

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.08.26

ASSESSMENT REPORT 21884

MINING DIVISION: Skeena

PROPERTY: Sulphurets
LOCATION: LAT 56 20 00 LONG 130 10 00
UTM 09 6243577 427864
NTS 104B08E

CAMP: 050 Stewart Camp

CLAIM(S): Tedray 12, Tedray 17, Red River 7
OPERATOR(S): Newhawk Gold Mines
AUTHOR(S): Visagie, D.A.
REPORT YEAR: 1991, 103 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

KEYWORDS: Jurassic, Unuk River Formation, Betty Creek Formation, Andesites
Tuffs, Pyrite, Tetrahedrite, Arsenopyrite, Sphalerite, Galena

WORK

DONE: Geochemical, Geological, Physical
GEOL 450.0 ha
Map(s) - 1; Scale(s) - 1:1000
ROAD 4.0 km
ROCK 470 sample(s) ;AU,AG
Map(s) - 1; Scale(s) - 1:1000
TREN 470.0 m 27 trench(es)
MINFILE: 104B 276

LOG NO: DEC 04 1991	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL REPORT
BRUCESIDE 1 GROUP

SUB-RECORDER RECEIVED
NOV 25 1991
M.R. # \$.....
VANCOUVER, B.C.

SKEENA MINING DIVISION

Latitude 56° 20' N
Longitude 130° 10' W
NTS 104B/8

OWNER: Newhawk Gold Mines Ltd.
Granduc Mines Limited

OPERATOR: Newhawk Gold Mines Ltd.

REPORT BY: Dave Visagie, B.Sc.
October 15, 1991

SU91-410.13

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,884

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1.0 INTRODUCTION

The Bruceside 1 Group is located within the "Golden Triangle" area of northwestern B.C. occurring 60 kilometres north of the village of Stewart. The Group is part of the larger Sulphurets property which is presently being evaluated by Newhawk Gold Mines and Granduc Mines under a joint venture agreement. The Sulphurets property hosts several bulk tonnage gold and/or copper deposits along with high grade gold/silver veins with the Bruceside 1 Group hosting areas of both bonanza and bulk tonnage grade gold/silver deposition. It is underlain by Hazelton Group volcanics and volcanoclastics that have been intruded by plutons of sub-alkaline composition. Work on the property dates back to 1935 when copper-molybdenum mineralization was located in the vicinity of the Main Copper Zone. Since then it has had various exploration programs completed on it with the main development occurring in the vicinity of the West Zone, located at Brucejack Lake. As part of the 1991 work program the area within the vicinity of the Golden Marmot showing was trenched, mapped and sampled with a total of 474 rock chip samples being collected and assayed for gold and silver. The results show veins of limited length to contain anomalous gold and silver with the best trench averaging .851 opt Au and .34 opt Ag over 2 metres.

2.0 LOCATION AND ACCESS

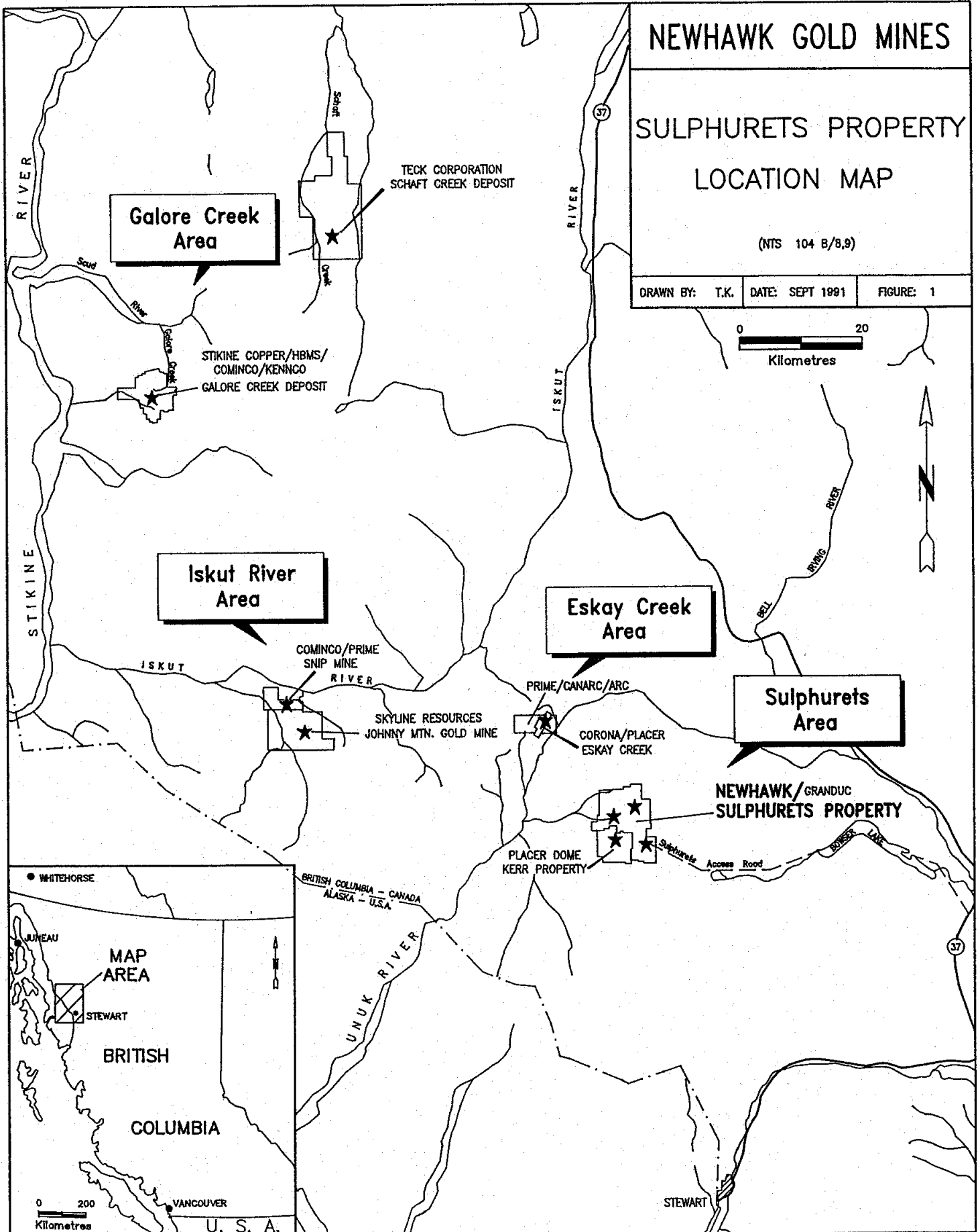
The property is located within the Coast Range mountains of northwestern B.C., some 60 kilometres northwest of the village of Stewart approximately 920 kilometres northwest of Vancouver, B.C., being centred at 130° 10'W, 56° 28'N on NTS sheet 104B/8.

Access during the early summer is by helicopter from Stewart. During the later part of the summer, supplies were mobilized to the Tide Lake airstrip 35 kilometres south of the property and flown in using a helicopter. During major summer programs, access is by barge along Bowser Lake, then by road along the Bowser River with the final access to the camp being by tracked vehicle 16 kilometres up the Knipple Glacier.

3.0 PHYSIOGRAPHY AND VEGETATION

The topography of the Sulphurets property is typical of the Coast Range Mountains with steep glaciated U-shaped valleys being the norm. Elevations range from 670 metres at the foot of Mitchell Glacier to in excess of 1830 metres on some of the mountain ranges. Extensive ice-fields are common throughout the property.

Winters tend to be severe with extensive snowfall and winds while summers tend to be cool and wet. Most of the snowfall occurs between mid-February and mid-April.



Vegetation throughout the property is varied with spruce and fir trees occurring at the lower elevations while lichens, mosses and scrub timber dominate the uplands.

4.0 PROPERTY HISTORY

Exploration in the area dates back to the 1880's when placer gold was located in Sulphurets Creek. In 1935, copper-molybdenum mineralization was located in the vicinity of the Main Copper showing. Until 1959 the property was intermittently evaluated. In 1959, gold and silver values were located in the Brucejack Lake area. Granduc Mines, as a result of this previous work, staked the main claim area in 1960. Follow-up work included an airborne magnetometer survey, a few ground follow-up magnetometer lines and reconnaissance geology. As a result, copper mineralization was located along the Mitchell-Sulphurets Ridge while gold and silver values were discovered at the base of the Iron Cap area.

In 1961, Granduc drilled 224 metres of packsack core in 32 holes at four locations to test the extent of the known copper showings. Additional prospecting resulted in the discovery of gold/silver mineralization in the Hanging Glacier area and molybdenite on the south side of Mitchell Glacier. In 1962, two diamond drill holes, totalling 611 metres in length, tested molybdenum mineralization in the Quartz Stockwork Zone. In 1968, Granduc drilled 1016 metres in six holes on the Main Copper Zone and mapped the area below the Hanging Glacier. In 1970, plane table mapping was carried out from the Hanging Glacier to the south edge of the Mitchell Glacier. Granduc in 1974/75 carried out bedrock geochemical sampling and geological reconnaissance and prospecting throughout much of the property.

In 1980, Esso Minerals optioned the property from Granduc and subsequently completed between then and 1985, an extensive program consisting of mapping, trenching, geochemical sampling that resulted in the discovery of several showings including Snowfields, Shore, West and Galena zones. Esso surrendered its interest in 1985.

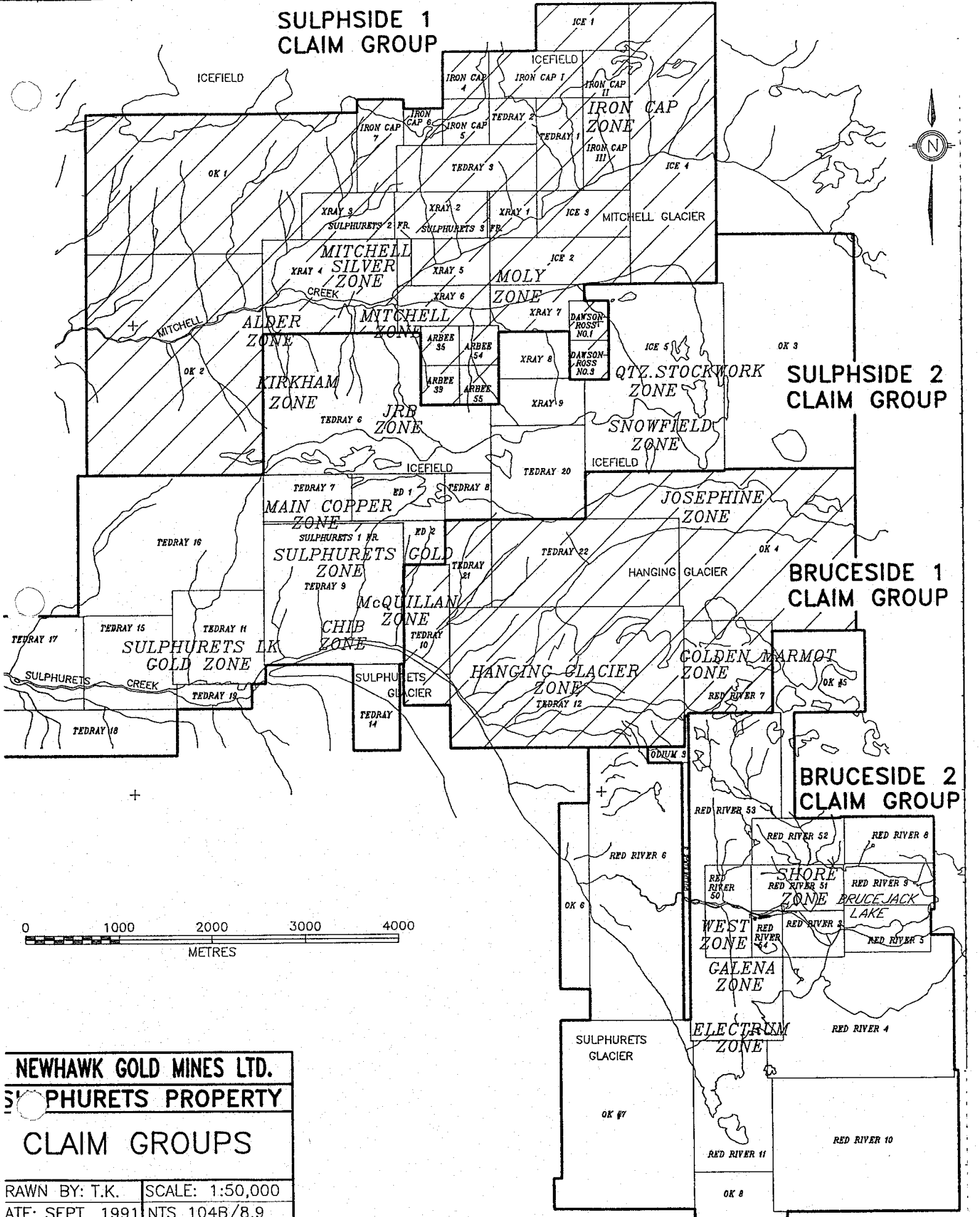
In 1985, Newhawk Gold Mines optioned the property from Granduc. Since then it has completed work on the Snowfields, Mitchell, Golden Marmot, Sulphurets Gold, Main Copper zones along with lesser known targets.

5.0 CLAIM STATUS

All claims comprising the Sulphurets property occur within the Skeena Mining Division. All claims are in good standing.

The property is held under a joint venture agreement between Granduc Mines Limited and Newhawk Gold Mines Ltd. with Newhawk acting as operator.

SULPHSIDE 1 CLAIM GROUP



SULPHSIDE 2 CLAIM GROUP

BRUCESIDE 1 CLAIM GROUP

BRUCESIDE 2 CLAIM GROUP



NEWHAWK GOLD MINES LTD.
SULPHURETS PROPERTY
CLAIM GROUPS

RAWN BY: T.K. SCALE: 1:50,000
 ATE: SEPT. 1991 NTS 104B/8,9

For assessment purposes, the property has been divided into four groups; Sulphside 1, Sulphside 2, Bruce side 1 and Bruce side 2 with this report focusing on the Bruce side 1 Group.

