72	B0045753
	497.2					498.0	498.0	0.8	0.0025	2.5	0.25	26	91	B0045754
	498.0					499.0	499.0	1	0.022	2.5	0.25	34	76	B0045755
	499.0					499.5	499.5	0.5	1.63	7	0.25	31	66	B0045756
	499.5					500.3	500.3	0.8	0.024	2.5	0.25	22	82	B0045758
	500.3					501.0	501.0	0.7	0.008	2.5	0.25	26	94	B0045759
	501.0					502.0	502.0	1	0.007	2.5	0.25	18	94	B0045760
	502.0					502.6	502.6	0.6	0.0025	2.5	0.25	19	77	B0045761
	502.6					503.6	503.6	1	0.025	2.5	0.25	25	88	B0045762
	511.9					512.5	512.5	0.6	0.012	2.5	0.25	4	78	B0045763
	512.5					513.1	513.1	0.6	0.0025	2.5	0.25	2	79	B0045764
	513.1					513.7	513.7	0.6	0.006	5	0.25	2	71	B0045765
	517.0					517.82	517.82	0.82	0.0025	2.5	0.25	5	82	B0045766
	517.82					518.32	518.32	0.5	0.238	2.5	0.25	19	86	B0045767
	518.32					518.8	518.8	0.48	0.0025	2.5	0.25	18	73	B0045768
	518.8					519.3	519.3	0.5	0.046	2.5	0.25	5	72	B0045769
	522.0					523.0	523.0	1	0.0025	2.5	0.25	4	98	B0045771
	523.0					524.0	524.0	1	0.243	2.5	0.25	5	73	B0045772

DRILL LOG REPORT

Project: Van Horne										Hole Number: VH20-002				
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						524.0	525.0	1	0.126	2.5	0.25	6	83	B0045773
						525.0	525.75	0.75	0.02	2.5	0.25	9	84	B0045774
						525.75	526.36	0.61	0.767	2.5	0.25	21	61	B0045775

Project: Van Horne						Hole Number: VH20-002								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
526.36	546.67	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	BEIGE	526.36	526.95	0.59	0.282	2.5	0.25	2	24	B0045776
QFP unit that is weakly deformed, weakly altered, porphyritic quartz and feldspar grains present. Unit has minor IV beds (probably left over from being intruded by QFP., contacts are sharp).Unit has weak patchy carbonate, subtle pervasive potassic, weak fracture-fill chlorite and subtle pervasive sericite alteration. Unit overall has 2% fracture-fill pyrite, 1% disseminated pyrite.						526.95	527.5	0.55	0.366	2.5	0.25	2	22	B0045777
Unit has many large quartz veins, many 0.5 - 1 cm Qtz-carb stringers and 3 notable areas. Most quartz veins show 1-3% blebby pyrite, Qtz-carb-chlor-tour alteration and are 1-3 cm thick. Most stringers show Qtz-carb alteration 0.5 - 1 cm thick and show 0.5% - 2% fracture-fill pyrite.						527.5	528.0	0.5	1.22	8	0.25	3	24	B0045778
						528.0	528.5	0.5	18	24	3.1	8	35	B0045779
NOTABLE AREAS: 526.36 - 526.42 shows the contact between the IV and QFP unit and shows 4% fracture-fill pyrite and 2% blebby pyrite along with several quartz veins. 528.06 - 528.33 shows a small IV unit with a stockwork vein set and 8% blebby pyrite, 3% fracture-fill pyrite, 2% disseminated pyrite. 541.45 - 541.73 m shows 2% disseminated pyrite, 1% fracture-fill pyrite with a quartz stockwork vein Qtz-seric-carb-tour-chlor.						528.5	529.0	0.5	0.196	2.5	0.25	3	24	B0045780
526.361 - 527.13 : Quartz Vein, Quartz Vein set, 90% host rock, 10% vein. Qtz-carb-chlor-tour. 2-5% disseminated pyrite, 0.1% blebby chalcopyrite.						529.0	529.5	0.5	0.201	2.5	0.25	7	24	B0045782
						529.5	530.0	0.5	0.286	2.5	0.25	0.5	21	B0045783
528.38 - 530.22 : Quartz Vein, Quartz vein set, 90% host rock, 10% vein. Qtz-carb-chlor-tour, 0.5 - 2% blebby pyrite, 1-2 % fracture-fill pyrite. average angle taken, 42 - 45 alpha, 21 Beta.1-3 cm thick.						530.0	530.6	0.6	0.213	2.5	0.25	3	15	B0045784
						530.6	531.1	0.5	0.369	2.5	0.25	6	28	B0045786
531.33 - 532.2 : Quartz Vein, Quartz Vein set, 5% vein, 95% host rock. Qtz-carb-seri-tour, 0.5% blebby pyrite. 2-4 cm thick.						531.1	532.0	0.9	0.269	2.5	0.25	13	26	B0045787
						532.0	533.0	1	0.136	2.5	0.25	9	29	B0045788
543.5 - 546.49 : Quartz Vein, Quartz Vein set, 12 veins (95% host rock, 5% quartz veins) averaged alpha angle and beta angle, 1% blebby pyrite, 0.5% fracture-fill pyrite throughout veins, average alteration Qtz-carb-chlor-seric + minor patchy tourmaline.						533.0	534.0	1	0.347	2.5	0.25	9	30	B0045789
						534.0	534.64	0.64	0.828	2.5	0.25	13	44	B0045790
						534.64	535.69	1.05	1.5	2.5	0.25	16	51	B0045791
						535.69	536.2	0.51	0.27	2.5	0.25	21	39	B0045792
						536.2	537.0	0.8	0.189	2.5	0.25	11	40	B0045793
						537.0	538.0	1	0.308	2.5	0.25	10	38	B0045794
						538.0	539.0	1	0.119	2.5	0.25	5	32	B0045795
						539.0	540.0	1	0.289	5	0.7	4	30	B0045797
						540.0	541.0	1	0.353	2.5	0.25	6	30	B0045798
						541.0	541.5	0.5	2.03	2.5	1.4	8	28	B0045799
						541.5	542.0	0.5	0.52	2.5	0.25	8	39	B0045800
						542.0	542.75	0.75	0.177	2.5	0.25	15	38	B0045801
						542.75	543.35	0.6	0.452	2.5	0.25	2	23	B0045802
						543.35	544.0	0.65	0.091	2.5	0.25	8	31	B0045803
						544.0	544.5	0.5	0.086	2.5	0.25	9	35	B0045804
						544.5	545.0	0.5	0.333	2.5	0.25	9	34	B0045805
						545.0	545.5	0.5	0.178	2.5	0.25	7	33	B0045806
						545.5	546.0	0.5	0.221	2.5	0.25	8	29	B0045807
						546.0	546.67	0.67	0.455	2.5	0.25	4	22	B0045808

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
546.67	631	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	546.67	547.27	0.6	0.042	2.5	0.25	21	70	B0045810
Intermediate volcanic unit with varying amounts of alteration, weak - moderate deformation, mostly fine grained and grey in colour. Unit is weakly foliated, shown by alteration.						547.27	548.33	1.06	0.394	2.5	0.6	6	75	B0045811
Contact with the QFP is sharp, alteration from 546.67 - 554.15 shows moderate - strong patchy carbonate, weak fracture-fill chlorite, moderate pervasive sericite and weak patchy silica. Unit is light grey, fine grained and weakly foliated. Unit shows 1% blebby pyrite and 0.5% fracture-fill pyrite. NOTABLE AREA: from 553.28 - 553.35 m we have two small veins showing Qtz-carb-chlor with 4% blebby pyrite, 0.5% fracture-fill pyrite and 0.1% visible gold.						548.33	549.0	0.67	0.0025	5	0.25	9	70	B0045812
						549.0	549.6	0.6	0.576	2.5	0.5	61	70	B0045813
						549.6	550.25	0.65	0.358	2.5	0.25	25	64	B0045814
554.15 - 592.4 m the unit is fine grained, grey, the texture is mostly massive with some slight brecciation in areas. The alteration within the unit is moderate patchy carbonate, weak fracture-fill chlorite and weak patchy silica. Overall the unit shows 1% disseminated pyrite, 0.5% blebby pyrite. Brecciated areas show slightly more mineralization. This unit has some 1-4 cm quartz veins and multiple stringer veins, showing 0.5 - 2% blebby pyrite and Qtz-carb-chlor alteration. Stringers generally show Qtz-carb, with 0.1 - 0.5% fracture-fill pyrite. From 592 - 592.4 we see a small area of brecciation with 4% disseminated pyrite. No notable areas.						550.25	551.0	0.75	1.52	2.5	0.5	6	73	B0045815
						551.0	551.5	0.5	0.309	2.5	0.5	5	71	B0045816
						551.5	552.0	0.5	0.835	2.5	0.25	4	77	B0045817
						552.0	552.5	0.5	0.312	2.5	0.6	4	79	B0045818
592.4 - 604.28 m we have a unit which is dark grey, very fine grained, which might be classified as a mafic unit. The unit has subtle deformation and weak alteration, and is massive. The unit displays weak pervasive carbonate, weak fracture-fill carbonate, weak fracture-fill silica and weak pervasive chlorite alteration. Overall the unit shows 1% disseminated pyrite and 0.5% fracture-fill pyrite. From 600 - 601 m the unit increases alteration and mineralization; moderate fracture-fill silica, moderate pervasive carbonate, 3% fracture-fill pyrite, 1% disseminated pyrite, 0.5% blebby pyrite.						552.5	553.02	0.52	3.34	8	1	8	86	B0045819
						553.02	553.5	0.48	5.05	10	1.2	9	268	B0045820
						553.5	554.0	0.5	0.512	2.5	0.25	6	180	B0045822
604.28 - 631 m the unit is a very fine grained IV unit, similar to 554.15 - 592.4 m. The unit is grey, weakly deformed, weakly altered. The unit displays weak patchy silica, moderate pervasive carbonate, weak fracture-fill silica and weak fracture-fill chlorite. Overall the unit has 1% disseminated pyrite, 0.5% fracture-fill pyrite and 0.5% blebby pyrite.						554.0	554.5	0.5	0.544	2.5	0.25	4	123	B0045823
						554.5	555.0	0.5	0.019	2.5	0.25	7	95	B0045824
						555.0	555.5	0.5	0.017	2.5	0.25	6	90	B0045825
548.24 - 552.64 : Quartz Vein, Quartz Vein set, (95% host rock, 5% vein, 7 veins). Qtz-carb-chlor-tour, 1-6 % blebby pyrite, 0.5 - 2% fracture-fill pyrite.						555.5	556.0	0.5	0.011	6	0.25	7	89	B0045827
						556.0	556.5	0.5	1.61	2.5	1.1	14	77	B0045828
						556.5	557.0	0.5	0.005	2.5	0.25	16	94	B0045829
						557.0	558.0	1	0.0025	2.5	0.5	6	80	B0045830
						558.0	559.0	1	0.0025	2.5	0.25	6	84	B0045831
						559.0	560.0	1	0.0025	5	0.25	6	79	B0045832
						560.0	561.0	1	0.007	2.5	0.5	6	72	B0045833
						561.0	562.0	1	0.005	2.5	0.25	6	78	B0045834
						562.0	563.0	1	0.048	2.5	0.25	7	84	B0045836
						563.0	564.0	1	0.009	2.5	0.6	13	82	B0045837
						564.0	565.0	1	0.026	5	0.5	6	56	B0045838
						565.0	565.5	0.5	0.232	2.5	0.25	9	81	B0045839
						565.5	566.5	1	0.0025	5	0.25	7	78	B0045840
						570.5	571.0	0.5	0.0025	2.5	0.25	6	123	B0045841
						571.0	571.5	0.5	0.0025	2.5	0.25	7	125	B0045842
						571.5	572.15	0.65	0.742	2.5	0.8	3	75	B0045843

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	572.15	573.0		0.85		0.007	2.5	0.25	5	104				B0045844
	577.0	578.0		1		0.021	2.5	0.25	37	81				B0045845
	578.0	578.6		0.6		0.026	2.5	0.7	83	144				B0045846
	578.6	579.2		0.6		0.032	2.5	1	88	218				B0045847
	579.2	580.0		0.8		0.026	16	0.25	33	105				B0045849
	580.0	581.0		1		0.011	2.5	0.6	42	108				B0045850
	581.0	582.0		1		0.006	2.5	0.25	45	93				B0045851
	582.0	583.0		1		0.0025	5	0.25	50	153				B0045852
	583.0	584.0		1		0.0025	9	0.25	36	143				B0045853
	584.0	585.0		1		0.0025	2.5	0.25	10	142				B0045854
	585.0	586.0		1		0.0025	2.5	0.25	8	136				B0045855
	586.0	587.0		1		0.0025	2.5	0.6	33	137				B0045856
	587.0	588.0		1		0.0025	2.5	0.25	40	137				B0045857
	588.0	589.0		1		0.0025	9	0.25	51	131				B0045858
	589.0	590.0		1		0.0025	2.5	0.25	16	140				B0045860
	590.0	591.0		1		0.01	2.5	0.25	9	180				B0045861
	591.0	592.0		1		0.009	2.5	0.25	41	207				B0045862
	592.0	593.0		1		0.641	16	2.9	368	4,440				B0045863
	593.0	594.0		1		0.31	2.5	0.25	40	90				B0045864
	594.0	595.0		1		0.0025	2.5	0.25	27	81				B0045865
	595.0	596.0		1		0.0025	2.5	0.25	34	99				B0045866
	596.0	597.0		1		0.0025	2.5	0.25	39	94				B0045867
	597.0	598.0		1		0.0025	2.5	0.25	48	94				B0045868
	598.0	599.15		1.15		0.0025	2.5	0.25	14	101				B0045869
	599.15	600.0		0.85		0.006	2.5	0.25	27	71				B0045870
	600.0	601.0		1		1.81	5	0.25	12	79				B0045871
	601.0	602.0		1		0.099	2.5	0.25	16	146				B0045872
	602.0	603.0		1		0.0025	2.5	0.25	2	122				B0045873
	603.0	604.0		1		0.014	2.5	0.25	25	274				B0045875
	604.0	605.0		1		0.024	2.5	0.25	80	233				B0045876
	605.0	606.1		1.1		0.018	2.5	0.25	18	206				B0045877

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						606.1	607.0	0.9	0.041	2.5	0.25	12	128	B0045878
						607.0	607.5	0.5	0.029	2.5	0.25	28	82	B0045879
						607.5	608.0	0.5	0.011	2.5	0.25	39	73	B0045880
						608.0	609.0	1	0.008	2.5	0.25	36	61	B0045881
						609.0	610.0	1	0.006	2.5	0.25	27	60	B0045882
						610.0	610.7	0.7	0.0025	2.5	0.25	17	64	B0045883
						610.7	611.5	0.8	0.006	2.5	0.25	52	57	B0045884
						611.5	612.5	1	0.007	2.5	0.25	41	63	B0045885
						617.0	617.5	0.5	0.006	2.5	0.25	72	92	B0045886
						617.5	618.0	0.5	0.02	2.5	0.25	110	88	B0045888
						618.0	618.5	0.5	0.0025	2.5	0.25	10	59	B0045889
631	649.72	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	645.0	646.0	1	0.0025	2.5	0.25	0.5	120	B0045890
An intermediate volcanoclastic unit with moderate deformation, moderate - strong alteration, fine grain size, light grey in colour and moderately foliated. The unit has small sub-rounded - rounded clasts (1-3 cm in diameter) and shows some areas which look like a volcanic unit. The unit displays moderate-strong patchy carbonate, moderate pervasive carbonate, weak patchy chlorite and moderate patchy silica alteration. Overall the unit has 0.1% blebby pyrite and 0.5% disseminated pyrite.						646.0	647.0	1	0.0025	2.5	0.25	1	109	B0045891
						647.0	648.0	1	0.0025	2.5	0.25	3	121	B0045892
						648.0	649.0	1	0.0025	2.5	0.25	3	135	B0045893
The unit has few small quartz veins, most stringers are 0.1 - 0.5 cm and show moderate fracture-fill carbonate alteration. No notable veins or areas, most veins have 0 - 0.5% fracture-fill pyrite. Most pyrite seen in the unit was from 646.91 - 646.93 m, with 2% fracture-fill pyrite around a 2 cm quartz vein.						649.0	649.72	0.72	0.0025	2.5	0.25	4	131	B0045894
649.72	656.62	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	649.72	651.0	1.28	0.0025	2.5	0.25	4	122	B0045895
Small intermediate volcanic unit which is very fine grained, grey in colour, massive in texture and has weak. The unit appears to be heavily fractured / blocky with large areas from 651 - 655 being completely fractured. Alteration displayed within the unit include weak patchy carbonate, moderate pervasive carbonate and weak patchy chlorite. minor magnetite is present within the unit, causing weak magnetism, the unit is also weakly foliated. From 655 - 656.25, the unit shows weak pervasive epidote, strong pervasive sericite and weak fracture-fill chlorite. Overall the unit shows 1% blebby pyrite and 0.1% fracture-fill pyrite.						651.0	652.0	1	0.0025	2.5	0.25	4	138	B0045896
						652.0	653.0	1	0.0025	2.5	0.25	4	151	B0045897
						653.0	654.0	1	0.0025	2.5	0.25	5	147	B0045898
The unit has few quartz veins, 0.5 - 2 cm , most showing qtz-carb-seric alteration and 0.5 - 1% blebby pyrite. No areas of notable mineralization.						654.0	655.0	1	0.0025	2.5	0.25	20	135	B0045899
						655.0	656.0	1	0.0025	6	0.25	7	142	B0045901
						656.0	656.62	0.62	0.0025	2.5	0.25	2	134	B0045902

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
656.62	698.2	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	656.62	657.5	0.88	0.0025	2.5	0.25	3	120	B0045904
An intermediate volcaniclastic unit with weak - moderate deformation, moderate alteration, is fine grained and light grey in colour. The unit has different kinds of clasts, from angular intermediate to round silica clasts.						657.5	658.25	0.75	0.0025	2.5	0.25	4	136	B0045905
From 656.62 - 663.15 the unit is moderately foliated, shows angular - sub-rounded clasts (1-4 cm clasts) and shows moderate deformation. The unit shows moderate fracture-fill chlorite, moderate pervasive sericite, weak patchy carbonate and weak fracture-fill silica. The unit has few large veins, most showing qtz-carb-chlor-tour with 1-2% fracture-fill pyrite and 1% blebby pyrite. Notable area from 660.21 - 660.71 m showing qtz-carb-chlor-tour-seric with 60% vein / 40% host rock and 4% fracture-fill pyrite, 0.5% blebby pyrite. The unit shows 1% blebby pyrite and 1% disseminated pyrite.						658.25	659.0	0.75	0.005	2.5	0.25	62	124	B0045906
						659.0	660.0	1	0.0025	2.5	0.25	34	145	B0045907
						660.0	661.0	1	0.136	7	0.25	69	183	B0045908
						661.0	662.0	1	0.0025	2.5	0.25	33	118	B0045909
663.15 - 664.73 small deformation zone within the IVCL unit, showing moderate deformation and strong alteration. Strong pervasive sericite, weak patchy chlorite and moderate pervasive carbonate is present. The unit has 4 large quartz veins with qtz-carb-tour-chlor alteration, showing 1-4 % blebby pyrite, 1-3% fracture-fill pyrite, 1% disseminated pyrite and 1% blebby chalcopyrite within the quartz margins. This whole area is a notable zone. Overall the unit shows 2% blebby pyrite, 1% fracture-fill pyrite and 1% disseminated pyrite.						662.0	663.0	1	0.03	2.5	0.25	53	130	B0045910
						663.0	663.5	0.5	2.57	19	0.25	10	72	B0045911
						663.5	664.1	0.6	2.37	23	0.25	14	64	B0045912
664.73 - 698.2 m. this unit shows sub-rounded to rounded silica clasts and intermediate composition clasts. The unit has moderate pervasive sericite, moderate patchy carbonate and weak fracture-fill chlorite. The unit has a weak brecciated texture and is also moderately foliated. The unit has 0.5 % blebby pyrite, 1% fracture-fill pyrite and 1% disseminated pyrite. The unit has few quartz veins, 1-5 cm in width, qtz-carb-chlor-tour and show 0.5 - 2% blebby pyrite, 0.5% fracture-fill pyrite. Past 690.65 the clasts become smaller and the breccia texture becomes more apparent. The unit starts to transition to an IV unit. NOTABLE AREA, the entire area is a notable area, showing good mineralization, alteration and deformation.						664.1	664.5	0.4	0.345	19	0.25	8	71	B0045914
						664.5	665.0	0.5	0.568	9	0.25	4	77	B0045915
						665.0	665.5	0.5	0.054	6	0.25	8	141	B0045916
						665.5	666.0	0.5	0.02	2.5	0.25	7	117	B0045917
660.21 - 660.71 : Quartz Vein, Quartz vein set, 60% vein, 40% host rock, 4% fracture-fill pyrite, 0.5% blebby pyrite. Qtz-carb-chlor-tour-seric alteration						666.0	666.5	0.5	0.0025	2.5	0.25	5	108	B0045918
						666.5	667.0	0.5	0.15	2.5	0.25	13	126	B0045919
670.28 - 671.59 : Quartz Vein, Quartz vein set made up of three veins, (2.1.2cms), qtz-carb in comp,						667.0	667.5	0.5	0.974	20	0.25	4	75	B0045920
						667.5	668.0	0.5	0.007	2.5	0.25	6	129	B0045921
696.24 - 696.63 : Quartz Vein, vein set made up of three 1 cm qtz-carb veins						668.0	668.5	0.5	0.0025	2.5	0.25	6	119	B0045922
						668.5	669.0	0.5	0.007	2.5	0.25	6	116	B0045923
						669.0	669.5	0.5	0.006	6	0.25	5	143	B0045924
						669.5	670.0	0.5	0.043	8	0.25	6	143	B0045925
						670.0	670.5	0.5	2.03	24	0.5	2	84	B0045927
						670.5	671.0	0.5	1.8	8	0.25	7	151	B0045928
						671.0	671.5	0.5	0.542	7	0.25	6	137	B0045929
						671.5	672.0	0.5	0.162	11	0.25	9	101	B0045930
						672.0	673.0	1	0.008	5	0.25	4	101	B0045931
						673.0	674.0	1	0.0025	6	0.25	4	121	B0045932
						674.0	675.0	1	0.016	2.5	0.25	2	154	B0045933
						675.0	676.0	1	0.0025	2.5	0.25	3	155	B0045934
						676.0	676.5	0.5	0.05	2.5	0.25	8	144	B0045935
						676.5	677.0	0.5	2.75	5	0.7	5	82	B0045936

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						677.0	678.0	1	0.011	2.5	0.25	4	164	B0045938
						678.0	679.0	1	0.005	2.5	0.25	4	176	B0045939
						679.0	680.0	1	0.026	2.5	0.25	6	228	B0045940
						680.0	681.0	1	0.021	10	0.6	5	160	B0045941
						681.0	682.0	1	0.0025	2.5	0.25	3	177	B0045942
						682.0	683.0	1	0.0025	2.5	0.25	4	168	B0045943
						683.0	683.5	0.5	0.015	5	0.5	4	151	B0045944
						683.5	684.0	0.5	0.013	2.5	0.25	4	155	B0045945
						684.0	685.0	1	0.0025	2.5	0.25	3	149	B0045946
						685.0	686.0	1	0.0025	2.5	0.25	10	174	B0045947
						686.0	687.0	1	0.0025	2.5	0.25	7	174	B0045948
						687.0	688.0	1	0.0025	2.5	0.25	11	168	B0045949
						688.0	689.0	1	0.0025	2.5	0.25	10	174	B0045950
						689.0	690.0	1	0.0025	2.5	0.25	6	153	B0045951
						690.0	691.0	1	0.0025	2.5	0.25	9	150	B0045953
						691.0	692.0	1	0.0025	2.5	0.25	20	142	B0045954
						692.0	693.0	1	0.0025	2.5	0.25	63	134	B0045955
						693.0	694.0	1	0.012	2.5	0.8	182	136	B0045956
						694.0	695.0	1	0.007	2.5	0.25	10	146	B0045957
						695.0	696.0	1	0.0025	2.5	0.25	13	169	B0045959
						696.0	697.0	1	0.037	2.5	0.25	42	133	B0045960
						697.0	698.2	1.2	0.0025	2.5	0.25	30	148	B0045961
698.2	703.22	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	698.2	698.6	0.4	0.482	2.5	0.25	104	118	B0045962
An intermediate volcanic unit between two IVCL units, showing moderate deformation, is very fine grained, has a light grey - grey colour and shows a massive texture with small patches of brecciation throughout the unit. Weak patchy carbonate, weak fracture-fill carbonate, weak patchy chlorite and moderate pervasive sericite alteration is seen within the unit. The unit overall shows 0.5% disseminated pyrite.						698.6	699.0	0.4	0.007	2.5	0.25	77	154	B0045963
The unit has few large veins, the veins show good amounts of tourmaline in some and qtz-carb-chlor alteration in most veins. The veins show 0 - 1% blebby pyrite and 0.1 - 1% disseminated pyrite within the vein margins.						699.0	700.0	1	0.0025	2.5	0.25	97	169	B0045964
						700.0	700.5	0.5	0.005	6	0.25	102	215	B0045966
						700.5	701.0	0.5	0.0025	2.5	0.25	18	126	B0045967
						701.0	701.5	0.5	0.011	6	0.5	98	104	B0045968
						701.5	702.0	0.5	0.368	2.5	0.25	77	122	B0045969
						702.0	703.21	1.21	0.0025	2.5	0.25	101	131	B0045970
						703.21	704.0	0.79	0.011	2.5	0.25	113	147	B0045971

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
703.22	733.46	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	703.21	704.0	0.79	0.011	2.5	0.25	113	147	B0045971
<p>An intermediate volcaniclastic unit which is light grey, fine grained, shows moderate deformation and is moderately foliated. The clasts are sub-rounded to rounded, (1-3 cm) and some may be amygdaloids. The clasts composition are carbonate and silica clasts, which have become slightly elongated. As we approach the lower contact of the IVCL and the upper contact of the IV at 733.46, clasts become sparse and alteration becomes less intense. Past 729 m we start to see far less clasts and far less alteration. The unit displays moderate patchy carbonate, moderate patchy silica, moderate pervasive sericite and weak fracture-fill chlorite (minor amounts of breccia texture are present). Alteration and deformation intensify surrounding certain quartz veins. Overall, the unit has 1% disseminated pyrite, 1% blebby pyrite and 0.5% fracture-fill pyrite.</p>														
<p>The unit displays large quartz veins and minor stringers. Most large quartz veins are 2-5 cm thick and display 1-4% blebby pyrite, 1% fracture-fill pyrite and 0.1% blebby chalcopyrite. NOTABLE areas include 704.11 - 704.52, and 728.13 - 728.46.</p>														
<p>704.11 - 704.52 shows a small deformation zone surrounding a quartz vein, the vein shows 2% blebby pyrite, 1% disseminated pyrite and 0.5% blebby chalcopyrite. The unit also shows strong pervasive sericite, weak fracture-fill chlorite and moderate patchy carbonate.</p>														
<p>728.13 - 728.46 show 3% blebby pyrite, 2% disseminated pyrite and 0.5% blebby chalcopyrite. The unit also shows strong pervasive sericite, moderate patchy carbonate and weak fracture-fill chlorite.</p>														
<p>704.0 - 704.52 : Quartz Vein, Irregular vein zone made up of 3 veins, two of them being 1cm thick qtz veins and one being a 9cm wide irregular qtz-carb-py vein. zone is made up of 60% strongly altered wallrock and 40% veins.</p>														
						704.0	704.6	0.6	0.615	11	0.8	81	128	B0045972
						704.6	705.2	0.6	0.008	2.5	0.25	74	186	B0045973
						705.2	706.0	0.8	0.0025	2.5	0.25	70	171	B0045974
						706.0	707.0	1	0.01	2.5	0.9	195	196	B0045975
						707.0	707.5	0.5	0.01	2.5	1	121	190	B0045976
						707.5	708.0	0.5	0.007	2.5	0.25	81	187	B0045977
						708.0	708.5	0.5	0.008	2.5	0.25	87	197	B0045979
						708.5	709.0	0.5	0.009	2.5	0.25	87	244	B0045980
						709.0	710.0	1	0.051	2.5	0.25	64	211	B0045981
						710.0	710.5	0.5	6.32	2.5	1	71	197	B0045982
						710.5	711.0	0.5	0.039	2.5	0.25	59	214	B0045983
						711.0	711.5	0.5	0.087	2.5	0.25	72	220	B0045984
						711.5	712.0	0.5	3.58	2.5	2.2	88	195	B0045985
						712.0	713.0	1	0.023	2.5	0.25	70	219	B0045986
						713.0	713.6	0.6	5.63	2.5	2	64	234	B0045987
						713.6	714.4	0.8	0.04	2.5	0.25	63	213	B0045988
						714.4	715.0	0.6	0.452	2.5	0.25	58	211	B0045989
						715.0	715.5	0.5	1.315	2.5	0.25	67	232	B0045990
						715.5	716.0	0.5	3.26	2.5	1	91	220	B0045992
						716.0	716.5	0.5	0.348	2.5	0.25	68	335	B0045993
						716.5	717.0	0.5	0.91	2.5	0.25	52	234	B0045994
						717.0	717.5	0.5	0.46	2.5	0.25	60	242	B0045995
						717.5	718.0	0.5	1.185	2.5	0.25	59	283	B0045996
						718.0	718.6	0.6	0.479	2.5	0.25	42	232	B0045997
						718.6	719.3	0.7	0.047	2.5	0.25	29	247	B0045998
						719.3	720.0	0.7	0.009	2.5	0.25	27	263	B0045999
						720.0	720.5	0.5	0.01	2.5	0.25	19	239	B0046000
						720.5	721.0	0.5	0.061	2.5	0.25	19	233	B0046001
						721.0	721.5	0.5	0.01	2.5	0.25	16	246	B0046002
						721.5	722.0	0.5	0.106	2.5	0.25	18	232	B0046003

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	722.0					722.5	722.5	0.5	0.065	2.5	0.25	12	239	B0046005
	722.5					723.0	723.0	0.5	0.019	2.5	0.25	11	256	B0046006
	723.0					723.5	723.5	0.5	0.017	2.5	0.25	15	292	B0046007
	723.5					724.0	724.0	0.5	0.558	2.5	0.25	31	236	B0046008
	724.0					724.5	724.5	0.5	0.008	2.5	0.25	29	243	B0046009
	724.5					725.0	725.0	0.5	0.006	2.5	0.25	28	235	B0046010
	725.0					725.5	725.5	0.5	0.031	2.5	0.25	100	259	B0046011
	725.5					726.0	726.0	0.5	6.36	2.5	2.9	171	213	B0046012
	726.0					726.5	726.5	0.5	0.032	2.5	0.25	115	259	B0046013
	726.5					727.5	727.5	1	1.6	2.5	1.4	76	325	B0046014
	727.5					728.0	728.0	0.5	0.052	2.5	0.25	57	307	B0046016
	728.0					728.5	728.5	0.5	3.86	2.5	1.2	15	215	B0046017
	728.5					729.0	729.0	0.5	0.036	2.5	0.25	12	298	B0046018
	729.0					729.5	729.5	0.5	0.037	2.5	0.25	14	338	B0046020
	729.5					730.0	730.0	0.5	1.72	2.5	1.4	17	300	B0046021
	730.0					730.5	730.5	0.5	0.009	2.5	0.25	30	362	B0046022
	730.5					731.0	731.0	0.5	0.012	2.5	0.25	45	517	B0046023
	731.0					732.0	732.0	1	0.01	2.5	0.25	44	441	B0046024
	732.0					733.0	733.0	1	0.016	2.5	0.25	87	217	B0046025
	733.0					733.45	733.45	0.45	0.021	2.5	0.25	103	181	B0046026
	733.45					734.0	734.0	0.55	0.015	2.5	0.6	87	196	B0046027

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
733.46	750.2	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	LIGHT GREY	733.45	734.0	0.55	0.015	2.5	0.6	87	196	B0046027
Light grey, fine grained, weak to moderate deformed, Intermediate Volcs. Unit displays pervasive strong Sil alteration. 2 to 3% diss py mineralization with localized areas around 745m display swaths of 8% py in what looks to be a contact between two volcanic units. low density of veins in unit, notable qtz vein from 735.95-736. Upper and lower contact is gradational, some portions of unit look to display faint clasts														
						734.0	735.0	1	0.0025	2.5	0.25	28	78	B0046028
						735.0	736.0	1	0.0025	2.5	0.25	9	78	B0046029
						736.0	737.0	1	0.008	8	0.25	9	92	B0046031
						737.0	737.5	0.5	0.0025	2.5	0.25	8	119	B0046032
						737.5	738.1	0.6	0.035	5	0.25	16	152	B0046033
						738.1	739.0	0.9	0.024	2.5	0.25	8	107	B0046034
						739.0	739.9	0.9	0.016	8	0.25	22	119	B0046035
						739.9	740.4	0.5	0.224	27	0.7	125	2,390	B0046036
						740.4	741.0	0.6	0.006	2.5	0.25	34	142	B0046037
						741.0	742.0	1	0.007	2.5	0.25	45	125	B0046038
						742.0	743.0	1	0.016	5	0.25	35	102	B0046039
						743.0	744.0	1	0.008	2.5	0.25	14	118	B0046040
						744.0	744.8	0.8	0.011	5	0.25	22	152	B0046041
						744.8	745.7	0.9	2.89	236	4.1	196	490	B0046042
						745.7	746.4	0.7	0.007	2.5	0.25	19	248	B0046044
						746.4	747.0	0.6	0.08	2.5	0.25	34	176	B0046045
						747.0	748.0	1	0.009	8	0.25	45	149	B0046046
						748.0	749.0	1	0.0025	2.5	0.25	15	148	B0046047
						749.0	750.2	1.2	0.0025	2.5	0.25	10	143	B0046048
750.2	755.45	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	750.2	751.0	0.8	0.0025	2.5	0.25	5	143	B0046049
fine grained IVCL, varying clast size, high abundance, all clasts are elongated displaying varying levels of alteration and look to vary in composition. foliation is strongly pervasive. no notable structures, upper contact is gradational lower contact is sharp														
						754.5	755.45	0.95	0.005	2.5	0.25	70	206	B0046050

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
755.45	761.54	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	GREY	755.45	756.5	1.05	0.007	2.5	0.25	41	427	B0046051
fine grained, grey volcanic unit with irregular-gradational upper and lower contacts. spotty carb alteration, Qtz-carb-py vein set occurring from 756.99-760.64m, made up of six veins ranging from 5cm to 1cm in width, some of these veins are altered, all display py min. healed hairline fractures throughout unit.						756.5	757.1	0.6	0.008	2.5	0.25	48	986	B0046052
						757.1	757.6	0.5	0.016	2.5	0.7	82	7,270	B0046053
						757.6	758.15	0.55	0.07	2.5	0.25	22	293	B0046054
						758.15	758.7	0.55	0.008	2.5	0.25	70	794	B0046055
						758.7	759.3	0.6	0.0025	2.5	0.25	87	467	B0046057
						759.3	760.0	0.7	0.0025	2.5	0.25	35	204	B0046058
						760.0	760.7	0.7	0.017	2.5	1.2	323	195	B0046059
						760.7	761.54	0.84	0.0025	2.5	0.25	24	237	B0046060

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
761.54	796.63	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	761.54	762.55	1.01	0.005	2.5	0.25	12	201	B0046061
Intermediate Volcaniclastic unit with varying texture. Upper portion of unit displays abundant unaltered clasts of varying size. Second portion of unit from 767.20-777 is finer grained, more altered and displays a low abundance clasts and hosts more structures including four qtz-carb-tor veins averaging 5cm in width (most notable: 768.65-768.74, 770.10-770.19, 775.92-776.03m), this portion of the unit displays 1% py, the lower portion of the unit from 777-796.63m has a moderate abundance of clasts that display more deformation than the clasts seen in the top of the unit. mineralization increases to 1-2% from 779.15-784m. Mineralization throughout unit occurs diss as varying grains sizes of euhedral pyrite.						762.55	763.0	0.45	0.009	2.5	0.25	13	176	B0046062
						763.0	763.5	0.5	0.011	2.5	0.25	9	153	B0046063
						763.5	764.0	0.5	0.008	2.5	0.25	5	157	B0046064
						764.0	765.0	1	0.008	2.5	0.25	6	166	B0046065
790.62 - 792.14 : Quartz Vein, qtz vein set made up of three 1cm qtz-carb veins						765.0	766.0	1	0.011	2.5	0.25	21	173	B0046066
						766.0	767.0	1	0.011	2.5	0.25	38	222	B0046067
						767.0	768.0	1	0.005	2.5	0.25	6	162	B0046068
						768.0	768.6	0.6	0.079	2.5	0.25	22	144	B0046070
						768.6	769.1	0.5	2.33	2.5	0.25	22	81	B0046071
						769.1	769.6	0.5	0.008	2.5	0.25	2	126	B0046072
						769.6	770.25	0.65	0.548	2.5	0.25	3	88	B0046073
						770.25	770.75	0.5	0.038	2.5	0.25	0.5	117	B0046074
						770.75	771.25	0.5	0.251	2.5	0.25	1	110	B0046075
						771.25	772.0	0.75	0.0025	2.5	0.25	9	133	B0046076
						772.0	773.0	1	0.0025	2.5	0.25	12	121	B0046077
						773.0	773.75	0.75	0.006	2.5	0.25	17	135	B0046078
						773.75	774.25	0.5	5.39	2.5	0.25	17	86	B0046079
						774.25	775.0	0.75	0.005	2.5	0.25	17	149	B0046080
						775.0	775.75	0.75	0.005	2.5	0.25	11	148	B0046081
						775.75	776.25	0.5	0.13	6	0.25	35	168	B0046083
						776.25	777.0	0.75	0.02	2.5	0.8	105	183	B0046084
						777.0	778.0	1	0.007	2.5	0.25	28	144	B0046085
						778.0	779.0	1	0.01	2.5	0.25	69	149	B0046086
						779.0	779.5	0.5	0.009	2.5	0.25	72	168	B0046087
						779.5	780.0	0.5	1.27	2.5	0.5	78	110	B0046088
						780.0	781.0	1	0.013	2.5	0.25	69	149	B0046089
						781.0	782.0	1	0.006	2.5	0.25	28	201	B0046090
						782.0	783.0	1	0.0025	2.5	0.25	17	177	B0046091
						783.0	784.0	1	0.0025	2.5	0.25	63	164	B0046092
						784.0	785.0	1	0.011	2.5	0.25	101	188	B0046094

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Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	785.0					786.0	786.0	1	0.009	2.5	0.25	89	196	B0046095
	786.0					786.75	786.75	0.75	0.072	2.5	0.25	74	162	B0046096
	786.75					787.25	787.25	0.5	1.225	2.5	0.7	80	154	B0046097
	787.25					788.0	788.0	0.75	0.053	2.5	0.5	73	159	B0046098
	788.0					789.0	789.0	1	0.018	2.5	0.25	69	188	B0046099
	789.0					790.0	790.0	1	0.009	2.5	0.25	60	179	B0046100
	790.0					791.0	791.0	1	0.018	2.5	0.25	100	188	B0046101
	791.0					791.5	791.5	0.5	0.013	2.5	0.25	68	186	B0046102
	791.5					792.5	792.5	1	0.085	5	0.6	126	206	B0046103
	792.5					793.0	793.0	0.5	0.012	2.5	0.25	64	229	B0046104
	793.0					794.0	794.0	1	0.02	2.5	0.25	62	215	B0046105
	794.0					795.0	795.0	1	0.023	2.5	0.25	101	226	B0046106
	795.0					795.5	795.5	0.5	0.031	2.5	0.7	128	268	B0046107
	795.5					796.0	796.0	0.5	0.023	2.5	0.25	50	246	B0046109
	796.0					796.63	796.63	0.63	0.021	2.5	0.25	86	292	B0046110

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
796.63	834.03	IV, INTERMEDIATE VOLCANIC	AMYGDALOIDAL	VERY FINE	DARK GREY	796.63	797.5	0.87	0.007	2.5	0.25	42	206	B0046111
very fine grained, dark grey, intermediate volcanic unit. The upper portion of this unit displays altered lapilli which are weakly altered and deformed, this unit also displays amygdaloidal texture from 807.5-810.5m these amygdals range in size and are moderate in abundance, A high volume of qtz veins can be seen from 811-820m in this interval there are roughly 20 qtz veins averaging 2cm in width with the largest being 20cm wide (817m), These veins vary slightly in composition and deformation level with some displaying 3% py. These veins occur in a strongly silicified portion of the unit which displays 1-3% disseminated and fracture fill py. The lowest portion of this unit 820-834.03m varies in grain size from very fine to fine grained with a moderate abundance of healed irregular fractures and <0.5cm veins, this subunit has an increase in mineralization occurring as localized wisps and fracture filling of tarnished py in high concentrations (2-5%). Carbonate-ser alteration in this unit looks to be moderate which is an increase from the previous sub-units, Gradational upper contact and irregular lower contact.						797.5	798.0	0.5	0.365	2.5	0.25	82	104	B0046112
						798.0	799.0	1	0.013	2.5	0.25	47	136	B0046113
						799.0	800.0	1	0.007	2.5	0.25	18	112	B0046114
						800.0	801.0	1	0.006	2.5	0.25	19	132	B0046115
						801.0	802.0	1	0.115	2.5	0.25	19	126	B0046116
						802.0	803.0	1	0.008	2.5	0.25	17	148	B0046117
811.02 - 812.03 : Quartz Vein, vein set made up of four qtz-carb-tour-py veins from 1cm to 6cm in width. 1% py mineralizing along margins and in proximal wallrock						803.0	804.0	1	0.795	6	0.25	15	127	B0046118
						804.0	805.0	1	0.151	2.5	3.1	946	267	B0046119
815.0 - 816.77 : Quartz Vein, vein set made up of five veins 2-3cm in width, qtz-carb-tor-py, 2% py along margins and in proximal wallrock.						805.0	805.5	0.5	0.136	2.5	1.8	408	254	B0046120
						805.5	806.2	0.7	0.0025	2.5	0.25	24	193	B0046122
816.77 - 817.24 : Quartz Vein, vein set made up of a 18cm , 1cm vein and a slightly irregular 6cm qtz-carb-tor-ser-py veins 5% py ocuring as blebs and in fractures near veins.						806.2	806.7	0.5	0.04	2.5	0.25	16	168	B0046123
						806.7	807.5	0.8	0.386	7	0.25	27	131	B0046124
817.34 - 817.74 : Quartz Vein, vein set made up of three 1cm qtz-carb veins						807.5	808.2	0.7	0.069	2.5	0.25	22	137	B0046125
						808.2	809.0	0.8	0.005	2.5	0.25	17	149	B0046126
						809.0	810.0	1	0.014	2.5	0.25	27	147	B0046127
						810.0	810.7	0.7	0.007	2.5	0.25	17	155	B0046128
						810.7	811.2	0.5	0.26	2.5	0.25	24	157	B0046129
						811.2	811.7	0.5	1.885	2.5	0.25	41	202	B0046130
						811.7	812.2	0.5	2.18	2.5	0.8	32	180	B0046131
						812.2	813.0	0.8	0.06	2.5	0.25	25	153	B0046132
						813.0	813.7	0.7	0.008	2.5	0.25	28	125	B0046133
						813.7	814.3	0.6	0.285	8	0.25	35	103	B0046135
						814.3	814.8	0.5	0.014	2.5	0.25	27	151	B0046136
						814.8	815.3	0.5	0.108	2.5	0.25	16	154	B0046138
						815.3	815.8	0.5	0.076	2.5	0.25	24	170	B0046139
						815.8	816.2	0.4	0.038	19	0.25	32	256	B0046140
						816.2	816.75	0.55	0.139	15	0.25	25	176	B0046141
						816.75	817.25	0.5	0.621	18	0.25	19	160	B0046142
						817.25	817.75	0.5	0.145	2.5	0.25	36	317	B0046143
						817.75	818.5	0.75	0.014	5	0.25	35	375	B0046144

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						818.5	819.0	0.5	0.0025	2.5	0.25	27	401	B0046145
						819.0	819.5	0.5	0.042	2.5	0.25	53	319	B0046146
						819.5	820.0	0.5	0.0025	2.5	0.25	22	401	B0046148
						820.0	821.0	1	0.0025	6	0.25	20	437	B0046149
						821.0	821.7	0.7	0.081	2.5	0.5	130	3,010	B0046150
						821.7	822.4	0.7	0.045	5	0.5	235	4,230	B0046151
						822.4	823.0	0.6	0.022	2.5	0.25	54	755	B0046152
						823.0	824.0	1	0.008	2.5	0.25	21	677	B0046153
						824.0	825.0	1	0.0025	2.5	0.25	11	410	B0046154
						825.0	825.5	0.5	0.237	2.5	3.7	393		B0046155
						825.5	826.0	0.5	0.048	2.5	1	188	3,810	B0046156
						826.0	826.6	0.6	0.068	2.5	1.2	171	3,830	B0046157
						826.6	827.4	0.8	0.325	5	0.25	113	1,980	B0046158
						827.4	828.0	0.6	0.052	2.5	0.25	37	302	B0046159
						828.0	828.5	0.5	0.009	2.5	0.25	20	300	B0046161
834.03	835.94	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY									
IVCL unit with varying clast size, composition and abundance. unit is weakly foliated with clasts weakly aligned and elongated. unit displays 0.5% py occurring along foliation and dis. lower contact is gradational														
835.94	846	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	DARK GREY	838.0	839.0	1	0.01	2.5	0.25	29	215	B0046162
Similar to IV unit from 796.63-834.03m. texture is irregular due to patchy chl,carb alteration, varying lapilli size with a low density. foliation displayed in localized areas. 0.5% py disseminated with 841-841.15m displaying 5% rusted py min along an altered qtz-carb vein.														
						839.0	840.0	1	0.006	2.5	0.25	17	217	B0046163
						840.0	840.9	0.9	0.01	2.5	0.25	28	442	B0046164
						840.9	841.3	0.4	0.282	2.5	8.3	221		B0046165
						841.3	842.0	0.7	0.008	2.5	0.25	22	535	B0046166
						842.0	843.0	1	0.009	2.5	0.25	60	389	B0046167
						843.0	843.7	0.7	0.03	2.5	1.2	378	1,595	B0046168
						843.7	844.2	0.5	0.08	2.5	2.4	301	2,110	B0046169
						844.2	845.0	0.8	0.864	2.5	1.6	220	608	B0046170
						845.0	845.87	0.87	0.01	2.5	0.25	42	392	B0046172
						845.87	847.0	1.13	0.02	2.5	0.25	112	249	B0046173

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
846	850.77	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	GREEN-GREY	845.87	847.0	1.13	0.02	2.5	0.25	112	249	B0046173
Similar to IVCL at IVCL unit with varying clast size, composition and abundance. unit is weakly foliated with clasts weakly aligned and elongated. unit displays 0.5% py occurring along foliation and dis. lower contact is gradational						847.0	848.0	1	0.129	2.5	0.25	84	238	B0046174
						848.0	849.0	1	0.015	2.5	0.25	103	236	B0046175
						849.0	850.0	1	0.0025	2.5	0.25	77	283	B0046176
						850.0	850.77	0.77	0.025	2.5	0.5	131	459	B0046177
850.77	854.85	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	DARK GREY	850.77	851.6	0.83	0.009	2.5	0.5	90	291	B0046178
Similar to IV at 835.94 and 796.63m, fine grained with portions displaying weak to moderate foliation. 1% py as blebs aligned with foliation.						851.6	852.4	0.8	0.009	2.5	0.25	110	235	B0046179
						852.4	853.0	0.6	0.014	2.5	0.25	93	217	B0046180
						853.0	854.0	1	0.006	2.5	0.25	66	190	B0046181
						854.0	854.85	0.85	0.01	2.5	0.25	44	206	B0046182
854.85	857.82	MI, MAFIC INTRUSIVE	MASSIVE	VERY FINE	DARK GREY	854.85	856.0	1.15	0.007	2.5	0.25	48	169	B0046183
Fine grained, black portion of unit from 854.95 to 857.82m possible intrusion? moderate abundance of sharp occasionally cross cutting qtz-carb veins. Sharp lower and upper contacts						856.0	857.0	1	0.008	2.5	0.25	45	128	B0046184
						857.0	858.08	1.08	0.011	2.5	0.25	53	193	B0046185

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Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
857.82	874.19	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	857.0	858.08	1.08	0.011	2.5	0.25	53	193	B0046185
Similar to IV at 835.94 and 796.63m, massive sulphides 80% py-cpy-po (could possibly just be altered py) from 867.4-867.6m. Mineralization throughout unit occurring in fractures 2% py. Portion of unit displaying weak clasts in low abundance from 860.68 to 863.39m. Lower contact occurs with irregular qtz-carb veins 873.71-874.19m this interval displays 3% py along fractures and along vein margins.						858.08	859.0	0.92	0.011	2.5	0.25	58	299	B0046187
						859.0	860.0	1	0.015	2.5	0.25	90	455	B0046188
						860.0	861.0	1	0.222	2.5	0.5	137	669	B0046189
873.71 - 874.19 : Quartz Vein, irregular vein set made up of 3 veins 2cm qtz-carb veins with 2% py in proximal wallrock						861.0	862.0	1	0.011	2.5	0.25	116	234	B0046190
						862.0	863.0	1	0.012	2.5	0.25	119	163	B0046191
						863.0	864.0	1	0.013	2.5	0.25	99	194	B0046193
						864.0	865.0	1	0.019	2.5	0.25	71	224	B0046194
						865.0	866.0	1	0.025	2.5	0.25	55	375	B0046195
						866.0	867.0	1	0.034	2.5	0.25	48	563	B0046196
						867.0	868.0	1	1.295	398	50.5	700		B0046197
						868.0	869.0	1	0.744	2.5	1.9	172	1,210	B0046198
						869.0	870.0	1	0.029	2.5	0.25	57	501	B0046200
						870.0	871.0	1	0.061	9	1.1	178	667	B0046201
						871.0	872.0	1	0.005	2.5	0.25	41	404	B0046202
						872.0	873.0	1	0.068	2.5	0.6	59	551	B0046203
						873.0	873.71	0.71	0.211	2.5	0.25	26	660	B0046204
						873.71	874.19	0.48	0.455	2.5	0.5	109	466	B0046205
874.19	899.91	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY	874.19	875.0	0.81	0.008	2.5	0.25	9	270	B0046206
IVCL, light grey to green in colour due to hazy carb-ser alteration that is semi-pervasive. Ground mass displays strong pervasive foliation. Moderate to low abundance of angular clasts which all seem to be of the same composition and are not altered by the same "hazy" carb-ser alteration. Occasional <1cm qtz-carb veins, Rare py clusters mineralization in unit <1% and abundance increases around select qtz veins. Sharp upper and lower contacts.						875.0	876.0	1	0.0025	2.5	0.25	6	160	B0046207
						890.5	891.0	0.5	0.008	2.5	0.25	18	173	B0046208
						891.0	891.6	0.6	0.112	2.5	0.25	21	150	B0046209
						891.6	892.0	0.4	0.009	2.5	0.25	23	167	B0046210
						899.0	899.91	0.91	0.029	2.5	0.25	9	191	B0046211
899.91	906.91	QFP, Quartz-Feldspar Porphyry	MASSIVE	MEDIUM	RED-BROWN	899.91	901.0	1.09	0.078	2.5	0.25	7	27	B0046213
QFP with sharp upper contact, colour changes from brown to light brown to pink in some areas, irregular qtz veins <2cm throughout some with tourmaline and low % of py. spotty hem alteration throughout unit at a weak to moderate intensity.						901.0	902.0	1	0.095	2.5	0.25	9	28	B0046214
						902.0	903.0	1	0.608	2.5	0.25	8	32	B0046215
						903.0	904.0	1	0.416	2.5	0.25	10	31	B0046216
						904.0	905.0	1	0.365	2.5	0.25	3	25	B0046217
						905.0	906.0	1	0.276	2.5	0.25	5	26	B0046218
						906.0	906.91	0.91	0.337	2.5	0.25	10	33	B0046219

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
906.91	925.5	IV, INTERMEDIATE VOLCANIC	AMYGDALOIDAL	VERY FINE	DARK GREY	906.91	907.5	0.59	1.725	2.5	0.5	77	226	B0046220
Intermediate volcanic unit with varying texture, alteration and grain size. unit displays occasional swaths of chl altered portions in sequence with similar sized intervals displaying moderate density of sil-carb altered lapilli, both displaying similar foliation orientation. Silica alteration increases to strong at 915 until the end of the unit. Unit is blocky and broken throughout. Unit hosts multiple qtz veins 4-6cm in width displaying 1-3% py occurring in veins and in proximal wallrock (918.10-918.17m, 919.34-919.40m, 925.09-925.15m). Unit also displays low abundance of fracture-fill carb veins. Lower and upper contacts are sharp.														
						907.5	908.0	0.5	5.96	2.5	2	30	225	B0046221
						908.0	909.0	1	0.055	2.5	0.6	205	221	B0046222
						909.0	909.5	0.5	0.983	2.5	0.25	89	297	B0046223
						909.5	910.0	0.5	0.027	2.5	0.25	96	176	B0046224
						910.0	911.0	1	0.037	2.5	0.25	35	190	B0046226
						911.0	912.0	1	0.005	2.5	0.25	25	189	B0046227
						912.0	913.0	1	0.006	2.5	0.25	27	212	B0046228
						913.0	914.0	1	0.0025	2.5	0.25	12	208	B0046229
						914.0	915.0	1	0.052	2.5	0.25	21	142	B0046230
						915.0	915.5	0.5	0.176	2.5	0.25	11	82	B0046231
						915.5	916.2	0.7	0.113	2.5	0.25	4	64	B0046232
						916.2	917.0	0.8	0.273	2.5	0.25	5	68	B0046233
						917.0	918.0	1	0.0025	2.5	0.25	1	72	B0046234
						918.0	918.5	0.5	0.343	2.5	0.25	5	710	B0046235
						918.5	919.0	0.5	0.0025	2.5	0.25	3	85	B0046236
						919.0	919.5	0.5	2.39	9	0.25	31	60	B0046237
						919.5	920.0	0.5	0.035	2.5	0.25	7	90	B0046239
						920.0	921.0	1	1.315	2.5	0.25	32	125	B0046240
						921.0	922.0	1	0.008	2.5	0.25	46	219	B0046241
						922.0	923.0	1	0.0025	2.5	0.25	13	218	B0046242
						923.0	924.0	1	0.253	2.5	0.25	10	188	B0046243
						924.0	924.8	0.8	0.076	2.5	0.25	6	210	B0046244
						924.8	925.5	0.7	1.18	2.5	0.9	42	229	B0046245

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Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
925.5	932.41	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	GREY	925.5	926.0	0.5	0.263	2.5	0.25	21	36	B0046246
QFP predominately grey in colour with red colour appearing near fractures and veins. Unit is blocky and broken throughout, upper and lower contacts are sharp. Unit displays three Qtz veins: 925.66-925.75m 9cm Qtz-Carb-chl 2% py vein, 927.08-927.11m 2cm Qtz-carb 2% py, 931.57-931.6m 4cm Qtz-carb vein						926.0	927.0	1	0.283	2.5	0.25	10	38	B0046247
						927.0	928.0	1	0.29	2.5	0.25	14	35	B0046248
						928.0	929.0	1	0.612	2.5	0.25	10	36	B0046250
						929.0	930.0	1	0.007	2.5	0.25	15	38	B0046251
						930.0	931.0	1	0.099	2.5	0.25	13	46	B0046252
						931.0	932.0	1	0.02	2.5	0.25	15	40	B0046254
						932.0	932.41	0.41	0.039	2.5	0.25	13	32	B0046255
932.41	940.16	IV, INTERMEDIATE VOLCANIC	AMYGDALOIDAL	VERY FINE	DARK GREY	932.41	933.2	0.79	0.038	2.5	0.25	128	194	B0046256
very fine grained intermediate volcanic, displaying lapilli which are possibly amygdals. Unit is blocky and broken throughout. Alteration through unit is inconsistent, some areas displaying patchy moderate to strong silica alteration, with other areas displaying an increase in what appears to be chl alteration along hairline fractures this alteration intensifies with proximity to qfp below, Carb alteration occurs throughout as moderate and increases to strong in localized areas. Slightly irregular 13cm Qtz-carb-chl vein from 939.04-939.17m with irregular offshoots to 938.90m.						933.2	934.0	0.8	0.0025	2.5	0.25	10	156	B0046257
						934.0	935.0	1	0.0025	2.5	0.25	7	153	B0046258
						935.0	936.0	1	0.0025	2.5	0.25	4	157	B0046259
						936.0	937.0	1	0.0025	2.5	0.25	5	109	B0046260
						937.0	938.0	1	0.0025	2.5	0.25	25	95	B0046261
						938.0	938.8	0.8	0.0025	2.5	0.25	10	40	B0046262
						938.8	939.5	0.7	0.0025	2.5	0.25	8	34	B0046263
						939.5	940.16	0.66	0.0025	7	0.25	24	100	B0046265
940.16	940.83	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	940.16	940.83	0.67	0.0025	2.5	0.25	19	40	B0046266
Small QFP with sharp upper and lower contacts, no major structures, occasional carb filled fractures.														

Project: Van Horne

Hole Number: VH20-002

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample	
940.83	955	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	GREY	940.83	942.0	1.17	0.005	2.5	0.25	43	190	B0046267	
IVCL with strong pervasive foliation throughout defined by elongated clasts, clast size vary but majority are small, composition also varies but all are elongated- most seem to be carb altered. Portion of unit (946.95-947.11m) lacks clasts and appears volcanic, possibly a intrusion. Unit displays rare veins majority occurring in the 946.95-947.11m interval. Localised areas displaying 0.5% py.															
						942.0	943.0	1	0.015	2.5	0.25	50	165	B0046268	
						943.0	944.0	1	0.483	2.5	0.25	31	181	B0046269	
						944.0	945.0	1	0.184	2.5	0.25	19	178	B0046270	
						945.0	946.0	1	0.015	2.5	0.25	9	186	B0046271	
						946.0	946.75	0.75	0.063	2.5	0.25	7	322	B0046272	
						946.75	947.3	0.55	0.036	2.5	0.25	10	399	B0046273	
						947.3	948.0	0.7	0.014	2.5	0.25	11	347	B0046274	
						948.0	949.0	1	0.009	2.5	0.25	12	139	B0046275	
						949.0	950.0	1	0.014	2.5	0.25	11	132	B0046276	
						950.0	951.0	1	0.031	2.5	0.25	9	139	B0046278	
						951.0	952.0	1	0.009	2.5	0.25	18	134	B0046279	
						952.0	953.0	1	0.006	2.5	0.25	23	130	B0046280	
						953.0	954.0	1	0.024	2.5	0.25	36	153	B0046281	
						954.0	955.0	1	0.014	2.5	0.25	62	157	B0046282	

Project: Van Horne

Hole Number: VH20-003

Drill Hole

Prospect: VH-GLATZ
Year: 2020
Hole Size: NQ
Orient: ACT III
Hole Status: COMPLETE
Operator: KGC EXPLORATION
Geologist: PERCY CLARK
Casing Depth: 12
EOH: 816
Logged Depth: 816

Drilling

Start Date: Mar-02-2020
End Date: Mar-10-2020
Drill Company: Major Drilling

Coordinates

Survey Method: HANDHELD GPS
Grid: NAD83 / UTM zone 15N
Easting: 505,476
Northing: 5,508,558
Elevation: 382

Comments: VG seen at 113.1 - 113.11, visible gold left in box (portion of sample with VG left in box).

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	11.69	OB, OVERBURDEN												

11.69 12 OB, OVERBURDEN

Boulders

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
12	34.08	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	MEDIUM	GREEN-GREY	20.0	20.6	0.6	0.0025	2.5	0.25	75	104	B0046283
Welded texture made up of ground mass and clasts of varying size and composition. Clasts range from 0.5-4cm and are round and often angular. Unit displays stronger ser-carb alteration from 20.93-34.08m Unit's deformation level is weak to moderate in localized areas. Mineralization in this unit is limit to areas proximal to the qtz-carb veins hosted by unit 1-2% py diss. Notable veins in unit: 20.88-20.93m 1cm qtz-carb vein with trace py with a 2cm alteration halo, vein is discontinuous; 31.67-31.78m 3cm discontinuous, qtz-carb vein with 1% py-carb-tor vein with carb alteration halo; 32.22-32.26m 1cm qtz-carb vein tr py discontinuous; 32.50-32.58m 3 cm qtz-carb discontinuous vein with 1% py and trace po?. lower contact is sharp														
						20.6	21.2	0.6	0.0025	2.5	0.25	43	99	B0046284
						21.2	21.8	0.6	0.0025	2.5	0.25	58	107	B0046285
						31.0	31.5	0.5	0.0025	5	0.25	74	198	B0046286
						31.5	32.0	0.5	0.0025	2.5	0.25	27	275	B0046287
						32.0	32.65	0.65	0.0025	10	0.25	77		B0046288
						32.65	33.4	0.75	0.0025	2.5	0.25	32	277	B0046289
						33.4	34.08	0.68	0.0025	2.5	0.25	52	215	B0046291

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
34.08	35.98	ID, INTERMEDIATE DYKE	MASSIVE	VERY FINE	LIGHT GREY	34.08	34.5	0.42	0.0025	5	0.25	39	161	B0046292
Layered (horizontal) texture, light grey, fine grained grain size varies in different layers of unit portion of unit displays clasts (similar texture to IVCL below), Could be an intrusion, could be a very large clast (Block/Bomb), possible volcanic inclusion, unit displays occasional qtz-carb vein, py seems to be partly disseminated. Sharp upper and lower contact, slightly undulose.														
						34.5	35.0	0.5	0.0025	2.5	0.25	29	240	B0046293
						35.0	35.98	0.98	0.0025	5	0.25	16	184	B0046294

notable structures: 34.34 - 34.44 qtz - carb vein set, made up of two 2 cm qtz-carb veins. Slightly irregular, with trace py on margins. 35.85 - 35.89 m 2 cm qtz-carb-chlor vein, with trace py.

Project: Van Horne

Hole Number: VH20-003

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
35.98	61.22	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	MEDIUM	GREEN-GREY	35.98	37.0	1.02	0.0025	2.5	0.25	59	144	B0046295
Similar to IVCL seen uphole at 12-34.08. Welded texture made up of ground mass and clasts of varying size and composition. Clasts range from 0.5-4cm and are round and often angular. Has "intrusion" from 38.19-38.41m which is similar in composition to unit seen from 34.08-35.98m. Intrusion has sharp contacts. Alteration consistent throughout unit, with sericite alteration increasing from. 48.17 - 52.11m, potassic alteration grade subtly with increased proximity to QFP; potassic alteration displayed within clasts. Sharp undulose lower contact with QFP.						37.0	38.0	1	0.0025	2.5	0.25	93	167	B0046296
Notable areas: 43.3 - 43.39 m 9 cm qtz-carb-chlor vein, 0.1% disseminated pyrite, 0.1% fracture-fill pyrite. Sericite alteration in and around vein.						38.0	39.0	1	0.0025	2.5	0.25	87	123	B0046297
						42.5	43.0	0.5	0.0025	2.5	0.25	37	73	B0046298
						43.0	43.5	0.5	0.0025	2.5	0.25	37	76	B0046299
						43.5	44.0	0.5	0.0025	2.5	0.25	65	80	B0046300
61.22	69.8	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	62.5	63.0	0.5	0.0025	2.5	0.25	8	41	B0046301
Red-brown weakly deformed QFP, occasional qtz-carb-chlor veins. ranging in width occasionally displaying vugs (68.03 - 68.06 m). Unit displays low abundance of cross cutting fractures. From 65.20 - 65.52 m, unit appears brecciated with fractures displaying chlorite infill (possibly tourmaline) Unit displays 0.1% disseminated pyrite, occasionally seen in qtz-carb veins. Sharp upper and lower contacts, both undulose.						63.0	63.5	0.5	0.0025	2.5	0.25	14	36	B0046302
						63.5	64.0	0.5	0.0025	2.5	0.25	11	34	B0046304
						64.0	65.0	1	0.006	2.5	0.25	8	39	B0046305
						65.0	66.0	1	0.015	2.5	0.25	10	35	B0046306
						66.0	67.0	1	0.0025	2.5	0.25	19	36	B0046307
						67.0	68.0	1	0.0025	2.5	0.25	12	40	B0046308
						68.0	69.0	1	0.0025	2.5	0.25	14	33	B0046309
						69.0	69.8	0.8	0.0025	2.5	0.25	18	24	B0046310
69.8	71.82	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	BEIGE	69.8	71.0	1.2	0.0025	2.5	0.25	25	85	B0046311
Intermediate volcanoclastic inclusion, caught between 2 qfp's displaying strong - intense deformation. Colour ranging from red (in clasts) grading into beige towards lower contact as sericite alteration increases to intense. Unit displays weak foliation, clast size and abundance varies. Sharp lower contact, 71.82 (trace fault gouge along contact).						71.0	71.82	0.82	0.016	2.5	0.25	241	74	B0046312
71.82	72.46	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	71.82	73.0	1.18	0.596	2.5	0.25	11	29	B0046313
Similar to QFP seen from 61.22 - 69.8 m, moderate abundance of qtz-carb veins, predominantly with the same orientation and widths (0.5 - 1 cm), occasionally displaying vugs; pyrite mineralization occurring in 1 - 2% abundance to quartz margins. Qtz vein stockwork from 71.82 - 72 m. 1% pyrite along margins of veins, veins occasionally displaying stockwork. Low abundance of magnetite grains. Slightly gradational lower contact.														

Project: Van Horne						Hole Number: VH20-003								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
72.46	77.81	ID, INTERMEDIATE DYKE	MASSIVE	FINE	LIGHT GREY	71.82	73.0	1.18	0.596	2.5	0.25	11	29	B0046313
Intrusive dyke, grey to light grey fine grained, moderate strength magnetism, massive intermediate intrusive. Possible volcanic unit but due to lack of deformation compared to units above and below, it is assumed to post date the surrounding units therefore being an intrusion. Upper and lower contacts are sharp with QFP, lower contact displays strong potassic alteration from 77.74 - 77.81. Low abundance of carb filled fractures from 74.46 - 75.8 m. Unit is mostly homogeneous. Trace fault gouge along lower contact.						73.0	74.0	1	0.088	2.5	0.25	9	32	B0046314
						74.0	74.46	0.46	0.292	2.5	0.25	13	19	B0046315
						74.46	75.0	0.54	0.097	6	0.25	40	83	B0046317
						75.0	76.0	1	0.0025	2.5	0.25	48	81	B0046318
						76.0	77.0	1	0.0025	2.5	0.25	30	74	B0046319
						77.0	77.81	0.81	0.0025	2.5	0.25	26	75	B0046320
77.81	78.75	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	BEIGE	77.81	78.28	0.47	0.161	5	0.25	12	48	B0046321
Intensely deformed QFP displaying multiple quartz veins of varying thickness and orientation. Unit is made up of 70% veins / 30% host rock. Mineralization 1% py. Sharp upper and lower contact.						78.28	78.75	0.47	1.345	5	0.25	8	36	B0046322
77.81 - 77.91 (deformed 10 cm thick qtz-serc-carb-py vein displaying 1% py)														
77.91 - 78.11 (deformed 22 cm thick qtz-carb-serc-py-tor vein, displaying 1% py along margins. and 1% within sericite / carbonate blebs).														
78.45 - 78.75 (weakly deformed 27 cm qtz-carb-tor-py, vein displays 1% py and occasional vugs)														
78.75	81.27	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	BEIGE	78.75	79.25	0.5	0.147	2.5	0.25	68	92	B0046323
Due to deformation being intense, it is likely this unit pre-dates the QFP and "intrusion" seen above though they share a similar texture. Intensely altered intermediate volcanic unit displaying multiple quartz veins, both regular and slightly irregular with varying orientation and widths; some veins are discontinuous, most are continuous, some are crosscutting, most have blowouts occurring. Colour varies from beige in areas proximal to quartz veins to dark grey in areas that lack quartz veins. Sharp upper and lower contact, slightly undulose.						79.25	79.9	0.65	2.11	5	0.7	46	46	B0046324
						79.9	80.65	0.75	1.045	2.5	0.25	40	97	B0046325
						80.65	81.27	0.62	1.045	5	0.25	49	65	B0046326
Notable quartz veins: 79.67 - 79.88 m, 20 cm thick qtz-carb-tor-py vein, displaying fracture-fill tourmaline and 2% py. Vein also has blow outs of tourmaline and carb these blow outs displayed 3% pyrite. 80.95 - 81.04 m 7 cm thick qtz-tor-carb-py vein displaying 2% blebby pyrite along margins. 81.07 - 81.13m, 5 cm vein. qtz-carb-tor vein set, made up of 70% vein, 30% altered wall rock, tourmaline occurring as blebs, pyrite 2% along margins.														
81.27	82.3	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	RED-BROWN	81.27	82.3	1.03	1.19	2.5	0.25	16	38	B0046328
red-brown QFP, low abundance of (0.25 - 1 cm) quartz veins, all with similar orientations. Alteration in unit is weak, trace py.														

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Hole Number: VH20-003

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
82.3	89.19	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	82.3	82.75	0.45	0.012	2.5	0.25	35	103	B0046329
Similar to IV unit at 78.75 - 81.27, deformation is moderate and colour is light grey. Unit displays small areas of brecciation with weak fracture-fill chlorite within areas of brecciation and weak patchy carbonate throughout whole rock and 2% disseminated py within host rock. Unit displays variety of structures, some veins appear relict qtz-carb-chlor(82.45 - 82.50 and 83.25 - 83.32 m). Other veins appear sharp (82.55 - 82.63 8 cm qtz-carb-tor, 85.17 - 85.27 8 cm, qtz-carb-tor) Others appear to be deformed (84.42 - 84.7 m) 25 cm deformed quartz vein made up of 60% vein, 40% strongly deformed wall rock qtz-carb-ser-py-tor 2% py and 86.71 - 86.85 m 80% vein, 20% wall rock qtz-carb-ser-tor 0.5%. 86.13 - 86.26 m qtz--tor-py-carb crosscutting vein set with 4% blebby pyrite and potassic halo alteration. Sharp upper and lower contacts, both contacts occurring with veins.														
						82.75	83.55	0.8	0.0025	2.5	0.25	32	79	B0046330
						83.55	84.25	0.7	0.009	2.5	0.25	14	79	B0046331
						84.25	84.75	0.5	1.63	2.5	0.25	23	73	B0046332
						84.75	85.35	0.6	0.147	2.5	0.25	69	83	B0046333
						85.35	86.0	0.65	0.767	2.5	0.25	26	97	B0046334
						86.0	86.5	0.5	1.05	2.5	0.25	131	102	B0046335
						86.5	87.0	0.5	0.005	2.5	0.25	6	111	B0046336
						87.0	88.0	1	0.039	2.5	0.25	19	75	B0046337
						88.0	88.75	0.75	0.643	2.5	0.25	31	70	B0046338
						88.75	89.19	0.44	0.005	2.5	0.25	32	68	B0046339

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample	
89.19	133.39	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	MEDIUM	GREEN-GREY	89.19	90.0	0.81	0.005	2.5	0.25	16	88	B0046340	
Similar IVCL unit from 12 - 34.08, medium grained, moderate deformation and alteration with clasts being sub-rounded and slightly elongate in areas, most are not. Welded texture is present, overall unit shows 0.1% disseminated pyrite with mineralization occurring within quartz veins and vein margins; past 116.44 mineralization increases to 0.5% disseminated pyrite. 116.44 - 123 m an increase in sericite alteration is seen around quartz vein margins. Brecciation texture is present within some areas around quartz veins, showing weak fracture-fill chlorite; sericite alteration also increases slightly within proximity to quartz veins (116.72 m - 116.75 & 117.40 - 117.48 m). Clast size increases past 126 m and clast abundance decreases, leaving more fine grained host rock visible.															
						90.0	91.0	1	0.0025	2.5	0.25	12	92	B0046341	
						91.0	91.5	0.5	0.0025	2.5	0.25	11	86	B0046343	
						91.5	92.0	0.5	0.023	2.5	0.25	10	88	B0046344	
						92.0	93.0	1	0.0025	2.5	0.25	9	101	B0046345	
						102.5	103.0	0.5	0.006	2.5	0.25	10	86	B0046346	
						103.0	104.0	1	0.012	2.5	0.25	16	91	B0046347	
						104.0	105.0	1	0.0025	2.5	0.25	18	93	B0046348	
						105.0	106.0	1	0.0025	2.5	0.25	39	93	B0046349	
						106.0	107.0	1	0.0025	2.5	0.25	36	95	B0046350	
						107.0	108.0	1	0.015	2.5	0.25	59	92	B0046351	
						108.0	108.5	0.5	1.325	2.5	0.25	55	82	B0046352	
						108.5	109.0	0.5	0.02	2.5	0.5	259	99	B0046353	
						109.0	110.0	1	0.0025	2.5	0.25	55	94	B0046354	
						110.0	111.0	1	0.0025	2.5	0.25	49	96	B0046356	
						111.0	112.0	1	0.0025	2.5	0.25	43	100	B0046357	
						112.0	113.0	1	0.007	2.5	0.25	61	103	B0046358	
						113.0	113.5	0.5	0.114	2.5	0.25	25	100	B0046359	
						113.5	114.0	0.5	0.0025	2.5	0.25	20	124	B0046361	
						114.0	114.5	0.5	0.109	2.5	0.25	18	108	B0046362	
						114.5	115.0	0.5	0.007	2.5	0.25	18	116	B0046363	
						115.0	115.5	0.5	0.016	2.5	0.25	18	104	B0046364	
						115.5	116.05	0.55	0.041	2.5	0.25	20	123	B0046366	
						116.05	116.55	0.5	0.005	2.5	0.25	15	116	B0046367	
						116.55	117.1	0.55	1.955	20	0.25	28	94	B0046369	
						117.1	117.6	0.5	2.1	10	0.25	46	87	B0046370	
						117.6	118.1	0.5	1.45	2.5	0.25	65	77	B0046372	
						118.1	119.0	0.9	0.511	2.5	0.25	90	94	B0046373	
						119.0	119.5	0.5	0.38	2.5	0.25	108	86	B0046374	
						119.5	120.0	0.5	0.399	2.5	0.25	62	78	B0046375	
						120.0	120.5	0.5	0.231	2.5	0.25	47	92	B0046376	

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						120.5	121.1	0.6	0.007	2.5	0.25	52	91	B0046377
						121.1	122.0	0.9	0.0025	2.5	0.25	36	88	B0046378
						122.0	123.0	1	0.0025	2.5	0.25	38	79	B0046379
						123.0	124.0	1	0.0025	2.5	0.25	68	94	B0046380
						124.0	125.0	1	0.0025	2.5	0.25	34	99	B0046382
						125.0	125.5	0.5	0.0025	2.5	0.25	31	101	B0046383
						125.5	126.0	0.5	0.0025	2.5	0.25	51	107	B0046384
						126.0	127.0	1	0.0025	2.5	0.25	51	112	B0046385
						132.0	132.9	0.9	0.0025	2.5	0.25	42	135	B0046386
						132.9	133.39	0.49	0.0025	2.5	0.25	40	132	B0046387
133.39	137.22	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	133.39	134.0	0.61	0.0025	2.5	0.25	23	130	B0046388
Intermediate volcanic unit, similar to unit at 78.75 - 81.27m Weak deformation and alteration, fine grain size and grey in colour, this unit has weak patchy carbonate and silica eyes throughout the unit. Mineralization is restricted to the quartz veins within the unit, alteration also increases within and around the quartz veins. Veins are mostly qtz-carb-chlor veins, with 0.5 - 4% blebby pyrite. Upper and lower contacts are sharp and slightly irregular. The unit has an inclusion of a small IVCL unit, similar to the unit from 89.19 - 133.39 m from 134.35 - 135.53 m.						134.0	135.0	1	0.0025	2.5	0.25	8	118	B0046646
						135.0	135.56	0.56	0.0025	2.5	0.25	7	83	B0046647
						135.56	136.1	0.54	0.0025	2.5	0.25	5	106	B0046648
Notable areas: 137.17 - 137.20 m, 2 cm thick qtz-carb-chlor vein which has 2 stringer veins of the same angles. Vein shows 4% blebby pyrite, 1% disseminated pyrite. Stringer veins extend into next unit.						136.1	136.6	0.5	0.0025	2.5	0.25	2	126	B0046649
						136.6	137.37	0.77	37.4	2.5	4.4	15	115	B0046650
135.56 - 136.59 : Quartz Vein, 2 cm thick qtz-carb-chlor vein, 0.1% disseminated pyrite.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
137.22	193.44	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	MEDIUM	GREEN-GREY	136.6	137.37	0.77	37.4	2.5	4.4	15	115	B0046650
<p>Intermediate volcaniclastic unit, moderate deformation, medium grain size, and a welded texture. The unit is weakly foliated and shows areas of brecciation. The clasts are sub-rounded and 1 - 3 cm with very minor amounts being 10 cm. The mineralization within the unit is mostly 0.5% blebby pyrite and 0.1 % disseminated pyrite; mineralization increases within and surrounding quartz veins. The breccia texture has weak fracture-fill chlorite present around the clasts. Vein set from 138.71 - 141.62 m, three 2 cm qtz-carb-chlor veins, showing 0.5% disseminated pyrite and 2% blebby pyrite. Another vein set from 157.30 - 157.47 qtz-carb-chlor-ser-py shows 5% fracture-fill pyrite, 1% blebby pyrite with an alteration halo from 157.06 - 157.58 m of moderate pervasive sericite. A small qtz-carb-chlor vein from 156.81 - 156.83 m shows 0.5% blebby pyrite and 0.5% blebby sphalerite. Towards end of the unit, alteration picks up to strong patchy carbonate and moderate patchy silica and weak pervasive sericite. Also of note are the several large, very fine grained clasts with weak alteration (164.57 - 164.96 m) which are intermediate in composition.</p>														
<p>Notable areas: 156.81 - 156.83 2 cm thick qtz-carb-chlor vein, 0.5% blebby pyrite and 0.5% blebby sphalerite, 157.30 - 157.47 16 cm thick vein set, 90% vein, 10% wall rock. qtz-carb-chlor-ser-py shows 5% fracture-fill pyrite, 1% blebby pyrite.</p>														
<p>138.71 - 141.62 : Quartz Vein, three 2 cm qtz-carb-chlor veins, showing 0.5% disseminated pyrite and 2% blebby pyrite.</p>														
						137.37	138.0	0.63	0.041	2.5	0.25	148	89	B0046651
						138.0	138.5	0.5	0.008	2.5	0.25	50	67	B0046652
						138.5	139.0	0.5	0.843	2.5	0.25	57	42	B0046653
						139.0	139.5	0.5	0.013	2.5	0.25	65	55	B0046654
						139.5	140.0	0.5	0.0025	2.5	0.25	58	67	B0046655
						140.0	140.5	0.5	0.0025	2.5	0.25	30	71	B0046656
						140.5	141.1	0.6	0.135	2.5	0.25	39	82	B0046657
						141.1	141.7	0.6	0.445	7	0.25	30	74	B0046658
						141.7	142.5	0.8	0.021	2.5	0.9	156	80	B0046659
						142.5	143.0	0.5	0.0025	2.5	0.25	24	96	B0046661
						143.0	144.0	1	0.02	2.5	0.9	106	135	B0046662
						144.0	144.5	0.5	0.512	2.5	1.2	113	105	B0046663
						144.5	145.0	0.5	0.01	2.5	0.6	96	123	B0046664
						150.0	150.5	0.5	0.008	2.5	0.25	24	78	B0046665
						150.5	151.0	0.5	0.031	8	2.6	308	97	B0046667
						151.0	151.5	0.5	0.011	2.5	0.5	84	96	B0046668
						151.5	152.0	0.5	3.25	6	1.2	10	78	B0046669
						152.0	153.0	1	0.074	2.5	0.25	23	98	B0046670
						153.0	154.0	1	0.02	2.5	1.3	213	74	B0046671
						154.0	154.5	0.5	0.785	2.5	0.25	75	94	B0046672
						154.5	155.4	0.9	0.901	8	0.6	13	219	B0046674
						155.4	156.0	0.6	2.91	2.5	0.5	9	152	B0046675
						156.0	157.0	1	0.09	21	0.7	79	821	B0046676
						157.0	157.62	0.62	0.273	92	1.9	246	389	B0046677
						157.62	158.5	0.88	0.009	2.5	0.25	17	165	B0046678

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
193.44	202.77	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	194.0	195.0	1	0.0025	2.5	0.25	1	61	B0046389
An intermediate volcanic unit, moderate deformation, fine grained and grey - beige in colour. Alteration and mineralization is localized around quartz veins, while the whole unit shows 0.5% disseminated pyrite, weak pervasive sericite and weak patchy carbonate. The unit is similar to the IV unit at 133.39 - 137.22 m. Upper and lower contacts of the unit are gradational both leading into an IVCL unit.														
Notable Areas: 195.11 - 195.34 m, 22 cm thick vein, qtz-carb-tour-py, 1% blebby pyrite.														
196 - 196.11 m, 9 cm thick qtz-carb vein with 0.1% disseminated pyrite.														
197.58 - 197.70 m, 4-6 cm thick, qtz-carb-chlor, vein showing 0.5% blebby pyrite. with 0.5% disseminated pyrite within surrounding host rock. Vein is slightly irregular and varies in width.														
197.83 - 198.08 m, 7 cm thick, qtz-carb-chlor-tour vein with 0.1% fracture-fill pyrite.														
198.64 - 199.56 m, 76 cm thick vein, qtz-carb-chlor-tour, 0.5% fracture-fill pyrite, 0.1 % disseminated pyrite. Surrounding wall rock has moderate pervasive sericite alteration, increased from weak.														
199.92 - 200.05 m, 6 - 12 cm in thickness (varying thickness). qtz-carb-chlor, 1% blebby pyrite. Surrounding wall rock has moderate pervasive sericite like previous vein.														
200.94 - 201.41 m, 40 cm thick vein, qtz-carb-chlor, 0.1% fracture-fill pyrite, minor breccia texture within the wall rock surrounding the vein.														
198.64 - 199.56 : Quartz Vein, qtz-carb-chlor-tour, 0.5% fracture-fill pyrite, 0.1 % disseminated pyrite.														
200.94 - 201.41 : Quartz Vein, qtz-carb-chlor, 0.1% fracture-fill pyrite														
						195.0	195.5	0.5	0.0025	2.5	0.25	4	44	B0046390
						195.5	195.95	0.45	0.0025	2.5	0.25	2	49	B0046391
						195.95	196.5	0.55	0.0025	2.5	0.25	2	52	B0046392
						196.5	197.0	0.5	0.0025	2.5	0.25	5	67	B0046393
						197.0	197.5	0.5	0.0025	10	0.25	10	101	B0046395
						197.5	198.15	0.65	0.0025	2.5	0.25	6	65	B0046396
						198.15	198.6	0.45	0.0025	16	0.25	52	149	B0046397
						198.6	199.2	0.6	0.047	2.5	0.25	104	80	B0046398
						199.2	199.7	0.5	0.0025	6	0.25	14	186	B0046399
						199.7	200.25	0.55	0.0025	2.5	0.25	2	64	B0046400
						200.25	200.85	0.6	0.0025	2.5	0.25	2	47	B0046401
						200.85	201.45	0.6	0.0025	2.5	0.25	8	29	B0046402
						201.45	202.0	0.55	0.0025	5	0.25	3	46	B0046403
						202.0	203.0	1	0.0025	2.5	0.25	1	56	B0046404

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
202.77	262.91	MV, MAFIC VOLCANIC	AMYGDALOIDAL	FINE	DARK GREY	202.0	203.0	1	0.0025	2.5	0.25	1	56	B0046404
A mafic volcanic unit seen in the previous hole from 241.59 - 271.62 m, showing amygdaloids of carbonate / silica within a fine grained matrix (possibly amphibole). phenocrysts of plagioclase / amphiboles are also present, infilled by a fracture-fill sericite alteration. Unit displays weak deformation throughout the unit, a fine grain size and is mostly dark grey - grey in colour. Alteration is moderate throughout the unit, and shows 0.1% disseminated pyrite throughout the whole unit. Unit shows small stringer qtz-carb-chlor tour and 0.1% blebby pyrite. Some large quartz vein (qtz-carb-chlor-tour) vein sets are present: 212.18 - 212.29, 216.73 - 216.83, 239.47 - 239.56, 239.84 - 240 m. Veins past 243 m are unremarkable due to lack of mineralization.						203.0	204.0	1	0.0025	2.5	0.25	3	51	B0046406
Past 250.74 m, alteration grades into more pervasive sericite from subtle - moderate with some areas having less amygdaloids. No notable areas.						204.0	205.0	1	0.0025	2.5	0.25	6	64	B0046407
						205.0	205.6	0.6	0.0025	2.5	0.25	3	59	B0046408
						205.6	206.2	0.6	0.0025	2.5	0.25	5	89	B0046409
						210.5	211.0	0.5	0.0025	2.5	0.25	19	84	B0046679
						211.0	212.0	1	0.0025	2.5	0.25	14	134	B0046680
						212.0	212.5	0.5	0.0025	2.5	0.25	2	71	B0046681
						212.5	213.0	0.5	0.0025	2.5	0.25	2	108	B0046682
						213.0	214.0	1	0.0025	2.5	0.25	2	94	B0046683
						214.0	215.0	1	0.0025	2.5	0.25	2	102	B0046684
						215.0	216.0	1	0.0025	2.5	0.25	5	124	B0046685
						216.0	216.5	0.5	0.0025	2.5	0.25	12	124	B0046687
						216.5	217.0	0.5	0.0025	2.5	0.25	7	78	B0046688
						217.0	218.0	1	0.0025	2.5	0.25	1	91	B0046689
						238.5	239.0	0.5	0.0025	2.5	0.25	1	105	B0046690
						239.0	239.6	0.6	0.0025	2.5	0.25	0.5	100	B0046691
						239.6	240.1	0.5	0.0025	2.5	0.25	2	112	B0046692
						240.1	240.6	0.5	0.0025	2.5	0.25	1	115	B0046693
						242.5	243.0	0.5	0.0025	2.5	0.25	1	113	B0046694
						243.0	243.5	0.5	0.0025	2.5	0.25	3	107	B0046695
						243.5	244.2	0.7	0.0025	2.5	0.25	2	116	B0046696
						244.2	245.0	0.8	0.01	2.5	0.25	2	111	B0046697
						245.0	246.0	1	0.0025	2.5	0.25	1	103	B0046698
						246.0	246.5	0.5	0.11	2.5	0.25	3	116	B0046700
						246.5	247.1	0.6	0.0025	2.5	0.25	3	107	B0046701
						247.1	247.6	0.5	0.0025	2.5	0.25	1	111	B0046702
						250.0	250.5	0.5	0.0025	2.5	0.25	2	117	B0046703
						250.5	251.1	0.6	0.0025	2.5	0.25	3	121	B0046704
						251.1	251.6	0.5	0.0025	2.5	0.25	1	147	B0046705
						255.5	256.0	0.5	0.007	2.5	0.25	3	122	B0046706

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						256.0	256.5	0.5	0.0025	2.5	0.25	3	112	B0046707
						256.5	257.0	0.5	0.0025	2.5	0.25	2	124	B0046708
						257.0	257.5	0.5	0.0025	2.5	0.25	1	124	B0046709
						262.9	264.0	1.1	0.0025	2.5	0.25	3	93	B0046710
262.91	276.36	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	MEDIUM	LIGHT GREY	262.9	264.0	1.1	0.0025	2.5	0.25	3	93	B0046710
An intermediate volcaniclastic unit with moderate deformation, medium grain size and light grey colour. Welded texture is present along with a weak foliation and weak breccia texture within local areas. Clasts are sub-rounded to angular and 0.5 - 2 cm in width. Unit has patchy moderate silica and patchy moderate carbonate alteration with weak fracture-fill chlorite within the local breccia areas. Overall unit has trace disseminated pyrite.														
Notable areas: 269.76 - 269.83 m 7 cm thick, qtz-carb-chlor, trace disseminated pyrite.														
275.1 - 275.15 m 4 cm thick, qtz-carb-chlor-tour-py vein, showing trace blebby visible gold, 2 % blebby pyrite and 0.5% disseminated pyrite within the surrounding wall rock.														
						264.0	265.0	1	0.0025	2.5	0.25	3	144	B0046711
						265.0	266.0	1	0.005	2.5	0.25	4	141	B0046713
						266.0	267.0	1	0.0025	5	0.25	2	116	B0046714
						267.0	268.0	1	0.0025	5	0.25	5	114	B0046715
						268.0	269.0	1	0.049	2.5	0.25	4	117	B0046410
						269.0	269.5	0.5	0.006	2.5	0.25	5	109	B0046411
						269.5	270.0	0.5	0.0025	2.5	0.25	5	108	B0046412
						270.0	271.0	1	0.005	2.5	0.25	4	109	B0046413
						271.0	272.0	1	0.04	2.5	0.25	8	107	B0046414
						272.0	273.0	1	0.0025	2.5	0.25	8	129	B0046415
						273.0	274.0	1	0.009	2.5	0.25	5	129	B0046416
						274.0	274.9	0.9	0.0025	2.5	0.25	8	130	B0046417
						274.9	275.4	0.5	4.71	2.5	0.25	8	93	B0046418
						275.4	275.9	0.5	0.039	2.5	0.25	6	111	B0046420
						275.9	276.36	0.46	0.019	2.5	0.25	4	113	B0046421
276.36	279.23	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	RED-BROWN	276.36	276.87	0.51	0.891	2.5	0.8	6	81	B0046422
An intensely deformed intermediate volcaniclastic zone, with fine grain size, red-brown colour and a foliated texture. Zone displays intense deformation along with strong pervasive potassic alteration, strong pervasive sericite and moderate fracture-fill chlorite alteration. The breccia texture is present within the a large majority of the unit but is weaker than the foliation texture; the breccia texture has chlorite fracture-fill for most of the unit. The unit also shows 2% fracture-fill pyrite, 2% disseminated pyrite and 0.5% blebby pyrite within the host rock.														
Notable areas: 276.97 - 277.05 m, 6 cm thick, qtz-carb-chlor-tour-py, 2% blebby pyrite within quartz vein.														
277.63 - 277.67 m, 2 cm thick, qtz-carb-chlor, 1% fracture-fill pyrite, 0.5 % disseminated pyrite within wall rock.														
277.71 - 277.76 m, 4 cm thick, qtz-carb-chlor-serc-py, 1% fracture-fill pyrite, within vein margins, 0.5% fracture-fill pyrite and 0.5% disseminated pyrite within surrounding host rock.														
278.43 - 278.67 vein set, 80% vein, 20% intensely altered wall rock, qtz-carb-chlor-serc-tour-pot, 2% disseminated pyrite, moderate vugs within the vein set.														
278.88 - 278.94 m, 6 cm thick, qtz-carb-chlor-pot, 1% disseminated pyrite. and 0.5% disseminated pyrite within surround wall rock.														
						276.87	277.43	0.56	2.24	14	0.6	65	60	B0046424
						277.43	277.93	0.5	2.34	9	0.25	74	52	B0046425
						277.93	278.7	0.77	0.298	6	0.25	46	34	B0046427
						278.7	279.23	0.53	1.02	6	0.25	29	57	B0046428

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
279.23	314.99	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	279.23	280.0	0.77	0.214	2.5	0.25	26	93	B0046429
An intermediate volcanic unit showing varying amounts of alteration and deformation. The unit shows overall a light grey colour and has a fine grained groundmass. From 279.23 - 292.04 the unit shows weak alteration (carb-silica-chlor-pot) while grading in moderate alteration. Alteration and deformation increases intensity surrounding quartz veins. From 292.04 - 298.65 m there is moderate patchy carbonate, weak patchy silica and weak pervasive sericite alteration. 298.65 - 304.38 m, there is weak fracture-fill chlorite, moderate patchy carbonate and weak patchy potassic alteration; this area has a weak - moderate breccia texture, similar to 309.29 - 309.78 m. 304.38 - 305.50 m, there is a alteration halo, moderate pervasive sericite, moderate patchy carbonate and subtle pervasive potassic alteration. 305.5 - 309.29 m, same alteration as 292.04 - 298.65 m. 309.29 - 309.78 m, there is moderate pervasive sericite, moderate fracture-fill chlorite and subtle patchy carbonate with 1% disseminated pyrite; this area also has the breccia texture similar to 298.65 - 304.38 m. 309.78 - 312.36 m is the same as 292.04 - 298.65 m. 312.36 - 314.99 m has weak patchy silica and weak patchy carbonate. Overall the unit shows 0.5% disseminated pyrite and 0.1% blebby pyrite.						280.0	280.5	0.5	0.0025	2.5	0.25	41	73	B0046430
						304.0	304.5	0.5	0.0025	2.5	0.5	24	171	B0046716
						304.5	305.0	0.5	0.0025	2.5	0.25	21	75	B0046717
						305.0	305.5	0.5	0.005	2.5	0.25	55	58	B0046718
						311.5	312.0	0.5	0.0025	2.5	0.25	55	92	B0046719
						312.0	312.5	0.5	0.0025	2.5	0.25	70	110	B0046720
						312.5	313.0	0.5	0.0025	2.5	0.25	43	111	B0046721
The unit has several quartz vein (291.28 - 291.29 m, 312.31 - 312.36 m, and smaller relict veins (281.37 - 281.39 m, 304.74 - 304.92 m). Most are qtz-carb-chlor tour and 0.1 - 0.5% blebby pyrite and 0.1 - 0.5% disseminated pyrite.						313.0	314.0	1	0.0025	2.5	0.25	62	125	B0046722
Notable areas: 304.74 - 304.92 m, 80% vein, 20% wall rock, qtz-carb-chlor-serc-pot, 1% disseminated pyrite and 0.5% blebby pyrite.						314.0	315.0	1	0.0025	2.5	0.25	38	85	B0046724

314.51 - 314.89 : Quartz Vein, Two veins (2 & 3 cm), qtz-carb-chlor, 0.1% blebby pyrite.

314.99	322.29	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	BEIGE	314.0	315.0	1	0.0025	2.5	0.25	38	85	B0046724
Intermediate volcaniclastic unit displaying fine grain size, moderate - strong deformation and beige - light grey colour. Alteration within the unit varies, showing alternating areas of moderate - strong alteration (carb-seric-chlor-silica). One notable area is 316.92 - 317.16 m, showing intense pervasive carbonate and moderate fracture-fill chlorite within a brecciated area. Clasts range from sub-rounded - rounded, have patchy carbonate alteration within some, while others are intermediate in composition, similar to the IV units groundmass. Overall the unit has one which shows no sulphides, but the unit shows 1% disseminated pyrite and 0.5% blebby pyrite overall. Unit grades from moderate to intense alteration with strong alteration being the average (strong patchy carbonate, weak fracture-fill chlorite and moderate pervasive sericite). Clast abundance decreases at the gradational contact between the IVCL and IV.						315.0	316.0	1	0.0025	2.5	0.25	51	98	B0046725
						316.0	316.8	0.8	0.0025	2.5	0.25	25	97	B0046726
						316.8	317.3	0.5	0.0025	2.5	0.25	105	61	B0046728
						317.3	318.0	0.7	0.0025	2.5	0.25	89	82	B0046729
						318.0	319.0	1	0.0025	2.5	0.25	20	96	B0046730
						319.0	320.0	1	0.0025	2.5	0.25	101	86	B0046731

322.29	340.02	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY
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Intermediate volcanic unit with weak deformation, very fine grain size, grey - dark grey in colour and massive in texture. Unit shows weak alteration, weak fine grained patchy silica, subtle patchy carbonate and subtle pervasive sericite. Unit shows many unremarkable stringers qtz-carb veins, and 1 cm qtz-carb-chlor vein with 0.1 - 0.5% disseminated pyrite (334.37 - 334.38, 337.48 - 337.49, 338.06 - 338.07 and 338.91 - 338.93 m). Unit has areas which may be large, rounded, intermediate composition, fine-grained clasts or may be selective alteration, unit may be remarked as an intermediate volcaniclastic in other holes. Upper and lower contacts are gradational., Unit overall has 0.1% disseminated pyrite and 0.5% blebby pyrite. Unit also shows a weak foliation along alteration but is mostly massive.

