

**2016 Field Season  
Geochemical Sampling And Prospecting Report  
On The  
Grabben Gold Focused Regional Project**

**Claims  
Basal 1-10, Uran 1-8, Sask 1-20, Glow 1-24**

**Located In  
Dawson Mining District**

**On  
NTS 115-O-11  
63° 39' north and 139° 10' west**

**By  
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November 23<sup>rd</sup>, 2016**

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**Location** – The Grabben Gold Project is located in the Dawson Mining District on NTS mapsheet 115-O-11 roughly centred on Haystack Mountain which is located at approximately 63° 39' north and 139° 10' west.

**Access** – Access for much of the program was achieved by helicopter from Dawson City a one-way distance of approximately 46 kilometres which resulted in an approximate 20 minute one-way flight. Two shutdown style helicopter pads and two toe-in pads were constructed proximal to the main work area. There is a road to an active placer mine on Stowe Creek approximately 5.2 kilometres southeast of the main work area (Grabben M), which provided access to work on the southern portion (Grabben S) of the project. Old poor quality bulldozer roads extend from the Indian River placer workings up both Mackinnon Creek and Ruby Creek with the Mackinnon Creek road ending approximately 4.5 kilometres from the main work area and 3.25 kilometres from northern-most area that saw significant exploration during 2016 (Grabben N).

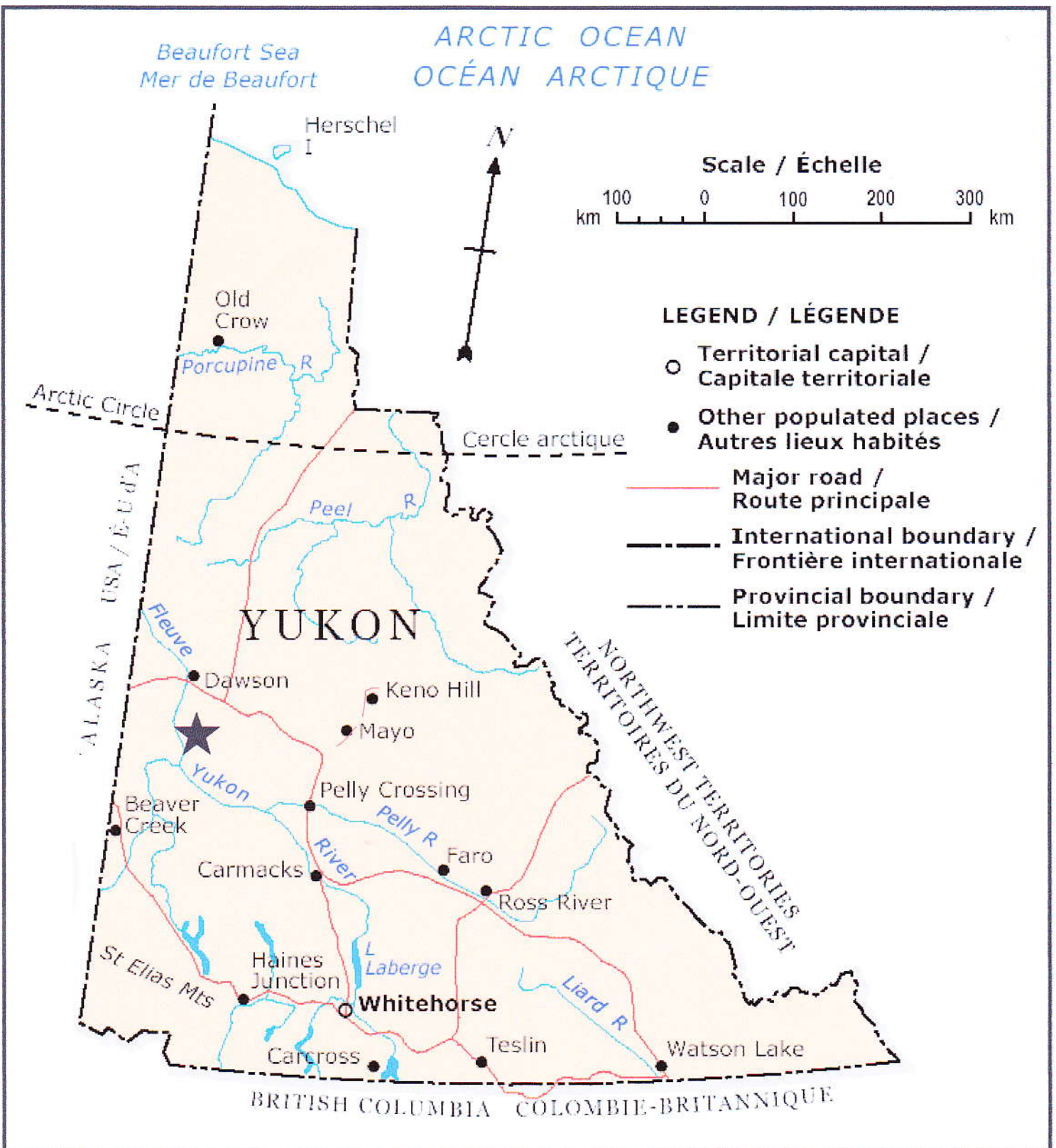
**Topography And Vegetation** – The property lies within the un-glaciated Klondike Plateau, which is characterized by low rolling hills dissected by deeply incised stream valleys. This region experienced strong surficial weathering during the early and mid-Tertiary, as a result, bedrock exposure is extremely limited with the effects of surface weathering extending to depths of as much as 80 metres or more. Where hand trenches were completed, overburden and regolithic averaged about 1.0 metre in most areas which allowed for effective soil sampling (via hand held augers) and hand trenching at most sites. Permafrost is widespread on north facing slopes, but rarely occurs in other areas. Although snow cover is mostly gone by early May, frost does not leave the ground sufficiently for exploration purposes until about mid-June. The property is below tree line, higher elevations are covered by mixed spruce, birch, poplar and brush, with tree cover generally increasing at lower elevations and on south facing slopes, with brush and stunted trees predominating on north facing slopes, at higher elevations and in areas of permafrost. Much of the project area was burnt by a recent forest fire, which destroyed moss cover particularly in dry areas, with the effect of providing somewhat more bedrock exposure than is typically present in the Dawson area.

**Claims And Land Status** – Numerous quartz claims were staked in the area during the White Gold staking rush and subsequent exploration “boom” that followed. Although numerous active claims remain in the area, the bulk of the target area is open and available for exploration. The project is located within Trondek Hwichin (Dawson) traditional territory, with no active First Nation land claim blocks in the area prospected.

**History And Previous Work** – Hardrock exploration efforts in the area date back to early 1899 when the Mackinnon brothers, Donald and Archibald, first discovered gold in the area. Over an approximate 20 year period they sank a total of 3 shafts, drove 3 adits and cut numerous trenches. At the peak of activity over 3,000 claims were staked to cover the conglomerates which were thought to have similarities to the Witwatersrand Goldfields discovered in 1886. Although numerous promising assays of up to 48 oz/T gold were reported, and a small mill was erected on the Mackinnon Property, no significant gold was produced and the exploration “play” eventually died.

Numerous assessment reports and scientific studies, most of which relate to work completed in the immediate area of the Mackinnon Property (currently covered by the Glow 1-24 claims), just north of Haystack Mountain, are available in the public domain. Short summaries of each report are as follows:

AR 060902 – T.Lisle p.Eng for Andac Resources – 1973 – Mapping, prospecting and soil sampling was conducted on the Mackinnon Property. Geology consists of a conglomerate unit, intruded and overlain by andesite and rhyolite dykes and flows, sitting on a bed of Nasina series schist. Although rock sampling failed to outline any significant gold-silver trends or anomalies within the conglomerate, several areas of silicification were noted in association with a NNW trending fault paralleling Mackinnon Creek.



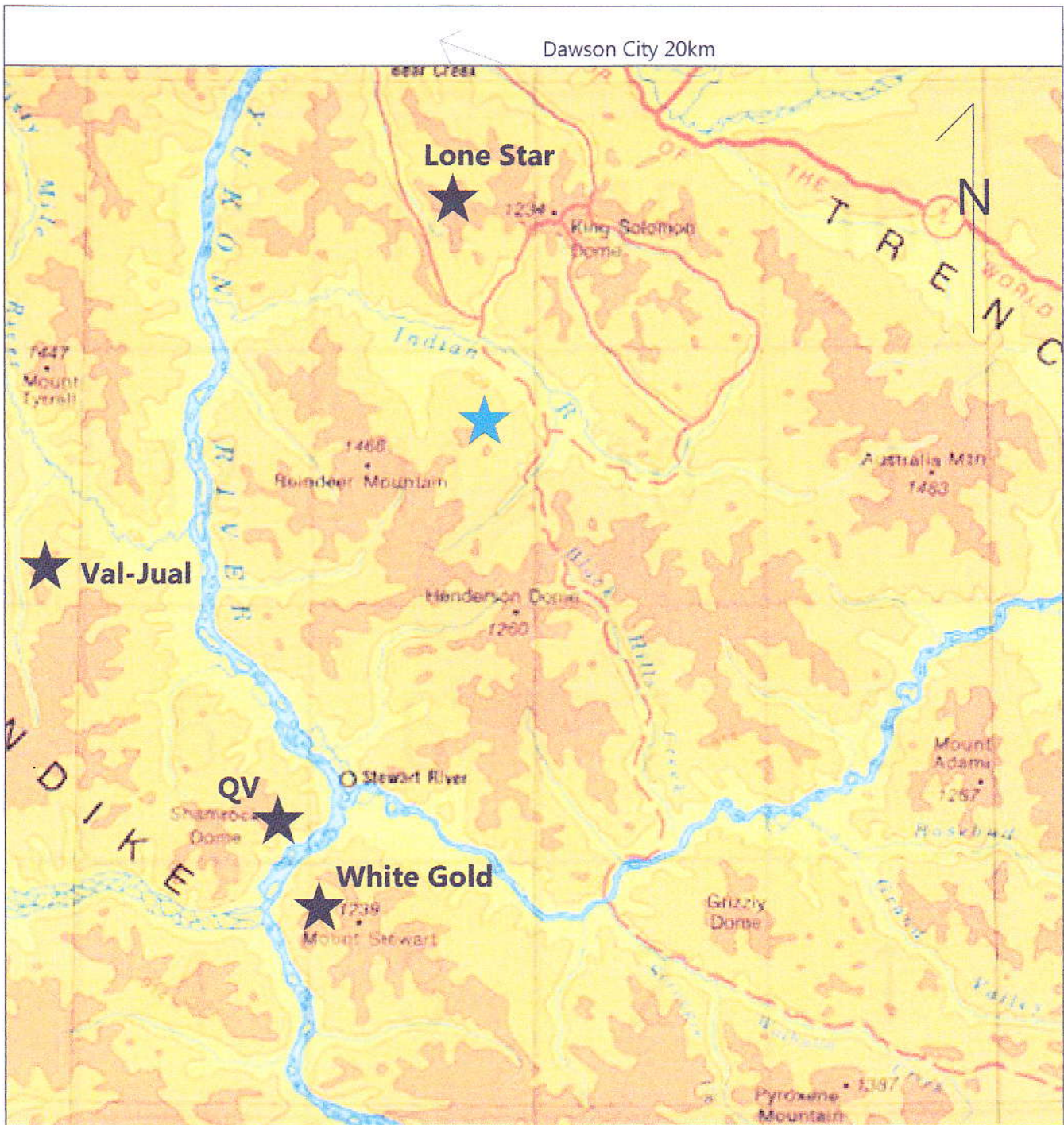
Grabben Gold Project ★


To Accompany: 2016 Grabben Gold Final Report

December 1st, 2016

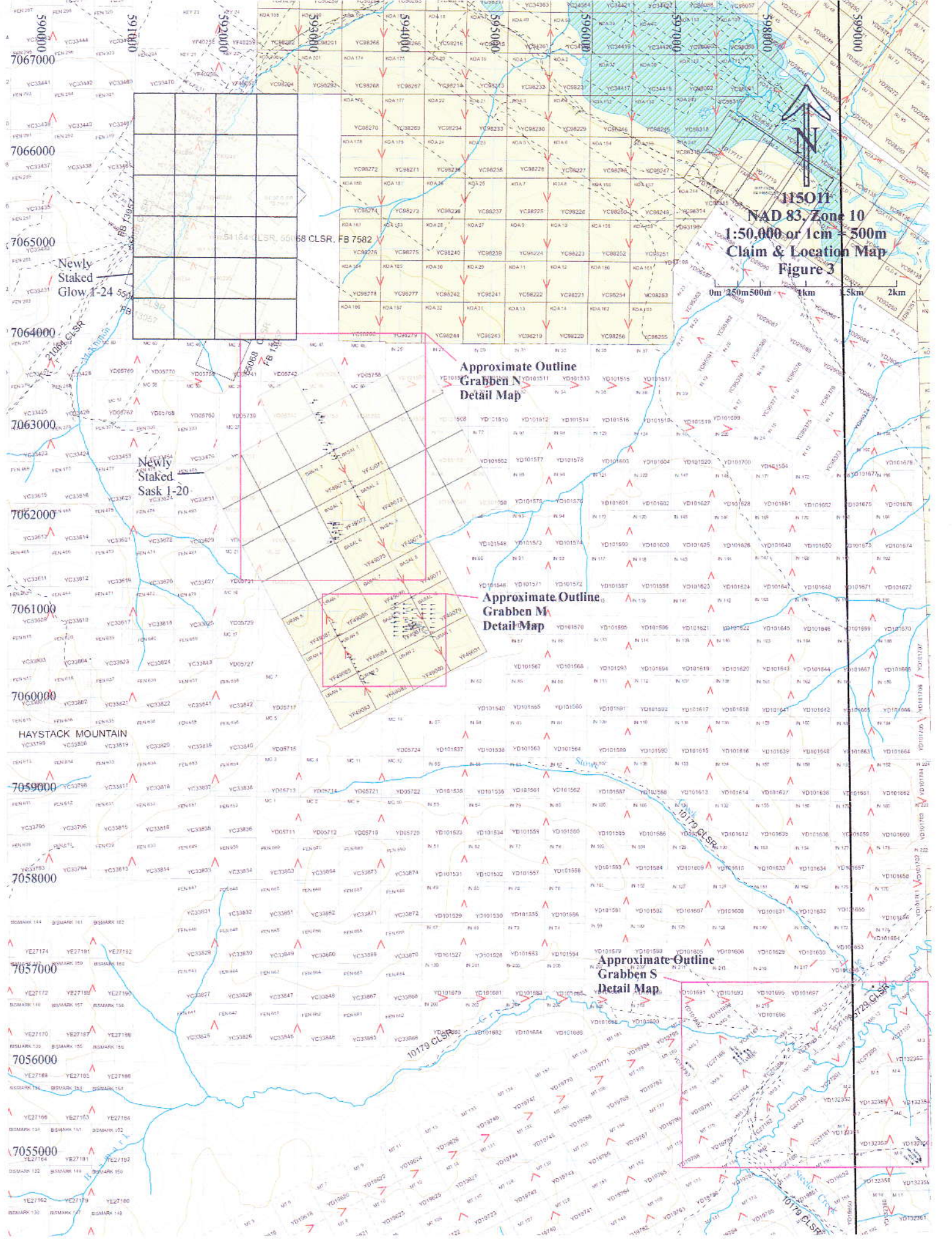
By: Bernie Kreft

Figure 1



Regional Map - Grabben Gold Project   
 Fig.2

Scale approx. 1:600,000



NAD 83, Zone 10  
1:50,000 or 1cm = 500m  
Claim & Location Map  
Figure 3

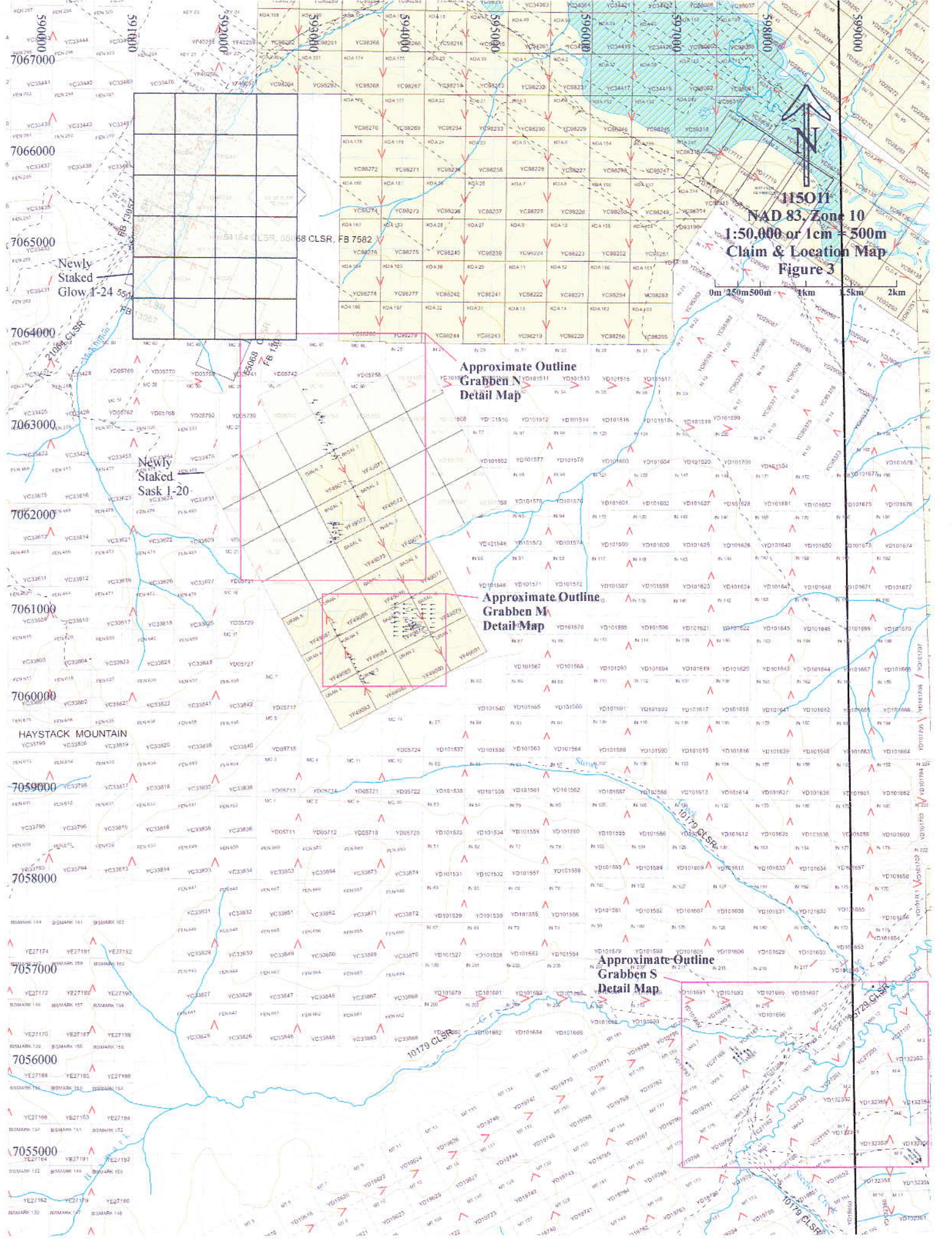
Newly Staked  
Glow 1-24 551

Newly Staked  
Sask 1-20

Approximate Outline  
Grabben N  
Detail Map

Approximate Outline  
Grabben M  
Detail Map

Approximate Outline  
Grabben S  
Detail Map



AR 061474 – Don Tully p.Eng for Yukon Revenue Mines – 1973 – Exploration on the Mackinnon Property returned grab samples of conglomerate with up to 0.07 oz/ton Au while silicification and a potential fault zone along Mackinnon Creek were also noted.

AR 061475 – Ron Granger for Yukon Revenue Mines – 1974 – A rotary drilling program consisting of 4 five inch in diameter holes totalling 920 feet was completed in an effort to test the gold potential of the conglomerate outcrops of the Mackinnon Property. Assays returned a maximum of 0.005 oz/T gold and 0.64 oz/T silver from a 10 foot interval of white quartz pebble conglomerate. Several sections of black conglomerate were noted, with the dark coloring due to abundant fine graphite within the conglomerate matrix. It was also noted that significant gold was produced when samples of conglomerate were processed using placer recovery methods and that gold may exist within the conglomerate but not report to traditional fire assay procedures.

AR091354 – Paul Richardson for Dome Exploration – 1979 – Dome completed a total of 4 diamond drill holes (4,135 feet) in the area of the historical shafts of the Mackinnon Property. Drilling encountered a mixed sequence of mudstone to conglomerate with rare occurrences of Carmacks group volcanics. Assaying was focused almost entirely on intersections of conglomerate which returned only background values except for one intersection of 0.18 g/t Au over 4 feet of quartz pebble conglomerate. Only drill logs exist for this report.

AR 091406 – R.D. Cruickshank for Eldorado Nuclear – 1981 – Eldorado Nuclear completed exploration designed to locate a basal-type uranium deposit, with limited exploration for epithermal precious metals also completed. Work was conducted in the area south of Haystack Mountain and consisted of mapping, aeromagnetic interpretation, scintilometer readings, thin section work and a total of 20 rock samples. Mapping showed that the late Cretaceous to Eocene sedimentary to volcanic rocks in the project area occupy a presumed graben setting cut by numerous high angle normal faults active during the period of vulcanism. Interpretation of regional aeromagnetic data suggests that the graben straddles a major WNW trending discontinuity interpreted to be a major basement structure. Rock sampling returned values of up to 100 ppb gold from a sample of conglomerate and samples of rhyolite which returned weakly anomalous mercury to 1400 ppb and arsenic to 22 ppm.

During 1983 Grant Lowey conducted a study of the Mackinnon Creek conglomerates in the area of the Mackinnon Property in an effort to ascertain whether the gold bearing conglomerate was a result of epithermal processes or a paleoplacer deposit. He noted the presence of fine gold within the conglomerate in the vicinity of the Britannia adit and based on various studies concluded that the faulting and alteration, fine gold particle size and close proximity to intermediate to felsic intrusions suggested a likely epithermal origin for the gold.

AR 091941 – Dave Waugh for Volcano Resources – 1986 – Mapping confirmed the presence of visible gold within the Mackinnon Property area but associated sampling and assaying failed to return strongly supportive gold assays. Silicification suggesting hydrothermal alteration and the potential for a Carlin-type low-grade gold deposit was noted in the vicinity of the old workings while the black conglomerate "McKinnon Conglomerate Unit" with abundant graphite in the matrix was considered a favourable host for an epigenetic hydrothermal type gold deposit.

AR 092082 – Dave Waugh for Volcano Resources – 1987 – A nine-hole 1521 foot drill program was designed to test bedrock in the area of the Mackinnon Property showings, specifically the potential for the conglomerates to host epithermal style precious metals mineralization. Drilling encountered numerous intersections of weakly anomalous gold with a program high of 0.195 g/t Au over 24 feet from an interval consisting of intensely argillic altered and brecciated limonitic quartz pebble conglomerate in contact with a similarly altered and brecciated felsic volcanic body.

AR 093167 – Graham Davidson for Richlode Investments – 1993 – A total of six 500 kilogram bulk samples were extracted from conglomerate in the immediate vicinity of the Mackinnon Property showings. The samples were processed for both fine gold and coarse gold using industry accepted methodology with the best result being 0.118 g/t gold.

During 2006-07 Bond and Chapman from the University of Leeds conducted a study on the origins of gold hosted by the conglomerates of the Indian River formation (Mackinnon Creek conglomerate). Results were generally inconclusive mostly due to a failure to definitively locate gold within the conglomerate unit; however the chemical and mineral signature of gold derived from unconsolidated areas of the conglomerate unit is consistent with that of gold grains obtained from Eureka Creek hardrock project, which has been characterized as a low sulphidation precious metals enriched epithermal system.

2009 – Minconsult for Westar Resources – A limited soil sampling program consisting of two parallel soil lines totalling 167 samples was completed at the time of staking. Results show numerous moderate to highly anomalous gold values of up to 70 ppb along with highly anomalous arsenic values of up to 240 ppm found clustered in two areas northeast of Haystack Mountain. No follow up work was conducted.

2009 – Mark Fekete for Taku Gold – A limited soil sampling program consisting of several reconnaissance ridge and spur sample lines returned values of up to 88.8 ppb Au and numerous samples with greater than 66.3 ppm arsenic to a high of 257 ppm arsenic existing as two clusters, one in the general vicinity of the Westar anomalies and one east of Haystack Mountain. No follow up work appears to have been conducted.

This historical exploration data shows that although significant amounts of advanced work such as drilling, trenching and bulk-sampling have been completed within the project area only a small amount of soil sampling, which is the prime mineral exploration vectoring method in this terrain, has been completed with this work concentrated in a 2km<sup>2</sup> area distal to and completed well after all of the advanced work. It should also be noted that the advanced work was focused almost entirely on the economic potential of the conglomerate unit.

**Geology Metallogeny And Mineralization** – Based on the above reports, academic studies, government mapping efforts and results of the 2016 field season, the geological setting of the Grabben Gold Project is thought to consist of a graben filled with presumed early Cretaceous Indian River Group clastic sedimentary rocks comprised predominantly of conglomerates and sandstones intruded and overlain by late Cretaceous presumably Carmacks Group (age dates of 64.8 to 69 ma) rhyodacite, dacite, andesite and intermediate intrusive units as well as early Eocene rhyolite to rhyodacite stocks, dykes and flows. This package is cut by numerous normal faults and overlies a possible major basement structure within the bounding Nasina series schists and gneisses. The outline of this presumed graben complex highlights well using the first vertical derivative (“FVD”) aeromagnetic map from the Stewart River regional multi-parameter airborne geophysical survey. As can be seen from the FVD overview map accompanying this report, the Grabben Gold complex is one of several presumed complexes within the immediate area.