BRUCESIDE 1 GROUP

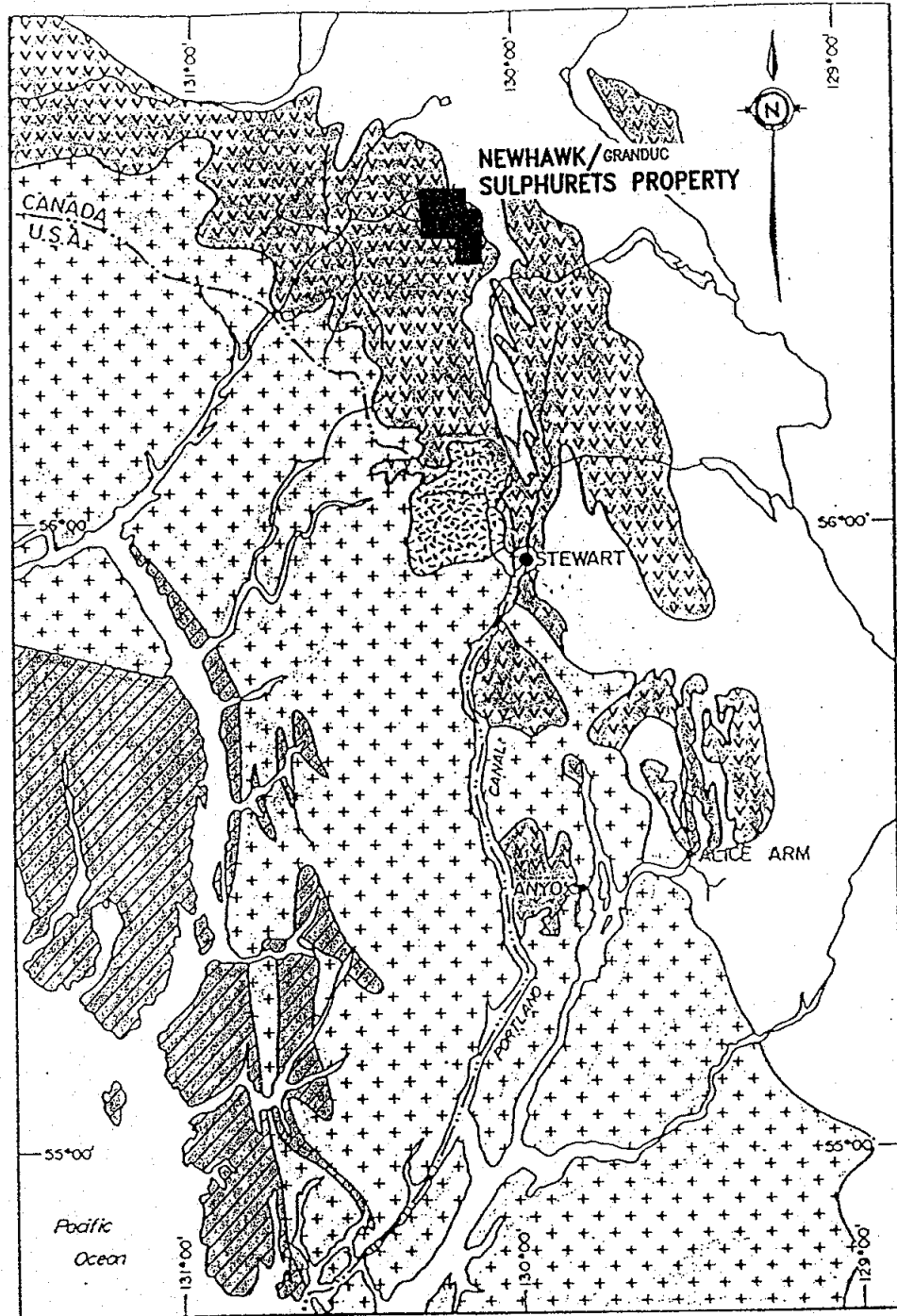
<u>Name of Claim</u>	<u>Title Number</u>	<u>Number of Units</u>
Tedray 10	250386	3
Tedray 12	250388	15
Tedray 21	250990	2
Tedray 22	251066	8
OK 4	251283	18
Red River 7	250986	4
Marmont Fr.	302498	1

6.0 REGIONAL GEOLOGY






The Sulphurets property is underlain by a thick sequence of Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group that have been intruded by plutons of sub-alkaline composition. This complex has been folded and faulted and is now elongated in a northerly direction. It is bounded to the west by the Coast Crystalline complex and to the east by Bowser Basin sediments.

The oldest rocks on the property are the Lower Sediments, reported to have a minimum thickness of 1500 metres, consists mainly of argillites, siltstone and cherts along with minor amounts of wackes, arenites, tuffs and trachytes. Younger pyroclastic rocks, that range from fine tuff to breccias, are evidence of a major volcanic event in the area. These sometimes contain blocks greater than one metre in size and occur in a northerly trending elongate zone through the central part of the area. Most of the pyroclastics are of andesitic composition and have been subjected to varying degrees of alteration. These altered tuffs and breccias are host for most of the vein deposits in the Stewart area.

The Upper Sediments consist of an extensive sequence of black shales and argillites that are similar in character to the Lower Sediments. The volcanic-sedimentary sequence is cut by numerous elongated, sub-parallel northerly trending, late stage intrusive plutons that are probably of Mid-Jurassic age. These intrusives range from diorite to granite in composition and appear to be sub-alkaline. The emplacement of these plutons appears to be related to faulting and associated intense alteration, silicification and mineralization. Sericite and pyrite are the most abundant alteration minerals with other assemblages locally dominated by feldspar, chlorite and propylitic minerals.



LEGEND

- | | | | |
|---|---|---|--|
|  | LOWER - MIDDLE JURASSIC
BOWSER ASSEMBLAGE |  | UPPER TRIASSIC - LOWER JURASSIC
TEXAS CREEK INTRUSION |
|  | UPPER TRIASSIC - LOWER
JURASSIC
TAKLA & HAZELTON
ASSEMBLAGE
(STEWART COMPLEX) |  | CRETACEOUS - TERTIARY
COAST RANGE INTRUSIONS |
|  | WRANGELL METAMORPHIC BELT
(UNDEFINED AGE) | | |

REGIONAL GEOLOGY OF THE STEWART - ANYOX AREA



Figure 3 (after Dykes et al, 1988)

Some clay alteration minerals have also been recognized in the Brucejack Lake Zones. Porphyry copper-gold mineralization occurs in the northern and central parts of the property and is often associated with K-spar and sericitic alteration.

Structurally controlled gold/silver bearing veins occur mainly in volcanic rocks within one kilometre wide zones of intense predominantly sericitic alteration. The veins consist of quartz, minor calcite, and trace to 20% sulphide minerals. These range from simple single veins to complex vein zones and stockworks. Sulphides within these veins consist of pyrite, sphalerite, galena, tetrahedrite, electrum and chalcopyrite along with argentite, pyrrhotite and polybasite.

7.0 1991 WORK PROGRAM

As part of the 1991 Sulphurets property evaluation the following was completed on the Golden Marmot Zone:

- i) The upgrading of 3 kilometres of road from the Brucejack campsite to the Golden Marmot Zone.
- ii) The building of 1 kilometre of road within the Golden Marmot Zone.
- iii) 400 metres of backhoe trenching of selected areas.
- iv) taking of 474 rock chip samples from outcrop.
- v) Mapping of sampled areas within the Golden Marmot area.

The road construction and upgrading was completed using the Newhawk owned Caterpillar D7G bulldozer while the backhoe trenching was conducted using a Caterpillar 225 excavator. The rates quoted in the cost statement are estimates for the area and include fuel and maintenance.

All rock chip samples were prepared on site at the company laboratory then sent to CDN Laboratories, Burnaby B.C. for gold and silver analysis.

Surveying of selected trenches and drill sites was completed by Newhawk personnel.

8.0 GEOCHEMISTRY

8.1 Field Procedure

Rock chip samples weighing up to 5 kilograms were taken from outcrop over measured widths. Grab samples were taken from outcrop to determine the tenor of selected samples. All samples were described in field notes then transcribed into field description forms (Appendix 1). During the field program a total of 474 samples were taken.

8.2 Assaying

All of the samples were initially geochemed for gold and silver with those samples returning values of >10,000 ppb Au and >100 ppm Ag being assayed using a one assay ton sample. Samples assaying >.15 opt Au were screened for metallics. The following is an outline of the procedure involved in the preparation and assaying of the samples.

i) Sample preparation

Rocks: Sample is crushed to 1/4" or finer then riffled to give approximately 250g. This sub-sample is ring pulverized to approximately -100 mesh.

ii) Analytical procedure

Assay: Au, Ag - Fire assay, gravimetric finish on 1/2 AT sample. (One assay ton upon request).

Ag, Cu, Pb, Zn - A 0.50g sample is digested in a nitric acid-potassium chlorate mixture. Hydrochloric acid is added and the sample is taken to dryness. Sample is taken up in hydrochloric acid, bulked to volume with distilled water and then presented to the AA.

Geochem by AA: Au - A 10g sample is inquarted and fire assayed. The prill is parted in a test tube with 0.5 ml nitric acid. The gold is taken into solution with the addition of 1.5 ml hydrochloric acid. Sample is bulked to 5.0 ml with distilled water, then presented to AA.

Ag, Cu, Pb, Zn - A 0.5 g sample is ashed then transferred to a test tube. Sample is digested with 1.0 ml nitric acid and 2.0 ml hydrochloric acid in a hot water bath for two hours. Sample is bulked to 10.0 ml with distilled water and presented to AA.

9.0 GEOLOGY - GOLDEN MARMOT ZONE

The Golden Marmot Zone occurs within a north trending zone of hydrothermal alteration that is at least 36 kilometres long with widths of up to 5 kilometres. It occurs within altered Unuk River Formation rocks consisting primarily of intermediate volcanics near the contact with overlying clastic to chemical sediments of the younger Betty Creek Formation. The volcanics have been extensively altered: quartz-sericite-pyrite, resulting in the destruction of most of the primary structures.

The strongly silicified-sericitically altered volcanics are well-jointed. In close proximity to the veins, the volcanics are intensely fractured and brecciated.

The overlying Betty Creek Formation rocks consists of interbedded, interlaminated arenaceous cherty tuffaceous rocks. The cherty tuff beds are up to 10 metres thick and exhibit well developed bedding.

In the northwestern and southeastern part of the zone, are small occurrences of feldspar porphyry that consists of 25 to 40% feldspar phenocrysts in a very fine grained quartz-feldspathic matrix. The unit has undergone little alteration.

To date, seven gold-silver bearing zones have been located. The veins; GM-1 (Ptamigan), GM-2, GM-3 (Deb and Marmot), GM-4, GM-5, Weasel and Wall, define the multiple and stacked nature of vein mineralization hosted within the hydrothermal alteration system. They typically have a well developed ribbon texture and are extremely vuggy. Vein mineralogy consists of pyrite +/- tetrahedrite/polybasite +/- arsenopyrite +/- chalcopyrite +/- sphalerite +/- galena +/- molybdenite +/- malachite within a gangue of quartz, carbonate and pyrolusite. Table 1 summarizes the nature of the veins.

10.0 SUMMARY AND CONCLUSIONS

The Bruceside 1 Group is part of the larger Sulphurets property which is presently being evaluated under joint venture agreement by Newhawk Gold Mines and Granduc Mines. The property located 60 kilometres north of Stewart, hosts several bulk tonnage porphyry style copper and or gold deposits along with gold/silver bearing veins within Hazelton Group volcanics. On the Bruceside 1 Group, gold/silver mineralization has been located within quartz-carbonate veins. As part of the property evaluation, backhoe trenching, sampling and mapping of outcrops within the zone were completed. Results show the zone to be comprised of at least seven quartz veins with the best results occurring in vein GM-3 averaging .851 opt Au, .34 opt Ag over 2 metres. Although this by itself is significant the sampling and mapping of all veins shows the Golden Marmot Zone to have limited potential due to the lack of continuous gold/silver mineralization or alteration.

Table 1

VEIN DESCRIPTION - BRUCESIDE 1 GROUP

Vein	Location Within Zone	Dimension (m)	Description	Significant Results			
				Type	Length (m)	Au opt	Ag opt
GM-1	northwest	120 x upto 1.2	The zone, occurring within clastic/chemical seds varies in thickness from 0.40-1.00m. It splays from and is transected by GM-4 at an angle of 60°	grab		0.022	4.32
GM-2	northwest	210 x upto 2.0	The zone, occurring within sediments is composed of quartz stockwork in which pyrite +/- galena +/- molybdenite occur. The structure splays from GM-4 at 80° S.	grab		0.032	0.05
GM-3 (Deb, Marmot)	centre	1350 x 1-50	The system consists of quartz vein lenses in quartz stockwork crosscutting both volcanics and sediments. It has an arcuate shape with convergence and increased width to the southeast. The highest values occur within a 30m long quartz vein with significant results also occurring in a fold nose.	grab channel grab grab channel channel channel channel grab grab grab grab	1.90 2.70 2.00 0.65 3.00	0.040 0.047 0.024 0.026 0.036 0.427 0.851 0.025 0.384 1.628 0.088 0.008 0.008	1.31 0.82 1.40 0.87 1.75 0.35 0.34 2.22 1.10 86.30 1.20 1.98 2.92
GM-4	centre	200 x upto 2.0	The zone, crosscutting both sediments and volcanics striking northeast-southwest is composed of both quartz vein and stockwork. The zone is open along strike. About the vein strong silicification occurs. It is interpreted that GM-4 either transects GM1,2 & 3 or that those zones are splays to GM-4.	grab grab grab channel	2.40	0.044 0.326 0.033 0.024	3.41 7.90 7.58 2.42
GM-5	north	50 x upto 2.5	Multiple quartz veins and stockwork crosscutting volcanics. The vein parallels GM-4.	No Significant values			
Weasel	south	25 x upto 1.0	The zone trending north-south paralleling a diabase dyke swarm consists of quartz stockwork in strongly silicified volcanics.	channel channel	2.40 1.80	0.046 0.051	0.36 0.45
Wall	east	50 x upto 3.0	Occurring within volcanics, the zone trending north-south consists of stacked, en-echelon quartz vein lenses.	channel grab	2.00	0.056 0.328	0.11 0.30

11.0 RECOMMENDATIONS

It is recommended that:

- i) Additional mapping be completed on the property with the main focus being completed on the GM-3 vein.
- ii) Soil sampling should be completed in areas of limited bedrock exposure to determine whether any buried veins occur in the Golden Marmot area.

12.0 COST STATEMENT - BRUCESIDE 1 GROUP

1. Labour (94 man-days) Total: \$ 18,955.00

B. Way	August 16-23	8 days @ \$416
S. Roach	August 16-23	8 days @ \$312
G. McGillvary	August 16-23	8 days @ \$225
M. Holmes	August 16-23	8 days @ \$178
M. Harkema	August 11, 13-23	12 Days @ \$200
K. Sinclair	August 16-23	8 days @ \$170
R. Scheerschmidt	August 16-23	8 days @ \$114
S. Rodway	August 16-23	8 days @ \$137
D. Soucie	August 16-23	8 days @ \$200
N. Larson	August 20-23	4 days @ \$160
T. Kirby	August 24	1 day @ \$174
B. Malahoff	August 13	1 day @ \$194
A. Maarkus	August 13,17,26	3 days @ \$137

2. Transportation Total: \$ 5,200.00

i) Crew airfare: Vancouver-Stewart Return
10 people x \$262/ticket \$2,620

ii) Mobe to Knipple airstrip from Smithers
Otter, DC3 \$2,486.00

iii) Helicopter \$3,669.00
206 - June 5: 3 hrs @ \$698/hr
500 - Aug. 16,17,19: 2.1 hrs @ \$750/hr

3. Room & Board Total: \$ 9,400.00

94 man days @ \$100/day

4. Consumables Total: \$ 500.00

Office supplies, plastic & nylon bags, dymo, etc.

5. Communication Total: \$ 500.00

Spacetel

6. Sample shipping, freighting of goods Total: \$ 300.00**7. Machinery Rental Total: \$ 18,500.00**

i) Bulldozer 12 days @ \$100/hr x 10hrs/day

ii) Backhoe 5 days @ \$120/hr x 10hrs/day

iii) 4x4 Quads 7 days @ \$50/day x 2 Quads

8. Expediting Total: \$ 500.00**9. Sampling Total: \$ 3,435.50**

474 samples - gold geochem @ \$5.75/sample

474 samples - silver geochem @ \$1.50/sample

10. **Report** **Total: \$ 5,000.00**
Includes drafting, typing, etc.