No remarkable areas.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
340.02	384.51	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	LIGHT GREY	341.0	342.0	1	0.013	2.5	0.25	11	110	B0046732
Intermediate volcanoclastic, welded texture similar to previous IVCL units, moderate deformation, fine grain size and light grey in colour. Alteration varies with alternating amounts of weak - moderate carb-serc-chlorite-sili alteration. Main types of alteration within the unit alternate, but generally moderate patchy carbonate, weak patchy silica, moderate pervasive sericite, weak fracture-fill chlorite (more found within brecciated areas) and weak patchy chlorite, can be found throughout the unit. Clasts within the unit are angular - sub-rounded, 0.5 cm - 5 cm; clasts are altered by patchy carbonate / patchy silica / pervasive sericite (75% of clasts) and some are intermediate in composition and weakly altered with pervasive sericite. (25% of clasts). Mineralization varies within the unit, mineralization increases surrounding quartz veins. The unit has many quartz veins / sets, most showing qtz-carb-chlor tour, with 0.5 - 2% disseminated pyrite and 0.5 - 2% blebby pyrite and some show trace arsenopyrite. The end of the unit (381.5 - 384.51) shows minor brecciation.														
Notable areas: 342.04 - 344.29 m, Five (1-2 cm thick) qtz-carb-chlor veins with 2% blebby pyrite / disseminated pyrite.														
345.48 - 350.72 m, area shows 2% blebby pyrite, 2% fracture-fill pyrite and 0.5% disseminated pyrite, along with changing alteration but mostly moderate - strong alteration.														
358.53 - 358.59 m, 5 cm thick, qtz-carb-chlor vein, 1% blebby pyrite, 0.5% disseminated pyrite.														
367.84 - 367.97 12 cm thick, qtz-carb-chlor, 1% disseminated pyrite with 1% disseminated pyrite in surrounding wall rock.														
368.28 - 368.3, 1 cm thick, qtz-carb-chlor vein, 0.1% blebby arsenopyrite.														
368.68 - 368.87 m, 8 - 16 cm thick (varies in thickness) stockwork vein, qtz-carb-chlor, 0.1% disseminated pyrite with breccia texture surrounding vein.														
373.16 - 373.20 m, 3 cm thick, qtz-carb-chlor-tour vein, 0.5% disseminated pyrite.														
374.68 - 377.46 m, vein set, (1 cm thick veins) qtz-carb-chlor tour, 0.1 - 1% blebby pyrite, 0.1% blebby arsenopyrite, 0.5% disseminated pyrite.														
343.02 - 344.29 : Quartz Vein, Five (1-2 cm thick) qtz-carb-chlor veins with 2% blebby pyrite / disseminated pyrite.														
374.68 - 377.46 : Quartz Vein, vein set, (1 cm thick veins) qtz-carb-chlor tour, 0.1 - 1% blebby pyrite, 0.1% blebby arsenopyrite, 0.5% disseminated pyrite.														
						342.0	342.5	0.5	4.45	2.5	1	29	104	B0046733
						342.5	343.0	0.5	0.013	2.5	0.25	47	94	B0046734
						343.0	344.0	1	0.013	2.5	0.25	42	108	B0046735
						344.0	344.5	0.5	0.052	5	0.5	47	94	B0046736
						344.5	345.5	1	0.034	12	0.5	21	94	B0046737
						345.5	346.5	1	0.017	13	0.25	8	107	B0046739
						346.5	347.5	1	0.009	6	0.25	3	70	B0046740
						347.5	348.0	0.5	0.704	8	0.25	3	79	B0046741
						348.0	349.0	1	0.016	5	0.25	3	72	B0046742
						349.0	350.0	1	0.025	10	0.25	5	83	B0046743
						350.0	350.5	0.5	0.178	2.5	0.5	2	75	B0046744
						350.5	351.0	0.5	0.029	2.5	0.25	5	80	B0046745
						351.0	352.0	1	0.015	2.5	0.25	3	83	B0046746
						352.0	353.0	1	0.0025	2.5	0.25	5	76	B0046747
						353.0	354.0	1	0.609	6	0.25	9	76	B0046748
						354.0	355.0	1	0.009	2.5	0.25	21	90	B0046749
						357.9	358.4	0.5	0.005	2.5	0.25	20	122	B0046750
						358.4	358.9	0.5	0.442	2.5	0.25	23	90	B0046752
						358.9	359.4	0.5	0.0025	2.5	0.25	18	112	B0046753
						367.0	367.6	0.6	0.007	2.5	0.25	25	105	B0046754
						367.6	368.1	0.5	0.273	6	0.25	15	72	B0046755
						368.1	368.6	0.5	0.012	6	0.25	16	105	B0046756
						368.6	369.1	0.5	0.008	2.5	0.25	9	58	B0046757
						369.1	369.6	0.5	0.025	2.5	0.25	17	85	B0046758
						369.6	370.1	0.5	0.073	6	0.25	11	65	B0046759
						370.1	370.6	0.5	0.011	5	0.25	22	76	B0046760
						370.6	371.4	0.8	0.007	5	0.25	21	94	B0046761
						371.4	372.0	0.6	0.007	2.5	0.25	20	90	B0046762
						372.0	373.0	1	0.549	5	0.25	22	167	B0046763
						373.0	373.5	0.5	0.154	2.5	0.25	17	148	B0046765

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						373.5	374.0	0.5	0.018	6	0.25	15	177	B0046766
						374.0	374.5	0.5	0.007	5	0.25	22	249	B0046767
						374.5	375.0	0.5	0.137	5	0.25	21	262	B0046768
						375.0	375.5	0.5	0.008	2.5	0.25	23	253	B0046769
						375.5	376.0	0.5	1.1	5	0.25	24	269	B0046770
						376.0	376.5	0.5	0.011	2.5	0.25	17	279	B0046771
						376.5	377.0	0.5	0.063	6	0.25	29	317	B0046772
						377.0	377.5	0.5	0.121	2.5	0.25	16	203	B0046773
						377.5	378.0	0.5	0.005	2.5	0.25	17	273	B0046774
384.51	393.96	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	385.0	385.5	0.5	0.0025	2.5	0.25	33	76	B0046775
Intermediate volcanic unit showing moderate deformation, very fine grain size and grey - beige in colour (beige colour increases with proximity to quartz veins). The deformation and alteration increases surrounding a quartz vein (386.63 - 386.90 m) to strong pervasive sericite, moderate pervasive potassic and weak patchy chlorite; deformation changes to strong. 390.6 - 393.96 the unit shows moderate brecciation along with an increase in alteration and grain size from very fine to fine; the brecciation unit starts to show minor clasts which increase past the lower contact; The upper contact of the unit is sharp, the lower contact is gradational. Unit shows 0.1% disseminated pyrite throughout the unit with increasing 0.5% disseminated pyrite within the brecciation zone at the end of the unit. Veins within the unit are large (1-7 cm in thickness) with some notable alteration and mineralization.						385.5	386.0	0.5	0.0025	5	0.25	21	85	B0046776
						386.0	386.6	0.6	0.0025	2.5	0.25	28	74	B0046778
						386.6	387.1	0.5	0.006	2.5	0.25	19	74	B0046779
						387.1	387.6	0.5	0.011	2.5	0.25	30	85	B0046780
						389.5	390.0	0.5	0.0025	11	0.25	30	64	B0046781
Notable areas: 386.63 - 386.90 (vein from 386.73 - 386.84) 7 cm thick qtz-carb-pot-py-serc with 2% disseminated pyrite and 0.5% blebby pyrite within vuggs.						390.0	390.6	0.6	0.0025	11	0.25	29	92	B0046782
390.6 - 393.96 m brecciated area showing increased alteration, deformation and mineralization. 0.5% disseminated pyrite, moderate fracture-fill chlorite, weak pervasive sericite, weak patchy sericite, moderate deformation.						390.6	391.6	1	0.008	2.5	0.25	45	94	B0046783
301.84 - 301.86, 2 cm qtz-carb-chlor-py vein showing 2% fracture-fill py in both wall rock and vein and 1% blebby pyrite within the vein.						391.6	392.1	0.5	0.7	7	0.25	30	146	B0046784
						392.1	392.6	0.5	0.008	2.5	0.25	31	218	B0046785

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
393.96	451.67	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	LIGHT GREY	395.0	395.5	0.5	0.0025	2.5	0.25	22	128	B0046786
Intermediate volcaniclastic unit showing varying alteration and clast type / size. The unit overall has a fine grain size, shows moderate deformation and is light grey in colour. Clasts are 1-3 cm in size, sub-rounded and altered with patchy carbonate / patchy sericite until 408.68 m. 408.68 - 414.41 m alteration and clast abundance decreases. Alteration and clast abundance same as before until 420.26 m. 420.26 - 438.08 m alteration changes to patchy carbonate, patchy chlorite, clasts become smaller and less abundant. 438.08 - 441.41 m alteration increases to moderate pervasive sericite, moderate pervasive carbonate, weak patchy chlorite, clast size is 1-3 cm, but amount is decreased. 438.08 - 441.67 m clasts amount increases, alteration showing moderate patchy chlorite, moderate patchy carbonate and weak pervasive sericite. Upper contact is gradational, lower contact is sharp.														
Notable areas:														
408.14- 408.25 10 cm thick, qtz-carb-tour vein showing 2% blebby pyrite within vein and wall rock.														
417.76 - 417.77 0.5 cm qtz-carb stringer vein showing 3% fracture-fill sphalerite.														
417.25 - 417.33 m, (4 & 2 cm thick) qtz-carb-chlor vein, 2% fracture-fill pyrite within vein, 1% disseminated within wall rock.														
428.16 - 429.25, quartz vein set, varying thickness, qtz-carb-chlor-py-tour, 2% blebby pyrite, 1% disseminated pyrite within vein 3% blebby sphalerite, with 2% blebby pyrite, 1% fracture-fill and 1% disseminated pyrite within wall rock. 30% vein, 70% wall rock, vein is horizontal.														
429.42 - 429.6, 16 cm thick qtz-carb-tour vein, 1% disseminated pyrite.														
435.37 - 437.65 m, stockwork qtz-carb-chlor vein, 5% fracture-fill pyrite, 1% disseminated pyrite.														
430.15 - 430.52, varying thickness of irregular vein, horizontal alpha, qtz-carb-chlor-py, 2% disseminated pyrite, 3% blebby pyrite.														
						395.5	396.0	0.5	0.153	2.5	0.25	37	141	B0046787
						396.0	397.0	1	0.007	2.5	0.25	19	119	B0046788
						397.0	398.0	1	0.032	5	0.25	25	163	B0046789
						398.0	398.5	0.5	0.01	9	0.25	33	134	B0046791
						398.5	399.0	0.5	0.031	6	0.25	14	107	B0046792
						399.0	399.5	0.5	1.285	5	0.25	34	117	B0046793
						399.5	400.0	0.5	0.0025	2.5	0.25	26	135	B0046794
						400.0	400.5	0.5	0.0025	2.5	0.25	20	111	B0046795
						400.5	401.0	0.5	0.0025	2.5	0.25	24	99	B0046796
						401.0	401.5	0.5	0.0025	6	0.25	14	91	B0046797
						401.5	402.0	0.5	0.0025	2.5	0.25	22	114	B0046798
						404.0	404.5	0.5	0.417	7	0.25	15	147	B0046799
						404.5	405.0	0.5	0.02	2.5	0.25	25	131	B0046800
						405.0	405.6	0.6	0.129	2.5	0.25	22	303	B0046802
						405.6	406.1	0.5	0.134	2.5	0.25	17	307	B0046803
						406.1	407.0	0.9	0.005	2.5	0.25	10	156	B0046804
						407.0	408.0	1	0.178	8	0.25	15	273	B0046805
						408.0	408.5	0.5	3.56	7	0.9	8	117	B0046806
						408.5	409.0	0.5	0.017	5	0.25	7	286	B0046807
						416.0	417.0	1	0.026	15	0.25	12	208	B0046808
						417.0	417.5	0.5	2.4	20	2.7	17	282	B0046809
						417.5	418.0	0.5	0.523	91	0.6	21	8,370	B0046810
						418.0	419.0	1	0.218	132	0.8	14	337	B0046811
						419.0	420.0	1	0.273	149	1.4	37	1,565	B0046812
						420.0	420.54	0.54	0.011	7	0.25	22	431	B0046813
						420.54	421.06	0.52	0.0025	2.5	0.25	23	294	B0046814
						421.06	422.0	0.94	0.014	12	0.25	23	246	B0046815
						422.0	423.0	1	0.796	8	2.3	107		B0046817
						423.0	423.5	0.5	0.068	15	2	118	8,710	B0046818
						427.48	427.98	0.5	0.039	18	0.25	26	649	B0046819

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						427.98	429.25	1.27	0.804	119	13.8	1,000		B0046820
						429.25	429.75	0.5	0.033	11	0.6	111	245	B0046821
						429.75	430.15	0.4	0.217	7	0.25	36	261	B0046822
						430.15	430.65	0.5	0.346	122	4.5	637	500	B0046823
						430.65	431.15	0.5	0.012	9	0.25	66	317	B0046824
						431.15	432.0	0.85	0.019	9	0.7	123	239	B0046825
						434.5	435.0	0.5	0.005	2.5	0.25	29	280	B0046826
						435.0	435.65	0.65	0.184	44	0.9	104	5,050	B0046827
						435.65	436.15	0.5	0.059	9	0.8	165	1,700	B0046828
						436.15	437.0	0.85	0.119	22	0.8	159	1,705	B0046830
						437.0	438.0	1	0.401	5	0.25	18	230	B0046831
						438.0	438.5	0.5	0.005	5	0.25	5	124	B0046832
451.67	460.38	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	DARK GREY	453.5	454.0	0.5	0.007	2.5	0.25	34	95	B0046833
Intermediate volcanic unit, weak deformation, very fine grained, weak alteration and 0.1% disseminated pyrite within unit. Small stringers throughout unit, unremarkable \,qtz-carb 0 - 0.1% blebby pyrite within stringers. Unit has quartz eyes / patchy carbonate alteration. Upper and lower contacts are sharp between IVCL units.														
						454.0	454.5	0.5	0.007	2.5	0.25	28	90	B0046834
						454.5	455.0	0.5	0.005	2.5	0.25	33	90	B0046835
Two remarkable veins: 454.40 - 454.42 m, small alteration halo 2 cm within wall rock. Qtz-carb-chlor-pyrr-tour, 3% blebby pyrite. Halo alteration is moderate pervasive sericite.														
458.60 - 458.62 m, qtz-carb-tour-py, 4% blebby pyrite within vein + surrounding alteration halo (458.58 - 458.62), alteration halo is moderate pervasive sericite.														
						458.0	458.5	0.5	0.014	2.5	0.25	34	97	B0046836
						458.5	459.0	0.5	0.016	2.5	0.25	45	102	B0046837
						459.0	459.7	0.7	0.006	2.5	0.25	34	92	B0046838
						459.7	460.38	0.68	0.005	2.5	0.25	11	90	B0046839
460.38	475.4	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	LIGHT GREY	460.38	460.88	0.5	0.015	2.5	0.25	6	122	B0046840
Intermediate volcanoclastic unit, moderate deformation, welded texture, fine grained, grey - light grey in colour. Same unit as IVCL from 441.41 - 451.67 m, clasts are 0.5 - 4 cm in size, angular - sub-rounded (85% are angular). Alteration is moderate patchy chlorite, moderate pervasive carbonate, weak pervasive sericite. Unit has unremarkable qtz-carb 0.1 - 0.3 cm stringers with 0 - 0.5 % blebby pyrite. One vein with 1% blebby pyrite (475.27 - 475.3 m), 3 cm thick, qtz-carb-chlor-py-tour. Overall the unit shows 1% disseminated pyrite.														
						474.4	474.9	0.5	0.0025	2.5	0.25	22	109	B0046841
						474.9	475.4	0.5	0.266	6	0.25	25	109	B0046843
475.4	483.66	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	BEIGE	475.4	475.9	0.5	0.083	2.5	0.25	14	37	B0046844
QFP unit, subtle deformation, subtle alteration, medium grain size, beige in colour. Unit has 0.1 - 0.2 cm qtz-chlor stringers showing 0 - 0.1% blebby pyrite, unit shows 0.5% disseminated pyrite. Subtle fracture-fill chlorite and subtle pervasive potassic alteration along with stringers is present. Porphyritic quartz grains visible.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
483.66	496.56	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	LIGHT GREY									
<p>IVCL unit, moderate deformation, fine grain size, light grey colour, clasts 0.1 - 3 cm, sub-rounded; clasts altering with patchy chlorite and patchy carbonate. Moderate alteration consistent throughout unit. Few 1-2 cm qtz-carb veins, 0.1-0.5% py within veins. Unit shows 0.1 % blebby py and 0.5% disseminated py. Unit's texture becomes more massive towards end of unit. No notable veins. Upper and lower contacts are sharp. Unit is weakly foliated.</p>														
496.56	503.76	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	CREAM									
<p>QFP unit, weakly deformed, medium grain size (quartz and feldspar grains) colour is cream - orange. Unit has weak fracture-fill chlorite stringers throughout the unit, veins are 0.5 - 1 cm thick, show vuggs and 0.5% blebby pyrite within quartz margins. Unit overall shows consistent alt (pot-carb-chlor) and 0.5% disseminated pyrite. Upper contact is sharp, lower contact is gradational.</p>														
503.76	514.22	IVCL, INTERMEDIATE VOLCANICLASTIC	MASSIVE	VERY FINE	GREY	508.0	509.0	1	0.007	2.5	0.25	63	116	B0046431
<p>Possibly an IV unit. Intermediate volcaniclastic unit moderately deformed, very fine grained and grey in colour. Unit has weak breccia texture but is otherwise massive in texture. Clasts within the unit are small, sub-rounded and show weak patchy potassic alteration. Alteration within the unit is minimal, weak pervasive sericite, weak patchy carbonate and subtle fracture-fill chlorite alteration is present. Unit shows 1% disseminated pyrite besides a small area from 512.04 - 512.81 m where there is 2% disseminated pyrite. Quartz veins are qtz-carb-chlor veins with trace blebby pyrite, otherwise unremarkable quartz veins.</p>														
<p>No notable areas.</p>														
						509.0	509.5	0.5	0.012	2.5	0.25	29	106	B0046432
						509.5	510.0	0.5	0.0025	2.5	0.25	26	109	B0046434
						510.0	511.0	1	0.0025	2.5	0.25	29	95	B0046435
						511.0	512.0	1	0.0025	2.5	0.25	33	104	B0046436
						512.0	513.0	1	0.0025	2.5	0.25	32	101	B0046437
						513.0	513.5	0.5	0.0025	2.5	0.25	31	101	B0046438
						513.5	514.22	0.72	0.032	2.5	0.25	43	116	B0046439
514.22	515	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	LIGHT GREY	514.22	514.62	0.4	0.0025	2.5	0.25	15	121	B0046440
<p>A deformation zone within the IV unit, intense deformation, fine grain size and light grey - beige in colour. The unit is moderately foliated and weakly brecciated. Area shows intense pervasive sericite, moderate fracture-fill chlorite and weak patchy carbonate alteration; 3% disseminated pyrite, 1% fracture-fill pyrite and 0.5% blebby sphalerite. Fracture-fill chlorite infills the breccia texture. The unit has a stockwork of crosscutting veins, most are 0.5 - 2 cm thick and show similar mineralization and alteration as the wall rock. Upper and lower contact are both sharp.</p>														
<p>Whole area is a notable area.</p>														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
515	521.75	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	515.0	516.0	1	0.006	2.5	0.25	24	262	B0046442
An intermediate volcanic unit, weakly deformed, very fine grained and grey in colour. Unit is similar to the IV unit from 507.56 - 514.22. Alteration within the unit is minimal, with weak patchy carbonate and weak pervasive sericite. The unit has multiple veins with mineralization, mostly pyrite and sphalerite. Unit shows 0.5% disseminated pyrite, within 517 - 517.55 the unit has 3% disseminated pyrite. 519.11 - 519.54 m, the unit has 6% blebby pyrite and 2% vein-fill sphalerite. Unit has many stringer qtz-carb veins with no sulphides present.						516.0	516.5	0.5	0.03	5	0.25	35	760	B0046443
						516.5	517.0	0.5	0.0025	2.5	0.25	32	382	B0046444
						517.0	517.55	0.55	0.089	12	0.25	210	1,420	B0046445
Notable areas: 517 -517.32 m, area of 3% disseminated pyrite and shows two 2 cm veins, which are slightly irregular and discontinuous.						517.55	519.0	1.45	0.015	12	0.25	72	484	B0046447
519.11 - 519.54 m, two 2 & 5 cm thick qtz-carb-chlor-py-sph vein, showing 6% blebby pyrite and 2% vein-fill sphalerite.						519.0	519.6	0.6	0.367	137	7.6	340	5,250	B0046448
						519.6	520.1	0.5	0.008	2.5	0.25	68	405	B0046449
						520.1	521.0	0.9	0.01	2.5	0.25	63	293	B0046450
						521.0	521.5	0.5	0.006	5	0.25	56	299	B0046451
						521.5	522.0	0.5	0.044	5	1.9	281	1,595	B0046452
521.75	526.46	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	521.5	522.0	0.5	0.044	5	1.9	281	1,595	B0046452
An intermediate volcanoclastic, unit is moderately deformed, fine grained and dark grey in colour. Unit shows clasts which are sub-rounded and moderately elongate along foliation, 1-4 cm in size. Alteration is patchy weak carbonate, moderate fracture-fill chlorite alteration present. Unit shows weak - moderate breccia texture within small localized areas, with moderate fracture-fill chlorite infilling. Unit shows 2% disseminated pyrite and 0.5% fracture-fill sphalerite. .Unit has several small qtz-carb-chlor stringer veins with trace - 0.5% disseminated pyrite.						522.0	522.5	0.5	0.015	6	0.25	37	852	B0046453
						522.5	523.0	0.5	0.03	6	0.7	81	1,795	B0046454
						523.0	524.0	1	0.038	17	1.4	184	1,645	B0046455
Notable areas:						524.0	524.8	0.8	0.005	7	0.25	86	192	B0046456
521.75 - 521.83 m, 3 - 7 cm thick vein (varying thickness) which is irregular shows 2% blebby pyrite within the vein margin.						524.8	525.3	0.5	0.0025	5	0.25	37	141	B0046457
525.36 - 525.54 m, two veins, 3 cm and 9 cm thick, qtz-carb-chlor-py vein, showing 1% blebby pyrite, 0.5% disseminated sphalerite and 0.5% disseminated pyrite within the surrounding wall rock.						525.3	525.8	0.5	0.0025	2.5	0.25	69	104	B0046458
						525.8	526.46	0.66	0.0025	2.5	0.25	90	159	B0046460
526.46	528.38	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	DARK GREY	526.46	527.0	0.54	0.0025	2.5	0.25	36	136	B0046461
An intermediate volcanic, massive texture, weak deformation, very fine grained and dark grey in colour. Unit shows a weak breccia texture with weak fracture-fill chlorite infilling. Alteration is weak pervasive sericite, weak patchy carbonate and weak fracture-fill chlorite. Unit shows 0.5 % disseminated pyrite. Unit shows unremarkable quartz vein stringers, qtz-carb veins. Lower contact is gradational and clasts start to appear within unit.						527.0	528.0	1	0.0025	2.5	0.25	23	134	B0046462
						528.0	529.0	1	0.0025	2.5	0.25	67	152	B0046463

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
528.38	555	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	GREY	528.0	529.0	1	0.0025	2.5	0.25	67	152	B0046463
An intermediate volcaniclastic, weak deformation, weakly foliated with some areas which are massive, grain size is fine and colour is grey - dark grey. Clasts range in size 1 - 4 cm, moderately elongated. Unit shows varying alteration, mainly weak - moderate patchy carbonate, subtle pervasive sericite and weak patchy silica. The unit has several large quartz veins with no stringer veins, veins are qtz-carb-chlor and show 0.5 - 2% blebby pyrite. Unit overall shows 0.5 % blebby pyrite, trace disseminated pyrite and trace fracture-fill sphalerite.						529.0	529.6	0.6	0.0025	2.5	0.25	86	151	B0046464
						540.0	541.0	1	0.005	2.5	0.25	104	182	B0046465
						541.0	541.5	0.5	0.0025	2.5	0.25	102	197	B0046466
Notable areas: 541.68 - 541.76 8 cm thick, qtz-carb-chlor-py vein with 1% blebby pyrite and trace blebby sphalerite. 541.97 - 542.03 m, 4 cm thick, qtz-carb-chlor vein, 1% blebby pyrite. 549.52 - 549.71 m, 19 cm thick, qtz-carb-tour-chlor-py, 3% blebby pyrite, 0.5% fracture-fill pyrite. 553.14 - 553.43 m, four veins, (0.5, 4, 7, 3 cm thickness) qtz-carb-py, 1% blebby pyrite within the vein with 2% blebby pyrite within the surrounding wall rock.						541.5	542.1	0.6	1.48	2.5	0.25	60	169	B0046467
						542.1	543.0	0.9	0.006	2.5	0.25	75	216	B0046468
						543.0	543.5	0.5	0.0025	2.5	0.25	33	104	B0046469
						548.0	549.0	1	0.0025	2.5	0.25	7	141	B0046470
						549.0	549.5	0.5	0.0025	2.5	0.25	5	142	B0046471
						549.5	550.0	0.5	10.25	2.5	0.25	10	153	B0046473
						550.0	551.0	1	0.005	2.5	0.25	6	140	B0046474
						551.0	552.0	1	0.007	2.5	0.25	8	131	B0046475
						552.0	553.0	1	0.119	2.5	0.25	9	146	B0046476
						553.0	553.5	0.5	6.11	2.5	0.25	8	115	B0046477
						553.5	554.0	0.5	0.014	2.5	0.25	4	148	B0046478
						554.0	555.0	1	0.0025	2.5	0.25	5	132	B0046479
555	570.22	IV, INTERMEDIATE VOLCANIC	AMYGDALOIDAL	VERY FINE	DARK GREY	569.0	570.22	1.22	0.016	2.5	0.25	9	89	B0046846
Intermediate volcanic unit, weak deformation, very fine grains, dark grey in colour. Unit has small 0.1 - 0.5 cm amygdaloids of carbonate and silica. Weak alteration is present, carb-silica-chlor-seric. Unit shows 0.1% blebby pyrite and 0.1% disseminated pyrite. Unit shows minor clasts, but not abundant enough to be considered IVCL. Minor qtz-carb stringers with no sulphides, no notable veins. Past 567 m, small healed fractures are present with weak fracture-fill silica along with minor breccia texture. Upper contact between IV and IVCL is gradational, amount of clasts decreasing until contact. Lower contact with QFP is sharp.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
570.22	589.48	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	CREAM	570.22	571.0	0.78	0.007	2.5	0.25	10	22	B0046847
QFP unit showing moderate deformation, medium grain size and cream - grey colour. Alteration varies, pot-serc-chlor-carb; Alteration from 577.62 - 580.79 is weak pervasive carbonate, subtle pervasive potassic and subtle fracture-fill chlorite, the rest of the unit is weak pervasive potassic, weak pervasive carbonate, weak fracture-fill chlorite. Small stockwork vein set with small deformation zone from 575.98 - 576.54, area shows 2% disseminated pyrite, 1% fracture-fill pyrite., a weak breccia texture, moderate fracture-fill chlorite, moderate pervasive sericite and subtle pervasive potassic alteration. Unit shows medium grained quartz and feldspar grains throughout whole unit. Minor vugs show show mineralization. Overall unit shows 0.5% disseminated pyrite until 580.79, which drops to 0.1% disseminated pyrite until 589.48.														
						571.0	572.0	1	0.09	2.5	0.25	7	19	B0046848
						572.0	573.0	1	0.064	2.5	0.25	22	24	B0046849
						573.0	574.0	1	0.151	2.5	0.25	6	26	B0046850
						574.0	575.0	1	0.114	2.5	0.25	5	26	B0046851
						575.0	575.98	0.98	1.81	2.5	0.25	3	28	B0046852
						575.98	577.0	1.02	0.735	2.5	0.25	0.5	26	B0046853
						577.0	578.0	1	0.324	2.5	0.25	2	26	B0046854
						578.0	579.0	1	0.151	2.5	0.25	4	28	B0046856
						579.0	580.0	1	0.349	2.5	0.25	3	31	B0046857
						580.0	581.0	1	0.174	2.5	0.25	5	31	B0046858
						581.0	582.0	1	0.069	2.5	0.25	5	31	B0046859
						582.0	583.0	1	0.027	2.5	0.25	12	38	B0046860
						583.0	584.0	1	0.02	2.5	0.25	8	37	B0046861
						584.0	585.0	1	0.022	2.5	0.25	8	33	B0046862
						585.0	586.0	1	0.007	2.5	0.25	12	47	B0046863
						586.0	587.0	1	0.015	2.5	0.25	10	42	B0046864
						587.0	588.0	1	0.053	2.5	0.25	6	32	B0046865
						588.0	588.98	0.98	0.045	2.5	0.25	10	31	B0046866
						588.98	589.48	0.5	0.091	2.5	0.25	8	24	B0046867
589.48	605.66	IVCL, INTERMEDIATE VOLCANICLASTIC	WELDED	FINE	LIGHT GREY	589.48	590.0	0.52	0.012	2.5	0.25	24	125	B0046869
Intermediate volcanoclastic unit, starts very fine grained and similar to IV with minor clasts, past 593.73 unit has many large clasts. Unit is fine grained, moderately deformed and light grey in colour, a welded texture is present throughout the unit, with small patches of massive clasts. Unit is weakly foliated, elongating some clasts, clasts remain angular - sub-rounded. Alteration is mostly consistent throughout unit, weak patchy silica, moderate patchy carbonate, weak fracture-fill chlorite. Unit has few 0.1 - 03 cm qtz-carb stringer veins showing little mineralization; one qtz-carb-chlor vein from 894.58 - 894.60 shows 1% blebby pyrite within the vein and 1% blebby pyrite within immediate wall rock. Overall the unit shows 0.1% blebby pyrite. Upper and lower contact are sharp.														
605.66	610.06	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY									
Small intermediate volcanic unit, very fine grained, weak deformation, grey in colour and massive texture. Unit has weak alteration, subtle patchy carbonate, subtle patchy chlorite and weak pervasive carbonate. Unit shows trace disseminated pyrite, small qtz-carb-chlor stringers are present but show no mineralization. Upper and lower contacts are sharp. Unit is weakly foliated.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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610.06	612.39	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY									
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Similar unit to 589.48 - 605.66, foliated, moderate deformation, fine grained and light grey in colour. Unit has sparse clasts, elongate and altering to with chlorite and silica; clasts are 0.5 - 2 cm thick and elongate along foliation. Unit is moderately silicified. Unit shows strong patchy silica, moderate pervasive chlorite and weak patchy carbonate. Small unremarkable qtz-carb stringers are present. Upper and lower contacts are sharp. Unit has trace disseminated pyrite.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
612.39	664.74	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	616.5	617.0	0.5	0.0025	2.5	0.25	1	93	B0046480
<p>An intermediate volcanic unit shows moderate deformation, very fine grains and grey - light grey in colour (depending on alteration). Texture is overall massive with slight foliation along the alteration. Unit shows varying alteration and mineralization, changing with proximity to veins and location in the unit. 621.41 carbonate alteration increased from subtle to moderate patchy and dies off at 633.40; from 628.26 - 632.7 m sericite alteration increases from nothing to moderate pervasive sericite. Overall the unit the wall rock does not show any mineralization. Quartz vein sets run from 617.17 - 618.16 m, 624.12 - 624.53 m, 628.26 - 628.49 m, 630.81 - 631.33 m, 631.88 - 632.36 m, 633.62 - 633.68 m. The unit also has many small qtz-carb stringer veins with 0.5% disseminated pyrite. From 633 - 633.40 we see small amounts of clasts and a moderate foliation along the clasts / carbonate alteration.</p>														
<p>From 633.4 - 644.91 m, the unit is an ash tuff, showing subtle patchy carbonate, subtle patchy silica and weak pervasive carbonate. From 644.91 - 646.87 m, the unit becomes more silicified, showing moderate pervasive silica, weak patchy carbonate and weak patchy chlorite. From 646.87 - 657.59 the unit has, subtle patchy carbonate, subtle patchy silica, weak fracture-fill chlorite and weak patchy chlorite. The unit has local alteration around quartz veins, showing weak pervasive chlorite (possibly epidote due to colour) alteration as well as mineralization surrounding veins, mostly 0.5 - 1% blebby pyrite (648.41 - 648.42 & 654.69 - 654.72 m). Past 657.59 the unit becomes very rubbly, alteration picks up to moderate patchy carbonate, weak fracture-fill silica, weak patchy sericite, until the end of the unit at 664.74. From 633.4 - 664.74 unit shows 0.5% blebby pyrite. Lower contact is sharp.</p>														
<p>Notable areas: 628.26 - 628.49 m, vein set, 80% vein, 20% wall rock, qtz-carb-tour-chlor, 2% blebby pyrite. 630.81 - 631.33 m, 3 veins, (three veins, 4, 1, 4 cm thick), qtz-carb-chlor, 3% blebby pyrite, 1% disseminated pyrite. 631.88 - 632.36, vein stockwork, 90% vein, 10% wall rock, qtz-carb-chlor-py-tour, 3% blebby pyrite, 2% fracture-fill pyrite. 633.62 - 633.68, vein set, 90% vein, 10% wall rock, qtz-carb-chlor-py, 2% blebby pyrite.</p>														
<p>624.12 - 624.53 : Quartz Vein, Quartz Vein set, qtz-carb-chlor-tour, 1% blebby pyrite</p>														
<p>630.81 - 631.33 : Quartz Vein, Qtz-carb-chlor vein set, three veins (4, 1, 4 cm thick), 3% blebby pyrite, 1% disseminated pyrite.</p>														
<p>631.88 - 632.36 : Quartz Vein, Irregular Quartz vein set, 90% vein, 10% wall rock, qtz-carb-chlor-py-tour, 3% blebby pyrite, 2% fracture-fill pyrite.</p>														
						617.0	617.5	0.5	0.346	2.5	0.25	1	53	B0046481
						617.5	618.0	0.5	0.007	2.5	0.25	5	93	B0046482
						618.0	618.5	0.5	0.024	2.5	0.25	5	78	B0046484
						618.5	619.0	0.5	0.0025	2.5	0.25	10	72	B0046485
						619.0	619.5	0.5	0.0025	2.5	0.25	4	279	B0046486
						619.5	620.0	0.5	0.0025	2.5	0.25	4	98	B0046488
						620.0	621.0	1	0.0025	2.5	0.25	6	81	B0046489
						621.0	622.0	1	0.005	2.5	0.25	6	86	B0046490
						622.0	623.0	1	0.0025	2.5	0.25	2	85	B0046491
						623.0	624.0	1	0.0025	2.5	0.25	9	75	B0046492
						624.0	624.53	0.53	0.095	2.5	0.25	3	60	B0046493
						624.53	625.0	0.47	0.041	2.5	0.25	32	113	B0046494
						625.0	626.0	1	0.0025	2.5	0.25	7	83	B0046495
						626.0	627.0	1	0.0025	2.5	0.25	7	95	B0046496
						627.0	628.0	1	0.005	2.5	0.25	2	89	B0046497
						628.0	628.6	0.6	1.15	5	0.25	13	78	B0046499
						628.6	629.1	0.5	0.01	2.5	0.25	21	77	B0046500
						629.1	630.0	0.9	0.0025	2.5	0.25	16	87	B0046501
						630.0	630.5	0.5	0.03	2.5	0.25	23	61	B0046502
						630.5	631.0	0.5	1.115	2.5	0.25	19	59	B0046503
						631.0	631.5	0.5	0.117	2.5	0.25	48	157	B0046504
						631.5	632.5	1	2.96	2.5	1.4	34	91	B0046505
						632.5	633.0	0.5	0.126	2.5	0.25	30	125	B0046506
						633.0	633.5	0.5	0.009	2.5	0.25	56	179	B0046507
						633.5	634.0	0.5	0.067	2.5	0.25	15	195	B0046508
						634.0	634.5	0.5	0.579	2.5	0.25	46	137	B0046509
						634.5	635.0	0.5	0.008	2.5	0.25	17	146	B0046510
						635.0	635.5	0.5	0.0025	2.5	0.25	16	146	B0046512

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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664.74	668.8	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY									
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Intermediate volcanoclastic unit, fine grained, green-grey in colour and moderately foliated. Unit has small elongated clasts (0.1 - 1 cm thick but 3-5 cm long), some have a pervasive chlorite halo surrounding them, most have patchy silica alteration within them and follow foliation. Unit has a breccia at the upper contact, showing weak fracture-fill chlorite within this area. The unit has small stringer veins (qtz-carb) showing no sulphides, the unit has 0.1% disseminated pyrite and 0.1 fracture-fill pyrite; weak halo chlorite, weak patchy carbonate and weak pervasive sericite alteration is present. Lower contact is gradational, upper contact is sharp.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
668.8	810.58	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY	669.2	670.0	0.8	0.007	2.5	0.25	9	85	B0046513
Intermediate volcanic unit, moderate deformation, very fine grained and light grey in colour. The unit has a massive texture but has an abundance of healed fractures and is also rather silicified. Alteration varies throughout the unit, from 669.17 - 678.8, moderate fracture-fill silica, subtle patchy carbonate, 678.8 - 683.94, moderate pervasive sericite, moderate - strong fracture-fill silica and weak patchy carbonate, 683.94 - 689.8 moderate fracture-fill silica, subtle patchy carbonate. The unit has few large continuous veins, from 672.67 - 672.89 while the rest are discontinuous, irregular and crosscutting. Overall the unit shows 0.5% disseminated pyrite. From 682.1 - 689.58 m the unit becomes very rubbly. From 689.58 the unit loses the healed fractures, filled with silica. From 689.58 - 694 the unit has an increase in silica pervasive silica alteration (strong pervasive silica) and past 694 grades to subtle pervasive silica. From 696.68 m to 706.72 the unit has an increase of chlorite alteration (grading from weak pervasive to moderate pervasive chlorite). Quartz veins become less abundant and most veins present are more pronounced past 689.58 m.														
706.72 - 724.25 unit is similar to the previous IV, massive, moderate deformation and still very fine grained, alteration changes to moderate fracture-fill chlorite, weak patchy carbonate and weak pervasive carbonate. From 724.25 - 730.02 we see healed fracture similar to previously seen in the unit. Alteration changes to moderate fracture-fill silica, weak patchy carbonate and weak pervasive sericite. 722.05 - 722.59 m, stockwork vein showing qtz-carb-chlor-tour, 1% fracture-fill pyrite. 725.64 - 725.7 m, quartz stockwork vein, qtz-carb-chlor-tour, 0.5% blebby pyrite, 0.5% disseminated pyrite.														
724.25 - 737.04 same IV unit as before with very fine grain size, moderate deformation. Healed fractures are present in moderate amounts; alteration include moderate fracture-fill silica, moderate patchy carbonate, weak pervasive sericite and weak patchy sericite. Unit has small stringers, qtz-carb not remarkable; unit has three veins, (725.64 - 725.7, 728.76 - 728.79 & 729.17 - 729.18 m). Veins show localized mineralization, 1% blebby pyrite, 0.5% disseminated pyrite. Overall unit shows 0.1% disseminated pyrite. Small areas of rubble within this section.														
737.04 - 762, unit has moderate-strong deformation, rubbly, strong alteration, very fine grained and light grey in colour. Unit has moderate patchy carbonate, moderate pervasive sericite and weak-fracture-fill silica. Past 744.42, iron carbonate (ankerite in alteration tab) alteration appears, moderate pervasive sericite, moderate pervasive ankerite and weak patchy carbonate. Iron carbonate disappears past 746 m. 746 - 758.40 m section has moderate pervasive sericite, moderate patchy carbonate and weak fracture-fill sericite. 745 - 761 section has 1% blebby pyrite and 0.5% disseminated pyrite. Large quartz vein, 746.82 - 747.07 m, 3% blebby pyrite, 0.5% fracture-fill pyrite, qtz-carb-tour-chlor-seric.														
762 - 763 strong deformation, light grey in colour due to alteration, strong alteration, fine grain size. Shear material present, section has strong pervasive sericite, moderate fracture-fill silica and weak pervasive carbonate. No sulphides.														
763 - 769 similar unit to 737.04 - 762 m, moderate patchy carbonate, weak pervasive sericite, weak fracture-fill sericite, weak patchy chlorite. Unit shows 0.1 - 0.2 cm qtz-carb stringer veins, no large veins. Unit is weakly foliated, Section shows 0.5% blebby pyrite, 0.1% disseminated pyrite.														
769 - 802, section is same unit as 763 - 769 with stronger alteration / deformation. Unit shows multiple shear fractures (774 - 778 multiples rubbly areas from fractures, smaller ones at 744.51 & 775.35 m). Iron carbonate halos are present are the shear fractures, weak pervasive iron carbonate. Rubble area 774 - 778. Section overall is very fine grained, moderate - strong deformation, moderate alteration and light grey in colour. No remarkable quartz veins, small 0.1 - 0.2 cm stringers exist but no sulphides within them. Section shows similar heal fractures with fracture-fill sericite / silica like previous areas within this unit. Overall section shows 0.1% blebby pyrite, 0.1% disseminated pyrite; moderate fracture-fill sericite, moderate patchy carbonate, moderate pervasive sericite and weak fracture-fill silica.														
802 - 805, very fine grained, dark grey, weak alteration, weak deformation. Weak patchy carbonate, weak fracture-fill sericite, subtle pervasive sericite. Trace disseminated pyrite.														
805 - 806 rubbly area, shear material with strong pervasive sericite, weak patchy carbonate, weak fracture-fill chlorite. No sulphides present.														
806 - 810.58, very fine grained, moderate deformation, weak alteration. Weak patchy carbonate, weak fracture-fill														

Project: Van Horne

Hole Number: VH20-003

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
chlorite, weak pervasive sericite. Small rubbly areas of core. Small qtz-carb stringers, unremarkable. Lower contact with IVCL is sharp. Section shows 0.1% disseminated pyrite.						692.0	693.0	1	0.005	2.5	0.25	15	118	B0046547
Notable areas:						693.0	694.0	1	1.185	2.5	0.25	8	88	B0046549
672.67 - 672.89 m, two veins, 4 / 10 cm thick, qtz-carb-chlor-tour, 0.5% blebby pyrite.						694.0	694.5	0.5	0.146	10	0.25	8	98	B0046551
676.16 - 684.73, stock work veins, crosscutting stringers, discontinuous veins and irregular veins. 30% vein, 70% wall rock. Qtz-carb-chlor-tour, 0.5% blebby pyrite, 0.5% disseminated pyrite.						694.5	695.0	0.5	0.265	2.5	0.25	11	103	B0046552
689.87 - 689.88, 1 cm thick vein, qtz-carb-chlor, trace visible gold, 2% disseminated pyrite (half of this is in the surrounding rock) and 1% blebby pyrite within quartz vein.						695.0	695.5	0.5	0.026	2.5	0.25	3	104	B0046553
690.35 - 690.37 m, two (0.5 cm) veins, 3% blebby pyrite, 1% disseminated pyrite within surrounding wall rock.						695.5	696.0	0.5	0.007	2.5	0.25	11	108	B0046554
690.85 - 690.93 vein set, 80% vein, 20% wall rock, qtz-carb-chlor-tour, 2% blebby pyrite within vein, 1% disseminated pyrite.						696.0	696.5	0.5	0.029	2.5	0.25	4	103	B0046555
693.89 - 693.93 2 cm vein, qtz-carb-chlor, 2% disseminated pyrite, 1% blebby pyrrhotite.						696.5	697.0	0.5	0.024	2.5	0.25	12	121	B0046556
694.95 - 694.96 m, 1 cm thick vein, qtz-carb-chlor, 2% blebby pyrrhotite, 1% disseminated pyrite.						697.0	697.5	0.5	0.0025	2.5	0.25	8	99	B0046557
705.91 - 706.13, 2 veins, (1, 10 cm thick). qtz-chlor-carb, 1% blebby pyrite.						697.5	698.0	0.5	0.0025	2.5	0.25	3	100	B0046558
676.16 - 684.73 : Quartz Vein, Stock work veins, crosscutting stringers, discontinuous veins and irregular veins. 30% vein, 70% wall rock. Qtz-carb-chlor-tour, 0.5% blebby pyrite, 0.5% disseminated pyrite.						698.0	698.5	0.5	0.0025	2.5	0.25	5	113	B0046559
						698.5	699.0	0.5	0.0025	2.5	0.25	5	90	B0046560
						699.0	700.0	1	0.006	2.5	0.25	37	112	B0046562
						700.0	700.5	0.5	0.0025	2.5	0.25	18	89	B0046563
						700.5	701.0	0.5	0.0025	2.5	0.25	4	101	B0046564
						701.0	702.0	1	0.0025	2.5	0.25	13	90	B0046565
						702.0	703.0	1	0.0025	2.5	0.25	1	96	B0046566
						703.0	704.0	1	0.0025	2.5	0.25	24	96	B0046567
						704.0	704.5	0.5	0.0025	2.5	0.25	4	95	B0046568
						704.5	705.0	0.5	0.0025	2.5	0.25	5	94	B0046569
						705.0	705.6	0.6	0.0025	2.5	0.25	4	108	B0046570
						705.6	706.2	0.6	0.175	2.5	0.25	6	76	B0046571
						706.2	706.7	0.5	0.0025	2.5	0.25	7	99	B0046572
						721.0	722.0	1	0.0025	2.5	0.25	9	99	B0046870
						722.0	723.0	1	0.0025	2.5	0.25	11	87	B0046871
						723.0	724.0	1	0.0025	2.5	0.25	8	100	B0046872
						724.0	725.0	1	0.0025	2.5	0.25	6	92	B0046873
						725.0	726.0	1	0.0025	2.5	0.25	8	93	B0046874
						726.0	727.0	1	0.011	2.5	0.25	7	122	B0046875
						745.0	746.0	1	0.089	2.5	0.25	7	67	B0046876
						746.0	746.82	0.82	0.0025	2.5	0.25	16	104	B0046877

Project: Van Horne	Hole Number: VH20-003
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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						746.82	748.0	1.18	0.0025	2.5	0.25	23	85	B0046878
						748.0	749.0	1	0.0025	2.5	0.25	10	105	B0046880

810.58 815.6 IVCL, INTERMEDIATE VOLCANICLASTIC FOLIATED FINE GREEN-GREY
 Intermediate volcanoclastic unit near end of hole, moderate deformation, fine grained size, moderately foliated, green-grey in colour. Unit has clasts, oval shaped, 0.5 - 2 cm thick, elongated along foliation. Clasts have weak chlorite halos and patchy carbonate / silica alteration. Unit overall has moderate fracture-fill chlorite, weak patchy carbonate, weak patchy silica. The unit has small grains of magnetite speckled throughout the unit, causing it to be mostly magnetic. 0.1% disseminated pyrite within unit. Minor stringer veins, no sulphides within them.

815.6 816 IV, INTERMEDIATE VOLCANIC MASSIVE VERY FINE GREY
 End of hole intermediate volcanic unit, weak patchy carbonate, weak fracture-fill chlorite, no sulphides. Small inclusion of IVCL unit from 815.85-815.96 m.

Project: Van Horne **Hole Number:** VH20-004

Drill Hole		Drilling		Coordinates	
Prospect: VH-GLATZ	Operator: KGC EXPLORATION	Start Date: Mar-11-2020	Survey Method: HANDHELD GPS	Grid: NAD83 / UTM zone 15N	
Year: 2020	Geologist: PERCY CLARK	End Date: Mar-15-2020	Drill Company: Major Drilling	Easting: 505,546	
Hole Size: NQ	Casing Depth: 10			Northing: 5,508,478	
Orient: ACT III	EOH: 521			Elevation: 387	
Hole Status: COMPLETE	Logged Depth: 521				

Comments: At 110 meters there was a block error and 113 meters should have been 110. All blocks have been moved back 3 meters and measurements adjusted accordingly.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	10	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-004

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
10	111.7	IVCL, INTERMEDIATE VOLCANICLASTIC	POLYMICITIC	FINE	GREEN-GREY	67.0	68.0	1	0.0025	2.5	0.25	48	87	B0046881
Intermediate volcanoclastic unit, weak deformation, fine grained, green-grey in colour and polymeric. Clasts range in colour, size and composition, 0.5 - 10 cm, an even amount are sub-rounded and angular. Some clasts are elongated along a foliation. Unit has minor faults, mostly surficial faults which show moderate pervasive ankerite alteration halos surrounding them. From 10 - 68.27 unit shows moderate pervasive chlorite, weak patchy carbonate and subtle pervasive sericite (carbonate alteration is effecting the clasts). Section also shows 0.1% fracture-fill pyrite and 0.5% blebby pyrite. Unit has many qtz-carb stringer veins with no sulphides and few large quartz veins, qtz-carb-chlor-tour.						68.0	69.0	1	0.0025	2.5	0.25	41	67	B0046882
						69.0	70.0	1	0.0025	2.5	0.25	47	80	B0046883
						78.0	79.0	1	0.009	2.5	0.25	44	86	B0046884
						79.0	80.06	1.06	0.189	2.5	0.25	41	52	B0046885
68.27 - 68.72, small deformation zone with stockwork veins, (30% vein, 70% wall rock) showing 0.5% disseminated pyrite, 0.1% fracture-fill pyrite; Strong pervasive potassic alteration, moderate pervasive hematite, moderate fracture-fill chlorite alteration. Deformation is strong, fine grain size and red-brown in colour.						80.06	80.63	0.57	0.72	10	0.25	78	54	B0046886
						80.63	81.41	0.78	0.603	12	0.5	16	44	B0046887
68.72 - 79.36 Same unit as 10 - 68.27 m, clasts appear to be rounder. Alteration / mineralization is consistent. Vein with minor vugs + 0.5% fracture-fill pyrite at 75.24 - 75.27 m						81.41	82.0	0.59	0.056	2.5	0.25	79	83	B0046888
						82.0	83.0	1	0.0025	2.5	0.25	62	84	B0046889
79.36 - 81.67 m small deformation zone, deformation / alteration is increased, section displays moderate fracture-fill chlorite, weak pervasive sericite, and weak pervasive carbonate. Veins within unit are qtz-carb-tour-seric-chlor alteration, overall showing 1% blebby pyrite and 0.5% disseminated pyrite. Veins make up 40% of section. Clasts within section are more compact, smaller in width and showing more alteration with patchy sericite. Veins within unit show moderate patchy tourmaline.														
81.67 - 88.60 intermediate volcanoclastic unit, weak deformation, fine grain size and moderate alteration. section displays moderate pervasive sericite, moderate fracture-fill chlorite and weak pervasive carbonate. Clasts are 1-3 cm in width, angular - sub-rounded. Unit has qtz-carb stringer veins, showing no sulphides, mineralization in whole section is trace disseminated pyrite.														
88.60 - 89 m, small deformation zone, surrounding a small quartz vein, very fine grained, strong pervasive sericite, weak patchy chlorite and weak fracture-fill chlorite. Zone has 0.1% fracture-fill pyrite.														
89 - 104.16 m, moderate deformation, very fine grain size. Clasts are 1-3 cm in width, sub-rounded and becoming elongate within the last few meters of the unit. Moderate pervasive chlorite and weak pervasive sericite is consistent throughout the whole section but patchy carbonate increases until 104.16 m from weak to moderate. 0.5% disseminated pyrite within the whole section. Section is different from previous sections within this unit due to grain size becoming finer and alteration becoming stronger towards end.														
104.16 - 111.7 unit becomes very fine grained, dark grey in colour, clasts amount decreases rapidly. Section has strong patchy carbonate, weak pervasive chlorite and weak patchy silica. unit shows 0.5% disseminated pyrite and 0.1% blebby pyrite. Clasts are dark in colour, sub-rounded and 0.5 - 2 cm thick, Veins disappear, showing only few qtz-carb string veins which are discontinuous. Gradational contact into intermediate volcanic unit at 111.7 m.														
111.7	118.9	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	DARK GREY									
Intermediate volcanic unit, shows very minor amount of clasts from gradational contact of last unit. Unit is dark grey, weak deformation, very fine grained and massive in texture. Moderate patchy carbonate, weak pervasive chlorite and weak pervasive sericite. Unit shows 1% disseminated pyrite within wall rock and 0.1% disseminated pyrite within qtz-carb stringer veins. No large veins within the unit, sharp lower contact between IV and QFP..														

Project: Van Horne

Hole Number: VH20-004

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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118.9 128.13 QFP, Quartz-Feldspar Porphyry PORPHYRITIC MEDIUM CREAM

QFP unit, weak deformation, medium grain size, porphyritic texture (feldspars and quartz grains) and cream in colour. Unit shows 0.5% disseminated pyrite within host rock, and trace disseminated pyrite within veins / stringer veins. Unit has small chlorite fracture-fill stringer veins throughout the unit, few qtz-carb veins in unit show weak alteration. Unit has subtle alteration, subtle patchy carbonate, subtle pervasive potassic (Which appears only in the middle of the unit) and subtle patchy chlorite alteration.

128.13 160.06 IV, INTERMEDIATE VOLCANIC AMYGDALOIDA L VERY FINE DARK GREY 159.0 160.0 1 0.0025 2.5 0.25 14 65 B0046890

Intermediate volcanic unit, very fine grained, weak deformation, and dark grey in colour. Unit shows amygdaloidal texture with varying size and shape amygdules with carbonate / silica infill. Unit shows moderate alteration, moderate patchy carbonate, weak pervasive sericite and weak fracture-fill chlorite; alteration is consistent throughout the unit. Veins 137.91 - 137.95, 140.24 - 140.28 and 142.71 - 142.74 m show fracture-fill chlorite and subtle amounts of tourmaline and 0.5 % disseminated pyrite; qtz-carb stringer veins are present throughout the unit, most are not mineralized. Unit has 0.5% disseminated pyrite throughout. Upper contact of the unit is sharp, lower contact is not a change in lithology but the unit is different enough to warrant its own section.

160.06 167.35 IV, INTERMEDIATE VOLCANIC MASSIVE VERY FINE GREY 160.0 160.5 0.5 0.0025 2.5 0.25 25 86 B0046891

Intermediate volcanic unit, very fine grained, grey in colour, massive texture. Different from the previous IV from 128.13 - 160.06 due to lack of amygdaloids. Unit has consistent alteration throughout the unit, weak patchy carbonate, moderate patchy chlorite and subtle pervasive sericite. Quartz veins show localized mineralization and alteration. 168.06 - 168.16, 162.84 - 162.90 and 167.33 - 167.35 show qtz-carb-chlor-tour-seric with 0.5 - 1% blebby pyrite and 1% disseminated pyrite. 162.84 - 162.9 has a small moderate sericite halo surrounding the vein. Overall the unit shows trace disseminated pyrite within the wall rock.

Upper contact of this unit is not a change in lithology but instead a change in texture / alteration which warranted its own tab. Lower contact of unit is sharp.

167.35 175.45 IVCL, INTERMEDIATE VOLCANICLASTIC MASSIVE FINE LIGHT GREY 172.0 172.5 0.5 0.0025 2.5 0.5 6 93 B0046593

Intermediate volcanoclastic unit which is weakly deformed, fine grained and grey in colour. Texture is mostly massive with small areas of brecciation and weak foliation.

From 167.35 - 171, clasts are sub-rounded, 0.5 - 2 cm and altering with patchy carbonate. Unit is very fine grained and shows moderate patchy carbonate, weak patchy chlorite and weak pervasive sericite. Unit shows 1% disseminated pyrite

171 - 175.45 The clasts within the unit are mostly sub-rounded and not elongate, 5% are slightly elongate along a foliation. Most clasts are surrounded by moderate halo chlorite alteration. Clasts are sparse, most are 2 - 5 cm in width. Alteration is weak within the unit, showing weak - moderate patchy carbonate in some areas and some small areas showing moderate pervasive carbonate alteration. Unit shows 0.1% fracture-fill pyrite and 0.5% disseminated pyrite.

No notable areas.

Project: Van Horne

Hole Number: VH20-004

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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175.45	177.03	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	RED-BROWN	175.45	176.0	0.55	0.011	2.5	0.25	7	105	B0046598
<p>Deformation zone within IVCL unit, strongly foliated, showing intense deformation, is very fine grained and red-brown in colour. The clasts within the unit disappear past 176 due to alteration and deformation; from 175.45 - 176 clasts are elongate and pinched to 0.5 - 1 cm in width and follow a strong foliation. Past 176.38 alteration and deformation decrease until 177.03 where the deformation and alteration have mostly dissipated. Unit shows strong alteration from 176 - 176.38. From 176 - 176.38 there is a vein set; the unit overall shows 2% disseminated pyrite. Upper and lower contact are sharp.</p>														
						176.0	176.5	0.5	0.407	2.5	1.3	596	83	B0046599
						176.5	177.03	0.53	0.012	5	0.25	61	128	B0046600

Notable areas: 176 - 176.38 m, Quartz Vein set, 176 - 176.38, 60% vein, 40% wall rock, qtz-carb-pot-serc-chlor-py, 3% fracture-fill pyrite, 1% disseminated pyrite.

176.0 - 176.38 : Quartz Vein, Quartz vein set 179 - 179.38, 60% vein, 40% wall rock, qtz-carb-pot-serc-chlor-py, 3% fracture-fill pyrite, 1% disseminated pyrite.

177.03	199.03	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	177.03	178.0	0.97	0.0025	2.5	0.5	47	107	B0046601
<p>A different volcaniclastic unit from the previous unit at 167.35 - 175.45 m, showing more deformation and larger / more abundant clasts. Wall rock is deformed and altered more than unit from 167.35 - 175.45 m, showing moderate deformation and moderate alteration, pertaining to both wall rock and clasts. Clasts are 0.5 - 4 cm in thickness, angular - sub-rounded and some may possibly be wall rock from the previous IV unit 128.13 - 160.06 m</p>														
						178.0	178.5	0.5	0.0025	9	0.6	54	121	B0046603
						178.5	179.1	0.6	0.0025	6	0.25	55	124	B0046604

Unit is both moderately foliated and weakly brecciated throughout, moderate fracture-fill chlorite is present within the brecciation areas; unit also has a fine grained size and green-grey in colour. Clasts show weak halo carbonate and moderate patchy carbonate (patchy carbonate affecting both wallrock and clasts). Some clasts are possibly amygdaloids (small round carb / silica clasts) which make up 35% of clasts. From 178.48 - 178.57 the unit has a small quartz vein with 5% blebby pyrite within the host rock, and 0.5 % fracture-fill pyrite within the vein. Past 179 m, unit shows few qtz-carb stringers and no large veins.

Unit shows 0.5% disseminated pyrite until 191.25 which transitions to 1% disseminated pyrite, trace blebby pyrite.

Notable areas: 178.48 - 178.57, 3 cm thick vein, qtz-carb-chlor, 0.5% fracture-fill pyrite within the vein, 5% blebby pyrite within the lower surrounding wall rock. Area with pyrite ends at 178.57, vein ends at 178.51 m.

199.03	200.32	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	DARK GREY									
<p>Intermediate volcanic unit, very fine grained, weak deformation, massive texture and dark grey in colour. Unit has no quartz veins. Unit displays weak patchy carbonate and subtle fracture-fill chlorite. The upper contact is sharp while the lower contact is semi-irregular and undulose. Overall the unit has 0.1% fracture-fill pyrite and 0.1% disseminated pyrite.</p>														

200.32	202.54	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY									
<p>Same unit as 177.03 - 199.03, Moderate fracture-fill chlorite, moderate patchy carbonate and weak pervasive sericite. Unit shows 0.1% blebby pyrite and 0.1% disseminated pyrite. Clasts are 0.5 - 3 cm thick, sub-rounded to angular and of similar composition to 177.03 - 199.03 clasts. Unit has small qtz-carb stringer veins, unremarkable.</p>														

Project: Van Horne

Hole Number: VH20-004

From	To	Lithology	Texture	Grain Size	Colour	From	To Length	Au	As	Ag	Cu	Zn	Sample
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202.54	215.67	IVCL, INTERMEDIATE VOLCANICLASTIC	MASSIVE	VERY FINE	LIGHT GREY								
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Possibly an IV unit. Intermediate volcanoclastic unit, very fine grained, weak deformation, massive texture and light grey in colour. Unit is separate from the next unit due to small amount of clasts present. Unit has 0.1 - 0.3 cm angular dark grey clasts throughout the unit, unit also has larger 1-3 cm clasts but are not as common. Unit has small massive very fine grained areas with no clasts, possibly volcanics within the unit, 20% and 80% volcanoclastic unit. Unit has few small qtz-carb stringer showing no mineralization, host rock shows 0.5% disseminated pyrite and 0.1% blebby pyrite. Unit overall shows weak patchy chlorite, weak patchy silica and subtle patchy carbonate.

215.67	221	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY								
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Intermediate volcanic unit, massive texture, subtle deformation, very fine grained and grey in colour. Unit has a large quartz vein set, from 215.78 - 218.25, veins make up 5% vein, 95% wall rock. Veins show qtz-carb-chlor and 0.5% disseminated pyrite within the quartz margins and surrounding wall rock. Unit has weak patchy carbonate and subtle fracture-fill chlorite. Unit overall has 1% disseminated pyrite. Upper contact is sharp, lower contact is gradational.

216.19 - 218.25 : Quartz Vein, Quartz vein set, 5% vein, 95% wall rock.

221	246.27	IVCL, INTERMEDIATE VOLCANICLASTIC	MASSIVE	FINE	GREY								
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60% volcanoclastic unit, 40% volcanic unit same unit as from hole 1, 474.08 - 482.7 m. Unit has a massive texture, and slightly foliated. Areas that are volcanic are very fine grained, moderate alteration and show a massive texture. Volcanoclastic areas are weakly foliated and show moderate alteration / deformation. Clasts within the unit are sub-rounded which have patchy silica alteration, as well as 1-5 cm rounded clasts which are intermediate composition with small quartz amygdaloids; Small areas have clasts which appear like the clasts from 10 - 111.7 m within hole 4, sub-angular and brown-red in colour. Alteration in unit alternates in intensity but not type. The unit shows moderate patchy carbonate, moderate fracture-fill chlorite and weak pervasive sericite. Unit overall shows 0.1% fracture-fill pyrite and 1% disseminated pyrite.

246.27	247.89	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY								
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Intermediate volcanoclastic unit with moderate deformation, fine grain size and is grey in colour. Unit has angular - sub-rounded clasts, 0.5 - 4 cm in width, 75% are slightly elongated while 25% are not. Before 245.41 m, clasts are less abundant and become increasingly abundant until 247.89 where there is a gradational contact between the IVCL and IV units. Unit is weakly foliated, shows small patches of brecciation and has small areas of a massive texture. The unit has weak alteration, and has 0.5% disseminated pyrite within the unit. The unit has weak patchy potassic alteration altering some clasts. The unit has several small veins with minor vugs, qtz-carb-chlor and trace 2% disseminated pyrite. Veins at 245.41 - 245.43 m, 246.2 - 246.27 m.

No notable areas.

Project: Van Horne						Hole Number: VH20-004								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
247.89	254.62	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	247.89	249.0	1.11	0.0025	2.5	0.25	25	75	B0046573
Intermediate volcanic unit, weak deformation, very fine grained and grey in colour. Unit shows massive texture throughout unit with small areas of brecciation from 254-254.62 m, at the contact between the IV and IVCL. Unit shows weak alteration throughout the whole unit, with subtle amounts of potassic and carbonate alteration localized around veins. Veins throughout the unit include stringers and large veins: 249.64 - 249.72 m, 250.64 - 250.81 m, 251.59 - 251.76 m, 252.05 - 252.41 m, 252.83 - 252.89 m. Unit overall shows trace disseminated pyrite, with mineralization increasing within quartz veins.						249.0	249.5	0.5	0.0025	2.5	0.25	10	77	B0046574
Notable areas: 249.64 - 249.72 m, two veins, (3 & 2 cm thick) qtz-carb-chlor-pot, 2% disseminated pyrite (within veins and surrounding wall rock). 250.64 - 250.81 m, 15 cm, qtz-carb-tour-pot-chlor, 3% blebby pyrite within vein, trace disseminated pyrite within wall rock. 251.59 - 251.76 m, 16 cm, qtz-carb-tour vein, trace disseminated pyrite within vein. 252.83 - 252.89 m, 7 cm thick, qtz-carb-chlor, trace disseminated pyrite in vein margins and surrounding wall rock.						249.5	250.0	0.5	0.0025	2.5	0.25	18	77	B0046575
						250.0	250.5	0.5	0.101	2.5	0.25	82	90	B0046577
						250.5	251.0	0.5	0.015	2.5	0.25	13	50	B0046578
						251.0	251.5	0.5	0.0025	2.5	0.25	14	79	B0046579
						251.5	252.0	0.5	0.0025	2.5	0.25	4	60	B0046580
						252.0	252.5	0.5	0.0025	2.5	0.25	10	85	B0046581
						252.5	253.0	0.5	0.0025	2.5	0.25	4	77	B0046582
						253.0	253.5	0.5	0.0025	2.5	0.25	14	72	B0046583
						253.5	254.0	0.5	0.019	2.5	0.25	35	75	B0046584
						254.0	254.62	0.62	0.006	2.5	0.25	63	104	B0046585
254.62	262.27	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	254.62	255.2	0.58	0.012	2.5	0.25	132	84	B0046586
Intermediate volcanoclastic unit similar to the IVCL from 246.27 - 247.89 m, weakly foliated, moderately deformed, fine grained and light grey in colour. unit displays clasts similar to the previous IVCL unit, angular - sub-rounded, (0.5 - 4 cm in width) and mostly elongate. The breccia texture is present within localized areas of the unit with moderate fracture-fill chlorite within these zones. Unit shows moderate alteration; moderate pervasive potassic alteration is present from 254.62 - 255.52 m. The unit has many stringer veins and vein large veins: 254.70 - 254.72, 254.85 - 254.89, 255.44 - 255.52. Unit overall shows trace disseminated pyrite. Unit ends due to clast amount in next unit. Lower contact is gradational.						255.2	255.8	0.6	0.187	2.5	0.25	30	46	B0046587
Notable areas: 254.7 - 254.72 m, 2 cm thick, qtz-carb-chlor-pot, 1% disseminated pyrite within vein. 254.85 - 254.89 m, 3 cm thick, qtz-carb-chlor-pot alteration, 1% disseminated pyrite within vein and surrounding wall rock. 255.44 - 255.52 qtz-carb-tour-chlor, 1% disseminated pyrite within the veins, moderate pervasive potassic alteration in surrounding wall rock.						255.8	256.3	0.5	0.005	2.5	0.25	28	99	B0046588
						256.3	257.0	0.7	0.017	2.5	0.25	16	91	B0046590
						257.0	258.0	1	0.007	2.5	0.25	25	97	B0046591
						258.0	259.0	1	0.006	2.5	0.5	24	100	B0046592
262.27	268.19	IVCL, INTERMEDIATE VOLCANICLASTIC	MASSIVE	FINE	GREY									
Intermediate volcanoclastic unit similar to the unit from 221 - 246.27 m. Unit shows small areas of massive, very fine grained volcanics with no clasts. Unit has mostly a massive texture. Unit has small sub-angular to sub-rounded clasts altering prominently with patchy chlorite. Unit has 90% clastic areas and has 10% volcanic areas. Unit has moderate patchy chlorite, weak patchy carbonate and weak pervasive chlorite alteration. Upper and lower contact of IVCL is gradational. Unit shows 2 quartz veins, both are qtz-carb, show subtle specks of tourmaline and trace disseminated pyrite. Unit overall has 0.5% disseminated pyrite and 0.1% blebby pyrite. A weak foliation is present. Past 268.19 is a change in clast size / alteration.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
268.19	282.05	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY	269.5	270.0	0.5	0.0025	2.5	0.25	5	120	B0046897
Intermediate volcanoclastic unit with 2/3 being foliated and 1/3 being brecciated from 274.05 - 278.60 m. Unit from 268.19 - 274.05 has clasts similar to 177.03 - 199.03 m. Clasts are sub-rounded and are the same composition as the wall rock. Unit shows moderate fracture-fill chlorite, weak patchy carbonate and moderate pervasive chlorite alteration until 274.05. This area shows 1% blebby pyrite, and has a qtz-carb-chlor-tour vein from 270.25 - 270.36 m, showing moderate vugs and 1% blebby pyrite.														
274.05 - 278.6 m breccia is present, showing strong deformation, this section shows strong fracture-fill iron carbonate, moderate patchy chlorite, weak pervasive chlorite and weak pervasive sericite. The clasts are 0.5 - 3 cm thick, but become more elongate towards the end of the section. Unit shows 1% blebby pyrite and 0.5% disseminated pyrite. A large vein from 273.94 - 274.05 acts as the boundary between the previous section and this one. Section grades back into a massive volcanoclastic unit until 282.05.														
278.60 - 282.05, unit shows clasts similar to breccia without the fracture-fill alteration. Clasts are small, 0.5 - 1 cm thick with weak patchy chlorite altering them. Section shows moderate pervasive chlorite, weak patchy carbonate and weak patchy silica. Weak foliation is present. 0.1% disseminated pyrite present.														
269.5						270.0	271.0	1	0.0025	2.5	0.25	10	122	B0046898
						271.0	272.0	1	0.0025	2.5	0.25	6	119	B0046899
						272.0	273.0	1	0.0025	2.5	0.25	23	95	B0046901
						273.0	273.5	0.5	0.0025	2.5	0.25	27	92	B0046902
						273.5	274.5	1	0.0025	2.5	0.25	40	85	B0046903
						274.5	275.5	1	0.0025	2.5	0.25	79	89	B0046904
						275.5	276.5	1	0.0025	2.5	0.25	42	91	B0046905
						276.5	277.5	1	0.0025	2.5	0.25	33	91	B0046906
282.05	288.28	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	282.05	283.0	0.95	0.0025	9	0.25	15	88	B0046908
An intermediate volcanic unit, mostly massive with small areas showing an amygdaloid texture. Unit is fine grained, has moderate deformation and is light grey in colour. Unit has moderate patchy carbonate, moderate fracture-fill iron-carbonate (ankerite in alteration tab) and weak pervasive chlorite alteration. Unit has many qtz-carb stringer veins and many larger quartz veins / stockwork veins. Quartz veins runs from 285.18 - 285.47 m, 286.43 - 286.46 m, and 286.70 - 286.81 m show trace blebby pyrite. Veins show qtz-carb-chlor, vein from 286.70 - 286.81 shows weak hematite staining surrounding the vein. Unit shows trace disseminated pyrite.														
						283.0	284.09	1.09	0.151	2.5	0.25	8	88	B0046909
						284.09	285.0	0.91	0.0025	2.5	0.25	3	96	B0046910
						285.0	286.0	1	0.0025	2.5	0.25	1	94	B0046911
						286.0	287.0	1	0.0025	2.5	0.25	3	60	B0046912
						287.0	287.5	0.5	0.0025	2.5	0.25	17	85	B0046913
288.28	306.84	IV, INTERMEDIATE VOLCANIC	AMYGDALOIDAL	VERY FINE	GREY	294.0	295.0	1	0.0025	2.5	0.25	32	83	B0046914
Intermediate volcanic unit with 3 distinct areas of alteration. Unit overall has moderate deformation, very fine grain size, grey - beige in colour and amygdaloidal texture. The unit has small areas of massive volcanics and small areas which appear to be clastic. From 288.28 - 289.60 the unit appears slightly massive with clasts that are similar to 268.19 - 282.05 m; showing weak fracture-fill carbonate, subtle pervasive sericite and weak fracture-fill chlorite. From 289.6 - 293.78 the unit has moderate to strong fracture-fill iron carbonate similar to the "breccia" area in unit 268.19 - 282.05 m; unit showing strong fracture-fill iron carbonate (ankerite in alteration tab) weak patchy chlorite and weak patchy carbonate. From 293.78 - 306.84 this section is an amygdaloidal basalt intermediate volcanic unit, amygdales of silica / carbonate are seen throughout the whole unit. Section shows strong patchy carbonate, weak patchy chlorite and weak fracture-fill iron carbonate (ankerite in alteration tab).														
Unit before 293.78 shows 0.1% blebby pyrite, past 293.78 0.5% blebby pyrite and 0.5% disseminated pyrite are present. Small vein set at 295.68 - 296.04 showing 0.5% blebby pyrite, qtz-carb-chlor-tour.														
Small alteration patch from 302.15 - 302.52 showing weak pervasive sericite, weak pervasive potassic and weak pervasive epidote (?) alteration.														
						295.0	296.04	1.04	0.013	2.5	0.25	39	83	B0046915
						296.04	297.0	0.96	0.0025	2.5	0.25	56	92	B0046916
						297.0	298.0	1	0.0025	2.5	0.25	57	91	B0046917
						306.0	306.84	0.84	0.005	2.5	0.25	27	99	B0046918

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
306.84	315.04	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	306.84	308.0	1.16	0.047	2.5	0.25	81	90	B0046919
Intermediate volcanic unit similar to the unit from 282.05 - 288.28 m, massive texture, moderate deformation, very fine grained and grey in colour. Unit displays weak patchy carbonate, weak pervasive chlorite and weak fracture-fill silica alteration. The unit has many stringer qtz-carb veins, show showing vugs and 2% vein-fill pyrite (307.65 and 307.71 m). Unit has many large veins qtz-carb-chlor-tour, showing 0.1 - 1% fracture-fill pyrite and 1-3% blebby pyrite. Large veins at 309.60 -309.64, 309.81 - 309.85, 313.61 - 313.69, 314.79 - 315.04 m. Overall unit shows 0.5 blebby pyrite.						308.0	309.0	1	0.008	2.5	0.25	32	90	B0046921
						309.0	310.0	1	0.082	2.5	0.25	19	90	B0046922
						310.0	311.0	1	0.0025	2.5	0.25	27	82	B0046923
						311.0	312.0	1	0.0025	2.5	0.25	39	90	B0046924
						312.0	313.0	1	0.007	2.5	0.25	27	92	B0046925
						313.0	314.0	1	0.377	2.5	0.25	78	93	B0046926
						314.0	315.04	1.04	0.683	2.5	0.25	14	99	B0046927

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
315.04	407.84	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	315.04	316.0	0.96	0.0025	2.5	0.25	37	116	B0046928
315.04 - 338 Section is a foliated volcanic unit with moderate deformation, moderate alteration, fine grained size and green-grey. Section has moderate patchy chlorite, weak patchy carbonate and moderate pervasive carbonate. Past 335.43 alteration increases to moderate patchy chlorite, moderate patchy carbonate and weak pervasive carbonate. Small patches of strong patchy carbonate (336.66 - 338) Unit has a small vein set from 328.56 - 328.93 m, showing 1% blebby pyrite and 0.5% fracture-fill pyrite, qtz-carb-chlor-tour, 40% vein, 60% wall rock. Weak fracture-fill tourmaline stringers are present within this area. Section overall has many small stringer veins, qtz-carb with no mineralization. Unit overall shows 0.1% blebby pyrite and 0.1% disseminated pyrite. Small rubbly areas from 329 - 330.15 m and 338.2 - 339 m. Vein from 339.21 - 339.45 qtz-carb-pot-chlor vein, 0.5% blebby pyrite 60% vein, 40% wall rock.						327.5	328.5	1	0.0025	2.5	0.25	24	110	B0046929
						328.5	329.0	0.5	0.0025	2.5	0.25	29	94	B0046930
						329.0	330.0	1	0.0025	2.5	0.25	9	84	B0046931
						338.0	339.0	1	0.0025	2.5	0.25	6	102	B0046932
						339.0	340.0	1	0.0025	2.5	0.25	6	86	B0046934
Intermediate volcanic unit similar to the unit from hole 3 (669.17 - 706.72) showing the healed fractures textures from 338 - 349 m. The unit shows mostly moderate deformation with small zones of brecciation (351.45 - 352.5) and minor clasts appearing within the zone. The unit has a massive texture, showing a subtle foliation from 352 - 361.33 m. Past 361.33 m, the unit becomes very fine grained and massive in texture. Alteration and mineralization vary within unit, mostly due to proximity to veins. The unit has many stockwork veins, stringers and three notable veins. Quartz veins run from 344.64 - 344.80, 344.86 - 348.8, 351.76 - 359.35, 359.95 - 359.13, 360.8 - 360.97, 362.82 362.85, 366.61 - 366.83 m. Most of the unit is comprised of two large stockwork vein sets, 344.86 - 348.8 and 351.76 - 359.35 m						340.0	341.0	1	0.0025	2.5	0.25	0.5	88	B0046935
						344.0	344.5	0.5	0.0025	2.5	0.5	23	100	B0046606
						344.5	345.2	0.7	0.0025	2.5	0.25	21	101	B0046607
						345.2	346.0	0.8	0.0025	2.5	0.25	1	70	B0046608
						346.0	346.5	0.5	0.0025	2.5	0.25	7	68	B0046609
369 - 407.84 These units appear to be 70% intermediate volcanics and 30% massive mafic volcanics. Unit is consistently volcanic with two alternating volcanic units showing. First unit is a massive very fine grained mafic volcanic unit. Unit shows subtle deformation, weak alteration and green-grey colour; unit has weak patchy carbonate, weak pervasive sericite and subtle fracture-fill carbonate. Second unit is an massive intermediate volcanic, moderate - strong patchy carbonate, moderate pervasive chlorite and weak pervasive sericite. The massive intermediate unit makes up 70% of the section, while the massive volcanic makes up 30% of the section. The section overall shows 0.5% blebby pyrite, 0.5% disseminated pyrite and 0.1% fracture-fill pyrite. Unit has many stringer veins, qtz-carb with 0.1 - 0.5% fracture-fill pyrite. Large qtz-carb-chlor veins like 377.44 - 377.57 m are present but only show 0.5% blebby pyrite. Some larger veins in the unit show strong halo epidote, 396.15-396.19, 401.90 - 401.92 Lower contact is sharp between IV and QFP.						346.5	347.0	0.5	0.0025	2.5	0.25	9	67	B0046610
						347.0	347.5	0.5	0.0025	2.5	0.25	4	73	B0046611
						347.5	348.0	0.5	0.0025	2.5	0.25	0.5	73	B0046612
						348.0	349.0	1	0.0025	2.5	0.5	11	77	B0046613
						349.0	350.0	1	0.0025	2.5	0.5	23	121	B0046614
						350.0	350.9	0.9	0.0025	2.5	0.25	8	131	B0046616
Notable areas: 362.95 - 363.13, 17 cm thick, qtz-carb-chlor-tour, 1% fracture-fill pyrite, 1% disseminated pyrite. 360.80 - 360.97, 16 cm thick, qtz-carb-chlor-tour-serc-pot, 2% blebby pyrite, 1% fracture-fill pyrite. 362.82 - 362.85 m, 3 cm thick, qtz-carb-serc vein, 3% disseminated pyrite, 0.5% fracture-fill pyrite. 366.61 - 366.83, vein set, 70% vein, 30% wall rock, qtz-chlor-sph-py-carb, 5% fracture-fill sphalerite, 2% blebby pyrite, 0.5% disseminated pyrite. (sphalerite is possibly rusted and weathered pyrite).						350.9	351.45	0.55	0.0025	2.5	0.25	39	125	B0046617
						351.45	352.0	0.55	0.0025	2.5	0.25	92	165	B0046618
						352.0	352.5	0.5	0.0025	2.5	0.25	87	136	B0046619
						352.5	353.0	0.5	0.0025	2.5	0.25	42	138	B0046620
						353.0	353.5	0.5	0.01	2.5	0.25	17	114	B0046621
						353.5	354.0	0.5	0.0025	2.5	0.25	5	108	B0046622
						354.0	354.5	0.5	0.0025	2.5	0.25	8	103	B0046623
						354.5	355.0	0.5	0.0025	2.5	0.25	10	111	B0046624
						355.0	356.0	1	0.0025	2.5	0.25	10	141	B0046625
						356.0	357.0	1	0.0025	2.5	0.25	15	134	B0046626
						357.0	358.0	1	0.0025	2.5	0.25	15	135	B0046627
						358.0	358.5	0.5	0.0025	2.5	0.25	7	145	B0046629
						358.5	359.2	0.7	0.006	2.5	0.8	180	110	B0046630
						359.2	359.7	0.5	0.016	15	0.25	78	137	B0046631

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						359.7	360.2	0.5	0.022	11	0.6	49	110	B0046632
						360.2	360.7	0.5	0.023	10	0.25	73	172	B0046633
						360.7	361.2	0.5	0.85	6	0.25	19	105	B0046634
						361.2	361.7	0.5	0.523	2.5	0.25	10	86	B0046635
						361.7	362.35	0.65	0.027	2.5	0.25	4	135	B0046636
						362.35	363.0	0.65	0.18	34	1.9	210		B0046637
						363.0	364.0	1	0.035	2.5	0.7	48	277	B0046638
						364.0	365.0	1	0.0025	2.5	0.7	31	167	B0046640
						365.0	366.0	1	0.006	2.5	0.25	50	369	B0046641
						366.0	367.0	1	0.211	2.5	27.1	2,330		B0046642
						367.0	368.0	1	0.006	2.5	0.6	99	1,790	B0046643
						368.0	369.0	1	0.009	2.5	1.6	104	2,610	B0046644
						406.0	407.0	1	0.0025	2.5	0.25	38	94	B0046936
						407.0	407.84	0.84	0.195	2.5	0.6	22	121	B0046937
407.84	417.88	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC MEDIUM	CREAM		407.84	409.0	1.16	0.282	2.5	0.25	9	23	B0046938
		QFP unit, show weak deformation, medium grain size, cream colour and porphyritic feldspar / quartz grains. Unit has weak fracture-fill chlorite, moderate patchy chlorite and weak pervasive potassic alteration. The fracture-fill chlorite alteration comes in as small black stringer veins. Unit has few small stringer qtz-chlor veins 0.1 - 0.2 cm in width and show 0.5 - 1% disseminated pyrite. Unit has few small quartz veins with 1-3 % disseminated pyrite. Overall the unit shows 2% disseminated pyrite and 0.1% fracture-fill pyrite within the rock. Lower and upper contacts are sharp.				409.0	410.0	1	0.026	2.5	0.25	11	22	B0046939
						410.0	411.0	1	0.012	2.5	0.25	9	31	B0046940
						411.0	412.0	1	0.096	2.5	0.25	10	33	B0046941
						412.0	413.0	1	0.633	2.5	0.25	12	42	B0046942
						413.0	414.0	1	0.042	2.5	0.25	13	39	B0046943
						414.0	415.0	1	1.185	2.5	0.25	9	27	B0046944
						415.0	416.0	1	0.153	2.5	0.25	7	26	B0046945
						416.0	417.0	1	1.095	2.5	0.25	11	24	B0046947
						417.0	417.88	0.88	0.051	2.5	0.25	18	29	B0046948

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
417.88	455.97	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	417.88	418.5	0.62	1.18	2.5	0.6	42	110	B0046949
<p>An intermediate volcanic unit with alternating beds of mafic units. Similar to 369 - 407.84. The intermediate unit makes up 80% of this section, the mafic unit makes up 20% of the section. The massive intermediate volcanic units have moderate - strong patchy carbonate, moderate pervasive chlorite and weak fracture-fill carbonate; the massive mafic units show moderate pervasive chlorite, subtle patchy carbonate. Both units have weak deformation, very fine grain size, and green-grey in colour. Overall the unit shows localized mineralization, qtz-carb veins show 0.5 - 1% fracture-fill pyrite and 0.5% - 1% disseminated pyrite, (430.85 - 430.77, 440.31 - 430.33, 459.43 - 459.47), Stringer qtz-carb veins are present within the unit, most show no mineralization, small amounts show 0.1% fracture-fill pyrite. The differentiating factor in the units is the alteration, the mafic unit has little to no patchy carbonate alteration while the intermediate unit has moderate - strong patchy carbonate alteration. Past 436.75 the units show speckled magnetite throughout the unit until the contact, the unit is weakly magnetic. Overall the unit has 0.1% fracture-fill pyrite and 0.1% disseminated pyrite.</p>														
455.97	483.56	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREEN-GREY	482.0	483.0	1	0.025	2.5	0.25	64	128	B0046951
<p>Massive mafic volcanic, with weak deformation, very fine grain size and green-grey in colour. Small beds of massive intermediate volcanics are present, 80% of the rock is massive mafic while 20% is small intermediate beds. Overall unit shows varying alteration from subtle - moderate patchy carbonate, subtle fracture-fill carbonate and moderate pervasive chlorite. Unit overall has 0.1% disseminated pyrite. Unit has many small stringer veins, qtz-carb with no sulphides. Larger veins in the unit show qtz-carb-chlor with some showing a halo of epidote (460.23 - 460.24, 470.94 - 470.97, 471.05 - 471.08). Overall the unit shows 0.1% disseminated pyrite and 0.1% fracture-fill pyrite. Similar to previous unit, speckled magnetite can be found throughout the unit.</p>														
483.56	489.32	QFP, Quartz-Feldspar Porphyry	PORPHYRITIC	MEDIUM	BROWN	483.56	484.12	0.56	0.0025	2.5	0.25	4	28	B0046953
<p>QFP unit, weak deformation, porphyritic feldspar and quartz grains, brown - cream in colour and medium grain size. Unit shows moderate patchy chlorite, weak fracture-fill chlorite and subtle pervasive potassic alteration. Unit has few small stringers qtz-chlor showing 1% disseminated pyrite; unit overall shows 1% disseminated pyrite and 0.1% fracture-fill pyrite. Lower and upper contacts are sharp. Local mineralization (1% blebby pyrite) near upper contact.</p>														
						484.12	485.0	0.88	0.009	2.5	0.25	6	35	B0046954
						485.0	486.0	1	0.061	2.5	0.25	5	26	B0046955
						486.0	487.0	1	0.037	2.5	0.25	5	27	B0046956
						487.0	488.0	1	0.06	2.5	0.25	5	38	B0046958
						488.0	488.54	0.54	0.02	2.5	0.25	4	33	B0046959
						488.54	489.32	0.78	0.078	2.5	0.25	4	29	B0046960
489.32	521	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREEN-GREY	489.32	490.27	0.95	0.54	2.5	0.7	54	113	B0046962
<p>Massive mafic volcanic unit showing weak deformation, very fine grain size, green-grey in colour. Unit shows weak patchy carbonate, weak pervasive chlorite and subtle fracture-fill carbonate (chlorite alteration is possibly epidote). Unit has qtz-carb stringer veins showing 0.1% disseminated pyrite. Unit has many large quartz veins, 489.65 - 490.20, 491 - 491.07, 491.54 - 491.57 m. 489.65 - 490.2 is a stockwork vein shows 3% blebby pyrite and qtz-carb-chlor. From 489.32 - 504.31 mineralization is localized around veins, overall the unit shows 0.5% blebby pyrite and 0.1% fracture-fill pyrite. Past 504.31 - 521 the unit shows 1% blebby pyrite, 1% disseminated pyrite and 0.5% fracture-fill pyrite. End of hole at 521 m.</p>														
						490.27	491.0	0.73	0.02	2.5	0.25	43	114	B0046963
						491.0	492.0	1	0.042	2.5	0.25	41	108	B0046964
						492.0	493.0	1	0.023	2.5	0.25	39	104	B0046965

Project: Van Horne **Hole Number:** VH20-005

Drill Hole				Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Aug-06-2020	Survey Method:	HANDHELD GPS		
Year:	2020	Geologist:	PERCY CLARK	End Date:	Aug-08-2020	Grid:	NAD83 / UTM zone 15N		
Hole Size:	NQ	Casing Depth:	9	Drill Company:	Major Drilling	Easting:	509,801		
Orient:	ACT III	EOH:	225			Northing:	5,507,532		
Hole Status:	COMPLETE	Logged Depth:	225			Elevation:	388		

Comments: Hole was incorrectly capped as VH20-001. Hole not cemented, plug placed at 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	3.28	OB, OVERBURDEN												

3.28	30.11	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY									
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Intermediate volcanics, grey to light grey, fine grained, clast shape and abundance varies, size of clasts increases with depth, strong foliation defined by clasts, rare 1cm qtz-carb veins, short intervals appearing volcanic displaying plag phenos 0.5cm, deformation increases with depth, sharp upper and lower contacts, lower contact occurs along 2cm qtz-carb vein. 0.1% Py occurring along chl seams in upper portion of unit and 0.5% py occurring along foliation in later part of unit.

10.72-11.95m Intermediate volcanic, grey, fine grained, abundant 1mm plag phenos. Sharp upper contact and gradational lower contact with fracture-fill ank.

11.95-22.79 Intermediate volcanics, grey to dark grey, very fine grained, high abundance of ~1cm thick elongated clasts, interval shows moderate deformation and semi-pervasive moderate silica bleaching focused within clasts, intervals displaying weak ser and epi alteration along foliation with weak patchy pot. alteration occurring within sil altered areas. occasional 1cm qtz-carb veins. Trace py along foliation.

26.90-27.90m mafic intrusive, dark grey, fine grained, irregular qtz-carb veinlets

30.11	33.01	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY									
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intermediate volcanic, grey, fine grained, massive-equigranular, sharp upper and lower contacts, rare irregular qtz-carb fracturefill veins. 1% dis py. sharp upper and lower contacts.

33.01	48.69	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	DARK GREY									
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Intermediate volcanics, dark grey, fine grained, clast shape and abundance consistent (<1cm width), clasts become more pronounced with depth, strong foliation defined by clasts, sharp upper and lower contacts, alteration is standard chl with intervals displaying strong sil alteration and localized areas displaying weak ser alteration. 0.2% dis py occurring in upper portion of unit, 1% py occurring as blebs along foliation in lower portion of unit, 0.1% py occurring in chl seams.

39.05-40.01 mafic intrusive, dark grey, fine grained, massive, displaying irregular-crosscutting qtz-carb fractures, sharp upper contact, gradational lower contact

Project: Van Horne	Hole Number: VH20-005
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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
48.69	74.62	IV, INTERMEDIATE VOLCANIC	FOLIATED	VERY FINE	GREY	48.69	49.5	0.81	0.009	2.5	0.25	10	54	B0046966
<p>Intermediate volcanic, grey to light grey, fine to very fine grained, weak to moderately foliated, unit displays varying deformation - predominately moderate with one area displaying strong deformation (48.69-52.00m). Unit hosts IVCL interval (69.74-70.37), healed fractures are abundant in upper portion of unit and as they grade out a higher abundance of plag phenos appear. Unit displays moderate pervasive silca, weak fracture fill carb and weak selective ser alteration. Alteration increasing to intense within strong deformation zone,</p>														
<p>48.69-52.00 Bleached-strongly deformed intermediate volcanics, displaying strong silica and ser, weak spotty pot and fracture fill chl alteration. Alteration increases within veined zone (49.99-51.69m). This veined zone is characterised by 5 slightly irregular qtz-ser-carb-chl-tor-py-sph veins varying from 3 to 20cm in widths. Py and Sph mineralization occurs within veins (Bleb) and along vein margins (diss) and within strongly sericitized wallrock.</p>														
<p>61.60-68.74 Intermediate Volcanics displaying a moderate volume of irregular qtz-carb fractures, occasional 1cm qtz-carb-chl veins displaying 1% py course grained along margins.</p>														
<p>68.74-70.37 Intermediate volcanoclastic, grey-green, fine grained, strongly foliated, high abundance of strongly deformed clasts averaging 0.5cm width, gradational upper and lower contacts into intermediate volcanic</p>														
<p>70.37-73.74 Intermedaite volcanic, grey, fine grained, weakly foliated and displaying an increased abundance of plag phenos (amygdules?) as large as 3cms. unit displays potential altered clasts</p>														
<p>73.74-74.62 mafic intrusive?, grey, fine grained, high volume of irregular carb fractures/blowouts, undulous upper and lower contacts.</p>														
<p>49.99 - 51.69 : Quartz Vein, Irregular qtz-ser-carb-chl-tor-sph-py vein set, 1% py diss, 2% sph bleb, zone is 60% vein 40% strongly deformed and altered wallrock.</p>														
74.62	91.41	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY									
<p>Intermediate volcanoclastics, grey, fine grained, clast shape and abundance varies (0.5-5cm width), strong foliation defined by clasts, sharp upper contact - lower contact grades into intermediate volcanics, alteration is standard chl with low abundance of carb-qtz veins. 0.1% dis py occurring as blebs along foliation.</p>														
<p>Similar to unit seen from 33.01-48.69m.</p>														

Project: Van Horne						Hole Number: VH20-005								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
91.41	225	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	118.0	118.84	0.84	0.006	6	0.25	42	83	B0046973
intermediate to felsic volcanics, light grey, fine to medium grained, moderate abundance of healed fractures and carb fractures-blowouts throughout unit increasing in abundance from 102-105. Moderate pervasive silica alteration throughout increasing to strong from 124.61-135.38m. phenos-amygds appear throughout unit in varying abundance occasionally displaying epi-carb alteration. Mineralization in unit increases with depth, 114-121.8m 0.5% diss py and increasing to 3% py and 2% sph from 121.80-135.38m. Unit shows increase in phenos-amygds from 186.57 to 225m.						118.84	119.59	0.75	0.0025	2.5	0.25	22	42	B0046974
						119.59	120.5	0.91	0.0025	2.5	0.25	55	99	B0046975
						120.5	121.8	1.3	0.0025	2.5	0.25	59	109	B0046976
						121.8	122.96	1.16	0.0025	2.5	0.25	70	97	B0046977
102-105m increased density of 0.25-1cm slightly irregular qtz-carb fractures, 1% py blebs occurring within fractures.						122.96	123.5	0.54	0.0025	2.5	0.25	53	105	B0046978
118.84-119.59 intense pervasive silica and epidote bleaching with qtz-chl-carb fracture-fill veins producing a mild breccia texture. 1% bleb py						123.5	124.61	1.11	0.0025	2.5	0.25	61	105	B0046979
						124.61	125.5	0.89	0.0025	2.5	0.25	11	112	B0046980
121.80-135.38 intermediate volcanics, grey to light grey, fine grained to aphanitic, massive predominately strong sil altered, appearing massive in silica altered areas. 3% Py 2% sph unit occurring as elongated blebs along foliation. Mineralization increases in localized areas. Lower abundance of carb fractures and phenos.						125.5	126.5	1	0.0025	2.5	0.25	5	86	B0046981
						126.5	127.5	1	0.0025	2.5	0.25	3	120	B0046982
131.20-131.25 5cm qtz-sph-Chl-Py-tor, 10% bleb sph, 2% bleb Py						127.5	128.5	1	0.0025	2.5	0.25	3	132	B0046983
133.40-134.34 qtz-tor-carb-chl-Py-sph zone made up of two 10cm thick veins occurring in strongly sil altered wallrock, 30% vein 70% wallrock. sulphides in interval totalling 5% (3% sph, 2% py)						128.5	129.5	1	0.0025	2.5	0.25	4	64	B0046984
135.38- 138.02 intermediate volcanic, dark grey, medium grained, unit displays IVCL intervals, lower contact is gradational as clasts slowly appear along with 1mm phenos.						129.5	130.5	1	0.0025	2.5	0.25	7	39	B0046986
						130.5	131.0	0.5	0.0025	2.5	0.25	4	50	B0046987
139.07-143 intermediate to mafic volcanoclastic, dark grey. medium grained, moderate abundance of variably sized clasts (0.2-3cm) and plag phenos (1cm), unit displays moderate chl alteration predominantly within clasts. upper contact is gradational with IV and lower contact is gradational as clasts become less abundant into IV below. rare py blebs stretched out along foliation						131.0	131.5	0.5	0.0025	2.5	0.25	10	53	B0046988
						131.5	132.0	0.5	0.0025	2.5	0.25	9	29	B0046989
						132.0	132.5	0.5	0.0025	2.5	0.25	7	30	B0046990
143-163.3 intermediate volcanics, light grey, fine grained to aphanitic, moderate abundance of healed fractures, unit displays a weak foliation in areas with moderate silica alteration - areas with intense or strong alteration appear massive, unit displays moderate silica alteration throughout increasing to intense in localized areas (145.33-145.93, 162.34-163.30), 1% sph and 1% py along foliation and in blebs,						132.5	133.1	0.6	0.0025	2.5	0.25	5	30	B0046991
						133.1	133.6	0.5	0.0025	2.5	0.25	4	36	B0046992
144.02-144.45 altered-deformed qtz-chl-carb-ser-tor vein set made up of three slightly irregular veins displaying 1% diss py						133.6	134.1	0.5	0.0025	2.5	0.25	1	64	B0046993
						134.1	134.8	0.7	0.0025	2.5	0.25	4	39	B0046994
144.37-145.44 5cm qtz-carb-ser-chl vein occurring in some of strong sil alteration						134.8	135.4	0.6	0.0025	2.5	0.25	10	47	B0046995
162.35-163.33 strongly-intensely silica altered interval displaying 1% bleb Py and 3% bleb sph						135.4	136.0	0.6	0.0025	2.5	0.25	61	113	B0046996
165.88-165.99 10cm qtz-carb-ser vein set with gouge material'						143.0	144.0	1	0.0025	2.5	0.25	63	95	B0046997
186.57-225 intermediate volcanics, light grey-green grey, high abundance of phenos-amygds 1mm to 1cm in width, increased carb fractures						144.0	144.5	0.5	0.0025	2.5	0.25	72	80	B0046999
215.73-219.91 moderate pervasive silica alteration, 1mm phenos-amygds throughout, 0.2% py along fractures near extents of altered interval.						144.5	145.0	0.5	0.0025	2.5	0.25	63	106	B0047000
						145.0	145.5	0.5	0.0025	2.5	0.5	49	85	B0047001
197.32-197.94 reliced qtz-carb-epi-ser vein set with 2% py occurring along foliation, veins display moderate deformation						145.5	146.0	0.5	0.0025	2.5	0.25	14	49	B0047002
						146.0	147.0	1	0.0025	2.5	0.25	69	152	B0047003
						147.0	148.0	1	0.0025	2.5	0.25	33	111	B0047004
						148.0	149.0	1	0.0025	2.5	0.25	41	125	B0047005

Project: Van Horne

Hole Number: VH20-005

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
133.4 - 134.34 : Quartz Vein, qtz-tor-carb-chl-Py-sph zone made up of two slightly irregular 10cm thick veins with smaller irregular qtz fracture fill veins proximal - occurring in strongly sil altered wallrock, 30% vein 70% wallrock. sulphides in interval totalling 5% (3% sph, 2% py)orientation taken of most pronounced vein (potentially not representative)						149.0	150.0	1	0.0025	2.5	0.25	19	91	B0047006
						150.0	151.0	1	0.0025	2.5	0.25	63	103	B0047007
						151.0	152.0	1	0.0025	2.5	0.25	70	119	B0047008
						152.0	153.0	1	0.0025	2.5	0.25	52	150	B0047010
						153.0	154.0	1	0.0025	2.5	0.25	39	148	B0047011
						154.0	155.0	1	0.0025	2.5	0.25	37	134	B0047012
						155.0	156.0	1	0.0025	2.5	0.25	54	116	B0047013
						156.0	157.0	1	0.0025	2.5	0.25	76	118	B0047014
						157.0	158.0	1	0.0025	2.5	0.6	33	118	B0047015
						158.0	159.0	1	0.0025	2.5	0.25	62	142	B0047016
						159.0	160.0	1	0.0025	2.5	0.25	19	83	B0047017
						160.0	161.0	1	0.005	2.5	0.25	30	78	B0047018
						161.0	162.35	1.35	0.013	2.5	0.25	34	84	B0047019
						162.35	163.32	0.97	0.701	9	0.25	16	53	B0047021
						163.32	164.0	0.68	0.017	2.5	0.25	56	91	B0047022
						164.0	165.0	1	0.013	2.5	0.25	54	87	B0047023
						165.0	165.5	0.5	0.014	2.5	0.25	50	76	B0047024
						165.5	166.0	0.5	0.027	2.5	0.25	57	83	B0047025
						166.0	167.0	1	0.0025	2.5	0.25	50	94	B0047026
						167.0	168.0	1	0.0025	2.5	0.25	45	89	B0047027
						195.0	196.0	1	0.0025	2.5	0.25	77	95	B0047028
196.0	197.0	1	0.0025	2.5	0.25	68	119	B0047029						
197.0	198.0	1	0.0025	2.5	0.25	31	80	B0047030						
198.0	199.0	1	0.0025	2.5	0.25	33	135	B0047032						
199.0	200.0	1	0.0025	2.5	0.25	92	113	B0047033						
215.0	215.73	0.73	0.0025	2.5	0.25	64	163	B0047034						
215.73	217.0	1.27	0.0025	2.5	0.25	45	94	B0047035						
217.0	218.0	1	0.0025	2.5	0.25	15	86	B0047036						
218.0	219.0	1	0.0025	2.5	0.25	19	91	B0047037						
219.0	219.91	0.91	0.0025	2.5	0.25	48	98	B0047038						
219.91	221.0	1.09	0.0025	2.5	0.25	74	101	B0047039						

Project: Van Horne **Hole Number:** VH20-006

Drill Hole		Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Aug-09-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	THOMAS CLARK	End Date:	Aug-16-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,845
Orient:	ACT III	EOH:	576			Northing:	5,507,826
Hole Status:	COMPLETE	Logged Depth:	576			Elevation:	380

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	5.48	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
5.48	80.62	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	6.0	7.0	1	0.077	2.5	0.5	7	64	B0047040
Intermediate volcanic unit. Weak Altered Volcanics. Unit is dark grey with a fine grain size and subtle - weak deformation. Overall the unit displays a massive texture, with weak amounts of foliation surrounding quartz veins. The unit shows trace disseminated pyrite throughout, with small pockets of 1-3 % blebby pyrite near the quartz veins. The unit has several quartz veins, ranging from 5 - 38 cm in width, 1-2 % blebby pyrite and varying amounts of patchy fracture-fill tourmaline.						7.0	8.0	1	0.0025	2.5	0.25	14	28	B0047041
						8.0	9.0	1	0.0025	2.5	0.25	7	27	B0047043
						9.0	10.0	1	0.0025	2.5	0.25	27	34	B0047044
From 6.12 - 6.53 m there is an increase in mineralization, from 0.5% disseminated pyrite to 2% blebby pyrite. There is also a weak amount of patchy tourmaline. Few 0.3 cm wide qtz-carb-tour veins appear within this unit.						10.0	11.0	1	0.0025	2.5	0.25	10	55	B0047045
						11.0	11.5	0.5	0.007	2.5	0.25	27	92	B0047046
From 16.59 to 18.66 m there is a quartz vein interval. This area has veins which range from 1 - 38 cm in width. Each vein shows weak - moderate patchy carbonate, weak fracture-fill tourmaline and subtle patchy chlorite. The larger veins show 1-3 % blebby pyrite and 0.1% pyrrhotite. All the veins follow a similar trend but some are irregular. Surrounding the veins is an increase from weak to moderate pervasive silica alteration, also causing slight foliation in some areas.						11.5	12.0	0.5	0.0025	2.5	0.25	19	98	B0047047
						12.0	13.0	1	0.0025	2.5	0.25	22	82	B0047048
						13.0	14.0	1	0.0025	2.5	0.25	16	109	B0047049
From 37.72 - 38.69 there is an increase in silica and sericite alteration. The zone shows a possible relic quartz vein, along with a new vein which follows the trend of previous veins. The area also shows a slight increase in mineralization from 0.5 to 1% disseminated pyrite. Between 65 - 68 magnetite blebs appear frequently.						14.0	15.0	1	0.0025	2.5	0.25	11	100	B0047050
						15.0	15.8	0.8	0.0025	2.5	0.25	11	93	B0047052
From 72 - 77 m there is rubble from both mechanical causes and shear material. The shear zone runs from 73.4 - 73.7 m, there is an increase in deformation from weak to moderate with a slight increase in sericite alteration.						15.8	16.59	0.79	0.0025	2.5	0.25	6	76	B0047053
At 80.62 alteration and deformation begin to change.						16.59	17.68	1.09	0.0025	2.5	0.25	42	67	B0047054
						17.68	18.34	0.66	0.0025	2.5	0.25	9	54	B0047055
						18.34	19.0	0.66	0.0025	2.5	0.25	17	87	B0047056
						19.0	20.0	1	0.0025	2.5	0.25	6	85	B0047057
						20.0	21.0	1	0.0025	2.5	0.25	14	87	B0047058
						28.68	29.19	0.51	0.0025	2.5	0.25	22	93	B0047059
						29.19	29.69	0.5	0.0025	2.5	0.25	17	187	B0047060
						29.69	30.19	0.5	0.0025	2.5	0.5	14	126	B0047061
						36.72	37.72	1	0.0025	2.5	0.25	32	166	B0047062
						37.72	38.64	0.92	0.0025	2.5	0.25	72	102	B0047063
						38.64	39.64	1	0.0025	2.5	0.25	24	83	B0047064
						48.54	49.54	1	0.0025	8	0.25	9	123	B0047066
						49.54	50.06	0.52	0.0025	2.5	0.9	14	132	B0047067
						50.06	51.0	0.94	0.0025	2.5	0.25	9	117	B0047068
						78.0	79.0	1	0.052	2.5	0.25	18	64	B0047069
						79.0	80.0	1	0.0025	2.5	0.25	1	49	B0047070
						80.0	80.62	0.62	0.0025	2.5	0.25	3	37	B0047071

Project: Van Horne

Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
80.62	92.79	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	80.62	81.31	0.69	0.032	2.5	0.25	24	156	B0047072
Intermediate volcanic: Subtle Alteration Halo. Unit showing fine grain size, weak - moderate deformation, a massive texture with a slight foliation and a grey to light grey colour. The unit shows small (1/2 cm) qtz-carb stringer veins, most are discontinuous. The unit shows 0.5% disseminated pyrite throughout, along within the quartz stringer margins. Alteration picks up to moderate pervasive silica, weak fracture-fill chlorite and subtle pervasive sericite. Alteration, mineralization and deformation increase with proximity of the shear zone at 92.79.						81.31	82.0	0.69	0.0025	2.5	0.25	6	65	B0047073
						82.0	83.0	1	0.0025	2.5	0.25	12	66	B0047074
						83.0	84.0	1	0.0025	2.5	0.25	6	38	B0047075
						84.0	85.0	1	0.0025	2.5	0.25	10	83	B0047076
After 84.48, we see an increase in fracture-fill chlorite, from subtle to weak and an slight increase in sericite alteration, from null to subtle pervasive.						85.0	86.0	1	0.0025	2.5	0.25	11	72	B0047077
						86.0	87.0	1	0.0025	2.5	0.25	5	29	B0047079
						87.0	88.0	1	0.0025	2.5	0.25	9	40	B0047080
						88.0	89.0	1	0.0025	2.5	0.25	3	35	B0047081
						89.0	90.0	1	0.0025	2.5	0.25	5	34	B0047082
						90.0	91.0	1	0.0025	2.5	0.25	2	31	B0047083
						91.0	92.0	1	0.0025	2.5	0.25	2	30	B0047084
						92.0	92.79	0.79	0.006	2.5	0.25	7	32	B0047085
92.79	95.1	IV, INTERMEDIATE VOLCANIC	GLASSY	VERY FINE	LIGHT GREY	92.79	93.77	0.98	0.036	2.5	0.25	14	37	B0047086
Intermediate volcanic: Shear Zone Moderate to strong deformation, very fine grain size, glassy and foliated texture and light grey - buff colour. The unit is a shear zone surrounding the league vein set, showing veins and vein sets from 1 - 20 cm wide. The unit shows 0.5% blebby pyrite with 1% blebby pyrite appearing within the vein margins. Alteration within the unit consists of strong pervasive silica, weak pervasive sericite and weak fracture-fill chlorite. Most veins are qtz-carb-tour veins, with patchy tourmaline and patchy carbonate within the vein margins. Overall the unit has a foliated and glassy texture due to alteration.						93.77	94.62	0.85	0.0025	2.5	0.25	15	39	B0047087
						94.62	95.12	0.5	11.2	2.5	0.5	12	42	B0047088
Quartz veins appear at 92.89 - 92.91, 93.57 - 93.77, 94.53 - 94.54 and 94.96 - 95.10 m.														
93.57 - 93.77 m is a quartz vein set, consisting of similarly trending 2 cm thick veins, showing trace vein-fill pyrite along the vein margins, and weak fracture-fill sericite alteration.														
From 95.96 - 96.10 m this vein shows 1% blebby pyrite within the vein margins and the surrounding area, as well as moderate patchy tourmaline and moderate patchy carbonate alteration.														
At the end of the shear is a small amount of fault gouge and alteration / deformation changes.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
95.1	111.46	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY	94.62	95.12	0.5	11.2	2.5	0.5	12	42	B0047088
Intermediate volcanic: Chlorite Alteration Halo Unit shows moderate deformation, medium grain size, foliated texture and a green-grey colour due to alteration. The unit has moderate - strong patchy silica alteration, moderate patchy chlorite alteration and weak - moderate pervasive sericite alteration. Overall the unit shows 0.5% blebby pyrite, and trace disseminated pyrite, with increases to 1% blebby pyrite around small stringer veins within the unit. The alteration within the unit gives it a foliation. The unit has many small discontinuous stringer veins. This unit is the alteration halo from the previous shear zone. A gradational contact between the next two units appears from 111 - 111.46 with alteration, texture, mineralization and deformation dropping.						95.12	96.0	0.88	0.023	2.5	0.25	54	123	B0047089
						96.0	97.0	1	0.026	2.5	0.25	47	73	B0047090
						97.0	98.0	1	0.0025	2.5	0.25	73	64	B0047092
						98.0	99.0	1	0.006	2.5	0.6	34	66	B0047093
						99.0	100.0	1	0.0025	2.5	0.25	53	80	B0047094
						100.0	101.0	1	0.0025	2.5	0.5	61	87	B0047095
						101.0	102.0	1	0.0025	2.5	0.5	35	74	B0047096
						102.0	103.0	1	0.0025	2.5	0.25	67	81	B0047097
						103.0	104.0	1	0.0025	2.5	0.25	52	69	B0047098
						104.0	105.0	1	0.0025	2.5	0.5	58	67	B0047099
						105.0	106.0	1	0.0025	2.5	0.25	42	72	B0047100
						106.0	107.0	1	0.0025	2.5	0.5	84	99	B0047101
						107.0	108.0	1	0.02	2.5	0.25	38	93	B0047102
						108.0	109.0	1	0.0025	2.5	0.5	13	58	B0047103
						109.0	110.0	1	0.0025	2.5	0.25	31	70	B0047105
						110.0	110.73	0.73	0.0025	2.5	0.25	33	89	B0047106
						110.73	111.46	0.73	0.0025	2.5	0.25	44	111	B0047107
111.46	131.3	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	111.46	112.46	1	0.0025	2.5	0.25	12	48	B0047108
Intermediate volcanic: Subtle Alteration Halo (Similar to 80.62-92.79m) Unit with weak deformation, massive texture with a slight foliation, fine grain size and dark grey colour very similar to the previous 5.48 - 80.62 m unit. Unit shows weak pervasive silica and subtle pervasive sericite alteration. Unit has few small stringer, mostly showing trace disseminated pyrite. Overall the unit shows 0.5% disseminated pyrite and trace blebby pyrite.						125.0	126.0	1	0.0025	2.5	0.25	8	109	B0047109
						126.0	127.0	1	0.0025	2.5	0.25	6	84	B0047110
						127.0	128.0	1	0.0025	2.5	0.25	8	117	B0047111
						128.0	129.0	1	0.0025	2.5	0.25	5	111	B0047112
						129.0	130.0	1	0.0025	2.5	0.25	11	92	B0047113
						130.0	131.3	1.3	0.0025	2.5	0.25	11	93	B0047114