The Carmacks Group is an approximate 72-64 Ma volcanic succession, generally including a lower fragmental unit and an upper flood basalt unit, dominated by basic volcanic strata including augite-olivine basalt and breccia, hornblende feldspar porphyry andesite and dacite flows, and trachyte, but also including intermediate and locally felsic volcanic rocks. The thickest and coarsest volcanoclastic sections are occasionally cored by small high-level potassic plugs likely belonging to the Prospector Mountain Suite (72-68 Ma) or possibly representing late stage Casino Suite (79-74 Ma) activity. This geological setting is correlative with the metallogenically significant Bulkley Suite intrusives located in central BC. Bulkley Suite (88-70 Ma) intrusives are highly prospective for porphyry copper targets such as Huckelberry, while significant epithermal precious metal deposits such as Blackwater (70-67 Ma; reserves of 8.6 million ounces



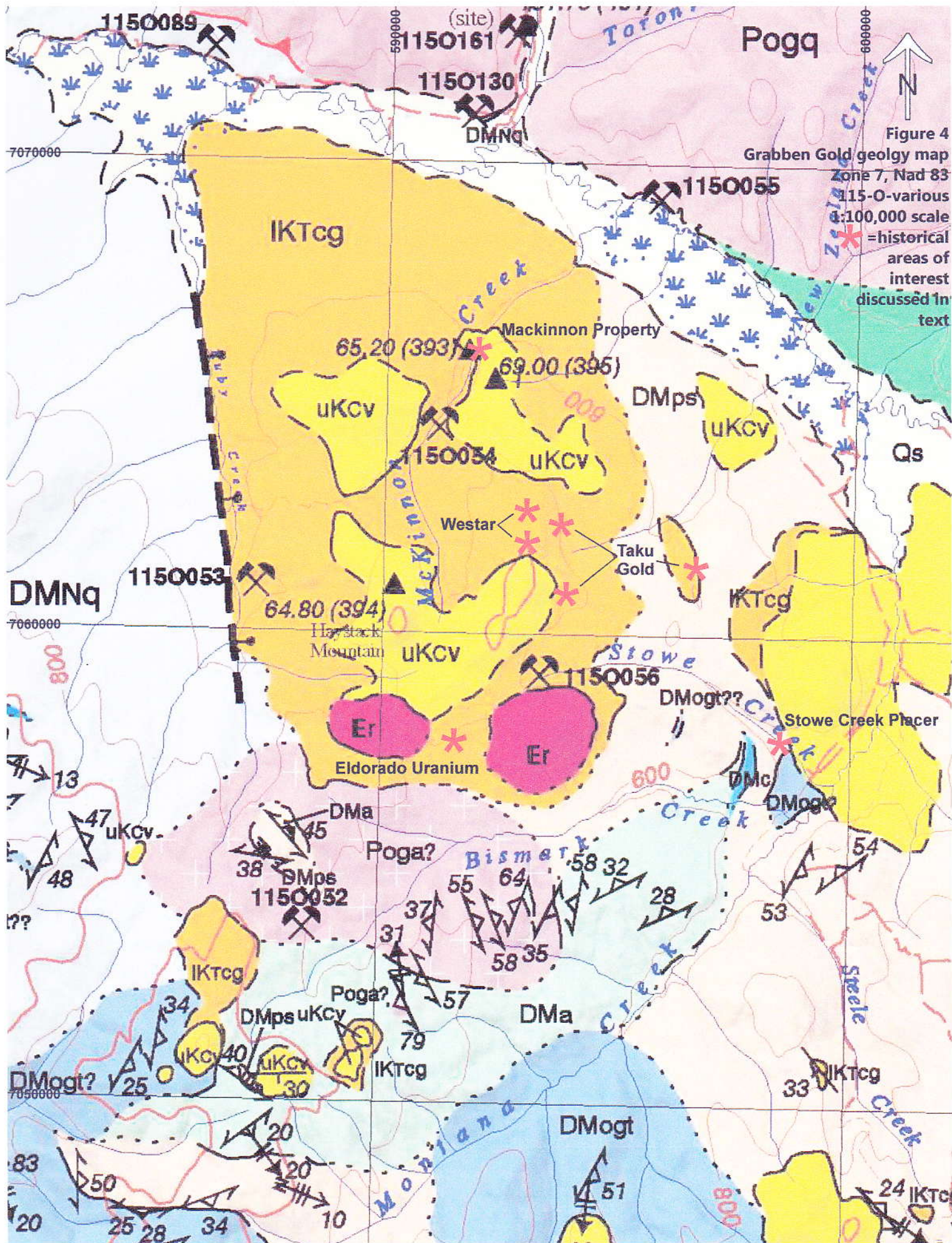


Figure 4  
 Grabben Gold geology map  
 Zone 7, Nad 83  
 1:100,000 scale  
 \* = historical areas of interest discussed in text

**Figure 4A - Geological Legend to accompany 2016 Kreft Grabben Gold Final Report**

CENOZOIC	QUATERNARY	Qs	Fluvial silt, sand and gravel
		Qb	Basalt
CENOZOIC	TERTIARY EOCENE	Er	PORPHYRY: Smokey quartz and K-feldspar phyrlic rhyolite to rhyodacite stocks and dykes, and possible rare flows
	CRETACEOUS UPPER CRETACEOUS	uKcV	CARMACKS GROUP: rhyodacite and dacite, commonly biotite and hornblende phyrlic, dominated by lesser andesite and basalt; minor rhyolite
MID?-CRETACEOUS		Kg Kgd	GRANITE/GRANODIORITE: Kg, pink to grey, locally porphyritic syenogranite to monzogranite plutons and dykes; Kgd, biotite-hornblende bearing granodiorite, locally foliated
LOWER CRETACEOUS		IKTcg	TANTALUS(?) FORMATION: clast-supported pebble to cobble conglomerate with clasts of vein quartz and foliated quartzite
MESOZOIC	PERMIAN	Pogg Pogg Poga Pogt	ORTHOgneiss (YOUNGER, 264-259 Ma): Pog, undivided orthogneiss; Pogg, pink to orange K-feldspar rich, granitic orthogneiss, commonly includes or associated with Poga; Poga, mainly K-feldspar augen orthogneiss, exhibits various states of strain including porphyroclastic straight gneiss, commonly includes or associated with Pogg; Pogt, rare, mainly tonalitic orthogneiss; Poga, orthogneiss derived from quartz monzonite; refers to highly strained, mafic poor, Sulphur Creek orthogneiss; ?-age assignment probable, ??-age assignment assumed (alternatively could be part of DMog).
	PALEOZOIC	DEVONIAN TO MISSISSIPPIAN	DMNq DMni
		DMogg DMoga	ORTHOgneiss (OLDER, 363-343 Ma): DMog, undivided orthogneiss; DMogg, pink to orange K-feldspar rich, granitic orthogneiss, commonly with biotite, banded to layered, commonly includes or associated with DMoga; DMoga, mainly K-feldspar augen orthogneiss, commonly includes or associated with DMogg; DMogt, mainly tonalitic or intermediate to mafic orthogneiss, generally grey, banded to layered, commonly veined; commonly interlayered with amphibolite schist and gneiss, biotite and/or hornblende bearing; ?-age assignment probable, ??-age assignment assumed (alternatively could be part of Pog)
		DMogt	
		DMogta	Undivided DMogt (ORTHOgneiss (OLDER)) and DMa (AMPHIBOLITE)
		DMa	AMPHIBOLITE: amphibolite schist and gneiss, metabasite, probably derived from mafic to intermediate volcanic or volcanoclastic rocks; locally associated with psammite or interlayered with orthogneiss
		DMm	MAFIC SCHIST: biotite-hornblende +/- plagioclase +/- quartz metabasite?, generally associated with amphibolite; main locality on Thistle Mountain
		DMc	MARBLE: marble (metacarbonate) derived from pure to impure limestone; associated calc-silicate schist derived from calcareous metapelite
		DMps	QUARTZ-MICA SCHIST: undivided metasedimentary rocks dominated by metapsammite, semipelite and metapelite; commonly quartz-garnet-biotite-muscovite schist possibly derived from siliceous siltstone; commonly finely interlayered with garnet metapelite; commonly contains members of micaceous quartzite; rare conglomerate; grades locally to paragneiss

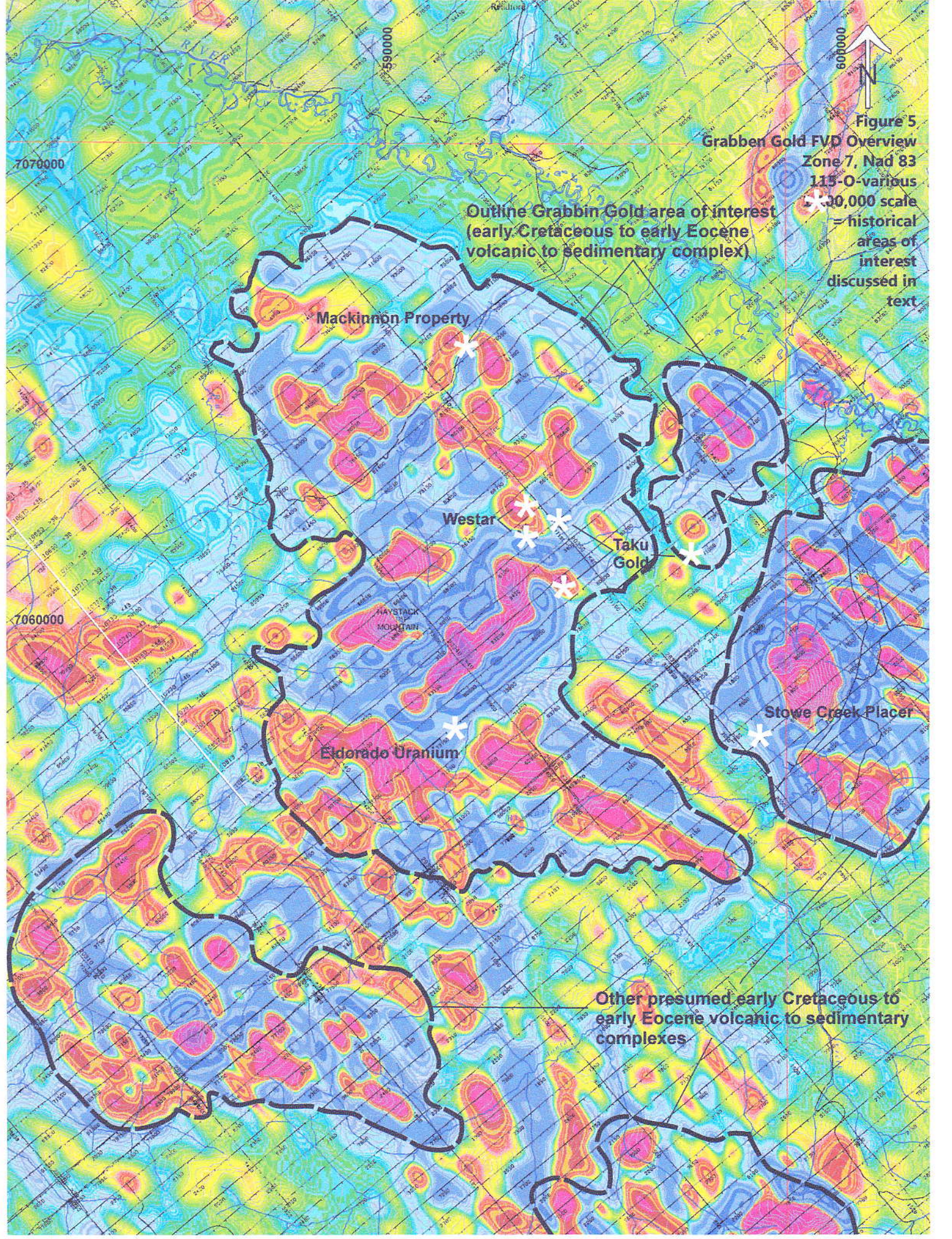
of gold and 57.5 million ounces of silver) are associated with the waning stages of Bulkley Suite magmatism. Worldwide, shoshonitic and high-K calc-alkaline magmatism is associated with world-class hydrothermal gold and copper-gold mineralization. Examples are: 1) Ladolam gold mine, Lihir Island, Papua New Guinea; 2) Bingham copper-gold mine, Utah; 3) Grasberg copper-gold mine, Indonesia; 4) Oyu Tolgoi copper-gold mine, Mongolia.

Numerous geologically similar mixed sedimentary to volcanic early Cretaceous to early Eocene sequences occur throughout the area south and west of Dawson. Of these similar Yukon sequences, the only one which has received significant amounts of hardrock exploration work is located in the Sixtymile placer district approximately 85 kilometres to the northwest. Exploration by Erwin Kreft during 1986 located a zone (Per occurrence) of variably clay altered, silicified, pyritic and sheared Carmacks Group andesitic volcanics in the floor of a placer mining cut near the mouth of Miller Creek. In 1988 Klondike Gold Mining Corporation optioned this occurrence from Mr. Kreft and drilled 7 holes (765 m) with a program best intersection of 8.76 g/t Au over 10.5 m in DDH D4/88-02.

In 2010 Radius Gold/Rackla Resources recognized the epithermal precious metal potential in the Sixty Mile River valley and acquired much of the ground in the area. Their work identified the presence of a down dropped half graben within which the Carmacks group andesites are variably silicified, sheared and clay altered. Subsequent exploration included drilling of the historic Per showing which lies within a broad zone of illite alteration. DDH11-08 intersected strongly bleached and sericite altered Carmacks Group andesite crosscut by narrow dolomite pyrite veins that returned an interval of 19.0 g/t Au over 1.0m. Drill hole DDH11-10 intersected 132.0 g/t Au over 1.5m. This hole was drilled 1.4km east northeast of hole DDH11-08. The interval consisted of bleached, hematized and sericite altered quartz feldspar biotite schist cross cut by minor quartz/pyrite veins. Several holes also cut a blind, potassic and sericitically altered feldspar porphyry body as part of a Cretaceous volcanic-intrusive package located in a pull-apart basin located along the Sixty Mile River valley bottom. The porphyry body contains disseminated pyrite and pyrite +/- chalcopyrite-molybdenite bearing fractures and stockworks with silica-sericite alteration haloes yielding a best interval of 542 ppm Cu and 41 ppm Mo over 271.27 m starting at 8.8 m to EOH in DDH11-05.

**Airborne Geophysical Survey** – During 2000 the GSC and Yukon Geological Survey co-sponsored an airborne geophysical survey (Multisensor Airborne Geophysical Survey; GSC Open File 3992) covering much of the Klondike Goldfields including the Grabben Gold project area. Results of the airborne survey in conjunction with government mapping efforts and 2016 fieldwork appear to suggest that areas underlain by Carmacks Group volcanics correlate well with FVD aeromagnetic highs of 0.300 nT/m or greater while RTF aeromagnetic data suggests large or smaller unaltered volcanic bodies represent strong positive highs while smaller or more altered bodies manifest as weak to moderate positive anomalies. Areas with strong potassium response likely represent large, fresh and relatively un-altered volcanic bodies while areas of moderate potassium response may represent altered volcanics, bodies with a small surficial expression or perhaps sediments metasomatically altered by intrusive activity. Ultimately the data contained in Open File 3992 will prove of great value when used in conjunction with a field mapping project.

**Current Work And Results** – The 2016 field program on the Grabben project consisted of prospecting, soil sampling, rock sampling, hand trenching and staking yielding a total of 116 soil samples, 80 rock samples and 62 quartz claims. The soil samples were generally taken from the C horizon, except at a few sites where overburden was frozen in which case B horizon material was taken, using hand held augers. Rock samples were sourced from occasional bedrock exposures as well as small hand dug pits and trenches. Sample sites were marked in the field using flagging inscribed with the sample code, with the soil samples placed in an industry standard soil sample envelope and the rock samples in industry standard poly sample bags. All samples were analyzed by Bureau Veritas, with soils prepped by SS80 (100g to -80 mesh assay), rocks prepped by PRP70-250 (250g split and pulverize), with analyses on most samples consisting of FA430 (30



**Figure 5**  
**Grabbin Gold FVD Overview**  
**Zone 7, Nad 83**  
**115-O-various**  
**1:30,000 scale**  
**\* = historical**  
**areas of**  
**interest**  
**discussed in**  
**text**

**Outline Grabbin Gold area of interest**  
**(early Cretaceous to early Eocene**  
**volcanic to sedimentary complex)**

**Mackinnon Property**

**Westar**

**Taku Gold**

**Eldorado Uranium**

**Stowe Creek Placer**

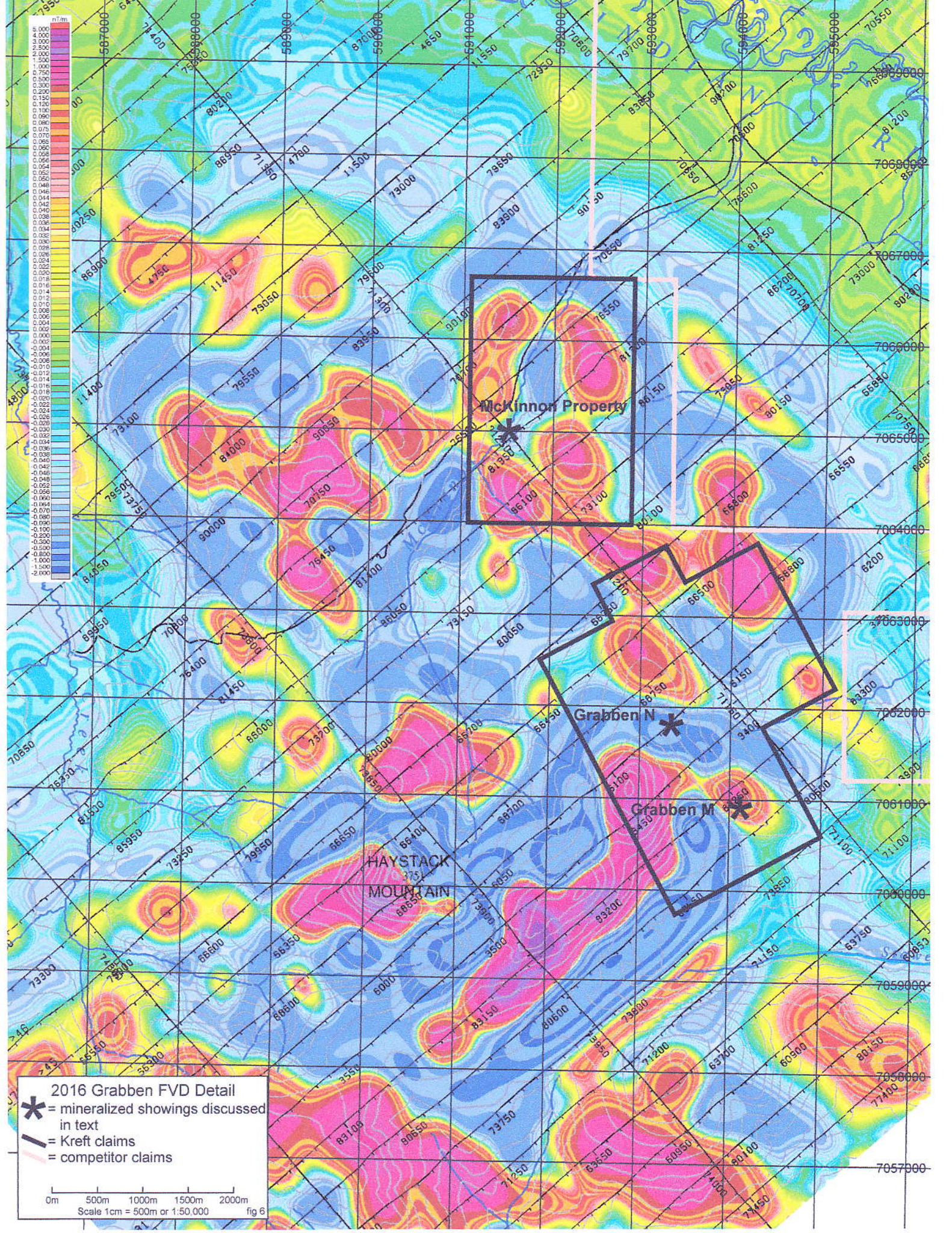
**Other presumed early Cretaceous to**  
**early Eocene volcanic to sedimentary**  
**complexes**

7070000

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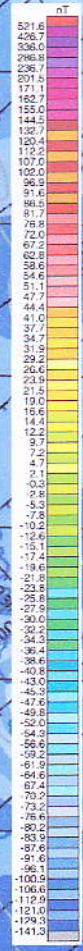
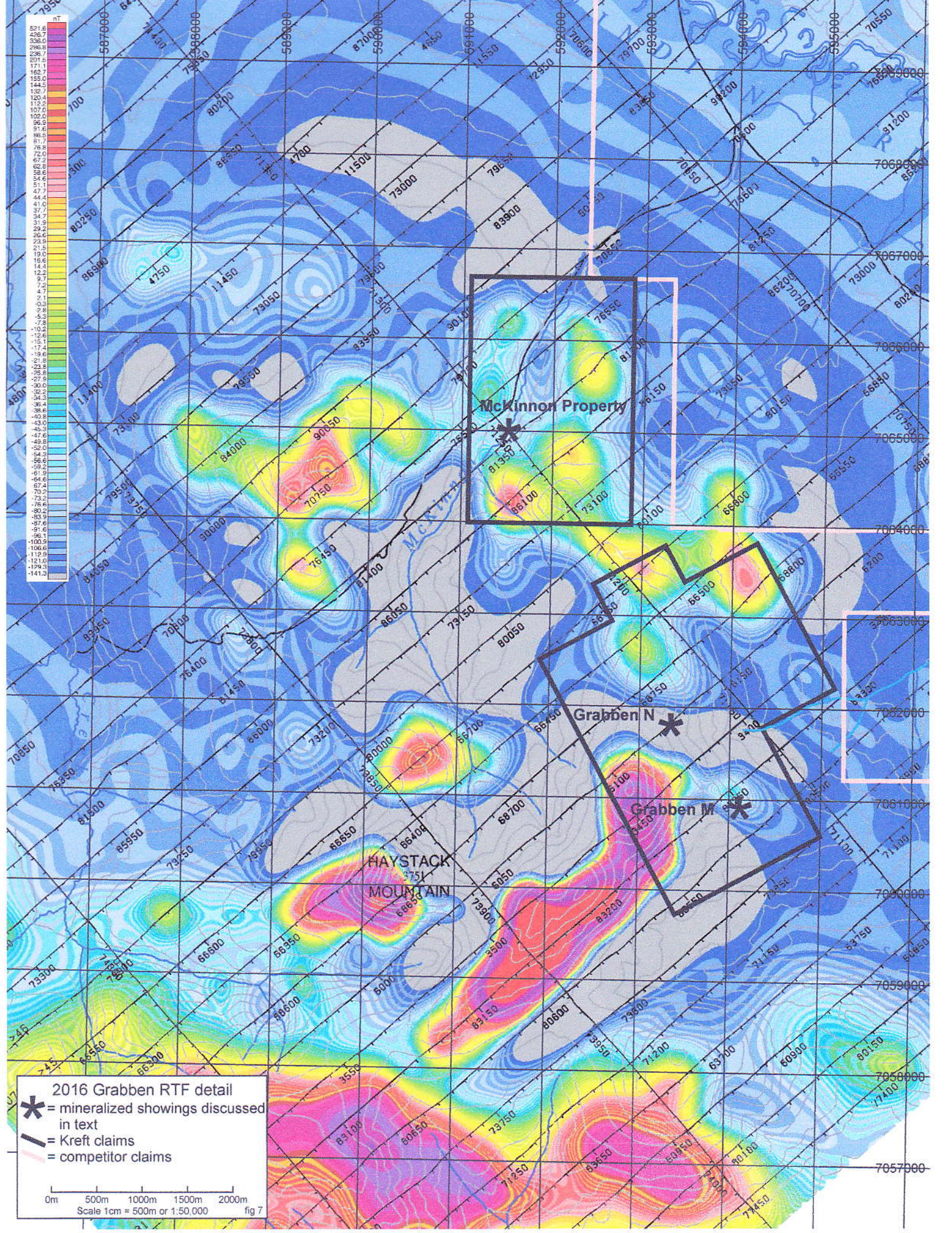
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\* 2016 Grabben FVD Detail  
 \* = mineralized showings discussed in text  
 / = Krefit claims  
 - = competitor claims

0m 500m 1000m 1500m 2000m  
 Scale 1cm = 500m or 1:50,000 fig 6



**McKinnon Property**

**Grabben N**

**Grabben M**

**HAYSTACK MOUNTAIN**  
3751

**2016 Grabben RTF detail**

\* = mineralized showings discussed in text

— = Kref claims

— = competitor claims

0m 500m 1000m 1500m 2000m  
Scale 1cm = 500m or 1:50,000 fig 7



2016 Grabben Potassium detail

- \* = mineralized showings discussed in text
- = K্রেft claims
- - - = competitor claims

0m 500m 1000m 1500m 2000m  
 Scale 1cm = 500m or 1:50,000 fig 8

gram fire assay) and AQ300 (0.5 gram 35 element aqua regia ICP-MS) packages while some samples were analyzed by AQ201 (15 gram 36 element aqua regia ICP-MS).