SUBTOTAL: \$ 62,290.50

11. **Management Fee 10%** **\$ 6,229.05**

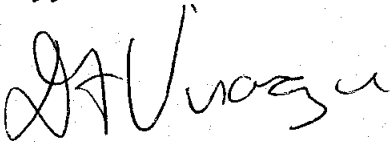
TOTAL: **\$ 68,519.55**

13.0 STATEMENT OF QUALIFICATIONS

I, D.A. Visagie of 860 - 625 Howe Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a Bachelor of Science Degree, majoring in Geology, in 1976.
2. I have been steadily employed in the mining industry since then and have since January 1990 been employed by Northair Mines Ltd. as Senior Geologist.
3. The work undertaken on the Bruceside 1 Group was under my supervision.

Dated at Vancouver, British Columbia, this 15th day of October, 1991.



Dave Visagie

APPENDICES

Appendix 1 Sample Description

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project NEWHAWK

Sampler B. MALAHOFF

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag 276			
Aug 27/11	16201	Rock				GOLDEN MARMOT		CHIP FROM O/C					1.001	.029	STR CARB WKCHL	MOD SIL, Grey weak green black matrix d-ykes supplement B → eyes, STR CARB. ALT. MOD. MAGNETIC Bladed black fauces? crystals wk CHL. TR PY
"	16202	"				"	"	"	"				1.001	.064	WKCHL STR LIM	STR SIL, QTR SER, PY, VSTR Qtz flooding 1-2% chasson py Permian feldspar phenocryst Fragmental to Bx.
"	16203	"				"	"	"	"				1.001	.026	Some as 16202	Some as 16202 with 2-2% PY
"	16204	"				"	"	"	"				1.001	.067	WKCHL MOD LIM	MOD STR SIL, STR Qtz flooded, STR QUSW 30-40% 1% PY Q ser. ser. FRAG.
"	16205	"				"	"	"	"				1.001	.012	WK LIM	MOD SIL, QTR Permian CHERT PPAG. Rudalt Subgran Frag. 2-3% PY Permian feldspar

THE
NORTH
GROUP

SAMPLE
DESCRIPTION

Project NEWHAWK

Sampler B. MALAHOFF

Date	Sample No.	Type	Location				Sample Data			Assay Data			Alteration	Sample Description	
			Claim	Northing	Eastng	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au			Ag
Aug 25/91	16209	ROCK				Golden matrix		0	1.0	1.0m		.000	1.98	STR Lim Heraltite	Qtz vein with STR Lim, Heraltite; along fractures. TR Black sulphides? Heraltite?
"	16210	"				"		0	.4m	.4m		.006	7100		Qtz vein + VSTR QUSW 40-80% Qtz vein than STR SW QSP TR -1% PY TR Black let? dark black sulphide
"	16211	"				"			CHIP	FRANCE		.004	14.9	MOD-STR	Vuggy drusy. MOD-STR LIM MOD-STR SIL, Q WIKEN, WIK PY STR QUSW 40- 50% FRAG FRAG
"	16212	"				"			CHIP	FRANCE		1.00	2.4	MOD LIM CHL	QSP to BA PY WIKCHL MOD LIM ACT

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project _____

Sampler _____

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 23/91	16213	Rock				Gold matrix		CLIP	CLIP			.01	3.0 ppm	Sample 16212	Same as 16212 with wk-mud chky TR-PY
"	16214	"				"	"	"	"			Low	0.1 ppm	Sample 16212	Same as 16212 with 2-30% PY
"	16215	"				"	"	"	"			Low	1.0 ppm	"	" " " " with 1-20% PY
"	16216	"				"	"	"	"			Low	0.4 ppm	WKLIM WOODCHL	WKLIM altered WKLIM Vol clastic - fragmental STRIP FOLIATED MID-NIGHTLY PRATINA 1% outbed PY TR Hepatite Possible Bennett Feldspar slawdy Subangular to rounded Chert cgs. WOODCHL 5% to flooded
"	16217	"				"	"	"	"			Low	1.0 ppm		Same as above with cherty - subrounded to rounded frags Common + speckle hematite?
"	16218	"				"	"	"	"			Low	0.6 ppm		Same as above with frags muddy chert + intrane rock

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project NEWHAWK

Sampler B. MALANOFF

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 20/01	16235	Rock				GOLDEN MARMOT		CHIP FROM OK				.001	4.5 ppm	WKLIM	PROP SIL, light green fragments? angular to subangular fragments possibly sac. TR-10% dusky PY.
"	16236	"				"	"	" "				.001	3.2 ppm	STELIM MOOSER	Wk mod SIL highly altered? CSP VSTELIM TR-10% PY MOOSER HIGHLY FRACTURED CROSSANOS bleached
"	16237	"				"	"	" "				2.001	0.5 ppm	STCANS WKLIM	cherty fragments angular to brx 1-2% dusky PY Sed? massive blocky. bleached
"	16238	"				"	"	" "				2.001	0.5 ppm	WKLIM	Same as 16237 with more Qtz cloudy and with Carls fragments to brx bleached white
"	16239	"				"	0	0.2	0.2m			.004	23.6 ppm		5-10% Q ^v SW sed? STESIL, Q ^v vein + stockwork zone narrow TR GA TR-10% PY

ATHAIR
COP

SAMPLE
DESCRIPTION

Project NEW HAWK

Sampler B. MALANOFF

Date	Sample No.	Type	Location			Sample Data			Assay Data			Sample Description		
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
Aug 21/01	16240	Rock				GOLDEN MATERIAL		CHIP FROM O/K			.001	1.4 ppm	MOD Lim STR APP	MUD STR SIL bleached light white green 1-2% PY mass fragmental to rock irregular to BR+ Fine fragments Sed?
"	16241	"				"		0 .7 .7m		.005	3.94		Qtz mass carb vein + QVSW TR Cu Tet. PY mod. Lim STR SIL	
"	16242	"				"		CHIP FROM O/K		.011	3.85	WK Hgn WK Lim	Qtz vein with TR PY TR- 100 Tet Gul Black frag.?	
"	16243	"				"		0 1.5 1.5		.007	2.49	same as above	same as above with STR QVSW Zone.	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project NEWARK

Sampler B. MAHAFF

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 29 1911	1624A	Rock				GOLDEN S. N. 10 W. 4 M. 20 N. 0 T		0	.10	.10m		.061	17.10	STRLIM	High grade Poron Qtz vein 2-5% PY to semi massive TR CPY, Tet
"	16245	"				"		CHIP FROM Q/C				.002	.557	mod STR WK mod STR	VSTR ALT QSP WK PY TR, TR Tet 30-70% QUSW mod-STRLIM WK-mod? STR Fragmental to B Cherty.
"	16246	"				"		CHIP FROM Q/C				.005	.268	STRLIM mod STR	Same as above without TR Tet with TR PY 30-50%
"	16247	"				"		CHIP FROM Q/C				.001	.219	Same as 16246	Same as 16245 30-40 QUSW
"	16248	"				"		CHIP FROM Q/C				.001	.137	VSTR LIM mod STR	STR SIL QSP Fragmental STR Qtz FLUOR 1-2% PY Fragmental to B 30-70% Qtz USW?

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project NEWHAWK

Sampler B. MALANOFF

Date	Sample No.	Type	Location				Sample Data			Assay Data			Sample Description		
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 24/91	20201	ROCK				QZSIL MRSW		0	1.0	1.0		.005	.79	STR ACT	STR SIL. QSP 1-2% PY STR Qtz FLOORING 30-40% QUSW
"	20202	"				"		1.0	2.0	1.0		.005	.709	same as above	same as above with 40-50% Qtz SW 1-2% PY
"	20203	"				"		2.0	3.0	1.0		.004	.318	same as above	same as above
"	20204	"				"		3.0	4.0	1.0		.004	.335	mod lim	Qtz vein TR PY
"	20205	"				"		4.0	5.0	1.0		.004	.525	" "	" TR Tst
"	20206	"				"		5.0	6.0	1.0		.003	.458	mod lim	Qtz vein TR PY
"	20207	"				"		6.0	7.0	1.0		.004	.347	mod lim	STR SIL. QSP Fragmental TR PY 30-50% QUSW
"	20208	"				"		7.0	8.0	1.0		.003	.400	same as above	same as above 1-2% PY
"	20209	"				"		8.0	9.0	1.0		.003	.423	STRUM	V STR SIL QSP 50-80% QUSW TR-1% PY

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project NEWARK

Sampler B. M. ADAMS

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Eastings	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 31/11	16209	Rock				GOLDEN MOUNTAIN		CHIPSTONE O/C			.23	7100ppm		STRLIM	STR SIL, QSP to Qtz vein TR PY
"	16250	"				"	"	"	"	.018	.99			some massive	same as above with AD-50% QUSW
"	20210	"				"	"	"	"	.008	.204		STRLIM	Qtz floccled QSP, TR PY STRLIM crosscut	
"	20211	"				"	"	"	"	.015	.198		STRLIM	Cherty Cornwell TR PY	
"	20212	"				"	"	"	"	.006	.088		STRLIM	Light green Cherty Cornwell tuff TR PY	
"	20213	"				"	"	"	"	.005	.099		STRLIM	STR ALTER QSP TR PY STR Qtz floccling Bosserous.	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Sulphides - Bruce's

Sampler Noem Larson

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
AUG 27 2011	17401	CITRINE ROCK Golden Magnet							3.0		0.002	0.03			STR Hem - ANDIE - Rd color; STR Hem; CB GROSSANUS; Hem matrix about QZ - FOLD 0.5-2cm; ±1.14
	17402	ROCK							3.0		0.005	0.02			STR Hem ANDIE - Rd to rd gray color; CB (QZ) GROSSANUS, STR CB → white DOLYHEDRAL CB ± 2-3cm - ⁵ CB matrix about QZ's; ±1.14
	17403	ROCK							3.0		10.001	0.03			STR Hem - ANDIE - rd color; STR EUS- WK CB SANDUS, 0 texture; ±1.14
	17404	ROCK							3.0		0.002	0.02			STR CB ANDIE - Rd to rd white color; Frac with CB VNS → STR CB ABOUT VNS; 0 texture; ±1.14
	17405	ROCK							3.0		0.053	0.084			STR CB ANDIE? - BL white color; VNS - MSV; STR CB; ±1.14
	17406	ROCK							3.0		0.0016	0.026			STR SIL ANDIE (QSP) - BL white color; (SEE) TO Rd GROSSANUS color; STR SIL (SEE); SA; ±1.5*14
	17407	ROCK							3.0		0.004	0.06			ANDIE + QZ - GRAYISH WHITE CB VN XANTHS & INCORPORATE WHITE INCL (±3cm); ANDIE r STR Hem, FRAC - BX; 0 texture; ±1.14

**THE
NORTHAIR
GROUP**

**SAMPLE
DESCRIPTION**

Project SOLPINDTS - 3125.02

Sampler Norm JARSON

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
AUGUST 9	17408	CHANNEL ROCK							3.0		0.003	0.10		SIR SIL - QSP (ANITE) - BL ON WALL; SER EP SURFACE & 12L WHITE; SIR SIL (SER); 5' TO 10' P4; ± 3' TO 5' P4	
	17409	ROCK							2.0		0.017	0.22		SIR SIL SIL ZONE (HORN ANITE) - BL WHITE TO WHITE COLOR; SIL MATRIX ABOUT 1.0cm; FINE - BL; LT AND BRIGHT W. ANITE (SIR COLOR?); 5' TO 10' P4 & 1' P4	
	17410	ROCK							3.0		< .001 ²⁵	0.006		SIR SIL SIL ZONE - BL WHITE TO WHITE COLOR; SIR SIL VFG MATRIX 5' VFG P4	
	17411	ROCK							3.0		< .001 ⁵	0.003		SIR SIL SIL ZONE - SIMILAR TO 17410 - SER - SER - SER - GOSSEANUS	
	17412	ROCK							2.0		< .001 ⁵	0.003		SIR SIL SIL ZONE - 1cm BL ON WALL; EP SURFACE; SIR SIL; W/ CB; CB; 5' 14' (ASQ?)	
	17413	ROCK							3.0		< .001 ²⁵	0.003		SIR SIL SIL ZONE - BL WHITE TO WHITE KSPAR? COLOR; VFG SIR SIL; W/ CB; PINKISH RED LINE - KSPAR IN SIL MATRIX; 5' TO 10' SCATTERED P4	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SUMMIT - BAYCROSS

Sampler Norm Jarvis

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 22-91	17414	CHALKY ROCK							3.0		²⁵ 2.001	0.006		SIR SIL	SIL ZONE - BL TO GRAYISH (RESIN?) WHITE COLOR; SIR SIL W/ CB, V.F.G. - MSU; S: PINKISH - LATHS (RESPAL); S: -10: PY
	17415	ROCK							3.0		¹⁵ 2.001	0.008		SIR SIL	SIL ZONE - BL WHITE TO FINE ISH WHITE COLOR, MINOR SIL A; FINE W/ PY TRAC - FINKISH S: - ASPY S.I.?
	17416	ROCK							3.0		.002	2.003		SIR SIL	F.P.? SIL ZONE (ANDIF) BL WHITE TO GRAYISH WHITE COLOR SIR SIL; S: -10: V SPAN? (PINKISH RED W/); REM - WHT LT GN SER RECTAN GO - LAR LATHS; 3" TO 5" PY
	17417	ROCK							3.0		⁵ 2.001	2.003		SIR SIL	(ANDIF) SIL ZONE - BL WHITE COLOR SIR SIL W/ SCATTERED CHA HB 1/2" TO 6" ± 1CM; W/ RESIN IN V.F.G. SIL MATRIX S: -10: PY
	17418	ROCK							3.0		⁵ 2.001	.003		SIR SIL - SER	QSP (ANDIF) - GN WHITE TO CRAMMY WHITE COLOR; SIR SIL - SER; ± 5% PY - ASPY
	17419	ROCK							3.0		¹⁰ 2.001	.003		SIR SIL	SIL ZONE (ANDIF) - GN W/ TO CRAMMY W/ COLOR; SCATTERED S: S: CH HB AND W/ SIR SIL MAT

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SULPHIDES - BRUCESIDE

Sampler J. Pol

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 24-9	17420	CHALCOPH ROCK							3.0		0.006	0.10		SIL - 1cm -	GOSSANOUS IRON OXIDE - BLK COLOR, WIDE-MOD VEG, HYDROTIC, WIDE FRAC; 4:1:1 CB 4:1:14
	17421	ROCK							3.0		0.001	0.023		MOD CB	CHALCOPH / MALDSE (ANOMALOUS) - BLK TO GRN BLK COLOR; VEG, SIL SH-MOD CB FINELY LAM - 30:1:10, < 5: THIN QZ GASH < 0.7 cm; 60: WIDE LAM; < 1:14
	17422	ROCK							3.0		0.001	0.020		MOD CB	CHALCOPH - CRIMSON WHITE, STR CALCINOUS SIL - MOD CB - CALCINOUS, VEG 3 MSJ; ANHYDRIC; < 1:14 (TOT)
	17423	ROCK							1.8		0.001	0.01		STR SIL	CHALCOPH (HONEY) - QSP - BLK WHITE COLOR, STR SIL VEG ANHYDRIC MATRIX WITHOUT MAT SIL (SIL) < 0.2cm; < 1:14
	17424	ROCK							3.0		0.001	0.01		STR SIL	QSP (ANITE) - CRIMSON TO LT MOD (STR) GRN WHITE COLOR, STR SIL - SIL STR TO 10: PAROSITE; STR SIL - STR - SIL, < 1:14
	17425	ROCK							2.6		0.001	0.015		SIL CHL	CHL SPINEL / QSP - DYE CONTACT & STR SIL - GRN COLOR - GRN CONTACT; STR CHL - MOD CB - GRN - QSP STR SIL; < 1:14