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
131.3	153.05	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY	131.3	132.0	0.7	0.0025	2.5	0.25	8	84	B0047115
Intermediate volcanic unit, possible alteration halo. Unit very similar to unit from 95.1 - 111.46, medium grain green-grey unit with moderate patchy chlorite, moderate patchy silica and weak patchy carbonate. A slight to moderate foliation formed along the alteration. Overall the unit shows trace disseminated pyrite, within quartz veins margins mineralization increases to 0.5% blebby pyrite and trace disseminated chalcopyrite. Alteration from 131.3 to 134.92 is gradually changing into the overall unit's alteration, starting from weak and progressing into moderate. Alteration at the end of the unit is similar to the start with a gradational change back to massive intermediate volcanic.														
The unit has many small stringer veins, most are discontinuous and show null to trace blebby pyrite. The larger veins at 138.3 - 138.33, 140.91 - 141, 142.16 - 142.22, 143.71 - 143.73 and the stockwork vein set from 151.21 - 152.52 m show 0.5% blebby pyrite and trace disseminated pyrite. Orientation of vein set from 151.21 - 152.55 is irregular and cross cutting, but the general trend is different from surrounding veins.														
From 135 - 136.17, this area shows a heavy increase in alteration and mineralization. The area shows strong pervasive chlorite, and moderate pervasive silica alteration along with 6-7 % Semi massive fracture-fill pyrite.														
						132.0	133.0	1	0.0025	2.5	0.25	2	98	B0047116
						133.0	134.0	1	0.0025	2.5	0.25	4	119	B0047117
						134.0	134.92	0.92	0.0025	2.5	0.25	4	98	B0047118
						134.92	136.17	1.25	0.013	8	0.6	19	117	B0047119
						136.17	137.0	0.83	0.0025	7	0.25	15	74	B0047120
						137.0	138.0	1	0.0025	9	0.25	25	91	B0047121
						138.0	139.0	1	0.0025	13	0.25	52	142	B0047123
						139.0	140.0	1	0.0025	8	0.25	70	97	B0047124
						140.0	141.0	1	0.0025	2.5	0.25	39	99	B0047125
						141.0	142.0	1	0.0025	2.5	0.25	45	76	B0047126
						142.0	143.0	1	0.0025	5	0.25	57	68	B0047127
						143.0	144.0	1	0.018	2.5	0.25	57	70	B0047128
						144.0	145.0	1	0.0025	2.5	0.25	55	79	B0047130
						145.0	146.0	1	0.0025	2.5	0.25	40	69	B0047131
						146.0	147.0	1	0.0025	2.5	0.25	42	74	B0047132
						147.0	148.0	1	0.0025	2.5	0.25	60	72	B0047133
						148.0	149.0	1	0.0025	2.5	0.25	52	75	B0047134
						149.0	150.0	1	0.0025	5	0.25	54	77	B0047135
						150.0	150.6	0.6	0.0025	2.5	0.25	69	69	B0047136
						150.6	151.21	0.61	0.0025	2.5	0.25	77	80	B0047137
						151.21	151.89	0.68	0.0025	2.5	0.25	36	96	B0047138
						151.89	152.55	0.66	0.0025	2.5	0.25	37	166	B0047139
						152.55	153.05	0.5	0.0025	2.5	0.25	99	426	B0047140

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
153.05	220.54	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	153.05	154.0	0.95	0.0025	5	0.25	5	41	B0047141
Intermediate volcanic unit. Weak Altered Volcanics. Similar unit to 5.48 - 80.62 m, massive texture, weak deformation, fine grain size and dark grey in colour. Unit displays varying alteration, weak - subtle pervasive silica, subtle patchy carbonate and subtle fracture-fill chlorite are present. The unit shows few stringer veins overall, with null - trace disseminated pyrite within their margins. The unit also shows few larger veins with 1% blebby pyrite, moderate fracture-fill chlorite, weak patchy carbonate and weak fracture-fill tourmaline. The lower contact between the next IV unit shows a gradational change in alteration and deformation, turning into a green chlorite rich IV unit. Small qtz-carb blowouts are present within the unit sparsely spaced, showing 0.5% blebby pyrite. Overall the unit shows trace disseminated pyrite.														
From 161.17 to 161.46 m the unit shows small quartz veins, 1-2 cm wide with strong iron carbonate staining surrounding them, weak fracture-fill tourmaline, fine grained magnetite specks and 0.5% blebby pyrite within the margins of the unit.														
From 185.98 - 186.2 shows a large 20 cm vein which also starts a small area of an alteration halo, to small to break out into its own unit. The vein has weak fracture-fill chlorite, weak patchy carbonate and 1% fracture-fill pyrite. Past 186.2 to 190.98 the unit shows similar alteration to the medium grained green unit, with weak patchy chlorite, weak - moderate patchy silica and weak patchy carbonate, but maintains its massive texture and fine grained grain size. This area is also too small to warrant a new rock unit. Overall the unit shows 0.5% disseminated pyrite.														
From 190.98 - 220.54 the unit is very similar to the previous IV unit, but shows weak fracture-fill chlorite which shows 1-2% disseminated pyrite within each fracture. These fractures are common within the rock, giving the overall unit 1% disseminated pyrite and 0.5% blebby pyrite mineralization.														
						160.0	161.0	1	0.0025	2.5	0.25	15	62	B0047142
						161.0	162.0	1	0.0025	5	0.25	17	89	B0047144
						162.0	163.0	1	0.0025	2.5	0.25	18	83	B0047145
						170.0	170.94	0.94	0.0025	5	0.25	22	82	B0047146
						170.94	171.44	0.5	0.0025	2.5	0.25	18	159	B0047147
						171.44	172.0	0.56	0.0025	2.5	0.25	7	66	B0047148
						185.0	185.96	0.96	0.476	5	0.25	20	66	B0047149
						185.96	186.46	0.5	0.089	9	0.25	29	64	B0047150
						186.46	187.0	0.54	0.006	5	0.25	35	79	B0047151
						187.0	188.0	1	0.005	2.5	0.25	44	76	B0047152
						188.0	189.0	1	0.0025	2.5	0.25	29	74	B0047153
						189.0	190.0	1	0.0025	5	0.25	25	79	B0047154
						190.0	190.98	0.98	0.085	2.5	0.25	21	81	B0047155
						190.98	192.0	1.02	0.0025	2.5	0.25	16	63	B0047156
						192.0	193.0	1	0.0025	2.5	0.25	11	76	B0047158
						193.0	194.0	1	0.0025	2.5	0.25	43	92	B0047159
						194.0	195.0	1	0.0025	2.5	0.25	14	80	B0047160
						195.0	196.0	1	0.0025	2.5	0.25	10	84	B0047161
						196.0	197.0	1	0.0025	7	0.25	17	90	B0047162
						197.0	198.0	1	0.0025	2.5	0.25	16	91	B0047163
						198.0	199.0	1	0.0025	2.5	0.25	16	72	B0047164
						199.0	200.0	1	0.0025	5	0.25	48	120	B0047165
						200.0	201.0	1	0.0025	6	0.25	26	79	B0047166
						201.0	202.0	1	0.0025	2.5	0.25	14	64	B0047167
						202.0	203.0	1	0.0025	2.5	0.25	13	102	B0047168
						203.0	204.0	1	0.0025	2.5	0.25	16	134	B0047169
						204.0	205.0	1	0.0025	2.5	0.25	14	74	B0047170
						205.0	206.0	1	0.0025	11	0.25	16	103	B0047172
						206.0	207.0	1	0.0025	2.5	0.25	16	94	B0047173
						207.0	208.0	1	0.0025	2.5	0.25	21	75	B0047174

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						208.0	209.0	1	0.0025	2.5	0.25	20	87	B0047175
						209.0	210.0	1	0.0025	2.5	0.25	19	99	B0047176
						210.0	211.0	1	0.0025	2.5	0.25	24	83	B0047177
						211.0	212.0	1	0.0025	2.5	0.25	40	121	B0047178
						212.0	213.0	1	0.0025	2.5	0.25	22	75	B0047179
						213.0	214.0	1	0.0025	2.5	0.25	18	89	B0047180
						214.0	215.0	1	0.0025	2.5	0.25	29	82	B0047181
						215.0	216.0	1	0.0025	2.5	0.25	20	82	B0047182
						216.0	217.0	1	0.0025	6	0.25	39	370	B0047183
						217.0	218.0	1	0.0025	2.5	0.5	29	92	B0047184
						218.0	219.0	1	0.0025	5	0.5	38	99	B0047186
						219.0	219.75	0.75	0.0025	2.5	0.25	29	73	B0047187
						219.75	220.54	0.79	0.0025	2.5	0.25	9	61	B0047188
220.54	234.37	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	GREEN-GREY	220.54	221.54	1	0.0025	2.5	0.25	34	131	B0047189
Intermediate volcanic, Possible alteration halo. Very similar to unit from 95.1 - 111.46. Medium grained green-grey with moderate patchy chlorite, moderate patchy carbonate and moderate pervasive silica alteration. The unit is similar to the other alteration haloes, as they all follow a relatively large quartz vein. The unit has many small irregular stringer veins, most show trace - 0.5% blebby pyrite. Overall the unit shows 0.5% disseminated pyrite and very trace disseminated pyrrhotite. At both upper and lower contacts of this unit show a gradational change in both mineralization and alteration from weak - moderate.						223.0	224.0	1	0.0025	2.5	0.25	72	80	B0047190
						224.0	225.0	1	0.0025	2.5	0.25	66	77	B0047191
						225.0	226.0	1	0.0025	2.5	0.25	59	80	B0047192
						226.0	227.0	1	0.0025	2.5	0.25	63	88	B0047193
Large veins and vein sets at 228.9 - 229.07, 229.87 - 229.92, 232.05 - 232.11 show 1-2 % fracture-fill pyrite, trace disseminated pyrrhotite and 0.5% blebby pyrite. Most veins show moderate patchy carbonate and weak fracture-fill chlorite. Most vein sets within this unit have cross cutting veins and are irregular.						227.0	228.0	1	0.0025	2.5	0.25	47	79	B0047194
						228.0	228.8	0.8	0.0025	2.5	0.25	25	83	B0047195
						228.8	229.3	0.5	0.0025	5	0.25	47	23	B0047196
						229.3	230.0	0.7	0.0025	6	0.25	50	98	B0047197
						230.0	231.0	1	0.0025	6	0.25	57	82	B0047198
						231.0	232.0	1	0.0025	2.5	0.25	64	75	B0047200
						232.0	233.0	1	0.0025	8	0.25	64	85	B0047201
						233.0	233.63	0.63	0.0025	2.5	0.25	64	89	B0047202
						233.63	234.27	0.64	0.0025	2.5	0.25	58	111	B0047203
						234.27	235.0	0.73	0.0025	2.5	0.25	21	108	B0047204

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
234.37	314.03	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	234.27	235.0	0.73	0.0025	2.5	0.25	21	108	B0047204
Intermediate volcanic unit, Weak Altered Volcanics. This unit has a varying lithology type, between large massive, dark grey, fine grained intermediate volcanics and smaller foliated, light grey, fine grained intermediate volcanoclastics. The IVCL units are between 1 - 4 m in length and are of similar composition of the volcanics. The IVCL and IV also have similar mineralization, grain size and deformation, only slightly varying in alteration. Overall this unit has 0.5% disseminated pyrite between the IVCL and IV. The unit also shows weak patchy silica, weak patchy carbonate and weak pervasive silica but this varies in small pockets of the unit.														
						235.0	236.0	1	0.0025	2.5	0.25	19	86	B0047205
						247.11	248.11	1	0.0025	2.5	0.25	27	60	B0047206
From 234.37 - 248.11 the unit is similar to other massive IV units, dark grey, fine grained and massive. 0.5% disseminated pyrite, weak patchy carbonate and weak pervasive silica.														
						248.11	249.0	0.89	0.0025	9	0.25	24	107	B0047208
248.11 - 253.70 similar to 234.37 - 248.11 but has a weak foliation.														
						249.0	250.0	1	0.0025	2.5	0.25	17	126	B0047209
						250.0	251.0	1	0.0025	2.5	0.25	39	131	B0047210
						251.0	252.0	1	0.0025	2.5	0.25	19	118	B0047211
253.70 - 255.67 m IVCL unit, weak patchy carbonate, weak fracture-fill chlorite and weak pervasive silica, 0.5% disseminated pyrite, 0.5% blebby pyrite and elongated 1-2 cm clasts. Unit gradually turns back into the IV unit.														
						252.0	253.0	1	0.0025	2.5	0.25	18	112	B0047212
						253.0	253.7	0.7	0.0025	2.5	0.25	18	116	B0047213
255.67 - 258 massive dark grey IV unit, trace disseminated pyrite.														
						253.7	254.4	0.7	0.0025	2.5	0.25	19	108	B0047214
258 - 259.51 sparse clasts found within similar unit, dark grey, slightly foliated, weak patchy carbonate, weak foliated chlorite, weak pervasive silica														
						254.4	255.0	0.6	0.0025	2.5	0.25	24	110	B0047215
259.51 - 264.96 massive dark grey IV unit, slight foliation, trace disseminated pyrite. weak patchy carbonate and weak pervasive silica.														
						255.0	255.67	0.67	0.0025	2.5	0.25	21	102	B0047216
						255.67	256.67	1	0.0025	2.5	0.25	10	96	B0047217
264.96 - 265.93 IV unit with 29 cm quartz blowout, surrounding rock has same 1% fracture-fill pyrite and 0.5% disseminated pyrite, weak patchy carbonate, weak pervasive silica.														
						264.0	264.96	0.96	0.0025	2.5	0.25	18	114	B0047218
265.93 -284.22 IV massive dark grey unit with moderate patchy carbonate alt and weak pervasive silica. Trace disseminated pyrite.														
						264.96	266.0	1.04	0.0025	2.5	0.25	26	128	B0047219
						266.0	267.0	1	0.0025	2.5	0.25	24	128	B0047220
284.22 - 286.08 IV dark grey, massive with slight breccia texture, weak patchy carbonate, subtle pervasive silica and weak fracture-fill chlorite. Trace disseminated pyrite.														
						287.0	288.0	1	0.0025	8	0.25	13	67	B0047222
						288.0	288.5	0.5	0.0025	2.5	0.25	0.5	60	B0047223
286.08 - 314.03 m, dark grey massive fine grained IV unit. Weak patchy carbonate and weak pervasive silica alteration. From 288.79 - 288.84, qtz-carb-chlor vein, with 1% fracture-fill pyrite and 0.5% blebby pyrite within the vein margins. From 303 - 303.85 m, a small quartz vein set is present with a small alteration halo of moderate pervasive silica, weak pervasive sericite and weak fracture-fill chlorite present. Each vein is 1/2 cm wide, showing 0.5 % disseminated pyrite and 0.5% fracture-fill pyrite. Nearing the end of this unit, small patches of clasts are present, but not enough to break out.														
						288.5	289.0	0.5	0.005	5	0.25	12	75	B0047224
						289.0	290.0	1	0.0025	2.5	0.25	1	70	B0047225
						302.0	303.0	1	0.0025	2.5	0.25	13	61	B0047226
						303.0	304.0	1	0.0025	2.5	0.25	25	85	B0047227
						304.0	305.0	1	0.0025	2.5	0.25	42	116	B0047228

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
314.03	346.25	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	345.0	345.67	0.67	0.0025	6	0.25	54	115	B0047229
Intermediate volcaniclastic, Weak altered volcaniclastic unit. This unit is similar to the previous unit, but IVCL units are more prevalent and the IV units are smaller in width and frequency. From 314.03 - 345 m the unit is relatively the same, clasts are elongate and sub-rounded to rounded, being more common past 337-.25 m. The unit overall shows weak pervasive carbonate, weak pervasive silica and weak fracture-fill chlorite. The unit also shows 0.5% disseminated pyrite.						345.67	346.25	0.58	0.0025	2.5	0.25	69	87	B0047230
From 314.03 - 337.25 m the unit shows smaller elongate clasts and infrequent quartz veins / quartz blowouts. The unit has the same alteration as the overall unit, same mineralization. Veins at 314.10 - 314.17 and 324.18 - 324.20 m both show weak patchy carbonate and subtle patchy chlorite along with trace disseminated pyrite.														
337.25 - 346.25 IVCL unit, larger rounded clasts with moderate pervasive silica, weak fracture-fill chlorite and weak patchy carbonate alteration. Veins within the section are 1-3 cm wide, showing trace fracture-fill pyrite and weak patchy carbonate. Section also shows weak foliation and trace disseminated pyrite.														
346.25	361.18	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	346.25	347.0	0.75	0.0025	2.5	0.25	31	61	B0047231
Intermediate volcanic, weak altered unit. Unit displays fine grain size, dark grey colour, massive texture and moderate deformation. Overall the unit has moderate pervasive silica, weak patchy carbonate and subtle wispy chlorite. The unit displays 0.5 - 1% fracture-fill pyrite and 0.5% disseminated pyrite, along with trace disseminated chalcopyrite.						347.0	348.0	1	0.0025	2.5	0.25	21	52	B0047232
						348.0	349.0	1	0.0025	5	0.25	22	54	B0047233
						349.0	350.0	1	0.0025	2.5	0.25	25	47	B0047234
352.31 - 356.81 m the unit has many irregular qtz-carb stringer veins showing 0.5% fracture-fill pyrite, the veins overall show moderate vein-fill carbonate and weak vein-fill chlorite. This section shows moderate patchy carbonate weak pervasive silica and weak fracture-fill chlorite. One large stockwork vein at 354.50 - 354.59 shows 2% blebby pyrite and 1% fracture-fill pyrite. Most veins are cross cutting within this section.						350.0	351.0	1	0.138	2.5	0.25	59	95	B0047236
						351.0	352.0	1	0.0025	2.5	0.25	81	100	B0047237
This section gradually changes back into an IVCL unit past 361.18 m.						352.0	353.0	1	0.0025	2.5	0.25	38	105	B0047238
						353.0	354.0	1	0.0025	2.5	0.25	9	103	B0047239
						354.0	355.0	1	0.0025	2.5	0.25	12	89	B0047240
						355.0	356.0	1	0.0025	2.5	0.25	51	104	B0047241
						356.0	357.0	1	0.006	13	0.25	67	111	B0047242
						357.0	358.0	1	0.0025	2.5	0.25	28	102	B0047243
						358.0	359.0	1	0.006	2.5	0.25	53	98	B0047244
						359.0	360.0	1	0.026	2.5	0.25	38	91	B0047245

Project: Van Horne

Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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361.18	405.9	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY									
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Intermediate volcanoclastic unit, weak altered unit. Unit is very similar to unit from 312.03 - 346.25. Fine grain size, moderate deformation, weak - moderate foliated texture, grey in colour. This unit has small pockets of IV units intermixed with IVCL units, but are too small to break out. Overall the unit shows moderate pervasive silica, subtle pervasive carbonate and weak fracture-fill chlorite. Overall this unit has trace disseminated pyrite.

361.18 - 370.5 larger rounded clasts, slightly elongate along foliation, slight increase in alteration along clasts, moderate fracture-fill chlorite. Trace disseminated pyrite along clast margins.

370.5 - 393.31 slightly more massive section with sparser clasts. Foliation is still present, but weaker than previous unit. Alteration same as overall unit. Trace disseminated pyrite. From 375.87 - 376.33, is a 1 cm vein, qtz-carb-tour, 0.5% blebby pyrite and a small alteration halo within this section. Alteration increases to moderate pervasive silica, moderate pervasive carbonate and weak pervasive sericite.

393.31 - 405.9 smaller, elongated clasts, deformation and foliation is stronger within this section. Moderate fracture-fill chlorite, weak pervasive silica and subtle pervasive carbonate alteration is present, trace disseminated pyrite is also present. small quartz-carb-chlor veins are present, most showing null - trace pyrite.

The contact between IVCL and IV unit is sharp, between a quartz vein.

Project: Van Horne

Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
405.9	576	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	407.0	408.0	1	0.0025	5	0.25	28	113	B0047246
Intermediate volcanic, unaltered rocks + North Lost Vein Section + Lost Vein. Intermediate volcanic unit, massive texture, weak - moderate deformation, fine grain size and dark grey - grey colour. Unit shows varying alteration and mineralization.						408.0	409.0	1	0.045	2.5	0.25	16	86	B0047247
						409.0	410.0	1	0.049	2.5	0.25	15	82	B0047248
405.9 - 412.11. weak qtz-carb stringers, weak pervasive silica and subtle pervasive carbonate. 0.5% fracture-fill pyrite present. Massive IV unit.						410.0	411.0	1	0.064	2.5	0.25	27	102	B0047250
						411.0	411.55	0.55	0.055	2.5	0.25	34	354	B0047251
412.11 - 414.69 m, (possible surficial "QFP" unit). Highly altered intermediate volcanic unit, light grey / cream / buff colour. Strong pervasive silica, subtle pervasive carbonate and moderate pervasive sericite alteration are present. Overall this section shows 0.5% disseminated pyrite and trace fracture-fill pyrite.						411.55	412.11	0.56	0.012	2.5	0.25	61	286	B0047252
						412.11	413.0	0.89	0.0025	2.5	0.25	6	29	B0047253
414.69 - 444.84 m *Lost North Vein Section* Section is massive, weak pervasive silica, weak patchy carbonate alteration are present. This section shows 0.5 - 1% blebby pyrite and 0.5% fracture-fill pyrite.						413.0	414.0	1	0.0025	2.5	0.25	17	114	B0047254
The Lost North Vein runs from 424.44 - 425.76 m. This vein set is made of slightly irregular veins, most trend a similar 60 degrees and show a similar 318 - 330 beta angle. Each vein is between 2 - 6 cm wide and shows moderate patchy carbonate, weak patchy sericite and moderate fracture-fill chlorite. Within this vein set, 2% blebby pyrite, 2% fracture-fill, 0.5% disseminated pyrrhotite and 1% disseminated pyrite.						414.0	414.69	0.69	0.0025	2.5	0.25	5	48	B0047255
						414.69	415.19	0.5	0.008	5	0.25	63	410	B0047256
						415.19	416.0	0.81	0.01	2.5	0.25	34	317	B0047257
444.84 - 458.93 m IV unit, weak - moderate pervasive chlorite, moderate patchy carbonate and weak pervasive silica alteration, massive texture with slight foliation present. Unit shows many cross cutting, irregular and discontinuous stringer veins. Most stringers show null to 0.5% fracture-fill pyrite. Overall the units shows 0.5% blebby pyrite and 0.5% fracture-fill pyrite. Small pockets of epidote alteration from 457.38 - 458.93 m						416.0	417.0	1	0.0025	5	0.25	14	187	B0047258
						417.0	418.0	1	0.0025	2.5	0.25	21	93	B0047259
458.93 - 474.81 IV unit, massive texture with a weak foliation forming with stronger deformation, dark grey colour, fine grain size. Moderate patchy carbonate, moderate pervasive silica, weak pervasive chlorite alteration all present, from 464.37 - 464.61 and 468.67 - 469.11 patches of possible pervasive iron carbonate / kspat alteration present. Unit has few stringer veins with null sulphides and few large veins with 1% blebby pyrite and 0.5% fracture-fill pyrite. Overall the unit shows trace disseminated pyrite.						418.0	419.0	1	0.0025	2.5	0.25	43	132	B0047260
						419.0	420.0	1	0.0025	2.5	0.25	43	132	B0047261
						420.0	421.0	1	0.0025	2.5	0.25	23	111	B0047262
						421.0	422.0	1	0.0025	2.5	0.25	65	114	B0047264
474.81 - 489 IV massive unit, light grey - grey in colour, fine grained, moderate pervasive silica, and weak patchy carbonate alteration present. Unit shows few stringers with trace fracture-fill pyrite and few large qtz-carb-chlor-tour veins with 1% blebby pyrite and 0.5% fracture-fill pyrite. Few small patches of epidote alteration are present, overall the unit shows 0.5% blebby pyrite.						422.0	423.0	1	0.0025	2.5	0.25	26	110	B0047265
						423.0	423.7	0.7	0.024	2.5	0.25	38	109	B0047266
489 - 531.71 m massive IV unit, fine grained, dark grey, weak - moderate pervasive silica, weak patchy carbonate and weak fracture-fill chlorite present. Past 525, weak patchy biotite is present within all veins and mineralization. From 489 - 498, mineralization is trace disseminated pyrite but picks up to 1-2% blebby pyrite, 0.5% fracture-fill pyrite and 1% disseminated pyrite throughout the rest of the unit, increasing further around quartz veins to 2 % blebby pyrite, 1% fracture-fill pyrite and 2% disseminated pyrite. Large veins at 503.57 - 503.62, 506.76 - 506.78 m, 507.79 - 507.84, 507.95 - 507.96, and 524.47 - 524.52 m show similar mineralization, 2% blebby pyrite, 1% fracture-fill pyrite and 1-2% disseminated pyrite within vein margins and surrounding host rock. From 525 - 531.71 m small discontinuous stringer veins are present, most are irregular or cross cutting but are surrounded by mineralization same as the previous veins.						423.7	424.49	0.79	0.007	2.5	0.25	34	99	B0047267
						424.49	425.3	0.81	0.797	2.5	0.25	84	101	B0047268
						425.3	425.8	0.5	2.79	7	0.6	185	70	B0047269
						425.8	426.3	0.5	0.015	2.5	0.25	72	120	B0047270
						426.3	427.0	0.7	0.0025	2.5	0.25	66	116	B0047271
						427.0	428.0	1	0.01	2.5	0.25	78	98	B0047272
531.71 - 576 m, *probable Lost Vein at 534.82 - 534.95 m* IV massive texture, fine grained, dark grey in colour, slight variation in alteration and mineralization. Moderate pervasive silica, weak - moderate patchy carbonate, subtle - weak pervasive sericite and subtle fracture-fill chlorite present. Mineralization throughout the unit is 1-2 % blebby pyrite, with 2-3 % fracture-fill pyrite around quartz veins and 0.5% disseminated pyrite throughout the whole unit. The whole section shows small stringer veins with 0.1 - 0.5% fracture-fill pyrite. From 571 - 576, mineralization abruptly slows to trace disseminated pyrite.						428.0	429.0	1	0.007	2.5	0.25	76	133	B0047273
						443.0	444.0	1	0.0025	2.5	0.25	59	93	B0047274
						444.0	444.84	0.84	0.0025	2.5	0.25	62	92	B0047275
Larger veins throughout the section include 534.82 - 534.95, 537.12 - 537.16, 538.33 - 538.45, 539.86 - 539.92 and 542.44 - 542.48. These veins show mineralization from 1-3 % blebby pyrite, 2% fracture-fill pyrite and 2% disseminated pyrite within the surrounding host rock.						444.84	446.0	1.16	0.0025	7	0.25	56	97	B0047276
						446.0	447.0	1	0.0025	6	0.25	57	101	B0047278
The main lost vein was found at 534.82 - 534.95, shows moderate patchy carbonate, weak fracture-fill tourmaline						447.0	448.0	1	0.0025	5	0.25	58	97	B0047279

Project: Van Horne

Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
and moderate fracture-fill chlorite. Overall this vein shows 2% blebby pyrite, 1% fracture-fill pyrite and trace blebby pyrrhotite.						448.0	449.0	1	0.0025	5	0.25	52	94	B0047280
						449.0	450.0	1	0.0025	7	0.25	54	92	B0047281
424.44 - 425.76 : Quartz Vein, Qtz-carb-chlor-tour, average alpha angle is 60, average beta angle 320. 2% blebby pyrite, 2% fracture-fill pyrite, 0.5% pyrrhotite and 1% disseminated pyrite. Vein set, veins are 0.5 cm - 5 cm wide.						450.0	451.0	1	0.0025	2.5	0.25	64	105	B0047282
						451.0	452.0	1	0.0025	2.5	0.25	56	95	B0047283
565.2 - 565.76 : Quartz Vein, 3 cm wide, qtz-carb vein, nearly horizontal.						452.0	453.0	1	0.0025	2.5	0.25	57	91	B0047284
						453.0	454.0	1	0.0025	2.5	0.25	48	80	B0047286
						454.0	455.0	1	0.0025	2.5	0.25	78	88	B0047287
						455.0	456.0	1	0.0025	2.5	0.25	61	63	B0047288
						456.0	457.0	1	0.0025	2.5	0.25	48	71	B0047289
						457.0	458.0	1	0.0025	2.5	0.25	67	74	B0047290
						458.0	459.0	1	0.0025	2.5	0.25	25	64	B0047291
						459.0	460.0	1	0.0025	2.5	0.25	30	87	B0047292
						460.0	461.0	1	0.0025	2.5	0.25	131	89	B0047293
						461.0	462.0	1	0.0025	2.5	0.25	57	94	B0047294
						462.0	463.0	1	0.0025	2.5	0.25	37	90	B0047295
						463.0	464.0	1	0.0025	2.5	0.25	18	102	B0047296
						464.0	465.0	1	0.0025	2.5	0.25	33	83	B0047297
						467.0	468.0	1	0.0025	2.5	0.25	81	106	B0047298
						468.0	469.04	1.04	0.0025	14	0.25	24	90	B0047300
						469.04	470.0	0.96	0.0025	2.5	0.25	65	104	B0047301
						470.0	471.0	1	0.0025	5	0.25	55	96	B0047302
						497.0	498.0	1	0.0025	2.5	0.25	27	18	B0047303
						498.0	499.0	1	0.0025	2.5	0.25	104	16	B0047304
						499.0	500.0	1	0.0025	2.5	0.25	42	16	B0047305
						500.0	501.0	1	0.0025	2.5	0.25	34	15	B0047306
						501.0	502.0	1	0.0025	2.5	0.25	15	13	B0047307
						502.0	503.0	1	0.0025	2.5	0.25	24	15	B0047308
						503.0	504.0	1	0.0025	2.5	0.25	45	14	B0047309
						504.0	505.0	1	0.0025	2.5	0.25	20	15	B0047310
						505.0	506.0	1	0.0025	2.5	0.25	22	14	B0047311
						506.0	507.0	1	0.0025	2.5	0.25	29	48	B0047313

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	507.0	508.0	1	0.0025	2.5	0.25	23	9	B0047314					
	508.0	509.0	1	0.0025	2.5	0.25	11	9	B0047315					
	509.0	510.0	1	0.0025	2.5	0.25	37	58	B0047316					
	510.0	511.0	1	0.0025	2.5	0.25	50	174	B0047317					
	511.0	512.0	1	0.0025	5	0.25	52	180	B0047318					
	512.0	513.0	1	0.0025	2.5	0.25	45	135	B0047319					
	513.0	514.0	1	0.0025	2.5	0.25	42	121	B0047320					
	514.0	515.0	1	0.0025	2.5	0.25	51	142	B0047321					
	515.0	516.0	1	0.0025	2.5	0.25	46	130	B0047322					
	516.0	517.0	1	0.0025	2.5	0.25	36	155	B0047323					
	517.0	518.0	1	0.0025	5	0.25	38	139	B0047324					
	518.0	519.0	1	0.0025	2.5	0.25	36	167	B0047326					
	519.0	520.0	1	0.0025	2.5	0.25	36	151	B0047327					
	520.0	521.0	1	0.0025	2.5	0.25	37	93	B0047328					
	521.0	522.0	1	0.0025	2.5	0.25	37	71	B0047329					
	522.0	523.0	1	0.0025	2.5	0.25	48	39	B0047330					
	523.0	524.0	1	0.0025	2.5	0.25	60	30	B0047331					
	524.0	525.0	1	0.0025	5	0.25	44	47	B0047332					
	525.0	526.0	1	0.0025	2.5	0.25	49	88	B0047333					
	526.0	527.0	1	0.0025	5	0.25	36	94	B0047334					
	527.0	528.0	1	0.0025	5	0.25	35	120	B0047335					
	528.0	529.0	1	0.007	2.5	0.25	54	98	B0047336					
	529.0	530.0	1	0.0025	2.5	0.25	47	78	B0047337					
	530.0	531.0	1	0.006	2.5	0.25	33	84	B0047339					
	531.0	531.71	0.71	0.038	2.5	0.25	26	80	B0047340					
	531.71	532.21	0.5	0.089	2.5	0.5	53	112	B0047341					
	532.21	533.0	0.79	0.018	2.5	0.25	68	96	B0047342					
	533.0	534.0	1	0.016	2.5	0.25	60	98	B0047343					
	534.0	534.75	0.75	0.019	2.5	0.25	68	126	B0047344					
	534.75	535.25	0.5	0.041	2.5	0.25	48	68	B0047345					
	535.25	536.0	0.75	0.118	2.5	0.25	30	84	B0047346					

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Hole Number: VH20-006

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	536.0	537.0	1	0.016	2.5	0.25	29	95	B0047347					
	537.0	538.0	1	0.067	2.5	0.25	165	90	B0047348					
	538.0	539.0	1	0.161	2.5	0.25	48	116	B0047349					
	539.0	540.0	1	0.013	2.5	0.25	63	97	B0047350					
	540.0	541.0	1	0.014	2.5	0.25	60	98	B0047351					
	541.0	542.0	1	0.013	2.5	0.25	68	98	B0047352					
	542.0	543.0	1	0.006	2.5	0.25	55	103	B0047353					
	543.0	544.0	1	0.0025	2.5	0.25	57	99	B0047354					
	544.0	545.0	1	0.0025	5	0.25	67	98	B0047355					
	545.0	546.0	1	0.006	2.5	0.25	62	94	B0047357					
	546.0	547.0	1	0.0025	2.5	0.25	59	97	B0047358					
	547.0	548.0	1	0.0025	2.5	0.25	53	100	B0047359					
	548.0	549.0	1	0.0025	2.5	0.25	60	87	B0047360					
	549.0	550.0	1	0.0025	2.5	0.25	60	87	B0047361					
	550.0	551.0	1	0.0025	2.5	0.25	53	91	B0047362					
	551.0	552.0	1	0.0025	2.5	0.25	51	98	B0047364					
	552.0	553.0	1	0.0025	2.5	0.25	49	89	B0047365					
	553.0	554.0	1	0.0025	2.5	0.25	34	90	B0047366					
	554.0	555.0	1	0.0025	2.5	0.25	48	87	B0047367					
	555.0	556.0	1	0.0025	2.5	0.25	65	112	B0047368					
	556.0	557.0	1	0.0025	2.5	0.5	47	112	B0047369					
	557.0	558.0	1	0.0025	2.5	0.25	44	120	B0047370					
	558.0	559.0	1	0.0025	2.5	0.25	56	92	B0047371					
	559.0	560.0	1	0.0025	2.5	0.25	46	100	B0047372					
	560.0	561.0	1	0.0025	2.5	0.25	52	98	B0047373					
	561.0	562.0	1	0.0025	2.5	0.25	44	95	B0047374					
	562.0	563.0	1	0.005	2.5	0.25	112	110	B0047375					
	563.0	564.0	1	0.0025	2.5	0.25	14	104	B0047376					
	564.0	565.0	1	0.0025	2.5	0.25	30	89	B0047378					
	565.0	566.0	1	0.0025	5	0.25	9	107	B0047379					
	566.0	567.0	1	0.0025	2.5	0.25	63	114	B0047380					

DRILL LOG REPORT

Project: Van Horne							Hole Number: VH20-006							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						567.0	568.0	1	0.0025	2.5	0.25	78	122	B0047381
						568.0	569.0	1	0.0025	2.5	0.5	88	101	B0047382
						569.0	570.0	1	0.0025	2.5	0.25	111	117	B0047383
						570.0	571.0	1	0.0025	2.5	0.25	91	119	B0047384

Project: Van Horne **Hole Number:** VH20-007

Drill Hole		Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Aug-18-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Aug-21-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,526
Orient:	ACT III	EOH:	324			Northing:	5,507,658
Hole Status:	COMPLETE	Logged Depth:	324			Elevation:	407

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	6	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-007

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
6	60.79	IV, INTERMEDIATE VOLCANIC	MASSIVE	MEDIUM	DARK GREY	6.0	7.0	1	0.0025	2.5	0.25	7	96	B0047385
Intermediate volcanic unit. Strong silica alteration, with patches of weak-moderate ankerite/carbonate alteration. Unit is dark grey with a fine-medium grain size and has displays weak-moderate deformation. Overall, the unit displays a massive texture, with weak foliation and some 0.5-4 cm thick quartz stringer veins periodically occurring throughout unit. There are no visible sulfides observed in this unit.														
6-24.09 m: Moderate to strong pervasive silica alteration halo around 34 cm thick buff-coloured quartz-carbonate-ankerite vein (vein occurs at 6-6.34 m). Some patches of pervasive ankerite alteration are visibly oxidized throughout this section. Overall dark grey in colour, with some regions of silica bleaching.														
25.13-32.42 m: Weak to moderate ankerite (slight hematite) alteration, with oxidation causing it to be more obvious in heavily fractured regions. The alteration has caused this section to be dark brownish-grey. Deformation increases here, developing a stronger foliation and has resulted in heavily fractured core.														
35.55-37.77 m: Moderate carbonate alteration presenting a net/mesh texture around 3 1-4 cm thick quartz-carbonate veins. Appears that this section is carbonate and sericite infilling a network of fractures.														
38.32-51.28 m: Carbonate-filled amygdules present throughout this section, with strongest intensity around a 27 cm wide quartz-chlorite-carbonate-ankerite-sericite veins set of 3-4 cm thick veins.														
51.28-54 m: The moderate carbonate alteration with net/mesh texture returns, with carbonate-filled amygdules still present at a lower abundance throughout this section.														
54-60.79 m: Moderate pervasive silica and weak fracture-fill ankerite alteration appears in this section around a few minor 1-3 cm thick quartz-carbonate-chlorite veins. Some small patches of weak carbonate net/mesh textured alteration are along present in this section.														
						9.0	10.0	1	0.0025	2.5	0.25	6	103	B0047386
						10.0	11.0	1	0.0025	2.5	0.25	12	106	B0047387
						11.0	12.0	1	0.0025	2.5	0.25	11	153	B0047388
						12.0	13.0	1	0.006	2.5	0.25	34	81	B0047389
						17.0	18.0	1	0.0025	2.5	0.25	20	114	B0047390
						22.0	23.0	1	0.0025	2.5	0.25	9	195	B0047392
						32.0	33.0	1	0.0025	2.5	0.25	40	93	B0047393
						33.0	34.0	1	0.0025	2.5	0.25	39	96	B0047394
						34.0	35.0	1	0.0025	2.5	0.25	22	92	B0047395
						35.0	36.0	1	0.005	2.5	0.25	34	64	B0047396
						36.0	37.0	1	0.0025	2.5	0.25	16	55	B0047397
						37.0	38.0	1	0.0025	2.5	0.25	37	53	B0047398
						38.0	39.0	1	0.0025	2.5	0.25	39	124	B0047399
						39.0	39.83	0.83	0.0025	2.5	0.25	21	72	B0047400
						39.83	40.13	0.3	0.0025	2.5	0.25	28	90	B0047401
						40.13	41.0	0.87	0.009	2.5	0.25	45	123	B0047402
						41.0	42.0	1	0.0025	2.5	0.25	13	80	B0047403
						48.0	49.0	1	0.0025	2.5	0.25	14	77	B0047404
						49.0	50.0	1	0.006	9	0.25	18	75	B0047406
						50.0	51.0	1	0.0025	2.5	0.25	17	90	B0047407
						51.0	52.0	1	0.0025	2.5	0.25	13	83	B0047408
						52.0	53.0	1	0.0025	2.5	0.25	19	74	B0047409
						53.0	54.0	1	0.0025	2.5	0.25	14	84	B0047410
						54.0	55.0	1	0.0025	2.5	0.25	22	77	B0047411
						55.0	55.6	0.6	0.0025	2.5	0.25	50	102	B0047412
						60.37	61.0	0.63	0.0025	2.5	0.25	28	87	B0047413

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Hole Number: VH20-007

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
60.79	63.94	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	DARK GREY	60.37	61.0	0.63	0.0025	2.5	0.25	28	87	B0047413

Intermediate volcanic unit. Moderate carbonate and silica alteration, with some patches of moderate ankerite alteration. Unit is dark grey with a fine grain size and has displays moderate-strong deformation. Overall, the unit displays a foliated and amygdaloidal texture, with moderate foliation and some >1 cm thick quartz stringer veins periodically occurring throughout unit. There are no visible sulfides observed in this unit.

60.79- 61.79 m: This section begins with a 3 cm thick quartz-carbonate-chlorite vein. The vein is surrounded by pervasive carbonate and ankerite alteration.

61.22-61.79 m: This section of the rock is so weak that it is the equivalent to rubble.

61.79-63.44 m: This section has a high abundance of carbonate-filled amygdules.

62.57-62.94 m: This section of the rock is so weak that it is the equivalent to rubble.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
63.94	187.94	IVCL, INTERMEDIATE VOLCANICLASTIC	POLYMICITIC	FINE	GREY	72.0	73.0	1	0.0025	2.5	0.25	22	110	B0047414
Intermediate volcanoclastic unit. Moderate carbonate alteration throughout, with some patches of moderate-strong silica and chlorite alteration. Unit has a dark grey matrix and light grey clasts, with a fine grain size and has displays moderate-strong deformation, primarily in the form of elongated clasts. Overall, the unit is clast-supported and displays a polymictic and foliated texture, with some >1 cm thick quartz stringer veins periodically occurring throughout unit and and 2 >15 cm thick quartz-carbonate veins. There are minor occurrences of vein-fill pyrite in this unit.						73.0	74.0	1	0.0025	2.5	0.25	20	113	B0047415
63.79-63.97 m: This section of the rock is so weak that it is the equivalent to rubble.						80.0	80.67	0.67	0.0025	2.5	0.25	14	97	B0047416
63.79-68.30 m: This section is composed of strongly deformed clasts that are rounded and elongated to be approx. 0.5 cm in width and 3 cm in length. Weak carbonate alteration affecting clasts.						85.0	86.0	1	0.0025	2.5	0.25	26	101	B0047417
68.30-70.26 m: Deformation decreases in this section and clasts become more irregular in size and shape, and more angular. Clasts vary from 0.2-2.5 cm in width and 0.5-5 cm in length. Weak carbonate alteration affecting clasts.						87.0	88.0	1	0.0025	2.5	0.25	32	147	B0047418
70.26-78.26 m: Moderate deformation in this section has caused the clasts to returned to a rounded and elongated shape and sized approx. 0.5 cm in width and 3 cm in length. Weak carbonate alteration affecting clasts.						88.0	89.0	1	0.0025	2.5	0.25	18	95	B0047420
78.26-88 m: Deformation decreases in this section and clasts become more variable in size, and less elongated. This section contains a lower abundance of clasts, but is still clast-supported. Clasts size ranges from 1-8 cm in width and 2-15 cm in length. Moderate carbonate alteration affecting clasts and moderate pervasive silica alteration affecting matrix.						89.0	90.0	1	0.0025	2.5	0.25	11	90	B0047421
80.19-80.33 m: A 14 cm thick white quartz-carbonate vein. Silica and carbonate alteration halo surrounds this vein (indicated in previous section). Vein is dipping 90 degrees (no beta angle available).						92.45	93.0	0.55	0.006	2.5	0.25	37	118	B0047422
88-92.28 m: Matrix-supported. Deformation is very weak in this section, with very few clasts present. Silica alteration begins to increase to strong pervasive silica alteration in this section.						93.0	94.0	1	0.0025	2.5	0.25	27	68	B0047423
92.28-96.33 m: This section is composed of a strong pervasive silica alteration halo surrounding a 26 cm thick quartz vein. Deformation is strong in this region making visible clasts highly elongated. Clasts are approx. 0.5 cm in width and 3 cm in length. Approx. 100 cm on either side of this vein the silica alteration becomes so intense that it is hard to distinguish the clast boundaries.						94.0	95.0	1	0.026	2.5	0.25	15	36	B0047424
94.47-94.73 m: A 26 cm thick light grey quartz-carbonate-chlorite-pyrite vein. Strong silica alteration halo surrounds this vein (indicated in previous section). Vein is dipping ~42 degrees (no beta angle available).						96.0	97.0	1	0.005	2.5	0.25	44	129	B0047425
96.33-103.55: This section is composed of strongly deformed clasts that are rounded and elongated to be approx. 0.5 cm in width and 3 cm in length. Weak carbonate alteration affecting clasts.						97.0	98.0	1	0.0025	2.5	0.25	49	157	B0047426
103.55-118 m: Deformation is moderate in this section with slightly elongated clasts. Clasts are approx. 1 cm in width and 4 cm in length. To note in this section, there are approx. 1 cm by 1 cm vesicles that have be infilled by carbonate and silica. The appear to pre-date the deformation, as they are slightly elongated or have "tails" going into the matrix.						98.0	99.0	1	0.0025	2.5	0.25	37	120	B0047427
118-135.95 m: This section contains moderate pervasive silica alteration causing silica bleaching to make the rock lighter grey in colour and clast outlines less obvious. Clasts size and deformation still same as previous section.						104.0	105.0	1	0.0025	2.5	0.25	24	107	B0047428
135.95-139.57 m: Moderate pervasive chlorite alteration present in this section with minor occurrences of <1 cm thick quartz-carb stringer vein set.						105.0	106.0	1	0.0025	2.5	0.25	6	110	B0047429
139.57-142.7 m: A consistent set of <1 cm thick quartz-carb stringer veins spaced 4-8 cm apart. Strong deformation present as a parallel foliation to stringer veins. Strong pervasive silica alteration and bleaching in located in this section as a halo around the stringer veins.						106.0	107.0	1	0.0025	2.5	0.25	14	104	B0047430
142.7-150.63 m: Moderate pervasive chlorite alteration affects this section. Approx. 0.5% blebby pyrite visible						107.0	108.0	1	0.0025	2.5	0.25	5	110	B0047431
						108.0	109.0	1	0.0025	2.5	0.25	12	109	B0047432
						109.0	110.0	1	0.0025	2.5	0.25	31	96	B0047434
						123.8	124.8	1	0.0025	2.5	0.25	105	96	B0047435
						124.8	125.8	1	0.0025	2.5	0.25	119	97	B0047436
						134.0	134.68	0.68	0.0025	2.5	0.25	21	111	B0047437
						139.43	140.0	0.57	0.0025	2.5	0.25	17	144	B0047438
						140.0	141.0	1	0.0025	2.5	0.25	22	90	B0047439
						141.0	142.0	1	0.0025	2.5	0.25	47	95	B0047440
						142.0	142.8	0.8	0.0025	2.5	0.25	64	91	B0047441
						150.0	151.0	1	0.0025	2.5	0.25	82	126	B0047442
						151.0	152.0	1	0.0025	2.5	0.25	45	117	B0047443
						152.0	153.0	1	0.0025	2.5	0.25	51	117	B0047444
						153.0	154.0	1	0.0025	2.5	0.25	56	115	B0047445
						154.0	155.0	1	0.0025	2.5	0.25	60	120	B0047446

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
		here.				155.0	156.0	1	0.0025	2.5	0.25	46	115	B0047447
		150.63-156.76 m: 0.7-4 cm stringer quartz-carb vein set present in this section, containing 0.5% disseminated pyrite and 1% vein-fill pyrite. Strong deformation present as a parallel foliation to stringer veins. Strong pervasive chlorite alteration affects this section producing a greenish-grey colour in wall rock.				156.0	157.0	1	0.008	2.5	0.25	50	116	B0047448
						157.0	158.0	1	0.0025	2.5	0.25	83	102	B0047449
		156.76-162.19 m: Clast size decreases to 0.5-2 cm width and 1-2 cm length. Moderate deformation present here as clasts are only slightly elongated and a weak foliation is observed. Chlorite alteration decreases to weak and moderate carbonate alteration is present.				158.0	159.0	1	0.0025	2.5	0.25	51	110	B0047450
						159.0	160.0	1	0.0025	2.5	0.25	49	108	B0047451
		162.19-170.24 m: Strong pervasive chlorite alteration present in this section causing the wall rock to be a green-ish grey colour. Clast size shape becomes quite irregular here. Clasts range from 1-6 cm in width and 3-10 cm in length. Clasts are less rounded and more angular, with minimal elongation. Deformation in this zone is weak. Approx. 0.5% blebby pyrite in this section. Some minor mesh-style stringer veins present in the last 2 m (168.24-170.24 m).				160.0	161.0	1	0.0025	2.5	0.25	66	102	B0047452
						161.0	162.0	1	0.0025	2.5	0.25	59	98	B0047453
						162.0	163.0	1	0.0025	2.5	0.25	60	99	B0047454
		170.24-181.03 m: Moderate deformation present in this section with elongated clasts returning, sized approx. 1 cm in width and 4 cm in length. Moderate carbonate alteration affecting clasts.				163.0	164.0	1	0.0025	8	0.25	98	93	B0047456
						164.0	165.0	1	0.0025	2.5	0.25	57	90	B0047457
		181.03-187.94 m: This section contains a strong pervasive silica and chlorite alteration halo. This halo surrounds a 35 cm thick quartz vein. Deformation is strong in this zone and presents a strong foliation with minor stringer veins running parallel to foliation.				165.0	166.0	1	0.0025	2.5	0.25	26	98	B0047458
						166.0	167.0	1	0.0025	2.5	0.25	38	99	B0047459
		94.47 - 97.73 : Quartz Vein, 26 cm thick quartz vein				167.0	168.0	1	0.0025	2.5	0.25	57	94	B0047460
						168.0	169.0	1	0.0025	2.5	0.25	74	96	B0047461
						169.0	170.0	1	0.0025	2.5	0.25	27	119	B0047462
						170.0	171.0	1	0.0025	2.5	0.25	92	109	B0047463
						175.0	176.0	1	0.0025	2.5	0.25	54	92	B0047464
						176.0	177.0	1	0.0025	2.5	0.25	37	96	B0047465
						180.25	181.0	0.75	0.015	2.5	0.7	597	134	B0047466
						181.0	182.0	1	0.0025	2.5	0.25	52	86	B0047467
						182.0	183.0	1	0.0025	2.5	0.25	47	107	B0047468
						185.0	186.0	1	0.006	2.5	0.25	43	112	B0047470
						186.0	187.0	1	0.0025	2.5	0.25	48	100	B0047471
						187.0	187.75	0.75	0.0025	2.5	0.25	46	98	B0047472
						187.75	188.35	0.6	0.0025	2.5	0.25	49	56	B0047473
187.94	188.29	QV, QUARTZ VEIN	VARITEXTURE D	APHANITIC	WHITE	187.75	188.35	0.6	0.0025	2.5	0.25	49	56	B0047473

A 35 cm thick quartz-carbonate-tourmaline-chlorite-pyrite mentioned in previous section. This vein contains approx. 2% blebby vein-fill pyrite. Vein is surrounded by a halo of strong pervasive chlorite alteration.

187.94 - 188.29 : Quartz Vein, A 35 cm thick quartz-carbonate-tourmaline-chlorite-pyrite mentioned in previous section. This vein contains approx. 2% blebby vein-fill pyrite.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
188.29	263.75	IVCL, INTERMEDIATE VOLCANICLASTIC	POLYMICCTIC	FINE	GREY	187.75	188.35	0.6	0.0025	2.5	0.25	49	56	B0047473
Intermediate volcaniclastic unit. Moderate carbonate alteration, with some patches of moderate-strong silica and chlorite alteration. Unit has a dark grey matrix and light grey clasts, with a fine grain size. Displays moderate-strong deformation, primarily in the form of elongated clasts. Overall, the unit is clast-supported and displays a polyimictic and foliated texture, with some >1 cm thick quartz stringer veins periodically occurring throughout unit and and 2 >15 cm thick quartz-carbonate veins. There are minor occurrences of vein-fill and blebby pyrite in this unit.						188.35	189.0	0.65	0.0025	2.5	0.25	48	98	B0047474
						189.0	190.0	1	0.0025	2.5	0.25	44	100	B0047475
						190.0	191.0	1	0.0025	2.5	0.25	39	101	B0047476
						191.0	192.0	1	0.0025	2.5	0.25	45	104	B0047477
188.29-191 m: This section contains a strong pervasive silica and chlorite alteration halo. This halo surrounds a 35 cm thick quartz vein. Deformation is strong in this zone and presents a strong foliation with minor stringer veins running parallel to foliation.						196.45	196.92	0.47	0.005	2.5	0.25	64	102	B0047478
						203.0	204.0	1	0.007	2.5	0.25	49	92	B0047479
191-200.87 m: Moderate carbonate alteration affects clasts sized approx. 1 cm in width and 2-6 cm in length. Patches of strong silica bleaching are present in this section. Approx. 0.5% blebby pyrite present. Moderate deformation causing clasts to be elongated.						204.0	205.0	1	0.008	2.5	0.25	46	110	B0047480
						205.0	206.0	1	1.795	2.5	0.25	51	84	B0047481
200.87-213 m: A zone of moderate pervasive chlorite alteration causing the rock to become a greenish-grey colour. This section contains some minor 1 cm thick quartz-carbonate stringer veins. Approx. 0.5% blebby pyrite present. Clast size and deformation same as previous section.						206.0	207.0	1	0.355	2.5	0.25	69	113	B0047482
						207.0	208.0	1	0.008	2.5	0.25	66	148	B0047484
213-246.12 m: Deformation decreases greatly here, as clasts appear highly irregular and angular. This section is matrix-supported and clast sizes vary from 2-8 cm in width and 6-12 cm in length. Small grains of epidote and sericite present in clasts. Approx. 0.5% blebby pyrite present.						245.68	246.68	1	0.0025	2.5	0.25	44	143	B0047485
						246.68	247.6	0.92	0.029	2.5	0.25	88	142	B0047486
246.12-263.75 m: Moderate pervasive silica and chlorite alteration affect this region to blur clast and matrix boundaries. Weak carbonate alteration infills clasts. Clast size decreases to 0.5-1 cm in width and 1-2 cm in length. Deformation is moderate in the form of elongated clasts. 1% disseminated pyrite is visible in the matrix and clasts. Occasional 0.5 cm thick quartz-carbonate stringer veins present in this section. Some carbonate-filled amygdules in the last 2 m of this section.						250.3	251.0	0.7	0.0025	2.5	0.25	74	89	B0047487
						251.0	252.0	1	0.0025	2.5	0.25	76	90	B0047488
						252.0	253.0	1	0.0025	2.5	0.25	69	89	B0047489
						253.0	254.0	1	0.0025	2.5	0.25	64	97	B0047490
						254.0	255.0	1	0.0025	2.5	0.25	60	108	B0047491
						255.0	256.0	1	0.0025	2.5	0.25	58	105	B0047492
						256.0	257.0	1	0.0025	2.5	0.25	50	111	B0047493
						257.0	258.0	1	0.0025	2.5	0.25	47	108	B0047494
						258.0	259.0	1	0.0025	2.5	0.25	50	95	B0047495
						259.0	260.0	1	0.0025	2.5	0.25	61	93	B0047496
						260.0	261.0	1	0.0025	2.5	0.25	47	115	B0047498
						261.0	262.0	1	0.0025	2.5	0.25	46	147	B0047499
						262.0	263.0	1	0.0025	2.5	0.25	38	193	B0047500
						263.0	264.0	1	0.0025	2.5	0.25	149	158	B0047501

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Hole Number: VH20-007

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
263.75	314	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	263.0	264.0	1	0.0025	2.5	0.25	149	158	B0047501
Intermediate volcanic unit. Strong silica alteration, patches of strong pervasive chlorite, and patchy carbonate alteration. Unit is green-grey with a fine-medium grain size and displays weak-moderate deformation. Overall, the unit displays a massive texture, with weak foliation and some 0.5-4 cm thick quartz stringer/stockwork veins periodically occurring throughout unit. Rare >10 cm quartz-carbonate-chlorite veins occur in this unit. There is approx. 0.5-2% pyrite in blebs of disseminate throughout this unit.														
263.75-268 m: This section is affected by weak chlorite alteration and moderate carbonate alteration. The chlorite is pervasive causing the rock to be slightly greenish-grey and the carbonate infills amygdules and vugs in the rock.														
268-314 m: This section is affected by moderate pervasive carbonate and silica alteration that has infilled hairline fractures to present a consistent stockwork of <1 cm thick quartz-carbonate stringer veins. Throughout this section there are approx. 2 m thick patches of strong chlorite alteration. Pyrite is visible in this section as 0.5% disseminated pyrite and 0.5% blebby pyrite.														
						264.0	265.0	1	0.0025	2.5	0.25	126	104	B0047502
						265.0	266.0	1	0.0025	2.5	0.25	51	87	B0047503
						266.0	267.0	1	0.0025	2.5	0.25	51	85	B0047504
						267.0	268.0	1	0.0025	2.5	0.25	52	95	B0047505
						268.0	269.0	1	0.0025	2.5	0.25	51	98	B0047506
						269.0	270.0	1	0.0025	2.5	0.25	52	102	B0047507
						270.0	271.0	1	0.0025	2.5	0.25	40	97	B0047508
						271.0	272.0	1	0.0025	2.5	0.25	41	94	B0047509
						272.0	273.0	1	0.0025	2.5	0.25	69	81	B0047510
						273.0	274.0	1	0.0025	2.5	0.25	54	84	B0047512
						274.0	275.0	1	0.0025	2.5	0.25	49	88	B0047513
						275.0	276.0	1	0.0025	2.5	0.25	98	78	B0047514
						276.0	277.0	1	0.0025	2.5	0.25	51	90	B0047515
						277.0	278.0	1	0.0025	2.5	0.25	55	88	B0047516
						278.0	279.0	1	0.0025	2.5	0.25	55	85	B0047517
						279.0	280.0	1	0.0025	2.5	0.25	54	81	B0047518
						280.0	281.0	1	0.005	2.5	0.25	77	91	B0047520
						281.0	282.0	1	0.005	2.5	0.25	59	117	B0047521
						282.0	283.0	1	0.008	2.5	0.25	65	117	B0047522
						283.0	284.0	1	0.0025	2.5	0.25	36	80	B0047523
						284.0	285.0	1	0.008	2.5	0.25	50	97	B0047524
						285.0	286.0	1	0.008	2.5	0.25	27	96	B0047525
						286.0	287.0	1	0.006	2.5	0.25	56	84	B0047526
						287.0	288.0	1	0.005	2.5	0.25	64	88	B0047527
						288.0	289.0	1	0.0025	2.5	0.25	44	100	B0047528
						289.0	290.0	1	0.0025	2.5	0.25	60	96	B0047529
						290.0	291.0	1	0.0025	2.5	0.25	42	111	B0047530
						291.0	292.0	1	0.0025	2.5	0.25	34	103	B0047531
						292.0	293.0	1	0.0025	2.5	0.25	35	101	B0047532
						293.0	294.0	1	0.0025	8	0.25	45	100	B0047534

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	294.0					295.0	295.0	1	0.005	2.5	0.25	108	123	B0047535
	295.0					296.0	296.0	1	0.005	2.5	0.25	110	110	B0047536
	296.0					297.0	297.0	1	0.0025	2.5	0.25	43	112	B0047537
	297.0					298.0	298.0	1	0.0025	2.5	0.25	14	37	B0047538
	298.0					299.0	299.0	1	0.0025	2.5	0.25	10	36	B0047539
	299.0					300.0	300.0	1	0.0025	2.5	0.25	4	31	B0047540
	300.0					301.0	301.0	1	0.011	2.5	0.25	59	101	B0047541
	301.0					302.0	302.0	1	0.053	2.5	0.25	37	100	B0047542
	302.0					303.0	303.0	1	0.056	2.5	0.25	67	89	B0047543
	303.0					304.0	304.0	1	0.068	2.5	0.25	16	37	B0047544
	304.0					305.0	305.0	1	0.012	2.5	0.25	10	37	B0047545
	305.0					306.0	306.0	1	0.055	2.5	0.25	10	37	B0047547
	306.0					307.0	307.0	1	0.008	2.5	0.25	14	38	B0047548
	307.0					308.0	308.0	1	0.007	2.5	0.25	64	106	B0047549
	308.0					309.0	309.0	1	0.007	2.5	0.25	60	98	B0047550
	309.0					310.0	310.0	1	0.005	2.5	0.25	65	92	B0047551
	310.0					311.0	311.0	1	0.0025	6	0.25	55	91	B0047552
	311.0					312.0	312.0	1	0.0025	7	0.25	60	91	B0047553
	312.0					313.0	313.0	1	0.0025	7	0.25	64	90	B0047554
	313.0					314.0	314.0	1	0.0025	2.5	0.6	41	83	B0047555
314	322.38	MV, MAFIC VOLCANIC	VARITEXTURE D	FINE	DARK GREY	314.0	315.0	1	0.0025	2.5	0.25	14	55	B0047556
Mafic volcanic unit. Strong silica alteration. Unit is dark grey with a fine grain size and displays weak deformation. Overall, the unit has a phenocrysts-dominated texture, with weak foliation. There is approx. 0.25% blebby pyrite throughout this unit.						319.09	320.0	0.91	0.0025	2.5	0.25	31	118	B0047557
314-319.09 m: This section shows ~0.25 cm sized quartz phenocrysts spaced ~0.5 cm apart. Moderate pervasive silica alteration present here.						320.0	321.0	1	0.005	2.5	0.25	35	106	B0047558
319.09-322.38 m: ~0.25 cm sized biotite grains are disseminated throughout this section to provide a "peppered" texture. Moderate pervasive chlorite and weak pervasive silica alteration present here.						321.0	322.0	1	0.006	2.5	0.25	26	104	B0047560
						322.0	322.7	0.7	0.023	2.5	0.25	36	77	B0047561
322.38	322.67	QV, QUARTZ VEIN	BANDED	FINE	WHITE	322.0	322.7	0.7	0.023	2.5	0.25	36	77	B0047561
A 29 cm thick white-grey quartz-chlorite-carbonate vein that is banded with chlorite and carbonate.														

Project: Van Horne									Hole Number: VH20-007					
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
322.67	324	MV, MAFIC VOLCANIC	VARITEXTURE D	FINE	DARK GREY	322.0	322.7	0.7	0.023	2.5	0.25	36	77	B0047561
Mafic volcanic unit. Strong silica alteration. Unit is dark grey with a fine grain size and displays weak deformation. Overall, the unit has a peppered/disseminated-biotite texture, with weak foliation. There is approx. 0.25% blebby pyrite throughout this unit.						322.7	323.19	0.49	0.106	2.5	0.25	15	49	B0047562
322.38-324 m: ~0.25 cm sized biotite grains are disseminated throughout this section to provide a "peppered" texture. Moderate pervasive chlorite and weak pervasive silica alteration present here.						323.19	324.0	0.81	0.006	2.5	0.25	11	62	B0047563

Project: Van Horne **Hole Number:** VH20-008

Drill Hole		Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Aug-23-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Aug-26-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,701
Orient:	ACT III	EOH:	282			Northing:	5,507,657
Hole Status:	COMPLETE	Logged Depth:	282			Elevation:	405

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	6	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-008

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
6	209.51	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	8.64	9.2	0.56	0.005	2.5	0.25	57	68	B0047564
Intermediate volcanic unit. Strong silica alteration, with patches moderate ankerite, carbonate, and chlorite alteration. Unit is light grey with a fine grain size and displays moderate deformation. Overall, the unit displays a massive texture, with moderate foliation. There are frequent occurrences of ~10 cm thick quartz veins. Mag sus reading is high throughout this unit, with visible occurrences of magnetite.						9.2	10.0	0.8	0.0025	2.5	0.25	3	56	B0047565
6-28.92 m: This section is affected by moderate fracture-fill ankerite alteration, weak pervasive silica alteration, and weak fracture-fill carbonate. There are smaller, pink-coloured veins, presumably containing K-spar. There is weak deformation in the form of a chlorite-defined foliation.						10.0	10.5	0.5	0.0025	2.5	0.25	12	67	B0047566
There are 5 bigger quartz veins in the previous section, all of different compositions. First at 9.25-9.32 m: a quartz-sericite vein, with a 2 cm ankerite alteration halo on either side. Second at 9.85-9.96 m: a quartz-ankerite-chlorite vein. Third at 10.33-10.43 m: a brecciated quartz-chlorite vein, clasts are 1 cm by 1 cm and angular. Brecciated vein is possibly along a fault margin. Fourth at 10.84-10.96 m: a quartz-chlorite-sericite vein. Fifth at 21.74-21.85 m: a quartz-tourmaline-sericite-ankerite vein.						10.5	11.5	1	0.0025	2.5	0.25	30	47	B0047567
28.92-72.75 m: This section is affected by strong pervasive silica alteration with intense silica bleaching on the form of a halo around veins located here. This section has a very high mag sus reading and has patches of visible magnetite. The magnetite displays a mottled mesh-texture in the rock, with possible biotite grains disseminated within these patches. Smoky quartz infills vugs and fractures within this section. There are periodic occurrences of 0.1 cm thick quartz stringer veins. There is 0.25% pyrite within hairline fractures and another 0.5% pyrite in the form of blebs. The blebby pyrite grains appear to have a pressure shadow around them. The pressure shadow along with the moderate magnetite-defined foliation indicate this section is subject to moderate deformation.						11.5	12.51	1.01	0.0025	2.5	0.25	13	84	B0047568
There are 4 bigger veins located in the previous section. First at 36.13-36.25 m: a k-spar-quartz-tourmaline-chlorite-sericite vein. Second at 44.83-44.88 m: a quartz-carbonate-chlorite vein. Third at 56.95-57.05 m: a quartz-carbonate-chlorite-pyrite vein. Fourth at 69.61-69.81 m: a quartz-chlorite-epidote-sericite vein.						16.0	17.0	1	0.009	2.5	0.25	5	365	B0047569
72.75-76.83 m: This zone is affected by strong pervasive silica and sericite alteration. The alteration has created a mottled texture in the rock and made it a lighter grey than previous sections. There is weak deformation here and no visible veins or sulfides.						17.0	18.0	1	0.0025	2.5	0.25	3	39	B0047570
76.83-83.30 m: Silica alteration decreases to weak-none in this section, but chlorite alteration increases to moderate pervasive. There is weak deformation here and no visible veins or sulfides.						18.0	19.0	1	0.0025	2.5	0.25	6	565	B0047571
83.30-98.96 m: This section is affected by strong pervasive silica alteration. This section has a very high mag sus reading and has patches of visible magnetite. The magnetite displays a mottled mesh-texture in the rock, with possible biotite grains disseminated within these patches. Smoky quartz infills vugs and fractures within this section. Deformation increases greatly in this section, with a greater abundance of sulfides. Moderate foliation defined by magnetite. Sulfides are visible as 0.5% disseminated pyrite, 0.5% blebby pyrite, and 0.5% vein-fill pyrite (in hairline veins).						19.0	20.0	1	0.0025	2.5	0.25	2	146	B0047573
98.96-110.37 m: This section has become green-grey in colour from moderate pervasive chlorite alteration, with weak carbonate alteration. There are patches of fracture-fill ankerite alteration. There is weak deformation here, but there is a set of <1 cm thick quartz stringer veins. There is 0.5% disseminated pyrite here.						20.0	21.0	1	0.0025	2.5	0.25	1	66	B0047574
110.37-114.37 m: This zone is affected by strong pervasive silica and sericite alteration. The alteration has created a mottled texture in the rock and made it a lighter grey than previous sections. There is weak deformation here and no visible veins or sulfides.						21.0	22.0	1	0.0025	2.5	0.25	8	99	B0047575
114.37-117.95 m: This section has become green-grey in colour from moderate pervasive chlorite alteration, with weak carbonate alteration. There are patches of fracture-fill ankerite alteration. There is weak deformation here. There is 0.5% disseminated pyrite here.						22.0	23.0	1	0.0025	2.5	0.5	7	126	B0047576
117.95-124.39 m: This section is silica bleached from strong pervasive silica alteration, with moderate carbonate alteration. There is moderate deformation here, with a set of <1 cm thick quartz stringer veins. There is 0.5% disseminated pyrite and 1% vein-fill pyrite.						27.8	28.8	1	0.0025	2.5	0.25	3	34	B0047577
						28.8	29.5	0.7	0.0025	2.5	0.25	2	38	B0047578
						29.5	30.0	0.5	0.0025	2.5	0.25	3	45	B0047579
						30.0	31.0	1	0.0025	2.5	0.25	5	56	B0047580
						34.0	35.0	1	0.0025	2.5	0.25	32	40	B0047581
						35.0	36.0	1	0.0025	2.5	0.25	22	55	B0047582
						36.0	36.5	0.5	0.0025	2.5	0.25	11	45	B0047583
						36.5	37.0	0.5	0.0025	2.5	0.25	2	54	B0047584
						37.0	38.0	1	0.0025	2.5	0.25	7	62	B0047585
						38.0	39.0	1	0.0025	2.5	0.25	6	64	B0047586
						44.0	45.0	1	0.005	2.5	0.25	55	109	B0047587
						45.0	46.0	1	0.0025	2.5	0.25	6	78	B0047588
						46.0	47.0	1	0.0025	2.5	0.25	2	75	B0047589
						47.0	48.0	1	0.0025	6	0.25	1	70	B0047591
						48.0	49.0	1	0.0025	2.5	0.25	3	59	B0047592
						49.0	50.0	1	0.0025	2.5	0.25	3	63	B0047593
						50.0	51.0	1	0.0025	2.5	0.25	13	74	B0047594
						51.0	52.0	1	0.0025	2.5	0.25	2	71	B0047595
						52.0	53.0	1	0.0025	2.5	0.25	2	63	B0047596

Project: Van Horne

Hole Number: VH20-008

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
There are 3 bigger veins in the previous section. First at 121.17-121.36 m: a quartz-carbonate-chlorite-pyrite vein.						53.0	54.0	1	0.0025	2.5	0.25	5	80	B0047598
Second at 122.04-122.21 m: a quartz-carbonate-chlorite-tourmaline-pyrite vein. Third at 124.28-124.36 m: a quartz-carbonate-chlorite vein.						54.0	55.0	1	0.0025	2.5	0.25	20	71	B0047599
124.39-180.27 m: This section is affected by moderate pervasive silica alteration and moderate pervasive chlorite alteration. Within this section, there are occasion patches where the chlorite or silica alteration increases to strong. These patches are visible through turning the rock a green-grey or turning the rock a light-grey (through silica bleaching). There is a consistent set of hairline (<0.5 cm) quartz-carbonate stringer veins. Occasionally, there are 0.5-1 cm quartz veins that appear to have a pure chlorite vein right next to them (below and/or above). There is 1-2% disseminated pyrite throughout this section.						55.0	56.0	1	0.009	2.5	0.25	91	82	B0047600
						56.0	57.0	1	0.0025	2.5	0.25	20	81	B0047601
						57.0	58.0	1	0.0025	2.5	0.25	13	80	B0047602
						58.0	59.0	1	0.0025	2.5	0.25	3	87	B0047603
180.27-188.98 m: A section of strong pervasive silica alteration causing silica bleaching to turn the rock light-grey.						59.0	60.0	1	0.0025	2.5	0.25	2	64	B0047604
188.98-192.29 m: A section of strong pervasive chlorite alteration, with weak silica alteration.						60.0	61.0	1	0.0025	2.5	0.25	17	76	B0047605
192.29-206.83 m: A section of strong pervasive silica alteration causing silica bleaching to turn the rock light-grey, presumably a part of the alteration halo surrounding the following veins.						61.0	61.5	0.5	0.0025	2.5	0.25	36	95	B0047606
						66.0	67.0	1	0.0025	2.5	0.25	3	70	B0047607
206.83-209.51 m: A strong pervasive chlorite alteration halo, with moderate pervasive silica.						67.0	68.0	1	0.0025	2.5	0.25	9	86	B0047608
177.0 - 178.0 : Quartz Vein, Concordant with foliation						68.0	69.0	1	0.0025	2.5	0.25	9	70	B0047609
						69.0	70.0	1	0.0025	2.5	0.25	1	53	B0047610
						70.0	71.0	1	0.0025	2.5	0.25	3	56	B0047612
						71.0	72.0	1	0.0025	2.5	0.25	1	68	B0047613
						72.0	73.0	1	0.0025	2.5	0.25	6	127	B0047614
						73.0	74.0	1	0.0025	2.5	0.25	2	77	B0047615
						74.0	75.0	1	0.0025	2.5	0.25	3	56	B0047616
						75.0	76.0	1	0.0025	2.5	0.25	3	34	B0047617
						76.0	76.87	0.87	0.0025	2.5	0.25	7	43	B0047618
						76.87	77.39	0.52	0.0025	2.5	0.25	19	154	B0047619
						77.39	78.4	1.01	0.0025	2.5	0.25	14	163	B0047620
						78.4	79.0	0.6	0.0025	2.5	0.25	17	111	B0047621
						82.53	83.3	0.77	0.0025	2.5	0.25	55	142	B0047622
						83.3	84.0	0.7	0.0025	5	0.25	7	156	B0047623
						84.0	85.0	1	0.0025	2.5	0.25	5	39	B0047624
						85.0	86.0	1	0.0025	2.5	0.25	5	58	B0047626
						86.0	87.0	1	0.0025	2.5	0.25	1	62	B0047627
						87.0	88.0	1	0.0025	2.5	0.25	2	61	B0047628
						88.0	89.0	1	0.0025	2.5	0.25	2	75	B0047629
						89.0	90.0	1	0.0025	2.5	0.25	3	69	B0047630

Project: Van Horne

Hole Number: VH20-008

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	90.0					91.0	91.0	1	0.0025	2.5	0.25	3	75	B0047631
	91.0					92.0	92.0	1	0.0025	2.5	0.25	4	64	B0047632
	98.8					99.3	99.3	0.5	0.0025	6	0.25	22	126	B0047633
	99.3					100.0	100.0	0.7	0.0025	2.5	0.25	31	117	B0047634
	100.0					101.0	101.0	1	0.0025	2.5	0.25	54	120	B0047635
	101.0					102.0	102.0	1	0.0025	2.5	0.25	59	118	B0047636
	102.0					103.0	103.0	1	0.0025	2.5	0.25	58	117	B0047637
	103.0					104.0	104.0	1	0.0025	2.5	0.25	59	115	B0047638
	104.0					105.0	105.0	1	0.0025	11	0.25	58	116	B0047640
	105.0					106.0	106.0	1	0.386	7	1.4	19	68	B0047641
	106.0					107.0	107.0	1	0.0025	2.5	0.25	27	67	B0047642
	107.0					108.0	108.0	1	0.0025	2.5	0.25	24	96	B0047643
	108.0					109.0	109.0	1	0.0025	2.5	0.25	13	74	B0047644
	109.0					110.0	110.0	1	0.0025	2.5	0.25	4	43	B0047645
	110.0					111.0	111.0	1	0.0025	2.5	0.25	2	45	B0047646
	111.0					112.0	112.0	1	0.0025	2.5	0.25	2	34	B0047647
	112.0					113.0	113.0	1	0.0025	2.5	0.25	5	29	B0047648
	113.0					113.5	113.5	0.5	0.0025	2.5	0.25	5	47	B0047649
	113.5					114.36	114.36	0.86	0.0025	2.5	0.25	21	96	B0047650
	121.18					121.93	121.93	0.75	0.138	5	0.25	11	81	B0047651
	121.93					122.57	122.57	0.64	0.58	5	0.25	45	247	B0047652
	122.57					123.55	123.55	0.98	0.0025	2.5	0.25	26	166	B0047654
	123.55					124.5	124.5	0.95	0.0025	2.5	0.25	14	87	B0047655
	124.5					125.0	125.0	0.5	0.0025	2.5	0.25	12	51	B0047656
	130.0					131.0	131.0	1	0.0025	2.5	0.25	6	66	B0047657
	131.0					132.0	132.0	1	0.0025	5	0.25	18	93	B0047658
	147.0					148.0	148.0	1	0.0025	2.5	0.25	4	92	B0047659
	148.0					149.0	149.0	1	0.0025	2.5	0.25	9	89	B0047660
	149.0					150.0	150.0	1	0.0025	2.5	0.25	4	71	B0047661
	150.0					150.44	150.44	0.44	0.0025	2.5	0.25	4	64	B0047662
	166.25					167.0	167.0	0.75	0.0025	2.5	0.25	19	85	B0047703

Project: Van Horne

Hole Number: VH20-008

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						167.0	168.0	1	0.0025	2.5	0.25	50	113	B0047704
						180.0	181.0	1	0.0025	2.5	0.25	6	78	B0047663
						181.0	182.0	1	0.005	2.5	0.25	26	102	B0047664
						182.0	183.0	1	0.023	2.5	0.25	8	63	B0047665
						183.0	184.0	1	0.005	2.5	0.25	29	109	B0047666
						184.0	185.0	1	0.19	2.5	0.25	14	74	B0047668
						185.0	186.0	1	0.017	2.5	0.25	11	93	B0047669
						186.0	187.0	1	0.103	2.5	0.25	10	98	B0047670
						187.0	188.0	1	0.026	2.5	0.25	8	78	B0047671
						188.0	189.0	1	0.029	2.5	0.25	31	105	B0047672
						189.0	190.0	1	0.015	2.5	0.25	27	112	B0047673
						190.0	191.0	1	0.0025	2.5	0.25	9	76	B0047674
						191.0	191.61	0.61	0.0025	2.5	0.25	19	161	B0047676
						196.1	197.0	0.9	0.234	2.5	0.25	17	99	B0047677
						197.0	198.0	1	0.055	2.5	0.25	5	103	B0047678
						198.0	199.0	1	0.022	2.5	0.25	5	83	B0047679
						199.0	200.0	1	0.0025	2.5	0.25	7	88	B0047680
						200.0	201.0	1	0.157	2.5	0.25	10	96	B0047681
						201.0	201.7	0.7	1.73	2.5	0.25	27	92	B0047682
						206.72	207.5	0.78	0.0025	2.5	0.25	42	98	B0047683
						207.5	208.0	0.5	0.0025	2.5	0.25	41	101	B0047684
						208.0	209.0	1	0.0025	2.5	0.25	40	86	B0047685
						209.0	209.5	0.5	0.008	2.5	0.25	53	75	B0047686
						209.5	210.0	0.5	1.145	2.5	0.25	26	41	B0047687
209.51	209.78	QV, QUARTZ VEIN	BANDED	MEDIUM	WHITE	209.5	210.0	0.5	1.145	2.5	0.25	26	41	B0047687
A 27 cm thick quartz-carbonate-chlorite-pyrite vein. Chlorite and carbonate and banded in the vein to provide a layered texture. This vein is surrounded by a chlorite alteration halo, then followed by a silica alteration halo.														
209.78	210.68	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	209.5	210.0	0.5	1.145	2.5	0.25	26	41	B0047687
A strong pervasive chlorite alteration halo, with moderate pervasive silica.														
						210.0	210.6	0.6	0.774	2.5	0.25	37	94	B0047688
						210.6	211.5	0.9	1.7	8	0.25	15	155	B0047690

Project: Van Horne								Hole Number: VH20-008							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample	
210.68	211.02	QV, QUARTZ VEIN	BANDED	MEDIUM	WHITE	210.6	211.5	0.9	1.7	8	0.25	15	155	B0047690	
A 34 cm thick quartz-carbonate-chlorite-sericite-pyrite-pyrrhotite vein. This vein is banded with chlorite and shows patches of sericite and carbonate. There are some patches of pyrrhotite surrounded by pyrite grains.															
211.02	213.68	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	210.6	211.5	0.9	1.7	8	0.25	15	155	B0047690	
A strong pervasive chlorite alteration halo, with moderate pervasive silica.															
						211.5	212.0	0.5	0.005	2.5	0.25	4	102	B0047691	
						212.0	213.0	1	0.0025	2.5	0.25	7	113	B0047692	
						213.0	213.66	0.66	0.018	2.5	0.25	30	64	B0047693	
						213.66	214.66	1	0.438	2.5	0.25	16	51	B0047694	
213.68	213.84	QV, QUARTZ VEIN	BANDED	MEDIUM	WHITE	213.66	214.66	1	0.438	2.5	0.25	16	51	B0047694	
A 16 cm thick quartz-carbonate-chlorite-pyrite vein. Same style as previous large veins.															

Project: Van Horne							Hole Number: VH20-008								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample	
213.84	258.92	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	213.66	214.66	1	0.438	2.5	0.25	16	51	B0047694	
Intermediate volcanic unit. Strong silica alteration, with patches moderate ankerite, carbonate, and chlorite alteration. Unit is light grey with a fine grain size and displays moderate deformation. Overall, the unit displays a massive texture, with moderate foliation. There are frequent occurrences of ~10 cm thick quartz veins. Mag sus reading is high throughout this unit, with visible occurrences of magnetite.						214.66	215.3	0.64	0.0025	2.5	0.25	16	87	B0047695	
213.84-218.80 m: A strong pervasive chlorite alteration halo, with moderate pervasive silica.						215.3	216.0	0.7	0.0025	2.5	0.25	19	123	B0047696	
218.80-234.98 m: Moderate pervasive silica and chlorite affect this section. There is a stockwork of <1 cm thick quartz-carb stringer veins throughout this section.						216.0	217.0	1	0.0025	2.5	0.25	30	54	B0047697	
234.98-251.68 m: This section has been affected by moderate deformation, visible in the form of a chlorite-defined foliation. This section has a high mag sus reading and shows visible magnetite. It is affected by moderate silica alteration and weak chlorite alteration. There are visible biotite grains within this section and 0.5% disseminated pyrite. There are occurrences of <0.5 cm thick quartz-carb stringer veins.						226.0	227.0	1	0.0025	2.5	0.25	58	128	B0047698	
251.68-258.92 m: Deformation increases to strong in this section and foliation becomes more obvious. This section appears to be a strong chlorite and moderate pervasive silica alteration halo around the following vein. There is 1% disseminated pyrite in this section.						227.0	228.0	1	0.0025	2.5	0.25	55	118	B0047699	
						228.0	229.0	1	0.0025	2.5	0.25	55	116	B0047700	
						229.0	230.0	1	0.0025	2.5	0.25	48	123	B0047701	
						230.0	231.0	1	0.0025	2.5	0.25	43	113	B0047702	
						240.0	241.0	1	0.0025	2.5	0.25	5	49	B0047706	
						241.0	242.0	1	0.0025	2.5	0.25	1	44	B0047707	
						242.0	243.0	1	0.0025	2.5	0.25	1	44	B0047708	
						243.0	244.0	1	0.0025	2.5	0.25	2	47	B0047709	
						244.0	245.0	1	0.0025	2.5	0.25	23	71	B0047710	
						248.0	249.0	1	0.0025	2.5	0.25	33	122	B0047711	
						249.0	250.0	1	0.0025	2.5	0.25	35	97	B0047712	
						250.0	251.0	1	0.0025	2.5	0.25	16	74	B0047713	
						251.0	251.69	0.69	0.0025	2.5	0.25	25	69	B0047714	
						255.0	256.0	1	0.0025	2.5	0.25	25	72	B0047715	
						256.0	257.0	1	0.0025	2.5	0.25	47	70	B0047716	
						257.0	258.0	1	0.005	2.5	0.25	59	92	B0047718	
						258.0	258.64	0.64	0.006	2.5	0.25	44	106	B0047719	
						258.64	259.32	0.68	0.015	2.5	0.25	22	71	B0047720	
258.92	259.56	QV, QUARTZ VEIN	BANDED	MEDIUM	BEIGE	258.64	259.32	0.68	0.015	2.5	0.25	22	71	B0047720	
A 64 cm thick quartz-chlorite-feldspar-pyrite vein. Above the vein there is a chlorite alteration halo and below the vein there is a QFP intrusion.						259.32	260.0	0.68	0.0025	2.5	0.25	2	28	B0047721	

Project: Van Horne							Hole Number: VH20-008							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
259.56	265.11	FP, FELDSPAR PORPHYRY	PORPHYRITIC	COARSE	RED-BROWN	259.32	260.0	0.68	0.0025	2.5	0.25	2	28	B0047721
Quartz-feldspar porphyry unit. Strong silica alteration, with coarse quartz and feldspar grains. Unit is light red-brown in colour and has a coarse grain size. The intrusion has caused moderate deformation in the host rock surrounding it. Overall, the unit displays a porphyritic texture. There are frequent occurrences of vertically oriented 1 cm thick quartz-chlorite veins. There is 1% blebby pyrite in this unit.						260.0	261.0	1	0.0025	2.5	0.25	2	19	B0047722
						261.0	262.0	1	0.0025	2.5	0.25	2	32	B0047723
						262.0	263.0	1	0.006	2.5	0.25	19	47	B0047724
						263.0	264.0	1	0.014	2.5	0.25	15	58	B0047725
						264.0	265.0	1	0.0025	2.5	0.25	9	40	B0047726
						265.0	266.0	1	0.0025	2.5	0.25	44	100	B0047727
265.11	269.75	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	265.0	266.0	1	0.0025	2.5	0.25	44	100	B0047727
Intermediate volcanic unit continuation. This unit appears to be a strong chlorite and moderate pervasive silica alteration halo around the following previous vein. This unit is green-grey with a fine grain size and massive-foliated texture. Deformation is strong in this unit with a chlorite-defined foliation. Deformation in this region is presumably an affect of the felsic intrusion. There are quartz and epidote-filled veins here. There is 1% disseminated pyrite in this unit.						266.0	267.0	1	0.0025	2.5	0.25	111	109	B0047728
						267.0	268.0	1	0.0025	2.5	0.25	61	149	B0047729
						268.0	269.0	1	0.0025	2.5	0.25	77	142	B0047730
						269.0	269.75	0.75	0.006	2.5	0.25	59	124	B0047732
269.75	270.35	FP, FELDSPAR PORPHYRY	PORPHYRITIC	COARSE	RED-BROWN	269.75	270.36	0.61	0.0025	2.5	0.25	11	32	B0047733
Quartz-feldspar porphyry unit. Strong silica alteration, with coarse quartz and feldspar grains. Unit is light red-brown in colour and has a coarse grain size. The intrusion has caused moderate deformation in the host rock surrounding it. Overall, the unit displays a porphyritic texture. There are frequent occurrences of vertically oriented 1 cm thick quartz-chlorite veins. There is 1% blebby pyrite in this unit.						269.75	270.36	0.61	0.0025	2.5	0.25	11	32	B0047733
						270.35	282	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREEN-GREY	269.75	270.36	0.61
Intermediate volcanic unit continuation. This unit appears to be affected by moderate pervasive silica and chlorite alteration. This unit is dark grey with a fine grain size and massive texture. Deformation is weak in this section. There are occasional <1 cm thick quartz-carbonate stringer veins. There is 1% disseminated pyrite in this unit.						270.36	271.0	0.64	0.0025	2.5	0.25	49	102	B0047734
						271.0	272.0	1	0.0025	2.5	0.25	51	95	B0047735
						272.0	273.0	1	0.0025	2.5	0.25	85	125	B0047736
						273.0	274.0	1	0.0025	2.5	0.25	66	104	B0047737
						274.0	275.0	1	0.0025	2.5	0.25	147	191	B0047738
						275.0	276.0	1	0.0025	2.5	0.25	74	133	B0047739
						276.0	277.0	1	0.0025	2.5	0.25	74	176	B0047740
						277.0	278.0	1	0.0025	2.5	0.25	41	80	B0047741

Project: Van Horne **Hole Number:** VH20-009

Drill Hole		Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Aug-26-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Aug-30-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,759
Orient:	ACT III	EOH:	300			Northing:	5,507,652
Hole Status:	COMPLETE	Logged Depth:	300			Elevation:	394

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
6	70.75	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	6.51	7.23	0.72	0.0025	2.5	0.25	61	197	B0047742
Intermediate volcanic unit. Weak-moderate silicification, with weak-moderate carbonate alteration. Patches of weak fracture-fill ankerite and weak pervasive chlorite. Unit is brown-grey with a fine grain size and displays weak deformation. Overall, the unit displays a massive texture, with weak-no foliation. Occasional occurrences of 0.25-0.5 cm thick quartz-carbonate stringer veins.						18.0	19.0	1	0.0025	2.5	0.25	12	151	B0047743
						19.0	20.0	1	0.0025	2.5	0.25	21	81	B0047744
6-7.2 m: This first section of this hole is slightly tinted red from iron staining to produce a red-brown-grey colour. This section is affected by moderate pervasive hematite and moderate fracture-fill ankerite alteration. Weak deformation is observed and there are few quartz-carb veins and no sulfides present.						20.0	21.0	1	0.0025	2.5	0.25	15	86	B0047746
						21.0	22.0	1	0.0025	2.5	0.25	11	84	B0047747
7.2-35.45 m: This section is weakly silicified and presents weak fracture-fill ankerite alteration and moderate pervasive/fracture-fill carbonate alteration. There is no foliation observed and shows weak signs of deformation. There are some faint hairline quartz-carbonate stringer veins observed in this section, but no sulfides present.						22.0	23.0	1	0.0025	2.5	0.25	14	87	B0047748
						23.0	24.0	1	0.0025	2.5	0.25	40	87	B0047749
35.45-51.08 m: This section shows moderate silicification and weak pervasive chlorite alteration. From 40-41 m there is a small stockwork of quartz-carbonate stringer veins with larger grains of chlorite mixed in. Approx. 0.25% disseminated pyrite here.						24.0	25.0	1	0.0025	2.5	0.25	42	84	B0047750
						36.1	37.0	0.9	0.0025	2.5	0.25	18	132	B0047751
						37.0	38.0	1	0.0025	2.5	0.25	31	137	B0047752
51.08-62.13 m: This section is affected by strong pervasive and fracture-fill carbonate alteration. There are frequent occurrences of 1 cm by 1 cm (slightly elongated) vugs that have been infilled by carbonate-rich fluids.						38.0	39.0	1	0.0025	2.5	0.25	40	111	B0047754
						39.0	40.0	1	0.0025	2.5	0.25	52	92	B0047755
62.13-70.75 m: This section contains many 0.5-2 cm thick quartz-carbonate stringer veins. The host rock is affected by strong-intense pervasive chlorite alteration with moderate carbonate alteration. The rock becomes a green-grey here. This section contains 0.5% disseminated pyrite and 1% blebby pyrite.						40.0	41.0	1	0.0025	2.5	0.25	45	86	B0047756
						41.0	42.0	1	0.0025	2.5	0.25	17	98	B0047757
						42.0	43.0	1	0.0025	2.5	0.25	13	109	B0047758
						43.0	44.0	1	0.0025	2.5	0.25	16	99	B0047759
						44.0	45.0	1	0.0025	2.5	0.25	15	110	B0047760
						45.0	46.0	1	0.0025	2.5	0.25	21	103	B0047761
						46.0	47.0	1	0.0025	2.5	0.25	11	114	B0047762
						47.0	48.0	1	0.0025	2.5	0.25	80	110	B0047763
						48.0	49.0	1	0.0025	2.5	0.25	40	124	B0047764
						49.0	50.0	1	0.0025	2.5	0.25	17	99	B0047765
						50.0	51.0	1	0.0025	2.5	0.25	26	105	B0047766
						54.0	55.0	1	0.0025	5	0.25	20	110	B0047768
						55.0	56.0	1	0.0025	2.5	0.25	15	105	B0047769
						56.0	57.0	1	0.0025	2.5	0.25	28	103	B0047770
						57.0	58.0	1	0.0025	2.5	0.25	15	105	B0047771
						58.0	59.0	1	0.0025	2.5	0.25	23	106	B0047772
						59.0	60.0	1	0.0025	2.5	0.25	14	103	B0047773
						60.0	61.0	1	0.0025	2.5	0.25	26	100	B0047774
						61.0	61.53	0.53	0.0025	2.5	0.25	32	86	B0047775

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						61.53	62.13	0.6	0.0025	2.5	0.25	51	79	B0047776
						62.13	63.0	0.87	0.0025	2.5	0.25	41	111	B0047777
						63.0	64.0	1	0.0025	2.5	0.25	46	128	B0047778
						64.0	65.0	1	0.0025	2.5	0.25	39	129	B0047779
						65.0	66.0	1	0.0025	2.5	0.25	62	74	B0047781
						66.0	67.0	1	0.007	2.5	0.25	37	93	B0047782
						67.0	68.0	1	0.008	2.5	0.25	88	120	B0047783
						68.0	69.0	1	0.013	2.5	0.25	50	120	B0047784
						69.0	70.0	1	0.005	2.5	0.25	61	132	B0047785
						70.0	71.0	1	0.0025	2.5	0.25	34	114	B0047786
70.75	75.27	IVCL, INTERMEDIATE VOLCANICLASTIC	POLYMICTIC	FINE	DARK GREY	70.0	71.0	1	0.0025	2.5	0.25	34	114	B0047786
		Intermediate volcanoclastic unit. Weak-moderate silicification, with moderate pervasive carbonate alteration affecting clasts and weak chlorite affecting host rock. Unit is green-grey with a fine grain size and displays moderate deformation in the form of elongated clasts. Overall, the unit displays a polyimictic texture. No obvious vein occurrences, but contains 0.5-1% blebby pyrite.				71.0	72.0	1	0.0025	2.5	0.25	22	160	B0047787
						72.0	73.0	1	0.0025	2.5	0.25	15	165	B0047788
						73.0	74.0	1	0.0025	2.5	0.25	20	81	B0047789

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
75.27	105.51	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	78.81	79.62	0.81	0.0025	2.5	0.25	1	82	B0047790
Intermediate volcanic unit. Strong-intense silicification, with moderate pervasive carbonate and chlorite alteration. Patches of weak fracture-fill ankerite and hematite alteration. Unit is green-grey with a fine grain size and displays moderate deformation, with deformation most intense around quartz vein following this unit. Overall, the unit displays a massive texture, with a weak foliation. Minimal veinlets and 0.5-1.5% blebby pyrite.														
75.27-86.91 m: This section is feldspar-phyric (contains feldspar phenocrysts). In addition to the phenocrysts, this rock presents a net/mesh texture in regions where the moderate pervasive carbonate alteration fluids have infilled fractures. There are some small patches of 0.5 cm 0.5 cm angular clasts, presumably along a fault domain. This section contains 0.5% disseminated pyrite and 0.5% blebby pyrite.														
86.91-105.51 m: This section is a strong silica alteration halo around the following vein. There are patches of fracture-fill ankerite and hematite alteration, most obvious in highly fractured zones. At 102.58-102.69 m there is an 11 cm thick quartz-carbonate-chlorite-tourmaline vein. This section contains 0.5% disseminated pyrite and 0.5% blebby pyrite.														
						79.62	80.22	0.6	0.0025	2.5	0.25	1	73	B0047791
						80.22	81.0	0.78	0.0025	2.5	0.25	2	79	B0047792
						81.0	82.0	1	0.0025	2.5	0.25	5	117	B0047794
						82.0	83.0	1	0.0025	5	0.25	2	100	B0047795
						83.0	84.0	1	0.0025	2.5	0.25	1	85	B0047796
						84.0	85.0	1	0.0025	2.5	0.25	1	94	B0047797
						85.0	86.0	1	0.0025	2.5	0.25	1	84	B0047798
						86.0	86.9	0.9	0.0025	2.5	0.25	3	110	B0047799
						90.0	91.0	1	0.01	2.5	0.25	15	179	B0047800
						91.0	92.0	1	0.0025	5	0.25	3	65	B0047801
						92.0	93.0	1	0.0025	2.5	0.25	1	65	B0047802
						93.0	94.0	1	0.0025	2.5	0.25	5	41	B0047803
						94.0	95.0	1	0.0025	2.5	0.25	5	41	B0047804
						95.0	96.0	1	0.0025	2.5	0.25	2	59	B0047805
						96.0	97.0	1	0.0025	2.5	0.25	5	65	B0047807
						97.0	98.0	1	0.005	6	0.25	15	93	B0047808
						98.0	99.0	1	0.007	2.5	0.25	20	123	B0047809
						99.0	100.0	1	0.0025	2.5	0.25	16	98	B0047810
						100.0	101.0	1	0.0025	2.5	0.25	10	74	B0047811
						101.0	102.0	1	0.006	2.5	0.25	30	79	B0047812
						102.0	102.93	0.93	0.069	2.5	0.25	21	67	B0047813
						102.93	103.62	0.69	0.047	5	0.25	8	96	B0047814
						103.62	104.34	0.72	0.181	2.5	0.25	13	100	B0047815
						104.34	105.34	1	0.03	2.5	0.25	16	80	B0047816
						105.34	106.0	0.66	0.07	6	0.25	3	50	B0047817
105.51	105.84	QV, QUARTZ VEIN	BANDED	FINE	WHITE	105.34	106.0	0.66	0.07	6	0.25	3	50	B0047817

A 33 cm thick quartz-carbonate-chlorite-pyrite vein. This vein is surrounded by an intense silica alteration halo. This vein is banded with chlorite and contains 2% vein-fill pyrite.

105.51 - 105.84 : Quartz Vein, 33 cm thick quartz-carbonate-chlorite-tourmaline-pyrite vein.

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
105.84	118.82	IVCL, INTERMEDIATE VOLCANICLASTIC	VUGGY	FINE	LIGHT GREY	105.34	106.0	0.66	0.07	6	0.25	3	50	B0047817
Intermediate volcanoclastic unit. Strong-intense silicification, with patches of weak fracture-fill ankerite and hematite alteration. Unit is light-grey with a fine grain size and displays moderate deformation, with deformation most intense around quartz vein previous this unit, observed in the form of elongated clasts. Clasts are angular and vary in size (0.5-3 cm width and 2-3 cm length). Quartz and carbonate is seen to infill clasts and silica bleaching makes clast-wall rock domain difficult to distinguish. Overall, the unit displays a massive texture, with a weak foliation. Minimal veinlets and 0.5-1.5% blebby pyrite.														
						106.0	107.0	1	0.0025	2.5	0.25	14	84	B0047818
						107.0	108.0	1	0.015	2.5	0.25	7	211	B0047819
						108.0	109.0	1	0.007	2.5	0.25	8	80	B0047820
						109.0	110.0	1	0.0025	2.5	0.25	3	66	B0047821
						110.0	111.0	1	0.0025	2.5	0.25	10	50	B0047822
						111.0	112.0	1	0.0025	2.5	0.25	16	96	B0047823
						112.0	113.0	1	0.0025	6	0.25	14	111	B0047825
						113.0	114.0	1	0.0025	2.5	0.25	21	121	B0047826
						114.0	115.0	1	0.006	2.5	0.25	30	143	B0047827
						115.0	116.0	1	0.0025	2.5	0.25	16	125	B0047828
						116.0	117.0	1	0.0025	2.5	0.25	14	46	B0047829
						117.0	117.9	0.9	0.345	5	0.25	5	28	B0047830
						117.9	118.5	0.6	0.656	5	0.25	9	55	B0047832
						118.5	119.2	0.7	0.04	2.5	0.25	7	104	B0047833

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
118.82	142.33	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	118.5	119.2	0.7	0.04	2.5	0.25	7	104	B0047833
Intermediate volcanic unit. Moderate silicification, with patches of intense silicification and silica bleaching. Carbonate alteration is observed to infill fractures. Unit is dark grey with a fine grain size and displays moderate deformation, with deformation most intense around quartz veins (foliation seen to run parallel observed stringer veins). Overall, the unit displays a massive texture, with a weak foliation. Occasional veinlets hosting 1-3% vein-fill pyrite, and 1 % blebby pyrite and 1-2% disseminated pyrite seen in the host rock.						119.2	120.0	0.8	0.117	2.5	0.25	9	105	B0047834
						120.0	121.0	1	0.112	2.5	0.25	6	93	B0047835
						121.0	122.0	1	0.0025	2.5	0.25	6	93	B0047836
118.82-129.65 m: This section is where the silica alteration halo from the previous vein begins to grade out. There is moderate pervasive silica alteration and weak pervasive carbonate alteration in this section. There are occasional 0.5 cm thick quartz-carbonate stringer veins, seen to host 2% vein-fill pyrite. There are dense patches 0.1 cm by 0.1 cm feldspar? phenocrysts.						122.0	123.0	1	0.051	2.5	0.25	16	152	B0047837
						123.0	124.0	1	0.0025	2.5	0.25	10	117	B0047838
						124.0	125.0	1	0.0025	2.5	0.25	12	76	B0047839
129.65-131.61 m: This section is an intense patch of pervasive silica alteration, silica bleaching causing the rock to turn a light-grey. It contains ~6 1.5-4 cm thick vertical and horizontal quartz-carbonate veins. There are faint patches of weak hematite alteration in this section. 0.5% disseminated pyrite in the host rock.						125.0	126.0	1	0.0025	2.5	0.25	9	116	B0047840
						126.0	127.0	1	0.0025	2.5	0.25	14	120	B0047841
131.61-137 m: This section has a drop in silicification to moderate pervasive silica and weak pervasive chlorite alteration. There are a few 1 cm thick quartz-carbonate-chlorite veins and 1% disseminated pyrite.						127.0	128.0	1	0.0025	2.5	0.25	4	31	B0047842
						128.0	129.0	1	0.0025	2.5	0.25	15	31	B0047843
137-142.33 m: Strong silica alteration halo around following vein. This section contains multiple 1-7 cm thick quartz-carbonate-tourmaline-chlorite veins (presumably related to the large vein following). 1% blebby pyrite in host rock.						129.0	129.65	0.65	0.0025	2.5	0.25	16	60	B0047844
						129.65	130.48	0.83	0.007	2.5	0.25	50	94	B0047846
142.0 - 142.75 : Quartz Vein, A grouping of 2 larger quartz-carbonate-tourmaline veins within intense silica alteration halo. 1) 2 cm 2) 15 cm. Intervals of vein blowouts within section. 2% vein-fill pyrite, 2% pyrrhotite.						130.48	131.0	0.52	0.105	2.5	0.9	12	851	B0047847
						131.0	131.6	0.6	0.0025	2.5	0.25	3	19	B0047848
						131.6	132.2	0.6	0.0025	2.5	0.25	12	43	B0047849
						132.2	133.0	0.8	0.0025	2.5	0.25	12	37	B0047850
						133.0	134.0	1	0.0025	2.5	0.25	23	34	B0047851
						134.0	135.0	1	0.0025	2.5	0.25	12	30	B0047852
						135.0	136.0	1	0.188	2.5	0.25	14	27	B0047854
						136.0	137.0	1	0.0025	2.5	0.25	5	27	B0047855
						137.0	138.0	1	0.0025	2.5	0.25	8	37	B0047856
						138.0	139.0	1	0.0025	2.5	0.25	15	42	B0047857
						139.0	140.0	1	0.01	2.5	0.25	9	46	B0047858
						140.0	141.0	1	0.0025	2.5	0.25	5	40	B0047859
						141.0	141.9	0.9	0.023	2.5	0.25	15	85	B0047860
						141.9	142.5	0.6	0.0025	2.5	0.25	17	74	B0047861

Project: Van Horne									Hole Number: VH20-009					
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
142.33	142.75	QV, QUARTZ VEIN	BANDED	FINE	WHITE	141.9	142.5	0.6	0.0025	2.5	0.25	17	74	B0047861
An irregular 42 cm thick quartz-caarbonate-tourmaline-chlorite vein. Surrounded by an intense silica alteration halo.						142.5	143.2	0.7	0.0025	2.5	0.25	28	85	B0047862
142.0 - 142.75 : Quartz Vein, A grouping of 2 larger quartz-carbonate-tourmaline veins within intense silica alteration halo. 1) 2 cm 2) 15 cm. Intervals of vein blowouts within section. 2% vein-fill pyrite, 2% pyrrhotite.														