Work was concentrated in 3 main areas designated Grabben N (north), Grabben M (central) and Grabben S (south).

Grabben N – Work at Grabben N consisted of prospecting and reconnaissance style soil sampling together yielding 11 rock samples and 31 soil samples.

Geology is predominantly sedimentary in nature and consists of mudstone, fine to coarse sandstone, and pebble conglomerate ranging from polymictic to quartz dominant with matrix through to clast supported varieties. Intruding the sedimentary units is a quartz biotite andesite or intermediate intrusive varying from massive and relatively fresh or unaltered generally away from contacts, gradational to variably limonitic bleached and fractured or brecciated as the presumed contact with the sedimentary units is approached. All sedimentary units are typically weakly hornfelsed and variably silicified. The effects of faulting, including fracturing and brecciation, have been noted in finer clastic units and likely occur in the conglomerate unit as well but are much less obvious.

Visible fresh sulphides are very limited within most units except for sections of the conglomerate which contain up to 3% pyrite in the matrix as well as trace fine disseminated pyrite in fine clastics. Grey to black patches, presumed to be very fine grained sulphides, have been noted within both narrow quartz veins and mudstone to sandstone wallrock. The presence of brecciated mudstone partially cemented by goethite and limonite as well as fractured and brecciated intermediate intrusive with limonite veins and fracture fillings suggests that a significant amount of sulphide was present prior to weathering.

Several of the rock samples taken in the Grabben N area returned interesting geochemical values. Sample CONR-15 consisting of a grab sample of a quartz limonite vein with dark patches cutting mudstone with dark patches and mineralized with trace disseminated pyrite returned 20.6 ppm Ag, 189.8 ppb Au, 8,484.9 ppm As, 196.1 ppm Pb, 98.3 ppm Sb and 113 ppm Bi. Sample CONR-18 consisting of a grab sample of a limonitic coarse sandstone with dark patches and trace disseminated pyrite cut by a quartz lined fracture and a 1cm wide quartz vein with dark patches returned 8.4 ppm Ag, 134.8 ppb Au, 2,350 ppm As, 46.8 ppm Pb, 13.1 ppm Sb and 2.4 ppm Bi. Sample CONR-19 consisting of brecciated mudstone cemented with limonite and goethite returned 17.7 ppm Ag, 69 ppb Au, 3,614.9 ppm As, 107.4 ppm Pb, 55.4 ppm Sb and 28.8 ppm Bi. Based on the geochemical results it is very likely that the dark patches in these samples represent extremely fine-grained sulphide mineralization such as arsenopyrite with the anomalous amounts of bismuth suggesting mineralization may be intrusive related. Analytical results from reconnaissance style soil sampling help define an approximate 110m x 180m area variably anomalous in Au-Ag-As-Pb-Sb-Bi associated with the anomalous rock geochemistry detailed above, while scattered weak to moderately anomalous soil geochemistry with values of up to 0.033 ppm Au, 0.9 ppm Ag and 97 ppm As extend up to 700m north of the main anomalous area.

Grabben M – Work at Grabben M consisted of prospecting, hand trenching and a small soil sample grid together yielding 64 rock samples and 77 soil samples.

Geology consists of a pebble conglomerate ranging from polymictic to quartz dominant with matrix through to clast supported varieties and lesser amounts of fine to coarse sandstone. Intruding the sedimentary units is a quartz biotite andesite or intermediate intrusive varying from massive and relatively fresh or unaltered generally away from presumed contacts, gradational to variably limonitic, bleached and fractured or brecciated as the presumed contact with the sedimentary units is approached. All sedimentary units are



typically weakly hornfelsed and variably silicified with the conglomerate matrix occasionally weakly clay altered.

Visible fresh sulphides are very limited within most units except for sections of the conglomerate which contain up to 0.5% pyrite in the matrix as well as trace fine disseminated pyrite in fine clastics. Grey to black patches, presumed to be very fine grained sulphides, have been noted in the matrix of silicified conglomerate generally wrapping around, or partially enveloping, clasts. All rocks units are weakly to rarely moderately limonitic with one area of heavily weathered and likely sheared intrusive highly limonitic and weakly scoroditic. The effects of weathering and surface oxidation have resulted in a near complete lack of outcrop within the area prospected.

Significant precious metals values have been found in both the conglomerate as well as the intermediate intrusive. Conglomerate hosted mineralization consists of a sub cm-scale fracture controlled grey quartz sulphide vein with values of up to 810 ppm Ag, 4.362 ppm Au, >10,000 ppm As, >10,000 ppm Pb, >2,000 ppm Sb and 104 ppm Bi. Several areas of conglomerate are silicified, have a weak to moderately clay altered matrix and contain dark patches, likely consisting of very fine grained sulphide, which wrap or partially envelope clasts. Maximum metal values from samples of altered conglomerate with no obvious veining are 4.6 ppm Ag, 0.021 ppm Au, 1,724.3 ppm As, 699 ppm Pb and 27.4 ppm Sb. Although only a few fragments of sulphide vein material have been encountered to date, soil geochemistry suggests similar sulphide veining is somewhat more widespread than prospecting results suggest.

Values of up to 62.4 ppm Ag, 7,911.7 ppb Au, >10,000 ppm As, 2,419.8 ppm Pb and 300.9 ppm Sb were returned from a 0.65m channel sample of variably fractured or sheared limonitic and weakly scoroditic bleached intermediate intrusive. Although only a single precious metals enriched shear/fracture system has been encountered to date, soil geochemistry suggests the presence of other similarly mineralized structures in the overburden covered area surrounding this showing.

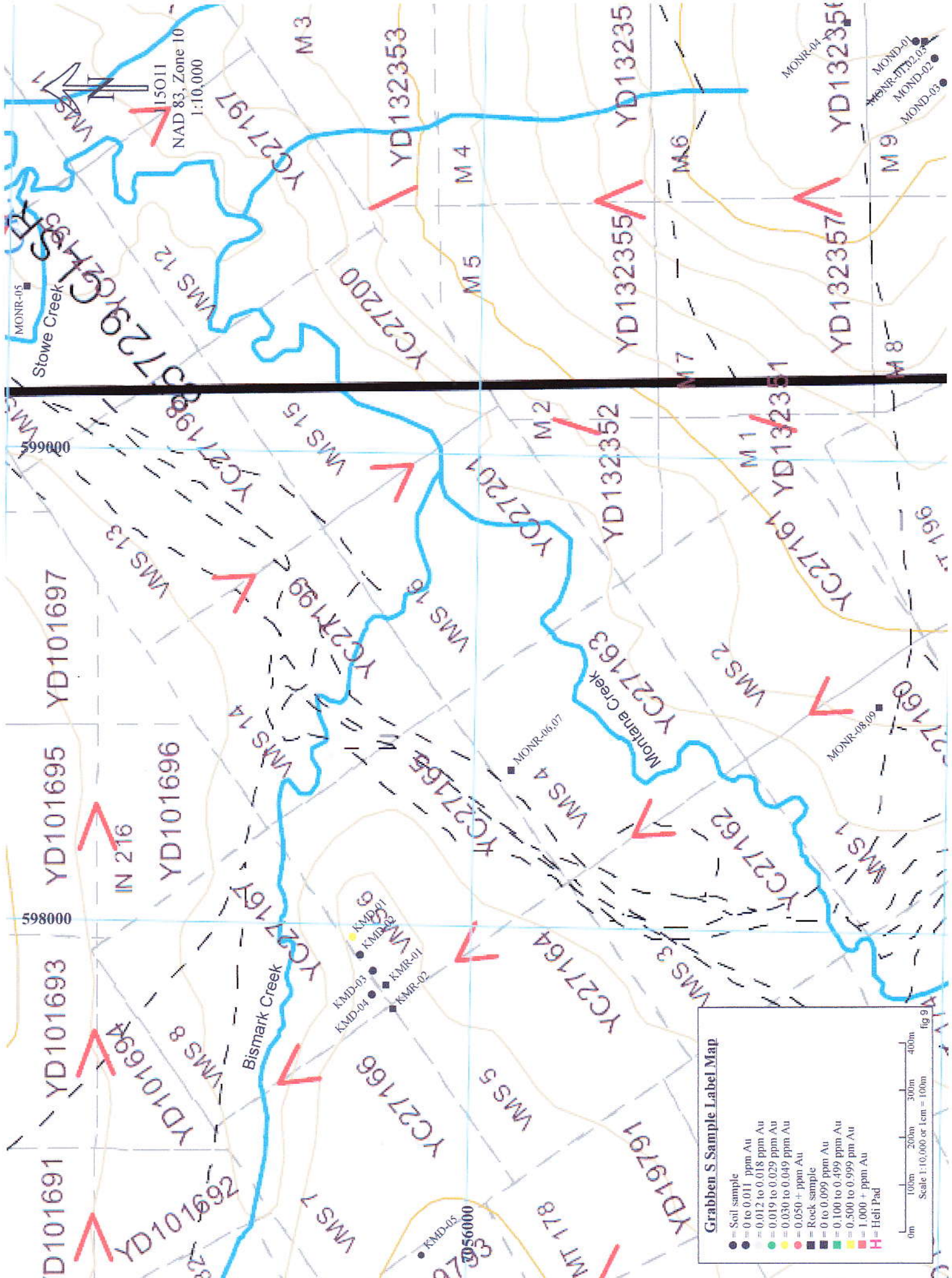
Soil geochemistry results approximately define a weakly anomalous to highly anomalous gold and occasional arsenic anomaly coincident with the mineralized showings described above and which is approximately 150 metres wide and 450 metres long with potential for extensions to the southeast and northwest.

**Grabben S** – Work on the southern portion of the project was designed to prospect and sample areas of outcrop or bedrock exposures within or peripheral to the placer mined drainage basins in the area. Geology at lower elevations such as the placer mined valley bottoms of Stowe, Montana and Bismark Creeks consists of Nasina Assemblage carbonaceous schist, quartzite and lesser marble. Slightly higher elevations are covered by Indian River Group clastic sediments intruded by rhyolitic to andesitic volcanic rocks. A total of 8 soils and 11 rock samples were taken, with no significantly anomalous areas defined.

**Conclusions** – The Grabben Gold project represents the first significant precious metals discovery within the historically heavily explored MacKinnon Creek/Haystack Mountain area, and one of the few Yukon based discoveries in this geological setting. Mineralization consists of extremely fine-grained sulphides, with a Au-Ag-As-Pb-Sb-Bi signature, hosted within veins, shears and breccia zones developed in both early-mid Cretaceous clastic sediments and late Cretaceous Carmacks Group (69-64.8 Ma) andesite and intermediate intrusives with these units occupying a presumed graben setting. Mineralization appears to be best developed within fine clastics and the intrusive bodies, with only minor amounts occurring within conglomerate bodies, and may be associated with waning stages of Prospector Mountain Suite (72-68 Ma) magmatism which is thought to be the sub-volcanic equivalent of the Carmacks Group. Late Cretaceous intrusives such as the Casino and Prospector Mountain Suites in the Yukon and the Bulkley Suite in BC are highly prospective for both porphyry (Casino deposit and Huckleberry Mine) and epithermal style deposits such as Blackwater in

central BC where reserves of 8.6 million ounces of gold and 57.5 million ounces of silver are associated with the waning stages (70-67 Ma) of Bulkley Suite magmatism. Although significant amounts of advanced work such as drilling, trenching and bulk-sampling have been conducted in the Grabben Gold area, the vast majority of this work was focused on the economic potential of the conglomerate bodies and the amount of preliminary vectoring methods such as soil sampling was extremely limited in both scale and extent, thereby leaving significant potential for a grassroots discovery especially in areas underlain by volcanic to intrusive bodies and fine clastics.

**Recommendations** – Further work is recommended for the Grabben Gold project. Reconnaissance style soil sampling, mapping and prospecting should be completed in all areas of the presumed graben complex not yet covered by this type of work. Detailed soil sampling, prospecting and hand trenching should be completed over the mineralized showings at Grabben M and Grabben N. The results of this work should be used to guide a short excavator trenching or rotary air blast drilling program.



**Grabben S Sample Label Map**

- = Soil sample
- = 0 to 0.011 ppm Au
- = 0.012 to 0.018 ppm Au
- = 0.019 to 0.029 ppm Au
- = 0.030 to 0.049 ppm Au
- = 0.050 + ppm Au
- = Rock sample
- = 0 to 0.099 ppm Au
- = 0.100 to 0.499 ppm Au
- = 0.500 to 0.999 ppm Au
- = 1.000 + ppm Au
- H = Helipad

0m 100m 200m 300m 400m  
Scale 1:10,000 or 1cm = 100m  
fig 9

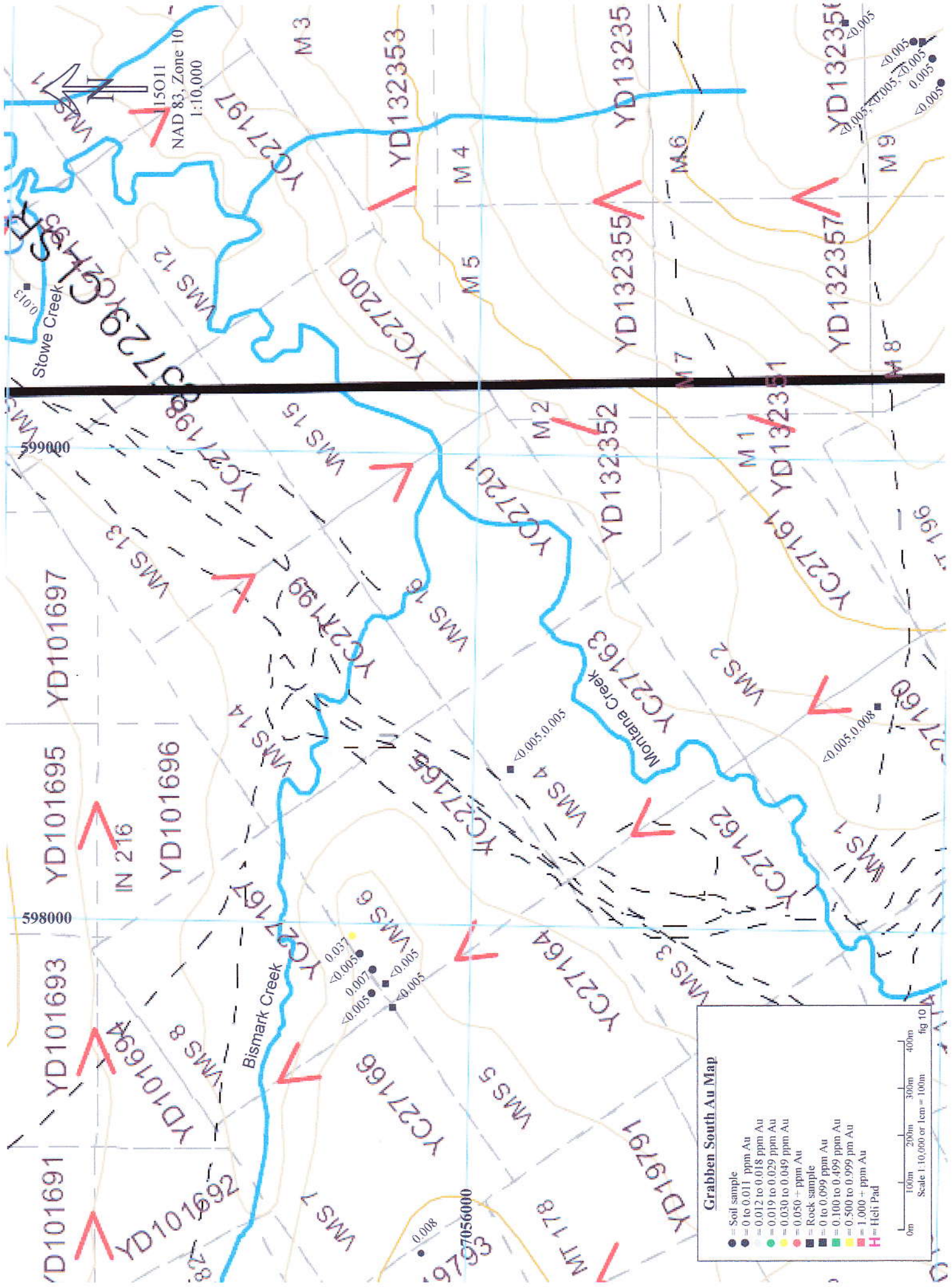
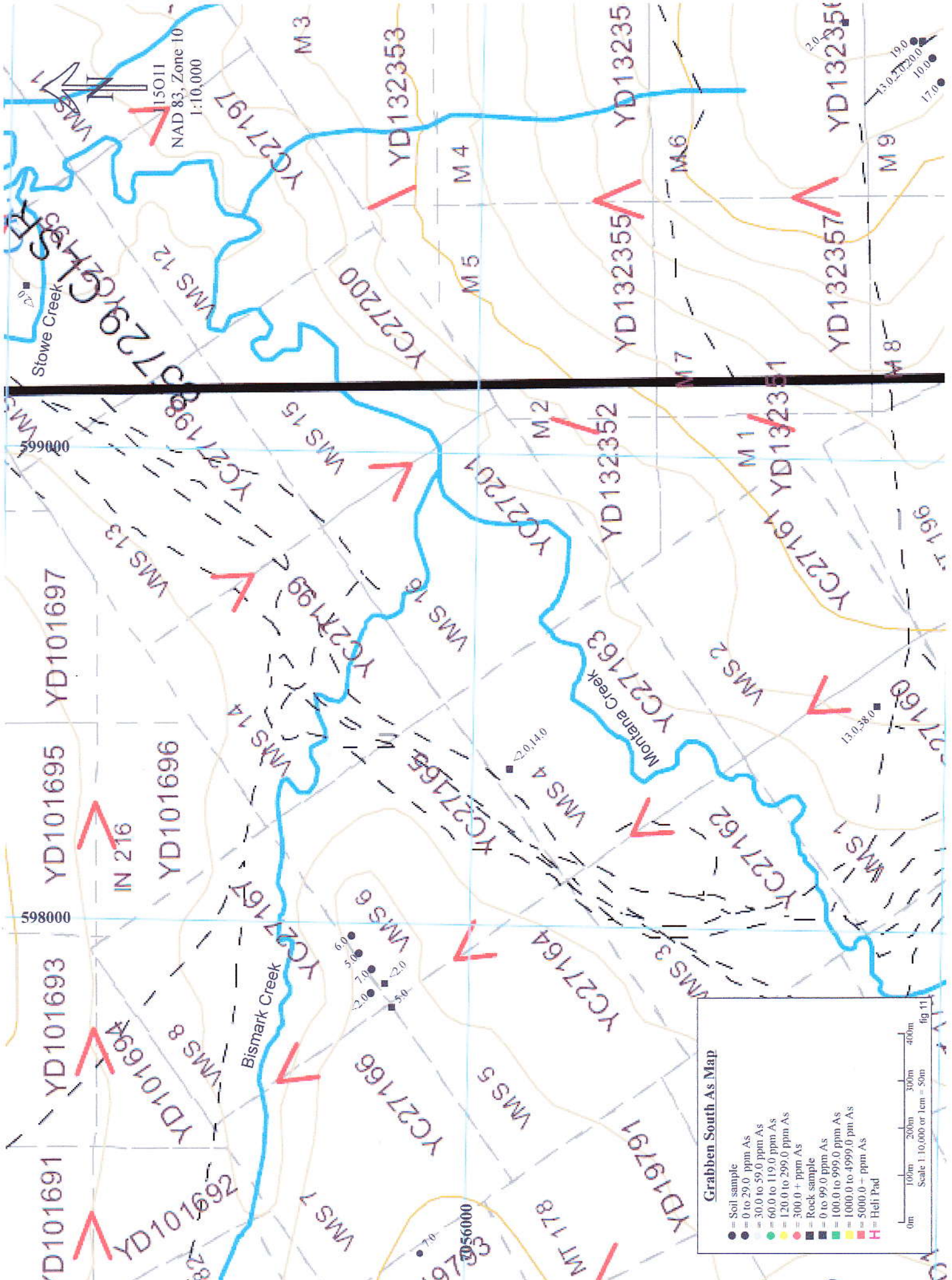


fig 10

Scale 1:10,000 or 1cm = 100m

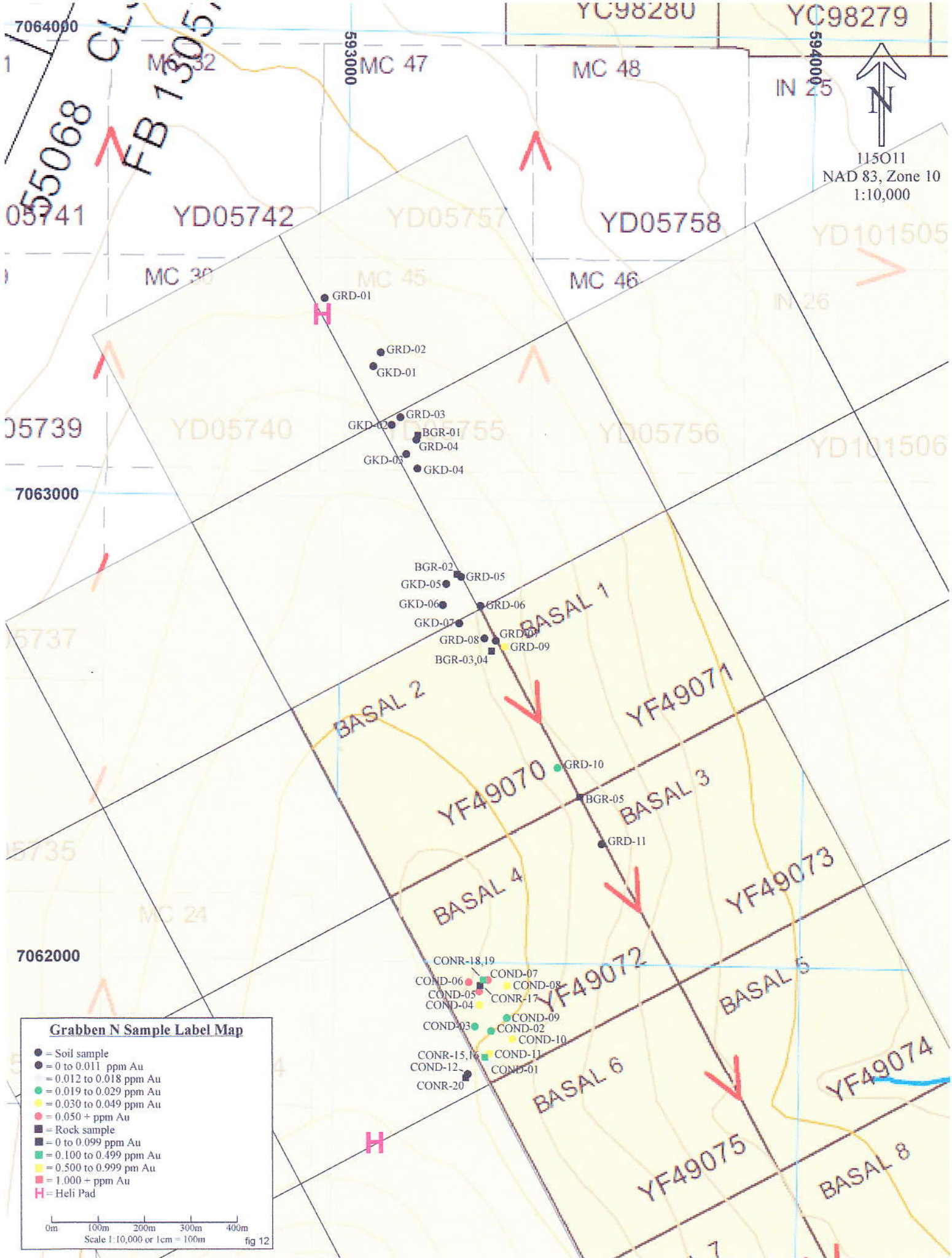


**Grabben South As Map**

- = Soil sample
- = 0 to 29.0 ppm As
- = 30.0 to 59.0 ppm As
- = 60.0 to 119.0 ppm As
- = 120.0 to 299.0 ppm As
- = 300.0 + ppm As
- = Rock sample
- = 0 to 99.0 ppm As
- = 100.0 to 999.0 ppm As
- = 1000.0 to 4999.0 ppm As
- = 5000.0 + ppm As
- H = Heli Pad