THE
NORHAIR
GROUP

SAMPLE
DESCRIPTION

Project Sulfurites - Princeside

Sampler John POC

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
17424-9	17426	CHALK Rock	Rock						3.0		¹⁵ 2.001	0.003	STR SIL	SIL Zone (OSP); BL WHITE COLOR, SIL SIL, VEG & MSD; 4M FINE; 5: P ₄	
Golden MAMMOT															
	17427	Rock							2.0		0.026	0.009	STR SIL	ANTI-XLITE - SIL Zone; BL WHITE COLOR, STR SIL; VEG SIL MATRIX ABOUT FELD (5: TO 10'); = 5: P ₄	
	17428	Rock							3.0		¹⁵ 2.001	0.009	STR SIL	SIL Zone - GRANULAR GRANULAR WHITE COLOR, STR SIL, VEG; 5' TO 10' VEG FELD A 1X20 μm A VEG GRANULAR SIL MATRIX; = 1: P ₄	
	17429	Rock							3.0		³⁰ 2.001	0.012	STR SIL	SIL Zone (ANULP) - BL GRN COLOR, MOD WITH MOD (STR) SIL - MOD CB; A WINT 5: - 10' FELD; VEG - BY GRANULAR TEX- TURE; = 1: P ₄	
	17430	Rock							3.0		¹⁵ 2.001	0.009	STR SIL	SIL Zone (ANULP) - SIMILAR TO SAMPLE 17429 WINT MOD CB; = 1: P ₄	
	17431	Rock							3.0		¹⁰ 2.001	0.006	STR SIL MOD CB	SIL Zone (ANULP) - GRN WHITE TO LT GRAYISH WHITE COLOR; GRANULAR FIN. BY TEXTURE, = 1: P ₄ AND SCATTERED GRANS	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Subvolcanics - Bruce Lake

Sampler J. D. Pol

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Reverse 21-9 GOLD	17432	Channel Rock							3.0		.001	0.03		STR SIL	SIL Zone (ANTE) - BL GRAY ALIVE Pt - MOD COLOR; VESICULAR MATRIX ABOUT FRAC 15:20; FLD 0.1 X 0.1 ± 3cm SIL SIL ABOUT S. Pt - MOD FRAC. - ± 5: MOD SITE
	17433	ROCK							0.9		.058	0.08		STR SIL	SIL Zone - BL WHITE COLOR VES SIL - MOD - 1cm FLD S: 10: Pt (ASAP), ± 1.75 SILANES OCCUR AS FRAC - TWO FILLING & SCATTERED GHA
	17434	ROCK							3.0		.0026	0.027		STR SIL	SIL Zone (ANTE) - SILVER - SAMPLE 17432
	17435	ROCK							3.0		.001 ²³	0.01		STR SIL	SIL ANTE / CHRYTE - BL WHITE COLOR, STR SIL; VES SIL MATRIX ABOUT FLD SPHERULITES? (200X) ± VESICLES, S: ± 10: MOD ± 1: Pt
	17436	ROCK							3.0		.016	0.018		STR SIL MOD CB	SIL Zone (ANTE) - BL MOD CB STR SIL - MOD CB, SIL-CB MATRIX ABOUT 0 ± 2 - 3cm, 1cm MATRIX, ± 1.75

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Sulphurets - Bruce side

Sampler J.P. Rae

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 24-9	17437	Quartz Rock							2.4		.009	0.051	MOD SIL	ADDF - BN TO BN GRAY	
		Colors Magma											LEM - Wk	COLOR; MOD SIL - FRAC, ± 2'	
													CB	- 3' Py ALONG FRAC SEAMS	
	17438	ROCK							3.0		.008	0.06	MOD - SIL	QSP - SIL BN (COSSANUS)	
													SIL	TO GRAY - BN COLOR; HEM;	
														SIL; ± 1 TO 5' Py	
	17439	ROCK							3.0		.0036	0.07	SIL SIL	QSP - BL WHITE ON FROTH	
													(SER) - Wk	SILACE, VIB, SIL SIL, ± 1'	
													MOD CB	TO S: Py ALONG FRAC AND IN SATTERED GRAIN!	
	17440	ROCK							3.0		.0035	0.08	SIL SIL	QSP - ADFF - CHALKY WHITE	
													Wk - MOD	TO BN WHITE COLOR; VIB; SIL	
													CB	SIL, S: Py FRAC FILING	
	17441	ROCK							3.0		.011	0.12	SIL SIL	SIL ZONE (FRAC ZONE - QTSW) -	
														BN WEATHERED COLOR; BL WHITE	
														FRESH COLOR; SIL SIL - FRAC -	
														BL - EXTREME; ± 1' to 10' Py	
														(ASPY)	
	17442	ROCK							3.0		.048	0.17	SIL SIL	SIL ZONE - BL WHITE COLOR	
														SIL SIL; VIB - MSW; SIL -	
														S: QCS; S: to 10' Py	
	17443	ROCK							3.0		.004	0.19	SIL IRM	SIL ZONE (QTSW) - SIL COSSAN	
													S SIL	LEM BN COLOR; VIB; FRAC	
														SIL x: 10' QCS? ± 1' to	

THE
NORTH
GROUP

SAMPLE
DESCRIPTION

Project

Sulphides - Bruce Mine

Sampler

Norm Lewis

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 24-91	17444	Chert Rock							3.0		0.04	0.14	SIL SIL	SIL Zone (QSP) - GRAYISH WHITE COLOR; CIRCULAR TEX- TURE; 5: -10: PY	
	17445	Rock							3.0		0.06	0.26	SIL SIL	(CHERT) QSP - BROWN COLOR; 1cm - mod. SIL SIL - PY; 0 texture 15: DO: XRD; FAC; 4: PY	
	17446	Rock							3.7		0.01	0.06	SIL SIL	SIL Zone (QSP) - GRAYISH WHITE COLOR; 0 texture 1: - 2cm, 15: SCATTERED PY	
	17447	Rock							3.0		0.01	0.05	SIL SIL	SIL Zone (QSP) - GRAY COLOR SIL SIL, VES MSV, WH TO MOD FAC; 5: OS, 4: 5% PY (CHERT) ALONG FAC	
	17448	Rock							3.0		0.01	0.06	SIL SIL	SIL Zone (QSP) - LT GR WHITE COLOR, VES MSV - PY TIC; 5: SCATTERED PY	
	17449	Rock							3.0		0.01	0.06	SIL SIL	SIL Zone (QSP) - LT GRAY- ISH WHITE COLOR; VES - MSV APHAUTIC; 5: -10: PY CASE	
	17450	Rock							3.8		0.01	0.06	SIL SIL	SIL Zone - SIMILAR TO Sample 17449	

**THE
NORTHAIR
GROUP**

**SAMPLE
DESCRIPTION**

Project Goldenville - Bruce Side

Sampler Norm Janson

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
11 Nov 55 24-91	17451	CHINA ROCK ROCK							2.5		0.08	0.46		STK SIL	SIL ZONE (OSP) - GRANULATED WHITE COLOR, STK SIL, VFG 5' QS; WIC FINE; 5' G 10' PY WIC ± 1 CM - WIC MAY STAIN
	17452	ROCK							2.0		0.05	0.07		STK SIL	OSP - BUFF WHITE COLOR STK SIL - SER, MID - SIL WH VFG ID TEXTURE, ± 1.17
	17453	ROCK							2.8		0.10	0.12		STK SIL	SIL ZONE (OSP) - 3/4 F GFA FINE ± 5' QS 1/2 WIC COLOR, VFG MMSV, ± 1.17
	17454	ROCK							3.0		0.02	0.05		STK SIL	SIL ZONE (OSP) - GRANULATED WIC COLOR, VFG GRANULATED TEXTURE ± 5' PY - TOP - G2
	17455	ROCK							3.0		0.035	0.07		STK SIL	SIL ZONE (OSP) - GRANULATED WIC COLOR ± 5' QS FINE; GRANULATED TEXTURE, 0 ± 2cm; SIL
	17456	ROCK							3.0		< 0.01 ²⁵	0.05		STK SIL	SIL ZONE (LIMITED) BUFF LIMBY GRAY COLOR; VFG MMSV FINE 1.5' QS; WIC FINE; ± 1.17
	17457	ROCK							3.0		< 0.01 ¹⁰	0.04		STK SIL	SIL ZONE (HFF) - GRAY TO GRAY WIC, VFG MMSV FINE, ± 1.17
	17458	ROCK							3.0		< 0.01 ¹⁰	0.036		STK SIL - SER	OSP - 1/2 WIC COARSENESS SER 1 CM - SIL SER - ± 1.17

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Saravali - Bridge Side

Sampler DA P

Date	Sample No.	Type	Location				Sample Data			Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
August 25 91	17459	quartz rock							3.0		10 4.001	0.01	Sil Sil	Sil Zone - OSP (ANOP?) - BL WHITE COLOR; STR SIL GRANULAR TEXTURE; 4.1, 5.14
	17460	ROCK							3.0		20 4.001	0.01	Sil Sil	OSP (QTSW-QUAN) - BL WHITE COLOR; STR SIL; FRAC & AX 4.1, 7.5, OS, 5. - 10' PL ALONG FRAC & SCATTERED GRAIN
	17461	ROCK							3.0		15 4.001	0.01	Sil Sil	OSP Sil Zone (CHRYTIF) - WILDT BL WHITE; STR SIL, 5. - 10' OS; 5. - 10' 14' FRAC FILLING; KNOTTING CHRYTIF (VIB - MS) HYDRAULIC SIL MATRIX
	17462	ROCK							3.0		25 4.001	0.04	Sil Sil	Sil Zone - CHRYTIF - BL WHITE; BL COLOR; STR SIL W/M MATRIX; FRAC, 4.1, 5.14 14 AS SCATTERED GRAINS
	17463	ROCK							3.0		1005	0.04	Sil Sil W/M CB	Sil Zone (OSP) - CHRYTIF WHITE COLOR; STR SIL, W/M CB, SA, 5. - 10' 14' ALONG ST FRAC PLATS
	17464	ROCK							3.0		1008	0.27		Sil Zone (OSP) - BL WHITE TO CREAMY WHITE COLOR; W/M; STR SIL (SIL); 4.5' 14' PLATS

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SUBJECTS - BRUCE SIDE

Sampler NORM LARSON

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
NOV 25 91	17465	CHANGING ROCK							3.0		0.019	0.10		STK SIL	SIL ZONE (QSP) - 30% GRANITE WHITE COLOR, STK SIL VEG. MSH GRANITIC, 10-15% PYROCLASTIC CL. PY CHANGING ROCK?
	GOLDEN MARMOT														
	17466	ROCK							1.0		0.005	0.08		STK SIL	SIL ZONE (QSP) - 40% WT VEG. MSH GRANITIC SI. MARMOT VEG. W. D. FROWN W. FROWN; 2: P1
	17467	ROCK							3.0		0.01	0.10		STK SIL MSP: SIL	SIL ZONE (QSP) - 50% WT SAMPLE 17466 2: P1 LOCALLY 10: P1
	17468	ROCK							3.0		0.001	0.035		STK SIL	SIL ZONE (QSP) - PL WHITE (SER) 7% GRANITE WHITE COLOR; VEG; 5: 2: 10: SCATTERED P1 (ASPY?)
AUGUST 27 91	17469	ROCK							3.0		0.001	0.03		STK SIL	SIL ZONE (QSP) - GRANITE WHITE (SER) COLOR; A TEXTURE 0: 2: 10: SH, 5: 10: VEG P1
	GOLDEN MARMOT														
	17470	ROCK							3.0		0.013	0.02		STK SIL	SIL ZONE (QSP) - GRANITE GN (SER) WHITE COLOR; SH; VEG. FROWN A TEXTURE; 2: 10: 5: P1 GRAND
											0.015				

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

Sulphides - Breccia

Sampler

Norm Larson

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Nov 27-9	CHINAPEL 17471	ROCK							3.0		2.001	0.02	STIR SIL (SER)	SIL ZONE (QSP) - CREAMY WHITE COLOR; SH, VEG & TEXTURE; S: PY	
	17472	ROCK							3.0		1.001	0.02	STIR SIL (SER)	SIL ZONE (QSP) - GARNISH COLOR, STIR SIL, VEG & TEXTURE S: SCATTERED PY	
	17473	ROCK							3.0		1.002	0.15	STIR SIL (SER)	SIL ZONE (QSP) - CREAMY GR WHITE COLOR, VEG, S: ±1; D. HANDED QS; ±1 - S: PY	
	17474	ROCK							3.0		2.001	0.02	STIR SIL	SIL ZONE - GRN TO BL GRN COLOR; CREAMY APPEARANCE, STIR SIL, VEG ^{FRAC} MSV; ±1 - S: PY	
	17475	ROCK							3.0		1.001	0.02	STIR SIL	SIL ZONE (QSP) - GARNISH WHITE TO BL WHITE COLOR; STIR SIL, VEG - MSV, HEM FRAC; & TEXTURE, S: PY	
	17476	ROCK							3.1		1.001	0.006 0.006	STIR SIL	SIL ZONE (QSP) - GARNISH WHITE TO BL WHITE COLOR; STIR SIL, VEG FINE D PY- TEXTURE, S: -10 VEG PY	
	17477	ROCK							3.0		1.001	0.006 0.006	MOD STIR SIL (SER)	SIL ZONE (QSP) - LT GR WHITE TO BL WHITE COLOR; GOOD A TEXTURE; FINE ±1 - 2: QS; ±1 TO S: PY	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SILVERMINE - RIVER SIDE

Sampler NORM JARVIS

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 27-91	17478	Compact Rock							3.0		20 4.001	0.01		Alteration	SIL ZONE (QSP) - BL WHITE TO GREEN WHITE COLOR; VIB & SH & TAC; S: 10:05, S: 15:14
	17479	ROCK							3.0		0.02	0.06		Alteration	GREEN ZONE (SIL ZONE - QSP) BL COLOR, SIL W, SH, S: 4:14
	17480	ROCK							3.0		10 4.001	0.02		Alteration	SIL ZONE (QSP) - BL WHITE COLOR, VIB & SH & TAC; S: 10:05, S: 15:14
	17481	ROCK							3.0		5 4.001	0.01		Alteration	SIL ZONE (QSP) - BL WHITE COLOR; VIB & SH; S: SCAT TAC & GRASS & TAC
	17482	ROCK							3.0		5 4.001	0.009		Alteration	SIL ZONE (QSP) - BL WHITE COLOR, VIB & SH - TAC - TAC, S: 10: SCATTERING CURVE
	17483	ROCK							3.0		5 4.001	0.006		Alteration	SIL ZONE (QSP) - BL WHITE COLOR, VIB & SH; S: 10:05 S: 15: DISS SIL PY
									3.0						