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
142.75	300	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	142.5	143.2	0.7	0.0025	2.5	0.25	28	85	B0047862
Intermediate volcanic unit. Moderate silicification, with patches of intense silicification and silica bleaching. Carbonate alteration is observed to infill fractures. Unit is dark grey with a fine grain size and displays moderate deformation, with deformation most intense around quartz veins (foliation seen to run parallel observed stringer veins). Overall, the unit displays a massive texture, with a weak foliation. Occasional veinlets hosting 1-3% vein-fill pyrite, and 1 % blebby pyrite and 1-2% disseminated pyrite seen in the host rock.														
143.2	144.0					143.2	144.0	0.8	0.006	2.5	0.25	30	85	B0047863
144.0	144.5					144.0	144.5	0.5	0.125	2.5	0.25	27	72	B0047864
144.5	145.0					144.5	145.0	0.5	0.1	2.5	0.25	26	94	B0047865
142.75-145.06 m: Strong silica alteration halo around above vein. This section contains multiple 1-7 cm thick quartz-carbonate-tourmaline-chlorite veins (presumably related to the above large vein). 1% blebby pyrite in host rock.														
145.0	146.0					145.0	146.0	1	0.005	2.5	0.25	27	92	B0047866
146.0	147.0					146.0	147.0	1	0.0025	2.5	0.25	8	81	B0047868
145.06-194.13 m: This section is affected by moderate pervasive silica alteration and weak chlorite alteration. Carbonate is seen to infill occasional patches of vugs in this section. There are some 1-3 cm thick quartz-carbonate-chlorite veins. A 9 cm thick quartz-carbonate-tourmaline vein is observed at 173.45-173.54. 2% pyrite is seen to infill hairline fractures and another 3% pyrite is seen as blebs. There is a patch of brecciation of the host rock will silica and carbonate infilling the fractures.														
147.0	148.0					147.0	148.0	1	0.0025	2.5	0.25	8	85	B0047869
148.0	148.5					148.0	148.5	0.5	0.0025	2.5	0.25	24	114	B0047870
148.5	149.0					148.5	149.0	0.5	0.006	2.5	0.25	22	96	B0047871
194.13-197.76 m: This section is a patch of strong pervasive silica and sericite alteration, with strong patchy magnetite crystals disseminated throughout section. 0.5% disseminated pyrite.														
157.9	158.4					157.9	158.4	0.5	0.075	2.5	0.25	16	70	B0047872
158.4	159.0					158.4	159.0	0.6	0.159	2.5	0.25	23	86	B0047873
197.76-206.3 m: This section is affected by moderate pervasive silica alteration and weak chlorite alteration. Carbonate is seen to infill occasional patches of vugs in this section. There are some 0.1-0.5 cm thick quartz-carbonate-chlorite stringer veins. 1% disseminate pyrite, with mineralization proximal to stringer veins. Weak foliation (weak deformation).														
159.0	160.0					159.0	160.0	1	0.158	2.5	0.25	8	61	B0047874
160.0	161.0					160.0	161.0	1	0.0025	2.5	0.25	7	65	B0047875
206.3-210.21 m: Same alteration as before, but an increase to stronger silica alteration and stronger chlorite. More discontinuous stringer veins. 0.5 cm blebby pyrite. High magnetite content. 1% disseminate pyrite, 0.5% blebby pyrite.														
161.0	162.0					161.0	162.0	1	0.073	2.5	0.25	11	57	B0047876
162.0	163.0					162.0	163.0	1	0.043	2.5	0.25	12	82	B0047877
210.21-211.44 m: Silica decreases to weak and chlorite stays at strong. Everything else same as previous section.														
163.0	164.0					163.0	164.0	1	0.037	2.5	0.25	21	70	B0047878
164.0	165.0					164.0	165.0	1	0.0025	2.5	0.25	15	95	B0047879
211.44-242.22 m: Moderate pervasive silica, weak patchy carbonate, subtle pervasive chlorite alteration. 0.1-0.5 cm thick quartz-carbonate stringer veins, some discontinuous, some continuous, stringer observed to cross-cut each other. Overall, 0.5% disseminated pyrite, but from 211.44-217.16 m there is 2% blebby pyrite.														
165.0	166.0					165.0	166.0	1	1.54	2.5	0.25	20	105	B0047881
166.0	167.0					166.0	167.0	1	0.04	2.5	0.25	18	181	B0047882
242.22-256.13 m: Strong pervasive silica, moderate pervasive sericite, and weak pervasive chlorite. 0.5% hairline fracture-fill pyrite.														
167.0	168.0					167.0	168.0	1	0.007	2.5	0.25	8	87	B0047883
256.13-257.63 m: There is an intense deformation zone, with intense pervasive silica with strong pervasive sericite along shears/foliation planes. 4% pyrite along shear planes. Interval displays 3 quartz-carbonate-pyrite veins (3-10 cm thickness).														
170.0	171.0					170.0	171.0	1	0.005	2.5	0.25	65	159	B0047884
171.0	172.0					171.0	172.0	1	0.0025	2.5	0.25	18	82	B0047885
257.63-277.14 m: Weakly foliated, weak pervasive sericite, weak-moderate pervasive silica, and subtle patchy carbonate. 0.5% disseminated pyrite, trace disseminate pyrrhotite. Sparse 0.1-0.5 cm thick quartz-carbonate (with trace pyrite and pyrrhotite vein-fill) stringer veins. Occasional 2-5 cm thick vertical quartz-carbonate-chlorite veins.														
172.0	173.0					172.0	173.0	1	0.0025	2.5	0.25	20	95	B0047886
173.0	174.0					173.0	174.0	1	0.0025	2.5	0.25	56	124	B0047887
174.0	175.0					174.0	175.0	1	0.0025	2.5	0.25	18	68	B0047888
277.14-293.64 m: Moderate pervasive silica, subtle pervasive sericite, and weak patchy carbonate and biotite. There is increasing sericite from 284.5-286 m and 288.63-289 m where there is additional shearing. Sparse 0.1-0.5 cm thick quartz-carbonate (with trace pyrite and pyrrhotite vein-fill) stringer veins. 0.5% vein-fill pyrite and pyrrhotite.														
175.0	176.0					175.0	176.0	1	0.0025	2.5	0.25	61	161	B0047889
176.0	177.0					176.0	177.0	1	0.0025	2.5	0.25	9	65	B0047890
177.0	178.0					177.0	178.0	1	0.0025	2.5	0.25	6	94	B0047891
293.64-300 m: Moderate patchy carbonate, weak pervasive silica, and weak patchy chlorite. 0.1% disseminated pyrite.														
178.0	179.0					178.0	179.0	1	0.0025	2.5	0.25	8	65	B0047892
144.36 - 144.75 : Quartz Vein, 5 cm thick quartz-carbonate-chlorite-pyrite vein within an intense silica alteration halo. 2% vein-fill pyrite.														
179.0	180.0					179.0	180.0	1	0.0025	2.5	0.25	7	88	B0047894
180.0	181.0					180.0	181.0	1	0.0025	2.5	0.25	3	95	B0047895

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	181.0					181.0	182.0	1	0.0025	2.5	0.25	3	62	B0047896
	182.0					182.0	183.0	1	0.0025	2.5	0.25	3	83	B0047897
	183.0					183.0	184.0	1	0.0025	2.5	0.25	1	82	B0047898
	184.0					184.0	185.0	1	0.0025	2.5	0.25	3	122	B0047899
	185.0					185.0	186.0	1	0.0025	2.5	0.25	3	136	B0047900
	186.0					186.0	187.0	1	0.0025	2.5	0.25	5	151	B0047902
	187.0					187.0	188.0	1	0.0025	2.5	0.25	4	155	B0047903
	188.0					188.0	189.0	1	0.0025	2.5	0.25	16	118	B0047904
	189.0					189.0	190.0	1	0.0025	2.5	0.25	58	202	B0047905
	190.0					190.0	191.0	1	0.0025	2.5	0.25	22	169	B0047906
	191.0					191.0	192.0	1	0.0025	2.5	0.25	33	100	B0047907
	192.0					192.0	193.0	1	0.0025	2.5	0.25	6	50	B0047908
	193.0					193.0	194.0	1	0.0025	2.5	0.25	32	72	B0047910
	194.0					194.0	195.0	1	0.0025	2.5	0.25	14	65	B0047911
	195.0					195.0	196.0	1	0.0025	2.5	0.25	10	24	B0047912
	196.0					196.0	197.0	1	0.0025	2.5	0.25	18	50	B0047913
	197.0					197.0	198.0	1	0.0025	2.5	0.25	13	46	B0047914
	198.0					198.0	199.0	1	0.0025	2.5	0.25	55	121	B0047915
	199.0					199.0	200.0	1	0.0025	2.5	0.25	52	105	B0047916
	200.0					200.0	201.0	1	0.0025	2.5	0.25	21	94	B0047917
	201.0					201.0	202.0	1	0.0025	2.5	0.25	40	115	B0047918
	202.0					202.0	203.0	1	0.0025	2.5	0.25	50	121	B0047919
	203.0					203.0	204.0	1	0.0025	2.5	0.25	48	106	B0047920
	204.0					204.0	205.0	1	0.017	2.5	0.25	50	101	B0047921
	205.0					205.0	206.0	1	0.371	5	0.25	54	121	B0047922
	206.0					206.0	207.0	1	0.007	2.5	0.25	10	42	B0047924
	207.0					207.0	208.0	1	0.011	2.5	0.25	20	57	B0047925
	208.0					208.0	208.94	0.94	0.0025	6	0.25	55	90	B0047926
	208.94					208.94	210.21	1.27	0.0025	2.5	0.25	44	69	B0047927
	210.21					210.21	211.44	1.23	0.045	5	0.25	63	116	B0047928
	211.44					211.44	212.0	0.56	0.268	7	0.25	141	69	B0047929

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	212.0	213.0	1	0.043	2.5	0.25	51	27	B0047930					
	213.0	214.0	1	0.034	2.5	0.25	8	41	B0047931					
	214.0	215.0	1	0.302	2.5	0.25	2	64	B0047932					
	215.0	216.0	1	0.006	2.5	0.25	56	101	B0047933					
	216.0	217.0	1	0.015	2.5	0.25	131	113	B0047934					
	217.0	218.0	1	0.008	2.5	0.25	56	104	B0047935					
	218.0	219.0	1	0.0025	2.5	0.25	53	92	B0047936					
	219.0	220.0	1	0.005	5	0.25	46	73	B0047938					
	225.0	226.0	1	0.0025	2.5	0.25	27	97	B0047939					
	226.0	227.0	1	0.0025	2.5	0.25	24	98	B0047940					
	227.0	228.0	1	0.0025	2.5	0.25	51	121	B0047941					
	228.0	229.0	1	0.0025	2.5	0.25	40	93	B0047942					
	229.0	230.0	1	0.0025	2.5	0.25	37	111	B0047943					
	230.0	231.0	1	0.0025	2.5	0.25	40	114	B0047944					
	231.0	232.0	1	0.0025	2.5	0.25	50	98	B0047945					
	232.0	233.0	1	0.0025	2.5	0.25	35	102	B0047946					
	233.0	234.0	1	0.0025	2.5	0.25	50	103	B0047947					
	234.0	235.0	1	0.0025	2.5	0.25	48	103	B0047948					
	235.0	236.0	1	0.0025	2.5	0.25	26	104	B0047949					
	236.0	237.0	1	0.0025	2.5	0.25	78	94	B0047950					
	237.0	238.0	1	0.0025	5	0.5	54	96	B0047952					
	238.0	239.0	1	0.0025	2.5	0.25	49	88	B0047953					
	239.0	240.0	1	0.0025	2.5	0.25	55	96	B0047954					
	240.0	241.0	1	0.0025	2.5	0.25	53	101	B0047955					
	241.0	242.22	1.22	0.0025	2.5	0.25	57	128	B0047956					
	242.22	243.0	0.78	0.0025	2.5	0.25	2	21	B0047957					
	243.0	244.0	1	0.0025	2.5	0.25	0.5	24	B0047958					
	244.0	245.0	1	0.0025	2.5	0.25	2	28	B0047959					
	245.0	246.0	1	0.0025	2.5	0.25	1	27	B0047960					
	246.0	247.0	1	0.0025	2.5	0.25	0.5	24	B0047961					
	247.0	248.0	1	0.0025	2.5	0.25	0.5	41	B0047962					

Project: Van Horne

Hole Number: VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	248.0					249.0	249.0	1	0.0025	2.5	0.25	2	36	B0047963
	249.0					250.0	250.0	1	0.005	2.5	0.25	4	57	B0047964
	250.0					251.0	251.0	1	0.0025	2.5	0.25	1	39	B0047966
	251.0					252.0	252.0	1	0.0025	2.5	0.25	0.5	38	B0047967
	252.0					253.0	253.0	1	0.0025	2.5	0.25	2	47	B0047968
	253.0					254.0	254.0	1	0.0025	2.5	0.25	2	33	B0047969
	254.0					255.0	255.0	1	0.0025	2.5	0.25	3	32	B0047970
	255.0					256.0	256.0	1	3.66	2.5	0.25	8	29	B0047971
	256.0					257.0	257.0	1	0.105	2.5	0.25	24	104	B0047972
	257.0					257.63	257.63	0.63	0.068	2.5	0.25	44	534	B0047973
	257.63					259.0	259.0	1.37	0.0025	2.5	0.25	5	105	B0047974
	259.0					260.0	260.0	1	0.005	2.5	0.25	5	80	B0047975
	260.0					261.0	261.0	1	0.0025	2.5	0.25	17	71	B0047976
	261.0					262.0	262.0	1	0.0025	2.5	0.25	5	62	B0047977
	262.0					263.0	263.0	1	0.0025	2.5	0.25	9	48	B0047978
	263.0					264.0	264.0	1	0.0025	2.5	0.5	9	83	B0047980
	264.0					265.0	265.0	1	0.0025	2.5	0.5	9	39	B0047981
	265.0					266.0	266.0	1	0.0025	2.5	0.6	12	40	B0047982
	266.0					267.0	267.0	1	0.0025	2.5	0.25	9	54	B0047983
	267.0					268.0	268.0	1	0.0025	2.5	0.5	22	113	B0047984
	268.0					269.0	269.0	1	0.0025	2.5	0.25	30	113	B0047985
	276.0					277.0	277.0	1	0.0025	2.5	0.25	28	90	B0047986
	277.0					278.0	278.0	1	0.0025	2.5	0.5	26	48	B0047988
	278.0					279.0	279.0	1	0.0025	2.5	0.25	4	42	B0047989
	279.0					280.0	280.0	1	0.0025	2.5	0.8	3	47	B0047990
	280.0					280.97	280.97	0.97	0.0025	2.5	0.5	14	79	B0047991
	280.97					282.0	282.0	1.03	0.0025	2.5	0.25	6	47	B0047992
	282.0					283.0	283.0	1	0.0025	2.5	0.25	5	45	B0047993
	283.0					284.0	284.0	1	0.0025	2.5	0.25	7	38	B0047994
	284.0					285.0	285.0	1	0.0025	2.5	0.25	11	31	B0047995
	285.0					286.0	286.0	1	0.0025	2.5	0.25	21	77	B0047996

DRILL LOG REPORT

Project: Van Horne **Hole Number:** VH20-009

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	286.0					287.0	287.0	1	0.0025	2.5	0.25	2	36	B0047997
	287.0					288.0	288.0	1	0.0025	2.5	0.25	1	21	B0047998
	288.0					289.0	289.0	1	0.0025	2.5	0.25	2	30	B0047999
	289.0					290.0	290.0	1	0.0025	2.5	0.25	4	33	B0048000
	290.0					291.05	291.05	1.05	0.039	6	0.25	13	65	B0048002
	291.05					292.0	292.0	0.95	0.005	2.5	0.25	4	37	B0048003
	292.0					293.0	293.0	1	0.0025	2.5	0.25	10	30	B0048004
	293.0					294.0	294.0	1	0.0025	2.5	0.25	24	97	B0048005
	294.0					295.0	295.0	1	0.007	2.5	0.25	70	171	B0048006
	295.0					296.0	296.0	1	0.0025	2.5	0.25	62	142	B0048007

Project: Van Horne **Hole Number:** VH20-010

Drill Hole		Drilling		Coordinates			
Prospect:	VH-LOST-LEAGUE	Operator:	KGC EXPLORATION	Start Date:	Sep-01-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	THOMAS CLARK	End Date:	Sep-08-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,673
Orient:	ACT III	EOH:	570			Northing:	5,507,888
Hole Status:	COMPLETE	Logged Depth:	570			Elevation:	391

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	5.48	OB, OVERBURDEN												

Project: Van Horne							Hole Number: VH20-010							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
5.48	217.34	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	72.0	73.0	1	0.0025	2.5	0.25	15	72	B0048008
Intermediate volcanic unit, light grey - grey colour, fine grain size, moderate - strong deformation and massive texture with a slight foliation. Overall the unit trace disseminated pyrite.						73.0	74.0	1	0.0025	2.5	0.25	7	53	B0048009
From 5.48 - 10.05 IVCL like unit, strong deformation with a foliation present; trace disseminated pyrite is present within the unit. Unit shows moderate patchy ankerite, weak pervasive sericite, weak pervasive silica and weak pervasive carbonate. Few small shear fractures present with strong pervasive ankerite surrounding.						74.0	75.0	1	0.0025	2.5	0.25	48	247	B0048010
10.05 - 20.87 IV unit, mixture of medium and fine grained, weak deformation with a slight foliation, and grey-green in colour. Moderate patchy carbonate, moderate patchy chlorite and moderate pervasive silica alteration is present. The unit shows trace disseminated pyrite. 2 - 6 cm quartz - carb veins are present with 0.5% blebby pyrite within the vein margins.						75.0	76.0	1	0.0025	2.5	0.25	61	247	B0048011
20.87 - 26.4 , small IVCL unit with sub-rounded to elongate clasts, 0.5 - 1 cm in diameter. Unit shows strong deformation, grey-green-red in colour, and shows a fine grain size. Alteration includes strong pervasive ankerite, weak pervasive hematite, weak fracture-fill chlorite, and weak pervasive silica. The unit has 0.5% disseminated pyrite.						76.0	77.0	1	0.0025	2.5	0.25	50	107	B0048012
26.4 - 40.29 IV unit, strong deformation, massive texture, fine grain size, and grey-brown colour. The unit shows moderate pervasive ankerite, weak pervasive silica and weak pervasive carbonate alteration. The unit has multiple shear fractures showing moderate - strong ankerite alteration throughout the shear surfaces, along with shear material being present throughout this section. Overall the unit shows 0.5% disseminated pyrite. The unit has few veins, most are rubble and show null sulphides.						77.0	78.0	1	0.0025	2.5	0.25	18	62	B0048013
40.29 - 81.04m IV unit, massive, weak deformation, grey colour and fine grain size. Unit shows weak patchy carbonate, weak pervasive silica and subtle fracture-fill chlorite (more around veins). Overall the unit has 0.5% blebby pyrite. Unit shows few qtz-carb veins and qtz-carb stringers, most showing trace blebby pyrite within the margins. From 73.6 - 75.89 there is an increase in silica alteration, small string veins are present and one large qtz-carb vein is present showing trace sulphides.						88.0	89.0	1	0.0025	2.5	0.25	18	62	B0048013
81.04 - 90 m, IV unit, similar to previous unit but showing moderate patchy silica, and moderate pervasive silica alteration. Deformation increase from weak to moderate. Small qtz-carb stringer veins are present, overall the unit shows trace disseminated pyrite.						89.0	90.0	1	0.0025	2.5	0.25	39	90	B0048015
90 - 102.76 m IV unit, showing moderate - strong deformation, slight foliation, fine grain size, and light grey colour. The unit shows strong pervasive silica, weak patchy carbonate and weak pervasive sericite alteration (weak fracture-fill chlorite within qtz-carb margins). Quartz veins at 91.97- 92.07, 94.58 - 94.68 and 100.56 - 100.62 show qtz-carb-seric-chlor and trace - 0.5% blebby pyrite. Overall the unit shows trace disseminated pyrite. Deformation increases proximal to quartz veins. Qtz-carb blowout and small 0.1 cm qtz-carb stringers are present throughout the unit, but show null to trace vein-fill pyrite.						90.0	91.0	1	0.0025	2.5	0.25	20	78	B0048016
102.76 - 115.95 IV unit, weak deformation, dark grey colour, massive texture. and fine grain size. Overall the unit shows subtle pervasive silica, subtle patchy carbonate, along with weak pervasive carbonate within the few quartz-carb veins that are present. Overall the unit shows null sulphides.						91.0	91.97	0.97	0.0025	2.5	0.25	15	84	B0048017
115.95 - 121.72 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						91.97	93.0	1.03	0.0025	2.5	0.25	20	93	B0048018
121.72 - 145.88 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						93.0	94.0	1	0.0025	2.5	0.25	22	91	B0048019
145.88 - 150.13 IV unit, weak deformation, massive texture, light grey colour. Unit has one relict vein from 146.63 - 147 m, showing null sulphides, moderate pervasive silica and weak pervasive carbonate. Unit shows strong pervasive silica, weak patchy carbonate and weak pervasive sericite. Overall the unit shows trace disseminated pyrite.						94.0	95.0	1	0.0025	2.5	0.25	14	83	B0048020
150.13 - 168 m, IV unit, weak deformation, light grey colour, fine grain size. This unit has moderate pervasive						95.0	96.0	1	0.0025	2.5	0.25	7	97	B0048021
168 m - 182.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						96.0	97.0	1	0.0025	2.5	0.25	24	108	B0048022
182.00 - 196.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						97.0	98.0	1	0.0025	2.5	0.25	42	57	B0048023
196.00 - 210.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						98.0	99.0	1	0.0025	2.5	0.25	24	82	B0048024
210.00 - 224.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						99.0	100.0	1	0.0025	2.5	0.25	35	84	B0048025
224.00 - 238.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						100.0	101.0	1	0.0025	2.5	0.25	25	88	B0048026
238.00 - 252.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						101.0	102.0	1	0.0025	2.5	0.25	65	161	B0048028
252.00 - 266.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						102.0	103.0	1	0.0025	2.5	0.25	41	83	B0048029
266.00 - 280.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						102.0	103.0	1	0.0025	2.5	0.25	41	83	B0048029
280.00 - 294.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						115.0	115.95	0.95	0.0025	2.5	0.25	24	60	B0048030
294.00 - 308.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						115.95	117.0	1.05	0.0025	2.5	0.25	25	113	B0048031
308.00 - 322.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						117.0	118.0	1	0.0025	2.5	0.25	2	58	B0048032
322.00 - 336.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						118.0	119.0	1	0.0025	2.5	0.25	18	106	B0048033
336.00 - 350.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						119.0	120.0	1	0.0025	2.5	0.25	3	82	B0048034
350.00 - 364.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						120.0	121.0	1	0.0025	2.5	0.25	12	70	B0048035
364.00 - 378.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						121.0	122.0	1	0.0025	2.5	0.25	15	54	B0048036
378.00 - 392.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						122.0	123.0	1	0.006	5	0.25	38	108	B0048037
392.00 - 406.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						123.0	124.0	1	0.289	2.5	0.25	32	97	B0048038
406.00 - 420.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						124.0	125.0	1	0.015	2.5	0.25	9	70	B0048039
420.00 - 434.00 IV unit, moderate - strong deformation, (10% massive texture, 90% breccia like texture), grey - dark grey colour. Unit shows moderate pervasive silica, weak pervasive sericite, moderate patchy carbonate and weak patchy chlorite. The unit shows few larger relict veins at 115.95 - 116.18 and 121.60 - 121.72. Small qtz-carb-tour-chlor vein set at 123.27 - 123.41 shows 1% fracture-fill pyrite and trace disseminated pyrite. Overall the unit shows trace disseminated pyrite. Small intense deformation zones surrounding the listed quartz veins, showing strong pervasive sericite and strong pervasive silica alteration.						125.0	126.0	1	0.0025	2.5	0.25	7	132	B0048041

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
silica, weak - moderate patchy carbonate and weak pervasive sericite. Overall this unit shows 2% disseminated pyrite and 1% blebby pyrite with small sections of 5-6% blebby pyrite and trace blebby pyrrhotite. Small qtz-carb stringers and few veins are present within the unit, showing weak patchy carbonate and trace vein-fill pyrite.						126.0	127.0	1	0.0025	2.5	0.25	9	60	B0048042
						127.0	128.0	1	0.0025	2.5	0.25	17	122	B0048043
168 - 217.34 m, IV unit, weak deformation, dark grey colour, fine grain size. Unit shows weak patchy carbonate, and subtle pervasive silica. Overall the unit shows 0.5% disseminated pyrite. The unit has several veins, 169.66 - 169.68, 170.88 - 170.90, 171.32 - 171.34, 175.75 - 175.93, 181.03 - 181.10, 193.85 - 194.03, 197.95 - 198.12 and 198.14 - 198.24 m. Smaller veins show trace disseminated pyrite and weak patchy carbonate, veins at 193.85 - 194.03, 197.95 - 198.12 and 198.14 - 198.24 m show 1% blebby pyrite, trace vein-fill pyrite, weak fracture-fill chlorite, patchy tourmaline and weak patchy carbonate.						128.0	129.0	1	0.0025	2.5	0.25	7	97	B0048044
						129.0	130.0	1	0.0025	2.5	0.25	13	90	B0048045
						130.0	131.0	1	0.0025	2.5	0.25	8	111	B0048046
Deformation and mineralization slightly increase before the contact at 217.34						131.0	132.0	1	0.0025	5	0.25	14	319	B0048047
						132.0	133.0	1	0.0025	2.5	0.25	15	102	B0048048
						133.0	134.0	1	0.0025	6	0.25	21	121	B0048049
						134.0	135.0	1	0.0025	2.5	0.25	14	109	B0048050
						135.0	136.0	1	0.0025	2.5	0.25	10	90	B0048051
						136.0	137.0	1	0.0025	2.5	0.25	8	105	B0048052
						137.0	138.0	1	0.0025	2.5	0.25	12	95	B0048053
						138.0	139.0	1	0.0025	2.5	0.25	30	100	B0048054
						139.0	140.0	1	0.0025	2.5	0.25	5	71	B0048055
						140.0	141.0	1	0.0025	2.5	0.25	15	157	B0048056
						141.0	142.0	1	0.0025	2.5	0.25	13	77	B0048057
						142.0	143.0	1	0.0025	9	0.25	18	52	B0048059
						143.0	144.0	1	0.0025	2.5	0.25	17	109	B0048060
						144.0	145.0	1	0.0025	2.5	0.25	23	273	B0048061
						145.0	146.0	1	0.0025	2.5	0.25	4	172	B0048062
						146.0	147.0	1	0.0025	2.5	0.25	5	75	B0048063
						147.0	148.0	1	0.0025	2.5	0.25	5	150	B0048064
						148.0	149.0	1	0.0025	2.5	0.5	8	82	B0048066
						149.0	150.0	1	0.0025	2.5	0.25	6	72	B0048067
						150.0	151.0	1	0.0025	2.5	0.25	8	153	B0048068
						151.0	152.0	1	0.0025	2.5	0.25	3	106	B0048069
						152.0	153.0	1	0.0025	2.5	0.25	9	120	B0048070
						153.0	154.0	1	0.0025	2.5	0.25	10	83	B0048071
						154.0	155.0	1	0.0025	2.5	0.25	6	83	B0048072
						155.0	156.0	1	0.0025	2.5	0.25	9	68	B0048073
						156.0	157.0	1	0.0025	2.5	0.25	13	85	B0048074

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	157.0	158.0	1	0.0025	2.5	0.25	9	106	B0048075					
	158.0	159.0	1	0.0025	2.5	0.25	5	97	B0048076					
	159.0	160.0	1	0.0025	2.5	0.25	4	102	B0048077					
	160.0	161.0	1	0.0025	2.5	0.25	8	86	B0048078					
	161.0	162.0	1	0.0025	2.5	0.25	6	74	B0048080					
	162.0	163.0	1	0.0025	2.5	0.25	15	84	B0048081					
	163.0	164.0	1	0.0025	2.5	0.25	9	118	B0048082					
	164.0	165.0	1	0.0025	2.5	0.25	7	78	B0048083					
	165.0	166.0	1	0.0025	2.5	0.25	8	89	B0048084					
	166.0	167.0	1	0.0025	2.5	0.25	8	150	B0048085					
	167.0	168.0	1	0.0025	7	0.6	16	105	B0048086					
	168.0	169.0	1	0.0025	2.5	0.25	38	84	B0048087					
	169.0	170.0	1	0.0025	2.5	0.25	5	102	B0048088					
	170.0	171.0	1	0.0025	2.5	0.25	14	92	B0048089					
	171.0	172.0	1	0.0025	2.5	0.25	16	150	B0048090					
	180.5	181.0	0.5	0.0025	2.5	0.25	19	66	B0048091					
	181.0	181.5	0.5	0.0025	2.5	0.25	15	84	B0048093					
	181.5	182.0	0.5	0.0025	2.5	0.25	19	83	B0048094					
	191.0	191.5	0.5	0.0025	2.5	0.25	44	86	B0048095					
	191.5	192.0	0.5	0.0025	2.5	0.25	16	104	B0048096					
	192.0	193.0	1	0.0025	2.5	0.25	12	71	B0048097					
	193.0	193.5	0.5	0.0025	2.5	0.5	37	121	B0048098					
	193.5	194.4	0.9	0.0025	2.5	0.25	5	69	B0048099					
	194.4	195.0	0.6	0.0025	2.5	0.5	17	69	B0048100					
	195.0	196.0	1	0.0025	2.5	0.25	11	71	B0048101					
	196.0	197.0	1	0.0025	2.5	0.25	10	91	B0048102					
	197.0	197.8	0.8	0.0025	2.5	0.25	3	73	B0048103					
	197.8	198.6	0.8	0.0025	2.5	0.25	3	51	B0048104					
	198.6	199.5	0.9	0.0025	2.5	0.25	59	104	B0048105					
	210.0	211.0	1	0.0025	2.5	0.25	12	87	B0048106					
	211.0	212.0	1	0.0025	7	0.25	17	72	B0048108					

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						212.0	213.0	1	0.0025	2.5	0.25	12	156	B0048109
						213.0	214.0	1	0.0025	2.5	0.25	5	89	B0048110
						214.0	215.0	1	0.0025	6	0.25	2	102	B0048111
						215.0	216.0	1	0.0025	2.5	0.25	5	89	B0048112
						216.0	217.3	1.3	0.0025	2.5	0.25	24	77	B0048113

217.34 231.51 IV, INTERMEDIATE VOLCANIC MASSIVE MEDIUM GREEN-GREY

Intermediate volcanic, alteration halo, similar alteration halos in hole 6.

Intermediate volcanic unit, medium grain size, green-grey colour, moderate deformation, massive texture. Unit has strong pervasive chlorite, moderate patchy carbonate and moderate patchy silica alteration.

Unit has several discontinuous stringer veins and qtz-carb veins throughout, all showing weak patchy carbonate and trace vein-fill pyrite, 10% of veins show 0.5% disseminated pyrite within the surrounding host rock.

Overall the unit has 0.5 % disseminated pyrite.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
231.51	264	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	234.0	235.0	1	0.0025	2.5	0.25	45	95	B0048114
Intermediate volcanics, similar to the unit from 162 m - 217.34m. Massive texture, fine grain size, weak deformation and grey in colour. Unit shows weak patchy carbonate, weak pervasive silica and subtle pervasive sericite alteration, small patches of strong deformation are present near qtz-carb veins. From 252 to 257 m, the unit displays slightly increased grain size, to medium, and an increase to moderate pervasive silica. From 257.53 - 259.66 m, an injection of fluid causing iron carbonate staining and silica bleaching is present, within this area there is 3% fracture-fill pyrite and 2% disseminated pyrite. Small areas between 238 - 240 m show 3% fracture-fill pyrite and 1% disseminated pyrite.														
The unit has sparse qtz-carb stringer veins and few large discontinuous qtz-carb veins. Overall the unit shows 1% disseminated pyrite and 1% fracture-fill pyrite.														
						235.0	236.0	1	0.0025	2.5	0.25	64	109	B0048115
						236.0	237.0	1	0.0025	2.5	0.25	31	61	B0048116
						237.0	238.0	1	0.0025	2.5	0.25	66	114	B0048117
						238.0	239.0	1	0.0025	2.5	0.25	37	79	B0048118
						239.0	240.0	1	0.0025	2.5	0.25	53	164	B0048119
						240.0	241.0	1	0.0025	2.5	0.25	56	147	B0048120
						241.0	242.0	1	0.0025	2.5	0.25	35	72	B0048122
						242.0	243.0	1	0.0025	2.5	0.25	20	89	B0048123
						243.0	244.0	1	0.0025	2.5	0.25	20	64	B0048124
						244.0	245.0	1	0.0025	2.5	0.25	18	60	B0048125
						245.0	246.0	1	0.0025	2.5	0.5	39	59	B0048126
						246.0	247.0	1	0.0025	2.5	0.25	27	48	B0048127
						256.0	257.0	1	0.0025	2.5	0.25	34	90	B0048128
						257.0	258.0	1	0.0025	2.5	0.25	89	73	B0048129
						258.0	259.0	1	0.0025	5	0.25	36	53	B0048130
						259.0	260.0	1	0.0025	5	0.25	38	56	B0048131
						260.0	261.0	1	0.0025	2.5	0.25	28	67	B0048132
						261.0	262.0	1	0.0025	2.5	0.25	37	60	B0048133
						262.0	263.0	1	0.0025	23	0.25	30	57	B0048134
						263.0	264.0	1	0.0025	2.5	0.25	23	55	B0048136

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Hole Number: VH20-010

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
264	384.5	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY	264.0	265.0	1	0.0025	2.5	0.25	19	61	B0048137
Intermediate volcanic unit, Low mineralization unit.														
IV unit, from 264 - 289.29, moderate deformation, light grey colour, fine grain size and massive texture. Unit has several discontinuous and irregular carb-qtz and qtz-carb veins, showing null - trace disseminated pyrite. Unit shows moderate pervasive silica, weak patchy carbonate and weak pervasive carbonate. From 277 - 282, large amounts of rubble are present due to the core being brittle from silica alteration. Overall this unit shows trace disseminated pyrite. From 285 - 289.29 m, as slight brecciated texture is present with increasing proximity to the potential intrusion.						268.0	269.0	1	0.0025	2.5	0.25	17	34	B0048138
						269.0	270.0	1	0.0025	2.5	0.25	13	31	B0048139
						270.0	271.0	1	0.0025	2.5	0.25	5	21	B0048140
						271.0	272.0	1	0.0025	2.5	0.25	3	28	B0048141
						272.0	273.0	1	0.0025	2.5	0.25	6	23	B0048142
289.29 - 289.95 m, a small intermediate volcanic intrusion is present, subtle deformation, grey colour, very fine grain and massive texture. The intrusion shows no mineralization and subtle pervasive silica alteration.						273.0	274.0	1	0.0025	2.5	0.25	60	103	B0048144
From 289.95 - 321.84, similar IV unit from 264 - 289.29, massive texture, moderate deformation, light grey colour, fine grain size. The unit shows weak patchy carbonate, moderate pervasive silica, weak pervasive carbonate and subtle patchy chlorite. The unit shows trace disseminated pyrite throughout, with small patches of 1% disseminated pyrite. The unit has many discontinuous and irregular qtz-carb / carb-qtz stringer veins showing null sulphides and few large irregular veins with null - trace vein-fill pyrite.						320.5	321.0	0.5	0.0025	2.5	0.25	37	108	B0048145
						321.0	321.5	0.5	0.0025	2.5	0.25	10	107	B0048146
						321.5	322.0	0.5	0.0025	2.5	0.25	1	86	B0048147
						322.0	323.0	1	0.0025	2.5	0.25	3	26	B0048148
321.84 - 333.59, IV unit, fine-medium grain size, massive texture, light grey colour and weak deformation. Unit shows moderate - strong pervasive silica alteration, weak - moderate patchy carbonate and subtle patchy chlorite alteration. Small qtz-carb stringers are present, most show null sulphides. Overall the unit shows trace disseminated pyrite. Possibly called a QFP in previous holes, although colour / grain size would suggest an IV unit.						323.0	324.0	1	0.0025	2.5	0.25	1	27	B0048149
						324.0	325.0	1	0.0025	2.5	0.25	1	28	B0048150
333.59 - 365.38 IV unit, moderate deformation, fine grain size, grey colour. Unit shows moderate pervasive silica, moderate pervasive carbonate and weak pervasive sericite alteration. Overall the unit shows 0.5% disseminated pyrite, with 1-2% blebby pyrite seen within qtz-carb vein margins. Unit shows qtz-carb-chlor veins at 348.21 - 348.32. 354.69 - 354.87 and 377.7 - 378.03 m. Veins show 1% blebby pyrite and 1% vein-fill pyrite. 365.38 - 368.44 m, IV unit, moderate deformation, fine grain size, light grey colour, Unit is similar to previous unit but showing strong pervasive silica, moderate pervasive carbonate and weak pervasive sericite alteration, also showing a weak foliation. Overall this unit shows 2% blebby pyrite and 0.5% disseminated pyrite. No major veins, small qtz-carb stringer veins are present. Previous unit continues to 384.50.						325.0	326.0	1	0.0025	2.5	0.25	1	28	B0048151
						326.0	327.0	1	0.0025	2.5	0.25	1	34	B0048152
						327.0	328.0	1	0.0025	2.5	0.25	1	32	B0048153
						328.0	329.0	1	0.0025	2.5	0.25	0.5	31	B0048154
						329.0	330.0	1	0.0025	2.5	0.25	1	45	B0048155
377.7 - 378.03 : Quartz Vein, Qtz-carb-chlor-tour, 0.5% blebby pyrite						347.5	348.0	0.5	0.0025	2.5	0.25	13	53	B0048156
						348.0	348.5	0.5	0.0025	2.5	0.25	21	80	B0048158
						348.5	349.0	0.5	0.0025	2.5	0.25	11	89	B0048159
						359.0	359.5	0.5	0.0025	2.5	0.25	12	76	B0048160
						359.5	360.0	0.5	0.0025	2.5	0.25	8	74	B0048161
						360.0	361.0	1	0.005	2.5	0.25	33	96	B0048162
						361.0	362.0	1	0.0025	2.5	0.25	16	43	B0048163
						362.0	363.0	1	0.0025	2.5	0.25	28	72	B0048164
						363.0	364.0	1	0.0025	5	0.25	28	67	B0048165
						364.0	365.0	1	0.0025	2.5	0.25	18	86	B0048166
						365.0	366.0	1	0.057	2.5	0.25	21	97	B0048167
						366.0	367.0	1	0.005	2.5	0.25	26	126	B0048168
						367.0	368.0	1	0.0025	2.5	0.25	28	108	B0048169

Project: Van Horne

Hole Number: VH20-010

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						368.0	369.0	1	0.006	2.5	0.25	25	61	B0048170
						369.0	370.0	1	0.0025	2.5	0.25	13	66	B0048172
						370.0	371.0	1	0.0025	5	0.25	28	136	B0048173
						371.0	372.0	1	0.0025	2.5	0.25	22	101	B0048174
						372.0	373.0	1	0.0025	2.5	0.25	30	97	B0048175
						373.0	374.0	1	0.0025	2.5	0.25	34	105	B0048176
						374.0	375.0	1	0.0025	2.5	0.25	32	94	B0048177
						375.0	376.0	1	0.0025	2.5	0.25	21	92	B0048178
						376.0	377.0	1	0.0025	2.5	0.25	42	103	B0048179
						377.0	377.5	0.5	0.006	2.5	0.25	31	140	B0048180
						377.5	378.1	0.6	0.0025	2.5	0.25	23	51	B0048181
						378.1	379.0	0.9	0.0025	2.5	0.25	24	67	B0048182
						379.0	380.0	1	0.0025	2.5	0.25	8	82	B0048183
						380.0	381.0	1	0.091	2.5	0.25	12	86	B0048184
						381.0	382.0	1	0.0025	2.5	0.25	11	59	B0048186
						382.0	383.0	1	0.0025	2.5	0.25	8	47	B0048187
						383.0	383.7	0.7	0.0025	2.5	0.25	45	67	B0048188
						383.7	384.5	0.8	0.0025	2.5	0.25	30	64	B0048189
384.5	423.39	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	384.5	385.0	0.5	0.0025	2.5	0.25	43	88	B0048190
		Intermediate volcanoclastic unit, moderate deformation, fine grain size, light grey - grey colour and foliated texture. Unit shows 0.5 - 2 cm clasts, sub-rounded and elongated along a foliation. The unit shows moderate patchy carbonate, moderate pervasive silica and weak fracture-fill chlorite, with small increased patches of pervasive chlorite alteration infrequently appearing within this section. Overall this unit shows trace disseminated pyrite.				422.0	422.8	0.8	0.006	2.5	0.25	24	76	B0048191
						422.8	423.45	0.65	0.503	8	0.25	6	47	B0048192
		From 423.07 - 423.39 m, a small vein set is present, showing strong pervasive silica, moderate pervasive sericite, weak fracture-fill carbonate and weak fracture-fill chlorite. This vein set also shows 3% blebby pyrite, 1% vein-fill pyrite and 1% blebby chalcopyrite.												
		423.07 - 423.39 : Quartz Vein, qtz-carb-chlor vein, 2% blebby pyrite, 1% vein-fill and 0.5% blebby chalcopyrite.												

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Hole Number: VH20-010

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
423.39	455.38	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	422.8	423.45	0.65	0.503	8	0.25	6	47	B0048192
IV unit, weak alteration, moderate deformation, fine grain size, dark grey colour, massive texture. Unit shows weak pervasive silica and weak patchy carbonate; from 438 - 441 and 451.15 - 452.51 m, small alteration zones of strong pervasive silica and weak pervasive sericite are present. Within these alteration zones, 2% fracture-fill pyrite and 0.5% disseminated pyrite is present; also present are numerous healed qtz-carb veins. Within the entire unit, 0.5% disseminated pyrite is present.														
						423.45	424.0	0.55	0.045	2.5	0.25	8	81	B0048193
						424.0	425.0	1	0.0025	2.5	0.25	4	92	B0048194
						433.0	434.0	1	0.065	2.5	0.25	6	70	B0048195
Sparse 0.1 - 0.5 cm stringers are present, trace vein-fill pyrite. 434.58 - 434.75 vein set showing 2% fracture-fill pyrite and 0.5% blebby pyrite; weak fracture-fill chlorite, moderate pervasive silica and weak pervasive sericite. 444.85 - 444.97, 445.25 - 445.36 m show trace vein-fill pyrite and weak pervasive silica.														
						434.0	434.5	0.5	0.526	2.5	0.25	48	84	B0048196
						434.5	435.2	0.7	0.0025	2.5	0.25	25	84	B0048197
						435.2	436.0	0.8	0.0025	2.5	0.25	8	82	B0048198
						436.0	437.0	1	0.0025	2.5	0.25	5	80	B0048200
						437.0	438.0	1	0.0025	2.5	0.25	5	81	B0048201
						438.0	439.0	1	0.0025	2.5	0.25	6	73	B0048202
						439.0	440.0	1	0.0025	2.5	0.25	6	95	B0048203
						440.0	441.0	1	0.093	2.5	0.25	9	77	B0048204
						441.0	442.0	1	0.0025	2.5	0.25	9	88	B0048205
						442.0	443.0	1	0.0025	2.5	0.25	5	83	B0048206
						443.0	444.0	1	0.0025	2.5	0.25	8	97	B0048207
						444.0	444.6	0.6	0.0025	2.5	0.25	11	101	B0048208
						444.6	445.1	0.5	0.261	2.5	0.25	5	83	B0048209
						445.1	446.0	0.9	0.015	2.5	0.25	9	72	B0048210
						446.0	447.0	1	0.044	2.5	0.25	16	76	B0048211
						447.0	448.0	1	0.005	2.5	0.25	25	85	B0048212
						448.0	449.0	1	0.012	2.5	0.25	6	76	B0048214
						449.0	450.0	1	0.0025	2.5	0.25	8	77	B0048215
						450.0	450.8	0.8	0.094	2.5	0.25	9	86	B0048216
						450.8	451.3	0.5	0.056	2.5	0.25	12	92	B0048217
						451.3	452.0	0.7	0.0025	2.5	0.25	8	64	B0048218
						452.0	453.0	1	0.007	2.5	0.25	13	88	B0048219
						453.0	454.0	1	0.01	2.5	0.25	12	70	B0048220

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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455.38	466.27	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY									
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IVCL unit, moderate deformation, fine grain size, foliated texture and green grey colour. Unit shows elongated clasts, 0.5 - 1 cm in diameter, with small areas of massive textured volcanics. Unit shows moderate pervasive silica, moderate pervasive carbonate and weak pervasive chlorite alteration (chlorite mainly along clasts margins). Overall unit shows 0.5% fracture-fill pyrite and trace disseminated pyrite.

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
466.27	515.3	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	475.0	476.0	1	0.0025	2.5	0.7	10	161	B0048222
IV unit, 466.27 - 494.22 weak deformation, fine grain size, dark grey colour. Unit shows weak pervasive silica and moderate pervasive carbonate. Veins from 467.94 - 468 and 468.40 - 468.58 show moderate pervasive epidote, weak patchy carbonate and weak pervasive silica alteration. Unit has several cross cutting qtz-carb stringer veins and few larger qtz-carb-chlor veins; most show trace - 0.5% vein-fill pyrite with 0.5% disseminated pyrite within their margins. Overall the unit shows 0.5% fracture-fill pyrite and trace disseminated pyrite.														
From 483 - 486, mineralization increases to 0.5% blebby chalcopyrite and 2% disseminated pyrite. Vein at 479.84 - 479.88 m show 4% blebby chalcopyrite and 1% blebby pyrite, weak patchy carbonate and 1% disseminated pyrite within the vein margins.														
494.22 - 499.47 same IV unit as previous, but lighter grey and moderate - strong pervasive silica and moderate pervasive carbonate alteration. Overall the unit shows 2% disseminated pyrite and trace disseminated chalcopyrite. From 494.22 - 494.6 m and 499.19 - 499.47 m two veins are present showing moderate fracture-fill tourmaline, 2% blebby pyrite, 1% blebby pyrrhotite and 0.5% fracture-fill pyrite.														
499.47 - 515.3 Same unit as 466.27 - 494.22. Overall unit shows 1% disseminated pyrite, from 501 - 504 3% disseminated pyrite is present. Unit shows moderate pervasive carbonate and weak pervasive silica. Small amounts of clasts are present until a shift into a small IVCL unit from 515.3 - 524.59 m. 505.02 - 505.17 m vein, moderate patchy carbonate, weak fracture-fill tourmaline and weak fracture-fill chlorite. Vein shows 1% blebby pyrite and 1% blebby pyrrhotite.														
494.22 - 494.6 : Quartz Vein, Qtz-carb-tour-chlor vein, 2% blebby pyrite, 1% blebby pyrrhotite and 0.5% fracture-fill pyrite														
						480.0	481.0	1	0.0025	2.5	0.25	9	85	B0048227
						481.0	482.0	1	0.028	2.5	0.25	12	96	B0048228
						482.0	482.6	0.6	0.082	2.5	0.5	66	151	B0048229
						482.6	483.1	0.5	0.096	2.5	0.25	22	90	B0048230
						483.1	484.0	0.9	0.35	2.5	0.5	9	71	B0048231
						484.0	485.0	1	0.137	2.5	0.25	4	75	B0048232
						485.0	486.0	1	0.0025	2.5	0.25	7	84	B0048233
						486.0	487.0	1	0.073	2.5	0.25	6	86	B0048234
						487.0	488.0	1	0.023	9	0.25	6	82	B0048236
						488.0	489.0	1	0.0025	2.5	0.25	5	83	B0048237
						489.0	490.0	1	0.0025	2.5	0.25	6	52	B0048238
						490.0	491.0	1	0.0025	2.5	0.25	26	77	B0048239
						491.0	492.0	1	0.0025	2.5	0.25	29	82	B0048240
						492.0	493.0	1	0.0025	2.5	0.25	9	57	B0048241
						493.0	494.0	1	0.008	2.5	0.25	4	69	B0048242
						494.0	494.7	0.7	3.9	8	0.9	11	29	B0048243
						494.7	496.0	1.3	0.021	2.5	0.25	47	98	B0048244
						496.0	497.0	1	0.005	2.5	0.5	43	112	B0048245
						497.0	498.0	1	0.005	2.5	0.25	41	101	B0048246
						498.0	499.0	1	0.016	2.5	0.25	33	91	B0048247
						499.0	499.5	0.5	2.24	2.5	0.25	29	70	B0048249
						499.5	500.25	0.75	0.007	2.5	0.25	45	110	B0048250
						500.25	501.0	0.75	0.006	2.5	0.25	39	109	B0048251
						501.0	502.0	1	0.0025	2.5	0.25	51	104	B0048252
						502.0	503.0	1	0.0025	2.5	0.25	58	110	B0048253
						503.0	504.0	1	0.006	2.5	0.25	55	103	B0048254

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						504.0	504.9	0.9	0.006	2.5	0.25	41	108	B0048255
						504.9	505.4	0.5	0.0025	2.5	0.25	12	82	B0048256
						505.4	506.0	0.6	0.0025	2.5	0.25	17	123	B0048257
						506.0	507.0	1	0.0025	2.5	0.25	40	101	B0048258
						507.0	508.0	1	0.0025	2.5	0.25	43	80	B0048259
						508.0	509.0	1	0.0025	2.5	0.25	58	105	B0048260
						509.0	510.0	1	0.0025	2.5	0.25	35	96	B0048262
						510.0	511.0	1	0.0025	2.5	0.25	45	101	B0048263
						511.0	512.0	1	0.0025	2.5	0.25	53	111	B0048264
						512.0	513.0	1	0.0025	2.5	0.25	43	98	B0048265
						513.0	514.0	1	0.0025	2.5	0.25	45	83	B0048266
						514.0	515.0	1	0.0025	2.5	0.25	45	83	B0048267
						515.0	516.0	1	0.0025	2.5	0.25	65	95	B0048268
515.3	524.59	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	515.0	516.0	1	0.0025	2.5	0.25	65	95	B0048268
		IVCL unit, moderate deformation, fine grain, dark grey, foliated texture. Unit shows moderate fracture-fill silica, moderate pervasive carbonate and weak - moderate fracture-fill chlorite. The sections shows small sub-rounded to elongated clasts along with a slight breccia texture seen in previous holes. Overall the unit shows 3% disseminate pyrite, trace blebby pyrrhotite and 2% fracture-fill pyrite (mainly along the breccia texture).				516.0	517.0	1	0.0025	2.5	0.25	56	103	B0048269
						517.0	518.0	1	0.005	2.5	0.25	37	90	B0048270
						518.0	519.0	1	0.0025	2.5	0.25	35	113	B0048271
						519.0	520.0	1	0.012	2.5	0.25	48	101	B0048272
						520.0	521.0	1	0.0025	2.5	0.25	44	116	B0048273
						521.0	522.0	1	0.0025	2.5	0.25	44	117	B0048275
						522.0	523.0	1	0.0025	2.5	0.25	44	98	B0048276
						523.0	524.0	1	0.0025	2.5	0.25	67	117	B0048277
						524.0	525.0	1	0.0025	2.5	0.5	38	98	B0048278

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Hole Number: VH20-010

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
524.59	570	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	DARK GREY	524.0	525.0	1	0.0025	2.5	0.5	38	98	B0048278
IV unit, moderate deformation, fine grain size, massive texture, dark grey colour. Unit shows weak fracture-fill chlorite, moderate pervasive carbonate and weak patchy silica alteration. Unit shows small patches of brecciation with fracture-fill chlorite and trace fracture-fill pyrite. Overall the unit shows trace disseminated pyrite. Unit has many discontinuous qtz-carb veins and stringers, showing null to trace vein-fill pyrite and weak carbonate and weak sericite alteration. 565.11 -565.4 m shows a qtz-carb vein with 0.5% blebby pyrite and trace disseminated pyrite within the surrounding host rock.						525.0	526.0	1	0.0025	2.5	0.25	9	77	B0048279
						526.0	526.5	0.5	0.099	2.5	0.25	22	78	B0048280
						526.5	527.0	0.5	0.016	2.5	0.25	20	68	B0048281
						564.0	564.5	0.5	0.0025	2.5	0.25	31	129	B0048282
						564.5	565.0	0.5	0.0025	2.5	0.5	17	66	B0048283
						565.0	565.5	0.5	0.0025	2.5	0.25	2	47	B0048284
						565.5	566.0	0.5	0.0025	2.5	0.25	8	66	B0048285
						566.0	566.5	0.5	0.0025	2.5	0.25	54	124	B0048286

Project: Van Horne	Hole Number: VH20-011
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Drill Hole				Drilling		Coordinates							
Prospect: VH-LOST-LEAGUE	Operator: KGC EXPLORATION	Start Date: Sep-10-2020	Survey Method: HANDHELD GPS	Year: 2020	Geologist: PERCY CLARK	End Date: Sep-15-2020	Grid: NAD83 / UTM zone 15N	Hole Size: NQ	Casing Depth: 6	Drill Company: Major Drilling	Easting: 509,569	Northing: 5,507,900	Elevation: 381
Orient: ACT III	EOH: 498			Hole Status: COMPLETE	Logged Depth: 498								

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	8.1	OB, OVERBURDEN												

8.1	21.74	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	RED-BROWN									
Intermediate volcanoclastic, grey and red-brown in areas in increased ank, Medium grained predominate large relatively unaltered clasts (0.5-2cm width, volcanic intervals, clast size and deformation increase downhole, ank alteration strong near top of unit (pervasive). strong foliation throughout and alteration varies with areas of increased sil (moderate) and sections of strong ank alteration. alteration is more pronounced in the groundmass rather than in clasts														

21.74	30.42	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	LIGHT GREY									
intermediate volcanic, grey, fine grained, rare amygdals, sharp upper and lower contacts, 10 cm carb-qtz vein from 24.13-24.24m														

30.42	39.79	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	LIGHT GREY	30.42	31.0	0.58	0.0025	2.5	0.25	39	65	B0048287
intermediate volcanoclastic, light grey, grain size varies due to alteration and deformation, semi-pervasive carb alteration focusing along foliation occurring with weak sericite, sharp upper and lower contacts - sil alteration semi-pervasive occurring with potassic alteration presenting a red colour. 1% py blebs occurring in stronger altered areas increasing to 3% in rare narrow intervals.														
38.37-39.13 intermediate volcanic, grey, fine grained, sharp upper and lower contacts, possible intrusion														
						31.0	32.0	1	0.0025	2.5	0.25	70	103	B0048288
						32.0	33.0	1	0.0025	2.5	0.25	26	85	B0048289
						33.0	34.0	1	0.0025	2.5	0.25	17	102	B0048290
						34.0	35.0	1	0.0025	2.5	0.25	3	89	B0048291
						35.0	36.0	1	0.0025	10	0.25	5	92	B0048293
						36.0	37.0	1	0.0025	2.5	0.25	8	93	B0048294
						37.0	38.0	1	0.0025	5	0.25	5	68	B0048295
						38.0	39.0	1	0.0025	6	0.25	58	149	B0048296
						39.0	39.79	0.79	0.0025	2.5	0.25	27	71	B0048297

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
119.32	133.32	IV, INTERMEDIATE VOLCANIC	FOLIATED	FINE	LIGHT GREY	119.32	119.85	0.53	0.0025	2.5	0.25	8	46	B0048331
Intermediate Volcanic, Light grey, very fine grained to aphanitic, alteration grades along with deformation from moderate silca-ser into an intense suite of sil-ser-ank-carb alteration in zone of highest deformation. mineralization grades along with alt and def from 0.5% py to 5% py with 2% sph occurring in vein (124.62-124.86), upper- less altered portion of unit displays quartz veins ranging in size from 2 to 12 cms. Foliation is strong throughout defined by aligned ser-chl.						119.85	120.4	0.55	0.0025	2.5	0.25	4	30	B0048332
						120.4	121.0	0.6	0.0025	2.5	0.25	10	91	B0048333
						121.0	122.0	1	0.0025	2.5	0.25	51	47	B0048334
124.62-129.20: strongly altered-deformed interval- hosting one 22cm vein with smaller possible relic veins (possible clasts) occurring in interval. Lithology could be IVCL but alt-def muddle original texture. Interval displays 4% (1% frac fill 3 % bleb)- Possible League Trend-						122.0	123.0	1	0.0025	2.5	0.25	2	41	B0048335
						123.0	124.0	1	0.0025	2.5	0.25	6	34	B0048336
						124.0	124.62	0.62	0.009	2.5	0.25	6	73	B0048337
						124.62	125.15	0.53	1.68	2.5	0.9	26	2,400	B0048338
						125.15	126.0	0.85	0.007	2.5	0.25	8	595	B0048339
						126.0	127.0	1	0.0025	2.5	0.25	15	857	B0048340
						127.0	128.0	1	0.0025	13	0.25	15	243	B0048342
						128.0	129.2	1.2	0.0025	2.5	0.25	12	71	B0048343
						129.2	130.0	0.8	0.018	2.5	0.25	13	76	B0048344
						130.0	131.0	1	0.007	2.5	0.25	10	107	B0048345
						131.0	132.0	1	0.011	2.5	0.25	7	71	B0048346
						132.0	132.7	0.7	0.0025	2.5	0.25	2	51	B0048347
						132.7	133.32	0.62	0.012	2.5	0.25	44	88	B0048348
133.32	218.93	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	133.32	134.0	0.68	0.011	2.5	0.25	85	134	B0048349
intermediate volcanic, grey to light grey, very fine to fine grained, varying texture but predominately massive; displaying one deformed volcaniclastic interval, alteration is consistent with regional alt (weak pv chl, spotty weak carb, sublte ser spotty) with rare higher deformed intervals displaying increased sil-pot-ser alteration.						134.0	135.0	1	0.016	2.5	0.25	30	65	B0048350
133.32-142.63 increased silica alteration with mod pervasive carb alteration, grain size muddled						135.0	136.0	1	0.005	2.5	0.25	28	77	B0048351
						133.32-142.63	142.63	142.63	142.63	0.69	0.0025	2.5	0.25	22
142.63-147.07 moderate sericite alteration pervasive, weak sil alteration, light grey						142.63	147.07	0.76	0.0025	2.5	0.25	9	111	B0048353
162-166 mod sil- pv and carb -frac alteration with 1% py (diss, fracture fill)						162.0	166.0	1	0.0025	2.5	0.25	13	106	B0048354
182.23- 206.84 IV light grey, fine grained, increased sil alt, moderate density of 0.1-3cm wide qtz-carb veinlets at varying orientations occasionally displaying chl and low percentages of py. Ank-pot alteration grades in at 197.60 and is pervasive with moderate strength until the lower limit.						182.23	206.84	1	0.0025	2.5	0.25	21	92	B0048356
						217.0	218.0	1	0.0025	2.5	0.25	43	68	B0048357
						218.0	219.0	1	0.0025	2.5	0.25	67	46	B0048358
214.24-216.96 Intermediate Volcaniclastic, light grey, fine grained, strong foliation likely intensified by deformation, clasts roughly 1cm in width and strongly deformed, 2% py along foliation units upper and lower contacts are semi-sharp.														

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
218.93	242.9	IV, INTERMEDIATE VOLCANIC	VARITEXTURE D	MEDIUM	RED-BROWN	218.0	219.0	1	0.0025	2.5	0.25	67	46	B0048358
Intermediate Volcanic ("QFP"?) red-brown in colour , medium to fine grained, texture predominately massive, qtz-carb veins throughout some occurring in regular size and orientation and others are irregular and crosscutting. Chl alteration infilling fractures which gives the appearance of a very weak breccia texture. Unit is rubbled from 230.2-232.4m.						219.0	220.0	1	0.0025	2.5	0.25	7	33	B0048359
227.45-227.54m 7cm qtz-carb-py 3% py bleb						220.0	221.0	1	0.0025	2.5	0.25	7	35	B0048360
227.6-228.75 Irregular qtz-carb-chl-py-tor veining set 60% wallrock 40% veining, 2% py						221.0	222.0	1	0.0025	2.5	0.25	0.5	32	B0048361
242.45-242.71 25cm qtz-carb-chl-ser-py vein zone made up of intensely altered wallrock and and altered vein, 6% py along vein margins						222.0	223.0	1	0.0025	2.5	0.25	7	73	B0048362
						223.0	224.0	1	0.0025	2.5	0.25	0.5	36	B0048363
						224.0	225.0	1	0.0025	2.5	0.25	2	34	B0048364
						225.0	226.0	1	0.0025	2.5	0.25	4	43	B0048365
						226.0	227.0	1	0.0025	5	0.25	5	75	B0048366
						227.0	227.6	0.6	0.389	2.5	0.25	17	220	B0048367
						227.6	228.1	0.5	0.085	2.5	0.25	6	153	B0048368
						228.1	228.75	0.65	0.073	2.5	2.1	16	100	B0048370
						228.75	230.0	1.25	0.0025	2.5	0.25	19	141	B0048371
						230.0	231.0	1	0.089	2.5	0.25	8	35	B0048372
						231.0	232.0	1	0.0025	2.5	0.25	4	31	B0048373
						232.0	233.0	1	0.0025	2.5	0.25	4	28	B0048374
						233.0	234.0	1	0.023	2.5	0.25	5	22	B0048375
						234.0	235.0	1	0.186	5	0.25	36	55	B0048376
						235.0	236.0	1	0.1	2.5	0.25	21	82	B0048378
						236.0	237.0	1	0.029	2.5	0.5	36	80	B0048379
						237.0	238.0	1	0.005	2.5	0.5	15	95	B0048380
						238.0	239.0	1	0.012	2.5	0.25	8	35	B0048381
						239.0	240.0	1	0.016	5	0.25	5	19	B0048382
						240.0	241.0	1	0.141	2.5	0.25	8	15	B0048383
						241.0	241.9	0.9	0.037	2.5	0.25	3	16	B0048384
						241.9	242.4	0.5	0.027	2.5	0.25	3	14	B0048385
						242.4	242.9	0.5	0.486	15	2.6	19	500	B0048386
242.9	252.2	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	242.9	244.0	1.1	0.009	2.5	0.25	23	53	B0048387
intermediate volcanic, grey to light grey, very fine to fine grained, varying texture but predominatley massive; alteration is consistent with regional alt (weak pv chl, spotty weak carb, subtle ser spotty). sharp upper and lower contacts. Rare irregular and semi-discontinuous qtz-carb veinlets. Similar to undeformed IV units seen uphole.						244.0	245.0	1	0.0025	2.5	0.25	20	50	B0048388
						251.2	252.2	1	0.0025	2.5	0.5	28	83	B0048389

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
252.2	265.04	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	MEDIUM	LIGHT GREY	252.2	253.0	0.8	0.0025	2.5	0.25	13	119	B0048390
intermediate volcaniclastic, light grey, fine grained with clasts ranging from 0.5 to 5cm widths, varying clast composition and deformation of clasts. unit displays moderate deformation throughout creating a strong foliation. strong upper and lower contacts. py mineralization ranging from 0.5-1% along foliation and in small blebs.														
						253.0	254.0	1	0.0025	24	0.25	12	120	B0048392
						254.0	255.0	1	0.0025	2.5	0.25	34	128	B0048393
254.13-255.34m intermediate-felsic volcanic, light grey, fine grained, low abundance of 1mm plag phenos, 0.5cm carb veinlets occurring along sharp contacts, possible intrusion or large clast.														
						255.0	256.0	1	0.0025	2.5	0.25	24	96	B0048394
						256.0	257.0	1	0.0025	2.5	0.25	12	99	B0048395
261.62-261.82m 19cm qtz-carb-pot vein with trace py along contacts. possible large clasts														
						257.0	258.0	1	0.0025	2.5	0.25	10	245	B0048396
						258.0	259.0	1	0.0025	2.5	0.25	15	137	B0048397
						259.0	260.0	1	0.0025	2.5	0.25	17	137	B0048398
						260.0	261.0	1	0.0025	2.5	0.25	17	152	B0048399
						261.0	262.0	1	0.0025	2.5	0.25	12	136	B0048400
						262.0	263.0	1	0.0025	2.5	0.25	13	120	B0048401
						263.0	264.0	1	0.0025	2.5	0.25	15	128	B0048402
						264.0	265.04	1.04	0.0025	2.5	0.25	9	119	B0048403

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
265.04	418.41	IV, INTERMEDIATE VOLCANIC	MASSIVE	FINE	GREY	265.04	266.0	0.96	0.0025	2.5	0.25	7	56	B0048404
intermediate volcanic, grey to light grey, very fine to fine grained, varying texture but predominately massive, alteration is consistent with regional alt (weak pv chl, spotty weak carb, subtle ser spotty) with rare intervals displaying increased sil-pot-ser alteration. Qtz-carb stringers become semi-abundant near end of unit, amygdals appear in portions of unit but not consistently.						266.0	267.0	1	0.014	2.5	0.25	8	53	B0048406
						267.0	267.87	0.87	0.0025	2.5	0.25	6	51	B0048407
						267.87	269.0	1.13	0.0025	2.5	0.25	8	45	B0048408
267.87-276.65 intermediate volcanic, red-brown, fine grained (grain size muddled due to alteration), interval displays strong pot-pv alteration with moderate to strong sil-pv with weak fracture-fill chl and carb. deformation grades back into standard regional alteration near lower limit. low abundance of qtz-carb-chl stringers slightly irregular, 0.5% py along vein margins.						269.0	270.0	1	0.0025	2.5	0.25	9	45	B0048409
						270.0	271.0	1	0.0025	2.5	0.25	4	21	B0048410
287.9-289.7 deformation increases slightly with 0.5% py dis, slight sil alt increase						271.0	272.0	1	0.0025	2.5	0.25	4	32	B0048411
343.36-344.87 interval shows patchy increased silca alteration focused on what appear to be relic veins or clasts, 0.5% py dis						272.0	273.0	1	0.0025	2.5	0.25	10	83	B0048412
						273.0	274.0	1	0.0025	2.5	0.25	9	37	B0048413
379.89-381.40 increased epidote alteration and carb alteration						274.0	275.0	1	0.0025	2.5	0.25	2	21	B0048414
382.13-382.27 6cm qtz-carb vein with irregular blowouts with 1% bleb py and along vein margins.						275.0	276.0	1	0.0025	2.5	0.25	6	19	B0048415
400.81-403.54 Intermediate volcanoclastic, 0.1-1 cm width clasts strongly deformed and aligned to display moderate foliation, 0.5% py along foliation. sharp upper and lower contacts						276.0	276.65	0.65	0.0025	2.5	0.25	21	21	B0048416
410.80-413.52 interval displaying high abundance of 1 cm qtz-carb veinlets of similar orientation. 1% py along vein margins.						276.65	277.5	0.85	0.0025	2.5	0.25	8	49	B0048417
						277.5	278.25	0.75	0.0025	2.5	0.25	7	44	B0048418
410.8 - 413.52 : Quartz Vein, qtz-carb vein set with an 15% veins and 85% wallrock. veins have 0.5% py along margins						278.25	279.0	0.75	0.0025	2.5	0.25	6	79	B0048420
						279.0	280.0	1	0.0025	2.5	0.25	24	399	B0048421
						280.0	281.0	1	0.0025	2.5	0.25	7	98	B0048422
						281.0	282.0	1	0.0025	2.5	0.25	5	48	B0048423
						282.0	283.0	1	0.0025	2.5	0.25	11	80	B0048424
						283.0	284.0	1	0.0025	2.5	0.25	18	72	B0048425
						284.0	285.0	1	0.0025	2.5	0.25	13	86	B0048426
						285.0	286.0	1	0.0025	2.5	0.25	11	72	B0048427
						286.0	287.0	1	0.0025	2.5	0.25	16	116	B0048428
						287.0	288.0	1	0.0025	2.5	0.25	15	112	B0048429
						288.0	289.0	1	0.0025	2.5	0.25	14	112	B0048430
						289.0	290.0	1	0.0025	2.5	0.25	29	92	B0048431
						290.0	291.0	1	0.0025	2.5	0.25	58	147	B0048432
						291.0	292.0	1	0.0025	2.5	0.25	38	96	B0048434
						292.0	293.0	1	0.0025	2.5	0.25	40	115	B0048435
						342.0	342.75	0.75	0.0025	2.5	0.25	30	110	B0048436
						342.75	343.36	0.61	0.0025	2.5	0.25	27	122	B0048437

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	343.36	344.0	0.64	0.0025	2.5	0.25	29	124	B0048438					
	344.0	344.87	0.87	0.0025	2.5	0.25	10	70	B0048439					
	344.87	346.0	1.13	0.0025	2.5	0.25	29	88	B0048440					
	381.0	381.5	0.5	0.0025	5	0.25	43	97	B0048441					
	381.5	382.0	0.5	0.0025	2.5	0.25	24	100	B0048442					
	382.0	383.0	1	0.0025	2.5	0.5	24	69	B0048443					
	383.0	384.0	1	0.0025	2.5	0.25	14	63	B0048444					
	384.0	385.0	1	0.0025	2.5	0.25	10	96	B0048445					
	385.0	386.0	1	0.0025	2.5	0.25	9	39	B0048446					
	386.0	387.0	1	0.0025	2.5	0.7	19	60	B0048448					
	387.0	388.0	1	0.0025	2.5	0.25	19	67	B0048449					
	388.0	389.0	1	0.0025	2.5	0.25	7	43	B0048450					
	389.0	390.0	1	0.0025	2.5	0.25	8	51	B0048451					
	390.0	391.0	1	0.0025	2.5	0.25	7	63	B0048452					
	391.0	392.0	1	0.0025	2.5	0.5	7	120	B0048453					
	392.0	393.0	1	0.0025	2.5	0.25	12	90	B0048454					
	393.0	394.0	1	0.0025	2.5	0.5	19	93	B0048456					
	394.0	395.0	1	0.0025	2.5	0.25	8	60	B0048457					
	395.0	396.0	1	0.0025	2.5	0.25	33	145	B0048458					
	396.0	397.0	1	0.0025	2.5	0.25	11	67	B0048459					
	397.0	398.0	1	0.0025	2.5	0.6	8	71	B0048460					
	398.0	399.0	1	0.0025	2.5	0.25	6	97	B0048461					
	399.0	400.0	1	0.0025	2.5	0.6	11	97	B0048462					
	400.0	401.0	1	0.0025	2.5	0.6	15	130	B0048463					
	410.0	410.8	0.8	0.005	2.5	0.5	44	108	B0048464					
	410.8	412.0	1.2	0.006	2.5	0.5	41	102	B0048465					
	412.0	413.0	1	0.035	2.5	0.25	23	69	B0048466					
	413.0	414.0	1	0.006	2.5	0.25	23	65	B0048467					
	414.0	415.0	1	0.0025	2.5	0.25	39	104	B0048468					
	415.0	416.0	1	0.0025	2.5	0.25	62	114	B0048470					
	416.0	417.0	1	0.0025	2.5	0.25	59	91	B0048471					

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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						417.0	417.75	0.75	0.005	2.5	0.25	92	106	B0048472
						417.75	418.41	0.66	0.0025	2.5	0.25	39	116	B0048473
418.41	429.69	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY	418.41	419.0	0.59	0.016	2.5	0.25	10	17	B0048474
Intermediate Volcanic, light grey to red-brown, fine to very fine grained, unit is made up of strongly silica and weak-moderate potassic altered intervals (418.41-422.50, 426.28-428.61) with weakly deformed-moderately altered IVCL intervals occurring from 422.50-426.28, 428.61-429.69). Pot-Sil altered intervals display moderate abundance of irregular qtz-carb+/-tor veins ranging from 0.1 to 5cm widths; the larger-more altered veins display 3% py. Ser alteration is moderate in the 426.28-428.61 intervals. This strong sil altered interval is similar to other strongly silica altered intervals seen uphole.						419.0	419.75	0.75	0.011	2.5	0.25	4	16	B0048475
						419.75	420.35	0.6	0.0025	2.5	0.25	1	14	B0048476
						420.35	421.0	0.65	0.0025	2.5	0.25	4	18	B0048477
						421.0	422.0	1	0.005	2.5	0.25	5	16	B0048478
420.47-420.64 15 cm qtz-tor-carb-py veined zone with two irregular veins						422.0	422.5	0.5	0.255	2.5	0.5	3	18	B0048479
422.20-422.41 20 cm veined zone with 6cm qtz-carb-tor-py vein with a strongly altered and deformed lower contact which could possibly be a relic vein.						422.5	423.0	0.5	0.007	2.5	0.5	35	101	B0048480
						423.0	424.0	1	0.006	2.5	0.25	66	110	B0048481
						424.0	425.0	1	0.006	2.5	0.5	117	105	B0048483
						425.0	426.28	1.28	0.0025	2.5	0.5	51	111	B0048484
						426.28	427.0	0.72	0.0025	2.5	0.25	11	23	B0048485
						427.0	428.0	1	0.0025	2.5	0.25	15	28	B0048486
						428.0	428.61	0.61	0.0025	2.5	0.25	16	26	B0048487
						428.61	429.69	1.08	0.012	2.5	0.25	85	105	B0048488
429.69	433.11	IV, INTERMEDIATE VOLCANIC	FOLIATED	MEDIUM	DARK GREY	429.69	430.5	0.81	0.007	2.5	0.25	67	102	B0048489
intermediate volcanic, dark grey, fine grained, rare qtz-carb stringers 0.5-1cm widths of the same orientation, strong upper and lower contacts, possible intrusive?, 0.5% large euhedral py grains disseminated.						430.5	431.0	0.5	0.0025	2.5	0.25	58	105	B0048490
						431.0	432.0	1	0.005	2.5	0.25	67	110	B0048491
						432.0	433.11	1.11	0.007	2.5	0.5	89	118	B0048492
433.11	498	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREEN-GREY	433.11	434.0	0.89	0.012	2.5	0.25	117	92	B0048493
intermediate volcanoclastic, grey-green, fine grained, strongly deformed 0.5-3cm clasts of varying composition; some more felsic clasts have increased py mineralization within them. strong foliation defined by altered clasts, occasional qtz-carb veinlets, mineralization is consistent 0.3% diss. alteration is standard with less silica alteration. Later in unit, groundmass becomes slightly porous and clasts become larger and less deformed.						449.0	449.75	0.75	0.0025	2.5	0.25	31	131	B0048494
						449.75	450.4	0.65	0.0025	2.5	0.25	34	106	B0048496
450-450.21 20 cm carb-qtz veined zone, trace py						450.4	451.0	0.6	0.0025	2.5	0.25	39	134	B0048497
						451.0	452.0	1	0.0025	2.5	0.7	69	148	B0048498
						452.0	453.0	1	0.0025	2.5	0.25	46	123	B0048499
						453.0	454.0	1	0.0025	2.5	0.25	47	98	B0048500
						454.0	454.5	0.5	0.007	2.5	0.5	80	101	B0048501
						454.5	455.0	0.5	0.0025	2.5	0.6	7	78	B0048502
						455.0	456.0	1	0.0025	2.5	0.5	37	91	B0048503

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Drill Hole				Drilling			Coordinates			
Prospect:	VH-REDEEMER	Operator:	KGC EXPLORATION	Start Date:	Sep-17-2020	Survey Method:	HANDHELD GPS			
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Sep-19-2020	Grid:	NAD83 / UTM zone 15N			
Hole Size:	NQ	Casing Depth:	3.6	Drill Company:	Major Drilling	Easting:	509,409			
Orient:	ACT III	EOH:	226			Northing:	5,507,222			
Hole Status:	COMPLETE	Logged Depth:	226			Elevation:	389			

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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0	5.7	OB, OVERBURDEN												
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5.7	7	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY									
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Mafic volcanic unit. Weak pervasive chlorite and carbonate alteration. Unit is dark grey with a fine grain size and displays moderate deformation. Unit is located at top of hole and very rubbly.

7	25.28	IVCL, INTERMEDIATE VOLCANICLASTIC	BLEACHED	FINE	LIGHT GREY	7.0	8.0	1	0.0025	2.5	0.25	14	53	B0048504
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Intermediate volcanoclastic unit. This unit is affected by strong pervasive silica, moderate vug-fill carbonate, weak fracture-fill ankerite and weak clast-fill potassic alteration. The unit is silica bleached and presents a light grey colour, with occasional orange patches from iron staining. Rock is a fine grain size (clasts and matrix), and has clasts sized 0.5-2 cm wide and 0.5-7 cm long. Strong deformation in the form of elongated clasts. Serecite defines a moderate-strong foliation. There is 0.5-10% blebby and wispy pyrite here.

7-10 m: Presents typical alteration of this unit, with 0.5% blebby pyrite.	10.61	11.25	0.64	0.0025	2.5	0.25	22	76	B0048509
10-10.61 m: Location of a possible dike. This section appears to be a patch of mafic volcanic rock with 0.5 cm wide amygdules and 1% blebby pyrite.	11.25	12.0	0.75	0.0025	2.5	0.25	15	63	B0048510
10.61-18.78 m: Presents typical alteration of this unit, with 0.5% blebby pyrite. Serecite defining a strong foliation.	12.0	13.0	1	0.0025	2.5	0.6	20	45	B0048511
18.78-25.28 m: Clast-matrix margin becomes less obvious towards the end of this section. This section presents moderate pervasive silica alteration and weak carbonate alteration infilling vugs present in this section. There are some patches of massive pyrite wisps along foliation planes. Overall, there is 7-10% fracture-fill pyrite here.	13.0	14.0	1	0.0025	2.5	0.25	19	56	B0048512
	14.0	15.0	1	0.0025	2.5	0.25	20	91	B0048513
	15.0	16.0	1	0.0025	2.5	0.25	15	42	B0048514
	16.0	17.0	1	0.0025	2.5	0.25	10	31	B0048515
	17.0	18.0	1	0.0025	2.5	0.5	8	25	B0048516
	18.0	18.78	0.78	0.0025	2.5	0.25	9	18	B0048517
	18.78	20.0	1.22	0.0025	2.5	0.6	14	65	B0048518
	20.0	21.0	1	0.0025	2.5	0.5	33	153	B0048519
	21.0	22.0	1	0.008	2.5	0.6	21	133	B0048520
	22.0	23.0	1	0.0025	2.5	0.25	38	122	B0048521
	23.0	24.0	1	0.0025	2.5	0.25	39	118	B0048522
	24.0	25.28	1.28	0.0025	2.5	0.5	54	125	B0048523

Project: Van Horne

Hole Number: VH20-012

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
25.28	188.05	MV, MAFIC VOLCANIC	MASSIVE	FINE	GREEN-GREY	25.28	26.0	0.72	0.0025	2.5	0.5	86	187	B0048524
Mafic volcanic unit. Moderate pervasive chlorite alteration, and moderate carbonate alteration in the form of ~0.3 cm width amygdules. Unit is green-grey with a fine grain size and displays weak deformation. There are patches of <1 cm thick quartz-carbonate stringer veins throughout this unit. There is ~2% blebby pyrite and ~1% disseminated pyrite in this unit.						26.0	27.0	1	0.0025	2.5	0.5	34	179	B0048525
						27.0	28.0	1	0.0025	2.5	0.25	33	196	B0048527
						28.0	29.0	1	0.0025	2.5	0.25	34	188	B0048528
25.28-32 m: This section contains sparse 0.25-2 cm thick quartz-carbonate stringer veins. There are ~4 cm thick patches of strong epidote. There is 1% disseminate pyrite, 1-2% blebby pyrite, and 0.5% fracture-fill pyrite in this section.						29.0	30.0	1	0.005	2.5	0.5	44	179	B0048529
						30.0	31.0	1	0.0025	2.5	0.25	30	126	B0048530
32-36.13 m: This section contains 0.2 cm wide carbonate-filled amygdules. There is 1.5% blebby pyrite and 1% disseminated pyrite here.						31.0	32.0	1	0.0025	2.5	0.25	47	96	B0048531
						32.0	33.5	1.5	0.005	2.5	0.25	73	86	B0048532
36.13-39.18 m: This section is a small patch of the previous intermediate volcanoclastic unit, with strong pervasive silica, moderate vug-fill carbonate, weak fracture-fill ankerite and weak clast-fill potassic alteration. Rock is a fine grain size (clasts and matrix), and has clasts sized 0.5-2 cm wide and 0.5-7 cm long. Strong deformation in the form of elongated clasts. Sericite defines a moderate-strong foliation. There is 5% wispy pyrite here.						33.5	35.0	1.5	0.005	2.5	0.25	60	114	B0048534
						35.0	36.13	1.13	0.005	2.5	0.25	65	103	B0048535
39.18-53.93 m: This section contains occasional patches of intense biotite growths and others of epidote growths. There are 3 1-3 cm thick quartz-carbonate veins in this section, but very rare occurrences of any other stringer veins. There is 1.5% blebby pyrite and 1% VFG disseminated pyrite.						36.13	37.0	0.87	0.005	2.5	0.25	46	77	B0048536
						37.0	38.0	1	0.0025	2.5	0.25	18	50	B0048537
53.93-71.23 m: Grain size slightly increases in this zone and carbonate alteration increases slightly to moderate pervasive. There are some ~1 cm thick sub-vertical quartz-carbonate veins throughout this section, with hairline mesh-style stockworks of quartz-carbonate stringer veins. There is a 7 cm thick quartz-carbonate-chlorite vein starting at 64.08 m, surrounded by a strong carbonate-chlorite alteration halo. There is ~1% blebby pyrite in this section.						38.0	39.18	1.18	0.006	2.5	0.25	29	130	B0048538
						39.18	40.0	0.82	0.0025	2.5	0.25	58	102	B0048539
						40.0	41.0	1	0.0025	2.5	0.25	59	145	B0048540
71.23-81.51: This section grades into very fine grains. There are irregular sporadic ~1 cm thick quartz stringer veins and 1% blebby pyrite in this section.						41.0	42.0	1	0.006	2.5	0.25	61	100	B0048541
						42.0	43.0	1	0.0025	2.5	0.25	30	133	B0048542
81.51-188.05 m: This section contains occasional patches of intense epidote growths. This large section has an increase in silica content to moderate-strong pervasive silica alteration, with moderate pervasive chlorite alteration. There are occasional 0.5-2 cm thick quartz-carbonate stringer veins throughout this section. There is 1% disseminate pyrite and 0.5% blebby pyrite throughout this section.						43.0	44.0	1	0.005	2.5	0.25	79	134	B0048543
						44.0	45.0	1	0.0025	2.5	0.25	55	161	B0048544
*Bigger veins in the previous section: At 103.90-104.04 m. there is a 14 m thick quartz-carbonate-chlorite-ankerite vein. At 128.07-128.23 m, there is a 16 cm thick quartz-carbonate-chlorite vein.						45.0	46.0	1	0.0025	2.5	0.5	53	166	B0048545
						46.0	47.0	1	0.0025	2.5	0.25	48	175	B0048546
						47.0	48.0	1	0.0025	2.5	0.25	45	198	B0048548
						48.0	49.0	1	0.0025	2.5	0.25	43	190	B0048549
						49.0	50.0	1	0.0025	2.5	0.25	44	195	B0048550
						50.0	51.0	1	0.0025	2.5	0.25	43	180	B0048551
						51.0	52.0	1	0.0025	2.5	0.25	42	196	B0048552
						63.0	63.5	0.5	0.0025	2.5	0.25	56	106	B0048553
						63.5	64.0	0.5	0.0025	2.5	0.25	75	109	B0048554
						64.0	64.5	0.5	0.0025	2.5	0.25	43	101	B0048555
						64.5	65.0	0.5	0.0025	2.5	0.25	44	87	B0048556
						74.0	75.0	1	0.0025	2.5	0.25	49	107	B0048557

Project: Van Horne

Hole Number: VH20-012

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	75.0	76.0	1	0.0025	2.5	0.25	34	96	B0048558					
	76.0	77.0	1	0.0025	2.5	0.25	32	100	B0048559					
	77.0	78.0	1	0.0025	2.5	0.25	41	110	B0048560					
	78.0	79.0	1	0.0025	5	0.25	47	94	B0048562					
	79.0	80.0	1	0.0025	2.5	0.25	38	93	B0048563					
	80.0	81.0	1	0.0025	2.5	0.25	39	87	B0048564					
	81.0	82.0	1	0.0025	2.5	0.25	44	99	B0048565					
	82.0	83.0	1	0.0025	2.5	0.25	21	82	B0048566					
	83.0	84.0	1	0.0025	2.5	0.25	30	111	B0048567					
	84.0	85.0	1	0.0025	2.5	0.25	21	139	B0048568					
	85.0	86.0	1	0.0025	2.5	0.25	37	81	B0048569					
	86.0	87.0	1	0.0025	2.5	0.25	14	73	B0048570					
	87.0	88.0	1	0.0025	2.5	0.25	32	106	B0048571					
	101.5	102.0	0.5	0.0025	2.5	0.25	19	96	B0048572					
	102.0	103.0	1	0.0025	2.5	0.25	47	108	B0048573					
	103.0	103.5	0.5	0.0025	2.5	0.25	17	82	B0048574					
	103.5	104.2	0.7	0.0025	8	0.25	6	101	B0048576					
	104.2	105.0	0.8	0.0025	2.5	0.25	51	104	B0048577					
	127.0	128.0	1	0.0025	2.5	0.25	40	117	B0048578					
	128.0	129.0	1	0.0025	2.5	0.25	42	104	B0048579					
	129.0	130.0	1	0.0025	2.5	0.25	50	107	B0048580					
	130.0	131.0	1	0.0025	2.5	0.25	45	103	B0048581					
	131.0	132.0	1	0.0025	2.5	0.25	49	106	B0048582					
	132.0	133.0	1	0.0025	2.5	0.25	26	111	B0048583					
	145.0	145.5	0.5	0.0025	2.5	0.25	59	101	B0048584					
	145.5	146.08	0.58	0.0025	2.5	0.25	43	109	B0048585					
	146.08	147.0	0.92	0.0025	2.5	0.25	43	105	B0048586					
	147.0	148.0	1	0.0025	2.5	0.25	42	97	B0048587					
	148.0	149.0	1	0.0025	2.5	0.25	45	102	B0048588					
	149.0	150.0	1	0.0025	2.5	0.25	44	107	B0048590					
	150.0	151.0	1	0.0025	2.5	0.25	51	112	B0048591					

Project: Van Horne

Hole Number: VH20-012

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	151.0					151.0	152.0	1	0.0025	2.5	0.25	35	119	B0048592
	152.0					152.0	153.0	1	0.0025	2.5	0.25	42	102	B0048593
	153.0					153.0	154.0	1	0.0025	2.5	0.25	53	100	B0048594
	154.0					154.0	155.0	1	0.0025	2.5	0.25	43	111	B0048595
	155.0					155.0	156.0	1	0.0025	2.5	0.25	32	108	B0048596
	156.0					156.0	157.0	1	0.0025	2.5	0.25	15	111	B0048597
	157.0					157.0	158.0	1	0.0025	2.5	0.25	29	118	B0048598
	158.0					158.0	159.0	1	0.0025	2.5	0.25	41	107	B0048599
	159.0					159.0	160.0	1	0.0025	2.5	0.25	39	98	B0048600
	160.0					160.0	161.0	1	0.0025	2.5	0.25	44	97	B0048601
	161.0					161.0	162.0	1	0.0025	2.5	0.25	47	96	B0048602
	162.0					162.0	163.0	1	0.0025	2.5	0.25	44	103	B0048604
	163.0					163.0	164.0	1	0.0025	2.5	0.25	51	102	B0048605
	164.0					164.0	165.0	1	0.0025	2.5	0.25	51	99	B0048606
	165.0					165.0	166.0	1	0.0025	2.5	0.25	53	109	B0048607
	166.0					166.0	167.0	1	0.009	2.5	0.25	46	104	B0048608
	167.0					167.0	168.0	1	0.0025	5	0.25	47	107	B0048609
	168.0					168.0	169.0	1	0.0025	2.5	0.25	61	105	B0048610
	169.0					169.0	170.0	1	0.0025	2.5	0.25	48	87	B0048612
	170.0					170.0	171.0	1	0.0025	2.5	0.25	17	91	B0048613
	171.0					171.0	172.0	1	0.0025	2.5	0.25	169	95	B0048614
	172.0					172.0	173.0	1	0.0025	2.5	0.25	54	104	B0048615
	173.0					173.0	174.0	1	0.0025	2.5	0.25	44	102	B0048616
	174.0					174.0	175.0	1	0.0025	2.5	0.25	47	103	B0048617
	175.0					175.0	176.0	1	0.0025	2.5	0.25	50	101	B0048618
	176.0					176.0	177.0	1	0.0025	2.5	0.25	48	103	B0048619
	177.0					177.0	178.0	1	0.0025	2.5	0.25	46	98	B0048620
	178.0					178.0	179.0	1	0.0025	2.5	0.25	58	97	B0048621
	179.0					179.0	180.0	1	0.0025	2.5	0.25	41	105	B0048622
	180.0					180.0	181.0	1	0.0025	2.5	0.25	51	97	B0048623
	181.0					181.0	182.0	1	0.0025	2.5	0.25	58	102	B0048624

Project: Van Horne

Hole Number: VH20-012

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						182.0	183.0	1	0.0025	12	0.25	54	105	B0048626
						183.0	184.0	1	0.0025	2.5	0.25	42	106	B0048627
						184.0	185.0	1	0.0025	2.5	0.25	16	92	B0048628
						185.0	186.0	1	0.0025	2.5	0.25	22	90	B0048629
						186.0	187.0	1	0.0025	2.5	0.25	44	99	B0048630
						187.0	188.0	1	0.0025	2.5	0.25	45	91	B0048631
						188.0	189.0	1	0.0025	2.5	0.25	48	83	B0048632
188.05	203.58	MV, MAFIC VOLCANIC	FOLIATED	MEDIUM	GREY	188.0	189.0	1	0.0025	2.5	0.25	48	83	B0048632
Mafic volcanic unit. Strong pervasive silica and moderate pervasive/disseminated biotite alteration. Unit is grey with a fine grain size and displays strong deformation in the form of a biotite-defined foliation. There are patches of <1 cm thick quartz-carbonate stringer veins throughout this unit. There is ~1% blebby pyrite and ~1% disseminated pyrite in this unit. This unit is the possible location of the Redeemer vein, with related alteration halo.						189.0	190.0	1	0.0025	2.5	0.25	39	93	B0048633
						190.0	191.0	1	0.005	2.5	0.25	44	94	B0048634
*Bigger veins in this unit: At 191.18-191.32 m, a banded 14 cm thick quartz-carbonate-tourmaline-chlorite vein. At 191.78-192.04 m, a banded 26 cm thick quartz-carbonate-tourmaline-chlorite vein.						191.0	191.5	0.5	0.0025	2.5	0.25	66	122	B0048635
						191.5	192.15	0.65	0.0025	2.5	0.5	35	464	B0048636
198-201 m: A dense set of quartz-carbonate stringer veins present in this section, with an increase in silica alteration to strong pervasive. Also, there is an increase in sulfides, to 2% disseminate pyrite, 1% blebby pyrite, 1% vein-fill pyrite, and 1% vein-fill chalcopyrite.						192.15	193.0	0.85	0.006	2.5	0.25	64	86	B0048637
						193.0	194.0	1	0.005	2.5	0.25	64	95	B0048638
201-201.7 m: Continuation of previous vein set and alteration, but greater increase in sulfides. There is 4% disseminated pyrite, and 2% blebby pyrite.						194.0	195.0	1	0.008	2.5	0.25	76	89	B0048640
						195.0	196.0	1	0.007	2.5	0.25	71	99	B0048641
						196.0	197.0	1	0.012	2.5	0.25	79	97	B0048642
						197.0	198.0	1	0.008	2.5	0.25	28	107	B0048643
						198.0	198.5	0.5	0.011	2.5	0.25	38	130	B0048644
						198.5	199.0	0.5	0.018	2.5	0.25	70	149	B0048645
						199.0	199.5	0.5	0.02	2.5	0.25	83	112	B0048646
						199.5	200.0	0.5	0.013	2.5	0.25	76	120	B0048647
						200.0	200.5	0.5	0.024	2.5	0.25	79	103	B0048648
						200.5	201.0	0.5	0.04	2.5	0.25	51	93	B0048649
						201.0	201.7	0.7	0.009	2.5	0.25	44	111	B0048650
						201.7	202.48	0.78	0.415	2.5	0.25	68	66	B0048651
						202.48	203.0	0.52	0.007	2.5	0.25	54	109	B0048652
						203.0	204.0	1	0.059	2.5	0.25	41	98	B0048654

Project: Van Horne

Hole Number: VH20-012

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
203.58	226	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	203.0	204.0	1	0.059	2.5	0.25	41	98	B0048654
Mafic volcanic unit. Moderate pervasive chlorite alteration, and moderate carbonate alteration. Unit is green-grey with a fine grain size and displays weak deformation. There are patches of 0.5-1 cm thick quartz-carbonate stringer veins throughout this unit. There is ~2% blebby pyrite and ~1% disseminated pyrite in this unit.														
						204.0	205.0	1	0.007	2.5	0.25	9	54	B0048655
						205.0	206.0	1	0.0025	2.5	0.25	15	59	B0048656
* Bigger vein at 220.15-220.27 m, a 12 cm thick quartz-carbonate vein.														
						206.0	207.0	1	0.0025	2.5	0.25	9	87	B0048657
						207.0	208.0	1	0.0025	2.5	0.25	6	91	B0048658
						208.0	209.0	1	0.0025	2.5	0.25	6	88	B0048659
						209.0	210.0	1	0.0025	2.5	0.25	5	88	B0048660
						210.0	211.0	1	0.0025	2.5	0.25	12	91	B0048661
						211.0	212.0	1	0.0025	2.5	0.25	16	84	B0048662
						212.0	213.0	1	0.0025	2.5	0.25	5	84	B0048663
						213.0	214.0	1	0.0025	2.5	0.25	17	88	B0048664
						214.0	215.0	1	0.0025	2.5	0.25	20	95	B0048665
						215.0	216.0	1	0.0025	2.5	0.25	34	98	B0048666
						216.0	217.0	1	0.0025	2.5	0.25	24	82	B0048668
						217.0	218.0	1	0.0025	2.5	0.25	9	81	B0048669
						218.0	219.0	1	0.0025	2.5	0.25	41	97	B0048670
						219.0	220.0	1	0.0025	2.5	0.25	39	108	B0048671
						220.0	221.0	1	0.0025	2.5	0.25	61	81	B0048672
						221.0	222.0	1	0.0025	2.5	0.25	52	97	B0048673
						222.0	223.0	1	0.0025	2.5	0.25	53	105	B0048674
						223.0	224.0	1	0.0025	2.5	0.25	45	107	B0048675
						224.0	225.0	1	0.0025	2.5	0.25	46	103	B0048676
						225.0	226.0	1	0.0025	2.5	0.25	51	105	B0048677

Project: Van Horne	Hole Number: VH20-013
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Drill Hole				Drilling			Coordinates			
Prospect: VH-REDEEMER	Operator: KGC EXPLORATION	Start Date: Sep-19-2020	Survey Method: HANDHELD GPS							
Year: 2020	Geologist: Lauren Norenberg	End Date: Sep-20-2020	Grid: NAD83 / UTM zone 15N							
Hole Size: NQ	Casing Depth: 6	Drill Company: Major Drilling	Easting: 509,466							
Orient: ACT III	EOH: 145		Northing: 5,507,124							
Hole Status: COMPLETE	Logged Depth: 145		Elevation: 388							

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
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0	6.55	OB, OVERBURDEN												
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6.55	68.37	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	33.0	34.0	1	0.332	2.5	0.25	39	104	B0048678
Mafic volcanic unit. Moderate pervasive chlorite alteration with moderate fracture-fill carbonate alteration, weak pervasive silica alteration also present. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are multiple quartz veins throughout this unit. There are patches of hairline stringer vein stockworks and sporadic occurrences of 3-10 cm thick quartz-carbonate-chlorite veins. There is approximately 2% disseminated pyrite and 2% blebby pyrite.						34.0	35.15	1.15	0.009	2.5	0.25	41	104	B0048679
						35.15	36.0	0.85	0.0025	2.5	0.25	57	108	B0048680
						36.0	36.6	0.6	0.0025	2.5	0.25	17	60	B0048682
6.55-68.37 m: This section displays a massive texture with patches of hairline fractures that have been infilled with quartz and carbonate, these appear as hairline stringer-style veins. The host rock is affected by moderate pervasive chlorite and weak pervasive silica alteration. There is ~1.5% disseminated pyrite, 2% blebby pyrite, and 1% pyrite occasionally infilling veins.						36.6	37.5	0.9	0.0025	2.5	0.25	9	128	B0048683
						59.0	60.0	1	0.005	2.5	0.25	58	121	B0048684
						60.0	61.0	1	0.019	2.5	0.25	51	123	B0048685
Bigger veins in the previous section: At 21.01-21.07 m, a 6 cm thick quartz-carbonate-epidote-tourmaline vein. At 33.88-33.97 m, a 8 cm thick quartz-carbonate-chlorite vein. At 34.62-34.68 m, a 6 cm thick quartz-carbonate-chlorite-pyrite vein. At 34.99-35.07 m, an 8 cm thick chlorite-quartz-carbonate vein. At 36.23-36.56 cm, a 33 cm thick quartz-carbonate-tourmaline-chlorite vein.						61.0	62.0	1	0.005	2.5	0.25	45	97	B0048686
						62.0	63.0	1	0.007	2.5	0.25	44	97	B0048687
						63.0	64.0	1	0.007	2.5	0.25	50	95	B0048688
36.23 - 36.56 : Quartz Vein, a 33 cm thick quartz-carbonate-tourmaline-chlorite vein						64.0	65.0	1	0.0025	2.5	0.25	47	109	B0048690
						65.0	66.0	1	0.0025	2.5	0.25	46	105	B0048691
						66.0	67.0	1	0.007	2.5	0.25	48	108	B0048692
						67.0	67.75	0.75	0.007	2.5	0.25	45	106	B0048693
						67.75	68.35	0.6	0.01	2.5	0.5	47	103	B0048694
						68.35	68.9	0.55	0.041	2.5	0.5	112	247	B0048695

Project: Van Horne

Hole Number: VH20-013

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
68.37	71.14	QV, QUARTZ VEIN	BANDED	MEDIUM	LIGHT GREEN	68.35	68.9	0.55	0.041	2.5	0.5	112	247	B0048695
						68.9	69.65	0.75	0.327	2.5	0.9	360	315	B0048696
						69.65	70.2	0.55	1.295	7	0.6	71	58	B0048697
						70.2	71.15	0.95	0.088	8	0.25	61	101	B0048698

This is the possible location of the Redeemer vein. The vein(s) are hosted in a mafic volcanic unit. The zone is affected by strong pervasive chlorite alteration, strong pervasive silica alteration, and strong fracture-fill carbonate alteration. The host rock is a fine grain size and the quartz veins are a medium grain size. The host rock is a green-grey colour and the quartz veins are a light-grey to white colour. The host rock presents strong deformation in the form of a chlorite-defined strong foliation. The quartz veins present a banded texture at the vein-wall rock margin but a blocky texture at the centre of the vein. There is 2% disseminated pyrite, 4% blebby pyrite, 5% vein-fill pyrite in this section, and 1% vein-fill chalcopyrite.. There are some patches of almost semi-massive pyrite.

Dominant veins in this "unit": At 68.91-69.12 m, a 21 cm thick quartz-carbonate-chlorite-pyrite-chalcopyrite vein. 69.43-69.61 m, an 18 cm thick quartz-carbonate-chlorite-tourmaline-pyrite vein. At 69.73-70.13 m, a 40 cm thick quartz-carbonate-chlorite-tourmaline-pyrite-chalcopyrite vein. At 70.65-70.72 m, a 7 cm thick quartz-carbonate-pyrite-chlorite-tourmaline vein (this vein contains semi-massive sulfides). At 70.82-71.05 m, a 23 cm thick quartz-carbonate-chlorite-pyrite vein.