0m 100m 200m 300m 400m  
 Scale 1:10,000 or 1cm = 50m

fig 11

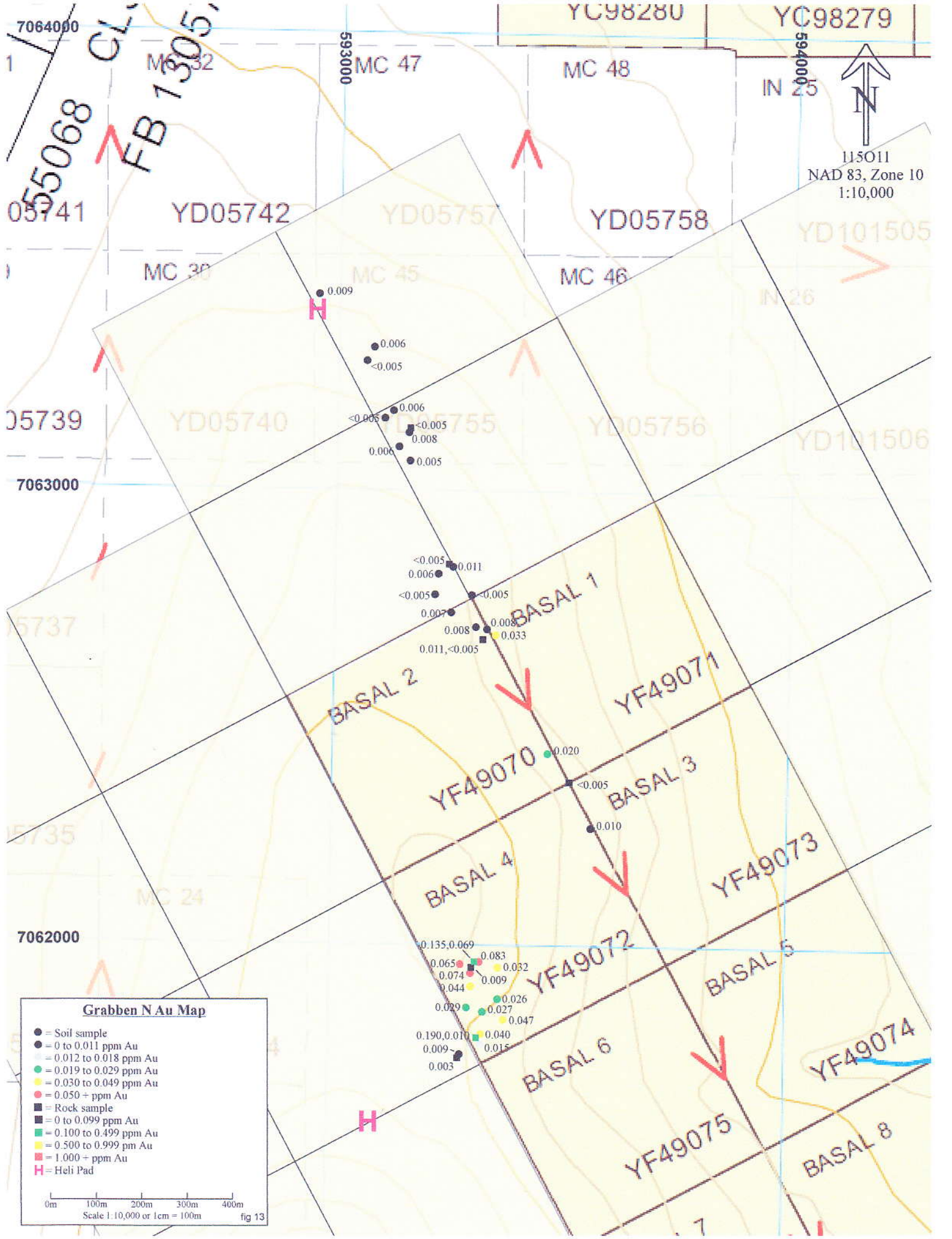


115011  
NAD 83, Zone 10  
1:10,000

**Grabben N Sample Label Map**

- = Soil sample
- = 0 to 0.011 ppm Au
- = 0.012 to 0.018 ppm Au
- = 0.019 to 0.029 ppm Au
- = 0.030 to 0.049 ppm Au
- = 0.050 + ppm Au
- = Rock sample
- = 0 to 0.099 ppm Au
- = 0.100 to 0.499 ppm Au
- = 0.500 to 0.999 ppm Au
- = 1.000 + ppm Au
- H = Heli Pad

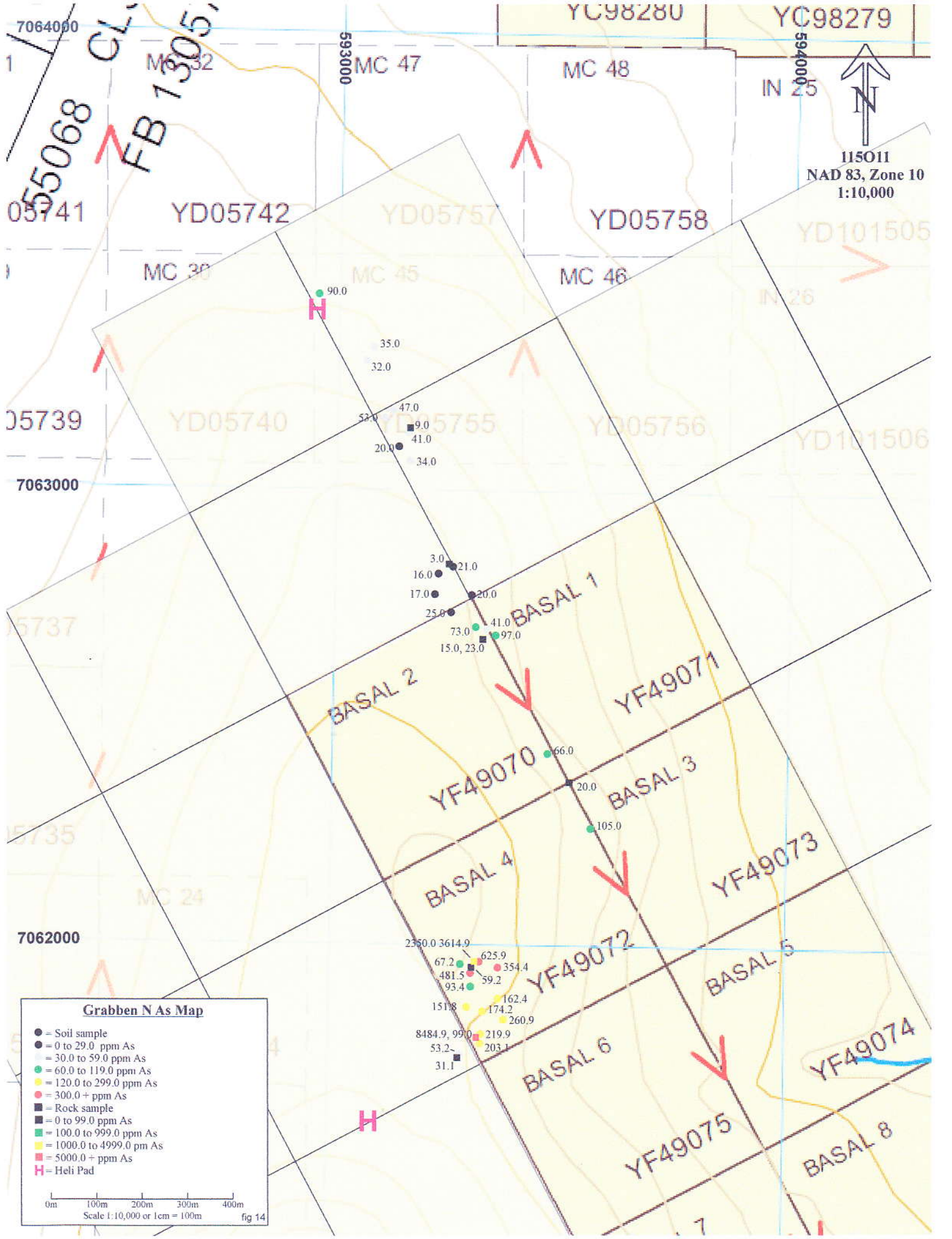
0m 100m 200m 300m 400m  
Scale 1:10,000 or 1cm = 100m fig 12



**Grabben N Au Map**

- = Soil sample
- = 0 to 0.011 ppm Au
- = 0.012 to 0.018 ppm Au
- = 0.019 to 0.029 ppm Au
- = 0.030 to 0.049 ppm Au
- = 0.050 + ppm Au
- = Rock sample
- = 0 to 0.099 ppm Au
- = 0.100 to 0.499 ppm Au
- = 0.500 to 0.999 ppm Au
- = 1.000 + ppm Au
- H = Heli Pad

0m 100m 200m 300m 400m  
Scale 1:10,000 or 1cm = 100m fig 13



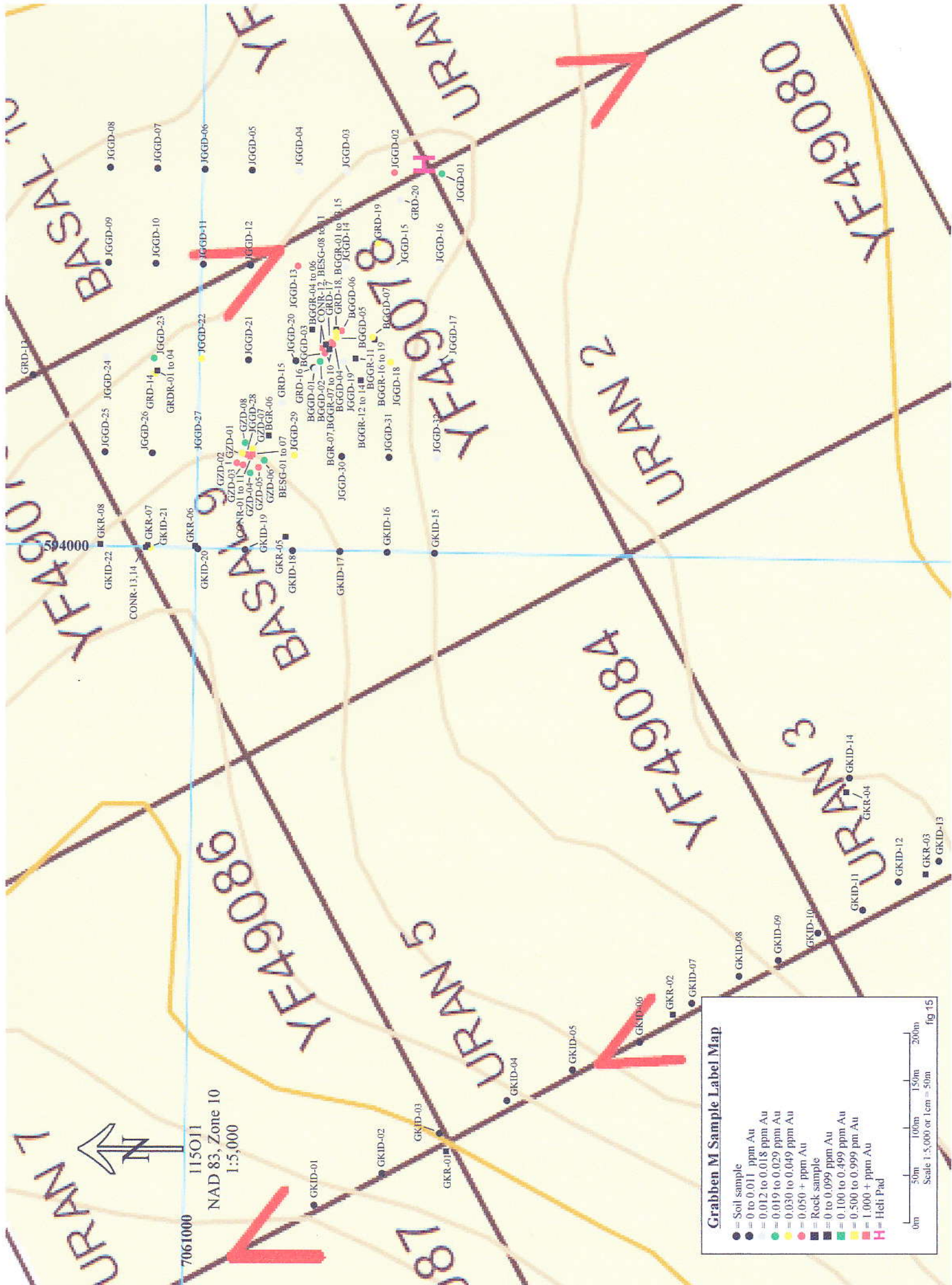
**Grabben N As Map**

- = Soil sample
- = 0 to 29.0 ppm As
- = 30.0 to 59.0 ppm As
- = 60.0 to 119.0 ppm As
- = 120.0 to 299.0 ppm As
- = 300.0 + ppm As
- = Rock sample
- = 0 to 99.0 ppm As
- = 100.0 to 999.0 ppm As
- = 1000.0 to 4999.0 ppm As
- = 5000.0 + ppm As
- H = Heli Pad

0m 100m 200m 300m 400m  
Scale 1:10,000 or 1cm = 100m fig 14

115011  
NAD 83, Zone 10  
1:10,000

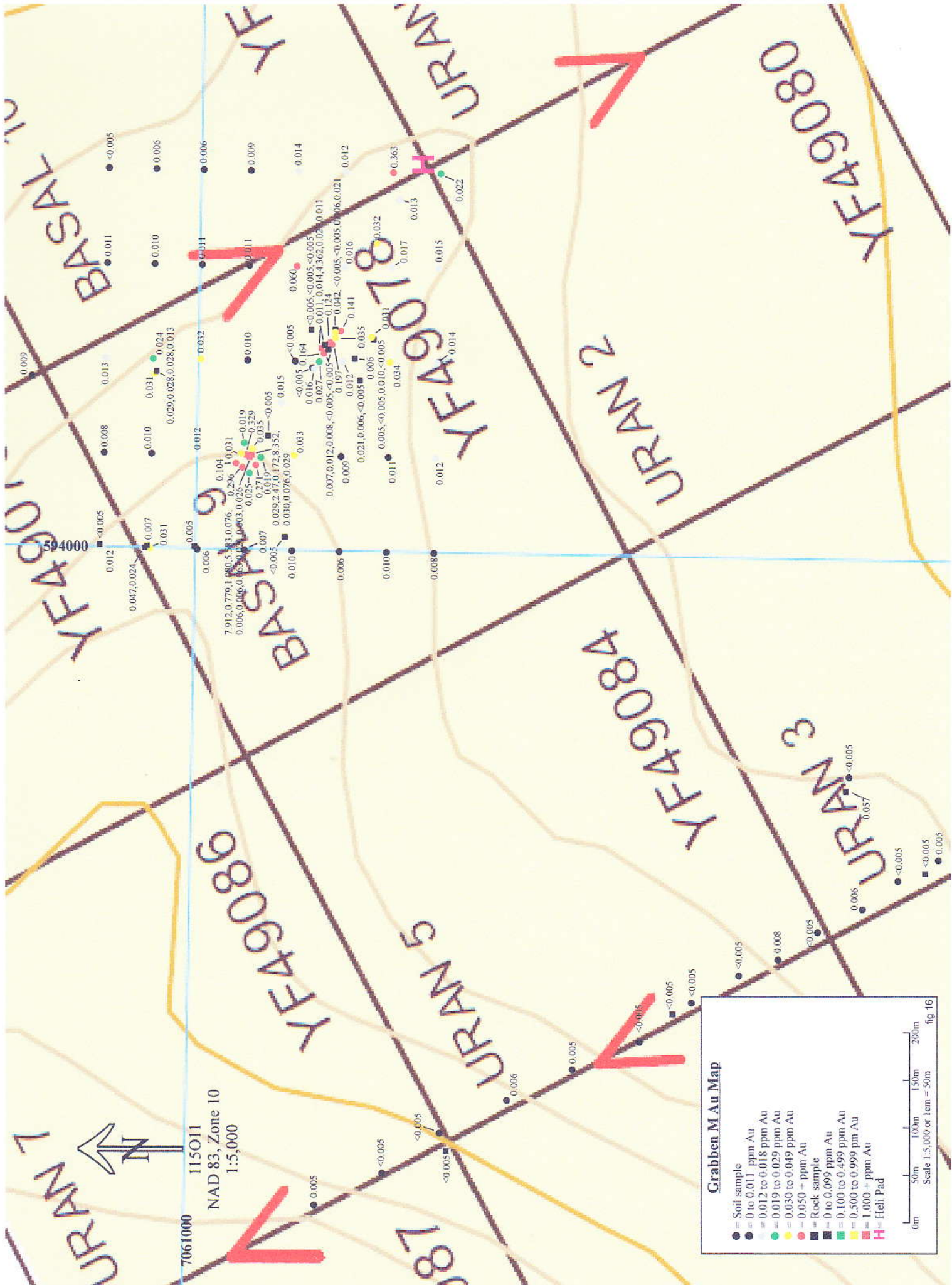




**Grabben M Sample Label Map**

- = Soil sample
- = 0 to 0.011 ppm Au
- = 0.012 to 0.018 ppm Au
- = 0.019 to 0.029 ppm Au
- = 0.030 to 0.049 ppm Au
- = 0.050 + ppm Au
- = Koek sample
- = 0 to 0.099 ppm Au
- = 0.100 to 0.499 ppm Au
- = 0.500 to 0.999 ppm Au
- = 1.000 + ppm Au
- H = Heli Pad

0m 50m 100m 150m 200m  
Scale 1:5,000 or 1cm = 50m  
fig 15



**Grabben M Au Map**

- = Soil sample
- = 0 to 0.011 ppm Au
- = 0.012 to 0.018 ppm Au
- = 0.019 to 0.029 ppm Au
- = 0.030 to 0.049 ppm Au
- = 0.050 + ppm Au
- = Rock sample
- = 0 to 0.099 ppm Au
- = 0.100 to 0.499 ppm Au
- = 0.500 to 0.999 ppm Au
- = 1.000 + ppm Au
- H = Heeli Pad

0m 50m 100m 150m 200m  
Scale 1:5,000 or 1cm = 50m

fig 16

URAN 7  
URAN 5  
URAN 3  
URAN 2  
URAN 1  
URAN 4  
URAN 6  
URAN 8  
URAN 9

BASAL 1  
BASAL 2  
BASAL 3

7061000  
115011  
NAD 83, Zone 10  
1:5,000

594000

YF49080

YF49084

YF49088

YF49082

YF49086

BASAL 1

URAN 1

URAN 2

URAN 3

URAN 4

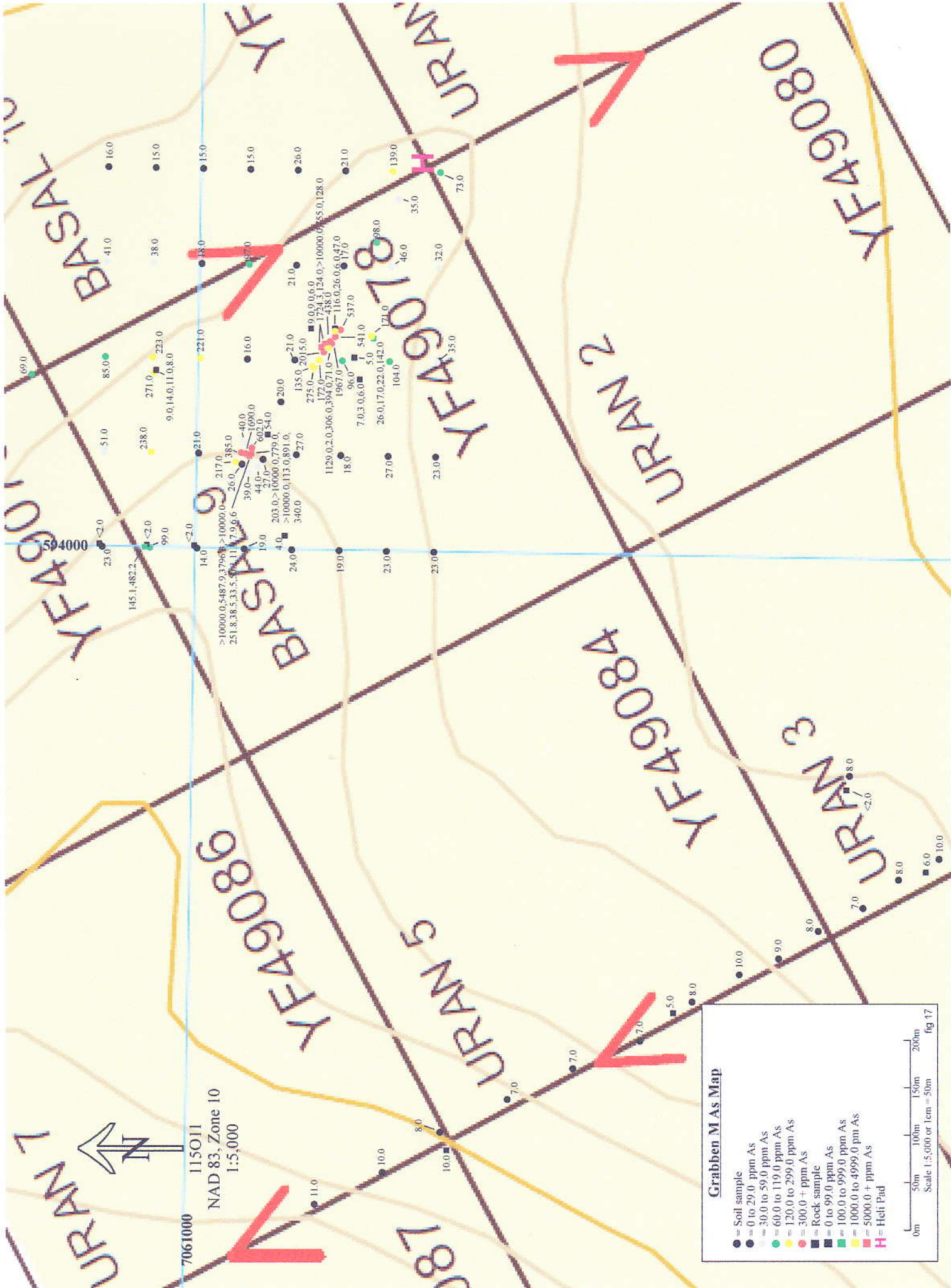
URAN 5

URAN 6

URAN 7

URAN 8

URAN 9



**Grabben M As Map**

- = Soil sample
- = 0 to 29.0 ppm As
- = 30.0 to 59.0 ppm As
- = 60.0 to 119.0 ppm As
- = 120.0 to 299.0 ppm As
- = 300.0 + ppm As
- = Rock sample
- = 0 to 99.0 ppm As
- = 100.0 to 999.0 ppm As
- = 1000.0 to 4999.0 ppm As
- = 5000.0 + ppm As
- H = Heli Pad