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

LEGEND: A = APHANITIC
α = APHAN-FERR
β = 1 gray-white

γ = 1 gray-green
φ = 0.2 gray-green

Q = 1.5% stringer
M = 1.5% stringer
ST = 1.5% stringer

QP = 0.5 pyrite

STEVE R. IS #5
NORM LARSON SAMPLE
MIKE H. DESCRIB

Project WOLDEN MINING

1/2

Sampler

Date 1991	Sample No.	Type	Location			Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
27 AVE	17484	ROCK							3.0		¹⁰ 2.001	0.003	S SL	α BQP, SL, 1-1.5% 3% SSC, 1-2% py
		Golden Marmot												
	17485	ROCK									¹⁰ 2.001	0.009	M SL	α BQP, SL, 1-3% SSC
	17486	ROCK									⁵ 2.001	0.01	S SL	α BQP, SL, 1-5% SSC, py
	17487	ROCK									⁴⁵ 2.001	0.02	S SL	α BQP, SL, 5-9% py
	17488	ROCK									¹⁰ 2.001	0.17	S SL	α BQP, SL, 3-5% SSC py, 3% SSC
	17489	ROCK									⁵ 2.001	0.12	S SL	α BQP, SL, 5% SL, 1.5%
	17490	ROCK									⁵ 2.001	0.07	S SL	α BQP, SL, 2-1% py, ST
	17491	ROCK									.001	0.03	S SL	α BQP, SL, 3-5% DSS py, 1-2% SSC
	17492	ROCK									.001	0.04	S SL	α BQP, SL, 3-5% DSS, py, 1% SSC
	17493	ROCK									³⁰ 2.001	0.07	S SL	α-α BQP, 1% SSC 3-4% SSC, 3-1% DSS, py

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project GOLDEN MARMOT

LEGEND p. 1/2 2/2

STEEL R.O.S. THIS
NORM - SAMPLER

Sampler MIKE H. - DESCRIPTION

Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
27 AUG	17494	ROCK										20 4.001	0.035	S SIL	x 3 QP, SL, 1-2% SSC 10-12% STG PY
	17495	ROCK										10 4.001	0.07	S SIL	x 3 QP, SL, 2-4% DISS PY, 1-3% SSC
	17496	ROCK										10 4.001	0.04	M ³ SIL	x 3 QP / QSP SL, B9 3-5% PY, 1-6% SSC
	17497	ROCK										10 4.001	0.05	M ³ SIL	x 3 QSP, SL, 3-4% DISS PY, SL
	17498	ROCK										5 4.001	0.05	M-S SIL	x 3 QP, WIK SCR, 4-6 DISS PY, SL
	17499	ROCK										5 4.001	0.03	B SIL	x 3 QP, WIK SCR, 2-4% DISS (cube) PY, SL
	17500	ROCK										20 4.001	0.03	S SIL	x 3 QP / QSP WIK SCR, 5-7% PY STG, SL
August 29, 91	17551	ROCK										4.001	0.07	SIR SIL	SIL zone (QSP) - ANTE-RT BL WHITE COLOR; VEG SIR SIL MATRIX WITH 15% N ABOUT A - A = 6cm
	17552	ROCK										4.001	0.05	SIR SIL	SIL zone (QSP) - GRAYISH TO BL WHITE COLOR; VEG SIL MATRIX; 4% T.S. D.F. 2cm; 1% T.S. PY

THE
NORTH
GROUP

SAMPLE
DESCRIPTION

Project Sulphides - Beccleside

Sampler NORM LARSON

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Apr 28-91	17553	ROCK										20 1.001	0.06	SIL SIL	SIL ZONE - GRAYISH WHITE COLOR; VFE & MSU W/ PAC; 10:7:20: VFE P1
	17554	ROCK										0.02	0.06	SIL SIL	SIL ZONE (QSP) - BL WHITE COLOR; SIL SIL VFE, ± S:QS ± S: P1
	17555	ROCK										0.01	0.09	SIL SIL	SIL ZONE (QSP) - BL WHITE COLOR; VFE & MSU, ± 1:5:1
	17556	ROCK										0.02	0.08	SIL SIL	SIL ZONE (QSP) - BL WHITE COLOR; VFE MSU & W/ PAC; ± 1:2:05; S: -10: P1
	17557	ROCK										0.03	0.10	SIL SIL	SIL ZONE (QSP) - BL WHITE COLOR; VFE - MSU; MINOR QS ± 1:; S: -10: P1
	17558	ROCK										0.03	0.07	SIL SIL	SIL ZONE (QSP) - BL WHITE COLOR; SIL SIL, VFE - PAC - JATED, ± 1:05; S: ± 10: P1
	17559	ROCK										0.07	0.11	SIL SIL	SIL ZONE (QSP) - SIMILAR to 17558 with S: QCV ± 2" ± 3: MINOR QS → PAC

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SOLPAGES - BAGESIDE

Sampler Noon Jensen

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 23-91	17560	ROCK									20 2.001	0.08	STR SIL	SIL ZONE (QSP) - BL WHITE TO GRAY COLOR, STR SIL, VEG & MSV; S: 1.10: 1.14	
	17561	ROCK									5 2.001	0.02	STR SIL	SIL ZONE (QSP) - BL WHITE COLOR, STR SIL - VEG, MSV, S: 1.10: 1.14	
	17562	ROCK									5 2.001	0.04	STR SIL	SIL ZONE (QSP) - BL WHITE COLOR; STR SIL VEG, MSV	
	17563	ROCK									20 2.001	0.38	STR SIL Wk. MOD SAR	QSP - CRACKLY WHITE COLOR, STR SIL - Wk. MOD SAR, VEG & SA; S: 1.14	
	17564	ROCK									20 2.001	0.29	STR SIL	SIL ZONE (QSP) - BL WHITE COLOR STR SIL VEG - MSV, S: 1.10: 1.14 S: SCATTERED 1.14	
	17565	EXPLOR.									15 2.001	0.04		BETTY COPPER - INTERMEDIATE VOLCANIC CLASTIC 1.14	
	17566	ROCK									100	1.17		QSP - MILKY WHITE, VEG & FRAX, S: 1.10: 1.14 - 1.14 WITH Wk. MOD. MAL STAIN S: 1.10: 1.14 & 1.14	
	17567	ROCK									0.07	0.48 0.48	STR SIL	SIL ZONE (QSP) - BL WHITE COLOR, VEG & MSV; S: 1.10: 1.14	

THE
NORSHAIR
GROUP

SAMPLE
DESCRIPTION

Project SULPHURTS - BRUCE SIDE

Sampler Noem Jansen

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag			
August 29, 91	17568	SOIL											.005	0.47	SIL SIL	OSP - BL WHITE COLOR SP SIL; ± S. WS BRN; ± 1' ± 10' LOCALLY 10' ± 1' WS ± 1' TET-BN
	GOLDEN MARMOT															
	17569	GRAB ROCK											.004	0.03	-	TINTED DARK VOLCANIC GREEN - LT GRAY GREEN, OR - FLD MATRIX; ± 1' ± 5' ± 10' BROWN GRAN- ULES, ± 1' ± 5' PY-ASP
	17590	GRAB ROCK											³⁰ ± .001	0.03	SIL SIL	CHERT IF - DULL GRAY LIME COLOR; SIL SIL - VEG. MSU APLANTIC, ± 1' PY
August 29, 91	17571	GRAB ROCK											.001	0.66	VN	OCV XCTING ANDRE - ERM- ISH WHITE, OR-OR GALLI; TN ± 5cm WIDE; 3' TET- GN-PY
	GOLDEN MARMOT															
August 29, 91	17751	ROCK											.003	0.07	SIL SIL	CHERT IF - DULL GN GRAY COLOR, OR-SIL COMPOSITE 5' - 10' PBD, ± 1' - 2' PY
	GOLDEN MARMOT															
	17752	SOIL											¹⁰ ± .001	0.04	MD (SIL) SIL	ASTF-XTE (F.P.) - GN GRAY COLOR; MD (SIL) SIL - ERM NAT FZP TEXTURE; 15' PBD IN OR-FLD MATRIX; ± 1' - 2' PY-ASP ± 1' ALONG FRAC OR 15' VEG JSS G-3AWD

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Sulphides - Bayside

Sampler Norm Janson

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 29-91 GOLDEN MOUNT	17573	ROCK										0.06	1.46		SIL SIL QTSW - MILKY WHITE QUARTZ W/ GR, FRAC 50% G.W. US 2.1 - 2.14 - TET - W/ MIN SILIC
August 31-91 GOLDEN MOUNT	17572	ROCK										0.05	0.03		W/ INTER SIL ANDIF - MITE (F.P.) - HT EN T EN GRN COLOR; W/ SIL INTER COMP; SUB-ROSP WITH FERR 10" T 15" ± 2cm; ± 1" T 1.4
	17573	ROCK										0.12	0.12		SIL SIL QTSW - DTSW - BL WHITE T/ BL WHITE COLOR; SIL SIL, 20" T DS' OS, ± 1" T 2" PY & ± 1" CM - TET
	17574	ROCK										0.03	0.08		MID - STR SIL - CB ANDIF - BUFF T SPOTTY EN BLUE COLOR, VFB MID SIL - CB; MINOR SPARS ± 5" > ± 5" 420WSP, ± 1" PY
	17575	ROCK										0.03	0.06		SIL SIL W/ GR QTSW - DTSW - BL WHITE COLOR SIL SIL; BL - FRAC TEXTURE; CR - 302 - HGT 0.2 "CLUST" 1CM - W/ FRAC, ± 1" PY
	17576	ROCK										0.001	0.009		NOTE - HT EN T/ GRN EN COLOR; MID SIL WITH S. T W/ PERMANENT D - TYPIC TEXTURE D ± 2cm, 10 TUS W/ SIL 3.12 D ± 1" PY

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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

Sulphide - 3 Success

Sampler

[Signature]

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 29-91	17577	Rock									.006	0.58		Fine Sil	OTUN-OTSW - BL WHITE COLOR
	(Gossan) Memento										.0064				OT - COMP; FRAC 1X.M; ±1.74
	17578	Rock									.001	0.03		Med Sil	ADDFC - LT GR (SIL) COLOR
														SIL	ADDFC - SIL VFC - BLK
															15% MSN, WIC FRAC, ±1.44
															0.5; ±1.74
Sept 2-91	17579	Rock									.012	41.70		SEA SIL	OTUN-OTSW - BL WHITE
	Gossan Hill														COLOR; SEA SIL SEA FRAC;
															3x: 5" x 10" P4 & 2" x
															4" TET
	17580	Rock									.011	1.00		SEA SIL	OTUN - BL WHITE COLOR
															± 80% DS-QV - SEA SIL;
															2" x 5" P4 & ±1.74
Sept 4-91	17581	Rock									.402	23.30		SEA SIL	OTUN-OTSW - BL WHITE COLOR
	Gossan Hill														SEA SIL VFC FRAC; ±1.3-
															TET - P4
	17582	Rock									.602	17.9		-	OTUN - BL WHITE COLOR
															SEA SIL; VFC & FRAC; ±1.34-
															TET
	17583	Rock									.099	123.1		SEA SIL	OTUN-OTSW - BL WHITE COLOR
															TO BL COLOR; SEA SIL, FRAC-DS
															±1.70 3" P4-TET

THE
NORHAIR
GROUP

SAMPLE
DESCRIPTION

Project SOLARWIS: MARCESIDE

Sampler HQ PAL

Date	Sample No.	Type	Location				Sample Data				Assay Data				Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Zn	Alteration	
August 17, 1974	17331	Rock							10	124	2.001	.006	51	MOD - STR	ANHYD. VOLCANICLATIC; WHITISH W/CO	
	Golden Mammoth													CB	ON FRESH SURFACE; 15: T. 25:	
														(BOTH CORN)	Q12 - Q3 A = 2 CM; A IN AN	
															100% - DV. 1 KM MATRIX; MINOR CHL	
															S: 2% CHL METABIC SIZE 1 KM 4: 1. 24	
	17332	Rock							55	201	.002	.12	20	STR SIL	CHERT - SURF WHITE COLOR; 45	
															STR SIL; 11% APPLANTIC	
															1: 1. 5: 1. 24 - LOCALLY 15: 1. 24	
															1 KM ON FRAC	
	17333	Rock							95	102	.003	.14	8	STR SIL	QSP? - GR. WHITE COLOR	
														(SIL)	VFG 1/2 MOD SD - W/ LAM;	
															APPLANTIC; 1 KM - LIM FRAC, 5:	
															SCATTERED PY	
	* 17334	Rock							805	61	.025	.18	14	STR SIL	Q12V - PY - GRAY WHITE TO	
															BROWN COLOR; VFG Q12 WITH	
															25: 1. 35: VFG PY 2. 4. 1. 24	
	* 17335	Rock							110	69	.004	.06	7	STR SIL	CHERT - SURF 2. 3 COLOR? 11% 2	
															STR SIL; 11% APPLANTIC; MIN 100% 1	
															LAM: < 1. 1. 24	
August 9, 1974	17336	Rock									.027	.21		STR SIL	Q12SW (Q12V) - PART OF Q12SW 20.0	
	Golden Mammoth														GRAYISH WHITE COLOR; STR SIL;	
															FRAC; 2: 1. 3: 1. 24 1. 24	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SUMMITTS - PROCESIDE

Sampler J.P. Pol

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
1985/11/15	17337	Rock										.022	0.35	STR SIL	QTSW - QSP - PART OF QTSW 4C 20: QSP - GRAYISH WHITE COLOR STR IRAC - MOD PY, <1: 2: PY (TET)
	17338	Rock										.0015	0.03	STR SIL	CHERT - GRAYISH BROWN COLOR VEG & MSU - HYDROTIC; WIC 46 IRAC WITH WIC, <1: 2: PY FRY FILLING & DIS. GRAIN
	17339	Rock										.008	0.18	STR SIL	QTSW - BK WHITE - GRAYISH WIC; 20: QSP - WIC 46 SA; FRAC; <1: 2: PY <1: TET
	17340	Rock										2.001	0.03	STR SIL	SIL ASDF - VOLCANICLASTIC, (GRANULATED) 13E WHITE COLOR; FRAC WIC - WIC 5: SCATTERED PY (TET?)
	17341	Rock										.007	0.03	STR SIL	CHERT PERI WIC - BORE T GRAYISH WHITE COLOR, WIC & MSU, HYDROTIC, <1: PY
	17342	Rock										.010	1.31	STR SIL	QTSW (QSP) - GRAYISH WHITE WIC 13; STR SIL, >25: OS IRAC - WIC IRAC, <1: PY

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SULPHIDES. EXPRESOR

Sampler J.P. PUL

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
AUGUST 13-91	17343	ROCK									0.15	0.10		STR SIL	QFSW - GRAYISH WHITE TO BL WHITE COLOR; STR SIL & VES 20:1:5; 30:1:5; 10:1:5
Golden Magnet															
	17344	ROCK									0.06	0.07		STR SIL	Asst. volcanoclastic, grayish white color; STR SIL; 5:5 10:1:5; 5:5; 10:1:5 20:1:5; 30:1:5; 10:1:5 2:1:1; 10:1:5; 10:1:5
	17345	ROCK									0.14	0.14		STR SIL	QSP - BL WHITE TO GRAYISH WHITE COLOR; STR SIL; VES 5:5; 10:1:5; 10:1:5 WITH 4:1:2; 10:1:5
	17346	ROCK									0.32	0.05		STR SIL	QSP - BL WHITE TO GRAYISH WHITE COLOR; STR SIL; VES 5:5; 10:1:5; 10:1:5 10:1:5; 10:1:5; 10:1:5
	17347	ROCK									0.18	0.11		STR SIL	QSP - GRAYISH WHITE TO GRAYISH WHITE COLOR; STR SIL; STR SIL; 5:5; 10:1:5 DISS Py AS STR EQUIVALENT GRAIN
AUGUST 20-91	17348	CHANGED ROCK							3.0		0.14	0.08		STR SIL	QSP (2A) - BL WHITE TO BL COLOR; STR SIL - OXIDIZED, 3:5 Py - CLARITY TRF
Golden Magnet		GM-4													

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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project SQUAWTS - BRICESIDE

Sampler J. [Signature]

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 20 1991	17349	CLANNA ROCK GOLDR MARMOR							3.0		.009	0.05	STR SIL SER	QSP (2A) - BL WHITE TO BW COLOR; STRONG HEM (LUNATION) ±1: 10: PY; 8 MUDR OV ±5: 15C - SCATTER PY	
	17350	ROCK							2.8		.003	0.05	MOD SER CB	QSP (2A) - LTEN WHITE; MOD (STR) SER - CB; VEG & SA; MOD - STR SIL; CB FRAC; ±1: 2: PY	
	17351	ROCK							3.0		.007	0.05	MOD SER- SIL-CB	QSP AND OV (±.15C WIDE); GRANISH WHITE COLOR; 1CM BW; 15C - WIDE QTLW (STR SIL) ±5: PY & ±1: PET-SP.5	
	17352	ROCK							3.0		.016	0.13	STR SIL- SER	QSP - BL WHITE COLOR; STR SIL SER; VEG & SA; ±1: ±5: TO 10: SCATTERED PY	
	17353	ROCK							2.8		.009	0.18		CHRT - BL WHITE TO BUSE BW COLOR; VEG STR SIL, VEG - AMPHIBIC; ±1: 2: PY	
	17354	ROCK							1.9		.003	0.09	STR SIL CB&S	ANTE-VL - LT OV TO BW 1CM COLOR; STR SIL (SER); VEG; AMPHIBIC; 5: PY AS FRAC; FILLING	

THE
NORHAIR
GROUP

SAMPLE
DESCRIPTION

Project SULPHURATS - PRUCESINE

Sampler J. P. P.