Project: Van Horne

Hole Number: VH20-013

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
71.14	98.73	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	70.2	71.15	0.95	0.088	8	0.25	61	101	B0048698
Same as initial mafic unit at beginning of hole.						71.15	72.0	0.85	0.01	2.5	0.25	57	111	B0048699
71.17-81.38 m: This section displays a massive texture with patches of hairline fractures that have been infilled with quartz and carbonate, these appear as hairline stringer-style veins. The host rock is affected by moderate pervasive chlorite and weak pervasive silica alteration. There is ~1.5% disseminated pyrite, 2-3% blebby pyrite, and 2% wispy pyrite.						72.0	73.0	1	0.007	2.5	0.25	54	116	B0048700
						73.0	74.0	1	0.0025	2.5	0.25	48	116	B0048701
*Bigger vein at 75.96-76.04, an 8 cm thick quartz-carbonate-chlorite vein.						74.0	75.0	1	0.0025	2.5	0.25	52	136	B0048702
81.38-89.18 m: This section is affected by strong-pervasive silica alteration and has larger pyrite blebs. This section is densely packed with carbonate-filled amygdules. ~3% blebby pyrite here.						75.0	76.0	1	0.0025	8	0.25	36	121	B0048704
						76.0	77.0	1	0.0025	2.5	0.5	58	120	B0048705
89.18-98.73 m: This section is a massive mafic volcanic, with rare carbonate-filled amygdules. Silica alteration has decreased to moderate. There are some quartz veins in this section and 2-3% wispy pyrite.						77.0	78.0	1	0.0025	2.5	0.25	31	126	B0048706
						78.0	79.0	1	0.0025	2.5	0.25	42	131	B0048707
*Bigger veins: At 90.40-90.47, a 7 cm thick pure chlorite vein (with slight quartz-carbonate around edges). At 90.55-91.0 m, a 45 cm thick carbonate-chlorite-quartz-sericite vein.						79.0	80.0	1	0.0025	2.5	0.25	54	110	B0048708
						80.0	81.0	1	0.005	2.5	0.5	52	108	B0048709
						81.0	82.0	1	0.0025	2.5	0.25	45	137	B0048710
						82.0	83.0	1	0.0025	2.5	0.25	27	193	B0048711
						83.0	84.0	1	0.005	2.5	0.25	30	191	B0048712
						84.0	85.0	1	0.0025	2.5	0.25	43	156	B0048713
						85.0	86.0	1	0.0025	2.5	0.25	38	155	B0048714
						86.0	87.0	1	0.0025	2.5	0.25	50	174	B0048715
						87.0	88.0	1	0.0025	2.5	0.25	35	180	B0048717
						88.0	89.0	1	0.0025	2.5	0.25	12	162	B0048718
						89.0	90.0	1	0.0025	2.5	0.25	18	110	B0048719
						90.0	91.0	1	0.0025	2.5	0.25	7	136	B0048720
						91.0	92.0	1	0.0025	2.5	0.25	38	141	B0048721
						92.0	93.0	1	0.0025	2.5	0.25	56	186	B0048722
						93.0	94.0	1	0.0025	2.5	0.25	31	238	B0048723
						94.0	95.0	1	0.0025	2.5	0.25	18	180	B0048724
						95.0	96.0	1	0.0025	2.5	0.25	16	119	B0048725
						96.0	97.0	1	0.0025	2.5	0.25	27	111	B0048726
						97.0	98.0	1	0.0025	2.5	0.25	22	118	B0048727
						98.0	99.0	1	0.0025	2.5	0.25	20	145	B0048728

Project: Van Horne

Hole Number: VH20-013

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
98.73	145	MVCL, MAFIC VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	98.0	99.0	1	0.0025	2.5	0.25	20	145	B0048728
Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate carbonate pervasive, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. There is 1% disseminated pyrite, 2% blebby pyrite, 3% wispy pyrite, and occasional patches of semi-massive pyrite.						99.0	100.0	1	0.0025	2.5	0.25	13	237	B0048730
98.73-100.92 m: This section is a small patch of brecciation, the clasts are sub-angular and are a dark grey on their rim and light grey in the centre. This section is affected by strong pervasive silica alteration and 3% blebby pyrite and 2% wispy pyrite.						100.0	101.0	1	0.0025	6	0.25	23	329	B0048731
100.92-107.36 m: This section was poorly-defined clasts and presents intense silica alteration and a coarser grain size. There are some 1-5 cm thick quartz-carbonate veins. This section has 1% disseminated pyrite, 2% blebby pyrite and 3-5% wispy/semi-massive pyrite.						101.0	102.0	1	0.0025	2.5	0.25	20	196	B0048732
107.36-143.62 m: This section is affected by moderate silica alteration and moderate carbonate alteration infilling clasts. Clasts are strongly elongated parallel to foliation. Clasts are 0.25-0.5 cm wide by 0.5-1 cm long. There are rare quartz vein in this section . There is 1% disseminated pyrite, 1% blebby pyrite here.						102.0	103.0	1	0.0025	2.5	0.25	43	140	B0048733
*Bigger vein at 143.21-143.62 m. a 42 cm thick quartz-carbonate-chlorite-pyrite.						103.0	104.0	1	0.018	2.5	1	412	166	B0048734
143.62-144.62 m: A possible 1 metre long mafic intrusive dike, very dark grey and fine grained.						104.0	105.0	1	0.0025	2.5	0.25	40	97	B0048735
144.62-145 m (EOH): Continuation of previous clastic subsection.						105.0	106.0	1	0.0025	2.5	0.25	51	100	B0048736
						106.0	107.0	1	0.0025	2.5	0.25	49	90	B0048737
						107.0	108.0	1	0.0025	2.5	0.25	55	92	B0048738
						108.0	109.0	1	0.0025	2.5	0.25	13	91	B0048739
						109.0	110.0	1	0.0025	2.5	0.25	22	63	B0048740
						110.0	111.0	1	0.0025	2.5	0.25	35	135	B0048741
						111.0	112.0	1	0.0025	2.5	0.25	42	69	B0048743
						112.0	113.0	1	0.0025	2.5	0.25	37	84	B0048744
						113.0	114.0	1	0.0025	2.5	0.25	35	126	B0048745
						114.0	115.0	1	0.0025	2.5	0.25	44	157	B0048746
						115.0	116.0	1	0.0025	2.5	0.25	29	161	B0048747
						116.0	117.0	1	0.0025	2.5	0.25	35	292	B0048748
						117.0	118.0	1	0.0025	2.5	0.25	41	174	B0048749
						118.0	119.0	1	0.0025	2.5	0.25	92	108	B0048750
						119.0	120.0	1	0.0025	2.5	0.25	19	89	B0048751
						120.0	121.0	1	0.0025	2.5	0.25	23	111	B0048752
						121.0	122.0	1	0.0025	2.5	0.25	57	77	B0048753
						122.0	123.0	1	0.0025	2.5	0.25	38	76	B0048754
						123.0	124.0	1	0.0025	2.5	0.25	20	76	B0048755
						124.0	125.0	1	0.0025	2.5	0.25	38	108	B0048756
						125.0	126.0	1	0.0025	2.5	0.25	78	144	B0048757
						126.0	127.0	1	0.0025	2.5	0.25	70	145	B0048758
						127.0	128.0	1	0.005	2.5	0.25	72	162	B0048759
						128.0	129.0	1	0.0025	6	0.25	38	198	B0048761

Project: Van Horne

Hole Number: VH20-013

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	129.0	130.0	1	0.0025	2.5	0.25	32	135	B0048762					
	130.0	131.0	1	0.0025	2.5	0.25	12	133	B0048763					
	131.0	132.0	1	0.0025	2.5	0.25	40	87	B0048764					
	132.0	133.0	1	0.0025	2.5	0.25	85	123	B0048765					
	133.0	134.0	1	0.0025	2.5	0.25	78	93	B0048766					
	134.0	135.0	1	0.0025	2.5	0.25	35	74	B0048768					
	135.0	136.0	1	0.0025	2.5	0.25	55	95	B0048769					
	136.0	137.0	1	0.0025	2.5	0.25	55	96	B0048770					
	137.0	138.0	1	0.0025	2.5	0.25	48	108	B0048771					
	138.0	139.0	1	0.0025	2.5	0.25	55	102	B0048772					
	139.0	140.0	1	0.0025	2.5	0.25	53	105	B0048773					
	140.0	141.0	1	0.0025	2.5	0.25	129	150	B0048774					
	141.0	142.0	1	0.0025	2.5	0.25	46	160	B0048775					
	142.0	143.0	1	0.0025	2.5	0.25	61	148	B0048776					
	143.0	144.0	1	0.0025	2.5	0.25	16	64	B0048777					
	144.0	145.0	1	0.0025	2.5	0.25	70	178	B0048778					

Project: Van Horne **Hole Number:** VH20-014

Drill Hole		Drilling		Coordinates			
Prospect:	VH-REDEEMER	Operator:	KGC EXPLORATION	Start Date:	Sep-21-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Sep-22-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	7	Drill Company:	Major Drilling	Easting:	509,519
Orient:	ACT III	EOH:	150			Northing:	5,507,116
Hole Status:	COMPLETE	Logged Depth:	150			Elevation:	382

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	7.35	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-014

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
7.35	99.9	MV, MAFIC VOLCANIC	MASSIVE	FINE	GREEN-GREY	56.0	57.0	1	0.0025	2.5	0.25	7	97	B0048779
Mafic volcanic unit. Moderate pervasive chlorite alteration with moderate fracture-fill carbonate alteration, weak pervasive silica alteration also present. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are multiple quartz veins throughout this unit. There are patches of hairline stringer vein stockworks and sporadic occurrences of 3-10 cm thick quartz-carbonate-chlorite veins. There is approximately 1% disseminated pyrite and 1% blebby pyrite.						57.0	58.0	1	0.031	2.5	0.25	33	114	B0048780
						58.0	59.0	1	0.008	2.5	0.25	74	100	B0048782
						59.0	60.0	1	0.01	2.5	0.25	82	103	B0048783
7.35-19.74 m: This section is affected by moderate-strong pervasive silica and weak fracture-fill carbonate. There are hairline quartz-carbonate veins here, low density.						69.0	70.0	1	0.0025	2.5	0.5	69	111	B0048784
						70.0	71.0	1	0.0025	2.5	0.25	73	92	B0048785
19.74-29.0 m: This section is affected by strong-intense pervasive silica alteration. There are multiple >5cm thick quartz-carbonate-epidote veins in this section. There is 1% disseminated pyrite here.						71.0	72.0	1	0.0025	2.5	0.25	98	99	B0048786
						72.0	73.0	1	0.0025	2.5	0.25	89	103	B0048787
*Bigger veins in the previous section: At 22.91-93.07 m, a 16 cm thick quartz-carbonate-chlorite vein. At 23.2-23.36 m, a 16 cm thick quartz-carbonate-epidote vein. At 23.67-23.72 m, a 5 cm thick quartz-carbonate-epidote-chlorite vein. At 26.73-26.79 m, a 9 cm thick epidote-quartz-carbonate vein.						73.0	74.0	1	0.0025	2.5	0.25	106	103	B0048788
						74.0	75.0	1	0.0025	2.5	0.25	100	96	B0048789
29.0-36.12 m: This section is affected by moderate pervasive chlorite alteration. There are hairline quartz-carbonate veins here, low density.						75.0	76.0	1	0.0025	2.5	0.25	84	103	B0048790
						76.0	77.0	1	0.0025	2.5	0.25	44	73	B0048791
36.12-48.79 m: This section is affected by strong pervasive silica alteration and moderate fracture-fill carbonate alteration, there is a stockwork of stringer veins throughout this section that contain angular clasts/pieces of the host rock within thicker/denser zones of the stockwork. Veins are highly irregular in this section. There is ~2% vein fill pyrite here.						77.0	78.0	1	0.0025	2.5	0.25	56	95	B0048792
						88.0	88.5	0.5	0.0025	2.5	0.25	42	88	B0048793
48.79-57.57 m: This section is affected by moderate pervasive silica, with carbonate-filled amygdules. Carbonate is also seen in infill hairline fractures.						88.5	89.0	0.5	0.0025	2.5	0.25	70	74	B0048794
						89.0	89.5	0.5	0.0025	2.5	0.25	11	73	B0048796
57.57-80.69 m: This section is affected by strong-intense pervasive silica alteration. At the beginning of this section there is a parallel set of stringer veins, but following there are many irregular stringer veins. All veins are infilled with silica and carbonate, with banding of chlorite in the parallel stringer veins. This section also contains carbonate-filled vugs throughout. There is 1% disseminated pyrite in the host rock and 1.5% vein-fill pyrite here.						89.5	90.0	0.5	0.0025	2.5	0.25	46	71	B0048797
						90.0	91.0	1	0.0025	2.5	0.25	29	87	B0048798
*Most intense patches/denser stringer vein zones between 58-59 and 75-77 m														
80.69-99.90 m: This section is affected by moderate pervasive silica, carbonate and chlorite. There is carbonate-filled amygdules. This section is possible a volcanoclastic unit, but clasts are very difficult to distinguish. Reason for thinking this is that there are alternating shades of light and dark grey in this core. There is 1% disseminated pyrite and 1.5% vein-fill pyrite here.														

Project: Van Horne

Hole Number: VH20-014

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
99.9	150	MVCL, MAFIC VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	104.0	105.0	1	0.0025	2.5	0.25	28	101	B0048799
Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate carbonate pervasive, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. There is 1% disseminated pyrite, 2% blebby pyrite, 3% wispy pyrite, and occasional patches of semi-massive pyrite.														
99.9-108.59 m: This section is affected by moderate pervasive silica, carbonate and chlorite. Carbonate is seen primarily as affecting clasts specifically. Clasts are 1-2 cm wide by 3-4 cm long. There is 2% blebby pyrite, 2% disseminated pyrite and 3% vein-fill pyrite here.														
*Big vein in this section at 108.33-108.59 m, a 26 cm thick quartz-carbonate-chlorite-epidote-pyrite vein.														
108.59-111.52 m: This section was poorly-defined clasts and presents intense silica alteration and a coarser grain size. There are some 1-5 cm thick quartz-carbonate veins. This section has 1% disseminated pyrite, 2% blebby pyrite.														
111.52-124.71 m: Clast size decreases greatly here, with clasts sized 0.25-0.5 cm wide by 0.5-1 cm long. There are random silica-rich angular clasts within this section. There is a strong foliation elongating clasts. This section is affected by moderate silica alteration and moderate carbonate alteration infilling clasts. There is 1% disseminated pyrite, 1% blebby pyrite here.														
124.71-132.71 m: This section is affected by strong pervasive silica alteration and moderate pervasive chlorite alteration. Clast-matrix boundary is difficult to distinguish here. There is 1% disseminated pyrite, 1% blebby pyrite here.														
*Bigger veins are seen: At 124.93-124.98 m, a 5 cm thick quartz-carbonate-chlorite vein. At 125.55-126.63 m, a 8 cm thick quartz-carbonate-chlorite vein. At 128.75-128.8 m, a 5 cm thick quartz-carbonate vein.														
132.71-134.0 m: A possible mafic intrusive dike. *Contains vein at 132.95-133.0 m, a 5 cm thick quart-carbonate-chlorite vein.														
134.0-150.0 m: Clasts are sized 0.5-1 cm wide by 1-2 cm long. There are random silica-rich angular clasts within this section. There is a strong foliation elongating clasts. This section is affected by moderate silica alteration and moderate carbonate alteration infilling clasts. There is 0.5% vein-fill pyrite, 1% disseminated pyrite, 1% blebby pyrite here.														
						105.0	106.0	1	0.0025	2.5	0.25	30	101	B0048800
						106.0	107.0	1	0.0025	2.5	0.25	36	112	B0048801
						107.0	108.0	1	0.0025	2.5	0.25	32	100	B0048802
						108.0	108.75	0.75	0.0025	2.5	0.25	65	493	B0048803
						108.75	109.5	0.75	0.0025	2.5	0.25	30	95	B0048804
						109.5	110.1	0.6	0.0025	2.5	0.25	23	105	B0048805
						110.1	111.0	0.9	0.0025	2.5	0.25	38	92	B0048806
						111.0	112.0	1	0.0025	2.5	0.25	45	98	B0048807
						112.0	113.0	1	0.0025	2.5	0.25	29	80	B0048808
						113.0	114.0	1	0.0025	2.5	0.25	27	69	B0048810
						114.0	115.0	1	0.0025	2.5	0.25	26	114	B0048811
						115.0	116.0	1	0.0025	2.5	0.25	26	113	B0048812
						116.0	117.0	1	0.0025	2.5	0.25	28	107	B0048813
						117.0	118.0	1	0.0025	2.5	0.25	29	94	B0048814
						118.0	119.0	1	0.0025	2.5	0.25	31	98	B0048815
						119.0	120.0	1	0.0025	2.5	0.25	30	98	B0048816
						120.0	121.0	1	0.0025	2.5	0.25	32	93	B0048817
						121.0	122.0	1	0.0025	2.5	0.25	32	91	B0048818
						122.0	123.0	1	0.0025	2.5	0.25	23	85	B0048819
						123.0	124.0	1	0.0025	2.5	0.25	31	79	B0048820
						124.0	125.0	1	0.0025	2.5	0.25	37	115	B0048821
						125.0	126.0	1	0.0025	2.5	0.25	35	93	B0048822
						126.0	127.0	1	0.0025	2.5	0.25	34	79	B0048824
						127.0	128.0	1	0.0025	2.5	0.25	22	78	B0048825
						128.0	129.0	1	0.0025	2.5	0.25	24	85	B0048826
						129.0	130.0	1	0.0025	2.5	0.25	28	86	B0048827
						130.0	131.0	1	0.0025	2.5	0.25	45	94	B0048828
						131.0	132.0	1	0.0025	2.5	0.25	35	91	B0048829
						132.0	133.0	1	0.0025	2.5	0.25	31	85	B0048830
						133.0	134.0	1	0.0025	2.5	0.25	28	81	B0048831

Project: Van Horne

Hole Number: VH20-014

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
	134.0					135.0	135.0	1	0.005	2.5	0.25	68	88	B0048832
	135.0					136.0	136.0	1	0.0025	2.5	0.25	58	86	B0048833
	136.0					137.0	137.0	1	0.006	2.5	0.25	63	84	B0048834
	137.0					138.0	138.0	1	0.0025	2.5	0.25	78	83	B0048835
	138.0					139.0	139.0	1	0.0025	2.5	0.25	38	102	B0048836
	139.0					140.0	140.0	1	0.005	2.5	0.25	53	96	B0048838
	140.0					141.0	141.0	1	0.0025	2.5	0.25	43	94	B0048839
	141.0					142.0	142.0	1	0.0025	2.5	0.25	42	91	B0048840
	142.0					143.0	143.0	1	0.0025	5	0.25	43	103	B0048841
	143.0					144.0	144.0	1	0.0025	2.5	0.25	42	103	B0048842
	144.0					145.0	145.0	1	0.0025	2.5	0.25	36	121	B0048843
	145.0					146.0	146.0	1	0.0025	7	0.25	49	115	B0048844
	146.0					147.0	147.0	1	0.0025	2.5	0.25	49	112	B0048846
	147.0					148.0	148.0	1	0.0025	2.5	0.25	36	95	B0048847
	148.0					149.0	149.0	1	0.0025	2.5	0.25	60	93	B0048848
	149.0					150.0	150.0	1	0.0025	2.5	0.25	83	98	B0048849

Project: Van Horne **Hole Number:** VH20-015

Drill Hole		Drilling		Coordinates			
Prospect:	VH-REDEEMER	Operator:	KGC EXPLORATION	Start Date:	Sep-22-2020	Survey Method:	HANDHELD GPS
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Sep-23-2020	Grid:	NAD83 / UTM zone 15N
Hole Size:	NQ	Casing Depth:	8	Drill Company:	Major Drilling	Easting:	509,369
Orient:	ACT III	EOH:	150			Northing:	5,507,131
Hole Status:	COMPLETE	Logged Depth:	150			Elevation:	386

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	8.22	OB, OVERBURDEN												

Project: Van Horne

Hole Number: VH20-015

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
8.22	67.68	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	21.0	22.0	1	0.0025	2.5	0.25	84	138	B0048850
Mafic volcanic unit. Moderate pervasive chlorite alteration with moderate fracture-fill carbonate alteration, weak pervasive silica alteration also present. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are multiple quartz veins throughout this unit. There are patches of hairline stringer vein stockworks and sporadic occurrences of 3-10 cm thick quartz-carbonate-chlorite veins. There is approximately 1% disseminated pyrite and 1% blebby pyrite.														
8.22-23.6 m: This section is affected by moderate pervasive silica and carbonate alteration. The carbonate is seen to infill vugs located at the first 4.5 metres of this section. There is ~1.5% disseminated pyrite and ~0.5% blebby pyrite here.														
*There is a bigger vein in the previous section at 23.17-23.21 m. a 4 cm thick quartz-carbonate-chlorite vein.														
23.6-27.0 m: This section is affected by strong pervasive silica alteration that has produced a coarser grain size in this section. There is 1% disseminated pyrite here.														
27.0-34.31 m: This section is affected by moderate pervasive silica and carbonate alteration. There is ~1.5% disseminated pyrite and ~0.5% blebby pyrite here.														
34.31-36.92 m: This section is very rubbly and fractured, with a unique reddish-pink colour. This section appears to be affected by strong pervasive potassic and silica alteration, with some moderate fracture-fill ankerite/hematite alteration. There is a >5 cm thick quartz vein in the middle of this section.														
36.92-42.0 m: This section is affected by strong pervasive silica alteration that has produced a coarser grain size in this section. There is 1% disseminated pyrite here.														
*There is a bigger vein in the previous section at 41.61-41.81 m, a 20 cm thick quartz-carbonate vein.														
42.0-67.68 m: This section is affected by strong pervasive silica and moderate pervasive chlorite alteration. There are multiple ~1 cm thick quartz-carbonate-epidote veins in this section. There is 1% disseminated pyrite an 0.5% vein-fill chalcopyrite here.														
*There are bigger veins in the previous section: At 45.94-46.08 m, a 12 cm thick quartz-carbonate-chlorite vein. At 57.61-57.68, a 7 cm thick quartz-carbonate-chlorite-chalcopyrite vein.														
						22.0	23.0	1	0.0025	2.5	0.25	34	87	B0048851
						23.0	24.0	1	0.0025	2.5	0.25	53	113	B0048852
						24.0	25.0	1	0.0025	6	0.25	56	112	B0048853
						25.0	26.0	1	0.0025	2.5	0.25	32	112	B0048854
						26.0	27.0	1	0.0025	5	0.25	67	131	B0048855
						34.0	35.0	1	0.0025	2.5	0.25	18	21	B0048856
						35.0	36.0	1	0.0025	13	0.25	44	39	B0048858
						36.0	37.0	1	0.0025	5	0.6	38	95	B0048859
						37.0	38.0	1	0.0025	5	0.25	47	96	B0048860
						38.0	39.0	1	0.0025	2.5	0.25	35	102	B0048861
						39.0	40.0	1	0.0025	2.5	0.25	43	103	B0048862
						40.0	41.0	1	0.0025	2.5	0.25	59	99	B0048863
						41.0	41.5	0.5	0.0025	2.5	0.25	4	123	B0048864
						41.5	42.0	0.5	0.0025	2.5	0.25	2	112	B0048865
						42.0	43.0	1	0.0025	2.5	0.25	40	67	B0048866
						43.0	44.0	1	0.0025	2.5	0.25	54	91	B0048867
						44.0	45.0	1	0.0025	2.5	0.25	40	113	B0048868
						45.0	45.75	0.75	0.0025	2.5	0.25	66	117	B0048869
						45.75	46.5	0.75	0.0025	2.5	0.25	35	107	B0048870
						46.5	47.2	0.7	0.0025	2.5	0.25	57	109	B0048871
						47.2	48.0	0.8	0.0025	2.5	0.25	46	106	B0048872
						48.0	49.0	1	0.0025	2.5	0.25	46	106	B0048874
						49.0	50.0	1	0.0025	2.5	0.25	47	103	B0048875
						50.0	51.0	1	0.0025	6	0.25	50	103	B0048876
						51.0	52.0	1	0.0025	2.5	0.25	46	100	B0048877
						52.0	53.0	1	0.0025	6	0.25	38	102	B0048878
						53.0	54.0	1	0.0025	5	0.25	44	110	B0048879
						54.0	55.0	1	0.0025	2.5	0.25	46	102	B0048880
						55.0	56.0	1	0.0025	6	0.25	46	99	B0048881
						56.0	57.0	1	0.0025	6	0.25	47	100	B0048882

Project: Van Horne

Hole Number: VH20-015

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						57.0	58.0	1	0.0025	2.5	0.25	42	104	B0048883
						58.0	59.0	1	0.0025	2.5	0.25	44	101	B0048884
						59.0	60.0	1	0.0025	8	0.25	44	95	B0048885
						60.0	61.0	1	0.0025	6	0.25	47	90	B0048886
						61.0	62.0	1	0.0025	5	0.25	41	82	B0048888
						62.0	63.0	1	0.0025	2.5	0.25	46	87	B0048889
						63.0	64.0	1	0.0025	2.5	0.25	48	87	B0048890
						64.0	65.0	1	0.0025	2.5	0.25	46	95	B0048891
						65.0	66.0	1	0.0025	5	0.25	48	92	B0048892
						66.0	67.0	1	0.0025	5	0.25	30	97	B0048893
						67.0	68.0	1	0.0025	2.5	0.25	57	95	B0048894
67.68	71.57	QV, QUARTZ VEIN	BANDED	FINE	LIGHT GREY	67.0	68.0	1	0.0025	2.5	0.25	57	95	B0048894
This is the possible location of the Redeemer vein. The vein(s) are hosted in a mafic volcanic unit. The zone is affected by strong pervasive chlorite alteration, strong pervasive silica alteration, and strong fracture-fill carbonate alteration. The host rock is a fine grain size and the quartz veins are a medium grain size. The host rock is a green-grey colour and the quartz veins are a light-grey to white colour. The host rock presents strong deformation in the form of a chlorite-defined strong foliation. The quartz veins present a banded texture at the vein-wall rock margin but a blocky texture at the centre of the vein. There is 2% disseminated pyrite, 4% blebby pyrite, 5% vein-fill pyrite in this section, and 1% vein-fill chalcopyrite.. There are some patches of almost semi-massive pyrite.						68.0	69.0	1	0.0025	6	0.25	55	94	B0048895
						69.0	69.6	0.6	0.045	2.5	0.25	42	97	B0048896
						69.6	70.1	0.5	0.743	2.5	0.25	102	58	B0048897
						70.1	70.65	0.55	0.196	5	0.25	21	49	B0048898
						70.65	71.15	0.5	1.275	5	0.25	44	48	B0048899
*Bigger veins in this unit see: At 69.0.82-69.99 m, a 17 thick quartz-carbonate-chlorite-tourmaline-pyrite vein. At 70.13-70.44, a 31 cm thick quartz-carbonate-tourmaline-chlorite-pyrite vein.						71.15	71.7	0.55	0.427	2.5	0.25	15	79	B0048900

Project: Van Horne

Hole Number: VH20-015

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
71.57	123	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	71.15	71.7	0.55	0.427	2.5	0.25	15	79	B0048900
Continuation of initial mafic volcanic unit.						71.7	72.2	0.5	0.29	6	0.25	11	45	B0048902
71.57-106.47 m: This section displays a massive texture with patches of hairline fractures that have been infilled with quartz and carbonate, these appear as hairline stringer-style veins. There are some ~1 cm thick quartz veins throughout this section. The host rock is affected by moderate pervasive chlorite and weak pervasive silica alteration. There is ~1.5% disseminated pyrite, 2-3% blebby pyrite, and 2% wispy pyrite.						72.2	73.0	0.8	0.048	2.5	0.25	7	55	B0048903
						73.0	74.0	1	0.023	2.5	0.25	5	107	B0048904
						74.0	75.0	1	0.01	6	0.25	3	94	B0048905
106.47-121.0 m: This section is affected by intense pervasive silica alteration. This section contains multiple >10 cm thick quartz veins. Some zones of this section have angular fragments of the host rock within silica-dominant zones, in other zones the silica alteration has produced a coarser grain-size. Carbonate is seen to infill ~1 cm by 1 cm vugs in the host rock. Sulfide content increases greatly in this section. There is 3% disseminated pyrite, and 2% blebby pyrite here.						75.0	76.0	1	0.0025	2.5	0.25	7	70	B0048906
						76.0	77.0	1	0.005	6	0.25	43	116	B0048907
						77.0	78.0	1	0.0025	7	0.25	56	107	B0048908
* Bigger veins in the previous section: At 106.64-107.17 m, a 53 cm thick irregular quartz-carbonate-chlorite-tourmaline-pyrite. At 109.11-109.19 m, an 8 cm thick quartz-carbonate-chlorite-pyrite vein.						78.0	79.0	1	0.009	2.5	0.25	53	101	B0048909
						79.0	80.0	1	0.012	2.5	0.25	244	143	B0048910
121-123 m: This section has the same alteration as the previous section, but an even greater increase in sulfides. There are silica-rich angular clasts/fragments randomly dispersed in this section. There is ~10% wispy/semi-massive pyrite, 4% blebby pyrite, and 3% disseminated pyrite here.						80.0	81.0	1	0.0025	2.5	0.25	20	48	B0048911
						81.0	82.0	1	0.0025	2.5	0.25	46	65	B0048912
						82.0	83.0	1	0.0025	2.5	0.25	5	56	B0048913
						83.0	84.0	1	0.0025	2.5	0.25	2	78	B0048914
						84.0	85.0	1	0.0025	2.5	0.25	8	94	B0048916
						85.0	86.0	1	0.0025	2.5	0.25	4	102	B0048917
						86.0	87.0	1	0.0025	2.5	0.25	7	85	B0048918
						87.0	88.0	1	0.0025	2.5	0.25	25	95	B0048919
						88.0	89.0	1	0.0025	2.5	0.25	18	87	B0048920
						89.0	90.0	1	0.0025	2.5	0.25	2	73	B0048921
						90.0	91.0	1	0.0025	2.5	0.25	47	100	B0048922
						91.0	92.0	1	0.0025	2.5	0.25	3	94	B0048924
						92.0	93.0	1	0.0025	2.5	0.25	9	94	B0048925
						105.47	106.47	1	0.0025	2.5	0.25	48	101	B0048926
						106.47	107.25	0.78	0.0025	2.5	0.25	6	65	B0048927
						107.25	108.0	0.75	0.0025	2.5	0.25	21	79	B0048928
						108.0	109.0	1	0.0025	2.5	0.25	17	87	B0048929
						109.0	110.0	1	0.0025	2.5	0.25	33	85	B0048930
						110.0	111.0	1	0.0025	2.5	0.25	51	99	B0048931
						111.0	112.0	1	0.0025	2.5	0.25	47	108	B0048932
						112.0	113.0	1	0.006	2.5	0.25	72	94	B0048933

Project: Van Horne

Hole Number: VH20-015

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						113.0	114.0	1	0.007	2.5	0.25	91	96	B0048934
						114.0	115.0	1	0.007	2.5	0.25	79	117	B0048935
						115.0	116.0	1	0.0025	2.5	0.25	77	149	B0048936
						116.0	117.0	1	0.006	2.5	0.25	40	151	B0048938
						117.0	118.0	1	0.008	2.5	0.25	102	189	B0048939
						118.0	119.0	1	0.005	2.5	0.25	76	213	B0048940
						119.0	120.0	1	0.0025	2.5	0.25	29	278	B0048941
						120.0	121.0	1	0.005	2.5	0.25	18	256	B0048942
						121.0	121.5	0.5	0.006	2.5	0.25	15	196	B0048943
						121.5	122.0	0.5	0.007	2.5	0.5	58	640	B0048944
						122.0	122.5	0.5	0.016	2.5	0.7	166	2,120	B0048945
						122.5	123.0	0.5	0.019	2.5	0.6	87	1,025	B0048946

Project: Van Horne

Hole Number: VH20-015

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
123	150	MVCL, MAFIC VOLCANICLASTIC	FOLIATED	FINE	DARK GREY	123.0	123.5	0.5	0.0025	2.5	0.25	27	505	B0048947
Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate carbonate pervasive, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. There is 1% disseminated pyrite, 2% blebby pyrite, 3% wispy pyrite, and occasional patches of semi-massive pyrite.														
123-133.7 m: This section is affected by strong pervasive silica alteration (a slight decreases from the section(s) above). It presents a "clastic"/"brecciated" texture, with silica-rich angular clasts/fragments randomly dispersed. There is ~10% disseminated pyrite, 7% massive pyrite, 7% fracture-fill/wispy pyrite, and 3% blebby pyrite here.														
133.7-150.0 m: Clasts are sized 0.5-1 cm wide by 1-2 cm long. There are random silica-rich angular clasts within this section. There is a strong foliation elongating clasts. This section is affected by moderate silica alteration and moderate carbonate alteration infilling clasts. There is 1% disseminated pyrite, 2% blebby pyrite, 3% wispy pyrite, and occasional patches of semi-massive pyrite.														
						123.5	124.0	0.5	0.0025	2.5	0.25	8	388	B0048948
						124.0	124.5	0.5	0.0025	2.5	0.25	8	292	B0048949
						124.5	125.0	0.5	0.0025	2.5	0.25	47	209	B0048951
						125.0	125.5	0.5	0.0025	2.5	0.6	71	153	B0048952
						125.5	126.0	0.5	0.0025	2.5	0.25	43	147	B0048953
						126.0	126.5	0.5	0.0025	2.5	0.25	16	241	B0048954
						126.5	127.0	0.5	0.006	2.5	0.7	133	200	B0048955
						127.0	127.5	0.5	0.02	2.5	1.2	205	208	B0048956
						127.5	128.0	0.5	0.016	2.5	1.5	395	380	B0048957
						128.0	128.5	0.5	0.005	2.5	0.8	197	352	B0048958
						128.5	129.0	0.5	0.005	2.5	0.8	128	224	B0048959
						129.0	130.0	1	0.0025	2.5	1.2	192	186	B0048960
						130.0	131.0	1	0.005	2.5	1	156	170	B0048961
						131.0	132.0	1	0.0025	2.5	0.25	36	89	B0048962
						132.0	133.0	1	0.0025	2.5	0.25	47	102	B0048964
						133.0	134.0	1	0.0025	2.5	0.7	87	150	B0048965
						134.0	135.0	1	0.0025	2.5	0.25	60	142	B0048966
						135.0	136.0	1	0.0025	2.5	0.5	104	109	B0048967
						136.0	137.0	1	0.0025	2.5	0.25	20	111	B0048968
						137.0	138.0	1	0.0025	2.5	0.25	11	143	B0048969
						138.0	139.0	1	0.0025	2.5	0.25	27	97	B0048970
						139.0	140.0	1	0.0025	2.5	0.25	23	108	B0048971
						140.0	141.0	1	0.0025	2.5	0.25	32	97	B0048972
						141.0	142.0	1	0.0025	2.5	0.25	13	99	B0048973
						142.0	143.0	1	0.0025	2.5	0.25	15	85	B0048974
						143.0	144.0	1	0.0025	2.5	0.25	20	73	B0048975
						144.0	145.0	1	0.0025	2.5	0.25	27	123	B0048977
						145.0	146.0	1	0.0025	2.5	0.25	32	118	B0048978
						146.0	147.0	1	0.0025	2.5	0.25	29	119	B0048979
						147.0	148.0	1	0.0025	2.5	0.25	34	130	B0048980

Project: Van Horne								Hole Number: VH20-015						
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
						148.0	149.0	1	0.0025	2.5	0.25	15	133	B0048981
						149.0	150.0	1	0.0025	2.5	0.25	43	167	B0048982

Project: Van Horne

Hole Number: VH20-016

Drill Hole

Prospect: VH-REDEEMER **Operator:** KGC EXPLORATION
Year: 2020 **Geologist:** Lauren Norenberg
Hole Size: NQ **Casing Depth:** 6
Orient: ACT III **EOH:** 94
Hole Status: COMPLETE **Logged Depth:** 94

Drilling

Start Date: Sep-24-2020
End Date: Sep-24-2020
Drill Company: Major Drilling

Coordinates

Survey Method: HANDHELD GPS
Grid: NAD83 / UTM zone 15N
Easting: 509,036
Northing: 5,507,162
Elevation: 394

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	6.27	OB, OVERBURDEN												
6.27	21.56	FD, FELSIC DYKE	PORPHYRITIC	COARSE	LIGHT GREY	6.27	7.0	0.73	0.0025	2.5	0.25	15	48	B0048983
Felsic dike/intrusion or possible quartz porphyry. Intense pervasive silica alteration, with moderate fracture-fill ankerite alteration. Unit is coarse grain, and light grey-pink in colour. There is moderate-strong deformation visible in this unit, as there is a dark-grey/black fabric (presumably biotite or magnetite) that is pervasive through the unit and defines foliation. There is 0.5-1% disseminated pyrite here.						7.0	8.0	1	0.0025	2.5	0.25	9	38	B0048984
						8.0	9.0	1	0.006	2.5	0.25	13	36	B0048985
						9.0	10.0	1	0.0025	2.5	0.25	9	39	B0048986
						10.0	11.0	1	0.0025	2.5	0.25	9	32	B0048987
						11.0	12.0	1	0.0025	2.5	0.25	13	24	B0048988
						12.0	13.0	1	0.0025	2.5	0.25	11	41	B0048989
						13.0	14.0	1	0.0025	2.5	0.25	11	35	B0048990
						14.0	15.0	1	0.0025	2.5	0.25	9	30	B0048991
						15.0	16.0	1	0.0025	2.5	0.25	8	31	B0048992
						16.0	17.0	1	0.0025	2.5	0.25	9	30	B0048993
						17.0	18.0	1	0.0025	2.5	0.25	5	26	B0048995
						18.0	19.0	1	0.0025	2.5	0.25	5	26	B0048996
						19.0	20.0	1	0.0025	2.5	0.25	10	28	B0048997
						20.0	21.0	1	0.0025	2.5	0.25	13	30	B0048998
						21.0	21.56	0.56	0.0025	2.5	0.25	33	20	B0048999

Project: Van Horne							Hole Number: VH20-016							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
21.56	58.17	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	51.0	52.0	1	0.0025	2.5	0.25	7	86	B0049000
<p>Mafic volcanic unit. Strong pervasive silica, moderate pervasive chlorite alteration, with moderate fracture-fill carbonate alteration. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are patches of 0.5-1 cm thick quartz-carbonate stringer vein stockworks. There is approximately 1% disseminated pyrite and 1% blebby pyrite.</p> <p>This unit appears to be mafic volcanic, but could be considered intermediate volcanic if compared to Redeemer's East side holes (more siliceous mafic volcanic at Redeemer West).</p>						52.0	53.0	1	0.0025	2.5	0.25	5	82	B0049002
						53.0	54.0	1	0.0025	2.5	0.25	8	58	B0049003
						54.0	55.0	1	0.0025	2.5	0.25	8	76	B0049004
						55.0	56.0	1	0.005	2.5	0.25	8	74	B0049005
						56.0	57.0	1	0.008	2.5	0.25	23	104	B0049006
						57.0	58.0	1	0.009	2.5	0.25	51	105	B0049007
						58.0	58.5	0.5	1.11	2.5	0.7	35	130	B0049008
						58.17	62.4	QV, QUARTZ VEIN	BANDED	MEDIUM	LIGHT GREY	58.0	58.5	0.5
<p>This is the possible location of the Redeemer vein. The vein(s) are hosted in the mafic volcanic unit. The zone is affected by strong pervasive chlorite alteration, strong pervasive silica alteration, and strong fracture-fill carbonate alteration. The host rock is a fine grain size and the quartz veins are a medium grain size. The host rock is a green-grey colour and the quartz veins are a light-grey to white colour. The host rock presents strong deformation in the form of a chlorite-defined strong foliation. The quartz veins present a banded texture at the vein-wall rock margin but a blocky texture at the centre of the vein. There is 2% disseminated pyrite, 2% blebby pyrite, 3% fracture-fill pyrite in this section, and 1% vein-fill chalcopyrite.</p>						58.5	59.0	0.5	0.336	2.5	0.25	24	34	B0049009
						59.0	59.5	0.5	0.018	2.5	0.25	9	44	B0049010
						59.5	60.0	0.5	0.04	2.5	0.25	9	75	B0049011
						60.0	60.5	0.5	0.05	2.5	0.25	41	80	B0049012
						60.5	61.0	0.5	0.013	2.5	0.25	19	76	B0049013
						61.0	61.65	0.65	0.804	2.5	0.25	5	49	B0049014
						61.65	62.4	0.75	0.011	2.5	0.25	6	56	B0049016
						62.4	77.17	MV, MAFIC VOLCANIC	MASSIVE	FINE	DARK GREY	62.4	63.0	0.6
<p>Continuation of original mafic volcanic unit in this hole. All same.</p>						63.0	64.0	1	0.012	2.5	0.25	8	109	B0049018
						64.0	65.0	1	0.0025	2.5	0.25	13	131	B0049019
						65.0	66.0	1	0.005	2.5	0.25	6	95	B0049020
						66.0	67.0	1	0.0025	2.5	0.25	3	83	B0049021
						77.17	94	MVCL, MAFIC VOLCANICLASTIC	FOLIATED	FINE	DARK GREY			
<p>Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate carbonate pervasive, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. Clasts are sized 0.5-1 cm wide by 1-2 cm long. There is 1% disseminated pyrite, 2% blebby pyrite, and 1% wispy pyrite.</p>														

Project: Van Horne

Hole Number: VH20-017

Drill Hole				Drilling			Coordinates			
Prospect:	VH-REDEEMER	Operator:	KGC EXPLORATION	Start Date:	Sep-25-2020	Survey Method:	HANDHELD GPS			
Year:	2020	Geologist:	Lauren Norenberg	End Date:	Sep-25-2020	Grid:	NAD83 / UTM zone 15N			
Hole Size:	NQ	Casing Depth:	6	Drill Company:	Major Drilling	Easting:	509,091			
Orient:	ACT III	EOH:	82			Northing:	5,507,163			
Hole Status:	COMPLETE	Logged Depth:	82			Elevation:	387			

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	6.29	OB, OVERBURDEN												
6.29	16.92	MV, MAFIC VOLCANIC	MASSIVE	FINE	GREEN-GREY	16.0	16.92	0.92	0.0025	2.5	0.25	17	126	B0049022
Mafic volcanic unit. Moderate pervasive chlorite alteration, moderate fracture-fill carbonate alteration, with weak pervasive silica alteration. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are patches of 0.5-1 cm thick quartz-carbonate stringer vein stockworks. There is approximately 1% disseminated pyrite and 1% blebby pyrite.														
16.92	19.22	MVCL, MAFIC VOLCANICLASTIC	VUGGY	FINE	GREY	16.92	18.0	1.08	0.0025	2.5	0.25	16	127	B0049023
Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate pervasive carbonate, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. Clasts are sized 0.5-1 cm wide by 1-2 cm long. There is 1% disseminated pyrite, 2% blebby pyrite, and 1% wispy pyrite.														
19.22	25.82	MV, MAFIC VOLCANIC	AMYGDALOIDAL	FINE	DARK GREY	19.22	20.0	0.78	0.0025	2.5	0.25	7	138	B0049026
Mafic volcanic unit. Strong pervasive silica alteration, moderate fracture-fill carbonate alteration, with weak pervasive chlorite alteration. Unit is medium-coarse grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are patches of 0.5-1 cm thick quartz-carbonate stringer vein stockworks. There are many 0.3 cm by 0.3 cm carbonate-filled vugs/amygdules. There is approximately 1% disseminated pyrite and 1% blebby pyrite.														
						20.0	21.0	1	0.0025	2.5	0.25	53	114	B0049027
						21.0	22.0	1	0.0025	2.5	0.25	56	110	B0049028
						22.0	23.0	1	0.0025	2.5	0.25	45	132	B0049030
						23.0	24.0	1	0.0025	2.5	0.25	32	134	B0049031
						24.0	25.0	1	0.005	2.5	0.25	26	100	B0049032
						25.0	25.82	0.82	0.0025	2.5	0.25	23	102	B0049033
25.82	30.66	MVCL, MAFIC VOLCANICLASTIC	POLYMICITIC	FINE	GREY	25.82	27.0	1.18	0.0025	2.5	0.25	21	101	B0049034
Mafic volcanoclastic unit. Moderate-strong pervasive silica and moderate pervasive carbonate, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-definite foliation and elongated clasts. Clasts are sized 0.5-1 cm wide by 1-2 cm long. There is 1% disseminated pyrite, 2% blebby pyrite, and 1% wispy pyrite.														
						27.0	28.0	1	0.0025	2.5	0.25	20	129	B0049035
						28.0	29.0	1	0.0025	2.5	0.5	23	113	B0049036
						29.0	30.0	1	0.0025	2.5	0.25	69	117	B0049037
						30.0	31.0	1	0.0025	2.5	0.5	76	154	B0049038

Project: Van Horne						Hole Number: VH20-017								
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
30.66	63.14	MV, MAFIC VOLCANIC	MASSIVE	FINE	GREY	30.0	31.0	1	0.0025	2.5	0.5	76	154	B0049038
Mafic volcanic unit. Moderate pervasive chlorite alteration, moderate fracture-fill carbonate alteration, with moderate-strong pervasive silica alteration. Unit is fine grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There are patches of 0.5-1 cm thick quartz-carbonate stringer vein stockworks. There is approximately 1.5% disseminated pyrite and 2% blebby pyrite.						31.0	31.66	0.66	0.0025	2.5	0.25	5	97	B0049039
						61.0	62.0	1	0.0025	2.5	0.25	49	149	B0049040
						62.0	63.0	1	0.01	2.5	0.25	9	92	B0049041
*Silica alteration begins to intensify around 55.5 m (~7 m before Redeemer Vein Zone).						63.0	64.0	1	0.185	26	0.25	17	33	B0049042
63.14	66.85	QV, QUARTZ VEIN	BANDED	FINE	LIGHT GREY	63.0	64.0	1	0.185	26	0.25	17	33	B0049042
This is the possible location of the Redeemer vein. The vein(s) are hosted in the mafic volcanic unit. The zone is affected by strong pervasive chlorite alteration, intense pervasive silica alteration, and strong fracture-fill carbonate alteration. The host rock is a fine grain size and the quartz veins are a medium grain size. The host rock is a green-grey colour and the quartz veins are a light-grey to white colour. The host rock presents strong deformation in the form of a chlorite-defined strong foliation. The quartz veins present a banded texture at the vein-wall rock margin but a blocky texture at the centre of the vein. There is 2% disseminated pyrite, 3% blebby pyrite, 3% fracture-fill pyrite in this section, and 1% vein-fill chalcopyrite.						64.0	65.0	1	0.035	14	0.25	23	11	B0049044
						65.0	66.0	1	1.115	19	0.25	28	38	B0049045
						66.0	66.85	0.85	0.205	6	0.25	25	86	B0049046
66.85	77	MV, MAFIC VOLCANIC	BLEACHED	FINE	LIGHT GREY	66.85	67.35	0.5	0.009	2.5	0.25	51	119	B0049047
Mafic volcanic unit. Intense pervasive silica alteration, strong pervasive carbonate alteration, with moderate pervasive sericite alteration. Unit is medium-coarse grain, and dark grey in colour. Overall, the unit displays weak-moderate deformation, foliation is hard to observe in this massive unit. There is approximately 2% disseminated pyrite and 2% blebby pyrite.						67.35	68.0	0.65	0.005	2.5	0.5	52	115	B0049048
						68.0	69.0	1	0.0025	2.5	0.5	43	109	B0049049
This unit is an intense silica alteration halo surrounding the Redeemer Vein Zone.						69.0	70.0	1	0.0025	2.5	0.25	13	58	B0049050
						70.0	71.0	1	0.008	2.5	0.25	8	38	B0049051
						71.0	72.0	1	0.0025	2.5	0.25	23	119	B0049052
						72.0	73.0	1	0.0025	2.5	0.25	54	114	B0049053
						73.0	74.0	1	0.005	2.5	0.25	26	99	B0049054
						74.0	75.0	1	0.0025	2.5	0.25	39	88	B0049055
						75.0	76.0	1	0.01	2.5	0.25	44	74	B0049056
						76.0	77.0	1	0.007	2.5	0.25	45	100	B0049058
77	82	MVCL, MAFIC VOLCANICLASTIC	POLYMIC TIC	FINE	GREY	77.0	78.0	1	0.005	2.5	0.25	8	103	B0049059
Mafic volcaniclastic unit. Strong pervasive silica and moderate pervasive carbonate, with weak pervasive chlorite alteration. Unit is dark grey in colour and has a fine grain size. The unit presents strong deformation in the form of a chlorite-defined foliation and elongated clasts. Clasts are sized 0.5-1 cm wide by 1-2 cm long. There is 1% disseminated pyrite, 2% blebby pyrite, and 1% wispy pyrite.						78.0	79.0	1	0.0025	2.5	0.25	12	110	B0049060
						79.0	80.0	1	0.0025	2.5	0.25	12	100	B0049061
						80.0	81.0	1	0.0025	2.5	0.25	11	97	B0049062

Project: Van Horne

Hole Number: VH20-018

Drill Hole

Prospect: VH-VANLAS Operator: KGC EXPLORATION
 Year: 2020 Geologist: THOMAS CLARK
 Hole Size: NQ Casing Depth: 4
 Orient: ACT III EOH: 136
 Hole Status: COMPLETE Logged Depth: 136

Drilling

Start Date: Sep-28-2020
 End Date: Sep-29-2020
 Drill Company: Major Drilling

Coordinates

Survey Method: HANDHELD GPS
 Grid: NAD83 / UTM zone 15N
 Easting: 505,862
 Northing: 5,508,294
 Elevation: 373

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	4.05	OB, OVERBURDEN												
4.05	31.26	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	4.27	5.0	0.73	0.091	2.5	0.25	30	79	B0049063
		Intermediate volcanoclastic unit, weak - moderate deformation, light grey- grey colour. From 4.05 - 6.5 m unit looks similar to a intermediate volcanic unit. From 7 - 12.84 m, the unit has intense silica, moderate patchy carbonate 1% disseminated pyrite. From 12.84 - 31.26 m moderate pervasive silica, weak pervasive carbonate and 0.5% disseminated pyrite with small patches of 1-2% blebby pyrite.				5.0	6.0	1	0.049	2.5	0.25	10	94	B0049064
		Few large veins at the start of the hole, 4.67 - 4.73, 4.85 - 4.91 and 5.53 - 5.63 m, these veins show 2-5 % blebby pyrite, qtz-carb-tourm and seem to trend the same. The rest of the unit shows few stringer veins with null - trace sulphides.				6.0	7.0	1	0.009	2.5	0.25	19	117	B0049065
						7.0	8.0	1	0.0025	2.5	0.25	42	186	B0049066
						8.0	9.0	1	0.0025	2.5	0.25	34	220	B0049067
						9.0	10.0	1	0.0025	2.5	0.25	69	194	B0049068
31.26	39.25	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	DARK GREY									
		Mafic volcanic unit (High mag, magnetic, dark grey) massive texture with subtle deformation and subtle alteration. This unit shows subtle pervasive silica alteration and trace disseminated pyrite.												
		The unit has few stringer veins, showing null - trace sulphides and 1-3 cm qtz-carb veins with 0.5 - 1% blebby pyrite. None of interest.												
39.25	81.11	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	LIGHT GREY	79.0	79.86	0.86	0.0025	2.5	0.25	50	122	B0049069
		Intermediate volcanoclastic unit, weak - moderate deformation, less deformed than the previous IVCL unit; clasts within this unit are rounded and slightly elongated. Clasts follow a moderate foliation. The unit has moderate pervasive silica, moderate carbonate alteration and trace disseminated pyrite.				79.86	80.5	0.64	0.0025	5	0.25	29	99	B0049070
		The unit has few stringer veins with null - trace sulphides and few 1-4 cm qtz-carb veins with null sulphides.				80.5	81.11	0.61	1.485	10	0.25	30	73	B0049072
		From 63.26 - 64.30 m the unit has a small section of increased alteration along a small shear fracture, moderate - strong silica and moderate hematite alteration is present, trace blebby pyrite is also present. (I would sample this if we weren't being stricter).												
		From 79.86 - 81.11 m a small alteration zone surrounding the lower IVCL / MV contact is present, 1-3 cm irregular qtz-carb-tour veins are present, along with strong pervasive silica, moderate pervasive sericite, weak patchy carbonate and weak fracture-fill tourmaline. The unit shows 3% blebby pyrite, 1% fracture-fill pyrite and 0.5% blebby chalcopyrite.												

Project: Van Horne								Hole Number: VH20-018						
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From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
81.11	136	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREEN-GREY	81.11	82.0	0.89	0.007	2.5	0.25	19	56	B0049073

Mafic volcanic (magnetic, mag high, green tinge from chlorite alt.) showing massive texture, weak deformation (small zones of moderate deformation) and very fine groundmass with feldspar phenocrysts throughout most of the unit.

From 81.11 - 83.6 m a small alteration zone surrounding the IVCL and MV contact, strong pervasive silica, moderate pervasive carbonate alteration and 0.5% disseminated pyrite are present.

From 83.6 - 117.6 and 121 - 126 m, the unit shows moderate pervasive chlorite, and weak pervasive silica alteration is present, along with 0.5% disseminated pyrite.

117.6 - 121 m shows subtle pervasive silica alteration, few small stringers with null sulphides and 0.5% disseminated pyrite. Small rubble zone within this section is also present. 126 - 136 m is similar but with weak pervasive silica alteration, weak patchy carbonate and one vein from 127.50 - 127.61 m, qtz-carb vein with 0.5% disseminated pyrite within vein margins and surrounding host rock.

Project: Van Horne	Hole Number: VH20-019
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Drill Hole		Drilling		Coordinates	
Prospect: VH-VANLAS	Operator: KGC EXPLORATION	Start Date: Sep-29-2020	Survey Method: HANDHELD GPS	Grid: NAD83 / UTM zone 15N	
Year: 2020	Geologist: THOMAS CLARK	End Date: Sep-30-2020	Drill Company: Major Drilling	Easting: 505,924	
Hole Size: NQ	Casing Depth: 6			Northing: 5,508,299	
Orient: ACT III	EOH: 108			Elevation: 388	
Hole Status: COMPLETE	Logged Depth: 108				

Comments: Hole cemented to 30m

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	6.03	OB, OVERBURDEN												

6.03	35.61	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY									
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Intermediate volcanoclastic unit, moderately deformed with rounded clasts slightly elongated, grey colour and fine grained. The unit has moderate pervasive silica and weak patchy carbonate alteration throughout the unit, with a small patch of intense pervasive silica and strong pervasive carbonate alteration at 7.83 - 9 m. At 21.27 m - 21.68 and 30.16 - 30.6 m there is small patches of shear material and increased alteration of strong pervasive sericite. There is a sharp contact between the IVCL and mafic volcanic (possible intrusion).

The unit has 0.5% disseminated pyrite throughout, and few qtz-carb stringer veins and few larger 1-3 cm qtz-carb discontinuous veins.

PCEdit(21.27-21.68 - 10% Gouge material), (30.16-30.6 - Rubble Zone).

35.61	39.91	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	DARK GREY									
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Mafic volcanic (possible intrusion) sharp upper and lower contact between an IVCL unit, both contacts bound by small qtz-carb veins with null - trace sulphides. Unit has very weak deformation, very fine grained dark grey ground mass and is slightly magnetic. Unit shows subtle pervasive silica alteration.

The unit has two large horizontal qtz-carb veins, showing trace blebby pyrite within the quartz margins.

Overall the unit does not show any sulphides.

Project: Van Horne

Hole Number: VH20-019

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
39.91	67.09	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	64.0	65.0	1	0.0025	6	0.25	59	103	B0049074
Intermediate volcanoclastic unit, exact same as 6.03 - 35.61m. Rounded clasts, slightly elongated along a foliation, The alteration is similar, moderate pervasive silica, subtle hematite staining throughout the unit and moderate - strong patchy carbonate. alteration. Overall the unit shows 1% disseminated pyrite, with slightly increased mineralization near the two contacts.						65.0	66.0	1	0.0025	2.5	0.25	50	100	B0049075
The unit has few relict qtz-carb veins with 0.5% disseminated pyrite and few qtz-carb stringers with no sulphides.						66.0	66.5	0.5	0.0025	6	0.25	52	77	B0049076
From 58.24 m - 60.62 m a small mafic volcanic unit is present, similar to 35.61 - 39.91, massive texture, moderate deformation, moderate pervasive silica, weak patchy carbonate and weak patchy chlorite.						66.5	67.09	0.59	0.0025	6	0.25	62	111	B0049077
60.62 m there is a small shear fracture, a small rubble zone and the switch back into the IVCL unit. This ivcl unit has smaller rounded clasts with random orientation. Same mineralization and alteration as previous unit.														
At 67.09 the unit switches to the large deformation / alteration zone within the IVCL unit.														
67.09	72.91	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	CREAM	67.09	67.78	0.69	0.005	9	0.25	59	92	B0049078
Alteration zone, IVCL unit with intense alteration and deformation. Colour ranges from grey - pink - cream, mostly coming from the potassic alteration. This unit has moderate - strong pervasive silica, moderate - intense potassic and weak pervasive carbonate alteration with small patches of weak pervasive silica in the relatively unaltered IVCL section; ankerite alteration is also present within small patches of this section.						67.78	68.68	0.9	0.0025	2.5	0.25	62	138	B0049080
From 67.09 - 67.78 is the first alteration zone; moderate - strong pervasive silica, moderate - intense potassic and weak pervasive carbonate alteration. This unit shows 1% disseminated pyrite.						68.68	69.18	0.5	0.01	5	0.25	37	73	B0049081
From 67.78 - 68.68 m the same relatively unaltered IVCL unit is found. This unit shows 0.5% disseminated pyrite.						69.18	70.0	0.82	2.31	10	1.1	14	40	B0049082
From 68.68 - 72.91 m the second alteration zone is present, similar to the first one, but with the addition of moderate fracture-fill chlorite within the breccia texture that is present. The breccia texture is found mostly past 70.2 m. Within this unit is 3% fracture-fill pyrite, 1% disseminated pyrite and 0.5% blebby pyrite with more found in the veins.						70.0	71.0	1	0.209	7	0.25	12	41	B0049083
The unit has several qtz-carb-chlor-pott veins, but mainly three notable veins at 67.33 - 67.36, 68.88 - 68.92 and 69.80 - 69.83 m.						71.0	72.0	1	0.059	5	0.25	5	56	B0049084
67.33 - 67.36 shows strong silica and potassic alteration along with trace disseminated pyrite.						72.0	72.91	0.91	5.57	11	0.7	7	60	B0049085
68.88 - 68.92 m shows strong potassic, strong silica and moderate pervasive carbonate alteration along with 1% blebby pyrite.														
69.8 - 69.83 m shows intense pervasive silica, weak pervasive sericite and weak pervasive carbonate; the vein also has fracture-fill tourmaline within the vein and surrounding host rock, the host rock being similar to a breccia texture. This vein shows 4% vein-fill pyrite and 1% disseminated pyrite within the vein and surrounding host rock.														
72.91	84	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY	72.91	74.0	1.09	0.043	2.5	0.25	11	77	B0049086
Mafic volcanic unit, similar to previous MV unit 35.61 - 39.91. Unit shows moderate pervasive silica, subtle patchy carbonate and weak patchy silica alteration. Unit is massive, moderately deformed and has a very fine grain size, the silica alteration turns it to a light grey. Overall the unit shows 0.5% disseminated pyrite.						76.0	77.0	1	0.026	2.5	0.25	26	47	B0049087
At 76.40 - 76.45 and 76.48 - 76.49 m, a small quartz vein set with intense iron carbonate and chlorite alteration, also showing 2 % blebby pyrite.						77.0	78.0	1	0.884	6	0.25	19	38	B0049088
77.54 - 77.79 m large qtz-carb-chlor vein, 2% blebby pyrite						78.0	79.0	1	0.019	2.5	0.25	7	57	B0049089
						83.0	84.0	1	0.011	5	0.25	31	115	B0049090

Project: Van Horne							Hole Number: VH20-019							
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
84	91.06	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	LIGHT GREY	84.0	85.0	1	2.34	19	0.6	160	90	B0049091
Mafic volcanic alteration zone, deformation is strong with increased alteration from the previous unit.						85.0	86.0	1	0.27	11	0.25	32	93	B0049092
From 84 - 86 m, the unit shows strong pervasive potassic, strong pervasive silica and weak patchy chlorite alteration. The unit has 4% blebby pyrite, 1% disseminated pyrite and 1% vein-fill pyrite; This section has many qtz-chlor-tour stringer veins with 1% vein-fill pyrite.						86.0	87.0	1	0.181	12	0.25	109	93	B0049094
86 - 88.05 m, this unit is a weakly deformed and altered MV; subtle patchy carbonate and subtle patchy silica, with few qtz-carb stringer veins and 1% blebby pyrite. 87.07 - 87.11 m shows a small qtz-carb-chlor vein with 2% blebby pyrite within the margins. Overall the unit has 1% blebby pyrite.						87.0	88.0	1	0.416	6	0.25	13	87	B0049095
86 - 88.05 m, this unit is a weakly deformed and altered MV; subtle patchy carbonate and subtle patchy silica, with few qtz-carb stringer veins and 1% blebby pyrite. 87.07 - 87.11 m shows a small qtz-carb-chlor vein with 2% blebby pyrite within the margins. Overall the unit has 1% blebby pyrite.						88.0	89.0	1	0.627	5	0.25	10	62	B0049096
88.05 - 89.61 m there is a second alteration zone, intense pervasive silica, moderate fracture-fill chlorite and weak fracture-fill ankerite alteration is present, along with 3% blebby pyrite, 2% vein-fill pyrite and 0.5% disseminated pyrite. This unit also has a large vein from 88.42 - 88.52 m, with 3% blebby pyrite within the vein and surrounding host rock. This zone has a breccia texture.						89.0	90.0	1	0.542	5	0.25	42	115	B0049097
88.05 - 89.61 m there is a second alteration zone, intense pervasive silica, moderate fracture-fill chlorite and weak fracture-fill ankerite alteration is present, along with 3% blebby pyrite, 2% vein-fill pyrite and 0.5% disseminated pyrite. This unit also has a large vein from 88.42 - 88.52 m, with 3% blebby pyrite within the vein and surrounding host rock. This zone has a breccia texture.						90.0	91.0	1	0.299	5	0.25	41	93	B0049098
89.61 - 91.06 m a less altered zone of MV, moderate pervasive silica, weak patchy carbonate and weak fracture-fill chlorite. From 90.16 - 90.46 m, a qtz-carb-chlor vein set shows 5% blebby pyrite within the surrounding host rock and vein margins. This unit overall shows 2% blebby pyrite and is the end of the zone.						91.0	92.0	1	0.007	2.5	0.25	47	112	B0049099
91.06	108	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREY	91.0	92.0	1	0.007	2.5	0.25	47	112	B0049099
Weakly deformed and altered MV unit, massive in texture, grey in colour, very fine grain size. Unit shows weak pervasive silica and subtle fracture-fill chlorite alteration. Unit is similar to other end of hole units, showing areas with feldspar phenocrysts. Overall this unit shows trace disseminated pyrite.						98.0	99.0	1	1.345	5	0.25	24	78	B0049100
From 98.71 - 98.84 m, there is a qtz-carb-chlor-hematite vein showing 6% blebby pyrite along the margins and host rock; from 99.57 - 99.75 m there is a qtz-carb-hem vein set with 4% blebby pyrite and 1% disseminated pyrite, along with weak fracture-fill chlorite breccia texture inbetween the veins and as a small halo surrounding the veins.						99.0	100.0	1	0.208	2.5	0.25	10	71	B0049101

Project: Van Horne

Hole Number: VH20-020

Drill Hole

Prospect: VH-VANLAS
Year: 2020
Hole Size: NQ
Orient: ACT III
Hole Status: COMPLETE
Operator: KGC EXPLORATION
Geologist: THOMAS CLARK
Casing Depth: 13
EOH: 92
Logged Depth: 92

Drilling

Start Date: Sep-30-2020
End Date: Oct-01-2020
Drill Company: Major Drilling

Coordinates

Survey Method: HANDHELD GPS
Grid: NAD83 / UTM zone 15N
Easting: 505,952
Northing: 5,508,272
Elevation: 385

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	13.41	OB, OVERBURDEN												

13.41	19.82	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY									
<p>Intermediate volcanoclastic top of hole unit. Clasts are rounded and slightly elongated along a foliation, deformation is weak, alteration is minimal with weak pervasive silica and moderate patchy carbonate. Overall the unit shows 0.5% disseminated pyrite.</p>														

19.82	25.47	MV, MAFIC VOLCANIC	BLOCKY	VERY FINE	GREY									
<p>Mafic volcanic unit, strong deformation, mostly blocky / rubbly core. Alteration throughout the unit is mostly weak, and few areas show weak pervasive carbonate, weak pervasive ankerite and weak pervasive silica.</p> <p>Few qtz-carb veins are present with trace disseminated sulphides. None of interest.</p>														

25.47	36.09	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	31.5	32.0	0.5	0.0025	5	0.25	67	219	B0049102
<p>Intermediate volcanoclastic unit, moderate deformation and moderate alteration; moderate pervasive silica, moderate pervasive carbonate and weak fracture-fill chlorite. Alteration and deformation increases towards the shear fracture at 36.09 m. The unit has few qtz-carb veins, null sulphides. Overall the unit shows trace disseminated pyrite.</p>														
						32.0	33.0	1	0.0025	2.5	0.25	64	151	B0049103
						33.0	34.0	1	0.0025	2.5	0.25	44	90	B0049104
						34.0	35.0	1	0.0025	2.5	0.25	57	108	B0049105
						35.0	36.09	1.09	0.005	2.5	0.25	87	129	B0049106
<p>One vein at 32 - 32.05 qtz-carb-chlor vein shows 1% blebby chalcopyrite.</p>														

36.09	37.7	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	VERY FINE	RED-BROWN	36.09	37.05	0.96	0.015	5	0.25	42	109	B0049108
<p>Intermediate volcanoclastic alteration zone; strong deformation with red-brown - grey - buff colour. The unit shows weak pervasive potassic, moderate pervasive silica, weak pervasive sericite and weak patchy chlorite alteration. Unit still shows small amounts of clasts, and follows a foliation, the lower contact between this IVCL and MV is gradational and weak. A weak breccia with chlorite fracture-fill texture is present on the latter half of the unit. Overall this unit has trace disseminated pyrite.</p>														
<p>From 36.89 - 37.05 a qtz-carb-chlor-tour vein blowout is present, showing trace disseminated pyrite.</p>														

37.7	39.72	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREY	37.7	38.2	0.5	0.0025	2.5	0.25	7	73	B0049110
<p>A mafic volcanic unit between two alteration zones; this unit is mostly unaltered and undeformed. Subtle pervasive silica and subtle pervasive carbonate alteration present. Unit shows 0.5% blebby pyrite. Few qtz-carb stringer 0.1 - 0.5 cm are present.</p>														
						38.2	39.0	0.8	0.0025	2.5	0.25	10	77	B0049111
						39.0	39.72	0.72	0.0025	2.5	0.25	14	90	B0049112

Project: Van Horne

Hole Number: VH20-020

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
39.72	42.9	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREY	39.72	40.23	0.51	0.05	2.5	0.25	6	50	B0049113
Mafic volcanic alteration zone, moderate deformation, colours range from pink - grey - light grey.						40.23	41.0	0.77	0.219	2.5	0.25	18	59	B0049114
From 39.72 - 40.21 m, strong pervasive potassic, moderate fracture-fill chlorite and strong pervasive silica alteration is present; fracture-fill tourmaline is also present but mostly with the vein at 39.72 - 39.97 m. This unit shows 2% blebby pyrite and 0.5% vein-fill pyrite.						41.0	42.0	1	0.1	2.5	0.25	8	47	B0049115
40.21 - 42.9 m, the unit turns grey with strong pervasive silica, moderate fracture-fill chlorite, weak pervasive hematite and moderate pervasive carbonate alteration. The unit has few qtz-carb-chlor-tour veins, veins run from 42.55 - 42.90. The veins show 1% blebby pyrite, and weak hematite staining within them and the surrounding host rock. Past 40.21 m, a weak breccia texture is seen, with weak chlorite fracture-fill and 1% disseminated pyrite throughout the unit.						42.0	43.0	1	0.048	2.5	0.25	17	53	B0049116

Project: Van Horne

Hole Number: VH20-020

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
42.9	92	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREY	42.0	43.0	1	0.048	2.5	0.25	17	53	B0049116
Mafic volcanic unit, similar to previous MV unit but less altered. Alteration varies greatly throughout the unit but includes hematite staining, fracture-fill chlorite, silica and carbonate. Larger qtz-carb-chlor veins show 1-3% blebby pyrite while the smaller qtz-carb stringers show null - trace sulphides.						47.0	47.5	0.5	0.0025	2.5	0.25	30	101	B0049117
						47.5	48.0	0.5	0.407	2.5	0.25	53	63	B0049118
From 42.9 - 50.55 m, the unit shows weak pervasive silica, weak pervasive hematite and weak pervasive carbonate. This section is weakly deformed and shows a mostly massive texture. This section also shows 0.5% disseminated pyrite.						50.0	51.0	1	0.164	2.5	0.25	37	104	B0049119
						51.0	51.9	0.9	0.816	5	0.25	13	86	B0049120
From 50.55 - 54.16 m, same MV unit as previous but with more alteration and mineralization. Weak pervasive silica, moderate - strong pervasive hematite and weak patchy carbonate alteration. Overall this unit shows 1% blebby pyrite and 1% disseminated pyrite. Large qtz-carb-hem veins, 52 - 52.15 showing 2% blebby pyrite and 0.5% disseminated pyrite within surrounding margins.						51.9	53.0	1.1	0.406	2.5	0.25	19	78	B0049122
						53.0	54.0	1	0.011	2.5	0.25	9	84	B0049123
						54.0	55.0	1	0.018	2.5	0.25	11	89	B0049124
From 54.16 - 92 EOH m, massive, very fine grained mafic volcanic unit, feldspar phenocrysts found throughout, moderate pervasive chlorite, weak pervasive silica, moderate pervasive carbonate alteration throughout unit. Some qtz-carb-hem veins present, 55.37 - 55.50, 60.16 - 60.23, 60.81 - 60.95, 68.05 - 68.14, 76.91 - 76.97, 80.78 - 81.20, 82.38 - 82.46m. Overall this unit shows trace blebby pyrite, with increased mineralization around the veins.						55.0	56.0	1	0.378	2.5	0.25	41	113	B0049125
						56.0	57.0	1	0.105	2.5	0.25	38	88	B0049126
						57.0	58.0	1	0.057	2.5	0.25	25	100	B0049127
Veins found at 55.37 - 55.50, 60.16 - 60.23, 60.81 - 60.95, 68.05 - 68.14 m are qtz-carb-chlor veins showing 1-2% blebby pyrite and weak fracture-fill tourmaline in most.						58.0	59.0	1	1.21	6	0.25	64	115	B0049128
						59.0	60.0	1	0.011	2.5	0.25	23	78	B0049129
Veins found from 76.91 - 76.97, 80.78 - 81.20, 82.38 - 82.46m are qtz-carb-chlor-hem veins which show 1-3% blebby pyrite, 1% disseminated pyrite and trace disseminated pyrrhotite.						60.0	61.0	1	0.345	2.5	0.25	19	69	B0049130
						61.0	62.0	1	0.028	2.5	0.25	10	95	B0049131
						68.0	69.0	1	2.28	7	0.25	90	94	B0049132
						76.5	77.5	1	0.337	5	0.25	87	88	B0049133
						77.5	78.0	0.5	0.007	2.5	0.25	34	109	B0049134
						79.0	80.0	1	0.013	2.5	0.25	50	113	B0049136
						80.0	80.5	0.5	0.02	2.5	0.25	55	118	B0049137
						80.5	81.5	1	1.31	7	0.25	38	135	B0049138
						81.5	82.0	0.5	0.044	2.5	0.25	32	141	B0049139
						82.0	83.0	1	0.046	2.5	0.25	28	148	B0049140
						83.0	84.0	1	0.317	5	0.25	39	210	B0049141

Project: Van Horne **Hole Number:** VH20-021

Drill Hole				Drilling			Coordinates				
Prospect:	VH-VANLAS	Operator:	KGC EXPLORATION	Start Date:	Oct-01-2020	Survey Method:	HANDHELD GPS				
Year:	2020	Geologist:	THOMAS CLARK	End Date:	Oct-03-2020	Grid:	NAD83 / UTM zone 15N				
Hole Size:	NQ	Casing Depth:	3	Drill Company:	Major Drilling	Easting:	505,909				
Orient:	ACT III	EOH:	231			Northing:	5,508,424				
Hole Status:	COMPLETE	Logged Depth:	231			Elevation:	393				

Comments: Hole cemented to 30m.

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
0	3.2	OB, OVERBURDEN												
3.2	14.7	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	9.0	10.0	1	0.159	6	0.25	29	163	B0049142
Intermediate volcanoclastic unit, varying sized clasts / random orientation, subrounded - rounded. Unit shows moderate deformation, increasing in areas of shear, (6.29 - 6.91 m). Alteration in this zone: Weak pervasive silica, moderate pervasive carbonate and weak pervasive ankerite (ankerite is moderate around shear material). Overall the unit shows 0.5% disseminated pyrite. Vein set from 9.61 - 9.98m a vein set showing 25 blebby pyrite, 1% vein-fill pyrite and trace disseminated pyrrhotite. Unit veins show qtz-carb-potassic-sericite.						10.0	11.0	1	0.009	2.5	0.25	8	158	B0049143
14.7	71.61	IV, INTERMEDIATE VOLCANIC	MASSIVE	VERY FINE	GREY	29.0	30.0	1	0.378	120	1.7	219		B0049144
14.7 - 46.82 Intermediate volcanic unit, weak deformation, weak alteration and very fine grain size. Alteration: Weak pervasive silica, moderate patchy carbonate. Few veins showing qtz-carb-potassic alteration and trace - 2% blebby pyrite. Veins from 19.99 - 20.05 and vein set 29.12 - 29.71 m, show 1% blebby pyrite and 2% vein-fill pyrite. Overall unit shows trace disseminated pyrite. 46.82 - 51 m, IV unit with strong deformation, various areas of shear material / fractures, moderate - strong pervasive ankerite, weak pervasive silica and weak patchy carbonate alteration. Unit shows 1% disseminated pyrite. Approximately 40% of the section is rubble / shear material. 51 - 71.61 m, IV unit similar to previous from 14.7 - 46.82, weak deformation, weak alteration, very fine grain size, qtz-carb stringers showing null sulphides throughout unit. Unit shows trace disseminated pyrite						30.0	31.0	1	0.015	21	0.25	40	629	B0049145
						31.0	32.0	1	0.009	19	0.25	27	1,275	B0049146
						46.82	48.0	1.18	0.0025	2.5	0.25	8	170	B0049147
						48.0	49.0	1	0.0025	2.5	0.25	4	107	B0049148
						49.0	50.0	1	0.0025	2.5	0.25	16	104	B0049150
						50.0	51.0	1	0.0025	2.5	0.25	31	147	B0049151

Project: Van Horne

Hole Number: VH20-021

From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
71.61	141.47	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	80.0	81.0	1	0.259	14	0.25	36	117	B0049152
Intermediate volcaniclastic unit with small volcanic units intermixed. 71.61 - 93.95 m, moderate deformation, clasts vary in size and orientation, most follow a foliation. Alteration: Moderate pervasive silica, moderate patchy carbonate and weak fracture-fill ankerite within small shear fractures in the unit. Overall the unit shows 1% disseminated pyrite; 1% blebby and 1% disseminated pyrite found within qtz-carb vein sets, 81.34 - 81.60 and 83.63 - 84 m. 93.95 - 103.47 IV unit similar as 14.7 - 46.82, weakly deformed, very fine grained, weak alteration. Alteration: weak pervasive silica, weak pervasive carbonate. Unit shows vein small qtz-carb-chlor veins at 95.39 - 95.4, 98.10 - 98.19 and 103.76 - 103.47 m. Overall the unit shows 2% blebby pyrite, 1% vein-fill pyrite and 1% disseminated pyrite; with increasing mineralization around the qtz-carb veins. 103.47 - 141.47. Intermediate volcaniclastic unit similar to starting IVCL unit in other vanlas holes. Clasts are relatively undeformed, rounded and following a slight foliation, weakly altered unit. Alteration: Moderate pervasive silica, subtle patchy carbonate and subtle patchy silica. Unit has several areas of silica blowout, and few qtz-carb veins. Overall the unit shows trace disseminated pyrite.														
						81.0	82.0	1	0.385	116	2.2	314	404	B0049153
						82.0	83.0	1	0.113	32	0.7	82	281	B0049154
						83.0	84.0	1	0.011	6	0.25	29	115	B0049155
						84.0	85.0	1	0.0025	6	0.25	10	144	B0049156
						95.0	96.0	1	0.091	53	0.8	113	1,990	B0049157
						96.0	97.0	1	0.01	32	0.6	21	395	B0049158
						97.0	98.0	1	0.022	82	0.6	21	331	B0049159
						98.0	99.0	1	19.95	36	14.5	1,770		B0049160
						103.0	104.0	1	0.034	17	0.5	104	2,320	B0049161
						104.0	105.0	1	0.019	2.5	0.5	64	245	B0049162
						140.0	140.97	0.97	0.007	2.5	0.25	14	86	B0049164
						140.97	141.47	0.5	2.72	7	0.25	21	82	B0049165
141.47	150.63	MV, MAFIC VOLCANIC	MASSIVE	VERY FINE	GREY	141.47	142.0	0.53	0.647	2.5	0.25	142	86	B0049166
Mafic volcanic unit with quartz vein alteration zone. Moderate deformation within unit, stronger deformation around qtz-carb-tour veins. Multiple qtz-carb-potassic-tourm veins within the unit, large vein / vein sets from 142.70 - 142.86, 144.14 - 144.21, 144.43 - 144.49, and 145.17 - 146.18 m. Each vein showing moderate pervasive carbonate, moderate fracture-fill tourmaline and weak-moderate pervasive potassic alteration. Veins 142.70 - 142.86, 144.14 - 144.21, 144.43 - 144.49 show 1-2% blebby pyrite and 0.5% disseminated pyrite. Vein from 145.17 - 146.18 m shows 5% blebby pyrite, 2% vein-fill pyrite and 1% disseminated pyrite. Alteration: moderate pervasive silica, weak patchy carbonate, weak pervasive chlorite. Overall the unit shows 1% blebby pyrite and 0.5% disseminated pyrite.														
						142.0	143.05	1.05	0.168	2.5	0.25	10	70	B0049168
						143.05	144.0	0.95	1.075	7	0.25	16	78	B0049169
						144.0	145.0	1	0.388	2.5	0.25	7	76	B0049170
						145.0	146.18	1.18	0.65	5	0.6	13	41	B0049171
						146.18	147.0	0.82	1.14	5	0.25	24	65	B0049172
						147.0	148.0	1	0.324	2.5	0.25	44	75	B0049173
						148.0	149.0	1	0.272	2.5	0.25	39	73	B0049174
						149.0	150.0	1	0.005	2.5	0.25	11	81	B0049175
150.63	205.52	IVCL, INTERMEDIATE VOLCANICLASTIC	FOLIATED	FINE	GREY	167.5	168.5	1	0.0025	2.5	0.25	4	84	B0049176
Intermediate volcaniclastic unit, clasts varying in size, more deformed than previous IVCL units. Clasts follow weak foliation and are more elongated than previous units. Unit has sparse areas of MV (massive, very fine grained, grey colour) within, too small to break out. Alteration: Moderate pervasive silica, moderate patchy carbonate, weak fracture-fill chlorite, weak patchy silica. Overall the unit shows trace disseminated pyrite. Unit has few qtz-carb stringers showing null - trace disseminated pyrite and few qtz-carb-chlor veins with 1-2% blebby pyrite (168.05 - 168.11, 203.09 - 203.15, 204.42 - 204.48 and 205.42 - 205.52 m).														
						188.0	189.0	1	0.0025	2.5	0.25	62	90	B0049177

Project: Van Horne

Hole Number: VH20-021

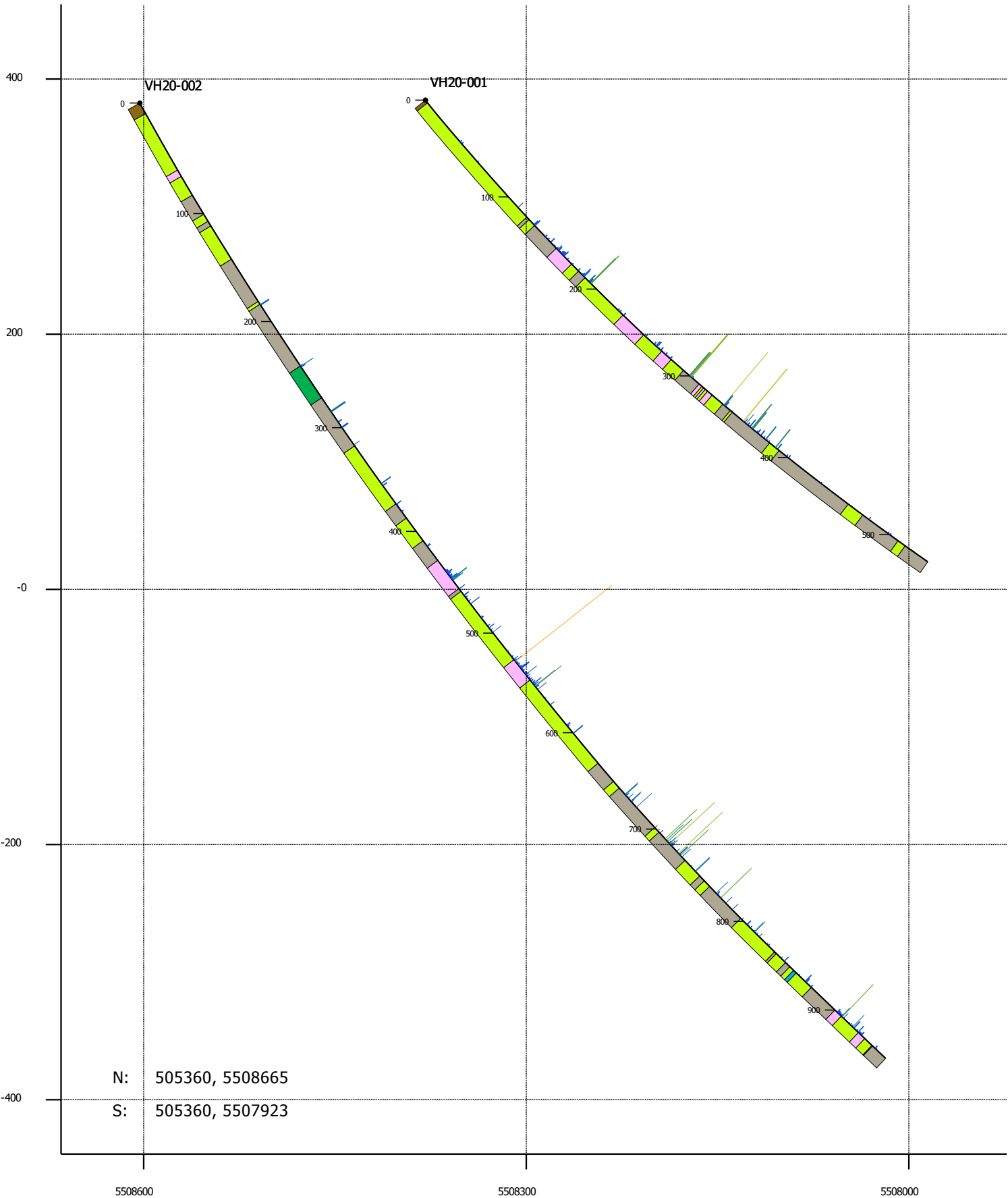
From	To	Lithology	Texture	Grain Size	Colour	From	To	Length	Au	As	Ag	Cu	Zn	Sample
205.52	231	MV, MAFIC VOLCANIC	MASSIVE	FINE	GREY	211.5	212.0	0.5	0.007	7	0.25	27	75	B0049179
Mafic volcanic unit, varying amounts of deformation and alteration. Unit has few qtz-carb-tour veins with alteration halos. Unit ends within "dead mafic rock". 205.52 - 211.5 m, Alteration: weak pervasive silica, weak pervasive carbonate; massive grey mafic volcanic unit, showing trace disseminated pyrite within sparse qtz-carb stringer veins. 211.5 - 223.54 mafic volcanic unit, massive with moderate deformation. Alteration: Moderate - strong pervasive silica, moderate pervasive carbonate, weak pervasive sericite, subtle fracture-fill chlorite. Unit has many qtz-carb-chlor-tour veins with varying mineralization. Overall unit shows 1% blebby pyrite and 0.5% disseminated pyrite. Veins: 214.72 - 215.09, qtz-carb-chlor vein, 2% blebby pyrite, trace disseminated chalcopyrite. 218.2 -218.80 m, qtz-carb-chlor-tour vein, 1% blebby pyrite, vein shows 2% blebby pyrite within surrounding host rock. 222.13 - 222.73 qtz-carb-tour-chlor vein, 2% blebby pyrite, 1% veinfill pyrite. 223.54 - 231 m "dead rock" massive mafic volcanic unit. Alteration: moderate pervasive chlorite, weak pervasive silica. Overall this section shows null - trace sulphides. Zone shows weak deformation and few qtz-carb stringers with null sulphides.														
						212.0	213.0	1	0.005	2.5	0.25	15	80	B0049180
						213.0	214.0	1	0.011	2.5	0.25	4	73	B0049181
						214.0	214.5	0.5	0.022	2.5	0.25	5	76	B0049182
						214.5	215.09	0.59	0.55	2.5	0.25	21	69	B0049183
						215.09	216.0	0.91	0.137	5	0.25	29	121	B0049184
						216.0	217.0	1	0.129	2.5	0.25	33	98	B0049185
						217.0	218.0	1	1.235	2.5	0.25	53	117	B0049186
						218.0	219.0	1	1.055	5	0.25	26	56	B0049187
						219.0	220.0	1	0.094	2.5	0.25	40	101	B0049188
						220.0	221.0	1	0.129	2.5	0.25	40	111	B0049189
						221.0	222.0	1	0.49	2.5	0.25	49	113	B0049190
						222.0	223.0	1	0.373	5	0.25	25	144	B0049192
						223.0	224.0	1	0.259	5	0.25	52	121	B0049193
						224.0	225.0	1	0.024	2.5	0.25	40	132	B0049194

Appendix H: Drill Cross-sections

N

S

VH20-001 + VH20-002



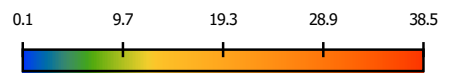
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S: 505360, 5507923

Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- MAFIC INTRUSIVE
- MAFIC VOLCANIC
- OVERBURDEN
- Quartz-Feldspar Porphyry

Au (ppm)



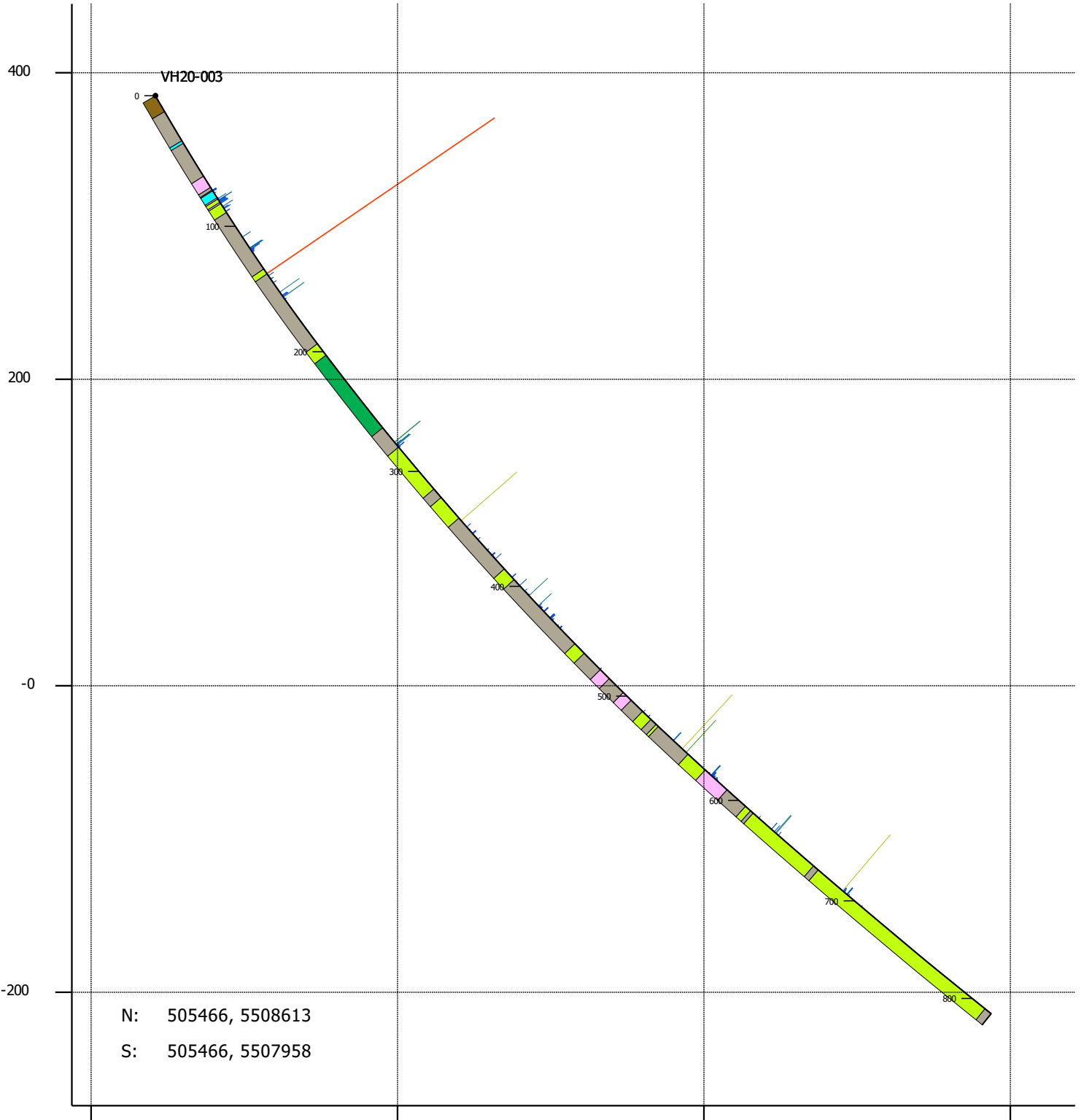
Scale: 1:4,000



N

S

VH20-003



5508600

5508400

5508200

5508000

Lithology

- INTERMEDIATE DYKE
- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- MAFIC INTRUSIVE
- MAFIC VOLCANIC
- OVERBURDEN
- Quartz-Feldspar Porphyry

Au (ppm)

0.1 9.7 19.3 28.9 38.5



Scale: 1:3,600

0m

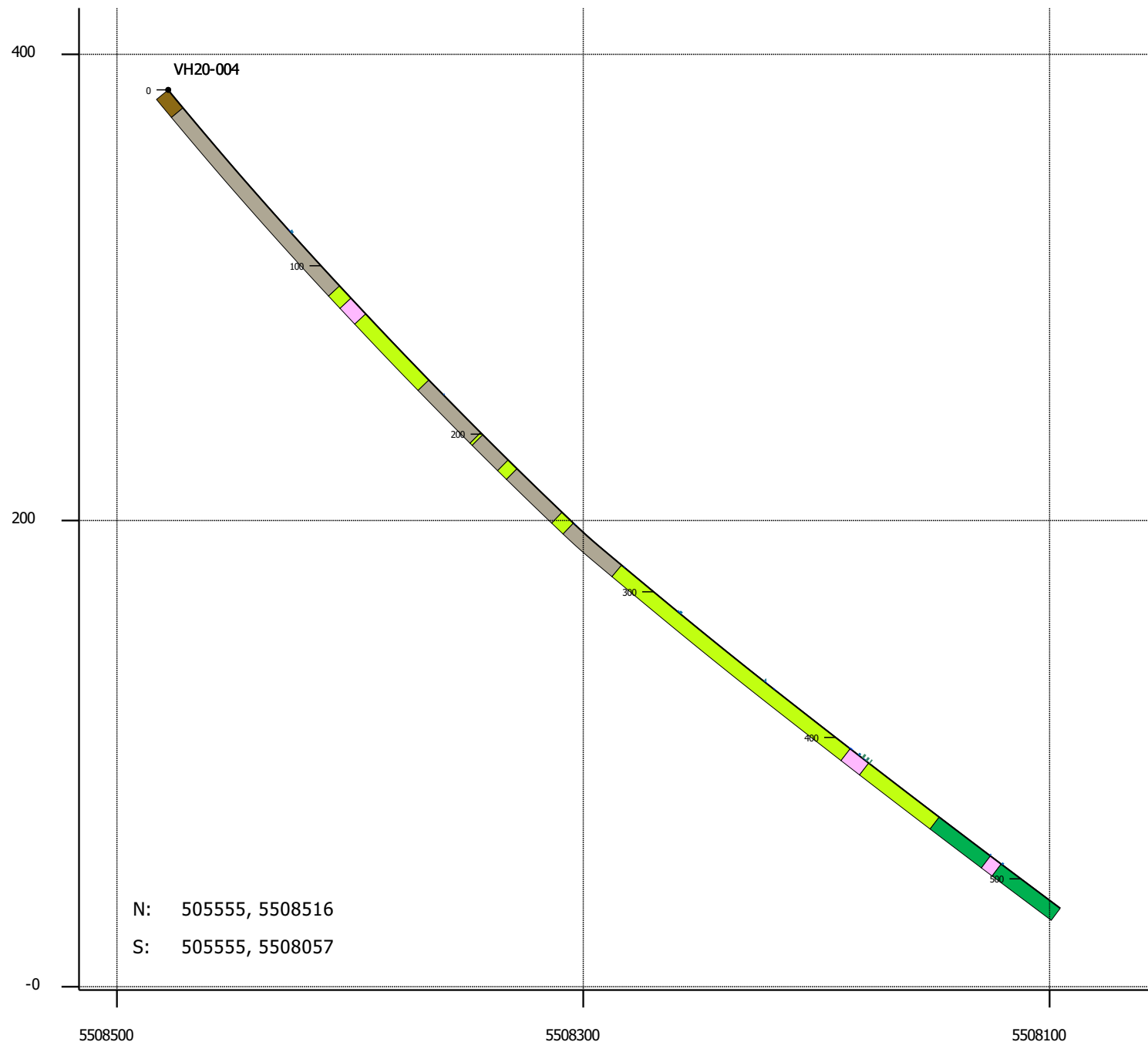
200m



VH20-004

N

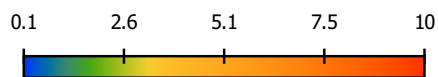
S



Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN
- Quartz-Feldspar Porphyry

Au (ppm)



Scale: 1:2,500

0m

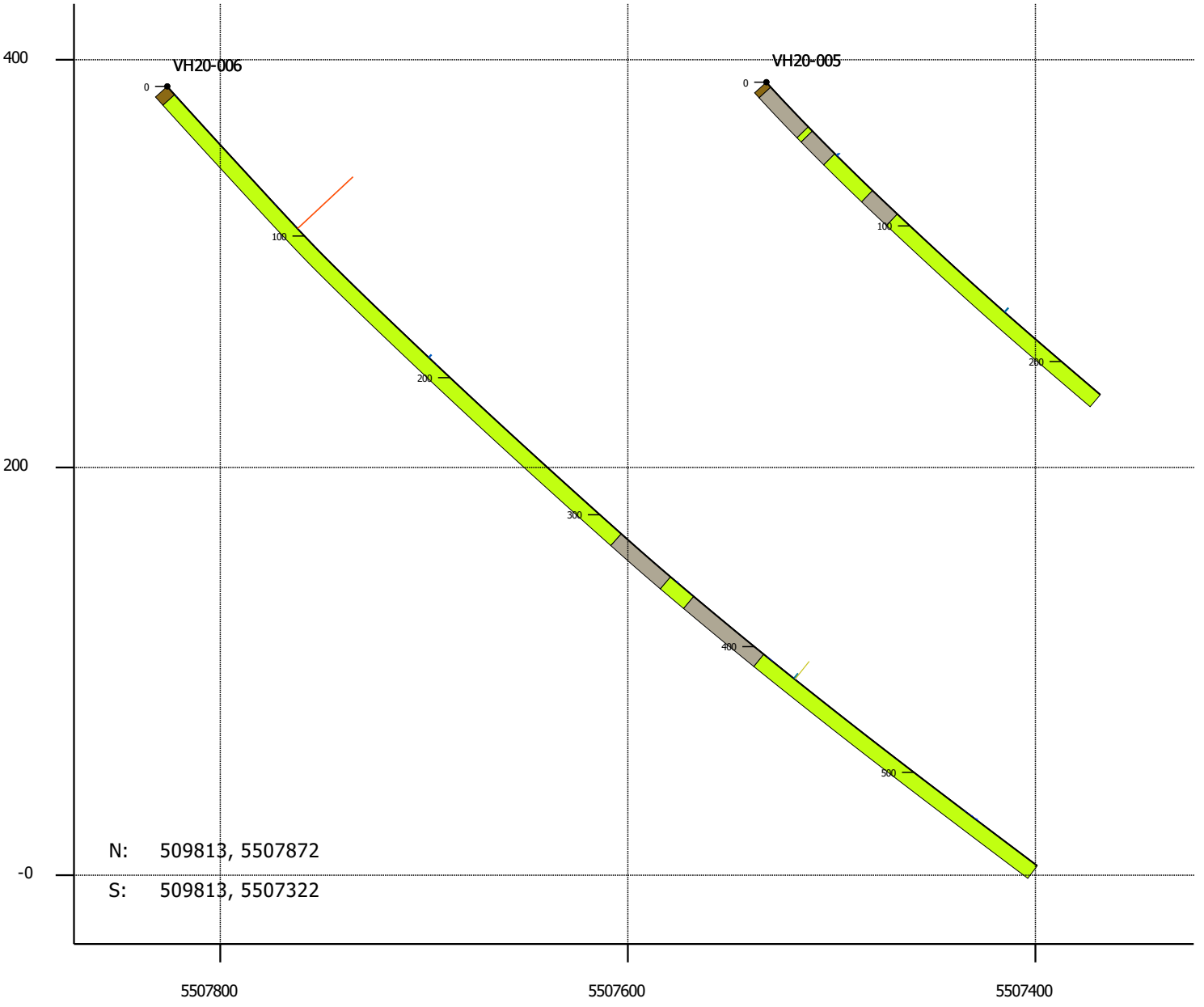
200m



VH20-005, 006

N

S



N: 509813, 5507872

S: 509813, 5507322

5507800

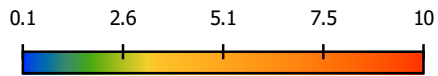
5507600

5507400

Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- OVERBURDEN

Au (ppm)



Scale: 1:3,000

0m

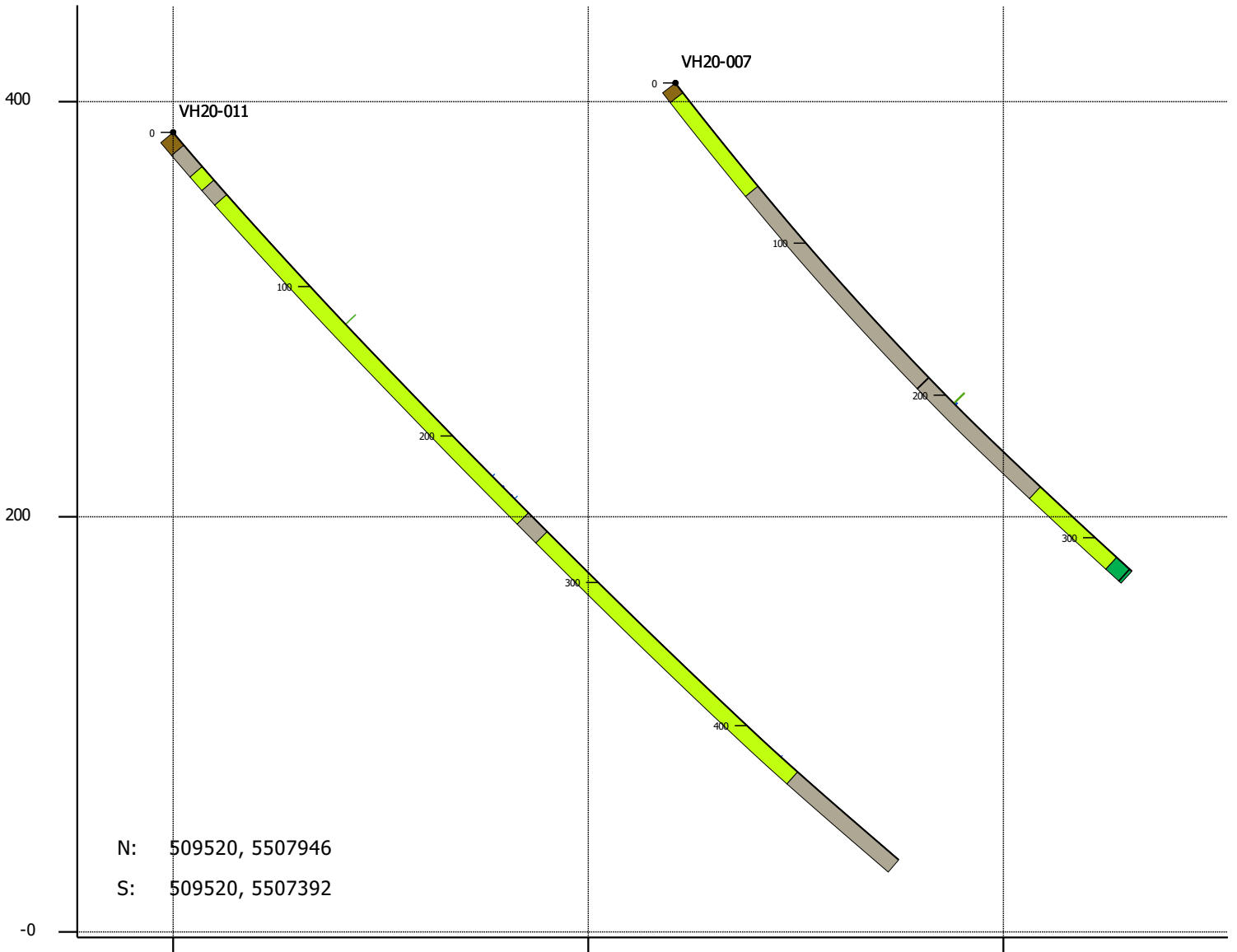
200m



VH20-007 + VH20-011

N

S



N: 509520, 5507946

S: 509520, 5507392

5507900

5507700

5507500

Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN

QUARTZ VEIN

Au (ppm)

0.1 2.6 5.1 7.5 10



Scale: 1:3,000

0m

200m



N

S

VH20-008

VH20-008

0

100

200

N: 509690, 5507676

S: 509690, 5507443

5507600

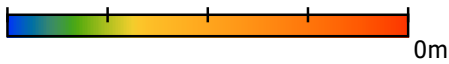
5507452

Lithology

- FELDSPAR PORPHYRY
- INTERMEDIATE VOLCANIC
- OVERBURDEN
- QUARTZ VEIN

Au (ppm)

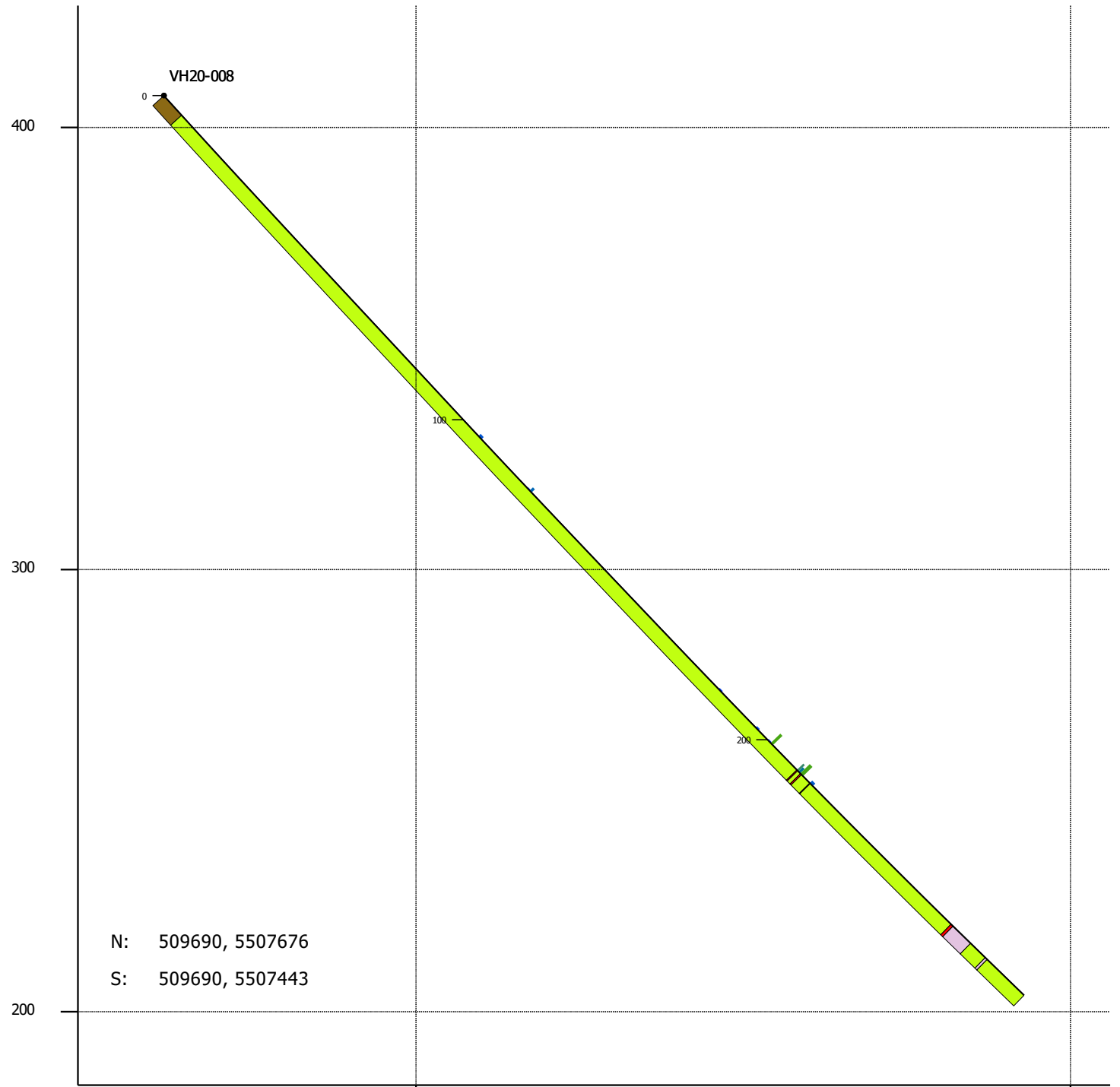
0.1 2.6 5.1 7.5 10



0m

Scale: 1:1,300

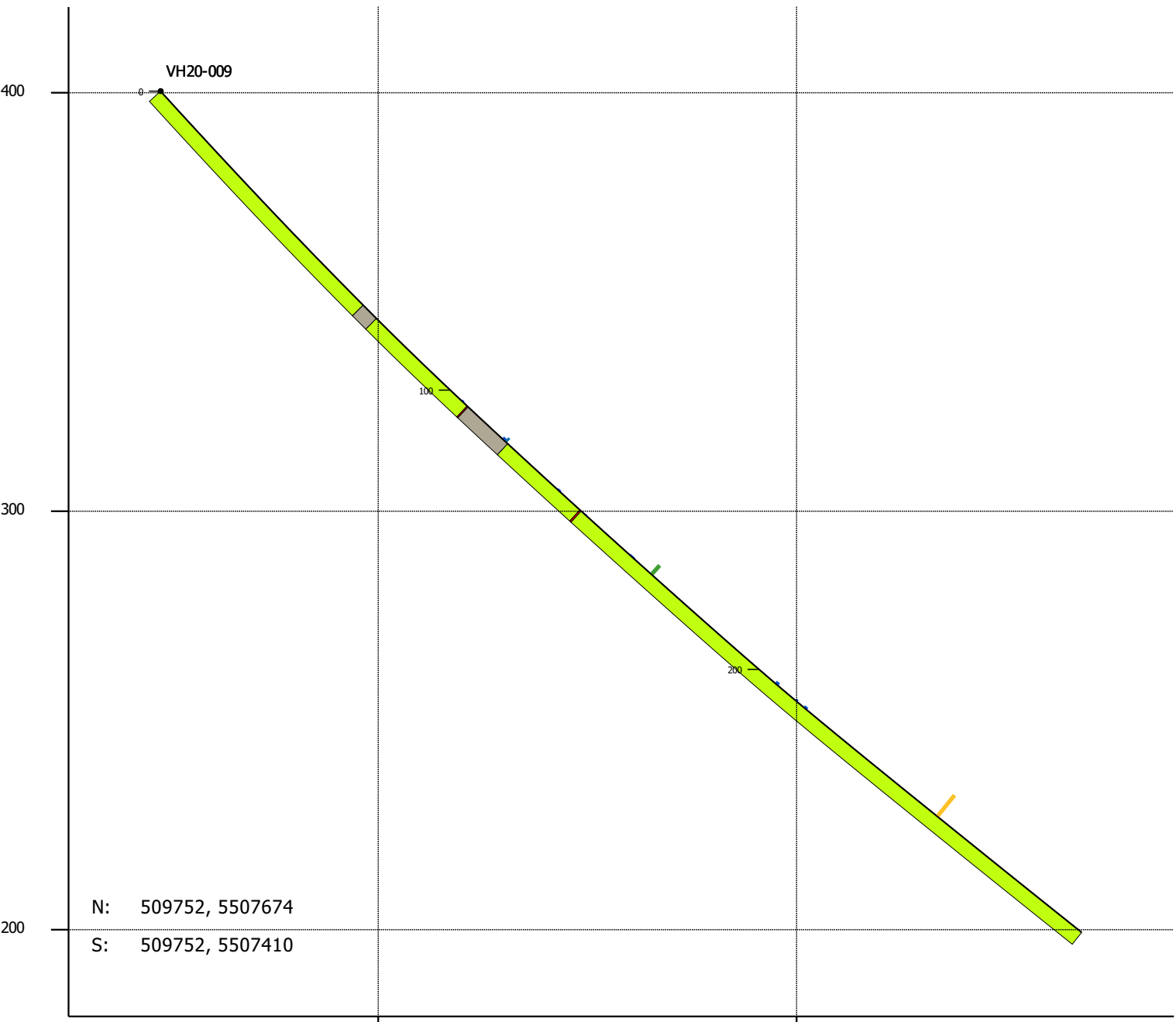
100m



VH20-009

N

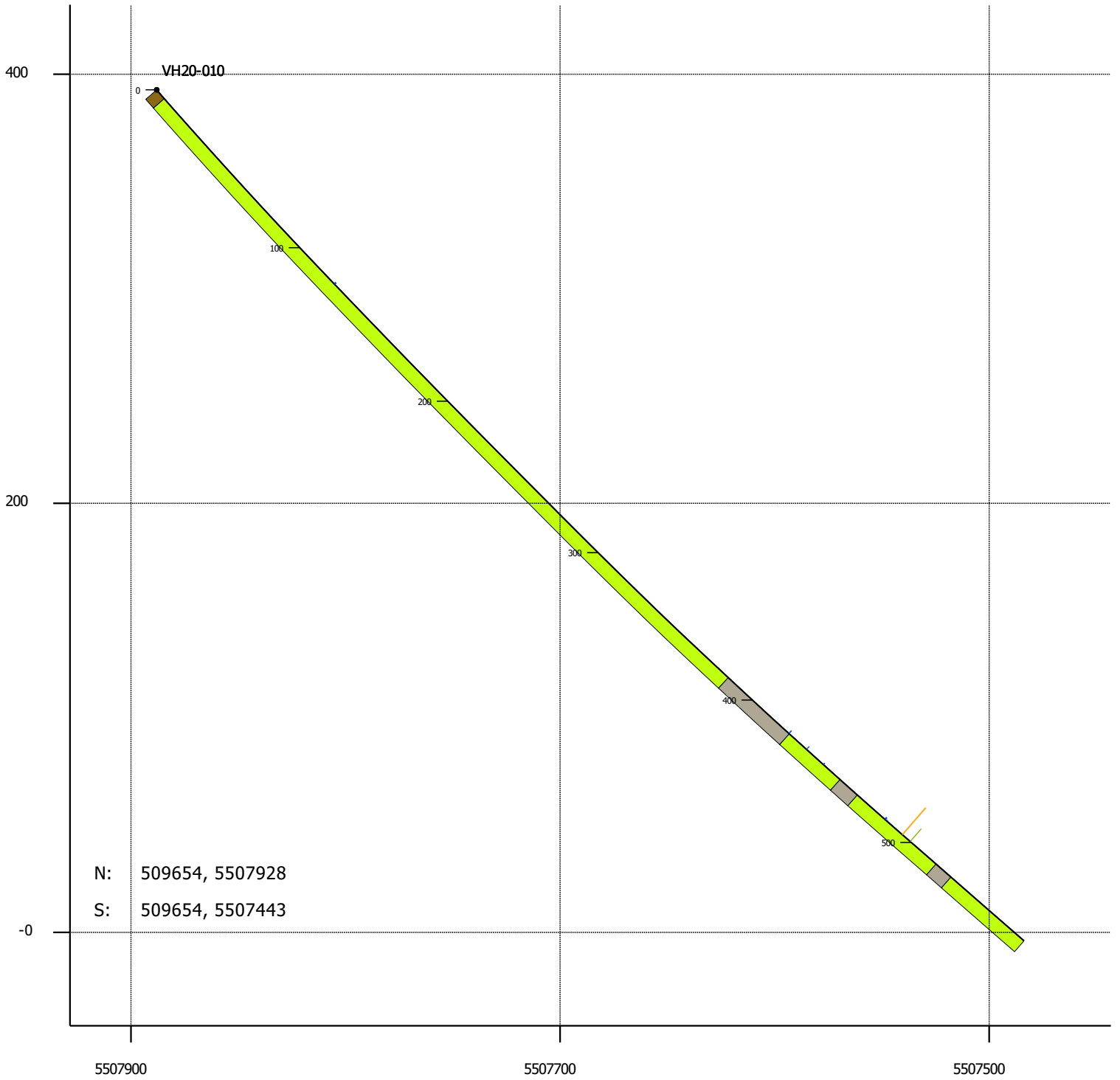
S



N

VH20-010

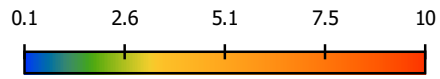
S



Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- OVERBURDEN

Au (ppm)