0m 50m 100m 150m 200m  
Scale 1:5,000 or 1cm = 50m

fig 17

Grabben Gold Rock Sample Table

Area	Sample	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab M	BESG-01	594097	7060945	0.65m channel finely weathered in place intermediate int	<0.3	0.029	203	21	8	<3	594
Grab M	BESG-02	594097	7060945	several limonitic gouge zones in intermediate int 0.65m	23.2	2.47	>10000	2145	146	3	174
Grab M	BESG-03	594097	7060945	1.5m as per but a bit blockier than BESG-01	0.8	0.172	779	78	12	<3	114
Grab M	BESG-04	594097	7060945	select grabs of the int with lim vns clay alteration and bleaching	12.7	8.352	>10000	2393	188	4	915
Grab M	BESG-05	594097	7060945	clay altered and bleached qtz biotite int with limonite	<0.3	0.03	113	20	<3	<3	45
Grab M	BESG-06	594097	7060945	as per BESG-01 fine fragments in-situ weathered 2.0m	<0.3	0.076	891	64	9	<3	46
Grab M	BESG-07	594097	7060945	coarser grained as above 1.2m	<0.3	0.029	340	18	4	<3	52
Grab M	BESG-08	594207	7060871	heavily siliceous polymictic congl with weak to mod limonite poss tr py rim clasts	1.8	0.014	124	45	<3	<3	5
Grab M	BESG-09	594207	7060871	limonitic vuggy qtz vein with clay and poss weathered py cubes	81.0	4.362	>10000	>10000	>2000	104	80
Grab M	BESG-10	594207	7060871	qtz with patchy limonite after py clay alt	4.4	0.027	755	225	16	<3	5
Grab M	BESG-11	594207	7060871	as per BESG-08 with qtz py-asy vein?	1.4	0.011	128	27	<3	<3	6
Grab M	BGGR-01	594234	7060857	lim polymictic congl matrix weakly clay alt and has black patches poss fine sulph	<0.3	<0.005	26	8	<3	<3	5
Grab M	BGGR-02	594234	7060857	qtz with lim as patches poss clay alt, poss fine diss black sulph	<0.3	<0.005	6	10	<3	<3	9
Grab M	BGGR-03	594234	7060857	as per BGGR-01 more clay and poss maganese stained	<0.3	0.006	47	32	<3	<3	9
Grab M	BGGR-04	594232	7060882	qtz with lim as patches weak clay alt? tr diss py minor maganese	<0.3	<0.005	9	9	<3	<3	8
Grab M	BGGR-05	594232	7060882	as above with more py lim and maganese lined fraes	<0.3	<0.005	9	7	<3	<3	10
Grab M	BGGR-06	594226	7060885	as per BGGR-04 more lim patches	<0.3	<0.005	6	6	<3	<3	6
Grab M	BGGR-07	594213	7060882	lim qtz peb congl matrix poss clay alt, tr fine diss black specks and patches (py?)	<0.3	0.012	2	3	<3	<3	5
Grab M	BGGR-08	594214	7060862	lim qtz pebble congl @ site of soil (GRD-17 poss clay alt poss tr diss py	1.1	0.008	306	699	7	<3	5
Grab M	BGGR-09	594214	7060862	as above	4.6	<0.005	394	358	6	<3	6
Grab M	BGGR-10	594214	7060862	lim congl poss py and some black patches in matrix weak clay alt	0.5	<0.005	71	102	<3	<3	2
Grab M	BGGR-11	594201	7060836	qtz with minor lim specks	<0.3	0.006	5	4	<3	<3	4
Grab M	BGGR-12	594178	7060830	qtz with lim on frac weak clay poss numerous black spees poss sulphs	<0.3	0.021	7	11	<3	<3	3
Grab M	BGGR-13	594178	7060830	qtz pebble/cobble congl with black spees patches and areas, lim on frac surfaces	<0.3	0.006	3	12	<3	<3	2
Grab M	BGGR-14	594178	7060830	congl with pervasive lim spees, matrix dominant numerous black spees and patches	<0.3	<0.005	6	27	<3	<3	2
Grab M	BGGR-15	594229	7060857	congl weakly lim on surfaces and in small patches black to grey in matrix	0.9	0.021	376	276	4	<3	7
Grab M	BGGR-16	594221	7060816	andesite with fine diss py tr fine diss py, historic trench	<0.3	0.005	26	7	<3	<3	4
Grab M	BGGR-17	594221	7060816	lim and frac qtz poss tr fine diss py, historic trench	<0.3	<0.005	17	16	<3	<3	3
Grab M	BGGR-18	594221	7060816	poss version of BGGR-16, historic trench	<0.3	0.01	22	9	<3	<3	4
Grab M	BGGR-19	594221	7060816	lim (frac coats and patches) poss clay alt qtz pebble congl tr diss py, 1920's trench	<0.3	<0.005	142	19	<3	<3	3
Grab M	BGR-06	594120	7060926	biotite andesite tr diss py minor lim	<0.3	<0.005	54	18	10	<3	53
Grab M	BGR-07	594211	7060863	lim siliceous and frac version of above (qtz congl) but more foreign clasts	1.8	0.007	1129	189	17	<3	9
Grab M	CONR-01	594097	7060945	0.65m channel insitu weathered intermediate int (Au by AQ201)	62.4	7911.7	>10000	2419.8	300.9	2.4	702
Grab M	CONR-02	594097	7060945	limonitic blocky material from 1' further down (Au by AQ201)	3.5	779	5487.9	278.7	45.5	0.5	160
Grab M	CONR-03	594097	7060945	1.0m channel of gouge zones and blocky stuff; same as BESG-02 (Au by AQ201)	4.4	1080.1	3796.3	498.4	57.2	1.1	135
Grab M	CONR-04	594097	7060945	re-sample of BESG-04 (Au by AQ201)	11.6	5583	>10000	2312.1	156.3	1.9	530
Grab M	CONR-05	594091	7060935	clay alt siliceous bleached intermediate int w lim on frac/patches (Au by AQ201)	<0.1	76.1	251.8	27	1.4	0.4	73
Grab M	CONR-06	594091	7060935	weak clay alt fine grained version of int with tr coarse diss py (Au by AQ201)	<0.1	5.5	38.5	10.8	0.7	0.2	74
Grab M	CONR-07	594091	7060935	hematized version of above (Au by AQ201)	<0.1	5.7	33.5	21	0.7	0.6	32
Grab M	CONR-08	594091	7060935	lim gouge and from trench small frags appear bleached and lim (Au by AQ201)	<0.1	62.9	50.1	26.4	1	0.4	228
Grab M	CONR-09	594089	7060951	dense black fine grained int with biotite vfg diss/patchy py to 1% (Au by AQ201)	<0.1	21.2	11.9	36.7	0.6	0.2	72
Grab M	CONR-10	594089	7060951	chaotic qtz biotite int; hematization patches and pervasive (Au by AQ201)	<0.1	2.5	7.9	26.2	0.4	0.3	45
Grab M	CONR-11	594089	7060951	rubble @ 30pes from trench from various spots of spoil piles (Au by AQ201)	0.1	25.5	6.6	41.1	1	0.2	52
Grab M	CONR-12	594217	7060866	congl with limonitic frac faces, poss remnant sulph vein (Au by AQ201)	2.5	10.7	1724.3	452.5	27.4	2.2	4

Area	Sample	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab M	CONR-13	594001	7061051	py dense qtz bio int silicite and @ 1.5% diss lime py in patches (Au by AQ201)	0.3	47.4	145.1	63.4	1.9	0.4	67
Grab M	CONR-14	594001	7061051	lim and frac qtz lim on fracs poss hairline qtz vn on fracs (Au by AQ201)	0.3	23.9	482.2	49.8	31.9	0.7	47
Grab M	Geo Note	594155	7060912	biotite andesite tr diss py minor lim							
Grab M	Geo Note	594098	7060915	biotite andesite tr diss py minor lim							
Grab M	Geo Note	594120	7060926	biotite andesite tr diss py minor lim							
Grab M	Geo Note	593842	7061782	biotite andesite tr diss py minor lim							
Grab M	Geo Note	593887	7061709	biotite andesite tr diss py minor lim							
Grab M	Geo Note	594285	7060862	large oldtimer trench 6m long x 2m wide x 1.5m deep							
Grab M	GKR-01	593395	7060731	andesite	<0.3	<0.005	10	14	<3	5	104
Grab M	GKR-02	593529	7060480	as above	<0.3	<0.005	5	14	<3	<3	83
Grab M	GKR-03	593679	7060213	as above	<0.3	<0.005	6	21	<3	<3	118
Grab M	GKR-04	593780	7060299	weathered polymitic qtz congl	<0.3	0.057	<2	7	<3	<3	5
Grab M	GKR-05	594016	7060909	fine grained biotite feldspar qtz int minor lim as weathered specs	<0.3	<0.005	4	29	<3	<3	69
Grab M	GKR-06	593998	7061000	as above weathered a bit more lim and tr diss py	<0.3	0.005	<2	16	<3	4	28
Grab M	GKR-07	593999	7061051	as above more weathered no obvious py	<0.3	0.007	<2	10	<3	<3	33
Grab M	GKR-08	594001	7061102	dioritic int weakly chlorite alt; lim on fracs biotite is weakly chlorite alt; in part	<0.3	<0.005	<2	13	<3	<3	56
Grab M	GRDR-01	594184	7061047	lim weakly chlorite alt fine grained qtz rich rock with minor biotite frag	<0.3	0.029	9	24	<3	4	95
Grab M	GRDR-02	594184	7061047	qtz biotite int lim on fracs	<0.3	0.028	14	36	<3	4	66
Grab M	GRDR-03	594184	7061047	qtz feldspar biotite int lim on frac tr diss py	<0.3	0.028	11	35	<3	<3	70
Grab M	GRDR-04	594184	7061047	dense black fine grained qtz rich rock with lim on frac poss py diss and along frac	<0.3	0.013	8	18	<3	<3	57
Grab M	zChopper	594408	7060774	nice shutdown style pad							
Grab N	BGR-01	593169	7063125	py to 3% silicite fine congl or poss some form of volcanic	0.4	<0.005	9	35	<3	<3	41
Grab N	BGR-02	593266	7062827	as above whiter poss due to clay alt and less py poss 0.25%	<0.3	<0.005	3	<3	<3	<3	7
Grab N	BGR-03	593353	7062691	grungy lim pitted qtz? Has rare biotite flakes or pieces of agillite	<0.3	0.011	15	9	<3	<3	17
Grab N	BGR-04	593353	7062691	sericitic qtz? With lim	<0.3	<0.005	23	<3	<3	<3	7
Grab N	BGR-05	593330	7062366	qtz pebble congl lim weathered out patches	0.6	<0.005	20	6	<3	<3	4
Grab N	CONR-15	593341	7061795	qtz lim vn cutting qtz w tr diss py; dark spots in qtz poss vfg sulph (Au by AQ201)	20.6	189.8	8484.9	196.1	98.3	113	35
Grab N	CONR-16	593341	7061795	qtz with a mm scale microcline qtz tr lim on qtz (Au by AQ201)	0.4	10.3	99	3.5	3.4	2.2	4
Grab N	CONR-17	593316	7061943	cherty unit poss vfg and rare faint qtz vns sub mm scale (Au by AQ201)	0.2	8.9	59.2	6.9	1.5	1.2	6
Grab N	CONR-18	593332	7061970	lim qtz cut by qtz lined fracs black patches in qtz/ztz poss tr py (Au by AQ201)	8.4	134.8	2350	46.8	13.1	2.4	15
Grab N	CONR-19	593332	7061970	qtz limonite goethite brx (Au by AQ201)	17.7	69	3614.9	107.4	55.4	28.8	39
Grab N	CONR-20	593300	7061775	brx lim int with lim on fracs (Au by AQ201)	0.3	2.7	31.1	10.9	7.3	5.5	15
Grab N	Geo Note	593388	7061851	large oldtimer trench 5m long x 1.5m wide x 0.8m deep							
Grab N	zChopper	593095	7061602	nice shutdown style pad							
Grab N	zChopper	592968	7063426	toe-in pad							
Grab S	KMR-01	597908	7056208	limey fine sed with carbonate on fracs	<0.3	<0.005	<2	<3	<3	<3	258
Grab S	KMR-02	597831	7056191	thin bedded graphitic qtz with minor lim vuggy fracs	<0.3	<0.005	5	<3	<3	<3	18
Grab S	MONR-01	599902	7055068	large limonitic qtz vn cutting weakly fe-carb alt rhy	<0.3	<0.005	13	4	<3	<3	<1
Grab S	MONR-02	599902	7055068	clay alt rhyo with qtz vn minor lim vn is smokey grey in part and may be vfg sulph	<0.3	<0.005	2	4	<3	<3	<1
Grab S	MONR-03	599905	7055081	fe carb alt rhyolite with qtz vn clay alt in part	<0.3	<0.005	20	14	<3	<3	1
Grab S	MONR-04	599910	7055224	qtz cemented rhyo brx with minor limonite fe-carb	<0.3	<0.005	2	9	<3	<3	1
Grab S	MONR-05	599172	7057224	heavily clay alt and brx gneiss or perhaps rhyolite	<0.3	0.013	<2	<3	<3	<3	3
Grab S	MONR-06	598325	7055929	qtz-cal stwrk in sediment black	<0.3	<0.005	<2	<3	<3	<3	67
Grab S	MONR-07	598325	7055929	qtz eyes 1% diss py possible conglomerate?	<0.3	0.005	14	3	<3	<3	154
Grab S	MONR-08	598462	7055141	brx and limonitic fine bedded sed to fine congl minor qtz vn and lim vns	<0.3	<0.005	13	<3	<3	<3	8

Area	Sample	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab S	MCNR-09	598462	7055141	as above	<0.3	0.008	38	<3	<3	<3	10

Grabben Gold Soil Sample Table

Area	Name	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab M	BGGD-01	594193	7060879		1.8	0.016	275	256	4	<3	10
Grab M	BGGD-02	594201	7060874		1	0.027	172	43	<3	<3	16
Grab M	BGGD-03	594209	7060869		12.6	0.164	2015	1638	52	4	38
Grab M	BGGD-04	594217	7060864		5.4	0.197	1967	1074	24	<3	20
Grab M	BGGD-05	594225	7060859		1.3	0.035	541	259	8	<3	19
Grab M	BGGD-06	594234	7060855		3.3	0.141	537	223	5	<3	16
Grab M	BGGD-07	594221	7060816		0.3	0.031	171	180	<3	<3	20
Grab M	GKID-01	593323	7060857		<0.3	0.005	11	6	<3	<3	42
Grab M	GKID-02	593353	7060788		0.3	<0.005	10	6	<3	<3	33
Grab M	GKID-03	593395	7060725		<0.3	<0.005	8	5	<3	<3	36
Grab M	GKID-04	593435	7060657		<0.3	0.006	7	<3	<3	<3	39
Grab M	GKID-05	593468	7060590		<0.3	0.005	7	<3	<3	<3	31
Grab M	GKID-06	593497	7060520		<0.3	<0.005	7	5	<3	<3	35
Grab M	GKID-07	593537	7060460		<0.3	<0.005	8	<3	<3	<3	35
Grab M	GKID-08	593565	7060416		<0.3	<0.005	10	13	<3	<3	36
Grab M	GKID-09	593584	7060371		<0.3	0.008	9	5	<3	<3	34
Grab M	GKID-10	593613	7060330		<0.3	<0.005	8	5	<3	<3	30
Grab M	GKID-11	593640	7060286		<0.3	0.006	7	4	<3	<3	29
Grab M	GKID-12	593670	7060248		<0.3	<0.005	8	4	<3	<3	33
Grab M	GKID-13	593690	7060202		<0.3	0.005	10	6	<3	<3	62
Grab M	GKID-14	593778	7060298		<0.3	<0.005	8	5	<3	<3	33
Grab M	GKID-15	594000	7060760		<0.3	0.008	23	8	<3	<3	50
Grab M	GKID-16	594000	7060800		0.3	0.01	23	9	<3	<3	41
Grab M	GKID-17	594000	7060849		<0.3	0.006	19	7	<3	<3	45
Grab M	GKID-18	594000	7060901		0.3	0.01	24	10	<3	<3	60
Grab M	GKID-19	594000	7060950		<0.3	0.007	19	19	<3	<3	74
Grab M	GKID-20	594000	7060999		<0.3	0.006	14	17	<3	<3	30
Grab M	GKID-21	594000	7061051		<0.3	0.031	99	20	<3	<3	30
Grab M	GKID-22	594000	7061100		<0.3	0.012	23	19	<3	<3	78
Grab M	GRD-13	594180	7061175	frozen	<0.3	0.009	69	23	<3	<3	28
Grab M	GRD-14	594184	7061047	frozen	0.6	0.031	271	61	<3	<3	180
Grab M	GRD-15	594155	7060912		<0.3	0.015	20	13	3	<3	24
Grab M	GRD-16	594192	7060880		0.4	<0.005	135	94	<3	<3	5
Grab M	GRD-17	594217	7060862		10.8	0.124	438	201	5	<3	12
Grab M	GRD-18	594229	7060857		1.6	0.042	116	90	<3	<3	15
Grab M	GRD-19	594322	7060814		<0.3	0.032	98	191	<3	<3	15
Grab M	GRD-20	594368	7060792		0.4	0.013	35	36	<3	<3	31
Grab M	GZD-01	594102	7060953		<0.3	0.031	385	85	23	<3	281
Grab M	GZD-02	594092	7060959		0.3	0.104	217	47	21	<3	244
Grab M	GZD-03	594090	7060952		<0.3	0.296	26	48	<3	<3	246
Grab M	GZD-04	594081	7060944		<0.3	0.025	39	29	<3	<3	442
Grab M	GZD-05	594089	7060935		<0.3	0.271	44	18	<3	<3	191
Grab M	GZD-06	594096	7060930		<0.3	0.019	27	28	<3	<3	150
Grab M	GZD-07	594107	7060942		<0.3	0.035	602	44	10	<3	82
Grab M	GZD-08	594112	7060950		<0.3	0.019	40	33	<3	<3	144
Grab M	JGGD-01	594402	7060752		<0.3	0.022	73	95	<3	<3	26
Grab M	JGGD-02	594401	7060802		0.6	0.363	139	160	3	<3	33
Grab M	JGGD-03	594402	7060852		<0.3	0.012	21	12	<3	<3	34
Grab M	JGGD-04	594401	7060900	wet B horizon	<0.3	0.014	26	31	<3	<3	36
Grab M	JGGD-05	594401	7060949		<0.3	0.009	15	16	<3	<3	38
Grab M	JGGD-06	594401	7060001	frozen B	<0.3	0.006	15	15	<3	<3	46
Grab M	JGGD-07	594399	7060049	frozen B	<0.3	0.006	15	24	<3	<3	41

Area	Name	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab M	JGGD-08	594399	7060103	frozen B	<0.3	<0.005	16	14	<3	<3	39
Grab M	JGGD-09	594300	7060100		0.4	0.011	41	36	<3	<3	60
Grab M	JGGD-10	594293	7060039	wet sample	0.4	0.01	38	36	<3	<3	73
Grab M	JGGD-11	594302	7061000	wet sample	<0.3	0.011	18	27	<3	<3	104
Grab M	JGGD-12	594304	7060949		0.3	0.011	97	112	<3	<3	94
Grab M	JGGD-13	594302	7060897		<0.3	0.06	21	30	<3	<3	33
Grab M	JGGD-14	594300	7060852		<0.3	0.016	17	20	<3	<3	14
Grab M	JGGD-15	594300	7060800		<0.3	0.017	46	23	<3	<3	27
Grab M	JGGD-16	594301	7060749		<0.3	0.015	32	21	<3	<3	32
Grab M	JGGD-17	594200	7060750		<0.3	0.014	35	39	<3	<3	27
Grab M	JGGD-18	594198	7060798		<0.3	0.034	104	95	<3	<3	16
Grab M	JGGD-19	594199	7060856		0.4	0.012	96	50	<3	<3	12
Grab M	JGGD-20	594197	7060902		<0.3	<0.005	21	12	<3	<3	13
Grab M	JGGD-21	594198	7060954		<0.3	0.01	16	8	<3	<3	23
Grab M	JGGD-22	594199	7060002		0.3	0.032	221	117	6	<3	505
Grab M	JGGD-23	594196	7060049		0.5	0.024	223	89	<3	<3	155
Grab M	JGGD-24	594199	7060098		<0.3	0.013	85	50	<3	<3	66
Grab M	JGGD-25	594100	7061098		<0.3	0.008	51	17	<3	<3	38
Grab M	JGGD-26	594101	7061050		1.2	0.01	238	157	7	<3	245
Grab M	JGGD-27	594102	7060999		<0.3	0.012	21	32	<3	<3	93
Grab M	JGGD-28	594099	7060948		0.7	0.329	1690	159	33	<3	312
Grab M	JGGD-29	594101	7060900		0.3	0.033	27	23	<3	<3	104
Grab M	JGGD-30	594103	7060845		<0.3	0.009	18	12	<3	<3	33
Grab M	JGGD-31	594104	7060802		<0.3	0.011	27	22	<3	<3	44
Grab M	JGGD-32	594102	7060751		<0.3	0.012	23	22	<3	<3	45
Grab M	zChopper	594408	7060774	nice shutdown style pad							
Grab N	COND-01	593346	7061791	Au by AQ201	0.3	14.7	203.1	8.7	6	3	18
Grab N	COND-02	593342	7061864	Au by AQ201	0.4	26.7	174.2	15.2	5.7	2.4	32
Grab N	COND-03	593315	7061878	Au by AQ201	0.3	28.5	151.8	12	4.5	3.2	21
Grab N	COND-04	593320	7061918	Au by AQ201	0.4	43.5	93.4	11.8	3.4	1.6	25
Grab N	COND-05	593317	7061944	Au by AQ201	1.1	73.6	481.5	19	12.9	4.8	42
Grab N	COND-06	593300	7061970	Au by AQ201	0.2	65.1	67.2	9.5	3.1	1.2	23
Grab N	COND-07	593334	7061968	Au by AQ201	3.6	83.1	625.9	47.6	12	7.2	45
Grab N	COND-08	593385	7061963	Au by AQ201	2.3	31.6	354.4	19.9	8.2	2.8	25
Grab N	COND-09	593381	7061889	Au by AQ201	0.3	26.4	162.4	13.6	5.8	2.5	49
Grab N	COND-10	593389	7061848	Au by AQ201, 1910 trench spill	0.4	47.1	260.9	15.1	7.3	2.9	28
Grab N	COND-11	593343	7061814	Au by AQ201	0.4	39.7	219.9	15.2	7.9	4.6	30
Grab N	COND-12	593302	7061774	Au by AQ201	0.6	8.6	53.2	17.9	4.9	5.7	27
Grab N	GKD-01	593075	7063295		<0.3	<0.005	32	22	<3	<3	16
Grab N	GKD-02	593117	7063160	rocky area	<0.3	<0.005	53	26	<3	<3	32
Grab N	GKD-03	593151	7063104		0.4	0.006	20	12	<3	<3	23
Grab N	GKD-04	593171	7063068		<0.3	0.005	34	23	<3	<3	20
Grab N	GKD-05	593244	7062820		<0.3	0.006	16	14	<3	<3	16
Grab N	GKD-06	593238	7062773		<0.3	<0.005	17	20	<3	<3	11
Grab N	GKD-07	593271	7062734		<0.3	0.007	25	14	<3	<3	20
Grab N	GRD-01	592972	7063431		<0.3	0.009	90	45	<3	<3	29
Grab N	GRD-02	593090	7063319	super rocky area	<0.3	0.006	35	42	<3	<3	21
Grab N	GRD-03	593134	7063180		0.4	0.006	47	27	<3	<3	36
Grab N	GRD-04	593170	7063132		0.3	0.008	41	19	<3	<3	46
Grab N	GRD-05	593270	7062832		<0.3	0.011	21	13	<3	<3	13
Grab N	GRD-06	593317	7062772		0.3	<0.005	20	32	11	<3	26
Grab N	GRD-07	593322	7062704		0.6	0.008	41	16	<3	<3	18
Grab N	GRD-08	593350	7062698	wet sample	0.7	0.008	73	27	<3	<3	18
Grab N	GRD-09	593363	7062682	frozen	0.9	0.033	97	16	<3	<3	19



Area	Name	Easting	Northing	Description	Ag	Au	As	Pb	Sb	Bi	Sr
Grab N	GRD-10	593489	7062431		0.4	0.02	66	11	<3	<3	24
Grab N	GRD-11	593582	7062265		0.6	0.01	105	8	<3	<3	26
Grab N	GRD-12	593840	7061778	frozen	<0.3	0.007	23	8	<3	<3	30
Grab N	zChopper	593095	7061602	nice shutdown style pad							
Grab N	zChopper	592968	7063426	toe-in pad							
Grab S	KMD-01	597984	7056247		0.3	0.037	6	18	0.6	<3	24
Grab S	KMD-02	597947	7056236		0.6	<0.005	5	7	<0.5	<3	20
Grab S	KMD-03	597901	7056209		<0.3	0.007	7	<3	<0.5	<3	119
Grab S	KMD-04	597842	7056212		<0.3	<0.005	<2	11	<0.5	<3	11
Grab S	KMD-05	597274	7056091		<0.3	0.008	7	8	<0.5	<3	12
Grab S	MOND-01	599900	7055085		0.4	<0.005	19	17	<3	<3	21
Grab S	MOND-02	599923	7055051		<0.3	0.005	10	13	<3	<3	15
Grab S	MOND-03	599928	7055033	rocky area	<0.3	<0.005	17	15	<3	<3	15

## Statement Of Qualifications

I Bernie Kreft directed and participated in the exploration work described herein.

I have 31 years prospecting experience in the Yukon and BC.

This report is based on fieldwork directed or conducted by the author, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed during the 2016 field season.

This report is based on fieldwork completed on the Grabben Gold Project

Respectfully submitted,

A handwritten signature in black ink, appearing to be the initials 'BK' with a stylized flourish.

---

Bernie Kreft

**Cost Statement**

Helicopter 5.1 hours exploration	= \$5,969.04
Helicopter 2.5 hours staking	= \$3,018.75
Assaying 116 soils and 80 rocks (30g Au fire assay, icp)	= \$6,089.06
Wages Kyle Eide 4 man days x \$300/day	= \$1,200.00
Wages Bernie Kreft 6 man days x \$350/day	= \$2,100.00
Wages Justin Kreft 6 man days x \$300/day	= \$1,800.00
Wages Jarret Kreft 6 man days x \$300/day	= \$1,800.00
Wages Andre Pedneault (staking 2 days wages and supplies)	= \$898.00
Wages Alex Axent-Hilton (staking 2 days wages)	= \$750.00
Food and Camp 22 man days \$100/day	= \$2,200.00
Truck Travel 2 round trips Whitehorse-Dawson + around Dawson 2150km x \$0.60/km	= \$1,290.00
Report Prep	= <u>\$2,200.00</u>
	TOTAL = \$29,314.85



**BUREAU VERITAS**  
MINERAL LABORATORIES  
Canada

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

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Submitted By:** Bernie Kreft  
**Receiving Lab:** Canada-Vancouver  
**Received:** June 13, 2016  
**Report Date:** June 17, 2016  
**Page:** 1 of 2

## CERTIFICATE OF ANALYSIS

VAN16000952.1

### CLIENT JOB INFORMATION

**Project:** None Given  
**Shipment ID:**  
**P.O. Number:**  
**Number of Samples:** 18

### SAMPLE DISPOSAL

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

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

**Invoice To:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9  
CANADA

**CC:**

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	18	Crush, split and pulverize 250 g rock to 200 mesh	30	Completed	VAN
FA430	18	Lead Collection Fire - Assay Fusion - AAS Finish	0.5	Completed	VAN
AO300	18	1:1:1 Aqua Regia digestion ICP-ES analysis		Completed	VAN
DRPLP	18	Warehouse handling / disposition of pulps			VAN
DRRJT	18	Warehouse handling / Disposition of reject			VAN

### ADDITIONAL COMMENTS



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



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

**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** June 17, 2016

**Page:** 2 of 2 **Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16000952.1

Method	Wgt	FA430	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P
Analyte	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Unit	MDL																				
BGR-01	0.73	<0.005	2	31	35	55	55	0.4	6	10	1266	4.38	9	9	41	<0.5	<3	<3	82	0.55	0.144
BGR-02	0.89	<0.005	<1	2	<3	9	<0.3	<1	<1	<1	34	0.40	3	2	7	<0.5	<3	<3	6	0.01	0.004
BGR-03	0.53	0.011	2	38	9	212	<0.3	48	38	970	5.11	15	15	8	17	<0.5	<3	<3	82	0.16	0.142
BGR-04	0.26	<0.005	<1	43	<3	91	<0.3	15	12	168	3.31	23	14	7	7	<0.5	<3	<3	19	0.03	0.020
BGR-05	0.42	<0.005	<1	6	6	5	0.6	<1	<1	60	0.54	20	<2	4	4	<0.5	<3	<3	2	<0.01	0.003
BGR-06	0.29	<0.005	3	15	18	96	<0.3	2	7	284	3.34	54	8	53	0.6	10	<3	<3	78	0.75	0.179
BGR-07	0.60	0.007	1	36	189	25	1.8	1	1	35	0.74	1129	7	9	3.8	17	<3	<3	5	0.02	0.006
MONR-01	1.18	<0.005	<1	5	4	9	<0.3	<1	<1	<1	33	0.62	13	3	<1	<0.5	<3	<3	<1	<0.01	<0.001
MONR-02	1.09	<0.005	<1	2	4	2	<0.3	<1	<1	24	0.14	2	24	2	<1	<0.5	<3	<3	<1	<0.01	0.002
MONR-03	0.89	<0.005	1	5	14	93	<0.3	<1	<1	131	3.05	20	33	1	<0.5	<3	<3	<3	<1	<0.01	0.005
MONR-04	0.39	<0.005	<1	4	9	13	<0.3	<1	<1	102	0.36	2	30	1	<0.5	<3	<3	<3	<1	<0.01	0.003
MONR-05	0.60	0.013	<1	3	<3	19	<0.3	<1	<1	36	0.24	<2	22	3	<0.5	<3	<3	<3	<1	<0.01	0.005
MONR-06	0.60	<0.005	<1	15	<3	18	<0.3	9	3	598	0.71	<2	22	<2	67	<0.5	<3	<3	23	9.71	0.005
MONR-07	0.86	0.005	8	5	3	21	<0.3	22	3	939	1.50	14	<2	154	0.7	<3	<3	37	30.79	0.031	
MONR-08	0.88	<0.005	1	38	<3	65	<0.3	27	5	147	1.96	13	<2	8	<0.5	<3	<3	17	0.08	0.038	
MONR-09	0.64	0.008	5	72	<3	179	<0.3	73	15	591	5.54	38	<2	10	0.7	<3	<3	27	0.02	0.104	
KMR-01	0.66	<0.005	<1	3	<3	3	<0.3	2	<1	749	0.19	<2	<2	258	<0.5	<3	<3	8	37.38	0.044	
KMR-02	0.42	<0.005	<1	15	<3	3	<0.3	<1	<1	51	0.62	5	<2	18	<0.5	<3	<3	4	0.18	0.011	

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval. Preliminary reports are unsigned and should be used for reference only.