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
AG 05/21-9	17362	CHANGEL ROCK							3.0		.001	0.02		WIK-MOD	NOTE - LT ON TO BN GRN
		COAL MINERAL												SER-CB	COLOR; A = 2-3cm SLABS; = 5: P120; = 1: 3: P4
	17363	ROCK							3.0		.001	0.02		WIK MOD CB (SER)	NOTE - SIMILAR TO 17362 10: 15: P120
	17364	ROCK							3.0		.001	0.015		MOD CB (SER)	NOTE - LT ON TO BN COLOR; A TEXTURE; S: 10: A = 2 3cm QZ-RD A; = 5: P120; = 1: P4
	17365	ROCK							3.0		.011	0.018		WIK-MOD SER(CB)	NOTE - LT ON BN COLOR; A TEXTURE; A = 2-3cm; WD CB
	17366	ROCK							4.0		.007	0.035		WIK-SER-CB	NOTE - LT ON BN COLOR; MOD IEM (CONGLOMERATE); INTER S: 10: P120 COMP; MSD TO WIK SH; = 1: P4
	17367	ROCK							3.0		.001	0.015		WIK SER	NOTE - LT ON BN COLOR; INTER COMP; WIK-MOD SH WITH P120 ALONG SH FACE; = 1: 2: REMNANT A; = 1: P4
	17368	ROCK							2.8		.001	0.01		MOD-CB SER-CB	NOTE - BN WT TO LT ON COLOR; FACE WITH NONHOM S: 10: DCS FACE FILLING; = 1: 2: VFE VFE P4 = 1: ASP4

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Schwartz Barren

Sampler J. [Signature]

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Eastings	Zone	No.	From (m)	To (m)	Int. (m)	Cu	As	Ag	Alteration	
AUGUST 21-91	17369	CHANGING ROCK							3.2		4.001	0.015	MOD SIL	ANDITE - LT ON T. EN WHITE	
		GOLDEN NARROW											WIL CB	COLOR, FINE WITH MINOR QCS ± 1.2; S: -10; P4 10; ± 1.14	
	17370	ROCK							2.9		4.001	0.020	MOD SIL	ANDITE - EN WHITE - GRAY	
													WIL CB	COLOR; FINE WITH QCS TRK; 2: -3; ASP4 - P4	
	17371	ROCK							3.0		4.001	0.015	MOD SIL	ANDITE - EN GRAY WHITE	
													WIL CB	COLOR; MOD - STR SIL; WIL - MOD FRC; S: -10; P4 10; ± 1 ASP4 - P4	
	17372	ROCK							4.0		4.001	0.018	MOD - STR	ANDITE - EN GRAY COLOR;	
													SIL - WIL	WIL MOD FRC; S: -10; P4 10;	
													CB	S: TO LOCALLY 10. 14	
	17373	ROCK							GRAB		0.015	0.021	STR SIL	QSP - GRAYISH WHITE	
													(SIL)	COLOR; D FINE 5: -10; N ± 2 - 3cm; S: -10. 14	
AUGUST 21-91	17374	ROCK									0.16	0.08	STR SIL	QTSW - MILKY WHITE & BASS	
		GOLDEN NARROW												WHITE COLOR; STR FRC; 10: -20 Q5, ± 1. 14	
	17375	ROCK									0.07	0.17	STR SIL	QTSW - MILKY WHITE & B2	
														15: -20: 05 WHITE COLOR; STR SIL; ± 1. 3; TR. EN ± 1. - 2; P4 12 SIL MATRIX	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Sulphides - Poudre

Sampler Sta. Pac

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
1965-22-91	17376 GOLD'S MARMS	ROCK									¹⁰ 4.001	0.006		STR SIL	OSP (AOST ADIF) - BL WHITE WIK SER COLOR: STR SIL - WIK SER, STR SA, S: SCATTERED PY
	17377	ROCK									.003	0.09			QTSW - MILKY WHITE COLOR IS: 20: UR 1.03 m. WIK SER, VEG STR SIL; S: WIK, 4.14
	17378	ROCK									¹⁰ 4.001	0.03		STR SIL	OSP - BL W/ GROSSANUS COL WIK SER, 2.22 STR SIL, 4.14
	17379	ROCK									¹⁰ 4.001	0.01		-	CHERT - BUFF WHITE COLOR, VEG, MSU APPROX. 4.14
	17380*	ROCK									.013	21.70		STR SIL	*QTSW - BROWNISH MILKY WHITE COLOR, STR SIL, VEG STR PY; IS: 20: US, S: 10: TET
	17381*	ROCK									.022	4.32		STR SIL	*QTSW - QTSW - BL WHITE COLOR; STR SIL - FRAC; S: IS: 14: AS 24 AS 170G FILLING IN Q
	17382*	ROCK									.211	16.80		-	*QTSW - MILKY WHITE COLOR, IS CM WIK; STR SIL, VEG FRAC; 2.15: TET DISS & SPHERICAL

**THE
NORTHAIR
GROUP**

**SAMPLE
DESCRIPTION**

Project Schwarz - BEGESIDE

Sampler Stephane Pouchon

Date	Sample No.	Type	Location				Sample Data			Assay Data			Alteration	Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au			Ag
AUGUST 22 91 GOLDEN MARMOT	17383	ROCK									⁷⁰ 1.001	0.09		STR SIL	QTSW (MARGINAL) - GRAY T. LF GN WHITE COLOR, FINE GRAM WITH S. T. N. US, VEG AROMATIC SERT, 3:1:2:1:1 IN US S. LWR S. T. 10: SCHEGEL P4
AUGUST 24 91 GOLDEN MARMOT	17384	ROCK									³⁰ 1.001	.07		SIL	CHEST - GRAYISH BUFF COLOR, STR SIL, VEG AROMATIC - LWR, 3:1:5:1:1
	17385	ROCK									¹⁰ 1.001	.02		SIL	QTSW - BN WHITE COLOR, STR SIL - FRAC WITH 1:1:1:1 - SRT FRAC, 1:1:1:1
	17386	ROCK									.002	.026		SIL	CHEST - BUFF GRAY COLOR, STR SIL, VEG - MSW - AROM ATIC; LWR 1:1:1:1 - 1:1:1:1
	17387	ROCK									.0175	.27		STR SIL	QTSW - BN WHITE COLOR, STR SIL, VEG 1:1:1:1, 1:1: 2:1:1:1, 1:1:1:1 FRAC FILLING; 1:1:1:1:1:1 & 1:1:1:1:1:1
	17388	ROCK									.044	3.41		STR SIL	OSP - WHTSW - BUFF T. BN WHITE COLOR, STR SIL & VEG FRAC; 2:1:1:1:1:1 & 2:1:1: 3:1:1:1:1:1 & 1:1:1:1:1:1

THE
NORTH
GROUP

SAMPLE
DESCRIPTION

Project Silverton - Baccifer

Sampler J. H. Park

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
August 27 th	17389	Rock										0.21	7.36		SIL SIL QTSW - BL WHITE COLOR; DUE S. Hem; SIL SIL & FRAC - Hem FRAC; 15' QS, P4 - FRAC WITH WTC STAGE QD. P4 X-CUTTING QD; ± 5' P4 FRAC FILLING
	17390	Rock										3.26	7.96		QTSW - MILKY WHITE COLOR; OXIDIZED; BLK-GN MIN-HZRD SILYX; KALUSIC; SIL FRAC; S: 10' P4 ± 1' - 2' QD & 1' T.S. (T-GN); SULF-DI OCCUR AS FRACTURE FILLING IN QD-DR
	17391	Rock										0.10	2.21		SIL QTSW - BLK-GN QTY COLOR; SIL COMP, WTC - MSD; P4-HZD TIC; ± 1' T.S. QS; ± 1' - 2' P4 (ASK)
	17392	Rock										0.00	2.21		SIL SIL QTSW (QTSW) - BL WHITE COLOR; SIL SIL - FRAC; WTC DQ-T 30' QS; ± 1' - 2' SCATTERED P4
August 27 th	17393	Rock										0.39	7.55		SIL SIL QTSW - QTSW - BL WHITE COLOR; 60' QS; SIL FRAC; P4; ± 5' P4 ± 1' T.S.
	17394	Rock										0.11	0.65	✓	SIL SIL QTSW - QTSW - BL WHITE COLOR; 60' QS; SIL FRAC; ± 5' P4 & ± 1' T.S.?

THE
NORHAIR
GROUP

SAMPLE
DESCRIPTION

Project Silver Lake - Nevada

Sampler HR 2L

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
August 27, 1995	17395	Rock													STR SIL OTSW - ORUND G. FINE - WHITE GOLD MINERALIZATION IN SILICEOUS, FINE GRAINED MATERIAL
	17396	Rock								0.65	21.90				STR SIL OTSW (OTUND) - PL. WHITE SIL > 95% OS. FINE GRAINED SILICEOUS MATERIAL
	17397	Rock								0.15	0.3				STR SIL OTSW - PL. WHITE SIL GOLD MINERALIZATION IN SILICEOUS, FINE GRAINED MATERIAL (SEE ?)
	17398	Rock								2.67	65.60				STR SIL OTSW - PL. WHITE SIL GOLD MINERALIZATION IN SILICEOUS, FINE GRAINED MATERIAL
	17399	Rock								1.52	34.70				STR SIL OTSW - ORUND - SIL GOLD MINERALIZATION IN SILICEOUS, FINE GRAINED MATERIAL
August 29, 1995	17400	Rock								0.35	7.58				STR SIL OTSW (ORUND) - SIL GOLD MINERALIZATION IN SILICEOUS, FINE GRAINED MATERIAL

THE
NORTH
GROUP

SAMPLE
DESCRIPTION

Project

$\alpha = \text{apatite} - \text{pyrite}$
 $\beta = 1 \text{ gpg/ubt}$

MARMAZ ZONE

ST LIMON = SL
WELL-CLEANED = WC
WR = WALL ROCK

1/2

Sampler MIKE HOLMES

Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
T277	19491 (0-1.9m)	Rock							1.9		.006	0.14	S SIL	$\alpha \beta$ QSP: 3-5% (STG) py,	
													M ARG	SL, WC	
	19492 (1.9-2.3)	Rock							0.4		.017	0.38	S SIL	$\alpha \beta$ QSP w. QSTW 10%	
													M ARG	5% (10%) 8-12% P IN QSTW, 3-5% STG py IN QSP, SL	
	19493 (2.3-3.1m)	Rock			T 277	.0054 Au	8.8 m		0.8		.016	0.26	S SIL	$\alpha \beta$ QSP w. 5% QV, 8-10	
						.19 Ag							M ARG	BLEB py IN QV, 2-3% py IN WR, SL, WC	
						.012 Au	1.2 m								
	19494 (3.1-5.9m)	Rock				.30			2.8		.003	0.19	S SIL	$\alpha \beta$ QSP w. 3% QV	
													M ARG	(CONTAINING 5-8% BLEB py), 2-3% py, SL, WC	
	19495 (5.9-7.6m)	Rock							1.7		.004	0.15	S SIL	$\alpha \beta$ QSP, 3-6% py,	
													M ARG	WC, SL	
	19496 (7.6-8.8m)	Rock							7.2		.005	0.22	S SIL	$\alpha \beta$ QSP, 1-2% py DISS	
													M ARG	SL, WC	
T 277	19497 194 (0-1.1m)	Rock							1.1		.003	0.06	S SIL	$\alpha \beta$ QSP w. < 5% QSTW,	
													M ARG	CONTAINING 5-6% FERM DISS + STG py, 3-5% DISS py OVERALL	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Legend P 1/2

2/2

Project MAR. MET. ZONE

Sampler MIKE HOLMES

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
20 AUG 1991	19498 (1.1-2.3m)	ROCK							1.2		.0055	0.51	S SIL	KB QSP @ 15-20%	
													M ARG	QSTW (5-8% py, 2-3% TETR), ML, 7-10% DISS PY OVERALL, SL	
	19499 (2.3-4.0)	ROCK							1.7		.010	0.33	S SIL	KB QSP @ 5% QV	
													M ARG	(5-8% py), 5% py OVERALL, SL	
	19500 (4.0-6.0)	ROCK							2.0		.0035	0.11	S SIL	αβ QSP, 5-10% py BLEB	
													M ARG	SL, WC	
	18051 (6.0-8.0)	ROCK							2.0		.004	0.18	S SIL	αβ QSP, 2-3% py, SL, ^{DISS}	
													M ARG	WC	
	18052 (8.0-10.0)	ROCK							2.0		.002	0.29	S SIL	αβ QSP, 4-6% BLEB +	
													M ARG	STG PY, SL, WC	
	18053 (10-12.5m)	ROCK							2.5		.004	0.38	S SIL	αβ QSP, 2-4% DISS PY	
													M ARG	SL,	
	18054 (12.5-13.6)	ROCK							1.1		.003	0.08	S SIL	αβ QSP, 4-6% STG	
													M ARG	py, WC, SL	

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279
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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

α = APHAN - FERR
 β = gray - white

SL = STR LIMON
WC = WELL FOLATED

1/2

Project MARMOT ZONE

Sampler MIKE HOLMES

Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description		
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration		
	18055	ROCK										.003	0.31	S SIL	80-90% QSTW (IN	
	(0-0.5)											.003		W ARG	QSP), SL, 1% py	
	18056	ROCK										.006	0.32	S SIL	α β QSP; SL, WC, 1-2% DI	
	(0.5-1.8m)													M ARG	py	
	18057	ROCK										.003	0.64	S SIL	α β QP; 3-5% py	
	(1.8-2.0m)													W ARG	DISS, 1-2% TETR., SL	
	18058	ROCK										.002	0.24	S SIL	α β QSP, 3-5% DISS	
	(2.0-3.3m)													M ARG	py, SL	
	END															
	18059	ROCK										.011	0.35	S SIL	α β QSP/QP, 2-4%	
	(1-1.7m)													W-M ARG	py (STE)	
	18060	ROCK										.016	1.60	S SIL	80% QSTW IN QSP,	
	(1.7-2.8m)														3-5% py STE, 2-3%	
															CPY DISS, 1-2% GAL	
															DISS, 1-2% TETR.,	
															1% Spinel?, SL	
	18061	ROCK										.012	0.11	S SIL	α β QSP/QP, 3-4% py	
	(2.8-5.2m)											.014	0.11	M ARG	DISS (10% WIRE)	
	END															

21 AUG

TZ78

TZ7A

V

2

5

THE
NORSHAIR
GROUP

SAMPLE
DESCRIPTION

Project

x = adham - brown
y = 2 py - white
z = 2 py - green

~~STR/MD~~
S/M L = STR/MD LIMON.