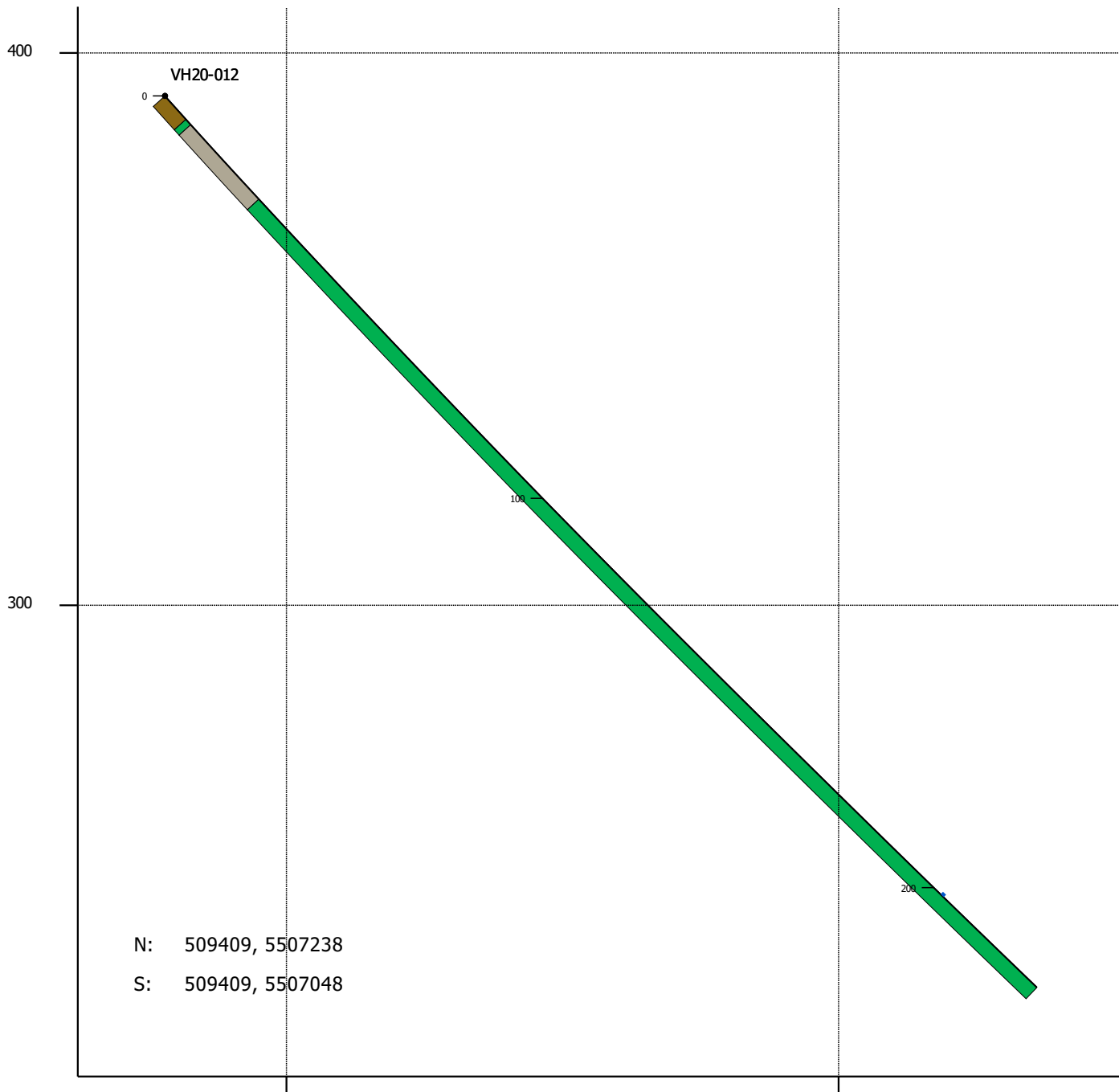
Scale: 1:2,600



N

VH20-012

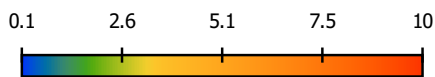
S



Lithology

- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN

Au (ppm)



Scale: 1:1,100

0m

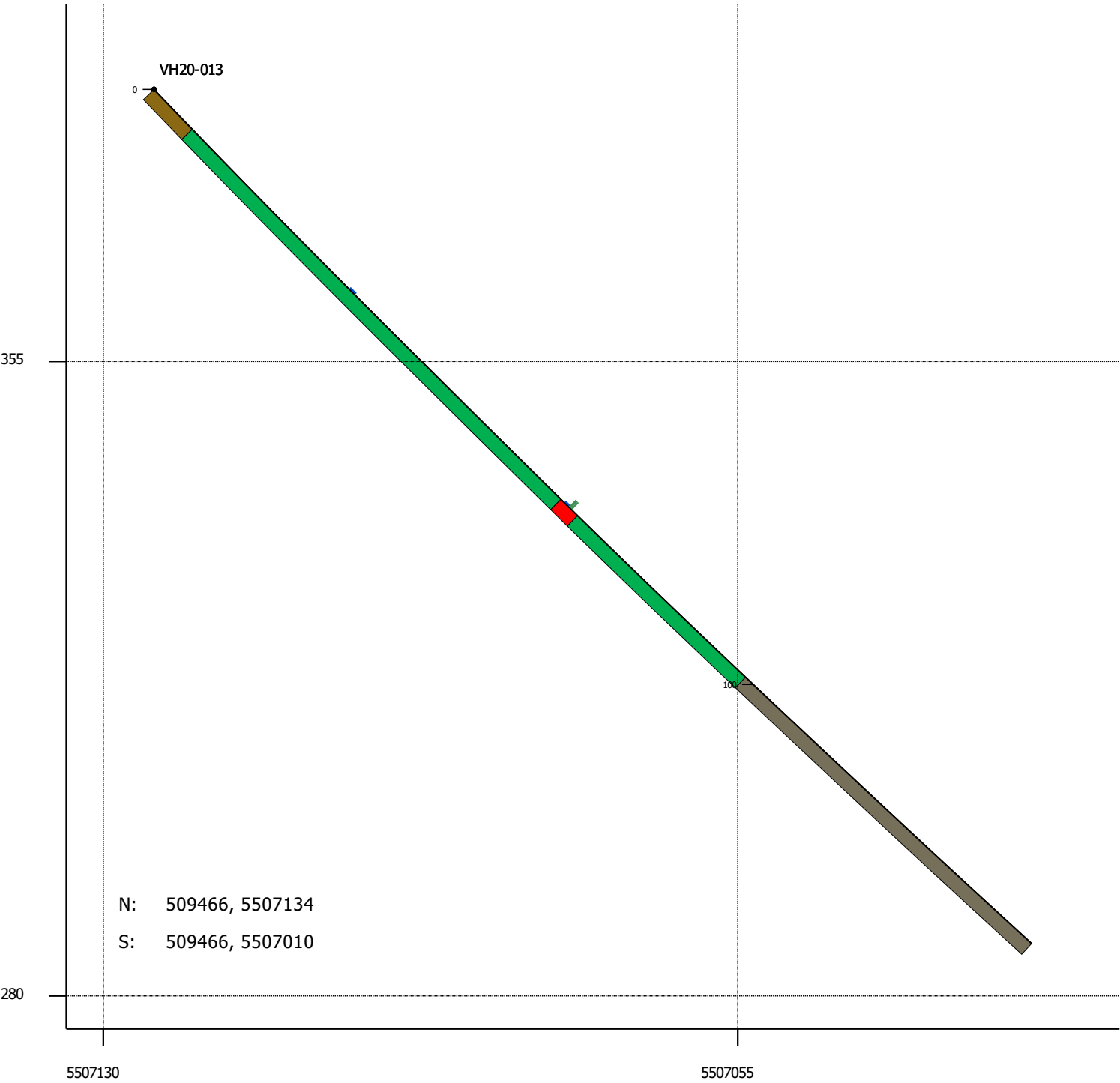
75m



VH20-013

N

S



N: 509466, 5507134

S: 509466, 5507010

5507130

5507055

Lithology

- MAFIC VOLCANIC
- MAFIC VOLCANICLASTIC
- OVERBURDEN
- QUARTZ VEIN

Au (ppm)

0.1 2.6 5.1 7.5 10



0m

Scale: 1:670

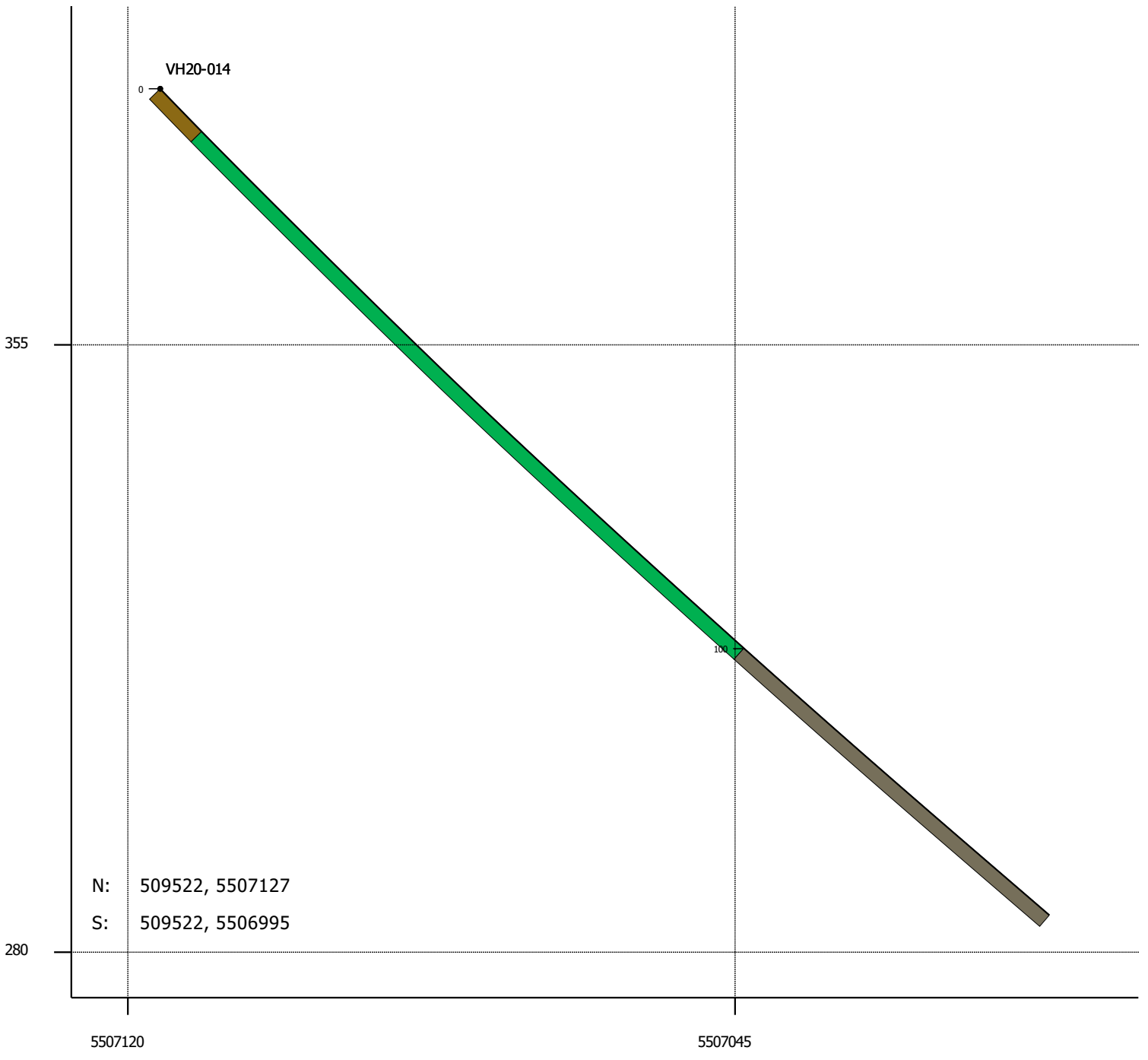
50m



VH20-014

N

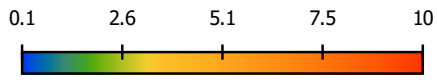
S



Lithology

- MAFIC VOLCANIC
- MAFIC VOLCANICLASTIC
- OVERBURDEN

Au (ppm)



Scale: 1:710

0m

50m



VH20-015

N

S

VH20-015

0

100

N: 509370, 5507141

S: 509370, 5507018

5507140

5507065

Scale: 1:670

Lithology

MAFIC VOLCANIC

MAFIC VOLCANICLASTIC

OVERBURDEN

QUARTZ VEIN

Au (ppm)



0m

50m



VH20-017

N

S

VH20-017

0

50

N: 509088, 5507169

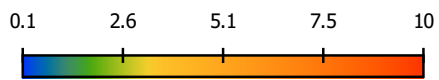
S: 509088, 5507098

5507160

Lithology

- MAFIC VOLCANIC
- MAFIC VOLCANICLASTIC
- OVERBURDEN
- QUARTZ VEIN

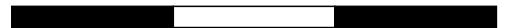
Au (ppm)



Scale: 1:390

0m

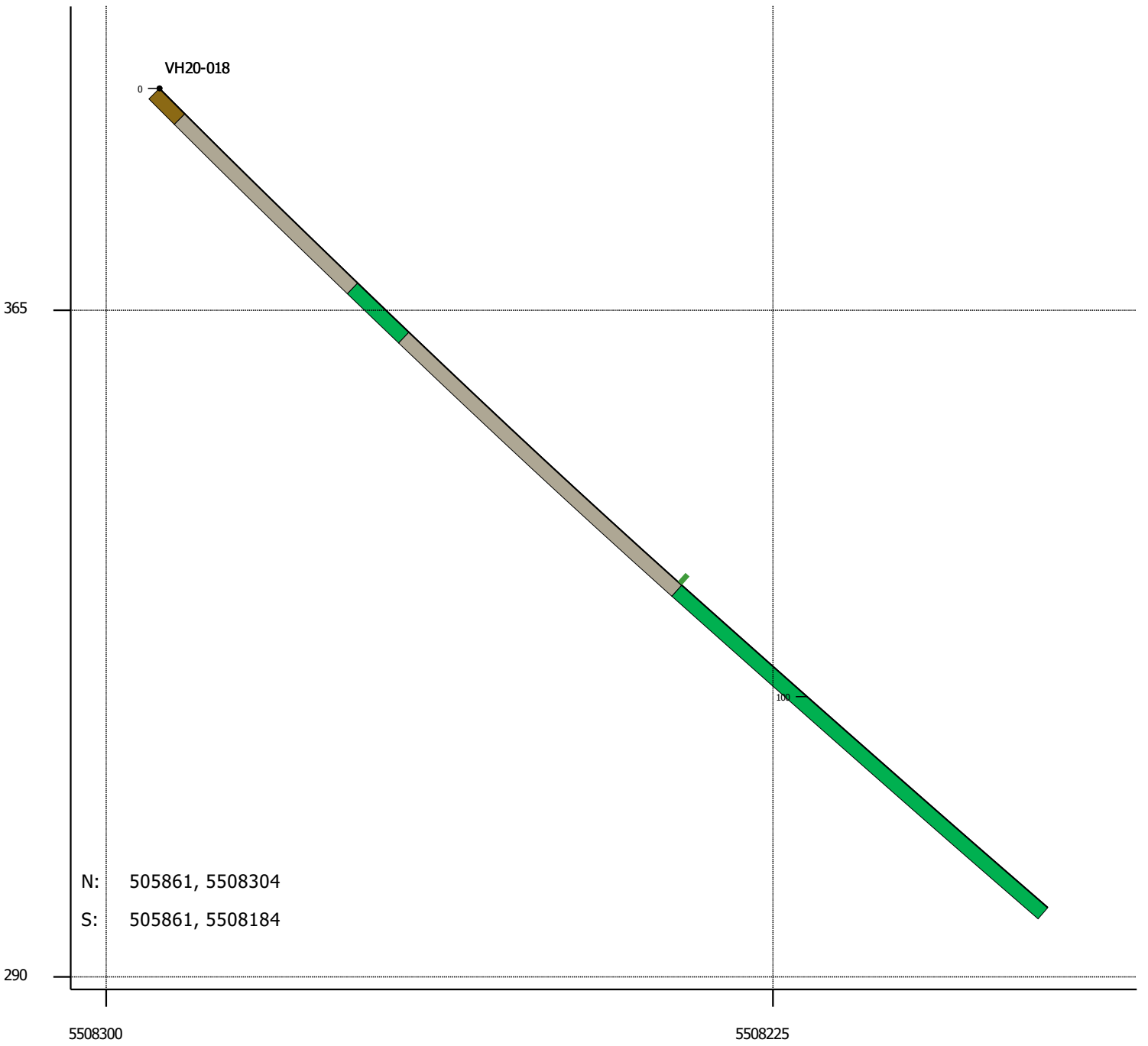
25m



VH20-018

N

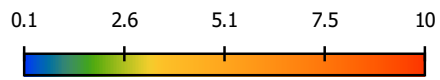
S



Lithology

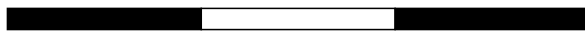
- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN

Au (ppm)



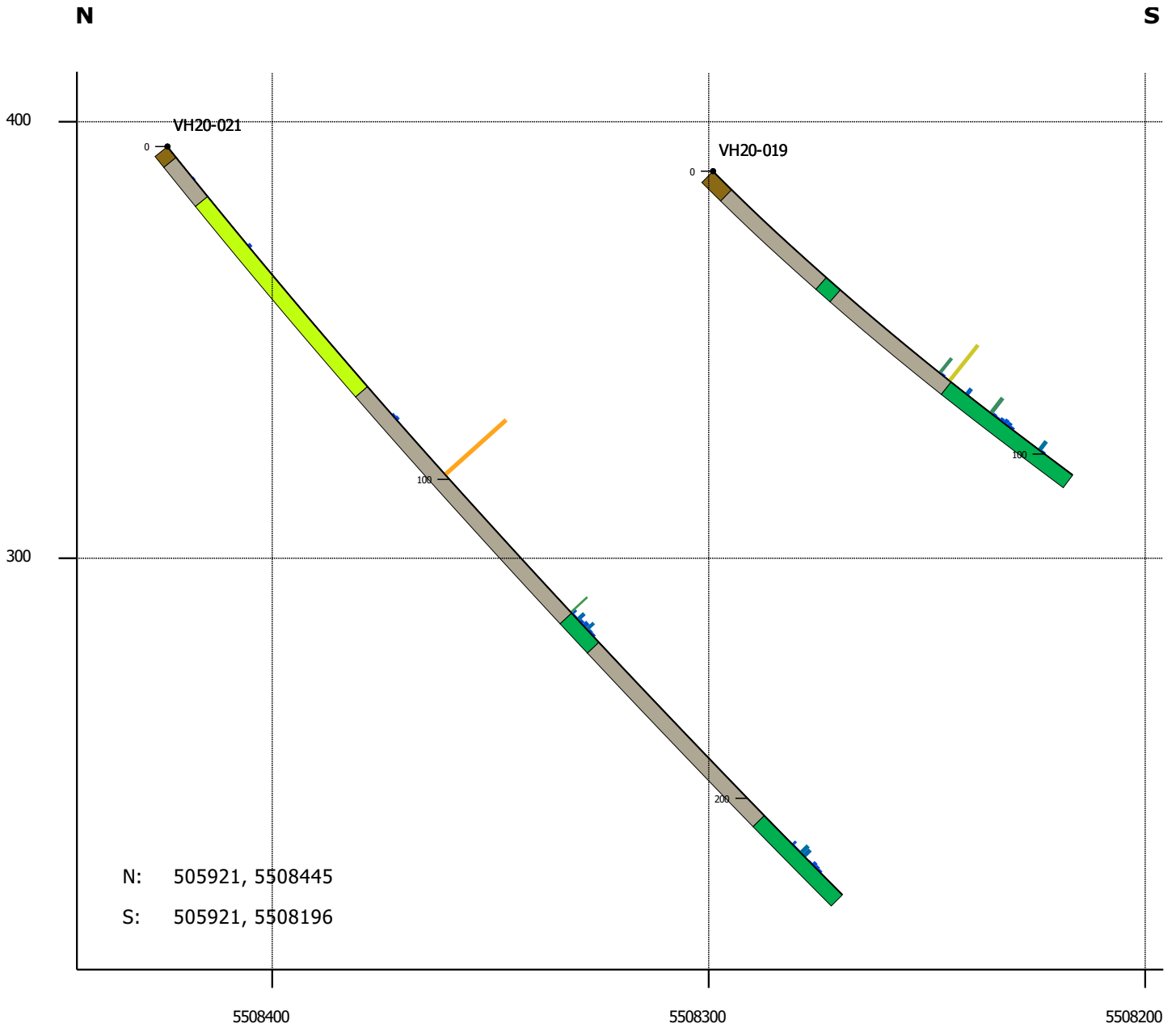
Scale: 1:650

0m



50m

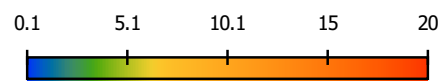
VH20-019 + VH20-021



Lithology

- INTERMEDIATE VOLCANIC
- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN

Au (ppm)



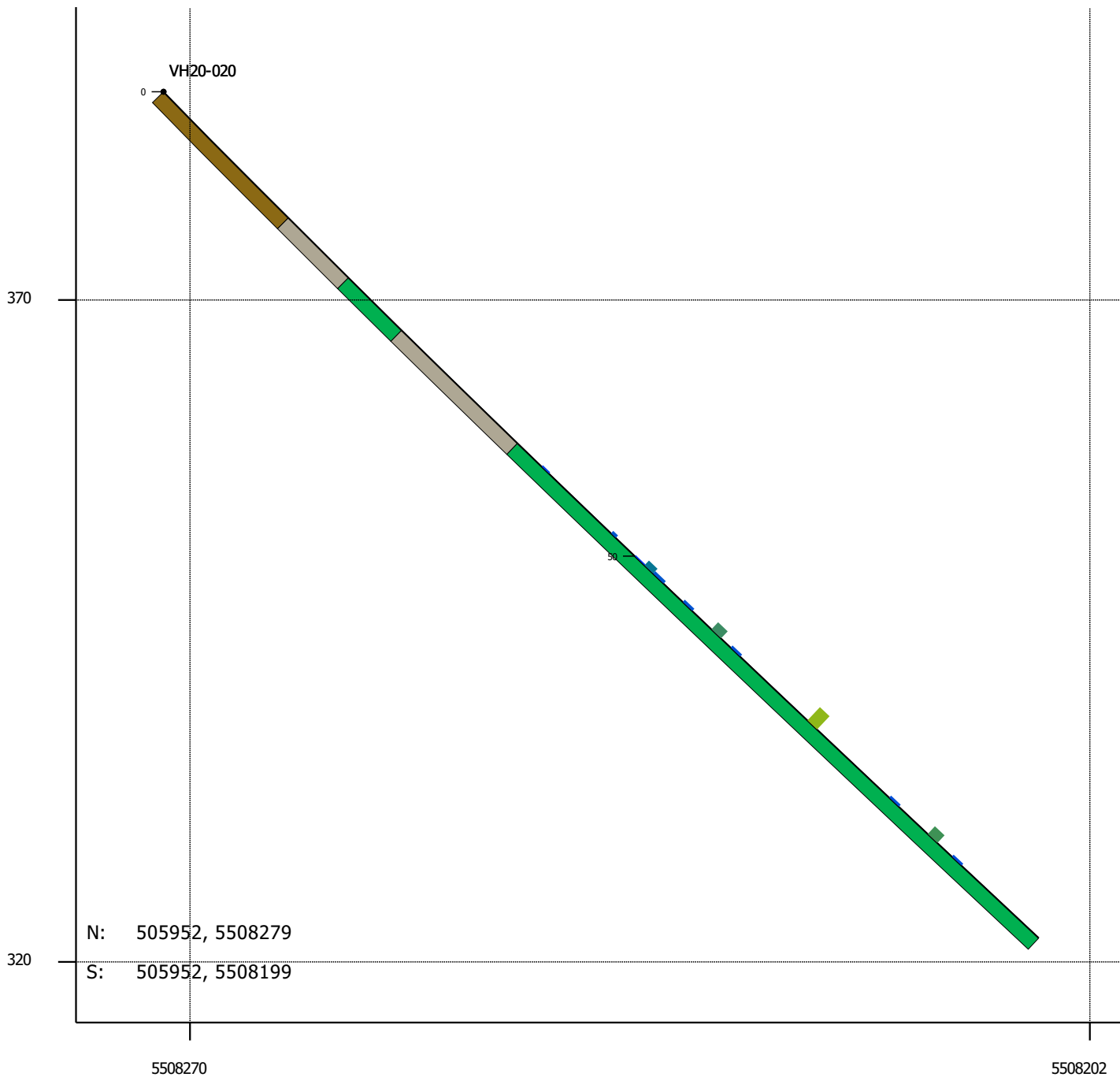
Scale: 1:1,400



VH20-020

N

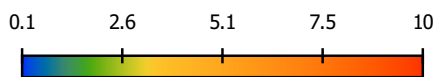
S



Lithology

- INTERMEDIATE VOLCANICLASTIC
- MAFIC VOLCANIC
- OVERBURDEN

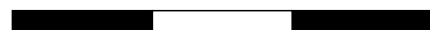
Au (ppm)



Scale: 1:450

0m

25m



Appendix I: Drill Core Certificates of Analysis



ALS Canada Ltd.
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To: **KG EXPLORATION (CANADA) INC.**
25 YORK STREET 17TH FLOOR
TORONTO ON M5J 2V5

Page: 1
Total # Pages: 3 (A)
Plus Appendix Pages
Finalized Date: 19-MAR-2020
Account: KECIBQJN

CERTIFICATE TB20049159

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 2-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG

KELSEY PRIVETT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Page: 2 - A
 Total # Pages: 3 (A)
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 Finalized Date: 19-MAR-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20049159

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0045001		0.07	<0.5	<5	21	37	<0.005	
B0045002		1.47	<0.5	<5	60	169	<0.005	
B0045003		2.31	<0.5	6	69	131	0.005	
B0045004		2.72	<0.5	7	45	140	<0.005	
B0045005		2.99	<0.5	5	43	95	<0.005	
B0045006		2.17	<0.5	<5	37	121	<0.005	
B0045007		2.45	<0.5	<5	25	118	<0.005	
B0045008		2.39	<0.5	<5	21	127	<0.005	
B0045009		2.58	<0.5	<5	27	165	<0.005	
B0045010		2.43	<0.5	<5	31	173	<0.005	
B0045011		2.66	<0.5	6	80	347	0.023	
B0045012		2.43	<0.5	5	35	136	<0.005	
B0045013		2.37	<0.5	5	36	136	<0.005	
B0045014		2.45	<0.5	<5	30	123	<0.005	
B0045015		1.87	<0.5	6	33	118	<0.005	
B0045016		0.07	1.8	17	43	94	1.070	
B0045017		2.87	<0.5	<5	39	122	<0.005	
B0045018		2.19	<0.5	5	146	113	0.022	
B0045019		2.81	<0.5	<5	46	109	<0.005	
B0045020		2.72	<0.5	<5	33	115	<0.005	
B0045021		2.52	<0.5	<5	22	110	<0.005	
B0045022		0.41	<0.5	5	12	29	<0.005	
B0045023		2.16	<0.5	<5	33	155	<0.005	
B0045024		2.62	<0.5	<5	42	127	<0.005	
B0045025		2.55	<0.5	<5	60	111	<0.005	
B0045026		2.09	<0.5	5	46	122	<0.005	
B0045027		2.57	<0.5	<5	41	121	<0.005	
B0045028		2.58	<0.5	6	140	104	0.030	
B0045029		0.07	0.6	6010	51	71	6.92	6.64
B0045030		2.44	<0.5	12	54	122	<0.005	
B0045031		2.64	<0.5	<5	21	114	<0.005	
B0045032		2.63	<0.5	<5	25	108	<0.005	
B0045033		2.65	<0.5	<5	18	115	0.071	
B0045034		2.62	<0.5	<5	51	107	<0.005	
B0045035		2.72	<0.5	5	33	144	0.329	
B0045036		2.76	<0.5	<5	21	111	0.013	
B0045037		2.45	<0.5	5	25	119	0.321	
B0045038		2.79	<0.5	<5	48	111	<0.005	
B0045039		2.61	<0.5	<5	37	120	0.027	
B0045040		2.86	<0.5	<5	13	121	<0.005	



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 Total # Pages: 3 (A)
 Plus Appendix Pages
 Finalized Date: 19-MAR-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20049159

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
B0045041		2.48	<0.5	<5	6	118	<0.005	
B0045042		0.07	<0.5	<5	23	38	<0.005	
B0045043		2.40	<0.5	<5	41	78	0.012	
B0045044		3.02	<0.5	<5	31	104	<0.005	
B0045045		2.50	<0.5	<5	38	64	0.207	
B0045046		2.60	<0.5	<5	33	102	<0.005	
B0045047		2.71	<0.5	<5	40	106	<0.005	
B0045048		0.91	<0.5	<5	28	77	<0.005	
B0045049		2.62	<0.5	<5	40	81	<0.005	
B0045050		2.54	<0.5	<5	32	82	<0.005	
B0045051		2.62	<0.5	<5	34	95	0.029	
B0045052		2.85	<0.5	<5	39	88	<0.005	
B0045053		2.79	<0.5	<5	44	88	0.006	
B0045054		2.39	<0.5	<5	35	106	<0.005	
B0045055		0.07	1.4	16	39	85	1.075	
B0045056		1.32	<0.5	<5	39	113	<0.005	
B0045057		2.07	<0.5	5	39	94	0.042	
B0045058		2.21	<0.5	<5	37	108	0.005	
B0045059		1.78	<0.5	<5	47	93	1.015	
B0045060		1.63	<0.5	<5	39	101	0.007	
B0045061		2.87	<0.5	<5	54	95	<0.005	
B0045062		2.79	<0.5	<5	50	100	0.005	
B0045063		2.81	<0.5	<5	41	102	<0.005	
B0045064		2.79	<0.5	<5	46	100	<0.005	
B0045065		2.83	<0.5	<5	53	103	0.006	
B0045066		2.94	<0.5	<5	45	107	<0.005	
B0045067		2.88	<0.5	<5	41	110	0.151	
B0045068		0.07	<0.5	<5	21	36	<0.005	
B0045069		2.57	<0.5	<5	44	128	<0.005	
B0045070		3.94	<0.5	<5	59	134	<0.005	
B0045071		1.83	<0.5	<5	72	174	0.027	
B0045072		3.03	0.5	<5	77	131	<0.005	
B0045073		3.40	<0.5	<5	68	125	<0.005	
B0045074		2.88	<0.5	<5	51	135	<0.005	
B0045075		2.96	<0.5	<5	39	140	<0.005	
B0045076		2.97	<0.5	<5	3	87	<0.005	
B0045077		2.57	<0.5	<5	5	77	0.097	
B0045078		3.03	<0.5	<5	4	86	0.160	



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Total # Appendix Pages: 1
Finalized Date: 19-MAR-2020
Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20049159

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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 Account: KECIBQJN

CERTIFICATE TB20049160

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 2-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Finalized Date: 19-MAR-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20049160

Sample Description	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Au-AA24 Au ppm	Au-GRA22 Au ppm
	0.02	0.5	5	1	2	0.001	0.005	0.05
B0045079	0.44	0.5	<5	8	26		<0.005	
B0045080	2.45	<0.5	5	8	68		0.831	
B0045081	2.49	<0.5	5	41	96		1.085	
B0045082	2.48	<0.5	<5	72	114		0.005	
B0045083	0.07	<0.5	<5	22	38		<0.005	
B0045084	2.55	<0.5	<5	93	117		<0.005	
B0045085	2.50	<0.5	6	71	127		0.112	
B0045086	2.66	<0.5	<5	73	106		<0.005	
B0045087	2.45	<0.5	5	71	111		<0.005	
B0045088	2.49	<0.5	5	50	127		<0.005	
B0045089	2.52	<0.5	9	49	81		<0.005	
B0045090	2.31	<0.5	17	51	113		0.006	
B0045091	2.17	<0.5	<5	76	84		<0.005	
B0045092	2.27	<0.5	<5	71	81		<0.005	
B0045093	2.54	<0.5	<5	78	114		<0.005	
B0045094	0.07	0.7	5310	51	72		6.30	6.62
B0045095	2.25	<0.5	8	67	98		0.400	
B0045096	2.52	<0.5	<5	71	126		0.024	
B0045097	2.29	<0.5	6	59	114		0.006	
B0045098	2.23	<0.5	8	46	85		0.281	
B0045099	2.35	<0.5	7	55	99		0.069	
B0045100	2.46	<0.5	6	49	86		0.013	
B0045101	2.42	<0.5	5	47	79		0.805	
B0045102	2.30	<0.5	<5	55	92		0.009	
B0045103	2.41	<0.5	<5	46	106		<0.005	
B0045104	2.29	<0.5	6	46	104		0.006	
B0045105	2.27	<0.5	14	50	130		0.214	
B0045106	2.30	<0.5	7	45	82		0.087	
B0045107	0.07	<0.5	<5	21	37		<0.005	
B0045108	2.35	<0.5	6	37	79		0.012	
B0045109	2.78	<0.5	5	13	36		0.293	
B0045110	1.84	<0.5	9	38	76		0.886	
B0045111	2.17	<0.5	5	13	34		0.672	
B0045112	2.62	<0.5	<5	9	41		0.127	
B0045113	2.06	<0.5	5	26	32		0.177	
B0045114	2.21	<0.5	<5	8	32		0.462	
B0045115	2.20	<0.5	5	11	32		0.558	
B0045116	2.08	<0.5	8	18	38		0.585	
B0045117	2.42	<0.5	9	72	97		0.926	
B0045118	2.29	<0.5	5	13	46		0.083	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20049160

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.001	0.005	0.05
B0045119		2.23	<0.5	<5	7	32		0.103	
B0045120		0.07	1.9	18	45	95		1.005	
B0045121		2.05	<0.5	<5	9	32		0.140	
B0045122		1.73	<0.5	<5	10	31		0.368	
B0045123		2.89	0.5	14	55	671		0.012	
B0045124		2.57	0.5	9	62	307		0.009	
B0045125		2.55	<0.5	36	43	816		0.073	
B0045126		3.24	<0.5	40	50	798		0.117	
B0045127		2.03	0.8	105	81	8500		0.251	
B0045128		2.30	<0.5	8	61	260		0.010	
B0045129		2.55	0.5	16	54	156		0.007	
B0045130		2.85	0.6	11	55	145		0.008	
B0045131		2.75	0.6	12	54	137		0.021	
B0045132		2.90	<0.5	11	53	162		0.006	
B0045133		0.07	<0.5	<5	21	38		<0.005	
B0045134		2.82	0.5	12	73	579		0.022	
B0045135		3.16	2.1	91	331	>10000	1.370	0.443	
B0045136		2.89	<0.5	21	13	406		0.038	
B0045137		2.63	<0.5	13	18	134		0.020	
B0045138		3.07	<0.5	6	12	150		0.046	
B0045139		2.90	<0.5	9	8	142		0.179	
B0045140		2.85	<0.5	14	5	173		0.427	
B0045141		2.71	<0.5	9	9	244		1.455	
B0045142		1.39	0.5	22	8	436		1.160	
B0045143		1.94	<0.5	<5	17	263		0.066	
B0045144		2.36	<0.5	21	22	179		0.125	
B0045145		2.94	0.5	9	36	261		0.020	
B0045146		0.07	0.9	6140	52	73		6.36	6.80
B0045147		3.06	<0.5	11	44	165		0.042	
B0045148		2.80	<0.5	6	29	136		0.097	
B0045149		2.90	<0.5	7	36	149		1.310	
B0045150		2.62	<0.5	15	24	128		0.704	
B0045151		1.95	1.1	23	28	716		5.19	5.44
B0045152		2.09	2.1	100	368	4070		5.81	5.81
B0045153		2.16	<0.5	6	18	237		0.056	
B0045154		2.88	<0.5	<5	47	226		0.017	
B0045155		2.75	<0.5	<5	41	132		0.294	
B0045156		2.78	<0.5	<5	32	130		0.010	



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CERTIFICATE TB20051250

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 4-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20051250

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0045235		0.07	<0.5	<5	20	35	<0.005		
B0045236		1.94	<0.5	<5	7	33	0.030		
B0045237		1.63	<0.5	5	5	31	<0.005		
B0045238		1.28	<0.5	<5	11	44	0.084		
B0045239		1.40	<0.5	5	21	95	<0.005		
B0045240		2.07	<0.5	<5	13	127	<0.005		
B0045241		2.10	<0.5	<5	15	140	<0.005		2.77
B0045242		2.10	<0.5	<5	50	318	0.007		
B0045243		1.81	0.6	<5	187	2300	0.125		
B0045244		2.03	<0.5	<5	90	1650	0.021		
B0045245		1.98	<0.5	<5	64	177	<0.005		
B0045246		1.84	<0.5	6	41	151	<0.005		
B0045247		0.93	<0.5	<5	34	142	<0.005		
B0045248		1.25	<0.5	<5	55	160	>10.0	10.70	
B0045249		0.07	<0.5	5	21	36	<0.005		
B0045250		0.07	1.2	21	45	87	1.085		
B0045251		1.84	1.4	6	73	177	1.885		
B0045252		2.05	<0.5	<5	95	145	0.779		
B0045253		1.88	<0.5	<5	5	137	0.016		
B0045254		2.05	<0.5	<5	7	109	0.028		
B0045255		2.02	<0.5	<5	8	106	<0.005		2.72
B0045256		0.56	<0.5	<5	7	22	<0.005		
B0045257		2.07	<0.5	<5	34	103	<0.005		
B0045258		1.34	<0.5	<5	81	221	<0.005		
B0045259		2.59	<0.5	<5	165	130	<0.005		
B0045260		1.23	<0.5	<5	63	96	0.206		
B0045261		2.49	<0.5	<5	119	116	0.021		
B0045262		1.84	<0.5	<5	73	134	0.006		
B0045263		0.07	1.4	6020	62	73	6.57	6.34	
B0045264		1.86	<0.5	8	92	108	0.028		
B0045265		1.87	<0.5	<5	91	111	<0.005		
B0045266		1.82	<0.5	6	36	81	<0.005		
B0045267		1.88	<0.5	<5	20	77	<0.005		
B0045268		1.82	<0.5	<5	34	72	0.104		
B0045269		1.93	<0.5	<5	3	65	<0.005		
B0045270		1.76	<0.5	<5	47	87	<0.005		
B0045271		2.13	<0.5	<5	252	140	0.011		
B0045272		1.48	<0.5	<5	97	135	0.019		
B0045273		0.91	1.3	<5	162	104	>10.0	35.3	
B0045274		0.07	<0.5	<5	20	35	0.006		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20051250

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045275		1.41	<0.5	<5	91	122	0.037		
B0045276		0.07	<0.5	<5	20	34	<0.005		
B0045277		1.39	<0.5	<5	109	91	0.672		
B0045278		1.14	<0.5	<5	131	80	0.060		
B0045279		0.56	<0.5	<5	130	59	0.133		
B0045280		1.19	<0.5	5	123	71	1.710		
B0045281		2.20	<0.5	<5	130	87	0.033		
B0045282		2.19	<0.5	<5	84	91	0.454		
B0045283		2.18	<0.5	<5	91	114	0.012		
B0045284		2.01	<0.5	<5	92	104	1.315	2.25	
B0045285		2.20	<0.5	<5	117	130	0.023		
B0045286		2.26	<0.5	8	147	108	4.55	5.08	
B0045287		2.17	<0.5	5	36	124	3.16	3.27	
B0045288		2.33	<0.5	<5	34	127	0.089		
B0045289		0.07	1.3	13	43	91	1.090		
B0045290		2.04	<0.5	5	49	127	0.040		
B0045291		2.24	<0.5	<5	62	117	0.075		
B0045292		2.02	<0.5	<5	43	106	0.274		
B0045293		2.19	<0.5	<5	78	104	0.677		
B0045294		2.06	<0.5	<5	111	125	0.110		
B0045295		2.14	<0.5	<5	24	148	<0.005		
B0045296		2.26	<0.5	<5	47	142	0.954		
B0045297		2.34	<0.5	<5	67	124	0.048		
B0045298		2.28	<0.5	<5	84	117	0.006		
B0045299		2.29	<0.5	5	89	113	0.296		
B0045300		2.29	<0.5	<5	60	117	0.074		
B0045301		2.19	<0.5	<5	12	117	2.44		
B0045302		0.07	<0.5	7	22	37	<0.005		
B0045303		2.26	<0.5	<5	58	119	0.169		
B0045304		2.29	<0.5	<5	33	101	0.055		
B0045305		1.93	<0.5	<5	8	81	0.263		
B0045306		1.27	<0.5	<5	9	46	0.059		
B0045307		1.44	<0.5	<5	10	57	0.071		
B0045308		2.28	<0.5	5	4	77	0.008		
B0045309		2.31	<0.5	<5	2	86	0.018		
B0045310		2.40	<0.5	<5	2	79	0.073		
B0045311		2.44	<0.5	<5	2	83	0.018		
B0045312		2.50	<0.5	<5	1	83	0.005		



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CERTIFICATE TB20051251

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 4-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20051251

Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	Au-GRA22 Au Check ppm	OA-GRA08b S.G. Unity
Sample Description	0.02	0.5	5	1	2	0.005	0.05	0.05	0.01
B0045313	0.57	<0.5	<5	9	26	<0.005			
B0045314	2.27	<0.5	<5	4	76	3.41	2.82	3.90	
B0045315	2.40	<0.5	<5	10	78	0.046			
B0045316	2.16	<0.5	<5	32	97	0.977			
B0045317	0.07	<0.5	<5	22	37	<0.005			
B0045318	1.63	<0.5	<5	77	118	0.056			
B0045319	1.10	<0.5	<5	79	123	0.023			
B0045320	2.06	<0.5	<5	65	126	<0.005			
B0045321	2.37	<0.5	<5	58	131	<0.005			
B0045322	2.63	<0.5	<5	104	142	0.009			
B0045323	2.54	<0.5	<5	167	624	0.016			
B0045324	2.55	<0.5	<5	146	170	0.016			
B0045325	2.46	<0.5	5	129	123	0.008			
B0045326	2.42	<0.5	<5	113	139	0.012			
B0045327	2.47	<0.5	<5	75	134	0.316			
B0045328	0.07	<0.5	6240	51	69	6.69	6.50		
B0045329	2.27	<0.5	7	67	139	0.013			
B0045330	2.39	<0.5	<5	64	145	0.482			
B0045331	2.41	<0.5	<5	86	145	0.007			
B0045332	2.50	<0.5	<5	102	129	0.025			
B0045333	2.33	<0.5	<5	141	130	0.028			
B0045334	3.13	<0.5	<5	76	128	0.013			
B0045335	2.59	<0.5	<5	38	139	0.205			
B0045336	1.36	<0.5	<5	63	151	0.006			
B0045337	2.43	<0.5	<5	97	146	0.012			
B0045338	2.53	<0.5	6	101	150	0.011			2.70
B0045339	2.44	<0.5	<5	80	150	0.007			
B0045340	2.55	<0.5	<5	110	158	0.008			
B0045341	0.07	<0.5	<5	21	37	<0.005			
B0045342	2.38	<0.5	<5	28	144	<0.005			
B0045343	2.29	<0.5	7	73	140	<0.005			
B0045344	1.35	<0.5	<5	34	153	<0.005			
B0045345	1.29	<0.5	<5	16	163	<0.005			
B0045346	2.35	<0.5	5	19	171	<0.005			
B0045347	2.41	<0.5	<5	46	153	0.005			
B0045348	2.01	<0.5	<5	45	158	0.011			
B0045349	1.39	<0.5	<5	43	158	0.434			
B0045350	1.42	<0.5	<5	50	158	0.016			
B0045351	1.56	<0.5	<5	54	162	0.010			
B0045352	0.92	0.5	<5	133	192	0.043			



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CERTIFICATE OF ANALYSIS TB20051251

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	Au Check ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.05	0.01
B0045353		2.35	<0.5	<5	50	173	0.007			
B0045354		0.07	1.3	15	43	93	1.085			
B0045355		2.48	<0.5	<5	63	190	0.013			2.78
B0045356		2.54	<0.5	<5	91	187	0.006			
B0045357		2.52	<0.5	<5	89	215	0.029			
B0045358		2.37	<0.5	<5	46	182	0.011			
B0045359		2.44	<0.5	<5	23	173	<0.005			
B0045360		2.42	<0.5	<5	9	93	0.005			
B0045361		2.59	<0.5	<5	9	114	0.011			
B0045362		2.47	<0.5	<5	19	195	0.005			
B0045363		2.56	<0.5	<5	28	184	0.012			
B0045364		2.43	<0.5	<5	34	146	0.007			
B0045365		2.57	<0.5	<5	42	152	0.032			
B0045366		2.44	<0.5	<5	51	151	0.005			
B0045367		0.07	<0.5	<5	22	37	<0.005			
B0045368		1.50	<0.5	<5	41	161	0.007			
B0045369		2.11	0.8	<5	74	151	<0.005			
B0045370		1.13	<0.5	6	40	163	<0.005			
B0045371		2.38	<0.5	<5	76	175	0.012			
B0045372		2.23	<0.5	<5	78	179	0.287			
B0045373		2.46	<0.5	6	57	193	0.016			
B0045374		2.25	<0.5	<5	109	192	0.270			
B0045375		2.30	<0.5	<5	85	251	0.046			
B0045376		2.40	<0.5	<5	43	225	<0.005			
B0045377		2.26	<0.5	<5	30	205	0.061			
B0045378		2.25	<0.5	<5	20	195	0.010			
B0045379		2.25	<0.5	<5	26	171	0.010			
B0045380		0.07	0.9	6010	51	70	6.28	6.94		
B0045381		2.23	<0.5	10	31	194	0.008			
B0045382		2.05	<0.5	<5	48	287	0.006			
B0045383		1.12	<0.5	5	27	236	0.014			
B0045384		1.31	<0.5	12	19	206	0.024			
B0045385		2.15	<0.5	<5	8	188	<0.005			
B0045386		2.13	<0.5	<5	11	154	<0.005			
B0045387		2.17	<0.5	<5	5	146	<0.005			
B0045388		2.27	<0.5	<5	5	127	<0.005			
B0045389		2.17	<0.5	<5	8	90	<0.005			2.61
B0045390		1.66	<0.5	<5	29	90	<0.005			



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CERTIFICATE TB20051286

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 4-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20051286

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045157		0.07	<0.5	<5	21	37	<0.005		
B0045158		2.71	<0.5	6	48	128	0.332		
B0045159		2.69	<0.5	<5	40	127	0.020		
B0045160		2.79	<0.5	<5	51	133	0.012		
B0045161		2.68	<0.5	6	38	148	0.026		
B0045162		2.99	<0.5	<5	25	51	0.473		
B0045163		2.72	<0.5	<5	7	34	0.008		
B0045164		2.63	<0.5	<5	8	18	0.012		2.63
B0045165		2.74	<0.5	<5	7	25	0.008		
B0045166		2.59	<0.5	<5	5	18	0.020		
B0045167		3.06	<0.5	<5	6	22	0.020		
B0045168		2.50	<0.5	<5	6	22	0.013		
B0045169		2.69	<0.5	5	5	18	0.041		
B0045170		2.48	<0.5	<5	7	16	0.012		
B0045171		2.57	<0.5	<5	15	28	0.010		
B0045172		0.07	1.3	18	42	90	1.090		
B0045173		2.71	<0.5	<5	10	16	<0.005		
B0045174		1.28	<0.5	<5	6	23	0.145		
B0045175		1.59	<0.5	<5	8	144	0.013		
B0045176		2.87	<0.5	<5	6	116	0.006		
B0045177		3.02	0.5	5	7	106	0.395		
B0045178		3.92	<0.5	<5	9	109	0.039		
B0045179		3.00	<0.5	<5	30	101	0.019		
B0045180		2.99	<0.5	<5	30	99	<0.005		
B0045181		2.62	<0.5	<5	26	92	<0.005		
B0045182		2.85	<0.5	<5	73	93	0.046		
B0045183		2.99	<0.5	6	76	93	0.010		
B0045184		2.73	<0.5	5	34	95	0.005		
B0045185		0.07	<0.5	<5	22	38	<0.005		
B0045186		2.53	<0.5	<5	40	97	0.104		
B0045187		2.66	<0.5	11	53	96	0.414		
B0045188		2.84	<0.5	<5	41	109	0.108		
B0045189		2.80	<0.5	<5	44	85	0.830		
B0045190		2.92	<0.5	<5	37	95	0.948		
B0045191		2.82	<0.5	<5	34	105	0.081		
B0045192		2.06	<0.5	6	41	92	0.149		
B0045193		2.00	<0.5	<5	25	106	0.020		
B0045194		2.07	<0.5	11	21	95	0.552		
B0045195		1.07	<0.5	<5	5	108	<0.005		
B0045196		0.94	<0.5	5	10	26	0.021		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20051286

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045197		1.84	<0.5	5	10	24	0.049		
B0045198		0.07	0.6	6260	52	69	6.38	6.80	
B0045199		2.07	<0.5	7	8	25	0.180		
B0045200		2.16	<0.5	<5	7	24	0.023		
B0045201		0.48	<0.5	7	6	26	<0.005		
B0045202		1.97	<0.5	<5	2	30	0.384		
B0045203		2.05	<0.5	<5	9	29	0.043		
B0045204		2.02	<0.5	<5	7	29	0.140		
B0045205		2.35	<0.5	<5	6	26	0.123		
B0045206		1.99	<0.5	<5	4	27	0.149		
B0045207		1.97	<0.5	6	11	30	0.426		
B0045208		1.07	<0.5	<5	15	23	0.058		
B0045209		1.25	<0.5	7	48	100	0.060		
B0045210		2.27	<0.5	5	6	117	<0.005		
B0045211		0.07	<0.5	<5	21	36	<0.005		
B0045212		2.25	<0.5	<5	4	116	<0.005		
B0045213		2.03	<0.5	5	3	114	<0.005		
B0045214		1.95	<0.5	<5	14	124	<0.005		
B0045215		1.27	<0.5	<5	8	123	<0.005		
B0045216		1.53	<0.5	<5	4	150	<0.005		
B0045217		1.34	<0.5	<5	3	143	<0.005		
B0045218		0.77	<0.5	<5	6	105	0.129		
B0045219		2.19	<0.5	6	4	124	0.024		
B0045220		2.16	<0.5	6	7	117	0.095		
B0045221		2.25	<0.5	<5	6	124	<0.005		2.79
B0045222		2.23	<0.5	6	8	140	0.025		
B0045223		2.30	0.8	15	13	112	4.49	3.91	
B0045224		0.07	1.3	15	42	89	1.035		
B0045225		1.26	1.9	17	3	111	4.61	5.27	
B0045226		2.23	2.8	14	7	40	8.14	7.94	
B0045227		2.62	<0.5	9	6	100	0.304		
B0045228		2.16	<0.5	6	4	92	0.035		
B0045229		2.17	<0.5	<5	4	114	0.021		
B0045230		2.10	<0.5	9	5	150	0.009		
B0045231		2.15	<0.5	15	7	140	0.053		
B0045232		2.07	<0.5	10	5	137	0.066		
B0045233		2.27	<0.5	22	10	141	0.022		
B0045234		1.85	<0.5	<5	10	34	<0.005		



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CERTIFICATE TB2005552

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB2005552

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045391		0.07	<0.5	<5	21	37	<0.005		
B0045392		1.14	<0.5	<5	13	88	<0.005		
B0045393		1.98	<0.5	<5	21	171	0.005		
B0045394		2.49	<0.5	<5	63	152	0.008		
B0045395		2.39	<0.5	<5	87	129	0.007		
B0045396		2.41	<0.5	<5	30	118	<0.005		
B0045397		2.28	<0.5	<5	16	117	<0.005		
B0045398		2.43	<0.5	<5	24	116	<0.005		
B0045399		2.34	<0.5	<5	30	115	0.014		
B0045400		2.30	<0.5	<5	36	114	<0.005		
B0045401		2.29	<0.5	<5	57	116	0.062		
B0045402		2.45	<0.5	<5	24	123	0.006		
B0045403		2.24	<0.5	<5	31	156	<0.005		
B0045404		2.22	<0.5	<5	33	178	<0.005		2.79
B0045405		2.12	<0.5	<5	37	250	<0.005		
B0045406		0.07	1.2	15	46	94	1.065		
B0045407		2.34	<0.5	<5	68	499	0.005		
B0045408		2.34	<0.5	<5	153	3660	0.049		
B0045409		2.43	0.7	<5	271	3540	0.020		
B0045410		2.28	<0.5	<5	88	756	<0.005		
B0045411		2.23	<0.5	<5	54	368	<0.005		
B0045412		2.12	<0.5	<5	47	254	0.005		
B0045413		2.32	<0.5	<5	73	246	0.012		
B0045414		2.28	<0.5	<5	59	171	<0.005		
B0045415		2.13	<0.5	<5	68	135	<0.005		
B0045416		2.82	<0.5	<5	124	116	<0.005		
B0045417		1.89	<0.5	<5	81	134	<0.005		
B0045418		2.14	<0.5	<5	99	128	<0.005		
B0045419		0.07	<0.5	<5	21	37	0.006		
B0045420		2.24	<0.5	<5	130	146	<0.005		
B0045421		2.23	0.5	<5	137	123	<0.005		
B0045422		2.23	<0.5	<5	80	116	<0.005		
B0045423		2.40	<0.5	<5	58	105	<0.005		
B0045424		2.49	<0.5	6	65	112	<0.005		
B0045425		2.24	<0.5	<5	106	131	<0.005		
B0045426		2.41	<0.5	5	49	141	<0.005		2.77
B0045427		2.51	<0.5	<5	32	106	<0.005		
B0045428		2.18	<0.5	5	81	117	<0.005		
B0045429		2.30	<0.5	5	3	88	<0.005		
B0045430		2.39	<0.5	<5	5	88	<0.005		



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB2005552
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045431		2.46	<0.5	5	19	85	<0.005	NSS	
B0045432		0.07	1.1	6220	50	67	6.79		
B0045433		2.16	<0.5	21	35	88	<0.005		
B0045434		2.24	<0.5	9	24	89	<0.005		
B0045435		0.52	<0.5	6	11	27	0.005		
B0045436		2.55	<0.5	<5	16	84	<0.005		
B0045437		2.53	<0.5	<5	28	73	<0.005		
B0045438		2.27	<0.5	<5	24	70	<0.005		
B0045439		2.49	<0.5	<5	24	77	<0.005		
B0045440		2.30	<0.5	<5	54	73	<0.005		
B0045441		2.62	<0.5	<5	17	71	<0.005		
B0045442		2.38	<0.5	<5	17	72	<0.005		
B0045443		2.61	<0.5	5	28	70	<0.005		
B0045444		2.66	<0.5	<5	60	102	<0.005		
B0045445		0.07	<0.5	<5	21	34	<0.005		
B0045446		2.58	<0.5	<5	80	104	<0.005		
B0045447		2.41	<0.5	<5	57	105	<0.005		
B0045448		2.56	<0.5	5	37	124	<0.005		
B0045449		2.47	<0.5	<5	61	112	<0.005		
B0045450		2.45	<0.5	<5	81	113	<0.005	2.75	
B0045451		2.58	<0.5	5	42	116	<0.005		
B0045452		2.56	<0.5	5	20	112	<0.005		
B0045453		2.67	<0.5	<5	33	113	<0.005		
B0045454		2.05	<0.5	<5	69	102	<0.005		
B0045455		2.64	<0.5	<5	51	102	<0.005		
B0045456		2.59	<0.5	6	33	108	<0.005		
B0045457		2.58	<0.5	7	47	106	<0.005		
B0045458		0.07	1.3	18	40	85	1.050		
B0045459		2.34	<0.5	5	81	112	<0.005		
B0045460		1.80	<0.5	<5	104	130	<0.005		
B0045461		2.39	<0.5	<5	32	87	<0.005		
B0045462		1.75	<0.5	<5	17	107	<0.005		
B0045463		1.95	<0.5	<5	8	126	<0.005		
B0045464		2.45	<0.5	<5	7	123	<0.005		
B0045465		2.77	<0.5	<5	33	115	<0.005		
B0045466		2.45	<0.5	<5	5	120	<0.005		
B0045467		2.89	<0.5	<5	11	129	<0.005	2.70	
B0045468		2.57	<0.5	<5	9	136	<0.005		



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CERTIFICATE TB20056444

Project: VanHorne

This report is for 79 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20056444

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0045469		0.07	<0.5	<5	21	36		<0.005		
B0045470		2.91	<0.5	<5	42	92		<0.005		
B0045471		2.70	<0.5	<5	51	92		<0.005		
B0045472		2.67	<0.5	<5	50	83		<0.005		2.85
B0045473		3.56	<0.5	<5	30	117		<0.005		
B0045474		1.93	<0.5	<5	21	114		<0.005		
B0045475		2.67	<0.5	<5	21	130		<0.005		
B0045476		2.55	<0.5	<5	69	134		<0.005		
B0045477		2.52	<0.5	<5	22	145		<0.005		
B0045478		2.60	<0.5	<5	9	144		<0.005		
B0045479		2.61	<0.5	5	28	160		<0.005		
B0045480		2.59	<0.5	<5	23	145		<0.005		2.74
B0045481		2.64	<0.5	<5	9	141		<0.005		
B0045482		2.92	<0.5	<5	31	141		<0.005		
B0045483		2.20	<0.5	<5	38	82		<0.005		
B0045484		0.07	1.5	17	44	96		1.150		
B0045485		3.37	<0.5	<5	41	69		<0.005		
B0045486		2.52	<0.5	<5	32	65		<0.005		
B0045487		2.39	<0.5	<5	34	80		<0.005		
B0045488		3.11	<0.5	<5	32	88		0.010		
B0045489		1.96	<0.5	<5	41	93		<0.005		
B0045490		0.54	<0.5	<5	8	22		<0.005		
B0045491		3.22	<0.5	<5	47	102		<0.005		
B0045492		2.81	<0.5	<5	21	100		<0.005		
B0045493		2.74	<0.5	<5	29	105		<0.005		
B0045494		2.68	<0.5	<5	13	98		<0.005		
B0045495		2.70	<0.5	<5	18	96		<0.005		
B0045496		2.86	<0.5	<5	44	94		<0.005		
B0045497		0.07	0.7	5890	51	71		6.57	NSS	
B0045498		2.72	<0.5	7	55	157		0.005		2.88
B0045499		1.51	<0.5	<5	44	201		<0.005		
B0045500		1.86	<0.5	<5	39	189		0.005		
B0045501		2.42	<0.5	6	28	277		0.011		
B0045502		2.70	<0.5	68	56	1300		0.049		
B0045503		2.09	<0.5	15	48	323		0.031		
B0045504		3.45	0.8	83	239	7070		1.490		
B0045505		2.67	<0.5	6	63	163		0.007		
B0045506		2.81	<0.5	<5	49	115		<0.005		
B0045507		2.67	<0.5	<5	70	107		0.009		
B0045508		2.06	<0.5	<5	38	119		<0.005		



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 25 YORK STREET 17TH FLOOR
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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20056444

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0045509		3.35	<0.5	5	38	96		0.008		
B0045510		0.07	<0.5	<5	21	37		0.009		
B0045511		2.80	<0.5	5	41	104		0.009		
B0045512		2.64	<0.5	<5	38	109		0.007		2.78
B0045513		2.49	<0.5	<5	41	118		0.008		
B0045514		2.53	<0.5	5	44	127		0.008		
B0045515		2.64	<0.5	<5	38	124		0.013		
B0045516		1.55	0.5	10	48	134		0.407		
B0045517		1.72	1.2	8	23	51		2.16		
B0045518		2.23	<0.5	9	40	77		0.712		
B0045519		2.78	<0.5	<5	9	84		0.013		
B0045520		2.74	<0.5	<5	7	96		0.006		
B0045521		2.96	<0.5	<5	11	98		<0.005		
B0045522		2.76	<0.5	<5	9	98		<0.005		
B0045523		0.07	1.4	20	41	88		1.045		
B0045524		1.97	<0.5	<5	37	140		0.007		
B0045525		1.08	<0.5	9	46	163		<0.005		
B0045526		2.58	<0.5	20	34	664		0.070		
B0045527		2.10	<0.5	5	4	136		<0.005		
B0045528		2.70	<0.5	7	27	155		<0.005		
B0045529		1.93	0.9	5	75	112		0.009		
B0045530		1.97	<0.5	5	36	100		<0.005		2.83
B0045531		1.98	<0.5	5	39	125		<0.005		
B0045532		1.95	<0.5	7	23	118		<0.005		
B0045533		2.25	<0.5	<5	21	84		<0.005		
B0045534		2.25	<0.5	5	23	135		0.010		
B0045535		2.10	<0.5	8	42	120		0.015		
B0045536		0.07	<0.5	5	21	35		<0.005		
B0045537		2.10	<0.5	8	17	120		0.006		
B0045538		2.19	<0.5	13	25	93		0.013		
B0045539		2.05	<0.5	10	19	134		0.010		
B0045540		2.16	0.6	17	59	474		0.025		
B0045541		2.47	12.8	64	843	>10000	3.09	2.51		
B0045542		1.67	<0.5	5	14	222		0.011		
B0045543		2.38	<0.5	9	15	169		0.008		
B0045544		1.91	<0.5	9	37	204		0.014		
B0045545		2.12	<0.5	8	48	152		0.007		
B0045546		2.19	0.5	10	64	141		0.007		
B0045547		0.58	<0.5	<5	12	27		<0.005		



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 Account: KECIBQJN

CERTIFICATE TB20057832

Project: VanHorne

This report is for 77 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 11-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20057832

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0045548		1.92	<0.5	7	73	161	0.013		
B0045549		2.24	2.2	11	273	1510	0.037		
B0045550		2.26	<0.5	8	55	178	0.013		
B0045551		0.07	<0.5	<5	21	38	<0.005		
B0045552		2.06	1.4	8	164	315	0.013		
B0045553		2.08	23.6	55	766	8200	0.631		
B0045554		2.08	2.2	60	206	7900	0.135		
B0045555		1.93	<0.5	6	37	163	0.009		
B0045556		2.09	<0.5	9	46	141	0.011		
B0045557		2.13	<0.5	9	36	128	0.010		
B0045558		2.39	5.7	<5	157	6680	1.085		
B0045559		1.73	<0.5	5	24	142	0.010		
B0045560		2.22	<0.5	17	8	122	0.005		
B0045561		2.14	<0.5	12	3	103	<0.005		
B0045562		0.07	0.9	6000	50	69	6.44	6.39	
B0045563		2.22	<0.5	12	3	108	<0.005		
B0045564		2.34	<0.5	5	3	106	<0.005		
B0045565		2.22	<0.5	12	2	118	<0.005		
B0045566		2.14	<0.5	7	1	112	<0.005		
B0045567		2.25	<0.5	5	2	97	<0.005		
B0045568		2.20	<0.5	9	3	106	<0.005		
B0045569		2.15	<0.5	9	2	113	<0.005		
B0045570		2.27	<0.5	6	2	98	0.007		
B0045571		2.41	<0.5	20	3	99	0.013		
B0045572		2.14	<0.5	7	4	113	<0.005		
B0045573		2.19	<0.5	5	3	112	<0.005		
B0045574		1.38	1.8	<5	18	187	0.999		
B0045575		0.07	<0.5	<5	25	39	<0.005		
B0045576		1.68	1.1	<5	113	1395	0.160		
B0045577		1.48	0.5	<5	45	416	0.064		
B0045578		2.20	<0.5	<5	9	174	0.007		
B0045579		2.11	<0.5	<5	25	199	0.010	2.83	
B0045580		2.10	1.6	<5	333	5830	0.144		
B0045581		2.17	1.7	<5	146	7780	0.120		
B0045582		2.16	<0.5	<5	18	206	0.008		
B0045583		2.19	<0.5	<5	10	171	0.012		
B0045584		2.21	<0.5	<5	6	149	0.012		
B0045585		2.28	0.5	<5	6	133	0.010		
B0045586		2.37	<0.5	<5	4	122	<0.005		
B0045587		2.22	<0.5	<5	4	121	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20057832

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045588		0.07	1.6	18	44	93	1.045		
B0045589		2.10	0.5	<5	4	119	0.137		
B0045590		2.20	<0.5	<5	8	144	<0.005		
B0045591		2.42	0.5	<5	35	188	0.009		
B0045592		2.09	<0.5	5	28	203	0.014		
B0045593		2.17	0.6	<5	29	149	0.009		
B0045594		2.16	<0.5	8	32	161	0.005		
B0045595		1.93	<0.5	<5	43	82	<0.005		
B0045596		2.16	<0.5	<5	37	69	<0.005		
B0045597		2.07	<0.5	<5	31	81	<0.005		
B0045598		2.20	<0.5	<5	33	101	<0.005		
B0045599		2.29	<0.5	<5	46	115	0.041		
B0045600		2.75	0.5	<5	75	153	0.008		
B0045601		0.07	<0.5	<5	21	36	<0.005		
B0045602		2.40	<0.5	<5	40	98	<0.005		
B0045603		2.22	<0.5	<5	4	98	<0.005		
B0045604		2.58	<0.5	<5	5	107	<0.005		
B0045605		2.07	<0.5	<5	8	174	1.685		
B0045606		2.31	<0.5	<5	3	117	0.011		
B0045607		2.49	0.9	<5	14	118	0.750		
B0045608		2.90	<0.5	<5	2	103	0.008		
B0045609		1.61	<0.5	<5	3	131	<0.005		
B0045610		2.33	<0.5	<5	7	130	<0.005		
B0045611		2.34	<0.5	<5	22	118	0.008		
B0045612		2.22	<0.5	<5	106	125	<0.005		
B0045613		2.19	<0.5	<5	142	124	<0.005		
B0045614		0.07	0.6	6100	50	65	7.08	NSS	
B0045615		2.57	<0.5	<5	129	112	0.005		
B0045616		2.22	<0.5	<5	10	114	<0.005		
B0045617		2.32	<0.5	<5	12	121	0.011		
B0045618		2.50	<0.5	<5	13	138	0.021		
B0045619		2.12	<0.5	<5	5	138	<0.005		
B0045620		2.27	<0.5	<5	35	142	<0.005		
B0045621		2.20	<0.5	<5	97	133	<0.005		
B0045622		2.46	<0.5	<5	79	132	<0.005		
B0045623		2.21	<0.5	<5	187	151	0.013		
B0045624		2.27	<0.5	<5	48	118	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20057832

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 33%;">OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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 Account: KECIBQJN

CERTIFICATE TB20064004

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20064004

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
	Analyte Units LOD	Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045625		0.07	<0.5	<5	23	36	<0.005		
B0045626		1.22	<0.5	<5	77	154	0.005		
B0045627		1.47	<0.5	9	64	125	0.032		
B0045628		2.12	<0.5	<5	30	101	0.856		
B0045629		2.30	<0.5	<5	72	98	0.173		
B0045630		2.26	<0.5	<5	65	102	0.007		
B0045631		1.40	<0.5	16	72	158	0.006		
B0045632		3.16	<0.5	<5	159	73	0.139		
B0045633		2.34	<0.5	<5	11	91	0.009		
B0045634		2.30	<0.5	<5	5	62	0.012		
B0045635		2.42	<0.5	<5	5	35	0.316		
B0045636		2.05	<0.5	<5	30	85	0.136		
B0045637		2.39	<0.5	<5	116	49	0.010		
B0045638		2.28	<0.5	<5	60	60	<0.005		
B0045639		2.18	<0.5	<5	71	51	0.103		
B0045640		0.07	1.7	14	44	93	1.035		
B0045641		2.32	<0.5	<5	160	73	0.014		
B0045642		1.84	<0.5	<5	370	195	0.021		
B0045643		2.45	<0.5	<5	9	85	<0.005		
B0045644		2.15	<0.5	<5	5	85	0.084		
B0045645		2.11	<0.5	<5	2	98	<0.005		
B0045646		1.91	<0.5	<5	1	104	<0.005		
B0045647		2.16	<0.5	<5	1	102	<0.005		
B0045648		0.96	<0.5	<5	2	95	<0.005		
B0045649		1.80	<0.5	<5	4	66	<0.005		
B0045650		1.91	<0.5	<5	1	95	<0.005		
B0045651		2.25	<0.5	<5	1	92	<0.005		
B0045652		2.56	<0.5	<5	1	83	<0.005		
B0045653		0.07	<0.5	<5	21	37	<0.005		
B0045654		2.07	<0.5	<5	2	91	<0.005		
B0045655		2.40	<0.5	<5	1	82	<0.005	2.81	
B0045656		2.27	<0.5	<5	4	87	0.005		
B0045657		2.26	<0.5	<5	4	99	<0.005		
B0045658		2.59	<0.5	<5	1	91	<0.005		
B0045659		2.21	<0.5	<5	80	89	0.019		
B0045660		2.29	<0.5	<5	44	104	<0.005		
B0045661		2.29	<0.5	<5	56	89	0.007		
B0045662		1.31	<0.5	<5	126	93	0.056		
B0045663		1.55	<0.5	<5	33	73	0.544		
B0045664		1.63	<0.5	9	90	71	0.579		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20064004

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045665		2.28	<0.5	<5	71	71	0.010		
B0045666		0.07	0.8	5960	47	65	6.73	6.62	
B0045667		2.29	0.8	33	208	99	0.057		
B0045668		2.25	0.6	<5	80	105	0.017		
B0045669		0.49	<0.5	<5	6	20	<0.005		
B0045670		2.38	<0.5	<5	8	94	<0.005		2.79
B0045671		2.35	<0.5	<5	71	103	0.006		
B0045672		1.28	<0.5	<5	9	55	<0.005		
B0045673		1.27	<0.5	<5	38	169	0.010		
B0045674		1.56	<0.5	5	15	93	0.037		
B0045675		2.24	<0.5	<5	15	149	<0.005		
B0045676		2.10	<0.5	<5	7	39	0.053		
B0045677		2.07	<0.5	<5	10	34	0.073		
B0045678		2.07	<0.5	<5	11	38	0.161		
B0045679		0.07	<0.5	<5	20	36	<0.005		
B0045680		2.12	<0.5	<5	12	37	0.391		2.77
B0045681		2.15	<0.5	<5	9	36	0.358		
B0045682		2.38	<0.5	<5	14	35	0.911		
B0045683		2.23	<0.5	<5	12	32	0.556		
B0045684		2.42	<0.5	<5	10	32	0.217		
B0045685		2.12	<0.5	<5	14	34	0.526		
B0045686		2.04	<0.5	<5	11	31	0.361		
B0045687		2.55	0.5	<5	12	30	1.135		
B0045688		1.61	<0.5	<5	7	30	2.77		
B0045689		1.16	<0.5	<5	8	63	1.405		
B0045690		1.23	0.5	<5	10	53	1.830		
B0045691		1.89	<0.5	<5	4	23	0.019		
B0045692		0.07	1.4	17	41	88	1.035		
B0045693		2.10	<0.5	<5	6	22	0.011		
B0045694		2.35	<0.5	<5	5	19	0.094		
B0045695		2.43	<0.5	<5	3	20	0.006		
B0045696		1.98	<0.5	<5	12	24	0.101		
B0045697		1.80	<0.5	<5	6	20	0.100		
B0045698		2.05	<0.5	<5	6	21	0.015		
B0045699		1.56	<0.5	<5	4	21	0.007		
B0045700		1.83	<0.5	8	10	75	1.055		
B0045701		1.47	<0.5	<5	8	73	0.061		
B0045702		1.47	<0.5	<5	22	91	<0.005		



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 Finalized Date: 15-APR-2020
 Account: KECIBQJN

CERTIFICATE TB20065375

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 19-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Finalized Date: 15-APR-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20065375

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045703		0.07	<0.5	<5	19	34	0.006		
B0045704		1.23	<0.5	<5	36	101	0.010		
B0045705		2.14	<0.5	<5	16	119	0.105		
B0045706		1.69	<0.5	<5	8	111	0.005		
B0045707		1.39	<0.5	<5	6	73	0.012		
B0045708		2.36	<0.5	<5	2	83	0.046		
B0045709		2.20	<0.5	<5	<1	76	0.846	2.82	
B0045710		1.99	<0.5	<5	6	72	0.007		
B0045711		2.16	<0.5	<5	6	61	0.341		
B0045712		2.23	<0.5	<5	2	54	0.020		
B0045713		2.08	<0.5	<5	3	63	0.200		
B0045714		2.46	<0.5	<5	3	58	0.096		
B0045715		1.05	<0.5	<5	6	96	0.416		
B0045716		2.05	<0.5	<5	2	73	<0.005		
B0045717		2.38	<0.5	<5	1	73	0.032		
B0045718		0.07	1.5	19	40	90	1.115		
B0045719		2.29	0.5	6	8	119	1.650		
B0045720		2.07	<0.5	<5	3	79	0.016		
B0045721		1.35	<0.5	<5	20	117	0.011		
B0045722		1.88	<0.5	<5	24	99	<0.005		
B0045723		1.87	<0.5	<5	26	96	0.007		
B0045724		0.36	<0.5	<5	6	17	<0.005		
B0045725		2.21	<0.5	<5	42	93	<0.005		
B0045726		2.31	<0.5	<5	20	80	<0.005		
B0045727		1.56	<0.5	<5	9	65	0.061		
B0045728		1.34	<0.5	<5	36	67	<0.005		
B0045729		1.54	<0.5	5	33	69	0.078		
B0045730		2.25	<0.5	<5	28	72	<0.005		
B0045731		0.07	1.9	6100	49	69	6.07	NSS	
B0045732		1.92	<0.5	7	36	80	0.015		
B0045733		2.54	<0.5	<5	31	78	0.047		
B0045734		2.45	<0.5	<5	27	83	0.011		
B0045735		1.10	<0.5	<5	15	82	0.019		
B0045736		1.37	<0.5	<5	12	91	0.026		
B0045737		2.18	<0.5	<5	11	72	<0.005		
B0045738		2.41	<0.5	<5	22	57	0.391		
B0045739		1.88	<0.5	<5	6	70	<0.005		
B0045740		2.35	<0.5	<5	3	82	0.059		
B0045741		2.10	<0.5	<5	26	96	0.006		
B0045742		2.38	<0.5	<5	47	86	0.137		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20065375

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045743		2.05	<0.5	<5	19	64	<0.005		
B0045744		0.07	<0.5	<5	20	37	<0.005		
B0045745		2.61	<0.5	<5	9	102	0.006		
B0045746		1.38	<0.5	<5	4	101	0.044		
B0045747		2.34	<0.5	<5	13	91	<0.005		
B0045748		2.10	<0.5	<5	8	93	0.452		
B0045749		2.38	<0.5	<5	2	102	<0.005		
B0045750		1.62	<0.5	<5	5	79	0.963		
B0045751		2.47	<0.5	<5	15	99	0.133		
B0045752		1.84	<0.5	<5	36	78	0.122		
B0045753		1.30	<0.5	<5	43	72	0.359		
B0045754		1.96	<0.5	<5	26	91	<0.005		
B0045755		2.46	<0.5	<5	34	76	0.022		
B0045756		1.31	<0.5	7	31	66	1.630		
B0045757		0.07	1.6	15	42	91	1.070		
B0045758		2.06	<0.5	<5	22	82	0.024		
B0045759		1.76	<0.5	<5	26	94	0.008		
B0045760		2.32	<0.5	<5	18	94	0.007		
B0045761		1.62	<0.5	<5	19	77	<0.005		
B0045762		2.64	<0.5	<5	25	88	0.025		
B0045763		1.44	<0.5	<5	4	78	0.012		
B0045764		1.52	<0.5	<5	2	79	<0.005		
B0045765		1.49	<0.5	5	2	71	0.006		
B0045766		2.10	<0.5	<5	5	82	<0.005		
B0045767		1.27	<0.5	<5	19	86	0.238		
B0045768		1.16	<0.5	<5	18	73	<0.005		
B0045769		1.34	<0.5	<5	5	72	0.046		
B0045770		0.07	<0.5	<5	18	34	<0.005		
B0045771		2.31	<0.5	<5	4	98	<0.005		
B0045772		2.50	<0.5	<5	5	73	0.243		
B0045773		2.46	<0.5	<5	6	83	0.126		
B0045774		1.63	<0.5	<5	9	84	0.020		
B0045775		1.68	<0.5	<5	21	61	0.767		
B0045776		1.38	<0.5	<5	2	24	0.282		
B0045777		1.19	<0.5	<5	2	22	0.366		
B0045778		1.39	<0.5	8	3	24	1.220		
B0045779		1.05	3.1	24	8	35	>10.0	18.00	
B0045780		1.11	<0.5	<5	3	24	0.196		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20065375

	CERTIFICATE COMMENTS												
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: NSS is non-sufficient sample. ALL METHODS</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table><tr><td>CRU-31</td><td>CRU-QC</td><td>LOG-21</td><td>LOG-23</td></tr><tr><td>PUL-31</td><td>PUL-QC</td><td>SPL-21</td><td>WEI-21</td></tr></table> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-AA24</td><td>Au-GRA22</td><td>ME-ICP61</td><td>OA-GRA08b</td></tr></table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-31	PUL-QC	SPL-21	WEI-21										
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b										



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CERTIFICATE TB20066220

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 20-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20066220

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0045859		0.11	<0.5	<5	19	42	<0.005		
B0045860		1.73	<0.5	<5	16	140	<0.005		
B0045861		2.32	<0.5	<5	9	180	0.010		
B0045862		2.33	<0.5	<5	41	207	0.009		
B0045863		2.20	2.9	16	368	4440	0.641		
B0045864		2.36	<0.5	<5	40	90	0.310		
B0045865		2.31	<0.5	<5	27	81	<0.005		
B0045866		2.08	<0.5	<5	34	99	<0.005		
B0045867		2.20	<0.5	<5	39	94	<0.005		
B0045868		2.90	<0.5	<5	48	94	<0.005		
B0045869		2.53	<0.5	<5	14	101	<0.005		
B0045870		2.21	<0.5	<5	27	71	0.006		
B0045871		2.32	<0.5	5	12	79	1.810		
B0045872		2.20	<0.5	<5	16	146	0.099		
B0045873		2.50	<0.5	<5	2	122	<0.005		
B0045874		0.07	0.9	16	42	94	1.100		
B0045875		2.10	<0.5	<5	25	274	0.014		
B0045876		2.38	<0.5	<5	80	233	0.024		
B0045877		2.53	<0.5	<5	18	206	0.018		
B0045878		2.42	<0.5	<5	12	128	0.041		
B0045879		1.12	<0.5	<5	28	82	0.029		
B0045880		1.19	<0.5	<5	39	73	0.011		
B0045881		2.26	<0.5	<5	36	61	0.008		
B0045882		1.96	<0.5	<5	27	60	0.006		
B0045883		1.44	<0.5	<5	17	64	<0.005		
B0045884		1.74	<0.5	<5	52	57	0.006		
B0045885		1.79	<0.5	<5	41	63	0.007		
B0045886		1.10	<0.5	<5	72	92	0.006		
B0045887		0.11	<0.5	<5	19	42	<0.005		
B0045888		1.18	<0.5	<5	110	88	0.020		
B0045889		1.11	<0.5	<5	10	59	<0.005		
B0045890		2.21	<0.5	<5	<1	120	<0.005		
B0045891		2.27	<0.5	<5	1	109	<0.005		
B0045892		2.13	<0.5	<5	3	121	<0.005		
B0045893		2.13	<0.5	<5	3	135	<0.005		
B0045894		1.42	<0.5	<5	4	131	<0.005		
B0045895		2.54	<0.5	<5	4	122	<0.005		
B0045896		2.38	<0.5	<5	4	138	<0.005		
B0045897		2.79	<0.5	<5	4	151	<0.005		
B0045898		1.96	<0.5	<5	5	147	<0.005		



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20066220

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045899		2.28	<0.5	<5	20	135	<0.005		
B0045900		0.07	1.0	6400	53	75	6.55	6.33	
B0045901		2.27	<0.5	6	7	142	<0.005		
B0045902		1.27	<0.5	<5	2	134	<0.005		
B0045903		0.53	<0.5	5	8	24	<0.005		
B0045904		1.91	<0.5	<5	3	120	<0.005		
B0045905		1.79	<0.5	<5	4	136	<0.005		
B0045906		1.93	<0.5	<5	62	124	0.005		
B0045907		2.28	<0.5	<5	34	145	<0.005		
B0045908		2.47	<0.5	7	69	183	0.136		
B0045909		2.25	<0.5	<5	33	118	<0.005		2.84
B0045910		2.34	<0.5	<5	53	130	0.030		
B0045911		1.16	<0.5	19	10	72	2.57		
B0045912		1.42	<0.5	23	14	64	2.37		
B0045913		0.11	<0.5	<5	18	39	<0.005		
B0045914		0.94	<0.5	19	8	71	0.345		
B0045915		1.05	<0.5	9	4	77	0.568		
B0045916		1.21	<0.5	6	8	141	0.054		
B0045917		1.17	<0.5	<5	7	117	0.020		
B0045918		1.12	<0.5	<5	5	108	<0.005		
B0045919		1.16	<0.5	<5	13	126	0.150		
B0045920		1.20	<0.5	20	4	75	0.974		
B0045921		1.08	<0.5	<5	6	129	0.007		
B0045922		1.11	<0.5	<5	6	119	<0.005		
B0045923		1.12	<0.5	<5	6	116	0.007		
B0045924		1.18	<0.5	6	5	143	0.006		
B0045925		1.09	<0.5	8	6	143	0.043		
B0045926		0.07	1.7	18	42	87	1.025		
B0045927		1.17	0.5	24	2	84	2.03		
B0045928		1.25	<0.5	8	7	151	1.800		
B0045929		1.26	<0.5	7	6	137	0.542		
B0045930		1.14	<0.5	11	9	101	0.162		
B0045931		2.49	<0.5	5	4	101	0.008		
B0045932		2.30	<0.5	6	4	121	<0.005		
B0045933		2.35	<0.5	<5	2	154	0.016		
B0045934		2.33	<0.5	<5	3	155	<0.005		
B0045935		1.17	<0.5	<5	8	144	0.050		
B0045936		1.14	0.7	5	5	82	3.06	2.75	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20066220

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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 Account: KECIBQJN

CERTIFICATE TB20068022

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 23-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20068022

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045781		0.50	<0.5	<5	7	25	<0.005		
B0045782		1.06	<0.5	<5	7	24	0.201		
B0045783		1.19	<0.5	<5	<1	21	0.286		
B0045784		1.27	<0.5	<5	3	15	0.213		
B0045785		0.07	<0.5	<5	19	37	<0.005		
B0045786		1.07	<0.5	<5	6	28	0.369		
B0045787		2.10	<0.5	<5	13	26	0.269		
B0045788		2.13	<0.5	<5	9	29	0.136		2.78
B0045789		2.24	<0.5	<5	9	30	0.347		
B0045790		1.57	<0.5	<5	13	44	0.828		
B0045791		2.48	<0.5	<5	16	51	1.500		
B0045792		1.15	<0.5	<5	21	39	0.270		
B0045793		1.76	<0.5	<5	11	40	0.189		
B0045794		2.34	<0.5	<5	10	38	0.308		
B0045795		2.22	<0.5	<5	5	32	0.119		
B0045796		0.07	0.5	6050	51	71	6.48	NSS	
B0045797		2.21	0.7	5	4	30	0.289		
B0045798		2.20	<0.5	<5	6	30	0.353		
B0045799		1.19	1.4	<5	8	28	2.03		
B0045800		1.29	<0.5	<5	8	39	0.520		
B0045801		1.63	<0.5	<5	15	38	0.177		
B0045802		1.37	<0.5	<5	2	23	0.452		
B0045803		1.59	<0.5	<5	8	31	0.091		
B0045804		1.10	<0.5	<5	9	35	0.086		
B0045805		1.05	<0.5	<5	9	34	0.333		
B0045806		1.19	<0.5	<5	7	33	0.178		
B0045807		1.01	<0.5	<5	8	29	0.221		
B0045808		1.55	<0.5	<5	4	22	0.455		
B0045809		0.07	<0.5	5	19	34	0.008		
B0045810		1.42	<0.5	<5	21	70	0.042		
B0045811		2.54	0.6	<5	6	75	0.394		
B0045812		1.63	<0.5	5	9	70	<0.005		
B0045813		1.24	0.5	<5	61	70	0.576		
B0045814		1.68	<0.5	<5	25	64	0.358		
B0045815		1.65	0.5	<5	6	73	1.520		
B0045816		1.17	0.5	<5	5	71	0.309		
B0045817		1.15	<0.5	<5	4	77	0.835		
B0045818		1.18	0.6	<5	4	79	0.312		
B0045819		1.13	1.0	8	8	86	3.68	3.34	
B0045820		1.26	1.2	10	9	268	4.87	5.05	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20068022

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0045821		0.07	<0.5	<5	19	34	<0.005		
B0045822		1.08	<0.5	<5	6	180	0.512		
B0045823		1.27	<0.5	<5	4	123	0.544		
B0045824		1.13	<0.5	<5	7	95	0.019		
B0045825		1.24	<0.5	<5	6	90	0.017		
B0045826		0.07	98.9	217	4450	3820	>10.0	26.2	
B0045827		1.10	<0.5	6	7	89	0.011		
B0045828		1.17	1.1	<5	14	77	1.610		
B0045829		1.00	<0.5	<5	16	94	0.005		
B0045830		2.05	0.5	<5	6	80	<0.005		
B0045831		2.08	<0.5	<5	6	84	<0.005		
B0045832		2.15	<0.5	5	6	79	<0.005		
B0045833		2.18	0.5	<5	6	72	0.007		
B0045834		2.05	<0.5	<5	6	78	0.005		
B0045835		0.11	<0.5	<5	19	39	<0.005		
B0045836		2.26	<0.5	<5	7	84	0.048		
B0045837		2.31	0.6	<5	13	82	0.009		
B0045838		2.16	0.5	5	6	56	0.026		
B0045839		1.23	<0.5	<5	9	81	0.232		
B0045840		2.07	<0.5	5	7	78	<0.005		
B0045841		1.20	<0.5	<5	6	123	<0.005		
B0045842		1.15	<0.5	<5	7	125	<0.005		
B0045843		1.21	0.8	<5	3	75	0.742		
B0045844		2.12	<0.5	<5	5	104	0.007		
B0045845		2.29	<0.5	<5	37	81	0.021		
B0045846		1.34	0.7	<5	83	144	0.026		
B0045847		0.96	1.0	<5	88	218	0.032		
B0045848		0.07	0.7	6230	49	67	5.85	NSS	
B0045849		2.21	<0.5	16	33	105	0.026		
B0045850		2.15	0.6	<5	42	108	0.011		
B0045851		2.33	<0.5	<5	45	93	0.006		
B0045852		2.32	<0.5	5	50	153	<0.005		
B0045853		2.53	<0.5	9	36	143	<0.005		
B0045854		2.06	<0.5	<5	10	142	<0.005		
B0045855		2.20	<0.5	<5	8	136	<0.005		
B0045856		2.27	0.6	<5	33	137	<0.005		
B0045857		2.23	<0.5	<5	40	137	<0.005		
B0045858		2.59	<0.5	9	51	131	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20068022

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table> <tr> <td>Au-AA24</td> <td>Au-GRA22</td> <td>ME-ICP61</td> <td>OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20069061

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20069061

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045937		0.11	<0.5	<5	20	41	<0.005		
B0045938		2.37	<0.5	<5	4	164	0.011		
B0045939		2.34	<0.5	<5	4	176	0.005		
B0045940		2.40	<0.5	<5	6	228	0.026		
B0045941		2.35	0.6	10	5	160	0.021		
B0045942		2.34	<0.5	<5	3	177	<0.005		
B0045943		2.38	<0.5	<5	4	168	<0.005		
B0045944		1.37	0.5	5	4	151	0.015		
B0045945		1.11	<0.5	<5	4	155	0.013		
B0045946		2.34	<0.5	<5	3	149	<0.005		
B0045947		2.29	<0.5	<5	10	174	<0.005		
B0045948		2.28	<0.5	<5	7	174	<0.005		
B0045949		2.44	<0.5	<5	11	168	<0.005		
B0045950		2.34	<0.5	<5	10	174	<0.005		
B0045951		2.33	<0.5	<5	6	153	<0.005		
B0045952		0.07	1.5	15	42	89	1.025		
B0045953		2.30	<0.5	<5	9	150	<0.005		
B0045954		2.41	<0.5	<5	20	142	<0.005		
B0045955		2.27	<0.5	<5	63	134	<0.005		
B0045956		2.18	0.8	<5	182	136	0.012		2.84
B0045957		2.24	<0.5	<5	10	146	0.007		
B0045958		0.65	<0.5	<5	7	25	<0.005		
B0045959		2.29	<0.5	<5	13	169	<0.005		
B0045960		2.24	<0.5	<5	42	133	0.037		
B0045961		2.49	<0.5	<5	30	148	<0.005		
B0045962		0.93	<0.5	<5	104	118	0.482		
B0045963		0.93	<0.5	<5	77	154	0.007		
B0045964		2.22	<0.5	<5	97	169	<0.005		2.89
B0045965		0.07	1.1	6500	52	72	6.51	6.55	
B0045966		1.15	<0.5	6	102	215	0.005		
B0045967		1.11	<0.5	<5	18	126	<0.005		
B0045968		1.09	0.5	6	98	104	0.011		
B0045969		1.26	<0.5	<5	77	122	0.368		
B0045970		2.51	<0.5	<5	101	131	<0.005		
B0045971		1.86	<0.5	<5	113	147	0.011		
B0045972		1.41	0.8	11	81	128	0.615		
B0045973		1.35	<0.5	<5	74	186	0.008		
B0045974		1.73	<0.5	<5	70	171	<0.005		
B0045975		2.46	0.9	<5	195	196	0.010		
B0045976		1.19	1.0	<5	121	190	0.010		2.97



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20069061

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0045977		1.27	<0.5	<5	81	187	0.007		
B0045978		0.11	<0.5	<5	19	40	0.020		
B0045979		1.18	<0.5	<5	87	197	0.008		
B0045980		1.38	<0.5	<5	87	244	0.009		
B0045981		2.36	<0.5	<5	64	211	0.051		
B0045982		1.17	1.0	<5	71	197	3.19	6.32	
B0045983		1.17	<0.5	<5	59	214	0.039		
B0045984		1.28	<0.5	<5	72	220	0.087		
B0045985		1.17	2.2	<5	88	195	3.40	3.58	
B0045986		2.41	<0.5	<5	70	219	0.023		
B0045987		1.32	2.0	<5	64	234	4.89	5.63	
B0045988		1.94	<0.5	<5	63	213	0.040		
B0045989		1.35	<0.5	<5	58	211	0.452		
B0045990		1.14	<0.5	<5	67	232	1.315		
B0045991		0.07	1.4	15	42	90	1.060		
B0045992		1.25	1.0	<5	91	220	8.95	3.26	
B0045993		1.24	<0.5	<5	68	335	0.348		
B0045994		1.14	<0.5	<5	52	234	0.910		
B0045995		1.22	<0.5	<5	60	242	0.460		
B0045996		1.15	<0.5	<5	59	283	1.185		
B0045997		1.35	<0.5	<5	42	232	0.479		
B0045998		1.61	<0.5	<5	29	247	0.047		
B0045999		1.52	<0.5	<5	27	263	0.009		
B0046000		1.24	<0.5	<5	19	239	0.010		
B0046001		1.08	<0.5	<5	19	233	0.061		
B0046002		1.12	<0.5	<5	16	246	0.010		
B0046003		1.18	<0.5	<5	18	232	0.106		
B0046004		0.11	<0.5	<5	20	41	0.020		
B0046005		1.19	<0.5	<5	12	239	0.065		
B0046006		1.09	<0.5	<5	11	256	0.019		
B0046007		1.03	<0.5	<5	15	292	0.017		
B0046008		1.13	<0.5	<5	31	236	0.558		
B0046009		1.08	<0.5	<5	29	243	0.008		
B0046010		1.17	<0.5	<5	28	235	0.006		
B0046011		1.19	<0.5	<5	100	259	0.031		
B0046012		1.05	2.9	<5	171	213	8.89	6.36	
B0046013		1.04	<0.5	<5	115	259	0.032		
B0046014		2.29	1.4	<5	76	325	1.600		



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CERTIFICATE OF ANALYSIS TB20069061

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20070792

Project: VanHorne

This report is for 79 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20070792

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046015		0.58	<0.5	<5	9	22	<0.005		
B0046016		1.24	<0.5	<5	57	307	0.052		
B0046017		1.15	1.2	<5	15	215	5.54	3.86	
B0046018		1.58	<0.5	<5	12	298	0.036		
B0046019		0.11	<0.5	<5	18	39	0.019		
B0046020		1.01	<0.5	<5	14	338	0.037		
B0046021		1.16	1.4	<5	17	300	1.720		
B0046022		1.23	<0.5	<5	30	362	0.009		
B0046023		1.10	<0.5	<5	45	517	0.012		
B0046024		2.25	<0.5	<5	44	441	0.010		
B0046025		2.23	<0.5	<5	87	217	0.016		
B0046026		1.04	<0.5	<5	103	181	0.021		
B0046027		1.24	0.6	<5	87	196	0.015		
B0046028		2.28	<0.5	<5	28	78	<0.005		
B0046029		2.19	<0.5	<5	9	78	<0.005		
B0046030		0.07	0.5	6550	52	73	6.70	6.64	
B0046031		2.23	<0.5	8	9	92	0.008		
B0046032		1.12	<0.5	<5	8	119	<0.005		
B0046033		1.38	<0.5	5	16	152	0.035		
B0046034		1.81	<0.5	<5	8	107	0.024		
B0046035		2.03	<0.5	8	22	119	0.016		
B0046036		1.12	0.7	27	125	2390	0.224		
B0046037		1.30	<0.5	<5	34	142	0.006		
B0046038		2.12	<0.5	<5	45	125	0.007		
B0046039		2.26	<0.5	5	35	102	0.016		
B0046040		2.12	<0.5	<5	14	118	0.008		
B0046041		1.69	<0.5	5	22	152	0.011		
B0046042		2.21	4.1	236	196	490	2.89		
B0046043		0.11	<0.5	<5	18	41	<0.005		
B0046044		1.56	<0.5	<5	19	248	0.007		
B0046045		1.35	<0.5	<5	34	176	0.080		
B0046046		2.46	<0.5	8	45	149	0.009		
B0046047		2.39	<0.5	<5	15	148	<0.005		2.78
B0046048		2.59	<0.5	<5	10	143	<0.005		
B0046049		2.01	<0.5	<5	5	143	<0.005		
B0046050		2.32	<0.5	<5	70	206	0.005		2.80
B0046051		2.53	<0.5	<5	41	427	0.007		
B0046052		1.54	<0.5	<5	48	986	0.008		
B0046053		1.51	0.7	<5	82	7270	0.016		
B0046054		1.04	<0.5	<5	22	293	0.070		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20070792

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0046055		1.09	<0.5	<5	70	794	0.008		
B0046056		0.07	1.4	14	40	92	1.035		
B0046057		1.48	<0.5	<5	87	467	<0.005		
B0046058		1.53	<0.5	<5	35	204	<0.005		2.82
B0046059		1.59	1.2	<5	323	195	0.017		
B0046060		2.06	<0.5	<5	24	237	<0.005		
B0046061		2.31	<0.5	<5	12	201	0.005		
B0046062		0.99	<0.5	<5	13	176	0.009		
B0046063		1.24	<0.5	<5	9	153	0.011		
B0046064		1.08	<0.5	<5	5	157	0.008		
B0046065		2.29	<0.5	<5	6	166	0.008		2.91
B0046066		2.34	<0.5	<5	21	173	0.011		
B0046067		2.52	<0.5	<5	38	222	0.011		
B0046068		2.36	<0.5	<5	6	162	0.005		
B0046069		0.11	<0.5	<5	15	38	<0.005		
B0046070		1.47	<0.5	<5	22	144	0.079		
B0046071		0.85	<0.5	<5	22	81	2.33		
B0046072		1.39	<0.5	<5	2	126	0.008		
B0046073		1.58	<0.5	<5	3	88	0.548		
B0046074		1.41	<0.5	<5	<1	117	0.038		
B0046075		1.44	<0.5	<5	1	110	0.251		
B0046076		1.70	<0.5	<5	9	133	<0.005		
B0046077		2.28	<0.5	<5	12	121	<0.005		
B0046078		1.76	<0.5	<5	17	135	0.006		
B0046079		1.29	<0.5	<5	17	86	6.29		5.39
B0046080		1.75	<0.5	<5	17	149	0.005		
B0046081		1.82	<0.5	<5	11	148	0.005		
B0046082		0.07	0.5	6170	46	68	6.79		NSS
B0046083		1.16	<0.5	6	35	168	0.130		
B0046084		1.92	0.8	<5	105	183	0.020		
B0046085		2.36	<0.5	<5	28	144	0.007		
B0046086		2.44	<0.5	<5	69	149	0.010		
B0046087		1.09	<0.5	<5	72	168	0.009		
B0046088		1.37	0.5	<5	78	110	1.270		
B0046089		2.46	<0.5	<5	69	149	0.013		
B0046090		2.42	<0.5	<5	28	201	0.006		
B0046091		2.60	<0.5	<5	17	177	<0.005		
B0046092		2.46	<0.5	<5	63	164	<0.005		
B0046093		0.11	<0.5	<5	15	38	0.010		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20070792

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-AA24</td> <td>Au-GRA22</td> <td>ME-ICP61</td> <td>OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20070793

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG

KELSEY PRIVETT

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20070793

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046094		2.33	<0.5	<5	101	188		0.011		
B0046095		2.17	<0.5	<5	89	196		0.009		
B0046096		1.90	<0.5	<5	74	162		0.072		
B0046097		1.22	0.7	<5	80	154		1.225		
B0046098		1.95	0.5	<5	73	159		0.053		
B0046099		2.27	<0.5	<5	69	188		0.018		
B0046100		2.79	<0.5	<5	60	179		0.009		
B0046101		2.58	<0.5	<5	100	188		0.018		
B0046102		1.29	<0.5	<5	68	186		0.013		
B0046103		2.39	0.6	5	126	206		0.085		
B0046104		1.01	<0.5	<5	64	229		0.012		
B0046105		2.24	<0.5	<5	62	215		0.020		
B0046106		2.26	<0.5	<5	101	226		0.023		
B0046107		1.15	0.7	<5	128	268		0.031		
B0046108		0.07	1.6	14	42	93		0.999		
B0046109		1.08	<0.5	<5	50	246		0.023		
B0046110		1.35	<0.5	<5	86	292		0.021		
B0046111		1.78	<0.5	<5	42	206		0.007		
B0046112		1.32	<0.5	<5	82	104		0.365		
B0046113		2.32	<0.5	<5	47	136		0.013		
B0046114		2.41	<0.5	<5	18	112		0.007		
B0046115		2.38	<0.5	<5	19	132		0.006		
B0046116		2.40	<0.5	<5	19	126		0.115		
B0046117		2.27	<0.5	<5	17	148		0.008		
B0046118		2.43	<0.5	<5	15	127		0.795		
B0046119		2.34	3.1	<5	946	267		0.151		
B0046120		1.36	1.8	<5	408	254		0.136		
B0046121		0.11	<0.5	<5	19	39		0.031		
B0046122		1.68	<0.5	<5	24	193		<0.005		2.76
B0046123		1.19	<0.5	<5	16	168		0.040		
B0046124		1.52	<0.5	7	27	131		0.386		
B0046125		1.62	<0.5	<5	22	137		0.069		
B0046126		2.41	<0.5	<5	17	149		0.005		
B0046127		2.42	<0.5	<5	27	147		0.014		
B0046128		1.61	<0.5	<5	17	155		0.007		
B0046129		0.70	<0.5	<5	24	157		0.260		
B0046130		1.78	<0.5	<5	41	202		1.885		
B0046131		0.84	0.8	<5	32	180		2.18		
B0046132		2.43	<0.5	<5	25	153		0.060		
B0046133		1.73	<0.5	<5	28	125		0.008		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20070793