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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

**Client:**

**Kreff, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** June 17, 2016

**Page:** 2 of 2 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16000952.1

Method	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Analyte	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
BGR-01	32	6	0.94	112	0.093	<20	1.52	0.08	0.15	<2	1.31	<1	<5	9	7
BGR-02	10	6	0.04	123	0.001	<20	0.35	<0.01	0.24	<2	<0.05	<1	<5	<5	<5
BGR-03	10	11	0.78	272	0.005	<20	1.89	0.03	0.15	<2	<0.05	<1	<5	9	8
BGR-04	23	10	0.05	211	0.002	<20	0.91	0.01	0.29	<2	<0.05	<1	<5	<5	<5
BGR-05	1	5	0.02	36	0.001	<20	0.19	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
BGR-06	26	10	0.63	674	0.202	<20	1.48	0.09	0.21	<2	0.10	<1	<5	9	7
BGR-07	16	5	0.02	127	0.001	<20	0.40	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
MONR-01	<1	3	<0.01	9	<0.001	<20	0.07	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
MONR-02	8	2	<0.01	13	<0.001	<20	0.31	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
MONR-03	14	2	<0.01	23	<0.001	<20	0.38	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
MONR-04	8	2	<0.01	47	<0.001	<20	0.31	<0.01	0.10	<2	<0.05	<1	<5	<5	<5
MONR-05	7	1	<0.01	54	0.003	<20	0.32	<0.01	0.13	<2	<0.05	<1	<5	<5	<5
MONR-06	3	6	0.70	85	0.001	<20	0.10	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
MONR-07	2	9	2.10	103	<0.001	<20	0.07	<0.01	0.02	<2	0.52	<1	<5	<5	<5
MONR-08	2	11	<0.01	144	0.002	<20	0.19	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
MONR-09	3	18	0.01	208	0.002	<20	0.27	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
KMR-01	1	4	0.22	142	<0.001	<20	0.01	<0.01	<0.01	<2	0.07	<1	<5	<5	<5
KMR-02	3	6	0.03	1598	0.002	<20	0.13	<0.01	0.09	<2	0.14	<1	<5	<5	<5

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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

Submitted By: Bernie Kreft  
Receiving Lab: Canada-Vancouver  
Received: July 04, 2016  
Report Date: July 14, 2016  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN16001083.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 31

### SAMPLE DISPOSAL

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

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

Invoice To: **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9  
CANADA

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
PRP70-250	Crush, split and pulverize 250 g rock to 200 mesh	31	30	Completed	VAN
FA430	Lead Collection Fire - Assay Fusion - AAS Finish	31	0.5	Completed	VAN
AQ300	1:1:1 Aqua Regia digestion ICP-ES analysis	31		Completed	VAN
DRPLP	Warehouse handling / disposition of pulps	31			VAN
DRRJT	Warehouse handling / Disposition of reject	24			VAN

### ADDITIONAL COMMENTS



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



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Client: **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

Project: None Given  
Report Date: July 14, 2016

Page: 2 of 3

Part: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN16001083.1

Method	WGHT	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	kg	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P														
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%														
MDL		0.01	0.005	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001														
BGGR-01	Rock	0.25	<0.005	<1	2	8	56	<0.3	7	157	0.83	26	7	5	<0.5	<3	<3	12	0.04	0.014														
BGGR-02	Rock	0.12	<0.005	<1	7	10	182	<0.3	9	207	0.89	6	4	9	<0.5	<3	<3	15	0.05	0.009														
BGGR-03	Rock	0.41	0.006	<1	3	32	78	<0.3	4	<1	38	0.71	47	9	<0.5	<3	<3	5	0.02	0.007														
BGGR-04	Rock	0.37	<0.005	<1	2	9	18	<0.3	11	5	134	1.42	9	5	<0.5	<3	<3	18	0.05	0.008														
BGGR-05	Rock	0.13	<0.005	<1	3	7	11	<0.3	12	9	166	1.11	9	6	<0.5	<3	<3	11	0.07	0.008														
BGGR-06	Rock	0.36	<0.005	<1	<1	6	11	<0.3	12	6	176	1.46	6	5	<0.5	<3	<3	13	0.04	0.007														
BGGR-07	Rock	0.63	0.012	<1	1	3	10	<0.3	3	148	0.42	2	6	5	<0.5	<3	<3	5	0.03	0.007														
BGGR-08	Rock	0.41	0.008	2	6	699	18	1.1	1	<1	47	0.95	306	3	5	<0.5	7	3	<0.01	0.007														
BGGR-09	Rock	0.32	<0.005	<1	25	358	31	4.6	3	<1	40	1.46	394	3	6	0.7	6	4	<0.01	0.008														
BGGR-10	Rock	0.26	<0.005	1	13	102	13	0.5	1	<1	36	0.60	71	7	2	<0.5	<3	5	<0.01	0.007														
BGGR-11	Rock	0.49	0.006	<1	1	4	5	<0.3	2	<1	34	0.34	5	21	4	<0.5	<3	1	0.01	0.003														
BGGR-12	Rock	0.40	0.021	<1	2	11	7	<0.3	3	<1	36	0.52	7	6	3	<0.5	<3	7	0.01	0.005														
BGGR-13	Rock	0.78	0.006	<1	<1	12	3	<0.3	<1	31	0.31	3	3	2	<0.5	<3	4	0.01	<0.001															
BGGR-14	Rock	0.60	<0.005	<1	2	27	11	<0.3	2	<1	39	0.49	6	5	2	<0.5	<3	5	<0.01	0.004														
BGGR-15	Rock	0.42	0.021	2	21	276	64	0.9	4	1	47	0.90	376	5	7	2.1	4	5	0.01	0.009														
BGGR-16	Rock	0.41	0.005	<1	5	7	9	<0.3	2	<1	27	0.42	26	11	4	<0.5	<3	5	0.01	0.004														
BGGR-17	Rock	0.27	<0.005	<1	3	16	11	<0.3	2	<1	40	0.59	17	6	3	<0.5	<3	15	<0.01	0.004														
BGGR-18	Rock	0.35	0.010	<1	2	9	6	<0.3	1	<1	9	0.18	22	28	4	<0.5	<3	7	0.01	0.009														
BGGR-19	Rock	0.35	<0.005	2	7	19	22	<0.3	3	2	46	1.22	142	3	3	<0.5	<3	4	0.01	0.009														
GKR-01	Rock	0.44	<0.005	1	10	14	68	<0.3	11	9	544	3.41	10	9	104	<0.5	<3	80	1.06	0.172														
GKR-02	Rock	0.56	<0.005	<1	10	14	76	<0.3	12	9	467	3.41	5	9	83	<0.5	<3	79	0.95	0.165														
GKR-03	Rock	0.57	<0.005	1	8	21	82	<0.3	7	8	511	3.54	6	9	118	<0.5	<3	72	1.13	0.173														
GKR-04	Rock	0.69	0.057	<1	2	7	9	<0.3	4	2	198	0.40	<2	5	5	<0.5	<3	8	0.01	0.001														
GKR-05	Rock	0.56	<0.005	2	11	29	32	<0.3	5	4	359	2.54	4	9	69	<0.5	<3	56	0.82	0.162														
GKR-06	Rock	0.47	0.005	55	14	16	44	<0.3	5	5	546	3.16	<2	11	28	<0.5	<3	4	63	0.29	0.125													
GKR-07	Rock	0.65	0.007	2	3	10	47	<0.3	1	2	352	1.90	<2	10	33	<0.5	<3	49	0.41	0.132														
GKR-08	Rock	0.55	<0.005	3	1	13	57	<0.3	3	8	637	2.99	<2	11	56	<0.5	<3	68	0.59	0.134														
GRDR-01	Rock	0.10	0.029	1	15	24	29	<0.3	<1	2	178	2.18	9	10	95	<0.5	<3	4	42	0.50	0.138													
GRDR-02	Rock	0.08	0.028	2	13	36	42	<0.3	1	4	234	2.39	14	10	66	<0.5	<3	4	68	0.44	0.155													
GRDR-03	Rock	0.11	0.028	2	13	35	49	<0.3	<1	4	237	2.69	11	11	70	<0.5	<3	67	0.42	0.153														





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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** July 14, 2016

**Page:** 2 of 3 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001083.1

Method	Analyte	Unit	MDL	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
BGGR-01	Rock			20	14	0.06	119	0.002	<20	0.52	0.02	0.23	<2	<0.05	<1	<5	<5	<5
BGGR-02	Rock			13	14	0.08	170	0.002	<20	0.91	0.07	0.25	<2	<0.05	<1	<5	<5	<5
BGGR-03	Rock			17	6	0.05	122	<0.001	<20	0.46	<0.01	0.24	<2	0.07	<1	<5	<5	<5
BGGR-04	Rock			9	18	0.29	83	0.002	<20	0.80	0.05	0.14	<2	<0.05	<1	<5	<5	<5
BGGR-05	Rock			12	13	0.13	74	0.001	<20	0.65	0.06	0.14	<2	<0.05	<1	<5	<5	<5
BGGR-06	Rock			5	19	0.22	66	0.001	<20	0.68	0.04	0.14	<2	<0.05	<1	<5	<5	<5
BGGR-07	Rock			16	6	0.04	97	<0.001	<20	0.36	0.03	0.15	<2	<0.05	<1	<5	<5	<5
BGGR-08	Rock			10	6	0.02	83	<0.001	<20	0.29	<0.01	0.20	<2	<0.05	<1	<5	<5	<5
BGGR-09	Rock			8	7	0.02	57	<0.001	<20	0.25	<0.01	0.18	<2	<0.05	<1	<5	<5	<5
BGGR-10	Rock			13	5	0.03	82	0.001	<20	0.34	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
BGGR-11	Rock			19	3	0.02	94	0.001	<20	0.45	0.02	0.30	<2	<0.05	<1	<5	<5	<5
BGGR-12	Rock			34	7	0.07	139	0.003	<20	0.61	<0.01	0.34	<2	<0.05	<1	<5	<5	<5
BGGR-13	Rock			10	4	0.03	57	0.002	<20	0.30	<0.01	0.17	<2	<0.05	<1	<5	<5	<5
BGGR-14	Rock			16	6	0.05	74	0.002	<20	0.38	<0.01	0.26	<2	<0.05	<1	<5	<5	<5
BGGR-15	Rock			17	5	0.02	84	0.002	<20	0.32	<0.01	0.23	<2	<0.05	<1	<5	<5	<5
BGGR-16	Rock			27	5	0.01	133	0.001	<20	0.46	0.01	0.33	<2	<0.05	<1	<5	<5	<5
BGGR-17	Rock			18	10	0.03	136	0.003	<20	0.56	0.01	0.33	<2	<0.05	<1	<5	<5	<5
BGGR-18	Rock			73	4	0.01	174	<0.001	<20	0.62	0.02	0.44	<2	<0.05	<1	<5	<5	<5
BGGR-19	Rock			9	6	0.02	44	<0.001	<20	0.28	<0.01	0.14	<2	<0.05	<1	<5	<5	<5
GKR-01	Rock			25	10	0.54	488	0.266	<20	1.50	0.12	0.28	<2	<0.05	<1	<5	<5	6
GKR-02	Rock			25	8	0.65	658	0.246	<20	1.50	0.11	0.21	<2	<0.05	<1	<5	6	6
GKR-03	Rock			27	8	0.54	535	0.251	<20	1.27	0.16	0.23	<2	<0.05	<1	<5	<5	7
GKR-04	Rock			3	5	<0.01	70	0.009	<20	0.17	<0.01	0.03	<2	<0.05	<1	<5	<5	<5
GKR-05	Rock			26	7	0.50	203	0.144	<20	1.24	0.11	0.12	<2	<0.05	<1	<5	<5	<5
GKR-06	Rock			28	7	0.65	189	0.015	<20	1.32	0.08	0.15	<2	<0.05	<1	<5	7	5
GKR-07	Rock			22	3	0.30	305	0.076	<20	0.87	0.08	0.07	<2	<0.05	<1	<5	<5	<5
GKR-08	Rock			23	7	0.49	1012	0.255	<20	1.43	0.06	0.38	<2	<0.05	<1	<5	<5	<5
GRDR-01	Rock			16	4	0.14	723	0.079	<20	0.54	0.09	0.14	<2	0.31	<1	<5	<5	<5
GRDR-02	Rock			29	5	0.35	557	0.125	<20	0.70	0.10	0.34	<2	0.35	<1	<5	<5	<5
GRDR-03	Rock			27	4	0.36	593	0.123	<20	0.73	0.10	0.36	<2	0.47	<1	<5	<5	<5

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:**

None Given  
July 14, 2016

**Report Date:**

Page: 3 of 3

Part: 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001083.1

Method	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300					
WGHT																									
Wgt																									
Unit	kg																								
MDL	0.01	0.005	1	1	3	1	3	1	18	162	<0.3	10	11	331	2.96	8	11	57	1.6	<3	<3	78	0.61	0.166	
Rock	0.11	0.013	3	21	1	1	1	1	1	1	1	1	1	2	2	2	2	2	1	0.5	3	3	1	0.01	0.001

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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** July 14, 2016

**Page:** 3 of 3 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001083.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
La	ppm	1	1	0.01	20	0.01	0.70	0.11	0.22	<2	0.24	<1	<5	<5	<5	<5	<5	<5
Cr	ppm	10	0.38	2.14	0.086	<20	0.086	0.11	0.22	<2	0.24	<1	<5	<5	<5	<5	<5	<5
Mg	%	0.01	0.38	2.14	0.086	<20	0.086	0.11	0.22	<2	0.24	<1	<5	<5	<5	<5	<5	<5
Ba	ppm	1	0.01	20	0.01	0.70	0.11	0.22	<2	0.24	<1	<5	<5	<5	<5	<5	<5	<5
Ti	%	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Al	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Na	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
K	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W	ppm	2	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1
S	%	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Hg	ppm	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1
Tl	ppm	5	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1
Ga	ppm	5	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1
Sc	ppm	5	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1	0.05	1

GRDR-04 Rock

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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft  
Receiving Lab: Canada-Vancouver  
Received: September 01, 2016  
Report Date: September 16, 2016  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN16001540.3

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 32

### SAMPLE DISPOSAL

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

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

Invoice To: **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
PRP70-250	Crush, split and pulverize 250 g rock to 200 mesh	32	30	Completed	VAN
FA430	Lead Collection Fire - Assay Fusion - AAS Finish	32	0.5	Completed	VAN
AQ300	1:1:1 Aqua Regia digestion ICP-ES analysis	21		Completed	VAN
DRPLP	Warehouse handling / disposition of pulps	32			VAN
DRRJT	Warehouse handling / Disposition of reject	29			VAN
AQ374-X	1:1:1 Aqua Regia digestion ICP-ES analysis	3	0.4	Completed	VAN

### ADDITIONAL COMMENTS

Version 3 - AQ374 included.



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**BUREAU VERITAS**  
MINERAL LABORATORIES  
Canada

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

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given

**Report Date:** September 16, 2016

**Page:** 2 of 3

**Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001540.3

Method Analyte Unit	WGT		FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
	kg	MDL	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	
VNBR-01	0.80	<1	0.005	<1	14	<3	36	<0.3	13	6	208	3.18	122	2	6	<0.5	22	<3	33	0.04	0.013
VNBR-02	1.08	2		2	8	18	80	<0.3	11	8	730	2.47	89	16	33	<0.5	<3	<3	24	0.50	0.060
VNBR-03	0.45	<1		<1	4	12	13	2.7	4	3	107	2.33	9322	<2	17	<0.5	234	<3	4	0.14	0.007
VNBR-04	0.56	<1		<1	6	<3	10	7.7	4	2	43	0.74	106	<2	2	<0.5	10	<3	3	0.01	0.002
VNBR-05	0.30	<1		<1	10	9	15	3.7	6	2	40	1.31	464	<2	4	<0.5	26	<3	4	<0.01	0.004
GR16-01	0.37																				
GR16-02	1.84																				
BABR-01	1.51	<1		<1	14	16	40	1.7	3	3	167	2.01	455	7	10	<0.5	30	<3	13	0.03	0.023
BABR-02	1.04	<1		<1	7	<3	8	9.1	2	2	54	1.08	3450	<2	28	<0.5	>2000	<3	4	0.08	0.013
BABR-03	1.57	1		1	12	25	46	0.6	3	3	190	1.76	250	11	6	<0.5	23	<3	9	0.05	0.029
BABR-04	0.99	<1		<1	19	11	15	1.1	<1	1	26	1.02	296	7	2	<0.5	56	<3	2	<0.01	0.008
BABR-05	0.88	<1		<1	13	29	56	1.2	4	4	490	2.09	174	11	14	<0.5	11	<3	6	0.91	0.062
BESG-01	1.22	0.029		2	15	21	77	<0.3	5	7	453	3.35	203	7	594	<0.5	8	<3	62	0.97	0.175
BESG-02	1.18	2.470		7	78	2145	324	23.2	5	11	539	5.48	>10000	7	174	6.9	146	3	53	1.05	0.168
BESG-03	1.12	0.172		2	17	78	96	0.8	3	6	395	3.16	779	8	114	0.7	12	<3	64	0.76	0.173
BESG-04	0.40	8.352		5	97	2393	117	12.7	<1	2	149	4.98	>10000	6	915	7.9	188	4	5	0.88	0.092
BESG-05	0.34	0.030		2	11	20	28	<0.3	3	6	304	2.30	113	9	45	<0.5	<3	<3	55	0.62	0.149
BESG-06	0.46	0.076		2	18	64	75	<0.3	4	9	328	3.20	891	8	46	0.8	9	<3	68	0.63	0.175
BESG-07	0.84	0.029		2	13	18	54	<0.3	5	9	379	3.67	340	8	52	<0.5	4	<3	81	0.61	0.177
BESG-08	0.69	0.014		<1	7	45	18	1.8	1	<1	20	0.32	124	5	5	<0.5	<3	<3	3	0.01	0.005
BESG-09	0.06	4.362		22	671	>10000	308	>100	3	1	80	10.07	>10000	6	80	43.1	>2000	104	6	0.08	0.093
BESG-10	0.12	0.027		2	27	225	67	4.4	4	1	56	1.06	755	3	5	1.4	16	<3	4	0.13	0.006
BESG-11	0.18	0.011		<1	6	27	16	1.4	2	<1	32	0.42	128	11	6	<0.5	<3	<3	4	0.01	0.005
VJBR-01	0.46																				
VJBR-02	0.57																				
VJBR-03	0.54																				
VJBR-04	1.00																				
VJBR-05	0.55																				
BSC-01	0.41																				
BSC-02	0.72																				

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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** September 16, 2016

**Page:** 2 of 3 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001540.3

Method Analyte Unit MDL	AQ300	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Pb	Ag	As	Sb
VNBR-01	Rock	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.01	2	0.01	0.001
VNBR-02	Rock	6	0.27	26	0.002	<20	0.74	0.01	0.09	<2	<0.05	<1	<5	<5	7				
VNBR-03	Rock	27	0.35	301	0.020	<20	0.98	0.05	0.29	<2	<0.05	<1	<5	<5	<5				
VNBR-04	Rock	2	0.04	218	<0.001	<20	0.11	<0.01	0.06	<2	1.03	<1	<5	<5	<5				
VNBR-05	Rock	2	<0.01	11	<0.001	<20	0.08	<0.01	0.05	<2	<0.05	<1	<5	<5	<5				
GR16-01	Rock	2	<0.01	19	<0.001	<20	0.07	<0.01	0.03	<2	<0.05	<1	<5	<5	<5				
GR16-02	Rock																		
BABR-01	Rock	20	0.05	64	0.002	<20	0.35	<0.01	0.17	<2	<0.05	<1	<5	<5	<5				
BABR-02	Rock	6	<0.01	81	<0.001	<20	0.14	<0.01	0.11	<2	1.00	<1	<5	<5	<5				
BABR-03	Rock	22	0.05	66	0.001	<20	0.34	<0.01	0.20	3	<0.05	<1	<5	<5	<5				
BABR-04	Rock	13	0.01	36	<0.001	<20	0.19	<0.01	0.15	<2	<0.05	<1	<5	<5	<5				
BABR-05	Rock	22	0.04	125	<0.001	<20	0.40	<0.01	0.17	<2	<0.05	<1	<5	<5	<5				
BESG-01	Rock	27	0.53	588	0.134	<20	1.85	0.06	0.13	<2	<0.05	<1	<5	<5	7				
BESG-02	Rock	34	0.36	452	0.033	<20	1.41	0.03	0.18	<2	<0.05	<1	<5	<5	8	0.21	24	1.56	0.023
BESG-03	Rock	21	0.54	473	0.142	<20	1.50	0.06	0.21	<2	<0.05	<1	<5	<5	7				
BESG-04	Rock	25	0.04	231	<0.001	<20	0.41	0.01	0.22	<2	<0.05	<1	<5	<5	<5	0.25	13	4.14	0.032
BESG-05	Rock	19	0.36	224	0.138	<20	1.24	0.07	0.16	<2	<0.05	<1	<5	<5	5				
BESG-06	Rock	23	0.39	269	0.101	<20	1.35	0.03	0.18	<2	<0.05	<1	<5	<5	7				
BESG-07	Rock	21	0.59	336	0.122	<20	1.67	0.04	0.19	<2	<0.05	<1	<5	7	8				
BESG-08	Rock	17	0.02	62	<0.001	<20	0.23	<0.01	0.18	<2	<0.05	<1	<5	<5	<5				
BESG-09	Rock	17	0.02	493	0.001	<20	0.45	<0.01	0.13	<2	0.24	<1	5	<5	<5	1.32	810	7.59	0.381
BESG-10	Rock	5	0.03	50	<0.001	<20	0.33	<0.01	0.15	<2	0.08	<1	<5	<5	<5				
BESG-11	Rock	19	0.03	58	0.001	<20	0.29	<0.01	0.18	<2	<0.05	<1	<5	<5	<5				
VJBR-01	Rock																		
VJBR-02	Rock																		
VJBR-03	Rock																		
VJBR-04	Rock																		
VJBR-05	Rock																		
BSC-01	Rock																		
BSC-02	Rock																		

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

**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft  
Receiving Lab: Canada-Vancouver  
Received: September 26, 2016  
Report Date: September 28, 2016  
Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001764.1

**CLIENT JOB INFORMATION**

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 10

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250 AQ201	10	Crush, split and pulverize 250 g rock to 200 mesh 1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN VAN

**SAMPLE DISPOSAL**

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

**ADDITIONAL COMMENTS**

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

Invoice To: **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9  
Canada

CC:



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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** September 28, 2016