Faces MAGNET ZONE

Sampler MAKE Holmes

1/3

Date	Sample No. (m)	Type	Location				Sample Data			Assay Data			Sample Description	
			Claim	Northing	Eastng	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
22 AUG 1991	18069 (0-1.5)	ROCK									.008	0.42 0.38	S SIL	αBQP, 1% py, 15-20% QV (Broken, DIRTY) 2-4% py
	18070 (1.5-3.9)	ROCK									.024	2.42	S SIL QSTW	80-90% QSTW, 5-10% FINE py, go? up to 25% py, 21% MAZ, 1-2% CPY, RARE VUGS, ML 1-2% TETR
	18071 (3.9-5.2)	ROCK									.005	0.16	S SIL	αBQP, 3-6% py, DISS + SL
	18072 (14.0-15.2)	ROCK									.024	0.09	S SIL MARG	αB QP/QSP PATRIC, WR-CAL 2-3% py, DISS, SL
	18073 (15.2-18.5)	ROCK									.008	0.08	S SIL	αB QP/CHERT? GRADING into αBQP (ANDER?), 3-5% py DISS + BLEB, SL
	18074 (20.7-25.2)	ROCK									.008	0.06	S SIL	αB QP/ANDER?, 2-5% py DISS + DISS, SL
	18075 (26.8-30.0)	ROCK									.014	0.11	S SIL	S RUSTY/LIM, αBQP, 1-3% SOR, 2-4% py blebs

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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

MALMOT Zone

LEGEND P. 1/3

2/3

Sampler MKK Normes

Date 1991	Sample No.	Type	Location				Sample Data			Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
22 AUG	18076 (36-39)	ROCK									.004	0.06	S SIL	α QP, WK-PHYRIC, S (ANDES?), 2-3% PY DI
	18077 (39-42.3)	ROCK									.0016	0.06	S SIL	RUSTY WTHD, α BQSP/QP 3-5% PY blebs, WK PHYRIC → GRADES TO → APHER
	18078 (42.3-45.4)	ROCK									.008	0.19	S SIL	M RUSTY α BQSP W. W AGE APPARENT CHERT LENS SL, 3-5% PY DISS
	18079 (45.4-48.5)	ROCK									.009	0.08	S SIL	α QSP, 3-5% PY STG
	18080 (48.5-50.3)	ROCK									.012	0.11	S SIL	α BQSP (<2% SER), 3-5% PY (STG, bleb + DISS) - XTR OFTEN 1-2 mm EUMERAL,
	18081 (50.3-52.5)	ROCK									.007	0.10	S SIL	α BQSP, MOD PHYRIC, 3-5% PY blebs (2.5% SER)
	18082 (52.5-55.2)	ROCK									.015	0.27	S SIL	α BQSP/ ^{QSP} 1% GALENA, 3-4% FINE DISS PY, STR LIM
	18083 (55.2-57.3)	ROCK									.007	0.07	S SIL	α BQSP, 2-3% FINE DISS PY, W-M PHYRIC, SL

T271

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project MARNOY Zone

LEGEND P. 1/3

3/3

Sampler MKE Holmes

Date	Sample No. (m)	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
22 AUG 1991	18084	ROCK									0.08	0.08	S SIL	QSP αβ QP, 3-6% DISS + STG py, w-m PHAN SL	
T 271	(0-1.9)														
↓	(57.3-59.9)														
↑	18085	ROCK									0.17	0.24	S SN QSTW	αγ QSP w- 40% QSTW (2cm VUGS) 2-3% py, SL	
	(0-1.9)														
	18086	ROCK									0.14	0.11	S SIL	αβ QP/QSP, 5% QV, loss of chst/plot? 3-5% fine dia py	
	(1.9-2.5)														
	18087	ROCK									0.12	0.23	QV	1% GALENA, 2-3% py STG, SL	
	(2.5-3.1)														
	18088	ROCK									0.10	0.22	S SIL	αβ QP, 5-8% py BLOS w ARG + STG, 5% QV, 1% TETR SL, < 5% SER	
	(3.1-4.4)														
	18089	ROCK									0.093	0.20	S SIL	αγ QP, 1% TETR (GRAN w ARG AROUND PY), 4-6% py STG+BLOS, 5-8% QV, SL 1-2% MAL, < 4% SER	
	(4.4-6.4)														
	18090	ROCK									0.05	0.11	S SIL	αβ QP, m PHAN/LIM, 2-4% MAL, 1-3% py DISS, 1-2% py DISS TETR?	
	(6.4-7.3)														
	END														

T 269

K

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

LEGEND p. 1/3

2/3

Project maxmat zone

Sampler MIKE HOLMES

Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
24 AUG	18097 (15.5-17)	ROCK										.047	.07	S SIL	X ₂ CHERT (FRAG?) FELDSPAR(?) SPHERULES
	18098 (17-19.1)	ROCK										.001	.01	S SIL	X ₂ CHERT, WK-OXID ON M-S FT, W-FISS. CRACKS IN/OUT DIRTY W OIL LACK? (SIL SIL)
	18099 (19.1-21)	ROCK										.001	.01	S SIL	X ₂ CHERT, WK OXID ON F, M-FISS.
	18100 (21-22.4)	ROCK										.001	.006	S SIL	α-A β GP/WACK? W CHL, W OXID >30% QTZ, 1% TGP?
	18101 (22.4-24.5)	ROCK										.001	.003	S SIL	α-MERK, BEN. GP/WACK W CHL, WK OXID, W-M PYRIC, WARG >30% QTZ
	18102 (24.5-27) END	ROCK										.001	.003	S SIL	α-MERK & GP/WACK W CHL, W-M PYRIC, WK OXID W ARG

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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

α = APHAN - FIELDS σ = 1 grey-green
 δ = L. mod grey ML = mod L.M.
 β = 1 grey-green ML STE = STRONG OR
 GOLDEN MARBLE

ϕ = DK GRAY-GREEN

1/3

Sampler MIKE HOLMES

Date	Sample No.	Type	Location			Sample Data			Assay Data			Sample Description		
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
27 AUG ↑	18118 (2.5-4.4)	ROCK									0.07	0.68		10-15% QSTW, 5-8% py, 1-2% py in QSTW, WK. SEC., 2-4% polyh.?
	18119 (4.4-6.4)	ROCK									0.04	0.15		S SIL 50-60% QSTW (2-4% QSTW) DISS py, 2-4% polyh. 15-25% α QSP (5-7% DISS py)
	18120 (6.4-8.6)	ROCK									0.07	0.20		S SIL 30-40% QSTW (2-4% QSTW) DISS py, ZONES OF σ (py UP TO 20%), mod L.M. 20-30% α QSP, 5-10% py DISS.
	18121 (6.6-11.3) END	ROCK									0.06	0.10		S SIL α QSP, WK CHL, 8-12% DISS py, ML
	18122 (32.3-35.3)	ROCK									0.01	0.01		S SIL α -MICA ϕ FELDSPAR M PROP. PROPHERY INTUS., SUB-CONCENTRAL PHENOS < 4mm EXHIBIT LT. YELLOW-GRN EP ALT., 1% HEM
	18123 (35.3-38.6)	ROCK									0.06	0.06		S SIL α QSP/QP, WK CHL/SEC, 5-6% DISS py, MLIM.

T 265

T M H 91-3

Date 1991	Sample No.	Type	Location			Sample Data			Assay Data			Sample Description		
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
27 AUG	18124 (38.6-39.8)	ROCK									20 1.001	0.02		FOUND DYKE (39.3-39.5) α QP QSP- EYE-RICK (<0.01mm) DIABASE DYKE 1.2% py DISS in dirty α QP, 1-3% py dno.
	18125 (39.8-41.1)	ROCK									30 1.001	0.03	2	SSIL α BQP/QSP, w-med W CHL SER, 3-5% py 2% DYKE (<0.01mm) QP EYES, SLIM
	18126 (41.1-53.2)	ROCK									30 1.001	0.03		S SIL α QP, wk-ser, W CHL 2-3% DISS py, SL
	18127 (53.2-55.1)	ROCK									20 1.001	0.02		DYKE (54-54.25) α DIABASE SSIL DYKE 1.7% α BQP, W CHL WK-SER, 2-3% DISS py, SL
	18128 (64.7-65.0)	ROCK									0.05	0.23		A SIL α QP/QSP, 5-7% W CHL DISS py, SLIM
	18129 (65.5-69.3)	ROCK									0.10	0.15		S SIL α QSP/QP, MED LEGAL? E-10% DISS py, M-S LIM
	18130 (82.7-85.9)	ROCK									0.055 0.05	0.10		S SIL α QSP/QP, STR DECOM? 3-5% DISS py, SLIM

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Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
27 AUG	18131 (85.9-88.9)	ROCK										2 _σ 2.001	0.006	DYKE	(1.5-2) to plane of the diabase dyke capped out in 18127, quite blocky, αβ < 1% py, W-CIL (88.2-88.9) → αβ QF, W SER, 1-2% DISS py.
	18132 (88.9-91.7)	ROCK										.006	0.07	S SIL	αβ QF, MOD DECOMP, W-CIL 5-7% DISS py.
	18133 (94.2-95.1)	ROCK										.006	0.04	DYKE	Vα - αβ diabase dyke, < 1% DISS py.
	18134 (91.3-105.5)	ROCK										.0015	0.02	M SIL	αβ QF, SER/LLH, W-M DECOMP, 5-10% DISS py.
	18135 (108.3-113.4)	ROCK										.0011	0.02	M SIL	αβ QF, SER/LLH, W-M DECOMP, 5-10% DISS py.
	* LAST SAMPLE, BUT TRENCH ENDS @ 286 m.														

TRENCH 3 / COUNT

Date 1991	Sample No.	Type	Location				Sample Data				Assay Data			Sample Desc.	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
28 AUG	18146 (5.1-6.9)	ROCK									.014	0.18	QV	60-70% QSTW 10-12% poly bas/A 2-3% DISS py, WL	
	18147 (6.9-8.6)	ROCK									.045	1.60	QV	60-70% α WHITE QSTW 10% poly bas/ARSPY 3-5% DISS py, WL	
	18148 (8.6-10.2)	ROCK									.009	0.09	QV	60-70% α WHITE QSTW 15-20% poly bas/ARSPY 5-8% DISS py	
	18149 (10.2-12.6) END	ROCK									.012	0.92	QV	40-50% α WHITE QSTW IN α BQSP, 5-8% DISS py, 20% LCL, WL	
	18150 (6.9-8.6)	ROCK									.004 .005	0.22	S SIL	SL, M FC, α BQSP 1-2% DISS py - TAKEN 17M @ 094° FROM T264	

T 264 cont

11/13

1/3

Date 1991	Sample No. (m)	Type	Location			Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration
28 AUG	18139 (0-3.2)	Rock									0.14	0.34	M-S SIL	SL, S Fr, α BQSP, 8-10% DISS + STG py, 3-5% QV < 3cm SILICON 2.8-3.2 81
	18140 (3.2-6.6)	Rock									.016	0.737	M-S SIL	SAME AS 18139
	18141 (6.6-9.2)	Rock									.041	0.32	M-S SIL	SAME AS 18139
	18142 (9.3-11.1) END	Rock									.051	0.45	M-S SIL	SL, S Fr, S "BAKED" (IE: W-M FISSILE, OFF- WHITE) QSP, 5-8% py DISS, 2-4% QV < 3cm
	18143 (1.0-2.0)	Rock									0.021	0.16	QV	80-90% ^{4.5} QSTW, < 1% SER, 8-12% polybas py?, 2-4% DISS py, WL
	18144 (2.0-3.8)	Rock									.011	1.27	QV	80% QSTW ^{white} < 2% SER, 10-15% polybas / Arseno py, WL, 2-4% DISS py
	18145 (3.8-5.1)	Rock									.026	0.18	QV	70-80% ^{white} QSTW, < 2% SER, 10-15% polybas / ARSENOPY + ITC?, 2-3% DISS py

T 263B

T 264A

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Eastng	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
08/22/91	16282	Chip					16282	3.0	6.0	3.0		.006	.07	WK Sil	1e (And. Tuff) - v. weak planar fabric, 0.5-1.0% Py (blebs)
08/22/91	16283	Chip					16283	6.0	9.0	3.0		.0044	.07	WK-Med Sil	1e (And. Tuff) - weak planar fabric, med. grain, ~1-2% Py (blebs)
08/22/91	16284	Chip					16284	19.0	22.0	3.0		.0076	.03	WK Sil	1e (And. Tuff) - no visible fabric, fine grained, 0.5-1% Py
08/22/91	16285	Chip					16285	25.0	28.0	3.0		.011	.033	Mod Sil	1e - weak planar fabric, med. grain, 1-2% Dissemin Tr Cap
08/22/91	16286	Chip					16286	38.0	40.0	2.0		.056	.11		Laminated Qtz Vein (possibly ribbon text), well defined fabric, 15-20% Py (in bands parallel to & v. laminae), Tr Tet?
08/22/91	16287	Chip					16287	50.0	52.0	2.0		.012	.04	WK Ser	Laminated Qtz Vein within 1e, ~1-2% Py to laminae

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
	16267	Chip					16267	1.0	4.0	3.0		.0017	.023	Weak Sil	1e (And. Tuff) - weak phreatic fabric, ~1% Dissem Py
	16268	Chip					16268	4.0	7.0	3.0		Tr	.012	Mod Sil	1e (And. Tuff) - well-developed planar fabric
	16269	Chip					16269	7.0	10.0	3.0		Tr	.012	Mod Sil	2-3% Dissem Py + Tr Cpy
	16270	Chip					16270	10.0	13.0	3.0		Tr	.012	Mod Sil	QSP - strong planar fabric, 3-4% Dissem Py
	16271	Chip					16271	13.0	16.0	3.0		Tr	.012	Mod Sil	QSP - well-developed foliation
	16272	Chip					16272	16.0	19.0	3.0		Tr	.07	Mod Sil	(Si), 3-4% Dissem Py
	16273	Chip					16273	19.0	22.0	3.0		.0017	.64	Str Ser	QSP - intense shearing, narrow clay (kaol?) rich intervals ~1% Dissem Py
	16274	Chip					16274	22.0	25.0	3.0		Tr	.023	Mod Sil	QSP - W.D. fabric, limonite weather. ~1% Dissem Py
	16275	Chip					16275	25.0	28.0	3.0		.0017	Tr	Str Ser	QSP - Strong Si fabric
	16276	Chip					16276	28.0	31.0	3.0		Tr	Tr	Mod Sil	1-2% Dissem Py, Tr Cpy
	16277	Chip					16277	31.0	34.0	3.0		Tr	Tr		identical to previous sample
	16278	Chip					16278	34.0	37.0	3.0		Tr	Tr		" " " " " "
	16279	Chip					16279	37.0	40.0	3.0		Tr	.02	Mod Sil	QSP - Well-defined Si fabric, ~1% Py
	16280	Chip					16280	40.0	43.0	3.0		Tr	.02	Str Ser	QSP - Very fissile, narrow clay rich sections, 0.5-1.0% Dissem Py
														Mod Sil	ident. to previous description