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046134		0.07	0.9	6100	49	68		6.71	6.56	
B0046135		1.72	<0.5	8	35	103		0.285		
B0046136		0.88	<0.5	<5	27	151		0.014		
B0046137		0.67	<0.5	<5	8	21		<0.005		
B0046138		1.60	<0.5	<5	16	154		0.108		
B0046139		1.22	<0.5	<5	24	170		0.076		
B0046140		1.19	<0.5	19	32	256		0.038		
B0046141		1.16	<0.5	15	25	176		0.139		
B0046142		1.40	<0.5	18	19	160		0.621		
B0046143		1.15	<0.5	<5	36	317		0.145		
B0046144		1.81	<0.5	5	35	375		0.014		
B0046145		1.22	<0.5	<5	27	401		<0.005		
B0046146		1.26	<0.5	<5	53	319		0.042		
B0046147		0.11	<0.5	<5	20	41		<0.005		
B0046148		1.09	<0.5	<5	22	401		<0.005		
B0046149		2.35	<0.5	6	20	437		<0.005		
B0046150		1.67	0.5	<5	130	3010		0.081		
B0046151		1.70	0.5	5	235	4230		0.045		
B0046152		1.49	<0.5	<5	54	755		0.022		
B0046153		2.44	<0.5	<5	21	677		0.008		
B0046154		2.35	<0.5	<5	11	410		<0.005		
B0046155		1.29	3.7	<5	393	>10000	1.300	0.237		
B0046156		1.23	1.0	<5	188	3810		0.048		
B0046157		1.50	1.2	<5	171	3830		0.068		
B0046158		2.18	<0.5	5	113	1980		0.325		
B0046159		1.28	<0.5	<5	37	302		0.052		
B0046160		0.07	1.4	17	61	102		1.050		
B0046161		1.19	<0.5	<5	20	300		0.009		
B0046162		2.42	<0.5	<5	29	215		0.010		
B0046163		2.45	<0.5	<5	17	217		0.006		
B0046164		2.29	<0.5	<5	28	442		0.010		2.79
B0046165		0.97	8.3	<5	221	>10000	5.24	0.282		
B0046166		1.76	<0.5	<5	22	535		0.008		
B0046167		2.39	<0.5	<5	60	389		0.009		
B0046168		1.73	1.2	<5	378	1595		0.030		
B0046169		1.33	2.4	<5	301	2110		0.080		
B0046170		1.81	1.6	<5	220	608		0.864		
B0046171		0.11	<0.5	<5	21	48		<0.005		



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CERTIFICATE TB20071618

Project: VanHorne

This report is for 77 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 27-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20071618

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046172		2.11	<0.5	<5	42	392		0.010		
B0046173		2.59	<0.5	<5	112	249		0.020		
B0046174		2.44	<0.5	<5	84	238		0.129		
B0046175		2.43	<0.5	<5	103	236		0.015		
B0046176		2.48	<0.5	<5	77	283		<0.005		
B0046177		1.77	0.5	<5	131	459		0.025		
B0046178		2.11	0.5	<5	90	291		0.009		
B0046179		2.10	<0.5	<5	110	235		0.009		
B0046180		1.43	<0.5	<5	93	217		0.014		
B0046181		2.32	<0.5	<5	66	190		0.006		
B0046182		1.99	<0.5	<5	44	206		0.010		
B0046183		2.67	<0.5	<5	48	169		0.007		
B0046184		2.34	<0.5	<5	45	128		0.008		2.71
B0046185		2.34	<0.5	<5	53	193		0.011		
B0046186		0.07	1.0	12	40	90		1.040		
B0046187		2.11	<0.5	<5	58	299		0.011		
B0046188		2.41	<0.5	<5	90	455		0.015		
B0046189		2.30	0.5	<5	137	669		0.222		
B0046190		2.32	<0.5	<5	116	234		0.011		
B0046191		2.44	<0.5	<5	119	163		0.012		
B0046192		0.49	<0.5	<5	14	26		<0.005		
B0046193		2.25	<0.5	<5	99	194		0.013		
B0046194		2.46	<0.5	<5	71	224		0.019		
B0046195		2.33	<0.5	<5	55	375		0.025		2.83
B0046196		2.58	<0.5	<5	48	563		0.034		
B0046197		2.58	50.5	398	700	>10000	2.76	1.295		
B0046198		2.40	1.9	<5	172	1210		0.744		
B0046199		0.07	0.6	6170	55	72		6.07	6.34	
B0046200		2.29	<0.5	<5	57	501		0.029		
B0046201		2.21	1.1	9	178	667		0.061		
B0046202		2.25	<0.5	<5	41	404		0.005		
B0046203		2.49	0.6	<5	59	551		0.068		
B0046204		1.60	<0.5	<5	26	660		0.211		
B0046205		1.33	0.5	<5	109	466		0.455		
B0046206		1.99	<0.5	<5	9	270		0.008		
B0046207		2.47	<0.5	<5	6	160		<0.005		2.80
B0046208		1.20	<0.5	<5	18	173		0.008		
B0046209		1.34	<0.5	<5	21	150		0.112		
B0046210		1.03	<0.5	<5	23	167		0.009		
B0046211		2.20	<0.5	<5	9	191		0.029		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20071618

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046212		0.11	<0.5	<5	18	39		0.021		
B0046213		2.34	<0.5	<5	7	27		0.078		
B0046214		1.79	<0.5	<5	9	28		0.095		
B0046215		2.13	<0.5	<5	8	32		0.608		2.64
B0046216		2.45	<0.5	<5	10	31		0.416		
B0046217		2.88	<0.5	<5	3	25		0.365		
B0046218		2.43	<0.5	<5	5	26		0.276		
B0046219		2.41	<0.5	<5	10	33		0.337		
B0046220		1.38	0.5	<5	77	226		1.725		
B0046221		0.99	2.0	<5	30	225		6.59	5.96	
B0046222		2.47	0.6	<5	205	221		0.055		
B0046223		1.30	<0.5	<5	89	297		0.983		
B0046224		1.13	<0.5	<5	96	176		0.027		
B0046225		0.07	1.5	16	42	95		1.045		
B0046226		2.42	<0.5	<5	35	190		0.037		
B0046227		2.36	<0.5	<5	25	189		0.005		
B0046228		2.33	<0.5	<5	27	212		0.006		
B0046229		2.38	<0.5	<5	12	208		<0.005		2.90
B0046230		2.18	<0.5	<5	21	142		0.052		
B0046231		1.23	<0.5	<5	11	82		0.176		
B0046232		1.77	<0.5	<5	4	64		0.113		
B0046233		1.34	<0.5	<5	5	68		0.273		
B0046234		2.13	<0.5	<5	1	72		<0.005		
B0046235		1.07	<0.5	<5	5	710		0.343		
B0046236		1.27	<0.5	<5	3	85		<0.005		
B0046237		0.80	<0.5	9	31	60		2.39		
B0046238		0.11	<0.5	<5	19	59		<0.005		
B0046239		1.31	<0.5	<5	7	90		0.035		
B0046240		2.27	<0.5	<5	32	125		1.315		
B0046241		2.34	<0.5	<5	46	219		0.008		
B0046242		1.92	<0.5	<5	13	218		<0.005		
B0046243		2.64	<0.5	<5	10	188		0.253		
B0046244		1.41	<0.5	<5	6	210		0.076		
B0046245		1.08	0.9	<5	42	229		1.180		
B0046246		1.49	<0.5	<5	21	36		0.263		
B0046247		2.18	<0.5	<5	10	38		0.283		
B0046248		1.90	<0.5	<5	14	35		0.290		



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CERTIFICATE TB20073299

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 30-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073299

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046249		0.49	<0.5	<5	9	24		<0.005		
B0046250		1.96	<0.5	<5	10	36		0.612		2.62
B0046251		1.88	<0.5	<5	15	38		0.007		
B0046252		2.05	<0.5	<5	13	46		0.099		
B0046253		0.11	<0.5	<5	19	40		<0.005		
B0046254		1.99	<0.5	<5	15	40		0.020		
B0046255		0.91	<0.5	<5	13	32		0.039		
B0046256		2.13	<0.5	<5	128	194		0.038		
B0046257		1.77	<0.5	<5	10	156		<0.005		
B0046258		1.82	<0.5	<5	7	153		<0.005		
B0046259		2.23	<0.5	<5	4	157		<0.005		2.80
B0046260		2.30	<0.5	<5	5	109		<0.005		
B0046261		2.28	<0.5	<5	25	95		<0.005		
B0046262		1.73	<0.5	<5	10	40		<0.005		
B0046263		1.76	<0.5	<5	8	34		<0.005		
B0046264		0.07	1.6	6250	49	69		6.71	6.98	
B0046265		2.50	<0.5	7	24	100		<0.005		
B0046266		2.08	<0.5	<5	19	40		<0.005		2.69
B0046267		2.70	<0.5	<5	43	190		0.005		
B0046268		2.12	<0.5	<5	50	165		0.015		
B0046269		2.23	<0.5	<5	31	181		0.483		
B0046270		2.27	<0.5	<5	19	178		0.184		
B0046271		2.31	<0.5	<5	9	186		0.015		
B0046272		1.71	<0.5	<5	7	322		0.063		
B0046273		1.24	<0.5	<5	10	399		0.036		
B0046274		1.59	<0.5	<5	11	347		0.014		
B0046275		1.90	<0.5	<5	12	139		0.009		
B0046276		2.21	<0.5	<5	11	132		0.014		
B0046277		0.11	<0.5	<5	17	35		<0.005		
B0046278		1.98	<0.5	<5	9	139		0.031		
B0046279		2.33	<0.5	<5	18	134		0.009		
B0046280		2.20	<0.5	<5	23	130		0.006		
B0046281		2.71	<0.5	<5	36	153		0.024		
B0046282		2.35	<0.5	<5	62	157		0.014		2.89
B0046283		1.24	<0.5	<5	75	104		<0.005		2.80
B0046284		1.42	<0.5	<5	43	99		<0.005		
B0046285		1.32	<0.5	<5	58	107		<0.005		
B0046286		1.16	<0.5	5	74	198		<0.005		
B0046287		1.15	<0.5	<5	27	275		<0.005		
B0046288		1.49	<0.5	10	77	>10000	1.140	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073299

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046289		1.76	<0.5	<5	32	277		<0.005		
B0046290		0.07	1.3	13	40	86		1.090		
B0046291		1.28	<0.5	<5	52	215		<0.005		
B0046292		1.39	<0.5	5	39	161		<0.005		
B0046293		0.80	<0.5	<5	29	240		<0.005		2.83
B0046294		2.45	<0.5	5	16	184		<0.005		
B0046295		2.26	<0.5	<5	59	144		<0.005		
B0046296		2.25	<0.5	<5	93	167		<0.005		
B0046297		2.14	<0.5	<5	87	123		<0.005		
B0046298		1.10	<0.5	<5	37	73		<0.005		
B0046299		1.04	<0.5	<5	37	76		<0.005		
B0046300		1.41	<0.5	<5	65	80		<0.005		
B0046301		1.10	<0.5	<5	8	41		<0.005		
B0046302		1.14	<0.5	<5	14	36		<0.005		
B0046303		0.11	<0.5	<5	18	37		<0.005		
B0046304		1.21	<0.5	<5	11	34		<0.005		2.65
B0046305		2.34	<0.5	<5	8	39		0.006		
B0046306		2.15	<0.5	<5	10	35		0.015		
B0046307		2.32	<0.5	<5	19	36		<0.005		
B0046308		2.21	<0.5	<5	12	40		<0.005		
B0046309		2.23	<0.5	<5	14	33		<0.005		
B0046310		1.91	<0.5	<5	18	24		<0.005		
B0046311		2.84	<0.5	<5	25	85		<0.005		
B0046312		1.86	<0.5	<5	241	74		0.016		2.82
B0046313		2.67	<0.5	<5	11	29		0.596		
B0046314		2.37	<0.5	<5	9	32		0.088		
B0046315		0.89	<0.5	<5	13	19		0.292		
B0046316		0.07	0.6	6130	51	69		6.56	NSS	NSS
B0046317		1.41	<0.5	6	40	83		0.097		
B0046318		2.60	<0.5	<5	48	81		<0.005		
B0046319		2.67	<0.5	<5	30	74		<0.005		
B0046320		1.44	<0.5	<5	26	75		<0.005		
B0046321		1.32	<0.5	5	12	48		0.161		
B0046322		1.05	<0.5	5	8	36		1.345		
B0046323		1.38	<0.5	<5	68	92		0.147		
B0046324		1.22	0.7	5	46	46		2.11		
B0046325		1.81	<0.5	<5	40	97		1.045		
B0046326		1.45	<0.5	5	49	65		1.045		



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CERTIFICATE TB20073996

Project: VanHorne

This report is for 79 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073996

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046327		0.11	<0.5	<5	18	37	<0.005		
B0046328		2.42	<0.5	<5	16	38	1.190		
B0046329		1.28	<0.5	<5	35	103	0.012		
B0046330		2.05	<0.5	<5	32	79	<0.005		
B0046331		1.74	<0.5	<5	14	79	0.009		2.69
B0046332		1.12	<0.5	<5	23	73	1.630		
B0046333		1.38	<0.5	<5	69	83	0.147		
B0046334		1.55	<0.5	<5	26	97	0.767		
B0046335		1.13	<0.5	<5	131	102	1.050		
B0046336		1.19	<0.5	<5	6	111	0.005		
B0046337		2.51	<0.5	<5	19	75	0.039		
B0046338		1.86	<0.5	<5	31	70	0.643		
B0046339		1.06	<0.5	<5	32	68	0.005		
B0046340		2.16	<0.5	<5	16	88	0.005		
B0046358		2.47	<0.5	<5	61	103	0.007		
B0046359		1.04	<0.5	<5	25	100	0.114		
B0046360		0.11	<0.5	<5	18	38	<0.005		
B0046361		1.20	<0.5	<5	20	124	<0.005		
B0046362		1.07	<0.5	<5	18	108	0.109		
B0046363		0.99	<0.5	<5	18	116	0.007		
B0046364		1.14	<0.5	<5	18	104	0.016		
B0046365		0.07	98.8	227	4580	3860	>10.0	26.3	
B0046366		1.21	<0.5	<5	20	123	0.041		
B0046367		1.08	<0.5	<5	15	116	0.005		
B0046368		0.07	1.0	6060	54	71	6.89	NSS	
B0046369		0.91	<0.5	20	28	94	1.955		
B0046370		1.28	<0.5	10	46	87	2.10		
B0046371		0.46	<0.5	<5	11	23	0.006		
B0046372		1.05	<0.5	<5	65	77	1.450		
B0046373		2.08	<0.5	<5	90	94	0.511		
B0046374		1.16	<0.5	<5	108	86	0.380		
B0046375		0.91	<0.5	<5	62	78	0.399		
B0046376		1.19	<0.5	<5	47	92	0.231		
B0046377		1.70	<0.5	<5	52	91	0.007		
B0046378		1.86	<0.5	<5	36	88	<0.005		
B0046379		2.30	<0.5	<5	38	79	<0.005		
B0046389		2.23	<0.5	<5	1	61	<0.005		
B0046390		1.19	<0.5	<5	4	44	<0.005		
B0046391		1.00	<0.5	<5	2	49	<0.005		
B0046392		1.30	<0.5	<5	2	52	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073996

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046393		1.22	<0.5	<5	5	67	<0.005		
B0046394		0.07	1.0	14	46	91	1.040		
B0046395		1.08	<0.5	10	10	101	<0.005		
B0046396		1.51	<0.5	<5	6	65	<0.005		
B0046397		1.06	<0.5	16	52	149	<0.005		
B0046398		1.39	<0.5	<5	104	80	0.047		
B0046399		1.21	<0.5	6	14	186	<0.005		
B0046400		1.02	<0.5	<5	2	64	<0.005		
B0046401		1.36	<0.5	<5	2	47	<0.005		
B0046402		1.32	<0.5	<5	8	29	<0.005		
B0046403		1.32	<0.5	5	3	46	<0.005		
B0046404		2.43	<0.5	<5	1	56	<0.005		
B0046405		0.11	<0.5	<5	19	38	<0.005		
B0046406		2.59	<0.5	<5	3	51	<0.005		
B0046407		2.23	<0.5	<5	6	64	<0.005		
B0046408		1.36	<0.5	<5	3	59	<0.005		
B0046409		1.48	<0.5	<5	5	89	<0.005		
B0046410		2.25	<0.5	<5	4	117	0.049		
B0046411		1.03	<0.5	<5	5	109	0.006		
B0046412		1.10	<0.5	<5	5	108	<0.005		
B0046413		2.24	<0.5	<5	4	109	0.005		
B0046414		2.22	<0.5	<5	8	107	0.040		
B0046415		2.40	<0.5	<5	8	129	<0.005		
B0046416		2.33	<0.5	<5	5	129	0.009		
B0046417		2.17	<0.5	<5	8	130	<0.005		
B0046418		1.20	<0.5	<5	8	93	4.51	4.71	
B0046419		0.11	<0.5	<5	19	38	<0.005		
B0046420		1.15	<0.5	<5	6	111	0.039		
B0046421		1.07	<0.5	<5	4	113	0.019		
B0046422		1.13	0.8	<5	6	81	0.891		
B0046423		0.07	95.9	217	4310	3670	>10.0	26.1	
B0046424		1.40	0.6	14	65	60	2.24		
B0046425		1.11	<0.5	9	74	52	2.34		
B0046426		0.51	<0.5	<5	7	21	0.010		
B0046427		1.32	<0.5	6	46	34	0.298		
B0046428		1.19	<0.5	6	29	57	1.020		
B0046429		2.09	<0.5	<5	26	93	0.214		
B0046430		1.22	<0.5	<5	41	73	<0.005		2.61
B0046431		2.35	<0.5	<5	63	116	0.007		



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Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073996

CERTIFICATE COMMENTS													
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: NSS is non-sufficient sample. ALL METHODS</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table><tr><td>CRU-31</td><td>CRU-QC</td><td>LOG-21</td><td>LOG-23</td></tr><tr><td>PUL-31</td><td>PUL-QC</td><td>SPL-21</td><td>WEI-21</td></tr></table> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-AA24</td><td>Au-GRA22</td><td>ME-ICP61</td><td>OA-GRA08b</td></tr></table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b
CRU-31	CRU-QC	LOG-21	LOG-23										
PUL-31	PUL-QC	SPL-21	WEI-21										
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b										



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CERTIFICATE TB20073997

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073997

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0046432		1.11	<0.5	<5	29	106	0.012		
B0046433		0.07	<0.5	6130	49	68	NSS	NSS	
B0046434		1.01	<0.5	<5	26	109	<0.005		
B0046435		2.20	<0.5	<5	29	95	<0.005		
B0046436		2.14	<0.5	<5	33	104	<0.005		2.70
B0046437		2.34	<0.5	<5	32	101	<0.005		
B0046438		1.17	<0.5	<5	31	101	<0.005		
B0046439		1.60	<0.5	<5	43	116	0.032		
B0046440		0.95	<0.5	<5	15	121	<0.005		
B0046441		0.77	<0.5	<5	13	113	0.405		
B0046442		2.34	<0.5	<5	24	262	0.006		
B0046443		1.07	<0.5	5	35	760	0.030		
B0046444		1.23	<0.5	<5	32	382	<0.005		
B0046445		1.01	<0.5	12	210	1420	0.089		
B0046446		0.11	<0.5	6	19	40	<0.005		
B0046447		3.58	<0.5	12	72	484	0.015		
B0046448		1.40	7.6	137	340	5250	0.367		
B0046449		1.07	<0.5	<5	68	405	0.008		
B0046450		2.22	<0.5	<5	63	293	0.010		
B0046451		1.07	<0.5	5	56	299	0.006		
B0046452		1.20	1.9	5	281	1595	0.044		
B0046453		1.21	<0.5	6	37	852	0.015		
B0046454		0.91	0.7	6	81	1795	0.030		
B0046455		2.20	1.4	17	184	1645	0.038		2.86
B0046456		1.98	<0.5	7	86	192	0.005		
B0046457		0.97	<0.5	5	37	141	<0.005		
B0046458		1.15	<0.5	<5	69	104	<0.005		
B0046459		0.07	1.4	16	43	95	1.060		
B0046460		1.60	<0.5	<5	90	159	<0.005		
B0046461		1.24	<0.5	<5	36	136	<0.005		
B0046462		2.17	<0.5	<5	23	134	<0.005		
B0046463		2.35	<0.5	<5	67	152	<0.005		
B0046464		1.39	<0.5	<5	86	151	<0.005		2.82
B0046465		2.15	<0.5	<5	104	182	0.005		
B0046466		1.22	<0.5	<5	102	197	<0.005		
B0046467		1.38	<0.5	<5	60	169	1.480		
B0046468		1.99	<0.5	<5	75	216	0.006		
B0046469		1.19	<0.5	<5	33	104	<0.005		
B0046470		2.13	<0.5	<5	7	141	<0.005		2.76
B0046471		1.12	<0.5	<5	5	142	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073997

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046472		0.11	<0.5	<5	19	40	<0.005		
B0046473		1.19	<0.5	<5	10	153	>10.0	10.25	
B0046474		2.45	<0.5	<5	6	140	0.005		
B0046475		2.70	<0.5	<5	8	131	0.007		
B0046476		2.31	<0.5	<5	9	146	0.119		
B0046477		1.16	<0.5	<5	8	115	5.96	6.11	
B0046478		1.07	<0.5	<5	4	148	0.014		
B0046479		2.29	<0.5	<5	5	132	<0.005		
B0046480		1.22	<0.5	<5	1	93	<0.005		
B0046481		0.99	<0.5	<5	1	53	0.346		
B0046482		1.13	<0.5	<5	5	93	0.007		
B0046483		0.63	<0.5	<5	6	20	<0.005		
B0046484		1.15	<0.5	<5	5	78	0.024		
B0046485		1.07	<0.5	<5	10	72	<0.005		
B0046486		1.01	<0.5	<5	4	279	<0.005		
B0046487		0.11	<0.5	<5	19	60	<0.005		
B0046488		1.21	<0.5	<5	4	98	<0.005		
B0046489		2.12	<0.5	<5	6	81	<0.005		2.76
B0046490		2.12	<0.5	<5	6	86	0.005		
B0046491		2.13	<0.5	<5	2	85	<0.005		
B0046492		2.20	<0.5	<5	9	75	<0.005		
B0046493		1.21	<0.5	<5	3	60	0.095		
B0046494		0.92	<0.5	<5	32	113	0.041		
B0046495		2.19	<0.5	<5	7	83	<0.005		
B0046496		2.25	<0.5	<5	7	95	<0.005		
B0046497		2.33	<0.5	<5	2	89	0.005		
B0046498		0.07	0.6	6100	50	69	6.20	NSS	
B0046499		1.34	<0.5	5	13	78	1.150		
B0046500		1.04	<0.5	<5	21	77	0.010		
B0046501		1.99	<0.5	<5	16	87	<0.005		
B0046502		1.05	<0.5	<5	23	61	0.030		
B0046503		1.15	<0.5	<5	19	59	1.115		
B0046504		1.15	<0.5	<5	48	157	0.117		
B0046505		2.23	1.4	<5	34	91	3.16	2.96	
B0046506		1.19	<0.5	<5	30	125	0.126		
B0046507		1.31	<0.5	<5	56	179	0.009		
B0046508		1.09	<0.5	<5	15	195	0.067		
B0046509		1.31	<0.5	<5	46	137	0.579		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073997

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-AA24</td> <td>Au-GRA22</td> <td>ME-ICP61</td> <td>OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20073998

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073998

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046510		1.09	<0.5	<5	17	146	0.008		
B0046511		0.11	<0.5	<5	19	40	0.005		
B0046512		1.21	<0.5	<5	16	146	<0.005		
B0046513		1.80	<0.5	<5	9	85	0.007		
B0046514		2.49	<0.5	<5	6	94	<0.005		
B0046515		2.15	<0.5	<5	5	89	0.006		
B0046516		1.21	<0.5	<5	4	95	<0.005		
B0046517		1.13	<0.5	<5	3	70	0.005		
B0046518		2.39	<0.5	<5	7	96	0.007		
B0046519		2.07	<0.5	<5	5	91	<0.005		
B0046520		2.40	<0.5	<5	4	87	0.005		
B0046521		1.13	<0.5	<5	8	77	0.009		
B0046522		1.08	<0.5	<5	10	89	0.028		
B0046523		2.37	<0.5	<5	7	89	0.058		
B0046524		0.07	1.1	18	45	92	1.125		
B0046525		2.26	<0.5	<5	10	92	0.009		
B0046526		1.02	<0.5	<5	2	73	<0.005		
B0046527		1.21	<0.5	<5	35	118	0.006		
B0046528		1.80	<0.5	<5	14	78	0.076		
B0046529		0.64	<0.5	<5	13	450	<0.005		
B0046530		1.37	<0.5	<5	17	113	0.009		
B0046531		1.09	<0.5	<5	7	79	<0.005		
B0046532		1.93	<0.5	<5	12	69	<0.005		
B0046533		2.12	<0.5	<5	3	74	<0.005		
B0046534		2.09	<0.5	<5	63	182	0.006		
B0046535		2.52	<0.5	<5	91	185	0.009		
B0046536		2.26	<0.5	<5	11	94	0.009		
B0046537		0.11	<0.5	<5	19	39	0.013		
B0046538		1.05	<0.5	<5	10	89	0.053		
B0046539		1.25	<0.5	<5	10	83	0.056		
B0046540		1.52	<0.5	<5	5	72	0.023		
B0046541		1.70	<0.5	<5	8	80	0.104		
B0046542		1.14	0.6	<5	10	73	>10.0	18.15	
B0046543		0.11	<0.5	<5	19	38	<0.005		
B0046544		2.04	<0.5	<5	9	96	0.622		
B0046545		1.39	<0.5	<5	49	109	0.364		
B0046546		1.23	<0.5	<5	25	108	0.010		
B0046547		2.02	<0.5	<5	15	118	0.005		
B0046548		0.07	97.9	227	4760	3870	>10.0	25.9	
B0046549		2.31	<0.5	<5	8	88	1.185		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073998

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
	LOD	0.02	0.5	5	1	2	0.005	0.05	0.01
B0046550		0.07	1.1	6050	53	69	6.75	6.83	
B0046551		1.02	<0.5	10	8	98	0.146		
B0046552		1.17	<0.5	<5	11	103	0.265		
B0046553		1.02	<0.5	<5	3	104	0.026		
B0046554		1.11	<0.5	<5	11	108	0.007		
B0046555		1.30	<0.5	<5	4	103	0.029		
B0046556		1.39	<0.5	<5	12	121	0.024		
B0046557		1.10	<0.5	<5	8	99	<0.005		
B0046558		1.06	<0.5	<5	3	100	<0.005		
B0046559		1.04	<0.5	<5	5	113	<0.005		
B0046560		1.29	<0.5	<5	5	90	<0.005		
B0046561		0.11	<0.5	<5	19	38	<0.005		
B0046562		2.14	<0.5	<5	37	112	0.006		
B0046563		1.03	<0.5	<5	18	89	<0.005		
B0046564		1.04	<0.5	<5	4	101	<0.005		
B0046565		2.27	<0.5	<5	13	90	<0.005		
B0046566		2.19	<0.5	<5	1	96	<0.005		
B0046567		2.39	<0.5	<5	24	96	<0.005	2.84	
B0046568		1.33	<0.5	<5	4	95	<0.005		
B0046569		1.01	<0.5	<5	5	94	<0.005		
B0046570		1.40	<0.5	<5	4	108	<0.005		
B0046571		1.40	<0.5	<5	6	76	0.175		
B0046572		1.06	<0.5	<5	7	99	<0.005		
B0046573		2.72	<0.5	<5	25	75	<0.005	2.69	
B0046574		1.00	<0.5	<5	10	77	<0.005		
B0046575		1.22	<0.5	<5	18	77	<0.005		
B0046576		0.07	1.3	14	47	90	1.070		
B0046577		1.19	<0.5	<5	82	90	0.101		
B0046578		1.00	<0.5	<5	13	50	0.015		
B0046579		1.11	<0.5	<5	14	79	<0.005		
B0046580		1.13	<0.5	<5	4	60	<0.005		
B0046581		1.06	<0.5	<5	10	85	<0.005		
B0046582		1.26	<0.5	<5	4	77	<0.005		
B0046583		1.07	<0.5	<5	14	72	<0.005		
B0046584		1.29	<0.5	<5	35	75	0.019		
B0046585		1.54	<0.5	<5	63	104	0.006		
B0046586		1.31	<0.5	<5	132	84	0.012		
B0046587		1.29	<0.5	<5	30	46	0.187		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073998

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20073999

Project: VanHorne

This report is for 57 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 31-MAR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20073999

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046588		1.17	<0.5	<5	28	99		0.005		2.69
B0046589		0.11	<0.5	<5	20	39		<0.005		
B0046590		1.72	<0.5	<5	16	91		0.017		
B0046591		2.44	<0.5	<5	25	97		0.007		
B0046592		2.28	0.5	<5	24	100		0.006		
B0046593		1.21	0.5	<5	6	93		<0.005		2.79
B0046594		1.14	<0.5	<5	16	90		<0.005		
B0046595		2.23	<0.5	<5	6	93		<0.005		
B0046596		2.22	<0.5	<5	2	90		<0.005		
B0046597		1.23	<0.5	<5	19	110		<0.005		
B0046598		1.28	<0.5	<5	7	105		0.011		
B0046599		1.11	1.3	<5	596	83		0.407		
B0046600		1.22	<0.5	5	61	128		0.012		
B0046601		2.17	0.5	<5	47	107		<0.005		
B0046602		0.07	0.7	5900	49	68		5.90	NSS	
B0046603		1.24	0.6	9	54	121		<0.005		
B0046604		1.30	<0.5	6	55	124		<0.005		
B0046605		0.67	<0.5	<5	6	23		<0.005		
B0046606		1.27	0.5	<5	23	100		<0.005		2.78
B0046607		1.55	<0.5	<5	21	101		<0.005		
B0046608		1.98	<0.5	<5	1	70		<0.005		
B0046609		1.13	<0.5	<5	7	68		<0.005		
B0046610		1.15	<0.5	<5	9	67		<0.005		
B0046611		1.15	<0.5	<5	4	73		<0.005		
B0046612		1.26	<0.5	<5	<1	73		<0.005		
B0046613		2.19	0.5	<5	11	77		<0.005		
B0046614		2.23	0.5	<5	23	121		<0.005		
B0046615		0.11	<0.5	<5	18	38		<0.005		
B0046616		2.09	<0.5	<5	8	131		<0.005		
B0046617		1.30	<0.5	<5	39	125		<0.005		
B0046618		1.16	<0.5	<5	92	165		<0.005		
B0046619		1.17	<0.5	<5	87	136		<0.005		
B0046620		1.31	<0.5	<5	42	138		<0.005		
B0046621		1.16	<0.5	<5	17	114		0.010		
B0046622		1.16	<0.5	<5	5	108		<0.005		
B0046623		1.25	<0.5	<5	8	103		<0.005		
B0046624		1.21	<0.5	<5	10	111		<0.005		
B0046625		2.47	<0.5	<5	10	141		<0.005		
B0046626		2.16	<0.5	<5	15	134		<0.005		
B0046627		2.47	<0.5	<5	15	135		<0.005		



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CERTIFICATE OF ANALYSIS TB20073999

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046628		0.07	1.7	18	44	99		1.085		
B0046629		1.18	<0.5	<5	7	145		<0.005		
B0046630		1.65	0.8	<5	180	110		0.006		
B0046631		1.25	<0.5	15	78	137		0.016		
B0046632		1.10	0.6	11	49	110		0.022		
B0046633		1.26	<0.5	10	73	172		0.023		
B0046634		1.13	<0.5	6	19	105		0.850		
B0046635		1.17	<0.5	<5	10	86		0.523		
B0046636		1.59	<0.5	<5	4	135		0.027		
B0046637		1.54	1.9	34	210	>10000	1.150	0.180		
B0046638		2.44	0.7	<5	48	277		0.035		
B0046639		0.11	<0.5	<5	20	44		<0.005		
B0046640		2.37	0.7	<5	31	167		<0.005		
B0046641		2.46	<0.5	<5	50	369		0.006		
B0046642		2.39	27.1	<5	2330	>10000	4.09	0.211		
B0046643		2.38	0.6	<5	99	1790		0.006		
B0046644		2.20	1.6	<5	104	2610		0.009		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20073999

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 17%;">ME-OG62</td> </tr> <tr> <td>OA-GRA08b</td> <td>Zn-OG62</td> <td></td> <td></td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	ME-OG62	OA-GRA08b	Zn-OG62		
Au-AA24	Au-GRA22	ME-ICP61	ME-OG62						
OA-GRA08b	Zn-OG62								



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CERTIFICATE TB20077934

Project: VanHorne

This report is for 26 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 6-APR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20077934

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.01
B0046341		2.41	<0.5	<5	12	92	<0.005	
B0046342		0.07	1.6	19	51	87	1.085	
B0046343		1.21	<0.5	<5	11	86	<0.005	
B0046344		1.25	<0.5	<5	10	88	0.023	
B0046345		2.35	<0.5	<5	9	101	<0.005	
B0046346		1.28	<0.5	<5	10	86	0.006	
B0046347		2.51	<0.5	<5	16	91	0.012	
B0046348		2.24	<0.5	<5	18	93	<0.005	
B0046349		2.28	<0.5	<5	39	93	<0.005	
B0046350		2.12	<0.5	<5	36	95	<0.005	
B0046351		2.25	<0.5	<5	59	92	0.015	
B0046352		1.16	<0.5	<5	55	82	1.325	
B0046353		1.13	0.5	<5	259	99	0.020	
B0046354		2.40	<0.5	<5	55	94	<0.005	
B0046355		0.11	<0.5	<5	18	39	<0.005	
B0046356		2.40	<0.5	<5	49	96	<0.005	2.74
B0046357		2.34	<0.5	<5	43	100	<0.005	
B0046380		2.54	<0.5	<5	68	94	<0.005	
B0046381		0.11	<0.5	<5	18	38	<0.005	
B0046382		2.46	<0.5	<5	34	99	<0.005	
B0046383		1.24	<0.5	<5	31	101	<0.005	
B0046384		1.18	<0.5	<5	51	107	<0.005	
B0046385		2.54	<0.5	<5	51	112	<0.005	
B0046386		2.14	<0.5	<5	42	135	<0.005	
B0046387		1.17	<0.5	<5	40	132	<0.005	
B0046388		1.55	<0.5	<5	23	130	<0.005	



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CERTIFICATE TB20077935

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 6-APR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20077935

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046645		0.11	<0.5	<5	19	38	<0.005		
B0046646		2.39	<0.5	<5	8	118	<0.005		
B0046647		1.38	<0.5	<5	7	83	<0.005		
B0046648		1.24	<0.5	<5	5	106	<0.005		
B0046649		1.22	<0.5	<5	2	126	<0.005		2.72
B0046650		1.91	4.4	<5	15	115	>10.0	37.4	
B0046651		1.59	<0.5	<5	148	89	0.041		
B0046652		1.22	<0.5	<5	50	67	0.008		
B0046653		1.01	<0.5	<5	57	42	0.843		
B0046654		1.36	<0.5	<5	65	55	0.013		
B0046655		1.15	<0.5	<5	58	67	<0.005		
B0046656		1.20	<0.5	<5	30	71	<0.005		
B0046657		1.37	<0.5	<5	39	82	0.135		
B0046658		1.37	<0.5	7	30	74	0.445		
B0046659		1.93	0.9	<5	156	80	0.021		
B0046660		0.11	1.8	17	40	88	1.115		
B0046661		1.07	<0.5	<5	24	96	<0.005		
B0046662		2.18	0.9	<5	106	135	0.020		
B0046663		1.14	1.2	<5	113	105	0.512		2.76
B0046664		1.17	0.6	<5	96	123	0.010		
B0046665		1.19	<0.5	<5	24	78	0.008		
B0046666		0.53	<0.5	<5	9	27	0.005		
B0046667		1.15	2.6	8	308	97	0.031		
B0046668		1.17	0.5	<5	84	96	0.011		
B0046669		1.15	1.2	6	10	78	3.23	3.25	
B0046670		2.27	<0.5	<5	23	98	0.074		
B0046671		2.45	1.3	<5	213	74	0.020		
B0046672		1.19	<0.5	<5	75	94	0.785		
B0046673		0.07	1.1	6160	49	67	5.62	NSS	
B0046674		2.17	0.6	8	13	219	0.901		
B0046675		1.50	0.5	<5	9	152	3.42	2.91	
B0046676		2.47	0.7	21	79	821	0.090		
B0046677		1.46	1.9	92	246	389	0.273		
B0046678		2.16	<0.5	<5	17	165	0.009		
B0046679		1.27	<0.5	<5	19	84	<0.005		
B0046680		2.28	<0.5	<5	14	134	<0.005		
B0046681		1.22	<0.5	<5	2	71	<0.005		
B0046682		1.20	<0.5	<5	2	108	<0.005		
B0046683		2.44	<0.5	<5	2	94	<0.005		
B0046684		2.37	<0.5	<5	2	102	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20077935

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0046685		2.42	<0.5	<5	5	124	<0.005		
B0046686		0.11	<0.5	<5	21	39	<0.005		
B0046687		1.31	<0.5	<5	12	124	<0.005	2.67	
B0046688		1.01	<0.5	<5	7	78	<0.005		
B0046689		2.27	<0.5	<5	1	91	<0.005		
B0046690		0.97	<0.5	<5	1	105	<0.005		
B0046691		1.52	<0.5	<5	<1	100	<0.005		
B0046692		0.89	<0.5	<5	2	112	<0.005		
B0046693		1.49	<0.5	<5	1	115	<0.005		
B0046694		1.16	<0.5	<5	1	113	<0.005		
B0046695		1.05	<0.5	<5	3	107	<0.005		
B0046696		1.82	<0.5	<5	2	116	<0.005		
B0046697		1.89	<0.5	<5	2	111	0.010		
B0046698		2.56	<0.5	<5	1	103	<0.005		
B0046699		0.07	1.3	16	42	88	0.997		
B0046700		1.30	<0.5	<5	3	116	0.110		
B0046701		1.29	<0.5	<5	3	107	<0.005		
B0046702		1.16	<0.5	<5	1	111	<0.005		
B0046703		1.08	<0.5	<5	2	117	<0.005		
B0046704		1.47	<0.5	<5	3	121	<0.005		
B0046705		1.13	<0.5	<5	1	147	<0.005		
B0046706		1.17	<0.5	<5	3	122	0.007		
B0046707		1.11	<0.5	<5	3	112	<0.005		
B0046708		1.39	<0.5	<5	2	124	<0.005		
B0046709		1.12	<0.5	<5	1	124	<0.005		
B0046710		2.59	<0.5	<5	3	93	<0.005		
B0046711		2.00	<0.5	<5	3	144	<0.005		
B0046712		0.11	<0.5	<5	19	43	<0.005		
B0046713		2.40	<0.5	<5	4	141	0.005	2.74	
B0046714		2.38	<0.5	5	2	116	<0.005		
B0046715		2.40	<0.5	5	5	114	<0.005		
B0046716		1.33	0.5	<5	24	171	<0.005		
B0046717		1.10	<0.5	<5	21	75	<0.005		
B0046718		1.31	<0.5	<5	55	58	0.005		
B0046719		1.15	<0.5	<5	55	92	<0.005		
B0046720		1.19	<0.5	<5	70	110	<0.005		
B0046721		1.23	<0.5	<5	43	111	<0.005	2.80	
B0046722		2.45	<0.5	<5	62	125	<0.005		



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20077935

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 33%;">OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20081757

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-APR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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 *****

Comments: Additional check assay on sample B0046733 reports 3.34ppm and 14.5ppm for Au-GRA22 and 8.65ppm for Au-AA24.

Signature: 
 Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20081757

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0046723		0.59	<0.5	<5	8	22	<0.005		
B0046724		2.38	<0.5	<5	38	85	<0.005		
B0046725		2.49	<0.5	<5	51	98	<0.005		
B0046726		1.93	<0.5	<5	25	97	<0.005		
B0046727		0.11	<0.5	<5	17	38	<0.005		
B0046728		1.20	<0.5	<5	105	61	<0.005		
B0046729		1.69	<0.5	<5	89	82	<0.005		
B0046730		2.56	<0.5	<5	20	96	<0.005		
B0046731		2.06	<0.5	<5	101	86	<0.005		
B0046732		2.48	<0.5	<5	11	110	0.013		2.62
B0046733		1.37	1.0	<5	29	104	>10.0	4.45	
B0046734		1.06	<0.5	<5	47	94	0.013		
B0046735		2.57	<0.5	<5	42	108	0.013		
B0046736		1.05	0.5	5	47	94	0.052		
B0046737		2.29	0.5	12	21	94	0.034		
B0046738		0.07	1.1	6060	51	71	6.40	7.23	
B0046739		2.83	<0.5	13	8	107	0.017		
B0046740		2.49	<0.5	6	3	70	0.009		
B0046741		1.25	<0.5	8	3	79	0.704		
B0046742		2.39	<0.5	5	3	72	0.016		
B0046743		2.37	<0.5	10	5	83	0.025		
B0046744		1.16	0.5	<5	2	75	0.178		
B0046745		1.30	<0.5	<5	5	80	0.029		
B0046746		2.43	<0.5	<5	3	83	0.015		
B0046747		2.33	<0.5	<5	5	76	<0.005		
B0046748		2.43	<0.5	6	9	76	0.609		
B0046749		2.06	<0.5	<5	21	90	0.009		
B0046750		0.82	<0.5	<5	20	122	0.005		
B0046751		0.11	<0.5	<5	19	40	0.008		
B0046752		1.10	<0.5	<5	23	90	0.442		
B0046753		1.00	<0.5	<5	18	112	<0.005		
B0046754		1.29	<0.5	<5	25	105	0.007		
B0046755		1.08	<0.5	6	15	72	0.273		
B0046756		0.99	<0.5	6	16	105	0.012		
B0046757		0.96	<0.5	<5	9	58	0.008		
B0046758		1.03	<0.5	<5	17	85	0.025		
B0046759		1.02	<0.5	6	11	65	0.073		
B0046760		1.13	<0.5	5	22	76	0.011		
B0046761		1.70	<0.5	5	21	94	0.007		
B0046762		1.22	<0.5	<5	20	90	0.007		

Comments: Additional check assay on sample B0046733 reports 3.34ppm and 14.5ppm for Au-GRA22 and 8.65ppm for Au-AA24.

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



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CERTIFICATE OF ANALYSIS TB20081757

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046763		2.12	<0.5	5	22	167	0.549		
B0046764		0.11	2.5	15	42	88	1.145		
B0046765		0.89	<0.5	<5	17	148	0.154		
B0046766		1.24	<0.5	6	15	177	0.018		
B0046767		1.12	<0.5	5	22	249	0.007		
B0046768		1.07	<0.5	5	21	262	0.137		
B0046769		1.13	<0.5	<5	23	253	0.008		
B0046770		1.08	<0.5	5	24	269	1.100		
B0046771		1.17	<0.5	<5	17	279	0.011		
B0046772		1.06	<0.5	6	29	317	0.063		
B0046773		1.14	<0.5	<5	16	203	0.121		
B0046774		1.06	<0.5	<5	17	273	0.005		
B0046775		1.08	<0.5	<5	33	76	<0.005		
B0046776		1.13	<0.5	5	21	85	<0.005		
B0046777		0.11	<0.5	<5	18	34	0.018		
B0046778		1.36	<0.5	<5	28	74	<0.005		
B0046779		1.05	<0.5	<5	19	74	0.006		
B0046780		0.96	<0.5	<5	30	85	0.011		
B0046781		1.00	<0.5	11	30	64	<0.005		
B0046782		1.30	<0.5	11	29	92	<0.005		
B0046783		2.19	<0.5	<5	45	94	0.008		
B0046784		0.92	<0.5	7	30	146	0.700		
B0046785		1.22	<0.5	<5	31	218	0.008		2.64
B0046786		1.05	<0.5	<5	22	128	<0.005		
B0046787		1.22	<0.5	<5	37	141	0.153		
B0046788		2.15	<0.5	<5	19	119	0.007		
B0046789		2.25	<0.5	5	25	163	0.032		
B0046790		0.07	0.6	6090	47	64	7.18	5.88	
B0046791		1.07	<0.5	9	33	134	0.010		
B0046792		1.07	<0.5	6	14	107	0.031		
B0046793		1.10	<0.5	5	34	117	1.285		
B0046794		1.18	<0.5	<5	26	135	<0.005		
B0046795		1.00	<0.5	<5	20	111	<0.005		
B0046796		1.20	<0.5	<5	24	99	<0.005		
B0046797		1.09	<0.5	6	14	91	<0.005		
B0046798		1.10	<0.5	<5	22	114	<0.005		2.70
B0046799		1.04	<0.5	7	15	147	0.417		
B0046800		1.02	<0.5	<5	25	131	0.020		

Comments: Additional check assay on sample B0046733 reports 3.34ppm and 14.5ppm for Au-GRA22 and 8.65ppm for Au-AA24.

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



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20081757

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20081758

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-APR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20081758

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046801		0.11	<0.5	5	18	34		<0.005		
B0046802		1.39	<0.5	<5	22	303		0.129		
B0046803		1.19	<0.5	<5	17	307		0.134		
B0046804		1.90	<0.5	<5	10	156		0.005		
B0046805		2.19	<0.5	8	15	273		0.178		
B0046806		1.05	0.9	7	8	117		3.47	3.56	
B0046807		1.14	<0.5	5	7	286		0.017		
B0046808		2.27	<0.5	15	12	208		0.026		
B0046809		1.16	2.7	20	17	282		2.40		
B0046810		1.09	0.6	91	21	8370		0.523		
B0046811		2.12	0.8	132	14	337		0.218		
B0046812		2.11	1.4	149	37	1565		0.273		
B0046813		1.36	<0.5	7	22	431		0.011		
B0046814		1.26	<0.5	<5	23	294		<0.005		
B0046815		2.01	<0.5	12	23	246		0.014		
B0046816		0.11	1.2	16	40	90		1.130		
B0046817		2.29	2.3	8	107	>10000	1.355	0.796		
B0046818		1.19	2.0	15	118	8710		0.068		
B0046819		1.01	<0.5	18	26	649		0.039		
B0046820		2.90	13.8	119	1000	>10000	2.22	0.804		
B0046821		1.10	0.6	11	111	245		0.033		
B0046822		0.85	<0.5	7	36	261		0.217		
B0046823		1.13	4.5	122	637	500		0.346		
B0046824		1.05	<0.5	9	66	317		0.012		
B0046825		1.86	0.7	9	123	239		0.019		
B0046826		1.11	<0.5	<5	29	280		0.005		
B0046827		1.38	0.9	44	104	5050		0.184		
B0046828		1.14	0.8	9	165	1700		0.059		
B0046829		0.11	<0.5	<5	18	45		<0.005		
B0046830		2.05	0.8	22	159	1705		0.119		
B0046831		2.06	<0.5	5	18	230		0.401		
B0046832		1.14	<0.5	5	5	124		0.005		
B0046833		1.06	<0.5	<5	34	95		0.007		
B0046834		1.11	<0.5	<5	28	90		0.007		
B0046835		1.09	<0.5	<5	33	90		0.005		2.57
B0046836		1.09	<0.5	<5	34	97		0.014		
B0046837		1.04	<0.5	<5	45	102		0.016		
B0046838		1.44	<0.5	<5	34	92		0.006		
B0046839		1.53	<0.5	<5	11	90		0.005		
B0046840		1.08	<0.5	<5	6	122		0.015		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20081758

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0046841		1.13	<0.5	<5	22	109		<0.005		
B0046842		0.07	0.7	5340	49	70		6.43	NSS	
B0046843		1.19	<0.5	6	25	109		0.266		
B0046844		1.07	<0.5	<5	14	37		0.083		
B0046845		0.51	<0.5	<5	9	27		<0.005		
B0046846		2.59	<0.5	<5	9	89		0.016		
B0046847		1.56	<0.5	<5	10	22		0.007		2.59
B0046848		2.00	<0.5	<5	7	19		0.090		
B0046849		2.15	<0.5	<5	22	24		0.064		
B0046850		2.07	<0.5	<5	6	26		0.151		
B0046851		2.08	<0.5	<5	5	26		0.114		
B0046852		2.30	<0.5	<5	3	28		1.810		
B0046853		2.09	<0.5	<5	<1	26		0.735		
B0046854		1.72	<0.5	<5	2	26		0.324		
B0046855		0.11	<0.5	<5	17	37		0.020		
B0046856		2.15	<0.5	<5	4	28		0.151		
B0046857		2.04	<0.5	<5	3	31		0.349		
B0046858		2.24	<0.5	<5	5	31		0.174		
B0046859		2.12	<0.5	<5	5	31		0.069		
B0046860		2.02	<0.5	<5	12	38		0.027		
B0046861		2.00	<0.5	<5	8	37		0.020		
B0046862		1.98	<0.5	<5	8	33		0.022		
B0046863		1.78	<0.5	<5	12	47		0.007		
B0046864		1.96	<0.5	<5	10	42		0.015		
B0046865		2.03	<0.5	<5	6	32		0.053		
B0046866		2.13	<0.5	<5	10	31		0.045		
B0046867		0.88	<0.5	<5	8	24		0.091		
B0046868		0.11	1.3	15	38	85		1.095		
B0046869		1.31	<0.5	<5	24	125		0.012		
B0046870		1.92	<0.5	<5	9	99		<0.005		2.55
B0046871		2.01	<0.5	<5	11	87		<0.005		
B0046872		2.23	<0.5	<5	8	100		<0.005		
B0046873		2.44	<0.5	<5	6	92		<0.005		
B0046874		2.14	<0.5	<5	8	93		<0.005		
B0046875		2.02	<0.5	<5	7	122		0.011		
B0046876		2.07	<0.5	<5	7	67		0.089		
B0046877		1.80	<0.5	<5	16	104		<0.005		
B0046878		2.37	<0.5	<5	23	85		<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20081758

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-AA24</td> <td>Au-GRA22</td> <td>ME-ICP61</td> <td>ME-OG62</td> </tr> <tr> <td>OA-GRA08b</td> <td>Zn-OG62</td> <td></td> <td></td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	ME-OG62	OA-GRA08b	Zn-OG62		
Au-AA24	Au-GRA22	ME-ICP61	ME-OG62						
OA-GRA08b	Zn-OG62								



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CERTIFICATE TB20081779

Project: VanHorne

This report is for 87 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 13-APR-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20081779

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046879		0.11	<0.5	<5	19	38	0.006		
B0046880		2.29	<0.5	<5	10	105	<0.005		
B0046881		2.22	<0.5	<5	48	87	<0.005		
B0046882		2.25	<0.5	<5	41	67	<0.005		
B0046883		2.31	<0.5	<5	47	80	<0.005		
B0046884		2.27	<0.5	<5	44	86	0.009		
B0046885		2.43	<0.5	<5	41	52	0.189		
B0046886		1.25	<0.5	10	78	54	0.720		
B0046887		1.89	0.5	12	16	44	0.603		
B0046888		1.37	<0.5	<5	79	83	0.056		
B0046889		2.26	<0.5	<5	62	84	<0.005		
B0046890		2.27	<0.5	<5	14	65	<0.005		
B0046891		1.05	<0.5	<5	25	86	<0.005		
B0046892		2.38	<0.5	<5	34	75	<0.005		
B0046893		2.00	0.6	<5	53	77	<0.005		
B0046894		0.11	1.2	14	42	88	1.010		
B0046895		1.37	<0.5	<5	46	99	<0.005		
B0046896		2.12	<0.5	<5	45	73	<0.005		
B0046897		1.11	<0.5	<5	5	120	<0.005		
B0046898		2.17	<0.5	<5	10	122	<0.005		
B0046899		2.22	<0.5	<5	6	119	<0.005		
B0046900		0.46	<0.5	<5	12	25	<0.005		
B0046901		2.26	<0.5	<5	23	95	<0.005		
B0046902		1.01	<0.5	<5	27	92	<0.005		
B0046903		2.21	<0.5	<5	40	85	<0.005		
B0046904		2.26	<0.5	<5	79	89	<0.005		
B0046905		1.89	<0.5	<5	42	91	<0.005		
B0046906		2.29	<0.5	<5	33	91	<0.005		
B0046907		0.11	1.4	5430	52	70	6.29	6.37	
B0046908		1.97	<0.5	9	15	88	<0.005		
B0046909		2.28	<0.5	<5	8	88	0.151		
B0046910		1.98	<0.5	<5	3	96	<0.005		
B0046911		1.91	<0.5	<5	1	94	<0.005		
B0046912		2.25	<0.5	<5	3	60	<0.005		
B0046913		1.06	<0.5	<5	17	85	<0.005		
B0046914		2.24	<0.5	<5	32	83	<0.005		
B0046915		2.16	<0.5	<5	39	83	0.013		
B0046916		2.20	<0.5	<5	56	92	<0.005		
B0046917		2.22	<0.5	<5	57	91	<0.005		
B0046918		1.70	<0.5	<5	27	99	0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20081779

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0046919		2.54	<0.5	<5	81	90	0.047		
B0046920		0.11	<0.5	<5	20	39	<0.005		
B0046921		2.29	<0.5	<5	32	90	0.008		
B0046922		2.17	<0.5	<5	19	90	0.082		
B0046923		2.27	<0.5	<5	27	82	<0.005		
B0046924		1.80	<0.5	<5	39	90	<0.005		
B0046925		2.03	<0.5	<5	27	92	0.007		
B0046926		2.23	<0.5	<5	78	93	0.377		
B0046927		2.24	<0.5	<5	14	99	0.683		
B0046928		2.13	<0.5	<5	37	116	<0.005		
B0046929		2.13	<0.5	<5	24	110	<0.005		
B0046930		1.27	<0.5	<5	29	94	<0.005		
B0046931		1.75	<0.5	<5	9	84	<0.005		
B0046932		1.84	<0.5	<5	6	102	<0.005		
B0046933		0.11	1.5	19	42	90	1.120		
B0046934		2.14	<0.5	<5	6	86	<0.005		
B0046935		2.33	<0.5	<5	<1	88	<0.005		
B0046936		2.47	<0.5	<5	38	94	<0.005		
B0046937		1.96	0.6	<5	22	121	0.195		
B0046938		2.47	<0.5	<5	9	23	0.282		
B0046939		1.88	<0.5	<5	11	22	0.026		
B0046940		2.21	<0.5	<5	9	31	0.012		2.61
B0046941		2.21	<0.5	<5	10	33	0.096		
B0046942		2.23	<0.5	<5	12	42	0.633		
B0046943		2.07	<0.5	<5	13	39	0.042		
B0046944		2.03	<0.5	<5	9	27	1.185		
B0046945		1.97	<0.5	<5	7	26	0.153		
B0046946		0.11	<0.5	<5	18	38	<0.005		
B0046947		1.28	<0.5	<5	11	24	1.095		
B0046948		1.89	<0.5	<5	18	29	0.051		
B0046949		1.52	0.6	<5	42	110	1.180		
B0046950		2.23	<0.5	<5	44	114	<0.005		2.82
B0046951		2.10	<0.5	<5	64	128	0.025		2.82
B0046952		1.43	<0.5	<5	53	136	0.482		
B0046953		1.34	<0.5	<5	4	28	<0.005		
B0046954		1.75	<0.5	<5	6	35	0.009		
B0046955		2.19	<0.5	<5	5	26	0.061		
B0046956		2.07	<0.5	<5	5	27	0.037		2.76
B0046957		0.43	<0.5	<5	6	31	<0.005		
B0046958		1.99	<0.5	<5	5	38	0.060		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20081779

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 As ppm 5	ME-ICP61 Cu ppm 1	ME-ICP61 Zn ppm 2	Au-AA24 Au ppm 0.005	Au-GRA22 Au ppm 0.05	OA-GRA08b S.G. Unity 0.01
B0046959		1.11	<0.5	<5	4	33	0.020		
B0046960		1.57	<0.5	<5	4	29	0.078		
B0046961		0.11	<0.5	<5	18	38	<0.005		
B0046962		2.24	0.7	<5	54	113	0.540		
B0046963		1.57	<0.5	<5	43	114	0.020		
B0046964		2.15	<0.5	<5	41	108	0.042		
B0046965		2.17	<0.5	<5	39	104	0.023		



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CERTIFICATE TB20173187

Project: Van Horne

This report is for 77 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 12-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: Van Horne

CERTIFICATE OF ANALYSIS TB20173187

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
B0046966		1.71	<0.5	<5	10	54	0.009	
B0046967		1.27	<0.5	5	11	50	0.359	
B0046968		0.93	<0.5	<5	14	30	0.492	
B0046969		1.27	<0.5	<5	21	22	0.044	
B0046970		1.15	<0.5	<5	11	14	0.027	
B0046971		2.24	<0.5	<5	35	105	0.006	
B0046972		0.11	0.7	6080	47	65	6.47	6.58
B0046973		2.10	<0.5	6	42	83	0.006	
B0046974		1.75	<0.5	<5	22	42	<0.005	
B0046975		2.27	<0.5	<5	55	99	<0.005	
B0046976		3.03	<0.5	<5	59	109	<0.005	
B0046977		2.52	<0.5	<5	70	97	<0.005	
B0046978		1.29	<0.5	<5	53	105	<0.005	
B0046979		2.48	<0.5	<5	61	105	<0.005	
B0046980		2.05	<0.5	<5	11	112	<0.005	
B0046981		2.35	<0.5	<5	5	86	<0.005	
B0046982		2.35	<0.5	<5	3	120	<0.005	
B0046983		2.17	<0.5	<5	3	132	<0.005	
B0046984		2.31	<0.5	<5	4	64	<0.005	
B0046985		0.46	<0.5	<5	10	18	<0.005	
B0046986		2.23	<0.5	<5	7	39	<0.005	
B0046987		1.02	<0.5	<5	4	50	<0.005	
B0046988		1.17	<0.5	<5	10	53	<0.005	
B0046989		1.14	<0.5	<5	9	29	<0.005	
B0046990		1.12	<0.5	<5	7	30	<0.005	
B0046991		1.34	<0.5	<5	5	30	<0.005	
B0046992		1.18	<0.5	<5	4	36	<0.005	
B0046993		1.03	<0.5	<5	1	64	<0.005	
B0046994		1.51	<0.5	<5	4	39	<0.005	
B0046995		1.23	<0.5	<5	10	47	<0.005	
B0046996		1.45	<0.5	<5	61	113	<0.005	
B0046997		2.39	<0.5	<5	63	95	<0.005	
B0046998		0.11	1.5	14	47	89	1.100	
B0046999		1.13	<0.5	<5	72	80	<0.005	
B0047000		1.10	<0.5	<5	63	106	<0.005	
B0047001		1.20	0.5	<5	49	85	<0.005	
B0047002		1.05	<0.5	<5	14	49	<0.005	
B0047003		2.36	<0.5	<5	69	152	<0.005	
B0047004		2.49	<0.5	<5	33	111	<0.005	
B0047005		2.16	<0.5	<5	41	125	<0.005	



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CERTIFICATE OF ANALYSIS TB20173187

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047006		2.40	<0.5	<5	19	91	<0.005	
B0047007		2.12	<0.5	<5	63	103	<0.005	
B0047008		2.18	<0.5	<5	70	119	<0.005	
B0047009		0.11	<0.5	<5	19	37	<0.005	
B0047010		2.24	<0.5	<5	52	150	<0.005	
B0047011		2.30	<0.5	<5	39	148	<0.005	
B0047012		2.23	<0.5	<5	37	134	<0.005	
B0047013		2.26	<0.5	<5	54	116	<0.005	
B0047014		1.98	<0.5	<5	76	118	<0.005	
B0047015		2.20	0.6	<5	33	118	<0.005	
B0047016		2.01	<0.5	<5	62	142	<0.005	
B0047017		2.36	<0.5	<5	19	83	<0.005	
B0047018		2.32	<0.5	<5	30	78	0.005	
B0047019		3.00	<0.5	<5	34	84	0.013	
B0047020		0.11	0.9	6280	50	68	6.60	NSS
B0047021		2.19	<0.5	9	16	53	0.701	
B0047022		1.65	<0.5	<5	56	91	0.017	
B0047023		2.34	<0.5	<5	54	87	0.013	
B0047024		1.30	<0.5	<5	50	76	0.014	
B0047025		1.11	<0.5	<5	57	83	0.027	
B0047026		2.30	<0.5	<5	50	94	<0.005	
B0047027		2.39	<0.5	<5	45	89	<0.005	
B0047028		2.27	<0.5	<5	77	95	<0.005	
B0047029		2.31	<0.5	<5	68	119	<0.005	
B0047030		2.07	<0.5	<5	31	80	<0.005	
B0047031		0.43	<0.5	<5	8	21	<0.005	
B0047032		2.22	<0.5	<5	33	135	<0.005	
B0047033		2.36	<0.5	<5	92	113	<0.005	
B0047034		1.57	<0.5	<5	64	163	<0.005	
B0047035		2.75	<0.5	<5	45	94	<0.005	
B0047036		2.10	<0.5	<5	15	86	<0.005	
B0047037		2.10	<0.5	<5	19	91	<0.005	
B0047038		2.07	<0.5	<5	48	98	<0.005	
B0047039		2.51	<0.5	<5	74	101	<0.005	
B0047040		2.25	0.5	<5	7	64	0.077	
B0047041		2.19	<0.5	<5	14	28	<0.005	
B0047042		0.11	1.6	14	41	89	1.085	



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To: KG EXPLORATION (CANADA) INC.
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 Account: KECIBQJN

Project: Van Horne

CERTIFICATE OF ANALYSIS TB20173187

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td></td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61					
Au-AA24	Au-GRA22	ME-ICP61							



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CERTIFICATE TB20178174

Project: VanHorne

This report is for 77 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20178174

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0047043		2.12	<0.5	<5	7	27	<0.005		
B0047044		2.24	<0.5	<5	27	34	<0.005		
B0047045		2.21	<0.5	<5	10	55	<0.005		
B0047046		1.13	<0.5	<5	27	92	0.007		
B0047047		1.14	<0.5	<5	19	98	<0.005		
B0047048		2.06	<0.5	<5	22	82	<0.005		
B0047049		2.25	<0.5	<5	16	109	<0.005		
B0047050		2.23	<0.5	<5	11	100	<0.005		
B0047051		0.46	<0.5	<5	8	27	<0.005		
B0047052		1.80	<0.5	<5	11	93	<0.005		
B0047053		1.87	<0.5	<5	6	76	<0.005		
B0047054		2.38	<0.5	<5	42	67	<0.005		
B0047055		1.60	<0.5	<5	9	54	<0.005		
B0047056		1.51	<0.5	<5	17	87	<0.005		
B0047057		2.28	<0.5	<5	6	85	<0.005		
B0047058		2.21	<0.5	<5	14	87	<0.005		2.76
B0047059		1.13	<0.5	<5	22	93	<0.005		
B0047060		1.11	<0.5	<5	17	187	<0.005		
B0047061		1.11	0.5	<5	14	126	<0.005		
B0047062		2.58	<0.5	<5	32	166	<0.005		
B0047063		2.20	<0.5	<5	72	102	<0.005		
B0047064		2.16	<0.5	<5	24	83	<0.005		
B0047065		0.11	0.6	6450	49	71	6.33	6.59	
B0047066		2.10	<0.5	8	9	123	<0.005		
B0047067		1.18	0.9	<5	14	132	<0.005		
B0047068		1.95	<0.5	<5	9	117	<0.005		
B0047069		2.09	<0.5	<5	18	64	0.052		
B0047070		2.15	<0.5	<5	1	49	<0.005		
B0047071		1.38	<0.5	<5	3	37	<0.005		
B0047072		1.45	<0.5	<5	24	156	0.032		
B0047073		1.56	<0.5	<5	6	65	<0.005		
B0047074		2.18	<0.5	<5	12	66	<0.005		
B0047075		2.07	<0.5	<5	6	38	<0.005		
B0047076		1.98	<0.5	<5	10	83	<0.005		2.84
B0047077		1.90	<0.5	<5	11	72	<0.005		
B0047078		0.11	<0.5	<5	19	37	<0.005		
B0047079		2.24	<0.5	<5	5	29	<0.005		
B0047080		2.15	<0.5	<5	9	40	<0.005		
B0047081		2.46	<0.5	<5	3	35	<0.005		
B0047082		1.92	<0.5	<5	5	34	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20178174

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047083		2.27	<0.5	<5	2	31	<0.005		
B0047084		2.33	<0.5	<5	2	30	<0.005		
B0047085		1.64	<0.5	<5	7	32	0.006		
B0047086		2.04	<0.5	<5	14	37	0.036		
B0047087		2.23	<0.5	<5	15	39	<0.005		
B0047088		1.16	0.5	<5	12	42	9.26	11.20	
B0047089		1.85	<0.5	<5	54	123	0.023		
B0047090		2.32	<0.5	<5	47	73	0.026		2.87
B0047091		0.11	1.4	14	41	89	1.025		
B0047092		2.33	<0.5	<5	73	64	<0.005		
B0047093		2.34	0.6	<5	34	66	0.006		
B0047094		2.06	<0.5	<5	53	80	<0.005		
B0047095		2.13	0.5	<5	61	87	<0.005		
B0047096		2.11	0.5	<5	35	74	<0.005		
B0047097		2.26	<0.5	<5	67	81	<0.005		
B0047098		2.07	<0.5	<5	52	69	<0.005		
B0047099		2.19	0.5	<5	58	67	<0.005		
B0047100		2.19	<0.5	<5	42	72	<0.005		
B0047101		2.24	0.5	<5	84	99	<0.005		
B0047102		2.08	<0.5	<5	38	93	0.020		
B0047103		2.18	0.5	<5	13	58	<0.005		
B0047104		0.59	0.5	<5	7	21	<0.005		
B0047105		2.21	<0.5	<5	31	70	<0.005		
B0047106		1.55	<0.5	<5	33	89	<0.005		
B0047107		1.55	<0.5	<5	44	111	<0.005		
B0047108		2.35	<0.5	<5	12	48	<0.005		
B0047109		1.90	<0.5	<5	8	109	<0.005		
B0047110		1.92	<0.5	<5	6	84	<0.005		
B0047111		1.89	<0.5	<5	8	117	<0.005		
B0047112		2.05	<0.5	<5	5	111	<0.005		
B0047113		1.72	<0.5	<5	11	92	<0.005		
B0047114		2.27	<0.5	<5	11	93	<0.005		
B0047115		1.22	<0.5	<5	8	84	<0.005		
B0047116		1.83	<0.5	<5	2	98	<0.005		
B0047117		2.05	<0.5	<5	4	119	<0.005		
B0047118		1.95	<0.5	<5	4	98	<0.005		
B0047119		2.59	0.6	8	19	117	0.013		



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 Finalized Date: 9-SEP-2020
 Account: KECIBQJN

CERTIFICATE TB20181485

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20181485

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047120		1.66	<0.5	7	15	74	<0.005	
B0047121		2.03	<0.5	9	25	91	<0.005	
B0047122		0.11	0.8	6540	54	74	6.20	6.60
B0047123		2.11	<0.5	13	52	142	<0.005	
B0047124		2.02	<0.5	8	70	97	<0.005	
B0047125		2.00	<0.5	<5	39	99	<0.005	
B0047126		1.99	<0.5	<5	45	76	<0.005	
B0047127		1.93	<0.5	5	57	68	<0.005	
B0047128		1.98	<0.5	<5	57	70	0.018	
B0047129		0.50	<0.5	5	7	27	<0.005	
B0047130		1.94	<0.5	<5	55	79	<0.005	
B0047131		1.96	<0.5	<5	40	69	<0.005	
B0047132		2.03	<0.5	<5	42	74	<0.005	
B0047133		1.84	<0.5	<5	60	72	<0.005	
B0047134		1.94	<0.5	<5	52	75	<0.005	
B0047135		1.95	<0.5	5	54	77	<0.005	
B0047136		1.18	<0.5	<5	69	69	<0.005	
B0047137		1.33	<0.5	<5	77	80	<0.005	
B0047138		1.32	<0.5	<5	36	96	<0.005	
B0047139		1.37	<0.5	<5	37	166	<0.005	
B0047140		0.89	<0.5	<5	99	426	<0.005	
B0047141		2.14	<0.5	5	5	41	<0.005	
B0047142		1.98	<0.5	<5	15	62	<0.005	
B0047143		0.11	1.5	17	40	92	0.982	
B0047144		2.30	<0.5	5	17	89	<0.005	
B0047145		2.21	<0.5	<5	18	83	<0.005	
B0047146		2.02	<0.5	5	22	82	<0.005	
B0047147		1.07	<0.5	<5	18	159	<0.005	
B0047148		1.30	<0.5	<5	7	66	<0.005	
B0047149		2.18	<0.5	5	20	66	0.476	
B0047150		1.20	<0.5	9	29	64	0.089	
B0047151		1.19	<0.5	5	35	79	0.006	
B0047152		2.34	<0.5	<5	44	76	0.005	
B0047153		2.27	<0.5	<5	29	74	<0.005	
B0047154		2.06	<0.5	5	25	79	<0.005	
B0047155		2.11	<0.5	<5	21	81	0.085	
B0047156		2.30	<0.5	<5	16	63	<0.005	
B0047157		0.11	<0.5	<5	18	40	0.005	
B0047158		2.15	<0.5	<5	11	76	<0.005	
B0047159		2.17	<0.5	<5	43	92	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20181485

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047160		2.06	<0.5	<5	14	80	<0.005	
B0047161		2.17	<0.5	<5	10	84	<0.005	
B0047162		2.20	<0.5	7	17	90	<0.005	
B0047163		2.18	<0.5	<5	16	91	<0.005	
B0047164		2.15	<0.5	<5	16	72	<0.005	
B0047165		2.32	<0.5	5	48	120	<0.005	
B0047166		2.15	<0.5	6	26	79	<0.005	
B0047167		2.16	<0.5	<5	14	64	<0.005	
B0047168		2.30	<0.5	<5	13	102	<0.005	
B0047169		2.13	<0.5	<5	16	134	<0.005	
B0047170		2.28	<0.5	<5	14	74	<0.005	
B0047171		0.11	1.9	6420	50	69	6.07	6.34
B0047172		2.14	<0.5	11	16	103	<0.005	
B0047173		2.27	<0.5	<5	16	94	<0.005	
B0047174		2.26	<0.5	<5	21	75	<0.005	
B0047175		2.35	<0.5	<5	20	87	<0.005	
B0047176		2.41	<0.5	<5	19	99	<0.005	
B0047177		2.26	<0.5	<5	24	83	<0.005	
B0047178		2.27	<0.5	<5	40	121	<0.005	
B0047179		2.24	<0.5	<5	22	75	<0.005	
B0047180		2.38	<0.5	<5	18	89	<0.005	
B0047181		2.31	<0.5	<5	29	82	<0.005	
B0047182		2.18	<0.5	<5	20	82	<0.005	
B0047183		2.25	<0.5	6	39	370	<0.005	
B0047184		2.20	0.5	<5	29	92	<0.005	
B0047185		0.44	<0.5	<5	10	31	0.012	
B0047186		2.24	0.5	5	38	99	<0.005	
B0047187		1.96	<0.5	<5	29	73	<0.005	
B0047188		1.67	<0.5	<5	9	61	<0.005	
B0047189		2.35	<0.5	<5	34	131	<0.005	
B0047190		2.24	<0.5	<5	72	80	<0.005	
B0047191		2.31	<0.5	<5	66	77	<0.005	
B0047192		2.37	<0.5	<5	59	80	<0.005	
B0047193		2.54	<0.5	<5	63	88	<0.005	
B0047194		2.35	<0.5	<5	47	79	<0.005	
B0047195		1.84	<0.5	<5	25	83	<0.005	
B0047196		1.23	<0.5	5	47	23	<0.005	
B0047197		1.55	<0.5	6	50	98	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20181485

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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 Account: KECIBQJN

CERTIFICATE TB20181487

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20181487

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047198		2.32	<0.5	6	57	82	<0.005	
B0047199		0.11	1.3	19	43	95	1.180	
B0047200		2.38	<0.5	<5	64	75	<0.005	
B0047201		2.27	<0.5	8	64	85	<0.005	
B0047202		1.54	<0.5	<5	64	89	<0.005	
B0047203		1.40	<0.5	<5	58	111	<0.005	
B0047204		1.80	<0.5	<5	21	108	<0.005	
B0047205		2.32	<0.5	<5	19	86	<0.005	
B0047206		2.37	<0.5	<5	27	60	<0.005	
B0047207		0.48	<0.5	<5	6	21	<0.005	
B0047208		2.10	<0.5	9	24	107	<0.005	
B0047209		2.02	<0.5	<5	17	126	<0.005	
B0047210		1.99	<0.5	<5	39	131	<0.005	
B0047211		2.01	<0.5	<5	19	118	<0.005	
B0047212		1.88	<0.5	<5	18	112	<0.005	
B0047213		1.19	<0.5	<5	18	116	<0.005	
B0047214		1.44	<0.5	<5	19	108	<0.005	
B0047215		0.89	<0.5	<5	24	110	<0.005	
B0047216		1.54	<0.5	<5	21	102	<0.005	
B0047217		2.02	<0.5	<5	10	96	<0.005	
B0047218		1.74	<0.5	<5	18	114	<0.005	
B0047219		2.07	<0.5	<5	26	128	<0.005	
B0047220		1.98	<0.5	<5	24	128	<0.005	
B0047221		0.11	1.0	6280	50	69	6.20	6.26
B0047222		2.14	<0.5	8	13	67	<0.005	
B0047223		1.03	<0.5	<5	<1	60	<0.005	
B0047224		0.85	<0.5	5	12	75	0.005	
B0047225		1.87	<0.5	<5	1	70	<0.005	
B0047226		1.89	<0.5	<5	13	61	<0.005	
B0047227		1.98	<0.5	<5	25	85	<0.005	
B0047228		1.78	<0.5	<5	42	116	<0.005	
B0047229		1.34	<0.5	6	54	115	<0.005	
B0047230		1.15	<0.5	<5	69	87	<0.005	
B0047231		1.60	<0.5	<5	31	61	<0.005	
B0047232		1.97	<0.5	<5	21	52	<0.005	
B0047233		1.96	<0.5	5	22	54	<0.005	
B0047234		1.96	<0.5	<5	25	47	<0.005	
B0047235		0.11	<0.5	<5	18	41	<0.005	
B0047236		1.95	<0.5	<5	59	95	0.138	
B0047237		2.09	<0.5	<5	81	100	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20181487

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047238		2.17	<0.5	<5	38	105	<0.005	
B0047239		2.04	<0.5	<5	9	103	<0.005	
B0047240		2.00	<0.5	<5	12	89	<0.005	
B0047241		2.07	<0.5	<5	51	104	<0.005	
B0047242		2.05	<0.5	13	67	111	0.006	
B0047243		1.98	<0.5	<5	28	102	<0.005	
B0047244		1.96	<0.5	<5	53	98	0.006	
B0047245		2.01	<0.5	<5	38	91	0.026	
B0047246		2.04	<0.5	5	28	113	<0.005	
B0047247		1.98	<0.5	<5	16	86	0.045	
B0047248		1.89	<0.5	<5	15	82	0.049	
B0047249		0.11	1.5	20	42	96	1.050	
B0047250		1.92	<0.5	<5	27	102	0.064	
B0047251		1.04	<0.5	<5	34	354	0.055	
B0047252		1.22	<0.5	<5	61	286	0.012	
B0047253		1.69	<0.5	<5	6	29	<0.005	
B0047254		1.89	<0.5	<5	17	114	<0.005	
B0047255		1.45	<0.5	<5	5	48	<0.005	
B0047256		1.27	<0.5	5	63	410	0.008	
B0047257		1.68	<0.5	<5	34	317	0.010	
B0047258		2.00	<0.5	5	14	187	<0.005	
B0047259		2.01	<0.5	<5	21	93	<0.005	
B0047260		2.11	<0.5	<5	43	132	<0.005	
B0047261		2.11	<0.5	<5	43	132	<0.005	
B0047262		2.18	<0.5	<5	23	111	<0.005	
B0047263		0.39	<0.5	<5	10	25	<0.005	
B0047264		2.21	<0.5	<5	65	114	<0.005	
B0047265		2.48	<0.5	<5	26	110	<0.005	
B0047266		2.08	<0.5	<5	38	109	0.024	
B0047267		1.69	<0.5	<5	34	99	0.007	
B0047268		2.27	<0.5	<5	84	101	0.797	
B0047269		1.04	0.6	7	185	70	2.79	
B0047270		1.36	<0.5	<5	72	120	0.015	
B0047271		1.60	<0.5	<5	66	116	<0.005	
B0047272		2.29	<0.5	<5	78	98	0.010	
B0047273		2.35	<0.5	<5	76	133	0.007	
B0047274		2.21	<0.5	<5	59	93	<0.005	
B0047275		2.10	<0.5	<5	62	92	<0.005	



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CERTIFICATE OF ANALYSIS TB20181487

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20184674

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 25-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20184674

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047276		3.09	<0.5	7	56	97	<0.005	
B0047277		0.11	1.8	19	40	87	1.015	
B0047278		2.45	<0.5	6	57	101	<0.005	
B0047279		1.92	<0.5	5	58	97	<0.005	
B0047280		2.31	<0.5	5	52	94	<0.005	
B0047281		2.20	<0.5	7	54	92	<0.005	
B0047282		2.34	<0.5	<5	64	105	<0.005	
B0047283		2.33	<0.5	<5	56	95	<0.005	
B0047284		2.27	<0.5	<5	57	91	<0.005	
B0047285		0.48	<0.5	<5	10	25	<0.005	
B0047286		2.59	<0.5	<5	48	80	<0.005	
B0047287		2.56	<0.5	<5	78	88	<0.005	
B0047288		2.73	<0.5	<5	61	63	<0.005	
B0047289		2.42	<0.5	<5	48	71	<0.005	
B0047290		2.67	<0.5	<5	67	74	<0.005	
B0047291		2.61	<0.5	<5	25	64	<0.005	
B0047292		2.42	<0.5	<5	30	87	<0.005	
B0047293		2.50	<0.5	<5	131	89	<0.005	
B0047294		2.47	<0.5	<5	57	94	<0.005	
B0047295		2.33	<0.5	<5	37	90	<0.005	
B0047296		2.44	<0.5	<5	18	102	<0.005	
B0047297		2.27	<0.5	<5	33	83	<0.005	
B0047298		2.68	<0.5	<5	81	106	<0.005	
B0047299		0.11	1.0	6390	52	68	6.34	NSS
B0047300		2.55	<0.5	14	24	90	<0.005	
B0047301		2.39	<0.5	<5	65	104	<0.005	
B0047302		2.52	<0.5	5	55	96	<0.005	
B0047303		2.32	<0.5	<5	27	18	<0.005	
B0047304		2.42	<0.5	<5	104	16	<0.005	
B0047305		2.62	<0.5	<5	42	16	<0.005	
B0047306		2.42	<0.5	<5	34	15	<0.005	
B0047307		2.38	<0.5	<5	15	13	<0.005	
B0047308		2.36	<0.5	<5	24	15	<0.005	
B0047309		2.44	<0.5	<5	45	14	<0.005	
B0047310		2.36	<0.5	<5	20	15	<0.005	
B0047311		2.29	<0.5	<5	22	14	<0.005	
B0047312		0.11	<0.5	<5	20	40	<0.005	
B0047313		2.34	<0.5	<5	29	48	<0.005	
B0047314		2.53	<0.5	<5	23	9	<0.005	
B0047315		2.41	<0.5	<5	11	9	<0.005	



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CERTIFICATE OF ANALYSIS TB20184674

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047316		2.46	<0.5	<5	37	58	<0.005	
B0047317		2.33	<0.5	<5	50	174	<0.005	
B0047318		2.21	<0.5	5	52	180	<0.005	
B0047319		2.22	<0.5	<5	45	135	<0.005	
B0047320		2.36	<0.5	<5	42	121	<0.005	
B0047321		2.52	<0.5	<5	51	142	<0.005	
B0047322		2.45	<0.5	<5	46	130	<0.005	
B0047323		2.29	<0.5	<5	36	155	<0.005	
B0047324		2.29	<0.5	5	38	139	<0.005	
B0047325		0.11	1.5	18	41	88	1.065	
B0047326		2.23	<0.5	<5	36	167	<0.005	
B0047327		2.59	<0.5	<5	36	151	<0.005	
B0047328		2.50	<0.5	<5	37	93	<0.005	
B0047329		2.44	<0.5	<5	37	71	<0.005	
B0047330		2.51	<0.5	<5	48	39	<0.005	
B0047331		2.46	<0.5	<5	60	30	<0.005	
B0047332		2.32	<0.5	5	44	47	<0.005	
B0047333		2.36	<0.5	<5	49	88	<0.005	
B0047334		2.17	<0.5	5	36	94	<0.005	
B0047335		2.12	<0.5	5	35	120	<0.005	
B0047336		2.54	<0.5	<5	54	98	0.007	
B0047337		2.34	<0.5	<5	47	78	<0.005	
B0047338		0.49	<0.5	<5	10	23	<0.005	
B0047339		2.45	<0.5	<5	33	84	0.006	
B0047340		1.58	<0.5	<5	26	80	0.038	
B0047341		1.35	0.5	<5	53	112	0.089	
B0047342		1.91	<0.5	<5	68	96	0.018	
B0047343		2.38	<0.5	<5	60	98	0.016	
B0047344		1.99	<0.5	<5	68	126	0.019	
B0047345		1.22	<0.5	<5	48	68	0.041	
B0047346		1.91	<0.5	<5	30	84	0.118	
B0047347		2.33	<0.5	<5	29	95	0.016	
B0047348		2.18	<0.5	<5	165	90	0.067	
B0047349		2.33	<0.5	<5	48	116	0.161	
B0047350		2.49	<0.5	<5	63	97	0.013	
B0047351		2.33	<0.5	<5	60	98	0.014	
B0047352		2.47	<0.5	<5	68	98	0.013	
B0047353		2.39	<0.5	<5	55	103	0.006	



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CERTIFICATE TB20185636

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20185636

Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
	0.02	0.5	5	1	2	0.005	0.05	0.01
B0047354	2.44	<0.5	<5	57	99	<0.005		
B0047355	2.30	<0.5	5	67	98	<0.005		
B0047356	0.11	0.6	6100	52	70	6.37	6.34	
B0047357	2.45	<0.5	<5	62	94	0.006		
B0047358	2.47	<0.5	<5	59	97	<0.005		
B0047359	2.32	<0.5	<5	53	100	<0.005		
B0047360	2.48	<0.5	<5	60	87	<0.005		
B0047361	2.24	<0.5	<5	60	87	<0.005		
B0047362	2.40	<0.5	<5	53	91	<0.005		
B0047363	0.51	<0.5	<5	7	24	<0.005		
B0047364	2.27	<0.5	<5	51	98	<0.005		
B0047365	2.19	<0.5	<5	49	89	<0.005		
B0047366	2.38	<0.5	<5	34	90	<0.005		
B0047367	2.31	<0.5	<5	48	87	<0.005		
B0047368	2.25	<0.5	<5	65	112	<0.005		
B0047369	2.19	0.5	<5	47	112	<0.005		
B0047370	2.37	<0.5	<5	44	120	<0.005		
B0047371	2.31	<0.5	<5	56	92	<0.005		
B0047372	2.35	<0.5	<5	46	100	<0.005		
B0047373	2.43	<0.5	<5	52	98	<0.005		
B0047374	2.43	<0.5	<5	44	95	<0.005		
B0047375	2.34	<0.5	<5	112	110	0.005		
B0047376	2.49	<0.5	<5	14	104	<0.005		
B0047377	0.11	1.5	18	42	90	1.040		
B0047378	2.51	<0.5	<5	30	89	<0.005		
B0047379	1.92	<0.5	5	9	107	<0.005		
B0047380	2.15	<0.5	<5	63	114	<0.005		
B0047381	2.55	<0.5	<5	78	122	<0.005		
B0047382	2.44	0.5	<5	88	101	<0.005		
B0047383	2.53	<0.5	<5	111	117	<0.005		
B0047384	2.33	<0.5	<5	91	119	<0.005		
B0047385	2.42	<0.5	<5	7	96	<0.005	2.79	
B0047386	2.07	<0.5	<5	6	103	<0.005		
B0047387	2.06	<0.5	<5	12	106	<0.005		
B0047388	2.26	<0.5	<5	11	153	<0.005		
B0047389	2.12	<0.5	<5	34	81	0.006		
B0047390	2.05	<0.5	<5	20	114	<0.005		
B0047391	0.11	<0.5	<5	19	38	<0.005		
B0047392	2.42	<0.5	<5	9	195	<0.005		
B0047393	2.07	<0.5	<5	40	93	<0.005		



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 Finalized Date: 15-SEP-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20185636

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047394		2.30	<0.5	<5	39	96	<0.005		
B0047395		2.18	<0.5	<5	22	92	<0.005		
B0047396		2.45	<0.5	<5	34	64	0.005		
B0047397		2.07	<0.5	<5	16	55	<0.005		
B0047398		2.11	<0.5	<5	37	53	<0.005		
B0047399		2.24	<0.5	<5	39	124	<0.005		
B0047400		1.94	<0.5	<5	21	72	<0.005		
B0047401		1.23	<0.5	<5	28	90	<0.005		
B0047402		2.38	<0.5	<5	45	123	0.009		
B0047403		2.88	<0.5	<5	13	80	<0.005		
B0047404		2.02	<0.5	<5	14	77	<0.005		
B0047405		0.11	0.9	6060	50	69	6.43	NSS	
B0047406		2.38	<0.5	9	18	75	0.006		
B0047407		2.03	<0.5	<5	17	90	<0.005		
B0047408		2.34	<0.5	<5	13	83	<0.005		
B0047409		2.20	<0.5	<5	19	74	<0.005		
B0047410		2.43	<0.5	<5	14	84	<0.005		
B0047411		2.24	<0.5	<5	22	77	<0.005		
B0047412		1.33	<0.5	<5	50	102	<0.005		
B0047413		1.36	<0.5	<5	28	87	<0.005		
B0047414		2.22	<0.5	<5	22	110	<0.005		
B0047415		2.21	<0.5	<5	20	113	<0.005		
B0047416		1.36	<0.5	<5	14	97	<0.005		
B0047417		2.59	<0.5	<5	26	101	<0.005		
B0047418		2.43	<0.5	<5	32	147	<0.005		
B0047419		0.47	0.7	<5	12	20	<0.005		
B0047420		2.26	<0.5	<5	18	95	<0.005		2.82
B0047421		2.16	<0.5	<5	11	90	<0.005		
B0047422		1.19	<0.5	<5	37	118	0.006		
B0047423		2.38	<0.5	<5	27	68	<0.005		
B0047424		2.47	<0.5	<5	15	36	0.026		
B0047425		2.34	<0.5	<5	44	129	0.005		
B0047426		2.35	<0.5	<5	49	157	<0.005		
B0047427		2.24	<0.5	<5	37	120	<0.005		
B0047428		2.38	<0.5	<5	24	107	<0.005		
B0047429		2.26	<0.5	<5	6	110	<0.005		2.93
B0047430		2.42	<0.5	<5	14	104	<0.005		
B0047431		2.40	<0.5	<5	5	110	<0.005		



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To: **KG EXPLORATION (CANADA) INC.**
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Page: 1
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 Finalized Date: 18-SEP-2020
 Account: KECIBQJN

CERTIFICATE TB20187969

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20187969

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047432		2.38	<0.5	<5	12	109	<0.005		
B0047433		0.11	1.2	15	40	87	1.055		2.69
B0047434		2.19	<0.5	<5	31	96	<0.005		
B0047435		2.26	<0.5	<5	105	96	<0.005		
B0047436		2.56	<0.5	<5	119	97	<0.005		
B0047437		1.62	<0.5	<5	21	111	<0.005		
B0047438		1.36	<0.5	<5	17	144	<0.005		
B0047439		2.39	<0.5	<5	22	90	<0.005		
B0047440		1.74	<0.5	<5	47	95	<0.005		
B0047441		1.96	<0.5	<5	64	91	<0.005		
B0047442		2.24	<0.5	<5	82	126	<0.005		
B0047443		2.37	<0.5	<5	45	117	<0.005		
B0047444		2.32	<0.5	<5	51	117	<0.005		
B0047445		2.40	<0.5	<5	56	115	<0.005		
B0047446		2.31	<0.5	<5	60	120	<0.005		
B0047447		2.31	<0.5	<5	46	115	<0.005		
B0047448		2.32	<0.5	<5	50	116	0.008		
B0047449		2.19	<0.5	<5	83	102	<0.005		
B0047450		2.20	<0.5	<5	51	110	<0.005		
B0047451		2.29	<0.5	<5	49	108	<0.005		
B0047452		2.35	<0.5	<5	66	102	<0.005		
B0047453		2.24	<0.5	<5	59	98	<0.005		
B0047454		2.34	<0.5	<5	60	99	<0.005		
B0047455		0.11	0.7	5790	49	65	6.15	6.26	
B0047456		2.28	<0.5	8	98	93	<0.005		
B0047457		2.45	<0.5	<5	57	90	<0.005		
B0047458		2.09	<0.5	<5	26	98	<0.005		
B0047459		2.18	<0.5	<5	38	99	<0.005		
B0047460		2.64	<0.5	<5	57	94	<0.005		
B0047461		2.22	<0.5	<5	74	96	<0.005		
B0047462		2.23	<0.5	<5	27	119	<0.005		
B0047463		2.45	<0.5	<5	92	109	<0.005		
B0047464		2.40	<0.5	<5	54	92	<0.005		2.76
B0047465		2.32	<0.5	<5	37	96	<0.005		
B0047466		1.63	0.7	<5	597	134	0.015		
B0047467		2.22	<0.5	<5	52	86	<0.005		
B0047468		2.40	<0.5	<5	47	107	<0.005		
B0047469		0.11	<0.5	<5	18	37	<0.005		
B0047470		2.48	<0.5	<5	43	112	0.006		
B0047471		2.22	<0.5	<5	48	100	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20187969

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0047472		1.76	<0.5	<5	46	98	<0.005		
B0047473		1.44	<0.5	<5	49	56	<0.005		
B0047474		1.54	<0.5	<5	48	98	<0.005		
B0047475		2.53	<0.5	<5	44	100	<0.005		
B0047476		2.41	<0.5	<5	39	101	<0.005		
B0047477		2.40	<0.5	<5	45	104	<0.005		
B0047478		1.07	<0.5	<5	64	102	0.005		
B0047479		2.60	<0.5	<5	49	92	0.007		
B0047480		2.26	<0.5	<5	46	110	0.008		
B0047481		2.38	<0.5	<5	51	84	1.795		2.80
B0047482		2.32	<0.5	<5	69	113	0.355		
B0047483		0.11	1.2	16	41	87	1.060		
B0047484		2.50	<0.5	<5	66	148	0.008		
B0047485		2.26	<0.5	<5	44	143	<0.005		
B0047486		2.28	<0.5	<5	88	142	0.029		
B0047487		1.64	<0.5	<5	74	89	<0.005		
B0047488		2.28	<0.5	<5	76	90	<0.005		
B0047489		2.46	<0.5	<5	69	89	<0.005		
B0047490		2.47	<0.5	<5	64	97	<0.005		
B0047491		2.18	<0.5	<5	60	108	<0.005		
B0047492		2.64	<0.5	<5	58	105	<0.005		2.93
B0047493		2.29	<0.5	<5	50	111	<0.005		
B0047494		2.32	<0.5	<5	47	108	<0.005		
B0047495		2.36	<0.5	<5	50	95	<0.005		
B0047496		2.44	<0.5	<5	61	93	<0.005		
B0047497		0.47	<0.5	<5	9	26	<0.005		
B0047498		2.45	<0.5	<5	47	115	<0.005		
B0047499		2.32	<0.5	<5	46	147	<0.005		
B0047500		2.06	<0.5	<5	38	193	<0.005		
B0047501		2.46	<0.5	<5	149	158	<0.005		
B0047502		2.44	<0.5	<5	126	104	<0.005		
B0047503		2.42	<0.5	<5	51	87	<0.005		
B0047504		2.45	<0.5	<5	51	85	<0.005		
B0047505		2.47	<0.5	<5	52	95	<0.005		
B0047506		2.22	<0.5	<5	51	98	<0.005		
B0047507		2.48	<0.5	<5	52	102	<0.005		
B0047508		2.47	<0.5	<5	40	97	<0.005		
B0047509		2.54	<0.5	<5	41	94	<0.005		



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 Total # Pages: 3 (A)
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 Finalized Date: 25-SEP-2020
 Account: KECIBQJN

CERTIFICATE TB20191572

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 1-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20191572

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0047510		2.70	<0.5	<5	69	81	<0.005		
B0047511		0.11	1.5	19	43	82	1.135		
B0047512		2.57	<0.5	<5	54	84	<0.005		
B0047513		2.45	<0.5	<5	49	88	<0.005		
B0047514		2.56	<0.5	<5	98	78	<0.005		
B0047515		2.64	<0.5	<5	51	90	<0.005		
B0047516		2.43	<0.5	<5	55	88	<0.005		
B0047517		2.54	<0.5	<5	55	85	<0.005		
B0047518		2.45	<0.5	<5	54	81	<0.005		
B0047519		0.50	<0.5	<5	8	23	<0.005		
B0047520		2.05	<0.5	<5	77	91	0.005		
B0047521		2.67	<0.5	<5	59	117	0.005		
B0047522		2.26	<0.5	<5	65	117	0.008		
B0047523		2.40	<0.5	<5	36	80	<0.005		
B0047524		2.39	<0.5	<5	50	97	0.008		
B0047525		2.40	<0.5	<5	27	96	0.008		
B0047526		2.51	<0.5	<5	56	84	0.006		
B0047527		2.38	<0.5	<5	64	88	0.005		
B0047528		2.41	<0.5	<5	44	100	<0.005		
B0047529		2.33	<0.5	<5	60	96	<0.005		
B0047530		2.35	<0.5	<5	42	111	<0.005		
B0047531		2.37	<0.5	<5	34	103	<0.005		
B0047532		2.30	<0.5	<5	35	101	<0.005		
B0047533		0.11	0.6	6330	49	69	6.30	7.18	
B0047534		2.48	<0.5	8	45	100	<0.005		
B0047535		2.51	<0.5	<5	108	123	0.005		
B0047536		2.43	<0.5	<5	110	110	0.005		
B0047537		2.41	<0.5	<5	43	112	<0.005		
B0047538		2.55	<0.5	<5	14	37	<0.005		
B0047539		2.21	<0.5	<5	10	36	<0.005		
B0047540		2.27	<0.5	<5	4	31	<0.005		
B0047541		2.46	<0.5	<5	59	101	0.011		
B0047542		2.40	<0.5	<5	37	100	0.053		
B0047543		2.65	<0.5	<5	67	89	0.056		
B0047544		2.40	<0.5	<5	16	37	0.068		
B0047545		2.53	<0.5	<5	10	37	0.012		
B0047546		0.11	<0.5	5	18	39	<0.005		
B0047547		2.34	<0.5	<5	10	37	0.055		
B0047548		2.19	<0.5	<5	14	38	0.008		
B0047549		2.48	<0.5	<5	64	106	0.007		



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 Finalized Date: 25-SEP-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20191572

Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
	0.02	0.5	5	1	2	0.005	0.05	0.01
B0047550	2.67	<0.5	<5	60	98	0.007		
B0047551	2.16	<0.5	<5	65	92	0.005		
B0047552	2.04	<0.5	6	55	91	<0.005		
B0047553	2.15	<0.5	7	60	91	<0.005		
B0047554	2.82	<0.5	7	64	90	<0.005		
B0047555	2.70	0.6	<5	41	83	<0.005		
B0047556	2.97	<0.5	<5	14	55	<0.005		
B0047557	2.16	<0.5	<5	31	118	<0.005		
B0047558	2.37	<0.5	<5	35	106	0.005		
B0047559	0.11	1.4	17	43	88	1.065		
B0047560	2.53	<0.5	<5	26	104	0.006		
B0047561	1.57	<0.5	<5	36	77	0.023		
B0047562	1.43	<0.5	<5	15	49	0.106		
B0047563	2.22	<0.5	<5	11	62	0.006		
B0047564	1.59	<0.5	<5	57	68	0.005		
B0047565	2.16	<0.5	<5	3	56	<0.005		
B0047566	1.32	<0.5	<5	12	67	<0.005		
B0047567	2.51	<0.5	<5	30	47	<0.005		
B0047568	2.51	<0.5	<5	13	84	<0.005		
B0047569	1.93	<0.5	<5	5	365	0.009		
B0047570	2.55	<0.5	<5	3	39	<0.005		
B0047571	2.48	<0.5	<5	6	565	<0.005		
B0047572	0.11	<0.5	<5	19	40	<0.005		
B0047573	2.50	<0.5	<5	2	146	<0.005		
B0047574	2.44	<0.5	<5	1	66	<0.005		2.63
B0047575	2.35	<0.5	<5	8	99	<0.005		
B0047576	2.15	0.5	<5	7	126	<0.005		
B0047577	2.39	<0.5	<5	3	34	<0.005		
B0047578	1.67	<0.5	<5	2	38	<0.005		
B0047579	1.30	<0.5	<5	3	45	<0.005		
B0047580	2.54	<0.5	<5	5	56	<0.005		
B0047581	2.25	<0.5	<5	32	40	<0.005		
B0047582	2.41	<0.5	<5	22	55	<0.005		
B0047583	1.27	<0.5	<5	11	45	<0.005		
B0047584	1.11	<0.5	<5	2	54	<0.005		
B0047585	2.10	<0.5	<5	7	62	<0.005		
B0047586	2.32	<0.5	<5	6	64	<0.005		
B0047587	2.47	<0.5	<5	55	109	0.005		



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CERTIFICATE TB20193765

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 3-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20193765

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047588		2.32	<0.5	<5	6	78	<0.005	
B0047589		2.43	<0.5	<5	2	75	<0.005	
B0047590		0.12	0.8	6290	51	71	6.37	NSS
B0047591		2.39	<0.5	6	1	70	<0.005	
B0047592		2.17	<0.5	<5	3	59	<0.005	
B0047593		2.24	<0.5	<5	3	63	<0.005	
B0047594		2.52	<0.5	<5	13	74	<0.005	
B0047595		2.30	<0.5	<5	2	71	<0.005	
B0047596		2.24	<0.5	<5	2	63	<0.005	
B0047597		0.55	<0.5	<5	7	25	<0.005	
B0047598		2.23	<0.5	<5	5	80	<0.005	
B0047599		2.36	<0.5	<5	20	71	<0.005	
B0047600		2.32	<0.5	<5	91	82	0.009	
B0047601		2.48	<0.5	<5	20	81	<0.005	
B0047602		2.57	<0.5	<5	13	80	<0.005	
B0047603		2.55	<0.5	<5	3	87	<0.005	
B0047604		2.31	<0.5	<5	2	64	<0.005	
B0047605		2.38	<0.5	<5	17	76	<0.005	
B0047606		1.42	<0.5	<5	36	95	<0.005	
B0047607		2.35	<0.5	<5	3	70	<0.005	
B0047608		2.34	<0.5	<5	9	86	<0.005	
B0047609		2.49	<0.5	<5	9	70	<0.005	
B0047610		2.21	<0.5	<5	1	53	<0.005	
B0047611		0.13	1.3	18	43	90	1.075	
B0047612		2.23	<0.5	<5	3	56	<0.005	
B0047613		1.93	<0.5	<5	1	68	<0.005	
B0047614		2.27	<0.5	<5	6	127	<0.005	
B0047615		2.24	<0.5	<5	2	77	<0.005	
B0047616		2.34	<0.5	<5	3	56	<0.005	
B0047617		2.21	<0.5	<5	3	34	<0.005	
B0047618		1.80	<0.5	<5	7	43	<0.005	
B0047619		1.31	<0.5	<5	19	154	<0.005	
B0047620		2.47	<0.5	<5	14	163	<0.005	
B0047621		1.41	<0.5	<5	17	111	<0.005	
B0047622		2.15	<0.5	<5	55	142	<0.005	
B0047623		1.53	<0.5	5	7	156	<0.005	
B0047624		2.38	<0.5	<5	5	39	<0.005	
B0047625		0.11	<0.5	<5	18	35	<0.005	
B0047626		2.05	<0.5	<5	5	58	<0.005	
B0047627		2.24	<0.5	<5	1	62	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20193765

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047628		2.18	<0.5	<5	2	61	<0.005	
B0047629		2.30	<0.5	<5	2	75	<0.005	
B0047630		2.37	<0.5	<5	3	69	<0.005	
B0047631		2.42	<0.5	<5	3	75	<0.005	
B0047632		2.16	<0.5	<5	4	64	<0.005	
B0047633		1.20	<0.5	6	22	126	<0.005	
B0047634		1.36	<0.5	<5	31	117	<0.005	
B0047635		2.45	<0.5	<5	54	120	<0.005	
B0047636		1.97	<0.5	<5	59	118	<0.005	
B0047637		2.92	<0.5	<5	58	117	<0.005	
B0047638		2.80	<0.5	<5	59	115	<0.005	
B0047639		0.11	0.8	6520	53	70	7.00	6.37
B0047640		2.85	<0.5	11	58	116	<0.005	
B0047641		2.32	1.4	7	19	68	0.386	
B0047642		2.23	<0.5	<5	27	67	<0.005	
B0047643		2.43	<0.5	<5	24	96	<0.005	
B0047644		2.17	<0.5	<5	13	74	<0.005	
B0047645		2.18	<0.5	<5	4	43	<0.005	
B0047646		2.46	<0.5	<5	2	45	<0.005	
B0047647		2.30	<0.5	<5	2	34	<0.005	
B0047648		2.31	<0.5	<5	5	29	<0.005	
B0047649		3.15	<0.5	<5	5	47	<0.005	
B0047650		1.57	<0.5	<5	21	96	<0.005	
B0047651		1.80	<0.5	5	11	81	0.138	
B0047652		1.62	<0.5	5	45	247	0.580	
B0047653		0.46	<0.5	<5	7	22	<0.005	
B0047654		2.36	<0.5	<5	26	166	<0.005	
B0047655		2.01	<0.5	<5	14	87	<0.005	
B0047656		1.26	<0.5	<5	12	51	<0.005	
B0047657		2.40	<0.5	<5	6	66	<0.005	
B0047658		2.09	<0.5	5	18	93	<0.005	
B0047659		2.35	<0.5	<5	4	92	<0.005	
B0047660		2.28	<0.5	<5	9	89	<0.005	
B0047661		2.27	<0.5	<5	4	71	<0.005	
B0047662		0.95	<0.5	<5	4	64	<0.005	
B0047663		2.39	<0.5	<5	6	78	<0.005	
B0047664		2.23	<0.5	<5	26	102	0.005	
B0047665		2.19	<0.5	<5	8	63	0.023	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20193765

CERTIFICATE COMMENTS													
	ANALYTICAL COMMENTS												
Applies to Method:	NSS is non-sufficient sample. ALL METHODS												
	LABORATORY ADDRESSES												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>LOG-23</td> </tr> <tr> <td></td> <td></td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21		PUL-31	PUL-QC	SPL-21	LOG-23				WEI-21
CRU-31	CRU-QC	LOG-21											
PUL-31	PUL-QC	SPL-21	LOG-23										
			WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 15%;"></td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61									
Au-AA24	Au-GRA22	ME-ICP61											



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CERTIFICATE TB20198897

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20198897

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047666		1.90	<0.5	<5	29	109	0.005		
B0047667		0.11	1.2	17	42	89	1.130		
B0047668		2.12	<0.5	<5	14	74	0.190		
B0047669		2.40	<0.5	<5	11	93	0.017		
B0047670		2.33	<0.5	<5	10	98	0.103		
B0047671		2.17	<0.5	<5	8	78	0.026		
B0047672		2.44	<0.5	<5	31	105	0.029		
B0047673		2.53	<0.5	<5	27	112	0.015		
B0047674		2.32	<0.5	<5	9	76	<0.005		
B0047675		0.47	<0.5	<5	9	26	<0.005		
B0047676		1.52	<0.5	<5	19	161	<0.005		
B0047677		1.98	<0.5	<5	17	99	0.234		
B0047678		2.85	<0.5	<5	5	103	0.055		
B0047679		2.40	<0.5	<5	5	83	0.022		
B0047680		2.45	<0.5	<5	7	88	<0.005		
B0047681		2.60	<0.5	<5	10	96	0.157		
B0047682		1.71	<0.5	<5	27	92	1.730		
B0047683		2.22	<0.5	<5	42	98	<0.005		
B0047684		1.35	<0.5	<5	41	101	<0.005		
B0047685		2.32	<0.5	<5	40	86	<0.005		
B0047686		1.19	<0.5	<5	53	75	0.008		
B0047687		1.22	<0.5	<5	26	41	1.145		
B0047688		1.34	<0.5	<5	37	94	0.774		
B0047689		0.07	0.5	6100	51	69	6.84	NSS	
B0047690		1.66	<0.5	8	15	155	1.700		
B0047691		1.69	<0.5	<5	4	102	0.005		2.65
B0047692		2.07	<0.5	<5	7	113	<0.005		
B0047693		1.56	<0.5	<5	30	64	0.018		
B0047694		1.45	<0.5	<5	16	51	0.438		
B0047695		2.14	<0.5	<5	16	87	<0.005		
B0047696		1.53	<0.5	<5	19	123	<0.005		
B0047697		2.49	<0.5	<5	30	54	<0.005		
B0047698		2.22	<0.5	<5	58	128	<0.005		
B0047699		2.37	<0.5	<5	55	118	<0.005		
B0047700		2.60	<0.5	<5	55	116	<0.005		
B0047701		2.55	<0.5	<5	48	123	<0.005		
B0047702		2.54	<0.5	<5	43	113	<0.005		
B0047703		1.56	<0.5	<5	19	85	<0.005		
B0047704		2.10	<0.5	<5	50	113	<0.005		
B0047705		0.11	<0.5	<5	19	39	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20198897

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0047706		2.23	<0.5	<5	5	49	<0.005		2.71
B0047707		2.21	<0.5	<5	1	44	<0.005		
B0047708		1.72	<0.5	<5	1	44	<0.005		
B0047709		2.29	<0.5	<5	2	47	<0.005		
B0047710		2.21	<0.5	<5	23	71	<0.005		
B0047711		2.27	<0.5	<5	33	122	<0.005		
B0047712		2.41	<0.5	<5	35	97	<0.005		
B0047713		2.25	<0.5	<5	16	74	<0.005		
B0047714		1.53	<0.5	<5	25	69	<0.005		
B0047715		2.37	<0.5	<5	25	72	<0.005		
B0047716		2.19	<0.5	<5	47	70	<0.005		
B0047717		0.11	1.2	15	44	94	1.055		
B0047718		2.19	<0.5	<5	59	92	0.005		
B0047719		1.45	<0.5	<5	44	106	0.006		
B0047720		1.58	<0.5	<5	22	71	0.015		
B0047721		1.52	<0.5	<5	2	28	<0.005		
B0047722		2.27	<0.5	<5	2	19	<0.005		
B0047723		2.49	<0.5	<5	2	32	<0.005		
B0047724		2.72	<0.5	<5	19	47	0.006		2.66
B0047725		1.75	<0.5	<5	15	58	0.014		
B0047726		2.25	<0.5	<5	9	40	<0.005		
B0047727		2.69	<0.5	<5	44	100	<0.005		
B0047728		2.78	<0.5	<5	111	109	<0.005		
B0047729		2.15	<0.5	<5	61	149	<0.005		
B0047730		2.34	<0.5	<5	77	142	<0.005		
B0047731		0.46	<0.5	<5	6	22	<0.005		
B0047732		1.91	<0.5	<5	59	124	0.006		2.79
B0047733		1.70	<0.5	<5	11	32	<0.005		
B0047734		1.40	<0.5	<5	49	102	<0.005		
B0047735		2.35	<0.5	<5	51	95	<0.005		
B0047736		2.40	<0.5	<5	85	125	<0.005		
B0047737		2.70	<0.5	<5	66	104	<0.005		
B0047738		2.57	<0.5	<5	147	191	<0.005		
B0047739		2.73	<0.5	<5	74	133	<0.005		2.79
B0047740		2.71	<0.5	<5	74	176	<0.005		
B0047741		2.39	<0.5	<5	41	80	<0.005		
B0047742		1.52	<0.5	<5	61	197	<0.005		
B0047743		2.28	<0.5	<5	12	151	<0.005		



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CERTIFICATE TB20198985

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 9-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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.