**Page:** 2 of 2 **Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001764.1

Method	Wght	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Analyte	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Unit																				
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
CONR-01	0.42	6.2	118.7	2419.8	234	62.4	1.5	3.5	147	5.67	>10000	7911.7	9.2	702	16.7	300.9	2.4	14	1.20	0.119
CONR-03	2.09	4.7	42.6	498.4	246	4.4	4.8	9.2	533	4.08	3796.3	1080.1	10.2	135	3.7	57.2	1.1	62	0.83	0.175
CONR-13	0.35	2.0	16.4	63.4	63	0.3	2.5	6.0	311	2.48	145.1	47.4	10.7	67	0.9	1.9	0.4	37	0.56	0.122
CONR-14	0.54	2.4	14.4	49.8	29	0.3	2.8	1.3	168	2.67	482.2	23.9	14.6	47	0.4	31.9	0.7	40	0.10	0.118
CONR-15	0.18	2.0	33.1	196.1	6	20.6	1.7	1.5	106	3.34	8484.9	189.8	5.5	35	0.3	98.3	113.1	7	0.02	0.115
CONR-16	0.11	0.5	12.9	3.5	4	0.4	1.1	1.5	78	0.65	99.0	10.3	3.1	4	<0.1	3.4	2.2	4	<0.01	0.008
CONR-17	0.69	3.0	8.4	6.9	3	0.2	1.3	0.4	28	0.44	59.2	8.9	11.9	6	<0.1	1.5	1.2	3	<0.01	0.007
CONR-18	0.51	2.9	28.0	46.8	3	8.4	1.0	0.3	35	1.49	2350.0	134.8	3.6	15	<0.1	13.1	2.4	3	<0.01	0.022
CONR-19	0.73	7.5	138.8	107.4	18	17.7	4.1	1.3	44	6.88	3614.9	68.0	20.3	39	0.2	55.4	28.8	29	0.01	0.154
CONR-20	0.54	2.4	121.0	10.9	55	0.3	7.5	6.8	182	10.26	31.1	2.7	6.2	15	0.2	7.3	5.5	57	0.03	0.136

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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** September 28, 2016

**Page:** 2 of 2 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001764.1

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te					
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CONR-01	Rock			44	2	0.06	657	0.001	6	0.61	0.014	0.19	0.2	<0.01	2.5	0.5	<0.05	2	1.2	<0.2					
CONR-03	Rock			34	9	0.51	423	0.073	2	1.52	0.047	0.18	0.1	<0.01	8.0	0.2	<0.05	6	<0.5	<0.2					
CONR-13	Rock			29	4	0.22	165	0.081	<1	0.84	0.135	0.11	0.9	<0.01	3.8	0.1	0.56	4	0.8	<0.2					
CONR-14	Rock			38	16	0.24	250	0.056	4	0.98	0.108	0.40	0.4	<0.01	6.0	0.4	0.32	4	1.0	<0.2					
CONR-15	Rock			11	6	0.02	253	0.004	2	0.27	0.017	0.45	0.5	0.02	1.5	2.3	0.61	2	5.8	4.7					
CONR-16	Rock			10	4	0.01	111	0.001	1	0.25	0.005	0.16	<0.1	<0.01	0.4	0.2	<0.05	<1	<0.5	0.2					
CONR-17	Rock			36	5	0.04	203	0.001	2	0.50	0.007	0.36	0.2	<0.01	0.9	0.5	<0.05	1	<0.5	<0.2					
CONR-18	Rock			4	4	0.02	95	0.001	1	0.17	0.007	0.16	0.2	<0.01	1.0	0.3	0.12	<1	0.9	0.3					
CONR-19	Rock			43	5	0.04	262	0.002	1	0.77	0.015	0.43	0.2	<0.01	2.3	0.7	0.25	2	3.1	0.6					
CONR-20	Rock			22	7	0.03	263	0.004	6	0.80	0.005	0.29	0.1	<0.01	3.9	0.3	0.12	3	0.6	<0.2					

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MINERAL LABORATORIES  
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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft  
Receiving Lab: Canada-Vancouver  
Received: September 26, 2016  
Report Date: November 14, 2016  
Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001762.2

**CLIENT JOB INFORMATION**

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 11

**SAMPLE DISPOSAL**

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

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

Invoice To: **Kreft, Bernie**  
**1 Locust Place**  
**Whitehorse Yukon Y1A 5G9**  
**Canada**

CC:

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	11	Crush, split and pulverize 250 g rock to 200 mesh	15	Completed	VAN
AQ201	11	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
FA530-Ag	1	Lead collection fire assay fusion - Grav finish		Completed	VAN
EN002	1	Environmental disposal charge-Fire assay lead waste		Completed	VAN

**ADDITIONAL COMMENTS**

Version 2 : FA530-Ag included.



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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** November 14, 2016

Page: 2 of 2      Part: 1 of 2

# CERTIFICATE OF ANALYSIS

VAN16001762.2

Method	Wght	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Analyte	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
CONR-02	0.87	3.0	43.4	278.7	180	3.5	2.9	4.7	264	3.36	5487.9	779.0	9.4	160	3.9	45.5	0.5	57	0.72	0.165
CONR-04	0.26	4.3	81.9	2312.1	106	11.6	1.0	2.5	122	4.52	>10000	5583.0	9.1	530	8.1	156.3	1.9	7	0.78	0.101
CONR-05	0.32	3.2	28.9	27.0	28	<0.1	2.4	4.8	208	2.35	251.8	76.1	10.5	73	0.3	1.4	0.4	64	0.57	0.150
CONR-06	0.15	1.0	14.2	10.8	40	<0.1	10.8	8.7	434	3.94	38.5	5.5	10.1	74	0.2	0.7	0.2	81	0.67	0.188
CONR-07	0.08	2.8	23.2	21.0	31	<0.1	6.6	7.7	298	4.43	33.5	5.7	8.7	32	0.2	0.7	0.6	64	0.49	0.201
CONR-08	0.79	5.5	48.6	26.4	58	<0.1	5.6	10.2	520	4.82	50.1	62.9	9.8	228	0.4	1.0	0.4	81	0.82	0.156
CONR-09	0.62	2.4	13.9	36.7	89	<0.1	4.1	8.0	310	2.22	11.9	21.2	11.6	72	1.6	0.6	0.2	54	0.62	0.136
CONR-10	0.13	1.7	8.8	26.2	32	<0.1	2.4	2.7	306	1.93	7.9	2.5	8.6	45	0.2	0.4	0.3	30	0.59	0.121
CONR-11	0.92	3.0	14.2	41.1	61	0.1	2.3	7.6	321	2.09	6.6	25.5	12.3	52	0.2	1.0	0.2	57	0.54	0.143
CONR-12	0.18	4.8	68.5	452.5	374	2.5	8.9	3.7	39	4.11	1724.3	10.7	9.9	4	13.5	27.4	2.2	10	0.02	0.024
[REDACTED]	1.55	1.0	1967.4	>10000	469	[REDACTED]	0.6	0.4	23	1.00	312.1	[REDACTED]	<0.1	2	24.3	1383.3	0.4	<2	<0.01	0.001

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Bureau Veritas Commodities Canada Ltd.

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

**Client:**

**Kref, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:**

None Given

**Report Date:**

November 14, 2016

**Page:**

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**Part:**

2 of 2

CERTIFICATE OF ANALYSIS

VAN16001762.2

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	FA530		
				La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag	
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	gm/ft
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	20	
CONR-02	Rock			27	8	0.39	491	0.049	3	1.33	0.049	0.21	<0.1	<0.01	8.2	0.2	<0.05	6	<0.5	<0.2		
CONR-04	Rock			30	3	0.05	2515	<0.001	5	0.63	0.012	0.25	0.1	<0.01	1.6	0.7	<0.05	2	0.6	<0.2		
CONR-05	Rock			39	6	0.33	210	0.089	<1	1.55	0.067	0.15	0.2	<0.01	7.0	0.2	<0.05	7	<0.5	<0.2		
CONR-06	Rock			25	9	0.76	130	0.094	1	1.39	0.048	0.12	0.8	<0.01	3.2	<0.1	<0.05	8	<0.5	<0.2		
CONR-07	Rock			20	10	0.72	74	0.086	<1	1.04	0.046	0.07	1.0	<0.01	3.3	<0.1	<0.05	7	<0.5	<0.2		
CONR-08	Rock			38	10	0.66	358	0.101	<1	2.40	0.068	0.25	0.1	<0.01	8.5	0.3	<0.05	9	<0.5	<0.2		
CONR-09	Rock			30	3	0.29	294	0.088	<1	0.99	0.128	0.19	0.4	<0.01	3.7	0.3	0.15	5	<0.5	<0.2		
CONR-10	Rock			22	5	0.29	174	0.097	<1	0.90	0.108	0.14	0.6	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2		
CONR-11	Rock			32	4	0.24	218	0.091	<1	1.20	0.084	0.14	0.3	<0.01	5.5	0.2	<0.05	5	<0.5	<0.2		
CONR-12	Rock			6	8	0.03	72	0.001	3	0.45	0.006	0.20	<0.1	<0.01	1.6	0.2	<0.05	2	<0.5	<0.2		
ZIR-01	Rock			<1	3	<0.01	33	<0.001	<1	0.03	0.002	0.01	<0.1	4.83	0.3	<0.1	0.23	<1	0.7	1.0		

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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Submitted By:** Bernie Kreft  
**Receiving Lab:** Canada-Vancouver  
**Received:** June 13, 2016  
**Report Date:** June 15, 2016  
**Page:** 1 of 3

**CERTIFICATE OF ANALYSIS**

VAN16000951.1

**CLIENT JOB INFORMATION**

**Project:** None Given  
**Shipment ID:**  
**P.O. Number:** 37  
**Number of Samples:** 37

**SAMPLE DISPOSAL**  
STOR-PLP Store After 90 days Invoice for Storage  
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Procedure Code	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
Dry at 60C	Dry at 60C	35			
SS80	Dry at 60C sieve 100g to -80 mesh	35			VAN
SVRJT	Save all or part of Soil Reject	35			VAN
FA430	Lead Collection Fire - Assay Fusion - AAS Finish	35	30	Completed	VAN
AQ300	1:1:1 Aqua Regia digestion ICP-ES analysis	35	0.5	Completed	VAN
DRPLP	Warehouse handling / disposition of pulps	35			VAN
DRRJT	Warehouse handling / Disposition of reject	35			VAN

**ADDITIONAL COMMENTS**

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

**Invoice To:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9  
CANADA

**CC:**



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**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** June 15, 2016

**Page:** 2 of 3

**Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16000951.1

Method	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Analyte	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
Unit																				
MDL	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
GRD-01	0.009	1	19	45	55	<0.3	17	8	227	2.49	90	6	29	<0.5	<3	<3	44	0.32	0.055	21
GRD-02	0.006	1	22	42	60	<0.3	17	7	386	2.30	35	6	21	<0.5	<3	<3	44	0.16	0.039	17
GRD-03	0.006	2	19	27	79	0.4	17	8	370	3.23	47	6	36	<0.5	<3	<3	58	0.19	0.039	19
GRD-04	0.008	1	24	19	77	0.3	19	9	761	2.86	41	6	46	<0.5	<3	<3	43	0.39	0.053	21
GRD-05	0.011	<1	17	13	49	<0.3	17	7	223	2.83	21	5	13	<0.5	<3	<3	47	0.10	0.022	12
GRD-06	<0.005	3	18	32	71	0.3	9	6	341	4.49	20	7	26	<0.5	11	<3	52	0.06	0.091	29
GRD-07	0.008	1	20	16	59	0.6	16	7	291	2.92	41	5	18	<0.5	<3	<3	49	0.09	0.050	20
GRD-08	0.008	1	21	27	61	0.7	12	6	191	2.74	73	8	19	<0.5	<3	<3	44	0.09	0.039	23
GRD-09	0.033	1	72	16	52	0.9	14	5	92	2.53	97	9	18	<0.5	<3	<3	39	0.16	0.051	23
GRD-10	0.020	32	66	11	58	0.4	16	8	199	2.65	66	7	24	<0.5	<3	<3	52	0.23	0.040	18
GRD-11	0.010	9	68	8	56	0.6	14	8	372	2.90	105	5	26	<0.5	<3	<3	56	0.16	0.036	16
GRD-12	0.007	<1	12	8	49	<0.3	11	7	397	2.25	23	5	30	<0.5	<3	<3	42	0.27	0.041	19
GRD-13	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
GRB-13	0.009	1	23	23	60	<0.3	14	7	258	2.26	69	2	28	<0.5	<3	<3	43	0.24	0.052	13
GRD-14	0.031	3	36	61	172	0.6	12	11	613	4.43	271	8	180	0.7	<3	<3	73	0.34	0.076	20
GRD-15	0.015	4	36	13	110	<0.3	27	38	3112	5.11	20	5	24	0.8	3	<3	58	0.13	0.135	27
GRD-16	<0.005	1	19	94	377	0.4	18	7	135	1.50	135	8	5	0.7	<3	<3	14	0.03	0.013	14
GRD-17	0.124	2	40	201	135	0.8	25	9	210	2.97	438	6	12	1.2	5	<3	53	0.10	0.024	13
GRD-18	0.042	2	26	90	85	1.6	24	9	217	2.90	116	6	15	0.5	<3	<3	60	0.12	0.019	13
GRD-19	0.032	1	21	191	54	<0.3	16	9	214	2.35	98	6	15	<0.5	<3	<3	45	0.13	0.014	18
GRD-20	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
GRB-20	0.013	<1	31	36	73	0.4	26	9	329	2.73	35	5	31	<0.5	<3	<3	54	0.42	0.034	18
MOND-01	<0.005	<1	23	17	62	0.4	18	8	251	2.90	19	31	21	<0.5	<3	<3	59	0.24	0.025	99
MOND-02	0.005	1	11	13	62	<0.3	14	8	1012	2.32	10	5	15	<0.5	<3	<3	56	0.16	0.028	14
MOND-03	<0.005	<1	20	15	53	<0.3	19	7	318	2.48	17	9	15	<0.5	<3	<3	57	0.15	0.016	15
KMD-01	0.037	4	70	18	162	0.3	37	6	246	3.97	6	7	24	0.6	<3	<3	207	0.38	0.066	24
KMD-02	<0.005	4	94	7	200	0.6	58	11	175	3.59	5	7	20	<0.5	<3	<3	74	0.04	0.039	20
KMD-03	0.007	<1	15	<3	36	<0.3	17	6	716	1.40	7	<2	119	<0.5	<3	<3	33	16.83	0.084	6
KMD-04	<0.005	1	29	11	55	<0.3	53	13	670	3.77	<2	15	11	<0.5	<3	<3	126	0.31	0.093	53
KMD-05	0.008	<1	32	8	59	<0.3	21	9	274	3.03	7	14	12	<0.5	<3	<3	68	0.14	0.018	28

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** June 15, 2016

**Page:** 2 of 3 **Page:** 2 of 2

# CERTIFICATE OF ANALYSIS

VAN16000951.1

Method Analyte Unit	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	S %	Hg ppm	Tl ppm	Ga ppm	Sc ppm
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
GRD-01 Soil	21	0.36	240	0.040	<20	1.37	<0.01	0.06	<2	<0.05	<1	<5	6	<5
GRD-02 Soil	19	0.29	160	0.047	<20	1.64	<0.01	0.09	<2	<0.05	<1	<5	7	<5
GRD-03 Soil	24	0.49	232	0.031	<20	2.09	<0.01	0.07	<2	<0.05	<1	<5	8	<5
GRD-04 Soil	19	0.31	230	0.027	<20	1.61	0.01	0.11	<2	<0.05	<1	<5	11	<5
GRD-05 Soil	28	0.42	190	0.034	<20	1.80	<0.01	0.07	<2	<0.05	<1	<5	6	<5
GRD-06 Soil	14	0.18	101	0.016	<20	0.96	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
GRD-07 Soil	19	0.34	215	0.010	<20	1.64	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
GRD-08 Soil	18	0.30	180	0.021	<20	1.50	<0.01	0.09	<2	<0.05	<1	<5	5	<5
GRD-09 Soil	22	0.32	355	0.027	<20	1.96	<0.01	0.08	<2	<0.05	<1	<5	5	5
GRD-10 Soil	24	0.42	213	0.047	<20	1.73	<0.01	0.06	<2	<0.05	<1	<5	6	<5
GRD-11 Soil	23	0.43	277	0.057	<20	1.56	<0.01	0.09	<2	<0.05	<1	<5	<5	<5
GRD-12 Soil	20	0.38	287	0.039	<20	1.47	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
GRD-13 Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
GRB-13 Soil	23	0.34	217	0.047	<20	1.49	0.01	0.05	<2	<0.05	<1	<5	6	<5
GRD-14 Soil	21	0.50	276	0.082	<20	1.97	0.02	0.08	<2	0.06	<1	<5	7	6
GRD-15 Soil	28	0.37	348	0.019	<20	2.64	<0.01	0.14	<2	<0.05	<1	<5	10	<5
GRD-16 Soil	10	0.19	80	0.001	<20	1.73	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
GRD-17 Soil	29	0.45	168	0.026	<20	2.33	<0.01	0.10	<2	<0.05	<1	<5	6	<5
GRD-18 Soil	35	0.50	240	0.050	<20	2.28	<0.01	0.07	<2	<0.05	<1	<5	7	<5
GRD-19 Soil	25	0.36	196	0.039	<20	1.51	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
GRD-20 Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
GRB-20 Soil	32	0.49	443	0.070	<20	1.78	0.01	0.06	<2	<0.05	<1	<5	7	6
MOND-01 Soil	38	0.63	221	0.071	<20	2.04	<0.01	0.11	<2	<0.05	<1	<5	6	6
MOND-02 Soil	23	0.31	312	0.042	<20	1.65	<0.01	0.07	<2	<0.05	<1	<5	6	<5
MOND-03 Soil	31	0.42	225	0.049	<20	1.81	<0.01	0.05	<2	<0.05	<1	<5	6	<5
KMD-01 Soil	101	1.02	1138	0.128	<20	1.96	<0.01	0.58	<2	0.10	<1	<5	10	11
KMD-02 Soil	36	0.63	423	0.074	<20	1.45	<0.01	0.39	<2	<0.05	<1	<5	<5	<5
KMD-03 Soil	14	0.39	158	0.021	<20	0.71	0.01	0.04	<2	<0.05	<1	<5	<5	<5
KMD-04 Soil	69	1.31	783	0.130	<20	2.38	<0.01	0.86	<2	<0.05	<1	<5	10	8
KMD-05 Soil	32	0.46	197	0.051	<20	1.43	<0.01	0.16	<2	<0.05	<1	<5	8	10

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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** June 15, 2016

**Page:** 3 of 3 **Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN160000951.1

Method	Analyte	Unit	MDL	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
				Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La						
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm						
GKD-01	Soil			<0.005	2	10	22	72	<0.3	14	8	383	3.86	32	<2	16	<0.5	<3	<3	75	0.11	0.085	13						
GKD-02	Soil			<0.005	2	20	26	66	<0.3	17	12	712	3.29	53	4	32	<0.5	<3	<3	53	0.21	0.055	21						
GKD-03	Soil			0.006	<1	27	12	64	0.4	23	11	264	3.09	20	6	23	<0.5	<3	<3	56	0.17	0.019	27						
GKD-04	Soil			0.005	1	14	23	58	<0.3	15	6	251	2.65	34	4	20	<0.5	<3	<3	47	0.13	0.031	19						
GKD-05	Soil			0.006	<1	35	14	51	<0.3	19	7	192	2.69	16	6	16	<0.5	<3	<3	47	0.11	0.014	25						
GKD-06	Soil			<0.005	3	28	20	95	<0.3	43	19	665	4.03	17	16	11	<0.5	<3	<3	31	0.08	0.023	29						
GKD-07	Soil			0.007	1	17	14	54	<0.3	19	10	480	3.08	25	6	20	<0.5	<3	<3	56	0.19	0.039	33						

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PHONE (604) 253-3158

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:**

None Given

**Report Date:**

June 15, 2016

**Page:**

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**Part:**

2 of 2

**CERTIFICATE OF ANALYSIS**

**VAN16000951.1**

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc					
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm					
MDL	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5					
GKD-01	23	0.38	163	0.057	<20	2.16	<0.01	0.07	<2	<0.05	<1	<5	8	<5					
GKD-02	22	0.41	198	0.034	<20	1.92	<0.01	0.08	<2	<0.05	<1	<5	7	<5					
GKD-03	32	0.49	251	0.067	<20	2.00	<0.01	0.06	<2	<0.05	<1	<5	<5	8					
GKD-04	19	0.30	180	0.035	<20	1.54	<0.01	0.06	<2	<0.05	<1	<5	<5	<5					
GKD-05	29	0.40	177	0.053	<20	1.55	<0.01	0.07	<2	<0.05	<1	<5	<5	6					
GKD-06	16	0.18	152	0.004	<20	1.46	<0.01	0.09	<2	<0.05	<1	<5	<5	<5					
GKD-07	22	0.57	270	0.014	<20	1.87	<0.01	0.05	<2	<0.05	<1	<5	6	5					

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

**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Submitted By:** Bernie Kreft  
**Receiving Lab:** Canada-Vancouver  
**Received:** July 04, 2016  
**Report Date:** July 12, 2016  
**Page:** 1 of 4

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

**CLIENT JOB INFORMATION**

**Project:** None Given  
**Shipment ID:**  
**P.O. Number**  
**Number of Samples:** 61

**SAMPLE DISPOSAL**

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

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

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	61	Dry at 60C			VAN
SS80	61	Dry at 60C sieve 100g to -80 mesh			VAN
SVRJT	61	Save all or part of Soil Reject			VAN
FA430	61	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
AQ300	61	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
DRPLP	61	Warehouse handling / disposition of pulps			VAN
DRRJT	61	Warehouse handling / Disposition of reject			VAN

**ADDITIONAL COMMENTS**

**Invoice To:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9  
CANADA

**CC:**



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Canada

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PHONE (604) 253-3158

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**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given

**Report Date:** July 12, 2016

**Page:** 2 of 4

**Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

Method Analyte Unit MDL	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Au ppm 0.005	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm						
GKID-01	0.005	<1	15	6	60	<0.3	18	8	416	2.88	11	4	42	<0.5	<3	<3	66	0.32	0.035	15						
GKID-02	<0.005	1	13	6	81	0.3	15	7	868	2.70	10	3	33	<0.5	<3	<3	64	0.35	0.066	11						
GKID-03	<0.005	<1	17	5	50	<0.3	16	7	328	2.40	8	3	36	<0.5	<3	<3	53	0.33	0.035	16						
GKID-04	0.006	<1	19	<3	49	<0.3	17	7	360	2.33	7	4	39	<0.5	<3	<3	50	0.41	0.053	17						
GKID-05	0.005	<1	13	<3	46	<0.3	15	6	222	2.35	7	4	31	<0.5	<3	<3	51	0.33	0.054	14						
GKID-06	<0.005	<1	15	5	44	<0.3	15	6	247	2.30	7	4	35	<0.5	<3	<3	51	0.39	0.043	15						
GKID-07	<0.005	<1	13	<3	45	<0.3	14	5	238	2.39	8	5	35	<0.5	<3	<3	54	0.38	0.052	14						
GKID-08	<0.005	<1	16	13	54	<0.3	16	8	323	2.77	10	6	36	<0.5	<3	<3	61	0.43	0.080	16						
GKID-09	0.008	<1	20	5	41	<0.3	16	7	296	2.33	9	4	34	<0.5	<3	<3	50	0.44	0.056	16						
GKID-10	<0.005	<1	17	5	39	<0.3	14	6	217	2.24	8	4	30	<0.5	<3	<3	48	0.32	0.036	18						
GKID-11	0.006	<1	16	4	39	<0.3	15	6	189	2.09	7	5	29	<0.5	<3	<3	43	0.36	0.057	14						
GKID-12	<0.005	<1	22	4	44	<0.3	17	7	291	2.38	8	4	33	<0.5	<3	<3	50	0.39	0.052	18						
GKID-13	0.005	4	16	6	50	<0.3	15	8	347	2.90	10	6	62	<0.5	<3	<3	61	0.55	0.078	23						
GKID-14	<0.005	<1	18	5	46	<0.3	15	7	311	2.25	8	6	33	<0.5	<3	<3	49	0.43	0.067	18						
GKID-15	0.008	1	24	8	54	<0.3	19	7	281	2.73	23	5	50	<0.5	<3	<3	52	0.45	0.054	21						
GKID-16	0.010	1	18	9	55	0.3	16	9	249	2.64	23	5	41	<0.5	<3	<3	49	0.30	0.041	18						
GKID-17	0.006	2	22	7	59	<0.3	23	11	791	3.08	19	4	45	<0.5	<3	<3	70	0.36	0.034	14						
GKID-18	0.010	2	14	10	58	<0.3	17	9	365	3.34	24	5	60	<0.5	<3	<3	70	0.38	0.055	10						
GKID-19	0.007	2	17	19	64	<0.3	18	9	327	3.28	19	5	74	<0.5	<3	<3	63	0.47	0.029	11						
GKID-20	0.006	2	12	17	53	<0.3	14	7	398	3.36	14	2	30	<0.5	<3	<3	79	0.19	0.048	10						
GKID-21	0.031	3	17	20	72	<0.3	11	8	356	3.87	99	5	30	<0.5	<3	<3	71	0.10	0.057	12						
GKID-22	0.012	1	19	19	58	<0.3	14	7	221	2.67	23	5	78	<0.5	<3	<3	56	0.30	0.044	18						
BGGD-01	0.016	2	21	256	231	1.8	11	6	174	2.33	275	7	10	0.7	4	<3	34	0.04	0.033	14						
BGGD-02	0.027	2	15	43	130	1.0	18	7	276	2.52	172	6	16	1.0	<3	<3	48	0.12	0.030	12						
BGGD-03	0.164	3	52	1638	182	12.6	8	5	150	2.82	2015	6	38	2.4	52	4	34	0.10	0.056	13						
BGGD-04	0.197	7	62	1074	214	5.4	9	6	161	2.78	1967	9	20	4.7	24	<3	24	0.05	0.037	14						
BGGD-05	0.035	2	23	259	219	1.3	20	9	288	3.27	541	6	19	2.8	8	<3	56	0.15	0.056	14						
BGGD-06	0.141	3	24	223	173	3.3	20	9	182	3.01	537	8	16	1.0	5	<3	53	0.12	0.028	15						
BGGD-07	0.031	3	17	180	140	0.3	13	6	70	2.36	171	13	20	<0.5	<3	<3	23	0.16	0.027	20						
JGGD-01	0.022	<1	35	95	104	<0.3	22	8	248	2.74	73	8	26	<0.5	<3	<3	51	0.27	0.019	23						