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Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20198985

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0047744		2.38	<0.5	<5	21	81	<0.005		
B0047745		0.11	1.6	18	43	92	1.075		
B0047746		2.10	<0.5	<5	15	86	<0.005		2.66
B0047747		2.18	<0.5	<5	11	84	<0.005		
B0047748		2.02	<0.5	<5	14	87	<0.005		
B0047749		1.75	<0.5	<5	40	87	<0.005		
B0047750		2.63	<0.5	<5	42	84	<0.005		
B0047751		2.29	<0.5	<5	18	132	<0.005		
B0047752		2.31	<0.5	<5	31	137	<0.005		
B0047753		0.50	<0.5	<5	7	19	<0.005		
B0047754		2.56	<0.5	<5	40	111	<0.005		
B0047755		2.14	<0.5	<5	52	92	<0.005		
B0047756		2.26	<0.5	<5	45	86	<0.005		
B0047757		2.32	<0.5	<5	17	98	<0.005		
B0047758		2.31	<0.5	<5	13	109	<0.005		
B0047759		2.12	<0.5	<5	16	99	<0.005		
B0047760		2.47	<0.5	<5	15	110	<0.005		
B0047761		2.56	<0.5	<5	21	103	<0.005		
B0047762		2.32	<0.5	<5	11	114	<0.005		
B0047763		2.47	<0.5	<5	80	110	<0.005		
B0047764		2.41	<0.5	<5	40	124	<0.005		
B0047765		2.30	<0.5	<5	17	99	<0.005		
B0047766		2.36	<0.5	<5	26	105	<0.005		
B0047767		0.11	0.6	5850	53	66	6.01	6.13	
B0047768		2.32	<0.5	5	20	110	<0.005		
B0047769		2.28	<0.5	<5	15	105	<0.005		
B0047770		2.09	<0.5	<5	28	103	<0.005		
B0047771		2.25	<0.5	<5	15	105	<0.005		
B0047772		2.20	<0.5	<5	23	106	<0.005		
B0047773		2.05	<0.5	<5	14	103	<0.005		
B0047774		2.33	<0.5	<5	26	100	<0.005		
B0047775		1.21	<0.5	<5	32	86	<0.005		
B0047776		1.43	<0.5	<5	51	79	<0.005		
B0047777		1.94	<0.5	<5	41	111	<0.005		
B0047778		2.36	<0.5	<5	46	128	<0.005		
B0047779		2.51	<0.5	<5	39	129	<0.005		
B0047780		0.11	<0.5	<5	19	38	0.011		
B0047781		2.46	<0.5	<5	62	74	<0.005		
B0047782		2.13	<0.5	<5	37	93	0.007		
B0047783		2.26	<0.5	<5	88	120	0.008		



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 Finalized Date: 28-SEP-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20198985

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047784		2.27	<0.5	<5	50	120	0.013		
B0047785		2.19	<0.5	<5	61	132	0.005		
B0047786		2.35	<0.5	<5	34	114	<0.005		
B0047787		2.20	<0.5	<5	22	160	<0.005		2.76
B0047788		2.39	<0.5	<5	15	165	<0.005		
B0047789		2.35	<0.5	<5	20	81	<0.005		
B0047790		1.94	<0.5	<5	1	82	<0.005		
B0047791		1.26	<0.5	<5	1	73	<0.005		
B0047792		1.96	<0.5	<5	2	79	<0.005		
B0047793		0.11	1.1	15	40	84	1.015		
B0047794		2.29	<0.5	<5	5	117	<0.005		
B0047795		2.49	<0.5	5	2	100	<0.005		
B0047796		2.24	<0.5	<5	1	85	<0.005		
B0047797		1.96	<0.5	<5	1	94	<0.005		
B0047798		2.46	<0.5	<5	1	84	<0.005		
B0047799		2.08	<0.5	<5	3	110	<0.005		
B0047800		2.35	<0.5	<5	15	179	0.010		
B0047801		2.10	<0.5	5	3	65	<0.005		
B0047802		2.43	<0.5	<5	1	65	<0.005		
B0047803		2.30	<0.5	<5	5	41	<0.005		
B0047804		2.05	<0.5	<5	5	41	<0.005		
B0047805		2.40	<0.5	<5	2	59	<0.005		
B0047806		0.52	<0.5	<5	7	27	<0.005		
B0047807		2.48	<0.5	<5	5	65	<0.005		
B0047808		2.18	<0.5	6	15	93	0.005		
B0047809		2.25	<0.5	<5	20	123	0.007		
B0047810		2.22	<0.5	<5	16	98	<0.005		
B0047811		1.99	<0.5	<5	10	74	<0.005		2.63
B0047812		2.27	<0.5	<5	30	79	0.006		
B0047813		2.29	<0.5	<5	21	67	0.069		
B0047814		1.59	<0.5	5	8	96	0.047		
B0047815		1.67	<0.5	<5	13	100	0.181		
B0047816		2.59	<0.5	<5	16	80	0.030		
B0047817		1.52	<0.5	6	3	50	0.070		
B0047818		2.35	<0.5	<5	14	84	<0.005		
B0047819		2.27	<0.5	<5	7	211	0.015		
B0047820		2.29	<0.5	<5	8	80	0.007		
B0047821		2.32	<0.5	<5	3	66	<0.005		



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CERTIFICATE TB20200019

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 10-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20200019

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0047822		2.20	<0.5	<5	10	50	<0.005		
B0047823		2.04	<0.5	<5	16	96	<0.005		
B0047824		0.11	0.9	6290	57	72	5.97	6.42	
B0047825		2.19	<0.5	6	14	111	<0.005		
B0047826		2.28	<0.5	<5	21	121	<0.005		2.77
B0047827		2.56	<0.5	<5	30	143	0.006		
B0047828		2.38	<0.5	<5	16	125	<0.005		
B0047829		2.07	<0.5	<5	14	46	<0.005		
B0047830		2.20	<0.5	5	5	28	0.345		
B0047831		0.51	<0.5	<5	9	25	<0.005		
B0047832		1.41	<0.5	5	9	55	0.656		
B0047833		1.62	<0.5	<5	7	104	0.040		
B0047834		2.03	<0.5	<5	9	105	0.117		
B0047835		2.43	<0.5	<5	6	93	0.112		
B0047836		2.46	<0.5	<5	6	93	<0.005		
B0047837		2.26	<0.5	<5	16	152	0.051		
B0047838		2.38	<0.5	<5	10	117	<0.005		
B0047839		2.25	<0.5	<5	12	76	<0.005		
B0047840		2.18	<0.5	<5	9	116	<0.005		
B0047841		2.22	<0.5	<5	14	120	<0.005		
B0047842		1.82	<0.5	<5	4	31	<0.005		
B0047843		2.73	<0.5	<5	15	31	<0.005		
B0047844		1.30	<0.5	<5	16	60	<0.005		
B0047845		0.11	1.5	17	42	90	1.075		
B0047846		2.19	<0.5	<5	50	94	0.007		
B0047847		1.13	0.9	<5	12	851	0.105		
B0047848		1.46	<0.5	<5	3	19	<0.005		
B0047849		1.34	<0.5	<5	12	43	<0.005		
B0047850		1.80	<0.5	<5	12	37	<0.005		
B0047851		1.85	<0.5	<5	23	34	<0.005		
B0047852		2.25	<0.5	<5	12	30	<0.005		
B0047853		0.59	<0.5	<5	7	23	<0.005		
B0047854		2.79	<0.5	<5	14	27	0.188		
B0047855		2.47	<0.5	<5	5	27	<0.005		
B0047856		2.20	<0.5	<5	8	37	<0.005		2.70
B0047857		2.04	<0.5	<5	15	42	<0.005		
B0047858		2.22	<0.5	<5	9	46	0.010		
B0047859		2.16	<0.5	<5	5	40	<0.005		
B0047860		2.11	<0.5	<5	15	85	0.023		
B0047861		1.51	<0.5	<5	17	74	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20200019

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0047862		1.52	<0.5	<5	28	85	<0.005		
B0047863		1.73	<0.5	<5	30	85	0.006		
B0047864		1.10	<0.5	<5	27	72	0.125		
B0047865		0.97	<0.5	<5	26	94	0.100		
B0047866		2.14	<0.5	<5	27	92	0.005		
B0047867		0.11	0.6	6270	51	71	6.38	6.45	
B0047868		2.19	<0.5	<5	8	81	<0.005		
B0047869		2.04	<0.5	<5	8	85	<0.005		
B0047870		1.21	<0.5	<5	24	114	<0.005		
B0047871		1.21	<0.5	<5	22	96	0.006		
B0047872		0.99	<0.5	<5	16	70	0.075		
B0047873		1.26	<0.5	<5	23	86	0.159		
B0047874		2.22	<0.5	<5	8	61	0.158		
B0047875		2.13	<0.5	<5	7	65	<0.005		
B0047876		2.24	<0.5	<5	11	57	0.073		
B0047877		2.01	<0.5	<5	12	82	0.043		
B0047878		1.89	<0.5	<5	21	70	0.037		
B0047879		2.24	<0.5	<5	15	95	<0.005		
B0047880		0.11	<0.5	5	19	38	<0.005		
B0047881		2.11	<0.5	<5	20	105	1.540		
B0047882		2.19	<0.5	<5	18	181	0.040		
B0047883		2.07	<0.5	<5	8	87	0.007		
B0047884		2.15	<0.5	<5	65	159	0.005		
B0047885		1.92	<0.5	<5	18	82	<0.005		
B0047886		2.04	<0.5	<5	20	95	<0.005		
B0047887		2.16	<0.5	<5	56	124	<0.005		
B0047888		2.10	<0.5	<5	18	68	<0.005		
B0047889		2.04	<0.5	<5	61	161	<0.005		
B0047890		2.22	<0.5	<5	9	65	<0.005		
B0047891		2.13	<0.5	<5	6	94	<0.005		
B0047892		2.13	<0.5	<5	8	65	<0.005		
B0047893		0.11	1.5	19	43	90	1.075		
B0047894		2.15	<0.5	<5	7	88	<0.005		
B0047895		1.92	<0.5	<5	3	95	<0.005		
B0047896		1.86	<0.5	<5	3	62	<0.005		
B0047897		2.03	<0.5	<5	3	83	<0.005		
B0047898		2.15	<0.5	<5	1	82	<0.005		
B0047899		2.03	<0.5	<5	3	122	<0.005		



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 Account: KECIBQJN

CERTIFICATE TB20203496

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 14-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20203496

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GR22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047900		2.26	<0.5	<5	3	136	<0.005	
B0047901		0.11	1.4	18	42	89	1.230	
B0047902		2.22	<0.5	<5	5	151	<0.005	
B0047903		2.15	<0.5	<5	4	155	<0.005	
B0047904		2.13	<0.5	<5	16	118	<0.005	
B0047905		2.37	<0.5	<5	58	202	<0.005	
B0047906		2.22	<0.5	<5	22	169	<0.005	
B0047907		2.28	<0.5	<5	33	100	<0.005	
B0047908		2.21	<0.5	<5	6	50	<0.005	
B0047909		0.54	<0.5	<5	8	35	<0.005	
B0047910		2.11	<0.5	<5	32	72	<0.005	
B0047911		2.29	<0.5	<5	14	65	<0.005	
B0047912		2.20	<0.5	<5	10	24	<0.005	
B0047913		2.01	<0.5	<5	18	50	<0.005	
B0047914		2.37	<0.5	<5	13	46	<0.005	
B0047915		2.32	<0.5	<5	55	121	<0.005	
B0047916		2.19	<0.5	<5	52	105	<0.005	
B0047917		2.28	<0.5	<5	21	94	<0.005	
B0047918		2.22	<0.5	<5	40	115	<0.005	
B0047919		2.35	<0.5	<5	50	121	<0.005	
B0047920		2.35	<0.5	<5	48	106	<0.005	
B0047921		2.44	<0.5	<5	50	101	0.017	
B0047922		2.16	<0.5	5	54	121	0.371	
B0047923		0.11	1.1	6430	50	69	6.43	6.80
B0047924		2.17	<0.5	<5	10	42	0.007	
B0047925		2.32	<0.5	<5	20	57	0.011	
B0047926		2.16	<0.5	6	55	90	<0.005	
B0047927		2.83	<0.5	<5	44	69	<0.005	
B0047928		3.09	<0.5	5	63	116	0.045	
B0047929		1.24	<0.5	7	141	69	0.268	
B0047930		2.08	<0.5	<5	51	27	0.043	
B0047931		2.23	<0.5	<5	8	41	0.034	
B0047932		2.30	<0.5	<5	2	64	0.302	
B0047933		2.33	<0.5	<5	56	101	0.006	
B0047934		2.31	<0.5	<5	131	113	0.015	
B0047935		2.44	<0.5	<5	56	104	0.008	
B0047936		2.25	<0.5	<5	53	92	<0.005	
B0047937		0.11	<0.5	5	19	40	<0.005	
B0047938		2.25	<0.5	5	46	73	0.005	
B0047939		2.18	<0.5	<5	27	97	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20203496

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0047940		2.32	<0.5	<5	24	98	<0.005	
B0047941		2.27	<0.5	<5	51	121	<0.005	
B0047942		2.25	<0.5	<5	40	93	<0.005	
B0047943		2.34	<0.5	<5	37	111	<0.005	
B0047944		2.33	<0.5	<5	40	114	<0.005	
B0047945		2.29	<0.5	<5	50	98	<0.005	
B0047946		2.21	<0.5	<5	35	102	<0.005	
B0047947		2.19	<0.5	<5	50	103	<0.005	
B0047948		2.27	<0.5	<5	48	103	<0.005	
B0047949		2.31	<0.5	<5	26	104	<0.005	
B0047950		2.33	<0.5	<5	78	94	<0.005	
B0047951		0.11	1.2	16	42	92	1.015	
B0047952		2.11	0.5	5	54	96	<0.005	
B0047953		2.27	<0.5	<5	49	88	<0.005	
B0047954		2.18	<0.5	<5	55	96	<0.005	
B0047955		2.25	<0.5	<5	53	101	<0.005	
B0047956		2.66	<0.5	<5	57	128	<0.005	
B0047957		1.95	<0.5	<5	2	21	<0.005	
B0047958		2.24	<0.5	<5	<1	24	<0.005	
B0047959		2.15	<0.5	<5	2	28	<0.005	
B0047960		2.06	<0.5	<5	1	27	<0.005	
B0047961		2.13	<0.5	<5	<1	24	<0.005	
B0047962		2.13	<0.5	<5	<1	41	<0.005	
B0047963		2.05	<0.5	<5	2	36	<0.005	
B0047964		2.16	<0.5	<5	4	57	0.005	
B0047965		0.60	<0.5	<5	8	22	<0.005	
B0047966		2.13	<0.5	<5	1	39	<0.005	
B0047967		2.15	<0.5	<5	<1	38	<0.005	
B0047968		2.20	<0.5	<5	2	47	<0.005	
B0047969		2.22	<0.5	<5	2	33	<0.005	
B0047970		2.17	<0.5	<5	3	32	<0.005	
B0047971		2.12	<0.5	<5	8	29	3.47	3.66
B0047972		2.11	<0.5	<5	24	104	0.105	
B0047973		1.43	<0.5	<5	44	534	0.068	
B0047974		3.03	<0.5	<5	5	105	<0.005	
B0047975		2.40	<0.5	<5	5	80	0.005	
B0047976		2.19	<0.5	<5	17	71	<0.005	
B0047977		2.28	<0.5	<5	5	62	<0.005	



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25 YORK STREET 17TH FLOOR
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 Finalized Date: 14-OCT-2020
 Account: KECIBQJN

CERTIFICATE TB20205629

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 16-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20205629

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0047978		2.24	<0.5	<5	9	48	<0.005		
B0047979		0.11	1.8	15	43	90	1.045		
B0047980		2.08	0.5	<5	9	83	<0.005		
B0047981		2.19	0.5	<5	9	39	<0.005		
B0047982		2.24	0.6	<5	12	40	<0.005		
B0047983		2.16	<0.5	<5	9	54	<0.005		
B0047984		2.40	0.5	<5	22	113	<0.005		
B0047985		2.43	<0.5	<5	30	113	<0.005		
B0047986		2.35	<0.5	<5	28	90	<0.005		
B0047987		0.48	0.5	<5	11	28	<0.005		
B0047988		2.29	0.5	<5	26	48	<0.005		
B0047989		2.39	<0.5	<5	4	42	<0.005		
B0047990		2.18	0.8	<5	3	47	<0.005		
B0047991		2.27	0.5	<5	14	79	<0.005		
B0047992		2.12	<0.5	<5	6	47	<0.005		
B0047993		2.32	<0.5	<5	5	45	<0.005		
B0047994		2.28	<0.5	<5	7	38	<0.005		
B0047995		2.48	<0.5	<5	11	31	<0.005		
B0047996		2.21	<0.5	<5	21	77	<0.005		
B0047997		2.14	<0.5	<5	2	36	<0.005		
B0047998		2.29	<0.5	<5	1	21	<0.005		
B0047999		2.12	<0.5	<5	2	30	<0.005		
B0048000		2.35	<0.5	<5	4	33	<0.005		
B0048001		0.11	0.8	5690	55	72	6.65	6.38	
B0048002		2.30	<0.5	6	13	65	0.039		
B0048003		2.20	<0.5	<5	4	37	0.005		
B0048004		2.37	<0.5	<5	10	30	<0.005	2.54	
B0048005		2.27	<0.5	<5	24	97	<0.005		
B0048006		2.54	<0.5	<5	70	171	0.007		
B0048007		2.52	<0.5	<5	62	142	<0.005		
B0048008		2.46	<0.5	<5	15	72	<0.005		
B0048009		2.39	<0.5	<5	7	53	<0.005		
B0048010		2.83	<0.5	<5	48	247	<0.005		
B0048011		2.02	<0.5	<5	61	247	<0.005		
B0048012		2.35	<0.5	<5	50	107	<0.005		
B0048013		2.48	<0.5	<5	18	62	<0.005		
B0048014		0.11	<0.5	<5	19	38	<0.005		
B0048015		2.09	<0.5	<5	39	90	<0.005		
B0048016		2.26	<0.5	<5	20	78	<0.005		
B0048017		2.06	<0.5	<5	15	84	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20205629

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0048018		2.49	<0.5	<5	20	93	<0.005		
B0048019		2.41	<0.5	<5	22	91	<0.005		
B0048020		2.44	<0.5	<5	14	83	<0.005		
B0048021		2.19	<0.5	<5	7	97	<0.005		
B0048022		2.27	<0.5	<5	24	108	<0.005		
B0048023		2.24	<0.5	<5	42	57	<0.005		
B0048024		1.89	<0.5	<5	24	82	<0.005		
B0048025		2.45	<0.5	<5	35	84	<0.005		
B0048026		2.59	<0.5	<5	25	88	<0.005		
B0048027		0.07	1.6	14	44	93	0.934		
B0048028		2.44	<0.5	<5	65	161	<0.005		
B0048029		2.49	<0.5	<5	41	83	<0.005		2.70
B0048030		2.05	<0.5	<5	24	60	<0.005		
B0048031		2.58	<0.5	<5	25	113	<0.005		
B0048032		2.41	<0.5	<5	2	58	<0.005		
B0048033		2.45	<0.5	<5	18	106	<0.005		
B0048034		2.42	<0.5	<5	3	82	<0.005		
B0048035		2.29	<0.5	<5	12	70	<0.005		
B0048036		2.16	<0.5	<5	15	54	<0.005		
B0048037		2.30	<0.5	5	38	108	0.006		
B0048038		2.02	<0.5	<5	32	97	0.289		
B0048039		2.32	<0.5	<5	9	70	0.015		
B0048040		0.61	<0.5	5	11	26	<0.005		
B0048041		2.06	<0.5	<5	7	132	<0.005		
B0048042		2.45	<0.5	<5	9	60	<0.005		
B0048043		2.27	<0.5	<5	17	122	<0.005		
B0048044		2.39	<0.5	<5	7	97	<0.005		
B0048045		2.61	<0.5	<5	13	90	<0.005		
B0048046		2.26	<0.5	<5	8	111	<0.005		
B0048047		2.34	<0.5	5	14	319	<0.005		
B0048048		2.36	<0.5	<5	15	102	<0.005		
B0048049		2.34	<0.5	6	21	121	<0.005		
B0048050		2.17	<0.5	<5	14	109	<0.005		
B0048051		2.22	<0.5	<5	10	90	<0.005		
B0048052		2.25	<0.5	<5	8	105	<0.005		
B0048053		2.32	<0.5	<5	12	95	<0.005		
B0048054		2.33	<0.5	<5	30	100	<0.005		
B0048055		2.30	<0.5	<5	5	71	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20205629

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20207474

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 17-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20207474

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	ME-ICP61 Ag ppm 0.5	ME-ICP61 As ppm 5	ME-ICP61 Cu ppm 1	ME-ICP61 Zn ppm 2	Au-AA24 Au ppm 0.005	Au-GRA22 Au ppm 0.05
B0048056		2.39	<0.5	<5	15	157	<0.005	
B0048057		2.35	<0.5	<5	13	77	<0.005	
B0048058		0.07	<0.5	6610	53	71	6.09	6.24
B0048059		2.44	<0.5	9	18	52	<0.005	
B0048060		2.30	<0.5	<5	17	109	<0.005	
B0048061		2.42	<0.5	<5	23	273	<0.005	
B0048062		2.53	<0.5	<5	4	172	<0.005	
B0048063		2.33	<0.5	<5	5	75	<0.005	
B0048064		2.24	<0.5	<5	5	150	<0.005	
B0048065		0.61	<0.5	<5	9	21	<0.005	
B0048066		2.29	0.5	<5	8	82	<0.005	
B0048067		2.20	<0.5	<5	6	72	<0.005	
B0048068		2.25	<0.5	<5	8	153	<0.005	
B0048069		2.46	<0.5	<5	3	106	<0.005	
B0048070		2.24	<0.5	<5	9	120	<0.005	
B0048071		2.29	<0.5	<5	10	83	<0.005	
B0048072		2.39	<0.5	<5	6	83	<0.005	
B0048073		2.28	<0.5	<5	9	68	<0.005	
B0048074		2.35	<0.5	<5	13	85	<0.005	
B0048075		2.26	<0.5	<5	9	106	<0.005	
B0048076		2.30	<0.5	<5	5	97	<0.005	
B0048077		2.31	<0.5	<5	4	102	<0.005	
B0048078		2.37	<0.5	<5	8	86	<0.005	
B0048079		0.11	1.6	15	43	89	1.055	
B0048080		2.36	<0.5	<5	6	74	<0.005	
B0048081		2.14	<0.5	<5	15	84	<0.005	
B0048082		2.33	<0.5	<5	9	118	<0.005	
B0048083		2.34	<0.5	<5	7	78	<0.005	
B0048084		2.49	<0.5	<5	8	89	<0.005	
B0048085		2.36	<0.5	<5	8	150	<0.005	
B0048086		2.51	0.6	7	16	105	<0.005	
B0048087		2.31	<0.5	<5	38	84	<0.005	
B0048088		2.31	<0.5	<5	5	102	<0.005	
B0048089		2.36	<0.5	<5	14	92	<0.005	
B0048090		2.33	<0.5	<5	16	150	<0.005	
B0048091		1.14	<0.5	<5	19	66	<0.005	
B0048092		0.11	<0.5	5	19	38	<0.005	
B0048093		1.24	<0.5	<5	15	84	<0.005	
B0048094		1.15	<0.5	<5	19	83	<0.005	
B0048095		1.30	<0.5	<5	44	86	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20207474

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0048096		1.27	<0.5	<5	16	104	<0.005	
B0048097		2.29	<0.5	<5	12	71	<0.005	
B0048098		1.22	0.5	<5	37	121	<0.005	
B0048099		2.03	<0.5	<5	5	69	<0.005	
B0048100		1.32	0.5	<5	17	69	<0.005	
B0048101		2.29	<0.5	<5	11	71	<0.005	
B0048102		2.12	<0.5	<5	10	91	<0.005	
B0048103		1.85	<0.5	<5	3	73	<0.005	
B0048104		1.74	<0.5	<5	3	51	<0.005	
B0048105		2.25	<0.5	<5	59	104	<0.005	
B0048106		2.14	<0.5	<5	12	87	<0.005	
B0048107		0.11	0.6	5130	49	67	6.38	6.42
B0048108		2.43	<0.5	7	17	72	<0.005	
B0048109		2.52	<0.5	<5	12	156	<0.005	
B0048110		2.33	<0.5	<5	5	89	<0.005	
B0048111		2.35	<0.5	6	2	102	<0.005	
B0048112		2.27	<0.5	<5	5	89	<0.005	
B0048113		1.08	<0.5	<5	24	77	<0.005	
B0048114		2.20	<0.5	<5	45	95	<0.005	
B0048115		2.34	<0.5	<5	64	109	<0.005	
B0048116		2.27	<0.5	<5	31	61	<0.005	
B0048117		2.35	<0.5	<5	66	114	<0.005	
B0048118		2.38	<0.5	<5	37	79	<0.005	
B0048119		2.34	<0.5	<5	53	164	<0.005	
B0048120		2.41	<0.5	<5	56	147	<0.005	
B0048121		0.53	<0.5	<5	7	26	<0.005	
B0048122		2.32	<0.5	<5	35	72	<0.005	
B0048123		2.16	<0.5	<5	20	89	<0.005	
B0048124		2.28	<0.5	<5	20	64	<0.005	
B0048125		2.60	<0.5	<5	18	60	<0.005	
B0048126		2.12	0.5	<5	39	59	<0.005	
B0048127		2.48	<0.5	<5	27	48	<0.005	
B0048128		2.29	<0.5	<5	34	90	<0.005	
B0048129		2.18	<0.5	<5	89	73	<0.005	
B0048130		2.05	<0.5	5	36	53	<0.005	
B0048131		2.24	<0.5	5	38	56	<0.005	
B0048132		1.85	<0.5	<5	28	67	<0.005	
B0048133		1.87	<0.5	<5	37	60	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20207474

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20210946

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20210946

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0048134		2.41	<0.5	23	30	57	<0.005		
B0048135		0.07	1.4	17	42	86	1.025		
B0048136		2.28	<0.5	<5	23	55	<0.005		
B0048137		2.09	<0.5	<5	19	61	<0.005		
B0048138		2.31	<0.5	<5	17	34	<0.005		
B0048139		2.28	<0.5	<5	13	31	<0.005		
B0048140		2.28	<0.5	<5	5	21	<0.005		
B0048141		2.28	<0.5	<5	3	28	<0.005		
B0048142		2.42	<0.5	<5	6	23	<0.005		
B0048143		0.60	<0.5	6	8	24	<0.005		
B0048144		2.45	<0.5	<5	60	103	<0.005		
B0048145		1.15	<0.5	<5	37	108	<0.005		
B0048146		1.18	<0.5	<5	10	107	<0.005		
B0048147		1.13	<0.5	<5	1	86	<0.005		
B0048148		2.22	<0.5	<5	3	26	<0.005		
B0048149		2.15	<0.5	<5	1	27	<0.005		
B0048150		2.20	<0.5	<5	1	28	<0.005		
B0048151		2.20	<0.5	<5	1	28	<0.005		
B0048152		2.12	<0.5	<5	1	34	<0.005		
B0048153		2.24	<0.5	<5	1	32	<0.005		
B0048154		2.25	<0.5	<5	<1	31	<0.005		
B0048155		2.22	<0.5	<5	1	45	<0.005		
B0048156		1.35	<0.5	<5	13	53	<0.005		
B0048157		0.07	1.0	5700	53	70	6.44	6.09	
B0048158		1.26	<0.5	<5	21	80	<0.005		
B0048159		1.25	<0.5	<5	11	89	<0.005		
B0048160		1.11	<0.5	<5	12	76	<0.005		
B0048161		1.22	<0.5	<5	8	74	<0.005		
B0048162		2.26	<0.5	<5	33	96	0.005		
B0048163		1.87	<0.5	<5	16	43	<0.005		
B0048164		2.19	<0.5	<5	28	72	<0.005		
B0048165		2.32	<0.5	5	28	67	<0.005		
B0048166		2.39	<0.5	<5	18	86	<0.005		
B0048167		2.38	<0.5	<5	21	97	0.057		
B0048168		2.33	<0.5	<5	26	126	0.005		
B0048169		2.43	<0.5	<5	28	108	<0.005		
B0048170		2.31	<0.5	<5	25	61	0.006		
B0048171		0.11	<0.5	<5	18	36	<0.005		
B0048172		2.36	<0.5	<5	13	66	<0.005		
B0048173		2.43	<0.5	5	28	136	<0.005		



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
 TORONTO ON M5J 2V5

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 Total # Pages: 3 (A)
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 Finalized Date: 21-OCT-2020
 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20210946

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048174		2.37	<0.5	<5	22	101	<0.005		
B0048175		2.27	<0.5	<5	30	97	<0.005		
B0048176		2.35	<0.5	<5	34	105	<0.005		
B0048177		2.43	<0.5	<5	32	94	<0.005		
B0048178		2.20	<0.5	<5	21	92	<0.005		
B0048179		2.21	<0.5	<5	42	103	<0.005		
B0048180		1.21	<0.5	<5	31	140	0.006		
B0048181		1.10	<0.5	<5	23	51	<0.005		
B0048182		2.28	<0.5	<5	24	67	<0.005		
B0048183		2.37	<0.5	<5	8	82	<0.005		
B0048184		2.33	<0.5	<5	12	86	0.091		
B0048185		0.07	1.6	19	42	88	1.085		
B0048186		2.46	<0.5	<5	11	59	<0.005		
B0048187		2.30	<0.5	<5	8	47	<0.005		
B0048188		1.70	<0.5	<5	45	67	<0.005		
B0048189		2.12	<0.5	<5	30	64	<0.005		
B0048190		1.04	<0.5	<5	43	88	<0.005		
B0048191		1.89	<0.5	<5	24	76	0.006		2.78
B0048192		1.43	<0.5	8	6	47	0.503		
B0048193		1.26	<0.5	<5	8	81	0.045		
B0048194		2.21	<0.5	<5	4	92	<0.005		
B0048195		2.33	<0.5	<5	6	70	0.065		
B0048196		1.26	<0.5	<5	48	84	0.526		
B0048197		1.77	<0.5	<5	25	84	<0.005		
B0048198		1.94	<0.5	<5	8	82	<0.005		
B0048199		0.71	<0.5	<5	10	26	<0.005		
B0048200		2.52	<0.5	<5	5	80	<0.005		
B0048201		2.33	<0.5	<5	5	81	<0.005		
B0048202		2.34	<0.5	<5	6	73	<0.005		
B0048203		2.30	<0.5	<5	6	95	<0.005		
B0048204		2.28	<0.5	<5	9	77	0.093		
B0048205		2.27	<0.5	<5	9	88	<0.005		
B0048206		2.30	<0.5	<5	5	83	<0.005		
B0048207		2.18	<0.5	<5	8	97	<0.005		2.76
B0048208		1.59	<0.5	<5	11	101	<0.005		
B0048209		1.05	<0.5	<5	5	83	0.261		
B0048210		2.15	<0.5	<5	9	72	0.015		
B0048211		2.41	<0.5	<5	16	76	0.044		



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CERTIFICATE TB20211298

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 22-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20211298

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048212		2.39	<0.5	<5	25	85	0.005		
B0048213		0.07	1.6	13	42	89	0.989		
B0048214		2.36	<0.5	<5	6	76	0.012		
B0048215		2.28	<0.5	<5	8	77	<0.005		
B0048216		1.78	<0.5	<5	9	86	0.094		
B0048217		1.13	<0.5	<5	12	92	0.056		
B0048218		1.61	<0.5	<5	8	64	<0.005		
B0048219		2.28	<0.5	<5	13	88	0.007		
B0048220		2.17	<0.5	<5	12	70	0.010		
B0048221		0.52	<0.5	<5	8	22	<0.005		
B0048222		2.24	0.7	<5	10	161	<0.005		
B0048223		2.23	<0.5	<5	5	76	<0.005		
B0048224		2.59	<0.5	<5	5	82	<0.005		
B0048225		2.34	<0.5	<5	3	71	<0.005		
B0048226		2.30	0.7	<5	165	98	0.045		
B0048227		2.34	<0.5	<5	9	85	<0.005		
B0048228		2.14	<0.5	<5	12	96	0.028		
B0048229		1.46	0.5	<5	66	151	0.082		
B0048230		1.07	<0.5	<5	22	90	0.096		
B0048231		1.67	0.5	<5	9	71	0.350		
B0048232		2.03	<0.5	<5	4	75	0.137		
B0048233		1.93	<0.5	<5	7	84	<0.005		
B0048234		2.21	<0.5	<5	6	86	0.073		
B0048235		0.07	0.6	5920	50	67	6.69	6.90	
B0048236		2.23	<0.5	9	6	82	0.023		
B0048237		2.21	<0.5	<5	5	83	<0.005		
B0048238		2.30	<0.5	<5	6	52	<0.005		
B0048239		2.41	<0.5	<5	26	77	<0.005		
B0048240		2.29	<0.5	<5	29	82	<0.005		
B0048241		2.44	<0.5	<5	9	57	<0.005		
B0048242		2.28	<0.5	<5	4	69	0.008		
B0048243		1.68	0.9	8	11	29	4.77	3.90	
B0048244		2.91	<0.5	<5	47	98	0.021		
B0048245		2.24	0.5	<5	43	112	0.005		
B0048246		2.26	<0.5	<5	41	101	0.005		
B0048247		2.29	<0.5	<5	33	91	0.016		
B0048248		0.11	<0.5	7	19	37	<0.005		
B0048249		1.37	<0.5	<5	29	70	2.24		
B0048250		1.86	<0.5	<5	45	110	0.007		
B0048251		1.84	<0.5	<5	39	109	0.006		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20211298

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048252		2.38	<0.5	<5	51	104	<0.005		
B0048253		2.45	<0.5	<5	58	110	<0.005		
B0048254		2.48	<0.5	<5	55	103	0.006		
B0048255		2.13	<0.5	<5	41	108	0.006		
B0048256		1.31	<0.5	<5	12	82	<0.005		
B0048257		1.34	<0.5	<5	17	123	<0.005		
B0048258		2.53	<0.5	<5	40	101	<0.005		
B0048259		2.59	<0.5	<5	43	80	<0.005		
B0048260		2.33	<0.5	<5	58	105	<0.005		
B0048261		0.07	1.4	19	42	87	1.135		
B0048262		2.50	<0.5	<5	35	96	<0.005		
B0048263		2.42	<0.5	<5	45	101	<0.005		
B0048264		2.26	<0.5	<5	53	111	<0.005		
B0048265		2.33	<0.5	<5	43	98	<0.005		
B0048266		2.36	<0.5	<5	45	83	<0.005		
B0048267		2.42	<0.5	<5	45	83	<0.005		
B0048268		2.35	<0.5	<5	65	95	<0.005		
B0048269		2.40	<0.5	<5	56	103	<0.005		
B0048270		2.29	<0.5	<5	37	90	0.005		
B0048271		2.31	<0.5	<5	35	113	<0.005		2.73
B0048272		2.41	<0.5	<5	48	101	0.012		
B0048273		2.54	<0.5	<5	44	116	<0.005		
B0048274		0.48	0.5	<5	10	24	0.006		
B0048275		2.48	<0.5	<5	44	117	<0.005		
B0048276		2.31	<0.5	<5	44	98	<0.005		
B0048277		2.34	<0.5	<5	67	117	<0.005		
B0048278		2.37	0.5	<5	38	98	<0.005		
B0048279		2.21	<0.5	<5	9	77	<0.005		
B0048280		1.23	<0.5	<5	22	78	0.099		
B0048281		1.15	<0.5	<5	20	68	0.016		
B0048282		1.30	<0.5	<5	31	129	<0.005		
B0048283		1.20	0.5	<5	17	66	<0.005		
B0048284		1.19	<0.5	<5	2	47	<0.005		
B0048285		1.06	<0.5	<5	8	66	<0.005		
B0048286		1.28	<0.5	<5	54	124	<0.005		
B0048287		1.54	<0.5	<5	39	65	<0.005		
B0048288		2.61	<0.5	<5	70	103	<0.005		
B0048289		2.54	<0.5	<5	26	85	<0.005		



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Finalized Date: 5-NOV-2020
Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20211298

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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 Total # Pages: 3 (A)
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 Finalized Date: 29-OCT-2020
 Account: KECIBQJN

CERTIFICATE TB20214463

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 24-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20214463

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048290		2.48	<0.5	<5	17	102	<0.005		
B0048291		2.39	<0.5	<5	3	89	<0.005		
B0048292		0.11	1.6	6290	55	70	6.03	6.58	
B0048293		2.30	<0.5	10	5	92	<0.005		
B0048294		2.43	<0.5	<5	8	93	<0.005		
B0048295		2.46	<0.5	5	5	68	<0.005		
B0048296		2.67	<0.5	6	58	149	<0.005		
B0048297		1.90	<0.5	<5	27	71	<0.005		
B0048298		1.83	<0.5	<5	22	62	<0.005		
B0048299		0.52	<0.5	5	9	23	<0.005		
B0048300		2.46	<0.5	<5	6	64	<0.005		
B0048301		2.47	<0.5	<5	6	69	<0.005		
B0048302		2.58	<0.5	<5	9	76	<0.005		
B0048303		2.46	<0.5	<5	12	83	<0.005		
B0048304		2.53	<0.5	<5	9	87	0.005		
B0048305		1.29	<0.5	5	45	167	<0.005		
B0048306		1.27	<0.5	<5	28	168	<0.005		
B0048307		2.44	<0.5	<5	5	87	<0.005	2.76	
B0048308		2.62	<0.5	<5	13	104	<0.005		
B0048309		3.19	0.5	<5	11	87	<0.005		
B0048310		1.96	<0.5	5	15	70	<0.005		
B0048311		2.55	<0.5	<5	24	85	<0.005		
B0048312		1.91	<0.5	5	14	81	<0.005		
B0048313		0.07	1.6	17	43	88	1.025		
B0048314		3.54	<0.5	<5	42	114	0.008		
B0048315		1.81	<0.5	6	90	120	<0.005		
B0048316		2.17	<0.5	5	67	149	<0.005		
B0048317		2.00	<0.5	<5	9	17	<0.005		
B0048318		2.04	<0.5	<5	6	16	<0.005		
B0048319		2.58	<0.5	<5	4	18	<0.005		
B0048320		2.38	<0.5	<5	23	18	<0.005		
B0048321		2.61	<0.5	<5	22	24	<0.005		
B0048322		2.67	<0.5	<5	4	33	<0.005		
B0048323		2.75	<0.5	<5	70	175	0.006		
B0048324		2.67	<0.5	<5	24	82	<0.005		
B0048325		2.45	<0.5	<5	3	25	<0.005		
B0048326		2.53	<0.5	<5	2	26	<0.005		
B0048327		0.11	<0.5	5	20	39	<0.005		
B0048328		2.45	<0.5	<5	15	35	<0.005		
B0048329		2.50	<0.5	<5	11	35	<0.005		



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20214463

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048330		3.21	<0.5	<5	9	37	<0.005		
B0048331		1.65	<0.5	<5	8	46	<0.005		
B0048332		0.89	<0.5	<5	4	30	<0.005		
B0048333		1.77	<0.5	<5	10	91	<0.005		
B0048334		2.49	<0.5	<5	51	47	<0.005		
B0048335		2.55	<0.5	<5	2	41	<0.005		
B0048336		2.48	<0.5	<5	6	34	<0.005		
B0048337		1.70	<0.5	<5	6	73	0.009		
B0048338		1.44	0.9	<5	26	2400	1.680		
B0048339		1.99	<0.5	<5	8	595	0.007		
B0048340		2.38	<0.5	<5	15	857	<0.005		
B0048341		0.07	0.7	6050	49	70	5.94	NSS	
B0048342		2.35	<0.5	13	15	243	<0.005		
B0048343		2.87	<0.5	<5	12	71	<0.005		
B0048344		2.16	<0.5	<5	13	76	0.018		
B0048345		2.45	<0.5	<5	10	107	0.007		
B0048346		2.55	<0.5	<5	7	71	0.011		
B0048347		1.72	<0.5	<5	2	51	<0.005		
B0048348		1.58	<0.5	<5	44	88	0.012		
B0048349		1.69	<0.5	<5	85	134	0.011		
B0048350		2.45	<0.5	<5	30	65	0.016		
B0048351		2.51	<0.5	<5	28	77	0.005		
B0048352		1.77	<0.5	<5	22	81	<0.005		
B0048353		2.04	<0.5	<5	9	111	<0.005		
B0048354		2.76	<0.5	<5	13	106	<0.005		
B0048355		0.51	<0.5	<5	7	21	<0.005		
B0048356		2.53	<0.5	<5	21	92	<0.005		
B0048357		2.61	<0.5	<5	43	68	<0.005		
B0048358		2.46	<0.5	<5	67	46	<0.005		
B0048359		2.60	<0.5	<5	7	33	<0.005		
B0048360		2.69	<0.5	<5	7	35	<0.005		
B0048361		2.35	<0.5	<5	<1	32	<0.005		
B0048362		2.64	<0.5	<5	7	73	<0.005		
B0048363		2.03	<0.5	<5	<1	36	<0.005		
B0048364		2.43	<0.5	<5	2	34	<0.005		
B0048365		2.74	<0.5	<5	4	43	<0.005		
B0048366		2.61	<0.5	5	5	75	<0.005		
B0048367		1.57	<0.5	<5	17	220	0.389		



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To: KG EXPLORATION (CANADA) INC.
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CERTIFICATE OF ANALYSIS TB20214463

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-AA24</td> <td>Au-GRA22</td> <td>ME-ICP61</td> <td>OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20217838

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 28-SEP-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20217838

Sample Description	Method	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	OA-GRA08b
	Analyte Units LOD	Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048368		1.43	<0.5	<5	6	153	0.085		
B0048369		0.07	1.4	18	43	94	1.095		
B0048370		1.56	2.1	<5	16	100	0.073		
B0048371		3.23	<0.5	<5	19	141	<0.005		
B0048372		2.25	<0.5	<5	8	35	0.089		
B0048373		2.26	<0.5	<5	4	31	<0.005		
B0048374		2.70	<0.5	<5	4	28	<0.005		
B0048375		2.25	<0.5	<5	5	22	0.023		
B0048376		2.47	<0.5	5	36	55	0.186		
B0048377		0.56	<0.5	5	10	28	<0.005		
B0048378		2.43	<0.5	<5	21	82	0.100		
B0048379		2.59	0.5	<5	36	80	0.029		
B0048380		2.44	0.5	<5	15	95	0.005		
B0048381		2.31	<0.5	<5	8	35	0.012		
B0048382		2.28	<0.5	5	5	19	0.016		
B0048383		2.37	<0.5	<5	8	15	0.141		
B0048384		2.14	<0.5	<5	3	16	0.037		
B0048385		1.09	<0.5	<5	3	14	0.027		
B0048386		1.26	2.6	15	19	500	0.486		
B0048387		2.51	<0.5	<5	23	53	0.009		
B0048388		2.40	<0.5	<5	20	50	<0.005		
B0048389		1.74	0.5	<5	28	83	<0.005		
B0048390		2.00	<0.5	<5	13	119	<0.005		
B0048391		0.11	1.2	6010	48	65	6.49	6.61	
B0048392		2.59	<0.5	24	12	120	<0.005		
B0048393		2.46	<0.5	<5	34	128	<0.005		
B0048394		2.48	<0.5	<5	24	96	<0.005		
B0048395		2.37	<0.5	<5	12	99	<0.005	2.74	
B0048396		2.47	<0.5	<5	10	245	<0.005		
B0048397		2.67	<0.5	<5	15	137	<0.005		
B0048398		2.19	<0.5	<5	17	137	<0.005		
B0048399		2.70	<0.5	<5	17	152	<0.005		
B0048400		2.55	<0.5	<5	12	136	<0.005		
B0048401		2.48	<0.5	<5	13	120	<0.005		
B0048402		2.53	<0.5	<5	15	128	<0.005		
B0048403		2.53	<0.5	<5	9	119	<0.005		
B0048404		2.27	<0.5	<5	7	56	<0.005		
B0048405		0.11	<0.5	<5	19	36	<0.005		
B0048406		2.43	<0.5	<5	8	53	0.014		
B0048407		2.25	<0.5	<5	6	51	<0.005		



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CERTIFICATE OF ANALYSIS TB20217838

Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
Sample Description	0.02	0.5	5	1	2	0.005	0.05	0.01
B0048408	2.87	<0.5	<5	8	45	<0.005		
B0048409	2.44	<0.5	<5	9	45	<0.005		
B0048410	2.49	<0.5	<5	4	21	<0.005		2.80
B0048411	2.61	<0.5	<5	4	32	<0.005		
B0048412	2.51	<0.5	<5	10	83	<0.005		
B0048413	2.52	<0.5	<5	9	37	<0.005		
B0048414	2.41	<0.5	<5	2	21	<0.005		
B0048415	2.54	<0.5	<5	6	19	<0.005		
B0048416	1.46	<0.5	<5	21	21	<0.005		
B0048417	2.17	<0.5	<5	8	49	<0.005		
B0048418	1.95	<0.5	<5	7	44	<0.005		
B0048419	0.07	2.0	19	42	88	1.045		
B0048420	1.94	<0.5	<5	6	79	<0.005		
B0048421	2.51	<0.5	<5	24	399	<0.005		
B0048422	2.62	<0.5	<5	7	98	<0.005		
B0048423	2.68	<0.5	<5	5	48	<0.005		
B0048424	2.51	<0.5	<5	11	80	<0.005		
B0048425	2.38	<0.5	<5	18	72	<0.005		
B0048426	2.24	<0.5	<5	13	86	<0.005		
B0048427	2.39	<0.5	<5	11	72	<0.005		
B0048428	2.45	<0.5	<5	16	116	<0.005		
B0048429	2.42	<0.5	<5	15	112	<0.005		
B0048430	2.36	<0.5	<5	14	112	<0.005		
B0048431	2.46	<0.5	<5	29	92	<0.005		
B0048432	2.45	<0.5	<5	58	147	<0.005		
B0048433	0.56	<0.5	<5	9	24	<0.005		
B0048434	2.47	<0.5	<5	38	96	<0.005		
B0048435	2.34	<0.5	<5	40	115	<0.005		
B0048436	1.79	<0.5	<5	30	110	<0.005		
B0048437	1.29	<0.5	<5	27	122	<0.005		
B0048438	1.50	<0.5	<5	29	124	<0.005		
B0048439	1.93	<0.5	<5	10	70	<0.005		
B0048440	2.49	<0.5	<5	29	88	<0.005		
B0048441	1.19	<0.5	5	43	97	<0.005		
B0048442	1.09	<0.5	<5	24	100	<0.005		
B0048443	2.29	0.5	<5	24	69	<0.005		
B0048444	2.34	<0.5	<5	14	63	<0.005		
B0048445	2.29	<0.5	<5	10	96	<0.005		



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CERTIFICATE OF ANALYSIS TB20217838

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20221308

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 1-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20221308

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048446		2.05	<0.5	<5	9	39	<0.005		
B0048447		0.07	1.7	17	42	92	1.100		
B0048448		2.08	0.7	<5	19	60	<0.005		
B0048449		1.99	<0.5	<5	19	67	<0.005		
B0048450		2.01	<0.5	<5	7	43	<0.005		
B0048451		2.02	<0.5	<5	8	51	<0.005		
B0048452		2.09	<0.5	<5	7	63	<0.005		
B0048453		2.14	0.5	<5	7	120	<0.005		
B0048454		2.10	<0.5	<5	12	90	<0.005		
B0048455		0.48	<0.5	<5	8	26	<0.005		
B0048456		2.11	0.5	<5	19	93	<0.005		
B0048457		2.25	<0.5	<5	8	60	<0.005		
B0048458		2.21	<0.5	<5	33	145	<0.005		
B0048459		2.20	<0.5	<5	11	67	<0.005		
B0048460		2.16	0.6	<5	8	71	<0.005		
B0048461		2.26	<0.5	<5	6	97	<0.005		
B0048462		2.10	0.6	<5	11	97	<0.005		
B0048463		2.14	0.6	<5	15	130	<0.005		
B0048464		1.65	0.5	<5	44	108	0.005		
B0048465		2.79	0.5	<5	41	102	0.006		
B0048466		2.38	<0.5	<5	23	69	0.035		
B0048467		1.98	<0.5	<5	23	65	0.006		
B0048468		1.99	<0.5	<5	39	104	<0.005		
B0048469		0.07	0.8	5550	51	70	6.38	6.15	
B0048470		2.25	<0.5	<5	62	114	<0.005		
B0048471		1.94	<0.5	<5	59	91	<0.005		
B0048472		1.57	<0.5	<5	92	106	0.005		
B0048473		1.43	<0.5	<5	39	116	<0.005		
B0048474		1.29	<0.5	<5	10	17	0.016		
B0048475		1.57	<0.5	<5	4	16	0.011		
B0048476		1.42	<0.5	<5	1	14	<0.005		
B0048477		1.43	<0.5	<5	4	18	<0.005		
B0048478		2.02	<0.5	<5	5	16	0.005		
B0048479		1.15	0.5	<5	3	18	0.255		
B0048480		1.05	0.5	<5	35	101	0.007		
B0048481		2.26	<0.5	<5	66	110	0.006		
B0048482		0.11	<0.5	6	19	38	<0.005		
B0048483		2.19	0.5	<5	117	105	0.006		
B0048484		3.05	0.5	<5	51	111	<0.005		
B0048485		1.53	<0.5	<5	11	23	<0.005		



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CERTIFICATE OF ANALYSIS TB20221308

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048486		2.05	<0.5	<5	15	28	<0.005		
B0048487		1.44	<0.5	<5	16	26	<0.005		
B0048488		2.34	<0.5	<5	85	105	0.012		
B0048489		1.89	<0.5	<5	67	102	0.007		
B0048490		1.16	<0.5	<5	58	105	<0.005		
B0048491		2.39	<0.5	<5	67	110	0.005		
B0048492		2.10	0.5	<5	89	118	0.007		
B0048493		2.47	<0.5	<5	117	92	0.012		
B0048494		1.53	<0.5	<5	31	131	<0.005		2.80
B0048495		0.07	2.2	19	43	91	1.045		
B0048496		1.84	<0.5	<5	34	106	<0.005		
B0048497		1.25	<0.5	<5	39	134	<0.005		
B0048498		2.21	0.7	<5	69	148	<0.005		
B0048499		2.19	<0.5	<5	46	123	<0.005		
B0048500		2.20	<0.5	<5	47	98	<0.005		
B0048501		1.11	0.5	<5	80	101	0.007		
B0048502		1.07	0.6	<5	7	78	<0.005		
B0048503		2.37	0.5	<5	37	91	<0.005		
B0048504		2.38	<0.5	<5	14	53	<0.005		
B0048505		2.33	<0.5	<5	13	66	<0.005		
B0048506		2.32	<0.5	<5	13	84	<0.005		
B0048507		1.34	0.5	<5	37	168	<0.005		
B0048508		0.54	<0.5	<5	8	24	<0.005		
B0048509		1.44	<0.5	<5	22	76	<0.005		
B0048510		1.56	<0.5	<5	15	63	<0.005		
B0048511		2.29	0.6	<5	20	45	<0.005		
B0048512		2.17	<0.5	<5	19	56	<0.005		
B0048513		2.10	<0.5	<5	20	91	<0.005		
B0048514		2.12	<0.5	<5	15	42	<0.005		
B0048515		2.18	<0.5	<5	10	31	<0.005		
B0048516		2.21	0.5	<5	8	25	<0.005		
B0048517		1.66	<0.5	<5	9	18	<0.005		
B0048518		2.91	0.6	<5	14	65	<0.005		
B0048519		2.30	0.5	<5	33	153	<0.005		
B0048520		2.32	0.6	<5	21	133	0.008		
B0048521		2.40	<0.5	<5	38	122	<0.005		
B0048522		2.28	<0.5	<5	39	118	<0.005		
B0048523		3.21	0.5	<5	54	125	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20221308

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB2022246

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 2-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20222246

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048524		1.51	0.5	<5	86	187	<0.005		
B0048525		2.45	0.5	<5	34	179	<0.005		
B0048526		0.11	0.8	6140	51	71	6.63	7.32	
B0048527		2.38	<0.5	<5	33	196	<0.005		
B0048528		2.38	<0.5	<5	34	188	<0.005		
B0048529		2.46	0.5	<5	44	179	0.005		
B0048530		2.23	<0.5	<5	30	126	<0.005		
B0048531		2.30	<0.5	<5	47	96	<0.005		
B0048532		3.80	<0.5	<5	73	86	0.005		
B0048533		0.55	<0.5	<5	9	25	<0.005		
B0048534		3.36	<0.5	<5	60	114	0.005		
B0048535		2.69	<0.5	<5	65	103	0.005		
B0048536		1.97	<0.5	<5	46	77	0.005		
B0048537		2.44	<0.5	<5	18	50	<0.005		
B0048538		2.78	<0.5	<5	29	130	0.006		
B0048539		1.86	<0.5	<5	58	102	<0.005		
B0048540		2.41	<0.5	<5	59	145	<0.005		
B0048541		2.33	<0.5	<5	61	100	0.006	2.67	
B0048542		2.47	<0.5	<5	30	133	<0.005		
B0048543		2.29	<0.5	<5	79	134	0.005		
B0048544		2.25	<0.5	<5	55	161	<0.005		
B0048545		2.62	0.5	<5	53	166	<0.005		
B0048546		2.60	<0.5	<5	48	175	<0.005		
B0048547		0.07	1.9	17	42	91	0.995		
B0048548		2.54	<0.5	<5	45	198	<0.005		
B0048549		2.57	<0.5	<5	43	190	<0.005		
B0048550		2.53	<0.5	<5	44	195	<0.005		
B0048551		2.40	<0.5	<5	43	180	<0.005		
B0048552		2.42	<0.5	<5	42	196	<0.005		
B0048553		1.21	<0.5	<5	56	106	<0.005		
B0048554		1.31	<0.5	<5	75	109	<0.005		
B0048555		1.14	<0.5	<5	43	101	<0.005		
B0048556		1.44	<0.5	<5	44	87	<0.005		
B0048557		2.37	<0.5	<5	49	107	<0.005		
B0048558		2.06	<0.5	<5	34	96	<0.005		
B0048559		2.37	<0.5	<5	32	100	<0.005		
B0048560		2.56	<0.5	<5	41	110	<0.005		
B0048561		0.11	<0.5	6	18	39	<0.005		
B0048562		2.10	<0.5	5	47	94	<0.005		
B0048563		2.50	<0.5	<5	38	93	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20222246

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
B0048564		2.39	<0.5	<5	39	87	<0.005		
B0048565		2.72	<0.5	<5	44	99	<0.005		
B0048566		2.48	<0.5	<5	21	82	<0.005		
B0048567		2.36	<0.5	<5	30	111	<0.005		
B0048568		2.21	<0.5	<5	21	139	<0.005		
B0048569		2.40	<0.5	<5	37	81	<0.005		
B0048570		2.41	<0.5	<5	14	73	<0.005		
B0048571		2.40	<0.5	<5	32	106	<0.005		
B0048572		1.37	<0.5	<5	19	96	<0.005		
B0048573		2.53	<0.5	<5	47	108	<0.005		
B0048574		1.16	<0.5	<5	17	82	<0.005		
B0048575		0.11	0.7	6300	51	73	6.61	6.99	
B0048576		1.69	<0.5	8	6	101	<0.005		
B0048577		1.81	<0.5	<5	51	104	<0.005		
B0048578		2.54	<0.5	<5	40	117	<0.005		
B0048579		2.74	<0.5	<5	42	104	<0.005		
B0048580		2.25	<0.5	<5	50	107	<0.005		
B0048581		2.53	<0.5	<5	45	103	<0.005		
B0048582		2.49	<0.5	<5	49	106	<0.005		
B0048583		2.41	<0.5	<5	26	111	<0.005		
B0048584		1.33	<0.5	<5	59	101	<0.005		
B0048585		1.32	<0.5	<5	43	109	<0.005		
B0048586		2.27	<0.5	<5	43	105	<0.005		
B0048587		2.36	<0.5	<5	42	97	<0.005		
B0048588		2.65	<0.5	<5	45	102	<0.005		
B0048589		0.48	<0.5	7	12	28	<0.005		
B0048590		2.40	<0.5	<5	44	107	<0.005		
B0048591		2.67	<0.5	<5	51	112	<0.005		
B0048592		2.65	<0.5	<5	35	119	<0.005		
B0048593		2.46	<0.5	<5	42	102	<0.005		
B0048594		2.73	<0.5	<5	53	100	<0.005		
B0048595		2.31	<0.5	<5	43	111	<0.005		
B0048596		2.55	<0.5	<5	32	108	<0.005		
B0048597		2.44	<0.5	<5	15	111	<0.005		
B0048598		2.30	<0.5	<5	29	118	<0.005		
B0048599		2.57	<0.5	<5	41	107	<0.005		
B0048600		2.49	<0.5	<5	39	98	<0.005		
B0048601		2.36	<0.5	<5	44	97	<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20222246

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
			OA-GRA08b



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CERTIFICATE TB20228203

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 8-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20228203

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048602		2.40	<0.5	<5	47	96	<0.005		
B0048603		0.06	0.9	12	41	84	1.145		
B0048604		2.75	<0.5	<5	44	103	<0.005		
B0048605		2.94	<0.5	<5	51	102	<0.005		
B0048606		2.47	<0.5	<5	51	99	<0.005		
B0048607		2.65	<0.5	<5	53	109	<0.005		
B0048608		2.54	<0.5	<5	46	104	0.009		
B0048609		2.31	<0.5	5	47	107	<0.005		
B0048610		2.76	<0.5	<5	61	105	<0.005		
B0048611		0.44	<0.5	<5	10	22	<0.005		
B0048612		2.51	<0.5	<5	48	87	<0.005		
B0048613		2.51	<0.5	<5	17	91	<0.005		
B0048614		2.60	<0.5	<5	169	95	<0.005		
B0048615		2.41	<0.5	<5	54	104	<0.005		
B0048616		2.71	<0.5	<5	44	102	<0.005		
B0048617		2.68	<0.5	<5	47	103	<0.005		
B0048618		2.82	<0.5	<5	50	101	<0.005		
B0048619		2.74	<0.5	<5	48	103	<0.005		
B0048620		2.74	<0.5	<5	46	98	<0.005		
B0048621		2.60	<0.5	<5	58	97	<0.005		
B0048622		2.44	<0.5	<5	41	105	<0.005		
B0048623		2.43	<0.5	<5	51	97	<0.005		
B0048624		2.53	<0.5	<5	58	102	<0.005		
B0048625		0.06	0.5	5930	50	65	6.78	6.07	
B0048626		2.44	<0.5	12	54	105	<0.005		
B0048627		2.82	<0.5	<5	42	106	<0.005		
B0048628		2.44	<0.5	<5	16	92	<0.005		
B0048629		2.60	<0.5	<5	22	90	<0.005		
B0048630		2.50	<0.5	<5	44	99	<0.005		
B0048631		2.63	<0.5	<5	45	91	<0.005		
B0048632		2.57	<0.5	<5	48	83	<0.005		
B0048633		2.42	<0.5	<5	39	93	<0.005		
B0048634		2.38	<0.5	<5	44	94	0.005		
B0048635		1.27	<0.5	<5	66	122	<0.005		
B0048636		1.50	0.5	<5	35	464	<0.005		
B0048637		2.23	<0.5	<5	64	86	0.006		
B0048638		2.21	<0.5	<5	64	95	0.005		
B0048639		0.10	<0.5	<5	20	39	<0.005		
B0048640		2.63	<0.5	<5	76	89	0.008		
B0048641		2.61	<0.5	<5	71	99	0.007	2.86	



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CERTIFICATE OF ANALYSIS TB20228203

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0048642		2.34	<0.5	<5	79	97	0.012		
B0048643		2.21	<0.5	<5	28	107	0.008		
B0048644		1.26	<0.5	<5	38	130	0.011		
B0048645		1.22	<0.5	<5	70	149	0.018		
B0048646		1.24	<0.5	<5	83	112	0.020		
B0048647		1.19	<0.5	<5	76	120	0.013		
B0048648		1.22	<0.5	<5	79	103	0.024		
B0048649		1.32	<0.5	<5	51	93	0.040		
B0048650		1.66	<0.5	<5	44	111	0.009		
B0048651		1.88	<0.5	<5	68	66	0.415		
B0048652		1.30	<0.5	<5	54	109	0.007		
B0048653		0.06	1.1	15	40	85	1.060		
B0048654		2.35	<0.5	<5	41	98	0.059		
B0048655		2.74	<0.5	<5	9	54	0.007		
B0048656		2.23	<0.5	<5	15	59	<0.005		
B0048657		2.50	<0.5	<5	9	87	<0.005		
B0048658		2.50	<0.5	<5	6	91	<0.005		
B0048659		2.31	<0.5	<5	6	88	<0.005		
B0048660		2.42	<0.5	<5	5	88	<0.005		
B0048661		2.44	<0.5	<5	12	91	<0.005		
B0048662		2.49	<0.5	<5	16	84	<0.005		
B0048663		2.42	<0.5	<5	5	84	<0.005		
B0048664		2.40	<0.5	<5	17	88	<0.005		
B0048665		2.42	<0.5	<5	20	95	<0.005		
B0048666		2.52	<0.5	<5	34	98	<0.005		
B0048667		0.55	<0.5	<5	12	39	<0.005		
B0048668		2.42	<0.5	<5	24	82	<0.005		
B0048669		2.49	<0.5	<5	9	81	<0.005		
B0048670		2.35	<0.5	<5	41	97	<0.005		
B0048671		2.44	<0.5	<5	39	108	<0.005		
B0048672		2.34	<0.5	<5	61	81	<0.005		
B0048673		2.43	<0.5	<5	52	97	<0.005		
B0048674		2.27	<0.5	<5	53	105	<0.005		
B0048675		2.31	<0.5	<5	45	107	<0.005		
B0048676		2.48	<0.5	<5	46	103	<0.005		
B0048677		2.60	<0.5	<5	51	105	<0.005		
B0048678		2.22	<0.5	<5	39	104	0.332		
B0048679		2.95	<0.5	<5	41	104	0.009		



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CERTIFICATE TB20234886

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 15-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
 TORONTO ON M5J 2V5

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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20234886

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048758		2.39	<0.5	<5	70	145	<0.005		
B0048759		2.38	<0.5	<5	72	162	0.005		
B0048760		0.11	0.8	6280	52	72	6.26	6.78	
B0048761		2.41	<0.5	6	38	198	<0.005		
B0048762		2.44	<0.5	<5	32	135	<0.005		
B0048763		2.59	<0.5	<5	12	133	<0.005		
B0048764		2.50	<0.5	<5	40	87	<0.005		
B0048765		2.49	<0.5	<5	85	123	<0.005		
B0048766		2.39	<0.5	<5	78	93	<0.005		
B0048767		0.54	<0.5	<5	12	41	<0.005		
B0048768		2.43	<0.5	<5	35	74	<0.005		
B0048769		2.42	<0.5	<5	55	95	<0.005		
B0048770		2.28	<0.5	<5	55	96	<0.005		
B0048771		2.37	<0.5	<5	48	108	<0.005		
B0048772		2.39	<0.5	<5	55	102	<0.005		
B0048773		2.44	<0.5	<5	53	105	<0.005		
B0048774		2.41	<0.5	<5	129	150	<0.005		
B0048775		2.42	<0.5	<5	46	160	<0.005		
B0048776		2.38	<0.5	<5	61	148	<0.005		
B0048777		2.27	<0.5	<5	16	64	<0.005		
B0048778		2.37	<0.5	<5	70	178	<0.005		
B0048779		2.44	<0.5	<5	7	97	<0.005	2.77	
B0048780		2.35	<0.5	<5	33	114	0.031		
B0048781		0.07	1.7	15	41	90	1.045		
B0048782		2.47	<0.5	<5	74	100	0.008		
B0048783		2.50	<0.5	<5	82	103	0.010		
B0048784		2.24	0.5	<5	69	111	<0.005		
B0048785		2.17	<0.5	<5	73	92	<0.005		
B0048786		2.25	<0.5	<5	98	99	<0.005		
B0048787		2.40	<0.5	<5	89	103	<0.005		
B0048788		2.45	<0.5	<5	106	103	<0.005		
B0048789		2.48	<0.5	<5	100	96	<0.005		
B0048790		2.35	<0.5	<5	84	103	<0.005		
B0048791		2.31	<0.5	<5	44	73	<0.005		
B0048792		2.47	<0.5	<5	56	95	<0.005		
B0048793		1.23	<0.5	<5	42	88	<0.005		
B0048794		1.24	<0.5	<5	70	74	<0.005		
B0048795		0.11	<0.5	<5	18	36	<0.005		
B0048796		1.10	<0.5	<5	11	73	<0.005		
B0048797		1.07	<0.5	<5	46	71	<0.005		



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
 TORONTO ON M5J 2V5

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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20234886

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
	LOD	0.02	0.5	5	1	2	0.005	0.05	0.01
B0048798		2.42	<0.5	<5	29	87	<0.005		
B0048799		2.48	<0.5	<5	28	101	<0.005		
B0048800		2.38	<0.5	<5	30	101	<0.005		
B0048801		2.31	<0.5	<5	36	112	<0.005		
B0048802		2.34	<0.5	<5	32	100	<0.005		
B0048803		1.79	<0.5	<5	65	493	<0.005		
B0048804		1.79	<0.5	<5	30	95	<0.005		
B0048805		1.42	<0.5	<5	23	105	<0.005		
B0048806		2.24	<0.5	<5	38	92	<0.005		
B0048807		2.40	<0.5	<5	45	98	<0.005		
B0048808		2.48	<0.5	<5	29	80	<0.005		
B0048809		0.11	1.6	5980	48	68	6.43	7.02	
B0048810		2.34	<0.5	<5	27	69	<0.005		
B0048811		2.53	<0.5	<5	26	114	<0.005		2.89
B0048812		2.33	<0.5	<5	26	113	<0.005		
B0048813		2.41	<0.5	<5	28	107	<0.005		
B0048814		2.37	<0.5	<5	29	94	<0.005		
B0048815		2.42	<0.5	<5	31	98	<0.005		
B0048816		2.32	<0.5	<5	30	98	<0.005		
B0048817		2.48	<0.5	<5	32	93	<0.005		
B0048818		2.54	<0.5	<5	32	91	<0.005		
B0048819		2.50	<0.5	<5	23	85	<0.005		
B0048820		2.42	<0.5	<5	31	79	<0.005		
B0048821		2.47	<0.5	<5	37	115	<0.005		
B0048822		2.53	<0.5	<5	35	93	<0.005		
B0048823		0.59	<0.5	<5	9	42	<0.005		
B0048824		2.44	<0.5	<5	34	79	<0.005		
B0048825		2.23	<0.5	<5	22	78	<0.005		
B0048826		2.26	<0.5	<5	24	85	<0.005		
B0048827		2.41	<0.5	<5	28	86	<0.005		
B0048828		2.37	<0.5	<5	45	94	<0.005		
B0048829		2.53	<0.5	<5	35	91	<0.005		
B0048830		2.41	<0.5	<5	31	85	<0.005		
B0048831		2.40	<0.5	<5	28	81	<0.005		
B0048832		2.53	<0.5	<5	68	88	0.005		
B0048833		2.56	<0.5	<5	58	86	<0.005		
B0048834		2.48	<0.5	<5	63	84	0.006		
B0048835		2.36	<0.5	<5	78	83	<0.005		



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TORONTO ON M5J 2V5

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 Account: KECIBQJN

CERTIFICATE TB20236155

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 16-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20236155

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm	Au Check ppm	S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.05	0.01
B0048680		2.31	<0.5	<5	57	108	<0.005			
B0048681		0.07	1.1	14	40	81	1.135			
B0048682		1.56	<0.5	<5	17	60	<0.005			
B0048683		2.09	<0.5	<5	9	128	<0.005			
B0048684		2.57	<0.5	<5	58	121	0.005			
B0048685		2.20	<0.5	<5	51	123	0.019			
B0048686		2.49	<0.5	<5	45	97	0.005			
B0048687		2.55	<0.5	<5	44	97	0.007			
B0048688		2.79	<0.5	<5	50	95	0.007			
B0048689		0.56	<0.5	<5	17	47	<0.005			
B0048690		2.69	<0.5	<5	47	109	<0.005			
B0048691		2.22	<0.5	<5	46	105	<0.005			
B0048692		2.56	<0.5	<5	48	108	0.007			
B0048693		1.90	<0.5	<5	45	106	0.007			
B0048694		1.54	0.5	<5	47	103	0.010			
B0048695		1.38	0.5	<5	112	247	0.041			
B0048696		1.81	0.9	<5	360	315	0.327			
B0048697		1.38	0.6	7	71	58	1.295			2.71
B0048698		2.34	<0.5	8	61	101	0.088			
B0048699		2.17	<0.5	<5	57	111	0.010			
B0048700		2.48	<0.5	<5	54	116	0.007			
B0048701		2.43	<0.5	<5	48	116	<0.005			
B0048702		2.54	<0.5	<5	52	136	<0.005			
B0048703		0.07	0.8	6120	53	73	6.93	8.11	NSS	
B0048704		2.89	<0.5	8	36	121	<0.005			
B0048705		2.57	0.5	<5	58	120	<0.005			
B0048706		2.65	<0.5	<5	31	126	<0.005			
B0048707		2.64	<0.5	<5	42	131	<0.005			
B0048708		2.39	<0.5	<5	54	110	<0.005			
B0048709		2.44	0.5	<5	52	108	0.005			
B0048710		2.46	<0.5	<5	45	137	<0.005			
B0048711		2.36	<0.5	<5	27	193	<0.005			
B0048712		2.37	<0.5	<5	30	191	0.005			
B0048713		2.36	<0.5	<5	43	156	<0.005			
B0048714		2.41	<0.5	<5	38	155	<0.005			
B0048715		2.55	<0.5	<5	50	174	<0.005			
B0048716		0.11	<0.5	<5	20	40	<0.005			
B0048717		2.47	<0.5	<5	35	180	<0.005			
B0048718		2.42	<0.5	<5	12	162	<0.005			2.73
B0048719		2.55	<0.5	<5	18	110	<0.005			



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20236155

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	Au-GRA22 Au Check ppm	OA-GRA08b S.G. Unity
B0048720		2.50	<0.5	<5	7	136	<0.005			
B0048721		2.44	<0.5	<5	38	141	<0.005			
B0048722		2.41	<0.5	<5	56	186	<0.005			
B0048723		2.55	<0.5	<5	31	238	<0.005			
B0048724		2.42	<0.5	<5	18	180	<0.005			
B0048725		2.37	<0.5	<5	16	119	<0.005			
B0048726		2.60	<0.5	<5	27	111	<0.005			
B0048727		2.45	<0.5	<5	22	118	<0.005			
B0048728		2.43	<0.5	<5	20	145	<0.005			
B0048729		0.07	1.3	16	40	87	1.175			
B0048730		2.48	<0.5	<5	13	237	<0.005			
B0048731		2.60	<0.5	6	23	329	<0.005			
B0048732		2.59	<0.5	<5	20	196	<0.005			
B0048733		2.54	<0.5	<5	43	140	<0.005			
B0048734		2.81	1.0	<5	412	166	0.018			
B0048735		2.54	<0.5	<5	40	97	<0.005			
B0048736		2.61	<0.5	<5	51	100	<0.005			
B0048737		2.34	<0.5	<5	49	90	<0.005			
B0048738		2.65	<0.5	<5	55	92	<0.005			
B0048739		2.60	<0.5	<5	13	91	<0.005			
B0048740		2.59	<0.5	<5	22	63	<0.005			
B0048741		2.55	<0.5	<5	35	135	<0.005			
B0048742		0.50	<0.5	<5	12	39	<0.005			
B0048743		2.53	<0.5	<5	42	69	<0.005			
B0048744		2.40	<0.5	<5	37	84	<0.005			
B0048745		2.35	<0.5	<5	35	126	<0.005			
B0048746		2.80	<0.5	<5	44	157	<0.005			
B0048747		2.49	<0.5	<5	29	161	<0.005			2.71
B0048748		2.51	<0.5	<5	35	292	<0.005			
B0048749		2.56	<0.5	<5	41	174	<0.005			
B0048750		2.41	<0.5	<5	92	108	<0.005			
B0048751		2.44	<0.5	<5	19	89	<0.005			
B0048752		2.44	<0.5	<5	23	111	<0.005			
B0048753		2.30	<0.5	<5	57	77	<0.005			
B0048754		2.46	<0.5	<5	38	76	<0.005			
B0048755		2.42	<0.5	<5	20	76	<0.005			
B0048756		2.69	<0.5	<5	38	108	<0.005			
B0048757		2.70	<0.5	<5	78	144	<0.005			



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20236155

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 17%;">OA-GRA08b</td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b				
Au-AA24	Au-GRA22	ME-ICP61	OA-GRA08b						



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CERTIFICATE TB20240833

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20240833

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0049070		1.26	<0.5	5	29	99		<0.005		
B0049071		0.11	1.9	20	42	85		1.030		
B0049072		1.86	<0.5	10	30	73		1.485		
B0049073		2.64	<0.5	<5	19	56		0.007		2.78
B0049074		2.38	<0.5	6	59	103		<0.005		2.77
B0049075		2.51	<0.5	<5	50	100		<0.005		
B0049076		1.18	<0.5	6	52	77		<0.005		
B0049077		1.56	<0.5	6	62	111		<0.005		
B0049078		1.74	<0.5	9	59	92		0.005		
B0049079		0.55	<0.5	<5	21	48		<0.005		
B0049080		2.32	<0.5	<5	62	138		<0.005		
B0049081		1.04	<0.5	5	37	73		0.010		
B0049082		1.92	1.1	10	14	40		2.31		
B0049083		2.34	<0.5	7	12	41		0.209		
B0049084		2.44	<0.5	5	5	56		0.059		
B0049085		2.39	0.7	11	7	60		5.58	5.57	
B0049086		2.78	<0.5	<5	11	77		0.043		2.69
B0049087		2.73	<0.5	<5	26	47		0.026		
B0049088		2.39	<0.5	6	19	38		0.884		
B0049089		2.48	<0.5	<5	7	57		0.019		
B0049090		2.54	<0.5	5	31	115		0.011		
B0049091		2.55	0.6	19	160	90		2.34		
B0049092		2.47	<0.5	11	32	93		0.270		
B0049093		0.11	0.8	6030	49	69		7.06	NSS	
B0049094		2.52	<0.5	12	109	93		0.181		
B0049095		2.42	<0.5	6	13	87		0.416		
B0049096		2.19	<0.5	5	10	62		0.627		
B0049097		2.53	<0.5	5	42	115		0.542		
B0049098		2.33	<0.5	5	41	93		0.299		
B0049099		2.57	<0.5	<5	47	112		0.007		
B0049100		2.50	<0.5	5	24	78		1.345		
B0049101		2.54	<0.5	<5	10	71		0.208		
B0049102		1.32	<0.5	5	67	219		<0.005		
B0049103		2.51	<0.5	<5	64	151		<0.005		
B0049104		2.35	<0.5	<5	44	90		<0.005		2.78
B0049105		2.58	<0.5	<5	57	108		<0.005		
B0049106		2.32	<0.5	<5	87	129		0.005		
B0049107		0.11	<0.5	<5	19	39		<0.005		
B0049108		2.14	<0.5	5	42	109		0.015		
B0049109		1.84	<0.5	<5	24	61		<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240833

Sample Description	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
	Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
	0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0049110	1.31	<0.5	<5	7	73		<0.005		
B0049111	1.86	<0.5	<5	10	77		<0.005		
B0049112	1.74	<0.5	<5	14	90		<0.005		
B0049113	1.18	<0.5	<5	6	50		0.050		
B0049114	1.80	<0.5	<5	18	59		0.219		
B0049115	2.60	<0.5	<5	8	47		0.100		
B0049116	2.33	<0.5	<5	17	53		0.048		
B0049117	1.26	<0.5	<5	30	101		<0.005		
B0049118	1.09	<0.5	<5	53	63		0.407		
B0049119	2.52	<0.5	<5	37	104		0.164		
B0049120	2.07	<0.5	5	13	86		0.816		
B0049121	0.11	1.8	16	40	90		1.060		
B0049122	3.07	<0.5	<5	19	78		0.406		
B0049123	2.51	<0.5	<5	9	84		0.011		
B0049124	2.26	<0.5	<5	11	89		0.018		
B0049125	2.74	<0.5	<5	41	113		0.378		
B0049126	2.32	<0.5	<5	38	88		0.105		
B0049127	2.21	<0.5	<5	25	100		0.057		
B0049128	2.47	<0.5	6	64	115		1.210		
B0049129	2.48	<0.5	<5	23	78		0.011		
B0049130	2.25	<0.5	<5	19	69		0.345		
B0049131	2.60	<0.5	<5	10	95		0.028		
B0049132	2.48	<0.5	7	90	94		2.28		
B0049133	1.86	<0.5	5	87	88		0.337		
B0049134	1.19	<0.5	<5	34	109		0.007		2.72
B0049135	0.59	<0.5	<5	20	60		<0.005		
B0049136	2.40	<0.5	<5	50	113		0.013		
B0049137	1.27	<0.5	<5	55	118		0.020		
B0049138	2.35	<0.5	7	38	135		1.310		
B0049139	1.08	<0.5	<5	32	141		0.044		
B0049140	2.31	<0.5	<5	28	148		0.046		
B0049141	2.51	<0.5	5	39	210		0.317		
B0049142	2.45	<0.5	6	29	163		0.159		
B0049143	2.59	<0.5	<5	8	158		0.009		
B0049144	2.59	1.7	120	219	>10000	1.110	0.378		
B0049145	2.48	<0.5	21	40	629		0.015		2.72
B0049146	2.42	<0.5	19	27	1275		0.009		
B0049147	2.73	<0.5	<5	8	170		<0.005		



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240833

CERTIFICATE COMMENTS									
	ANALYTICAL COMMENTS								
Applies to Method:	NSS is non-sufficient sample. ALL METHODS								
	LABORATORY ADDRESSES								
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-21	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-21	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-AA24</td> <td style="width: 33%;">Au-GRA22</td> <td style="width: 33%;">ME-ICP61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>OA-GRA08b</td> <td>Zn-OG62</td> <td></td> <td></td> </tr> </table>	Au-AA24	Au-GRA22	ME-ICP61	ME-OG62	OA-GRA08b	Zn-OG62		
Au-AA24	Au-GRA22	ME-ICP61	ME-OG62						
OA-GRA08b	Zn-OG62								



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CERTIFICATE TB20240834

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20240834

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0048836		2.44	<0.5	<5	38	102	<0.005	
B0048837		0.07	1.3	15	42	89	1.110	
B0048838		2.39	<0.5	<5	53	96	0.005	
B0048839		2.32	<0.5	<5	43	94	<0.005	
B0048840		2.32	<0.5	<5	42	91	<0.005	
B0048841		2.49	<0.5	5	43	103	<0.005	
B0048842		2.33	<0.5	<5	42	103	<0.005	
B0048843		2.39	<0.5	<5	36	121	<0.005	
B0048844		2.45	<0.5	7	49	115	<0.005	
B0048845		0.66	<0.5	6	15	44	<0.005	
B0048846		2.27	<0.5	<5	49	112	<0.005	
B0048847		2.29	<0.5	<5	36	95	<0.005	
B0048848		2.42	<0.5	<5	60	93	<0.005	
B0048849		2.35	<0.5	<5	83	98	<0.005	
B0048850		2.21	<0.5	<5	84	138	<0.005	
B0048851		2.34	<0.5	<5	34	87	<0.005	
B0048852		2.33	<0.5	<5	53	113	<0.005	
B0048853		2.33	<0.5	6	56	112	<0.005	
B0048854		2.26	<0.5	<5	32	112	<0.005	
B0048855		2.35	<0.5	5	67	131	<0.005	
B0048856		2.16	<0.5	<5	18	21	<0.005	
B0048857		0.11	0.9	6430	53	71	6.95	6.47
B0048858		2.86	<0.5	13	44	39	<0.005	
B0048859		2.64	0.6	5	38	95	<0.005	
B0048860		2.30	<0.5	5	47	96	<0.005	
B0048861		2.00	<0.5	<5	35	102	<0.005	
B0048862		2.40	<0.5	<5	43	103	<0.005	
B0048863		2.21	<0.5	<5	59	99	<0.005	
B0048864		1.23	<0.5	<5	4	123	<0.005	
B0048865		1.31	<0.5	<5	2	112	<0.005	
B0048866		2.32	<0.5	<5	40	67	<0.005	
B0048867		2.32	<0.5	<5	54	91	<0.005	
B0048868		2.58	<0.5	<5	40	113	<0.005	
B0048869		1.73	<0.5	<5	66	117	<0.005	
B0048870		1.74	<0.5	<5	35	107	<0.005	
B0048871		1.65	<0.5	<5	57	109	<0.005	
B0048872		1.94	<0.5	<5	46	106	<0.005	
B0048873		0.11	<0.5	6	19	38	<0.005	
B0048874		2.42	<0.5	<5	46	106	<0.005	
B0048875		2.62	<0.5	<5	47	103	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240834

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0048876		2.44	<0.5	6	50	103	<0.005	
B0048877		2.38	<0.5	<5	46	100	<0.005	
B0048878		2.42	<0.5	6	38	102	<0.005	
B0048879		2.43	<0.5	5	44	110	<0.005	
B0048880		2.38	<0.5	<5	46	102	<0.005	
B0048881		2.53	<0.5	6	46	99	<0.005	
B0048882		2.44	<0.5	6	47	100	<0.005	
B0048883		2.55	<0.5	<5	42	104	<0.005	
B0048884		2.23	<0.5	<5	44	101	<0.005	
B0048885		2.42	<0.5	8	44	95	<0.005	
B0048886		2.30	<0.5	6	47	90	<0.005	
B0048887		0.07	1.5	20	42	89	1.130	
B0048888		2.37	<0.5	5	41	82	<0.005	
B0048889		2.36	<0.5	<5	46	87	<0.005	
B0048890		2.38	<0.5	<5	48	87	<0.005	
B0048891		2.43	<0.5	<5	46	95	<0.005	
B0048892		2.35	<0.5	5	48	92	<0.005	
B0048893		2.36	<0.5	5	30	97	<0.005	
B0048894		2.38	<0.5	<5	57	95	<0.005	
B0048895		2.36	<0.5	6	55	94	<0.005	
B0048896		1.47	<0.5	<5	42	97	0.045	
B0048897		1.10	<0.5	<5	102	58	0.743	
B0048898		1.16	<0.5	5	21	49	0.196	
B0048899		1.30	<0.5	5	44	48	1.275	
B0048900		1.21	<0.5	<5	15	79	0.427	
B0048901		0.57	<0.5	<5	12	38	<0.005	
B0048902		1.27	<0.5	6	11	45	0.290	
B0048903		1.72	<0.5	<5	7	55	0.048	
B0048904		2.29	<0.5	<5	5	107	0.023	
B0048905		2.12	<0.5	6	3	94	0.010	
B0048906		2.22	<0.5	<5	7	70	<0.005	
B0048907		2.22	<0.5	6	43	116	0.005	
B0048908		2.24	<0.5	7	56	107	<0.005	
B0048909		2.27	<0.5	<5	53	101	0.009	
B0048910		2.22	<0.5	<5	244	143	0.012	
B0048911		2.22	<0.5	<5	20	48	<0.005	
B0048912		2.28	<0.5	<5	46	65	<0.005	
B0048913		2.12	<0.5	<5	5	56	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240834

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20240835

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS TB20240835

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GR22 Au ppm	OA-GR08b S.G. Unity
		0.02	0.5	5	1	2	0.005	0.05	0.01
B0048992		2.32	<0.5	<5	8	31	<0.005		
B0048993		2.27	<0.5	<5	9	30	<0.005		
B0048994		0.11	1.0	5910	50	66	6.38	6.46	
B0048995		2.31	<0.5	<5	5	26	<0.005		
B0048996		2.29	<0.5	<5	5	26	<0.005		
B0048997		2.26	<0.5	<5	10	28	<0.005		
B0048998		2.16	<0.5	<5	13	30	<0.005		
B0048999		1.45	<0.5	<5	33	20	<0.005		
B0049000		2.49	<0.5	<5	7	86	<0.005		
B0049001		0.53	<0.5	<5	12	35	<0.005		
B0049002		2.60	<0.5	<5	5	82	<0.005		
B0049003		2.35	<0.5	<5	8	58	<0.005		
B0049004		2.36	<0.5	<5	8	76	<0.005		
B0049005		2.44	<0.5	<5	8	74	0.005		
B0049006		2.36	<0.5	<5	23	104	0.008		
B0049007		2.25	<0.5	<5	51	105	0.009		
B0049008		1.25	0.7	<5	35	130	1.110		
B0049009		1.12	<0.5	<5	24	34	0.336		
B0049010		1.31	<0.5	<5	9	44	0.018		
B0049011		1.16	<0.5	<5	9	75	0.040		
B0049012		1.26	<0.5	<5	41	80	0.050		
B0049013		1.17	<0.5	<5	19	76	0.013		
B0049014		1.68	<0.5	<5	5	49	0.804		
B0049015		0.07	1.6	17	41	87	1.070		
B0049016		1.63	<0.5	<5	6	56	0.011		
B0049017		1.53	<0.5	<5	6	59	0.012		
B0049018		2.49	<0.5	<5	8	109	0.012		
B0049019		2.46	<0.5	<5	13	131	<0.005		
B0049020		2.55	<0.5	<5	6	95	0.005		
B0049021		2.57	<0.5	<5	3	83	<0.005		
B0049022		2.53	<0.5	<5	17	126	<0.005		
B0049023		3.00	<0.5	<5	16	127	<0.005		
B0049024		1.32	<0.5	<5	18	127	<0.005		
B0049025		1.90	<0.5	<5	17	137	<0.005		
B0049026		2.17	<0.5	<5	7	138	<0.005		
B0049027		2.53	<0.5	<5	53	114	<0.005		
B0049028		2.61	<0.5	<5	56	110	<0.005		
B0049029		0.11	<0.5	<5	19	39	<0.005		
B0049030		2.58	<0.5	<5	45	132	<0.005		
B0049031		2.54	<0.5	<5	32	134	<0.005		



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To: KG EXPLORATION (CANADA) INC.
 25 YORK STREET 17TH FLOOR
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 Account: KECIBQJN

Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240835

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
B0049032		2.50	<0.5	<5	26	100	0.005		
B0049033		2.08	<0.5	<5	23	102	<0.005		
B0049034		2.80	<0.5	<5	21	101	<0.005		
B0049035		2.39	<0.5	<5	20	129	<0.005		
B0049036		2.60	0.5	<5	23	113	<0.005		
B0049037		2.41	<0.5	<5	69	117	<0.005		
B0049038		2.42	0.5	<5	76	154	<0.005		2.72
B0049039		1.62	<0.5	<5	5	97	<0.005		
B0049040		2.30	<0.5	<5	49	149	<0.005		
B0049041		2.46	<0.5	<5	9	92	0.010		
B0049042		2.32	<0.5	26	17	33	0.185		
B0049043		0.11	1.0	5860	49	68	6.55	6.68	
B0049044		2.34	<0.5	14	23	11	0.035		
B0049045		2.20	<0.5	19	28	38	1.115		
B0049046		1.93	<0.5	6	25	86	0.205		
B0049047		1.34	<0.5	<5	51	119	0.009		
B0049048		1.68	0.5	<5	52	115	0.005		
B0049049		2.47	0.5	<5	43	109	<0.005		
B0049050		2.50	<0.5	<5	13	58	<0.005		
B0049051		2.35	<0.5	<5	8	38	0.008		
B0049052		2.33	<0.5	<5	23	119	<0.005		
B0049053		2.26	<0.5	<5	54	114	<0.005		
B0049054		2.24	<0.5	<5	26	99	0.005		
B0049055		2.28	<0.5	<5	39	88	<0.005		2.66
B0049056		2.36	<0.5	<5	44	74	0.010		
B0049057		0.62	<0.5	<5	15	47	<0.005		
B0049058		2.38	<0.5	<5	45	100	0.007		
B0049059		2.49	<0.5	<5	8	103	0.005		
B0049060		2.38	<0.5	<5	12	110	<0.005		
B0049061		2.26	<0.5	<5	12	100	<0.005		
B0049062		2.38	<0.5	<5	11	97	<0.005		
B0049063		1.93	<0.5	<5	30	79	0.091		
B0049064		2.48	<0.5	<5	10	94	0.049		
B0049065		2.36	<0.5	<5	19	117	0.009		
B0049066		2.41	<0.5	<5	42	186	<0.005		
B0049067		2.50	<0.5	<5	34	220	<0.005		
B0049068		3.12	<0.5	<5	69	194	<0.005		2.71
B0049069		2.33	<0.5	<5	50	122	<0.005		



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CERTIFICATE TB20240836

Project: VanHorne

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240836

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Au-AA24	Au-GRA22
		Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Au ppm	Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0048914		2.32	<0.5	<5	2	78	<0.005	
B0048915		0.07	1.4	19	41	92	1.065	
B0048916		2.21	<0.5	<5	8	94	<0.005	
B0048917		2.39	<0.5	<5	4	102	<0.005	
B0048918		2.25	<0.5	<5	7	85	<0.005	
B0048919		2.36	<0.5	<5	25	95	<0.005	
B0048920		2.43	<0.5	<5	18	87	<0.005	
B0048921		2.27	<0.5	<5	2	73	<0.005	
B0048922		2.28	<0.5	<5	47	100	<0.005	
B0048923		0.54	<0.5	<5	11	46	<0.005	
B0048924		2.19	<0.5	<5	3	94	<0.005	
B0048925		2.32	<0.5	<5	9	94	<0.005	
B0048926		2.32	<0.5	<5	48	101	<0.005	
B0048927		1.61	<0.5	<5	6	65	<0.005	
B0048928		1.59	<0.5	<5	21	79	<0.005	
B0048929		2.47	<0.5	<5	17	87	<0.005	
B0048930		2.41	<0.5	<5	33	85	<0.005	
B0048931		2.60	<0.5	<5	51	99	<0.005	
B0048932		2.46	<0.5	<5	47	108	<0.005	
B0048933		2.43	<0.5	<5	72	94	0.006	
B0048934		2.42	<0.5	<5	91	96	0.007	
B0048935		2.42	<0.5	<5	79	117	0.007	
B0048936		2.44	<0.5	<5	77	149	<0.005	
B0048937		0.11	1.0	6350	54	72	6.40	6.03
B0048938		2.47	<0.5	<5	40	151	0.006	
B0048939		2.24	<0.5	<5	102	189	0.008	
B0048940		2.42	<0.5	<5	76	213	0.005	
B0048941		2.40	<0.5	<5	29	278	<0.005	
B0048942		2.26	<0.5	<5	18	256	0.005	
B0048943		1.14	<0.5	<5	15	196	0.006	
B0048944		1.14	0.5	<5	58	640	0.007	
B0048945		1.10	0.7	<5	166	2120	0.016	
B0048946		1.28	0.6	<5	87	1025	0.019	
B0048947		1.13	<0.5	<5	27	505	<0.005	
B0048948		1.32	<0.5	<5	8	388	<0.005	
B0048949		1.17	<0.5	<5	8	292	<0.005	
B0048950		0.11	<0.5	<5	18	40	<0.005	
B0048951		1.08	<0.5	<5	47	209	<0.005	
B0048952		1.30	0.6	<5	71	153	<0.005	
B0048953		1.19	<0.5	<5	43	147	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240836

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Au-AA24 Au ppm	Au-GRA22 Au ppm
		0.02	0.5	5	1	2	0.005	0.05
B0048954		1.15	<0.5	<5	16	241	<0.005	
B0048955		1.21	0.7	<5	133	200	0.006	
B0048956		1.17	1.2	<5	205	208	0.020	
B0048957		1.20	1.5	<5	395	380	0.016	
B0048958		1.13	0.8	<5	197	352	0.005	
B0048959		1.25	0.8	<5	128	224	0.005	
B0048960		2.49	1.2	<5	192	186	<0.005	
B0048961		2.51	1.0	<5	156	170	0.005	
B0048962		2.26	<0.5	<5	36	89	<0.005	
B0048963		0.11	1.6	18	44	95	1.065	
B0048964		2.36	<0.5	<5	47	102	<0.005	
B0048965		2.47	0.7	<5	87	150	<0.005	
B0048966		2.32	<0.5	<5	60	142	<0.005	
B0048967		2.30	0.5	<5	104	109	<0.005	
B0048968		2.25	<0.5	<5	20	111	<0.005	
B0048969		2.19	<0.5	<5	11	143	<0.005	
B0048970		2.42	<0.5	<5	27	97	<0.005	
B0048971		2.25	<0.5	<5	23	108	<0.005	
B0048972		2.35	<0.5	<5	32	97	<0.005	
B0048973		2.29	<0.5	<5	13	99	<0.005	
B0048974		2.76	<0.5	<5	15	85	<0.005	
B0048975		2.31	<0.5	<5	20	73	<0.005	
B0048976		0.62	<0.5	<5	11	41	<0.005	
B0048977		2.47	<0.5	<5	27	123	<0.005	
B0048978		2.38	<0.5	<5	32	118	<0.005	
B0048979		2.47	<0.5	<5	29	119	<0.005	
B0048980		2.36	<0.5	<5	34	130	<0.005	
B0048981		2.32	<0.5	<5	15	133	<0.005	
B0048982		2.24	<0.5	<5	43	167	<0.005	
B0048983		1.78	<0.5	<5	15	48	<0.005	
B0048984		2.31	<0.5	<5	9	38	<0.005	
B0048985		2.29	<0.5	<5	13	36	0.006	
B0048986		2.40	<0.5	<5	9	39	<0.005	
B0048987		2.42	<0.5	<5	9	32	<0.005	
B0048988		2.49	<0.5	<5	13	24	<0.005	
B0048989		2.42	<0.5	<5	11	41	<0.005	
B0048990		2.22	<0.5	<5	11	35	<0.005	
B0048991		2.42	<0.5	<5	9	30	<0.005	



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20240836

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61



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CERTIFICATE TB20242760

Project: VanHorne

This report is for 47 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 22-OCT-2020.

The following have access to data associated with this certificate:

GRAHAM LONG	KELSEY PRIVETT
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
LOG-21	Sample logging - ClientBarCode
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
OA-GRA08b	Specific Gravity for Pulps	WST-SIM
ME-ICP61	33 element four acid 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, General Manager, North Vancouver



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Project: VanHorne

CERTIFICATE OF ANALYSIS TB20242760

Sample Description	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Zn-OG62	Au-AA24	Au-GRA22	OA-GRA08b
	Recvd Wt. kg	Ag ppm	As ppm	Cu ppm	Zn ppm	Zn %	Au ppm	Au ppm	S.G. Unity
Method Analyte Units LOD	0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0049148	1.73	<0.5	<5	4	107		<0.005		
B0049149	0.11	1.4	15	41	86		0.966		
B0049150	2.16	<0.5	<5	16	104		<0.005		
B0049151	2.04	<0.5	<5	31	147		<0.005		
B0049152	2.43	<0.5	14	36	117		0.259		2.82
B0049153	2.39	2.2	116	314	404		0.385		
B0049154	2.36	0.7	32	82	281		0.113		
B0049155	2.45	<0.5	6	29	115		0.011		
B0049156	2.25	<0.5	6	10	144		<0.005		
B0049157	2.72	0.8	53	113	1990		0.091		
B0049158	2.31	0.6	32	21	395		0.010		
B0049159	2.56	0.6	82	21	331		0.022		
B0049160	0.84	14.5	36	1770	>10000	1.605	>10.0	19.95	
B0049161	2.36	0.5	17	104	2320		0.034		
B0049162	2.42	0.5	<5	64	245		0.019		
B0049163	0.61	<0.5	<5	12	47		<0.005		
B0049164	2.47	<0.5	<5	14	86		0.007		
B0049165	1.66	<0.5	7	21	82		2.72		
B0049166	0.90	<0.5	<5	142	86		0.647		
B0049167	0.11	<0.5	<5	19	36		0.005		
B0049168	2.20	<0.5	<5	10	70		0.168		
B0049169	2.64	<0.5	7	16	78		1.075		
B0049170	2.57	<0.5	<5	7	76		0.388		
B0049171	2.28	0.6	5	13	41		0.650		
B0049172	2.32	<0.5	5	24	65		1.140		
B0049173	2.44	<0.5	<5	44	75		0.324		
B0049174	2.26	<0.5	<5	39	73		0.272		
B0049175	2.26	<0.5	<5	11	81		0.005		
B0049176	2.66	<0.5	<5	4	84		<0.005		
B0049177	2.36	<0.5	<5	62	90		<0.005		
B0049178	0.11	0.6	5810	51	69		6.59	6.20	
B0049179	1.21	<0.5	7	27	75		0.007		2.77
B0049180	2.47	<0.5	<5	15	80		0.005		
B0049181	2.50	<0.5	<5	4	73		0.011		
B0049182	1.28	<0.5	<5	5	76		0.022		
B0049183	1.31	<0.5	<5	21	69		0.550		
B0049184	2.30	<0.5	5	29	121		0.137		
B0049185	2.30	<0.5	<5	33	98		0.129		
B0049186	2.51	<0.5	<5	53	117		1.235		
B0049187	2.23	<0.5	5	26	56		1.055		



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CERTIFICATE OF ANALYSIS TB20242760

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP61 Ag ppm	ME-ICP61 As ppm	ME-ICP61 Cu ppm	ME-ICP61 Zn ppm	Zn-OG62 Zn %	Au-AA24 Au ppm	Au-GRA22 Au ppm	OA-GRA08b S.G. Unity
		0.02	0.5	5	1	2	0.001	0.005	0.05	0.01
B0049188		2.49	<0.5	<5	40	101		0.094		
B0049189		2.45	<0.5	<5	40	111		0.129		
B0049190		2.43	<0.5	<5	49	113		0.490		
B0049191		0.11	<0.5	<5	19	36		<0.005		
B0049192		2.55	<0.5	5	25	144		0.373		
B0049193		2.59	<0.5	5	52	121		0.259		
B0049194		2.60	<0.5	<5	40	132		0.024		



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CERTIFICATE OF ANALYSIS TB20242760

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada		
	CRU-31	CRU-QC	LOG-21
	PUL-31	PUL-QC	SPL-21
			LOG-23
			WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-AA24	Au-GRA22	ME-ICP61
	OA-GRA08b	Zn-OG62	
			ME-OG62