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** July 12, 2016

**Page:** 2 of 4 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

Method	Analyte	Unit	MDL	AQ300	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
				%	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
GKID-01	Soil			30	0.58	433	0.081	<20	2.03	<0.01	0.05	0.05	<2	<0.05	<1	<5	<5	<5
GKID-02	Soil			25	0.41	380	0.063	<20	1.84	<0.01	0.09	0.09	<2	<0.05	<1	<5	<5	<5
GKID-03	Soil			26	0.51	439	0.074	<20	1.64	<0.01	0.05	0.05	<2	<0.05	<1	<5	<5	<5
GKID-04	Soil			26	0.49	445	0.078	<20	1.46	0.01	0.05	0.05	<2	<0.05	<1	<5	<5	<5
GKID-05	Soil			24	0.49	323	0.085	<20	1.46	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-06	Soil			23	0.48	425	0.089	<20	1.47	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-07	Soil			19	0.47	327	0.105	<20	1.44	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-08	Soil			24	0.48	352	0.118	<20	1.45	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-09	Soil			23	0.44	356	0.076	<20	1.35	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-10	Soil			23	0.44	382	0.076	<20	1.40	<0.01	0.03	0.03	<2	<0.05	<1	<5	<5	5
GKID-11	Soil			22	0.44	321	0.063	<20	1.30	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-12	Soil			25	0.47	394	0.076	<20	1.51	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	5
GKID-13	Soil			21	0.46	268	0.104	<20	1.64	0.02	0.04	0.04	<2	<0.05	<1	<5	5	6
GKID-14	Soil			22	0.43	318	0.070	<20	1.46	0.01	0.04	0.04	<2	<0.05	<1	<5	<5	<5
GKID-15	Soil			24	0.53	384	0.074	<20	1.74	0.01	0.05	0.05	<2	<0.05	<1	<5	<5	<5
GKID-16	Soil			24	0.50	336	0.066	<20	1.58	0.01	0.05	0.05	<2	<0.05	<1	<5	<5	<5
GKID-17	Soil			33	0.55	489	0.054	<20	2.24	<0.01	0.05	0.05	<2	<0.05	<1	<5	6	5
GKID-18	Soil			27	0.62	358	0.064	<20	2.30	<0.01	0.07	0.07	<2	<0.05	<1	<5	6	<5
GKID-19	Soil			28	0.54	306	0.043	<20	2.36	<0.01	0.04	0.04	<2	<0.05	<1	<5	5	<5
GKID-20	Soil			25	0.40	196	0.053	<20	1.74	<0.01	0.05	0.05	<2	<0.05	<1	<5	7	<5
GKID-21	Soil			23	0.31	141	0.048	<20	2.17	<0.01	0.05	0.05	<2	<0.05	<1	<5	8	<5
GKID-22	Soil			22	0.47	250	0.070	<20	1.71	0.01	0.05	0.05	<2	<0.05	<1	<5	5	<5
BGGD-01	Soil			13	0.15	121	0.006	<20	1.50	<0.01	0.07	0.07	<2	<0.05	<1	<5	<5	<5
BGGD-02	Soil			23	0.38	211	0.019	<20	1.87	<0.01	0.07	0.07	<2	<0.05	<1	<5	<5	<5
BGGD-03	Soil			10	0.12	217	0.009	<20	1.07	0.01	0.09	0.09	<2	0.14	<1	<5	<5	<5
BGGD-04	Soil			10	0.10	146	0.008	<20	0.87	<0.01	0.10	0.10	<2	0.07	<1	<5	<5	<5
BGGD-05	Soil			25	0.37	240	0.023	<20	2.05	<0.01	0.12	0.12	<2	<0.05	<1	<5	6	<5
BGGD-06	Soil			27	0.40	197	0.024	<20	2.09	<0.01	0.09	0.09	<2	<0.05	<1	<5	<5	<5
BGGD-07	Soil			13	0.22	136	0.004	<20	1.36	<0.01	0.11	0.11	<2	<0.05	<1	<5	<5	<5
JGGD-01	Soil			26	0.36	330	0.052	<20	1.46	<0.01	0.08	0.08	<2	<0.05	<1	<5	<5	6

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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** July 12, 2016

**Page:** 3 of 4 **Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

Method	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Analyte	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
Unit	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1
MDL																				
JGGD-02	Soil	0.363	1	35	160	95	0.6	28	9	343	2.99	139	7	33	<0.5	3	<3	0.40	0.042	20
JGGD-03	Soil	0.012	1	35	12	89	<0.3	30	11	365	2.81	21	5	34	<0.5	<3	<3	0.46	0.072	16
JGGD-04	Soil	0.014	1	28	31	79	<0.3	22	9	381	2.83	26	6	36	<0.5	<3	53	0.43	0.057	20
JGGD-05	Soil	0.009	1	28	16	70	<0.3	25	10	488	2.65	15	6	38	<0.5	<3	46	0.56	0.061	17
JGGD-06	Soil	0.006	1	29	15	74	<0.3	24	9	435	2.66	15	5	46	<0.5	<3	49	0.66	0.063	16
JGGD-07	Soil	0.006	1	24	24	71	<0.3	18	10	423	2.43	15	4	41	<0.5	<3	47	0.41	0.052	15
JGGD-08	Soil	<0.005	1	21	14	72	<0.3	20	10	495	2.70	16	4	39	<0.5	<3	52	0.50	0.077	15
JGGD-09	Soil	0.011	2	33	36	110	0.4	23	11	604	2.98	41	6	60	0.6	<3	53	0.53	0.071	19
JGGD-10	Soil	0.010	1	26	36	81	0.4	15	9	219	2.91	38	6	73	<0.5	<3	63	0.42	0.053	22
JGGD-11	Soil	0.011	1	23	27	74	<0.3	17	8	233	2.65	18	7	104	<0.5	<3	54	0.28	0.025	22
JGGD-12	Soil	0.011	2	31	112	202	0.3	20	7	354	4.07	97	10	94	<0.5	<3	69	0.45	0.071	28
JGGD-13	Soil	0.060	3	13	30	48	<0.3	16	8	195	2.51	21	8	33	<0.5	<3	42	0.21	0.023	20
JGGD-14	Soil	0.016	2	16	20	42	<0.3	20	8	155	2.63	17	5	14	<0.5	<3	51	0.13	0.016	15
JGGD-15	Soil	0.017	<1	29	23	56	<0.3	24	10	333	2.58	46	7	27	<0.5	<3	49	0.35	0.030	18
JGGD-16	Soil	0.015	<1	31	21	58	<0.3	26	10	406	2.64	32	4	32	<0.5	<3	51	0.45	0.041	16
JGGD-17	Soil	0.014	1	23	38	60	<0.3	19	8	270	2.48	35	5	27	<0.5	<3	44	0.32	0.053	16
JGGD-18	Soil	0.034	2	10	95	81	<0.3	13	6	131	1.80	104	9	16	<0.5	<3	24	0.14	0.026	20
JGGD-19	Soil	0.012	1	16	50	111	0.4	21	8	287	2.58	96	5	12	<0.5	<3	50	0.09	0.024	12
JGGD-20	Soil	<0.005	2	8	12	46	<0.3	16	11	1142	2.23	21	5	13	<0.5	<3	37	0.10	0.031	9
JGGD-21	Soil	0.010	2	16	8	41	<0.3	17	7	194	2.55	16	5	23	<0.5	<3	49	0.19	0.026	16
JGGD-22	Soil	0.032	4	42	117	236	0.3	16	11	322	4.52	221	11	505	<0.5	6	78	0.50	0.063	35
JGGD-23	Soil	0.024	4	29	89	163	0.5	11	7	308	4.27	223	6	155	<0.5	<3	74	0.28	0.076	17
JGGD-24	Soil	0.013	2	24	50	93	<0.3	13	7	203	3.09	85	5	66	<0.5	<3	57	0.26	0.044	15
JGGD-25	Soil	0.008	1	31	17	67	<0.3	21	9	305	2.63	51	3	38	<0.5	<3	49	0.38	0.056	17
JGGD-26	Soil	0.010	8	59	157	124	1.2	6	5	143	5.46	238	22	245	<0.5	7	40	0.24	0.105	73
JGGD-27	Soil	0.012	2	26	32	58	<0.3	18	10	358	3.40	21	7	93	<0.5	<3	68	0.41	0.053	20
JGGD-28	Soil	0.329	3	36	159	282	0.7	12	11	421	5.08	1690	9	312	1.8	33	89	0.75	0.213	26
JGGD-29	Soil	0.033	4	28	23	54	0.3	20	11	263	3.92	27	11	104	<0.5	<3	71	0.33	0.036	28
JGGD-30	Soil	0.009	1	18	12	55	<0.3	18	7	269	2.46	18	8	33	<0.5	<3	47	0.20	0.026	21
JGGD-31	Soil	0.011	1	30	22	71	<0.3	25	9	374	2.62	27	5	44	<0.5	<3	42	0.43	0.060	17

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**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:** None Given  
**Report Date:** July 12, 2016

**Page:** 3 of 4 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

Method	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Analyte	ppm	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
Unit	1	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
MDL															
JGGD-02	Soil	30	0.44	398	0.065	<20	1.75	0.01	0.07	<2	<0.05	<1	<5	<5	6
JGGD-03	Soil	28	0.52	372	0.063	<20	1.36	0.02	0.08	<2	<0.05	<1	<5	<5	5
JGGD-04	Soil	25	0.53	433	0.056	<20	1.58	0.01	0.06	<2	<0.05	<1	<5	<5	5
JGGD-05	Soil	23	0.50	474	0.050	<20	1.40	0.02	0.04	<2	<0.05	<1	<5	<5	<5
JGGD-06	Soil	23	0.53	439	0.057	<20	1.48	0.02	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-07	Soil	25	0.45	400	0.042	<20	1.56	0.01	0.04	<2	<0.05	<1	<5	<5	<5
JGGD-08	Soil	25	0.47	373	0.045	<20	1.48	0.01	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-09	Soil	23	0.50	396	0.059	<20	1.60	0.02	0.05	<2	<0.05	<1	<5	<5	5
JGGD-10	Soil	24	0.49	285	0.068	<20	1.67	0.01	0.04	<2	<0.05	<1	<5	<5	5
JGGD-11	Soil	24	0.50	328	0.073	<20	1.66	0.01	0.05	<2	<0.05	<1	<5	5	5
JGGD-12	Soil	25	0.52	494	0.082	<20	1.74	0.02	0.09	<2	0.06	<1	<5	<5	8
JGGD-13	Soil	23	0.45	301	0.017	<20	1.68	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-14	Soil	27	0.39	209	0.025	<20	1.98	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-15	Soil	29	0.49	320	0.057	<20	1.58	<0.01	0.06	<2	<0.05	<1	<5	<5	6
JGGD-16	Soil	27	0.52	398	0.055	<20	1.44	0.01	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-17	Soil	25	0.45	372	0.035	<20	1.39	<0.01	0.05	<2	<0.05	<1	<5	5	<5
JGGD-18	Soil	10	0.16	216	0.005	<20	1.06	<0.01	0.08	<2	<0.05	<1	<5	<5	<5
JGGD-19	Soil	26	0.38	227	0.023	<20	1.98	<0.01	0.07	<2	<0.05	<1	<5	5	<5
JGGD-20	Soil	14	0.26	194	0.008	<20	1.86	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
JGGD-21	Soil	25	0.38	205	0.035	<20	1.60	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
JGGD-22	Soil	29	0.66	655	0.086	<20	2.43	0.03	0.10	<2	0.08	<1	<5	6	10
JGGD-23	Soil	23	0.48	253	0.071	<20	2.09	0.01	0.07	<2	<0.05	<1	<5	<5	<5
JGGD-24	Soil	22	0.45	236	0.057	<20	1.82	0.01	0.04	<2	<0.05	<1	<5	<5	<5
JGGD-25	Soil	24	0.48	350	0.038	<20	1.58	0.01	0.04	<2	<0.05	<1	<5	<5	<5
JGGD-26	Soil	12	0.39	786	0.009	<20	1.78	0.06	0.25	<2	0.51	<1	<5	5	<5
JGGD-27	Soil	27	0.51	467	0.079	<20	1.99	0.01	0.05	<2	<0.05	<1	<5	<5	7
JGGD-28	Soil	26	0.76	433	0.098	<20	2.94	0.02	0.16	<2	<0.05	<1	<5	6	9
JGGD-29	Soil	33	0.60	445	0.061	<20	2.64	<0.01	0.10	<2	<0.05	<1	<5	6	6
JGGD-30	Soil	24	0.46	236	0.046	<20	1.47	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
JGGD-31	Soil	23	0.52	540	0.038	<20	1.37	0.02	0.05	<2	<0.05	<1	<5	<5	<5

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:**

None Given

**Report Date:**

July 12, 2016

**Page:**

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**Part:**

1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001084.1

Method	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Analyte	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.005	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	
Soil	0.012	<1	31	22	75	<0.3	24	9	378	2.76	23	5	45	<0.5	<3	<3	47	0.50	0.051	17	
JGGD-32																					

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PHONE (604) 253-3158

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse YT Y1A 5G9 CANADA

**Project:**  
**Report Date:**

None Given  
July 12, 2016

**Page:**

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**Part:** 2 of 2

CERTIFICATE OF ANALYSIS

VAN16001084.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Cr	ppm	1	0.01	1	0.01	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Mg	%	1	0.01	1	0.01	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ba	ppm	1	0.001	1	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Ti	%	1	0.001	1	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
B	ppm	20	<20	20	<20	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Al	%	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
Na	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
K	%	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W	ppm	2	<2	2	<2	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
S	%	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Hg	ppm	1	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tl	ppm	5	<5	5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ga	ppm	5	<5	5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Sc	ppm	5	<5	5	<5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

JGGD-32 Soil

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[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

Submitted By: Bernie Kreft  
Receiving Lab: Canada-Vancouver  
Received: September 01, 2016  
Report Date: September 10, 2016  
Page: 1 of 3

## CERTIFICATE OF ANALYSIS

VAN16001539.1

### CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number: 37  
Number of Samples: 37

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
Dry at 60C	Dry at 60C	37			
SS80	Dry at 60C sieve 100g to -80 mesh	37			
FA430	Lead Collection Fire - Assay Fusion - AAS Finish	37	30	Completed	VAN
AQ300	1:1:1 Aqua Regia digestion ICP-ES analysis	8	0.5	Completed	VAN
DRPLP	Warehouse handling / disposition of pulps	37			

### ADDITIONAL COMMENTS

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

Invoice To: **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9  
Canada

CC:



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**BUREAU VERITAS**  
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**Client:**

**Kreft, Bernie**

1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:**

None Given

**Report Date:**

September 10, 2016

**Bureau Veritas Commodities Canada Ltd.**

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Page:**

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**Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001539.1

Method	FA430	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300							
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La																
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm																
MDL	0.005									0.01									0.001																	
GZD-01	Soil	0.031	5	35	85	221	<0.3	8	10	438	385	10	281	1.0	23	<3	118	0.53	0.175	21																
GZD-02	Soil	0.104	17	49	47	116	0.3	10	8	274	217	12	244	0.6	21	<3	75	0.33	0.056	53																
GZD-03	Soil	0.296	6	32	48	100	<0.3	9	8	327	26	9	246	<0.5	<3	<3	83	0.44	0.063	22																
GZD-04	Soil	0.025	3	23	29	66	<0.3	6	6	285	39	8	442	0.6	<3	<3	69	0.46	0.083	17																
GZD-05	Soil	0.271	5	30	18	52	<0.3	7	7	268	44	8	191	0.6	<3	<3	76	0.53	0.090	32																
GZD-06	Soil	0.019	3	34	28	57	<0.3	10	10	400	27	9	150	<0.5	<3	<3	119	0.64	0.184	27																
GZD-07	Soil	0.035	4	35	44	159	<0.3	14	13	888	602	10	82	1.2	10	<3	132	0.60	0.206	24																
GZD-08	Soil	0.019	4	26	33	96	<0.3	13	14	486	40	7	144	0.7	<3	<3	96	0.33	0.085	18																
VVD-01	Soil																																			
VVD-02	Soil																																			
VVD-03	Soil																																			
VVD-04	Soil																																			
VVD-05	Soil																																			
VVD-06	Soil																																			
VVD-07	Soil																																			
VVD-08	Soil																																			
VVD-09	Soil																																			
VVD-10	Soil																																			
VVD-11	Soil																																			
VVD-12	Soil																																			
VVD-13	Soil																																			
VVD-14	Soil																																			
VVD-15	Soil																																			
VVD-16	Soil																																			
VVD-17	Soil																																			
VVD-18	Soil																																			
VVD-19	Soil																																			
VVD-20	Soil																																			
VVD-21	Soil																																			
VVD-22	Soil																																			

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Canada

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

www.bureauveritas.com/um

**Client:**

**Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** September 10, 2016

**Page:** 2 of 3 **Part:** 2 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001539.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300				
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Unit	MDL														
GZD-01	20	0.62	381	0.083	<20	2.79	<0.01	0.06	<2	<0.05	<1	<5	14	10	Soil															
GZD-02	18	0.33	335	0.013	<20	2.81	0.01	0.05	<2	<0.05	<1	<5	12	8	Soil															
GZD-03	17	0.40	369	0.080	<20	2.97	0.01	0.05	<2	<0.05	<1	<5	12	6	Soil															
GZD-04	9	0.43	506	0.039	<20	3.02	0.02	0.06	<2	<0.05	<1	<5	12	<5	Soil															
GZD-05	15	0.72	338	0.081	<20	2.86	0.02	0.13	<2	<0.05	<1	<5	12	6	Soil															
GZD-06	22	0.85	691	0.216	<20	2.86	0.02	0.40	<2	<0.05	<1	<5	15	9	Soil															
GZD-07	30	0.94	314	0.087	<20	3.04	0.01	0.16	<2	<0.05	<1	<5	14	11	Soil															
GZD-08	27	0.59	334	0.109	<20	2.71	0.01	0.09	<2	<0.05	<1	<5	11	7	Soil															
VVD-01															Soil															
VVD-02															Soil															
VVD-03															Soil															
VVD-04															Soil															
VVD-05															Soil															
VVD-06															Soil															
VVD-07															Soil															
VVD-08															Soil															
VVD-09															Soil															
VVD-10															Soil															
VVD-11															Soil															
VVD-12															Soil															
VVD-13															Soil															
VVD-14															Soil															
VVD-15															Soil															
VVD-16															Soil															
VVD-17															Soil															
VVD-18															Soil															
VVD-19															Soil															
VVD-20															Soil															
VVD-21															Soil															
VVD-22															Soil															

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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**Client:** **Kreft, Bernie**  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Submitted By:** Bernie Kreft  
**Receiving Lab:** Canada-Vancouver  
**Received:** September 26, 2016  
**Report Date:** October 14, 2016  
**Page:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001761.1

**CLIENT JOB INFORMATION**

**Project:** None Given  
**Shipment ID:**  
**P.O. Number:** 16  
**Number of Samples:** 16

**SAMPLE DISPOSAL**

DISP-PLP Dispose of Pulp After 90 days  
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

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

**Invoice To:** Kreft, Bernie  
1 Locust Place  
Whitehorse Yukon Y1A 5G9  
Canada

**CC:**

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Procedure Code	Code Description	Number of Samples	Test Wgt (g)	Report Status	Lab
Dry at 60C	Dry at 60C	16			
SS80	Dry at 60C sieve 100g to -80 mesh	16			VAN
SVRJT	Save all or part of Soil Reject	16			VAN
AQ201	1:1:1 Aqua Regia digestion ICP-MS analysis	16	15	Completed	VAN

**ADDITIONAL COMMENTS**



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PHONE (604) 253-3158

**Client:** Kref, Bernie  
1 Locust Place  
Whitehorse Yukon Y1A 5G9 Canada

**Project:** None Given  
**Report Date:** October 14, 2016

**Page:** 2 of 2 **Part:** 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN16001761.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La		
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm		
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1		
COND-01	1.1	34.0	8.7	34	0.3	9.0	4.4	136	2.16	203.1	14.7	6.9	18	<0.1	6.0	3.0	33	0.11	0.038	24		
COND-02	4.1	41.4	15.2	51	0.4	13.2	12.5	367	3.83	174.2	26.7	5.6	32	0.2	5.7	2.4	58	0.13	0.100	19		
COND-03	1.9	48.4	12.0	37	0.3	12.0	4.8	165	3.16	151.8	28.5	4.2	21	0.2	4.5	3.2	47	0.12	0.046	23		
COND-04	1.6	45.8	11.8	53	0.4	19.7	10.4	261	3.41	93.4	43.5	5.9	25	<0.1	3.4	1.6	56	0.14	0.034	19		
COND-05	4.1	65.0	19.0	31	1.1	9.5	4.2	124	3.43	481.5	73.6	8.3	42	<0.1	12.9	4.8	39	0.13	0.065	29		
COND-06	1.4	35.3	9.5	47	0.2	17.3	6.3	193	2.94	67.2	65.1	6.8	23	<0.1	3.1	1.2	48	0.14	0.025	21		
COND-07	4.7	70.1	47.6	33	3.6	10.9	5.5	187	3.26	625.9	83.1	6.3	45	0.1	12.0	7.2	39	0.14	0.067	28		
COND-08	2.3	40.6	19.9	46	2.3	14.5	6.3	172	3.13	354.4	31.6	5.1	25	<0.1	8.2	2.8	49	0.15	0.038	18		
COND-09	1.7	43.7	13.6	55	0.3	17.2	9.7	198	3.81	162.4	26.4	6.3	49	<0.1	5.8	2.5	59	0.15	0.044	19		
COND-10	6.3	53.0	15.1	44	0.4	9.5	5.5	270	3.11	260.9	47.1	5.8	28	0.1	7.3	2.9	45	0.08	0.069	21		
COND-11	1.4	43.4	15.2	41	0.4	11.8	5.8	157	3.24	219.9	39.7	6.8	30	<0.1	7.9	4.6	44	0.11	0.046	24		
COND-12	1.4	41.9	17.9	35	0.6	6.6	3.3	123	2.48	53.2	8.6	3.9	27	0.1	4.9	5.7	32	0.12	0.066	28		
	0.6	40.3	8.8	58	0.1	23.7	15.8	533	3.52	6.9	63.7	0.9	12	0.1	0.5	0.1	71	0.20	0.052	8		
	0.2	127.9	2.1	66	<0.1	23.5	35.3	846	3.83	4.8	9.9	0.7	14	<0.1	0.2	<0.1	116	0.29	0.057	3		
	0.2	119.0	6.2	69	<0.1	28.2	33.8	925	4.44	3.6	5.6	0.7	15	<0.1	0.3	<0.1	117	0.28	0.052	7		
	0.6	65.9	6.1	61	<0.1	21.9	18.3	536	3.32	6.9	5.0	2.2	13	0.1	0.4	<0.1	86	0.21	0.046	8		

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**Project:** None Given  
**Report Date:** October 14, 2016

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**CERTIFICATE OF ANALYSIS**

VAN16001761.1

Method Analyte Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
COND-01 Soil MDL	Cr	ppm	15	0.24	180	0.023	<1	0.80	0.007	0.09	0.023	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COND-02 Soil	Mg	%	26	0.36	255	0.036	<1	1.64	0.016	0.12	0.2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COND-03 Soil	Ba	ppm	20	0.29	244	0.019	<1	1.26	0.009	0.09	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-04 Soil	Ti	%	32	0.49	300	0.035	<1	1.89	0.013	0.07	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-05 Soil	Ba	ppm	15	0.23	273	0.031	<1	0.84	0.026	0.16	0.3	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COND-06 Soil	Ti	%	27	0.44	276	0.038	<1	1.41	0.016	0.10	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-07 Soil	Al	%	17	0.28	339	0.025	<1	0.99	0.024	0.18	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-08 Soil	Al	%	23	0.39	257	0.021	<1	1.63	0.012	0.13	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-09 Soil	Ba	ppm	27	0.50	282	0.040	<1	1.99	0.026	0.10	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COND-10 Soil	Ba	ppm	18	0.25	248	0.025	<1	1.23	0.014	0.10	0.2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COND-11 Soil	Ba	ppm	19	0.32	243	0.027	<1	1.22	0.011	0.10	0.4	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COND-12 Soil	Ti	%	11	0.14	219	0.014	<1	0.69	0.007	0.08	0.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[REDACTED]	Ba	ppm	47	1.28	119	0.059	<1	2.02	0.006	0.04	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
	Cr	ppm	28	1.79	236	0.100	<1	2.00	0.003	0.29	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Ba	ppm	60	2.41	299	0.113	<1	2.41	0.003	0.29	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cr	ppm	32	1.17	214	0.076	<1	1.82	0.007	0.09	0.2	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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