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
08/20/91	16256	Chip						1.5	4.5	3.0		.00044	.0146	Str Sil, Ser	Well-defined planar fabric, very fissile, 0.5-1.0% Dissem Py
08/20/91	16257	Chip						4.5	7.5	3.0		Tr	.012	Str Ser, Sil	Strong planar, fissile fabric, limonitic weathering 0.3-0.6% Dissem Py
08/20/91	16258	Chip						7.5	10.5	3.0		Tr	.012	Str Ser, Sil	Strong planar fabric, limonitic weathering, 0.5-1.0% Dissem Py
08/20/91	16259	Chip						10.5	13.5	3.0		Tr	.012	Mod Ser, Sil	Well-defined planar fabric 0.2-0.5% Dissem Py
08/20/91	16260	Chip						13.5	16.5	3.0		Tr	TV	Str Ser, Sil	Strong planar fabric 0.5-1.0% Dissem Py
08/20/91	16261	Chip	*					16.5	19.5	3.0		.001	.014	WK Sil	Moderate planar fabric (S), Green chl. mtx, Tr-0.25% Dissem Py, 1e And. Tuff
...	16262	Chip	*					19.5	22.5	3.0		.0006	.009	WK Ser	Mod. Sheared And. Tuff, Green Chl. mtx, Tr Py
...	16263	Chip						22.5	23.5	1.0		.0003	.012	—	Weak planar fabric Green Chl. mtx, Tr Py
...	16264	Chip						23.5	26.5	3.0		Tr	.006	Mod Ser	Well-defined Planar fabric 0.25-0.5% Py
...	16265	Chip						26.5	29.5	3.0		Tr	.009	Mod Ser	Mod. - Strong Planar (S) fabric, 0.2-0.5% Dissem Py
...	16266	Chip						29.5	32.5	3.0		.0003	.006	Weak Ser	Mod. Planar fabric, Tr Py

* 1e And. Tuff, all other samples @ SP Schnitt

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 17/91	16251	Grab										.027	.079	wk. silicit	le Andesite Tuff chl mix, 10-15% 21cm qtz veinlets
Aug 17/91	16252	Grab										.0087	.093	QSP, strong	v. weak planar fabric, med. grained, 2-3% finely disse Py
Aug 17/91	16253	Grab										.0135	.157	QSP, strong	weak planar fabric, med. grained, 0.5-1.0% Py, Tr, Cp
Aug 18/91	16254	Grab										.0106	.079	QSP, strong	med. grained equigranular texture, limonite stain along microfract, Tr along fractures
Aug 18/91	16255	Grab										.0106	.032	wk silicit	le, And. Tuff, chl. mix. fine-grained, Tr Py
Aug 21/91	16281	Grab										Tr	.07		Qtz vein, recrystallized equigranular fabric, Tr Py
Aug 22/91	16288	Grab										.022	.033		limonite staining Chert - displaying well- developed laminated fabric expressed by bluish grey (4cm) qtz veinlets.
Aug 22/91	16289	Grab										.328	0.30		Tr Py Qtz vein - recryst. equi- granular fabric, 10-15% Py (dots & blebs)
Aug 22/91	16290	Grab										.023	.064	Strong Sil	QTSW - parallel qtz veinlets (2.0cm) defining laminated fabric within silica-sat. mix. 0.2-0.3% Disse Py

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Marmot

Sampler BCW / 1/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 23	16477	Rx										55	0.9	Sup	CY QZ schist after MS QZ schist. PY leached. lt br color. soft.
	16478	Rx										205	3.1	Sup	CY QZ schist after MS QZ schist. PY leached. soft. lt br color.
	16479	Rx										370	7.7	MS QZ	MS QZ schist. Partial supergene ALT to CY. PY leached. lt br greenish color. soft.
	16480	Rx										410	13.2	MS QZ	Same. Some PY preserved. No CB
	16481	Rx										90	7.2	QZ MS	QZ MS Schist. A gy. Thin lam fol. PY 10%. preference to PY on lam.
	16482	Rx										90	7.1	MS QZ	MS QZ schist. PY 10%. PY knots in late QZ mini boundings. not common. No CB - Mid gy color

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Marmot

Sampler BCU 2/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
<u>Aug 23</u>	<u>16483</u>	<u>Rx</u>									<u>25</u>	<u>9.3</u>		<u>Sup</u>	<u>CY QZ schist stained w/ LI, goethite. Resinous surfaces. PY gone. schist after MS QZ schist</u>
	<u>16484</u>	<u>Rx</u>									<u>5</u>	<u>0.4</u>		<u>QZ MS</u>	<u>QZ, MS schist. Egg color. Hard. PY 12% D but preference to lams.</u>
	<u>16485</u>	<u>Rx</u>									<u>5</u>	<u>0.2</u>		<u>MS QZ</u>	<u>MS QZ schist. Mid gy color. PY 10% Most PY vfg. Soft. Partial leach.</u>
	<u>16486</u>										<u>5</u>	<u>0.1</u>		<u>MS QZ</u>	<u>MS QZ schist. Mid gy color. PY 15% Most PY coarse, clustered soft. Partially leached. No CB</u>
	<u>16487</u>										<u>10</u>	<u>0.1</u>		<u>MS QZ</u>	<u>same</u>
	<u>16488</u>										<u>5</u>	<u>0.1</u>		<u>MS QZ</u>	<u>same. Stronger leach.</u>
	<u>16489</u>										<u>5</u>	<u>0.1</u>		<u>MS QZ</u>	<u>same. PY 15-18%</u>

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Marmot

Sampler Bcw 3/4

Date	Sample No.	Type	Locallon				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 23 ↓	16490	Rx									5	0.1	QZ, MS	QZ MS schist. Mid gy color. Hard. PY 20%. PY even grain size <1mm. No CB. Weak leach supergene.	
	16491	Rx									10	0.4	MS QZ	MS QZ schist. Mid gy color. Soft. PY 8%, fg. weak leach.	
	16492	Rx									5	0.3	MS QZ	MS QZ schist. Mid gy to greenish color. PY 25% vfg. Greenish unit - Tuff?	
	16493	Rx									20	1.3	MS QZ	MS QZ schist. Mid gy color. PY 15% vfg. Tuffaceous unit massive blocky. Other platy fol. soft No CB.	
	16494	Rx									10	0.4	MS QZ	MS QZ schist. Mid gy color. Platy fol. PY 15% generally vfg.	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Marmot.

Sampler BCW 4/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 23	16495	Rx									80	0.6	MS QZ	AS 16494. Advanced supergene leach. Some PY remains.	
	16496	Rx									170	8.4	MS	MS schist. little QZ. V Hgy color. soft leached. No PY.	
	16497	Rx									190	7.1	MSQZ	MS QZ schist. PY. up to 15%. Hgy color. No CB. Thin platy lam.	
	16498	Rx									330	20.0	MS QZ	MS QZ schist. H gy to mid gy color. PY 15% conc in certain lam. No CB.	
	16499	Rx									330	7.8	MS QZ	MS QZ schist is later structural distal PY 8%. Mid gy color	
	16500	Rx									170	4.6	MS QZ	MS QZ schist. Mid gy color. PY 8%. Soft	
	20001										570	6.4	MS QZ	Same.	

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

Marmot

Sampler

BCW 1/2

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag	Alteration	
Aug 22	16469	Rx									300	3.8		MS QZ	QZ, MS schist after porphyritic QZDS. Soft. PY 8%. PY tends to occur w QZ lam. CR absent. well foliated.
	16470	Rx									355	4.0		MS QZ	QZ MS schist w 8% PY. Supergene ALT to CY and PY leached partial
	16471	Rx									300	4.5		QZ, MS	QZ, MS schist. Intensely silicified. PY 15%. PY partially leached.
	16472	Rx													
	16473	Rx									230	3.0		QZ, MS	QZ MS schist. Intensely silicified. PY 15%. Fg PY-D. light gray color. Hgd.
	16474	Rx									610	9.3		MS QZ	MS, QZ schist. soft Hgd color. PY 6-8% - PY up to 60%. lam poorly dev't.

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

Marmot

ppb
ppm

Sampler

BCW 1/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 21	16451	Rx										25	0.3		Trench S side of Gossan. Deep supergene ALT to Cj Tr. Remnant PY as MnO ₂ . Pyrite - MS QZ schist in PY.
	16452	Rx										10	0.4		Supergene ALT to Cj. Complete silicified - QZ MS schist? little PY remnant.
	16453	Rx										15	0.4		Supergene ALT to clay. Former MS QZ schist? little remnant PY.
	16454	Rx										15	1.9		Mixed interval in above MS QZ schist leached and Supergene ALT to Cj & silicified intervals - QZ MS schist in 8% PY.

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THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project

Maramot

ppb ppm

Sampler

BCW 2/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		
Aug 21	16455	QZ										15	1.5		Supergene ALT as previous. Interval has high proportion of silicified R ₁ to up to 60% P ₁ . Contorted R ₁ . MS gone to CY large 68
	16456	QZ										5	0.3		CY after MS? QZ schist. Bleach white MS? in tendency for P ₁ to occur in knots clusters. Soft and Peppery, spotted appearance. No CB.
	16457	R ₁										5	0.3		Supergene ALT? to CY. CY QZ schist. 10% P ₁ . P ₁ tends to occur in siliceous clusters/knots. No CB.
	16458	R ₁										5	0.2		Supergene ALT? to CY. QZ schist with 15% P ₁ . P ₁ tends to occur in individual laminations.

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Marmot

PPB
PPM

Sampler 300 3/4

Date	Sample No.	Type	Location			Sample Data				Assay Data			Alteration	Sample Description
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au		
Aug 21	16459	Rx									5	0.1		Supergene ALT to CY after QZ MS schist. PY 20% occurring as clusters, D ₁ and selected Lam. No CB.
	16460	Rx									10	0.1		Silicified interval QZ CY schist. CY after MS. PY 15-20%. mostly D ₁ .
	16461	Rx									15	0.1		CY QZ schist after MS QZ schist. 10% PY. PY tends to cluster. WK CB in PY cluster.
	16461													CY QZ schist after MS QZ schist. Supergene 10% PY. Decsarr
	16462	Rx									20	0.2		QZ CY schist after QZ MS schist. Supergene 10% PY. TR CB in PY.

THE
NORTHAIR
GROUP

SAMPLE
DESCRIPTION

Project Mermet

ppb ppm

Sampler BCW 4/4

Date	Sample No.	Type	Location				Sample Data				Assay Data			Sample Description	
			Claim	Northing	Easting	Zone	No.	From (m)	To (m)	Int. (m)	Cu	Au	Ag		Alteration
Aug 21	16463	Rx										5	0.1		CY QZ schist after MS QZ schist. Supergene 20% PY w slight tendency PY to cluster. TX CB
	16464	Rx										5	0.1		Same.
	16465	Rx										5	0.1		Same.
	16466	Rx										5	0.1		CY QZ schist after MS QZ schist. Supergene. 20% PY D and cluster some laminations MS QZ schist w No PY.
	16467	Rx										5	0.1		Same. PY mostly leached.
	16468	Rx										5	0.1		Same. PY mostly leached.

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** ASSAY REPORT **

Appendix 2 Assay Results

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91156
Date: September 26, 1990
Proj.: Bruceside

Attn: D. Vieegle

	Au oz/ton	Ag oz/ton
16207	1.628	86.3
16221		34.7
16223		88.7
16234	0.553	
16241		3.94
16242		3.85
16244		17.1
16249	0.265	6.85
16289	0.328	
16297	0.274	
16302		4.07
17380		27.7
17381		4.32
17382	0.211	16.8
17388		3.41
17390	0.326	7.96
17393		7.55
17396		21.9
17398	0.267	65.6
17399		34.7
17400		7.58

CDN RESOURCE LABORATORIES LTD.

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**** GEOCHEMICAL REPORT ****

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91132
Date: September 10, 1990
Proj.: Bruce side

Attn: D. Visagie

	Au	Ag	Reassay		Reassay	
	ppb	ppm	Au	ppb	Ag	ppm
16201	20	1.0				
16202	< 5	2.2				
16203	15	0.9				
16204	20	2.3	15			
16205	< 5	0.4				
16206	350	29				
16207	>10000	> 100				
16208	3000	41				
16209	275	68				
16210	215	>100				
16211	140	14.9				
16212	10	2.4				
16213	35	8.0				
16214	10	0.9				
16215	10	1.0				
16216	35	0.9				
16217	15	1.0				
16218	10	0.6				
16219	100	5.5				
16220	490	4.6				
16221	660	> 100				
16222	230	31.0				
16223	3000	> 100				
16224	310	36.0				
16225	220	4.0				
16226	220	26.0				
16227	345	8.5				
16228	225	15.5				
16229	230	5.8				
16230	170	21.2				
16231	150	16.3	160			
16232	480	45.0				
16233	220	14.3				
16234	>10000	12.3				
16235	40	4.5				
16236	45	3.2				
16237	10	0.5				
16238	10	0.5			0.5	
16239	120	23.6				
16240	< 5	1.4				
16241	180	> 100				
16242	380	> 100				
16243	250	85.5				

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

* GEOCHEMICAL REPORT *

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91140
Date: September 14, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au ppb	Ag ppm	Reassay Au ppb	Reassay Ag ppm
16309	220	8.6		9.4
16310	350	8.3		
16311	360	15.2		
16312	320	13.5		
16313	390	10.5		
16314	320	9.5		
16315	290	8.7		
16316	10	1.1		
16317	5	1.4		
16318	290	62		
16319	40	6.8	30	
16320	30	2.3		
16321	20	9.4		
16322	260	4.0		
16323	160	2.1		
16324	760	14.6		
16325	290	12.8		
16326	1250	60.0		
16327	1280	34.5		
17399	4700	> 100		
17406	1160	> 100		
19491	205	4.7		
19492	580	12.9		
19493	355	8.9		
19494	115	6.4		
19495	140	5.2		
19496	180	7.6		
19497	100	2.0		
19498	190	17.6		
19499	345	11.5		
19500	120	3.8		

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CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

** GEOCHEMICAL REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91124
Date: August 30, 1991
Proj.: Bruce side

Attn: D. Visagie

	Au ppb	Ag ppm	
15893	10500	85	
15894	30400	510	
16251	930	2.7	
16252	300	3.2	
16253	465	5.4	
16254	365	2.7	
16255	365	1.1	
16256	15	0.5	
16257	< 5	0.4	
16258	< 5	0.4	
16259	< 5	0.4	
16260	< 5	0.1	
16261	35	0.5	
16262	20	0.3	
16263	10	0.4	
16264	< 5	0.2	
16265	< 5	0.3	
16266	10	0.2	
16267	60	0.8	
16268	15	0.4	
16269	< 5	0.4	
16270	10	0.4	
16271	35	0.4	
16272	35	2.4	
16273	60	21.8	
16274	15	0.8	
16275	60	0.6	
16276	10	0.4	
16277	10	0.4	
16278	10	0.4	
16279	15	0.7	
16280	10	0.7	15 0.8
16281	40	2.4	
16282	200	2.3	
16283	150	2.4	
16284	260	1.0	
16285	380	1.1	
16286	1915	3.8	
16287	420	1.4	
16288	740	1.1	
16289	7000	10.2	
16290	805	2.2	
16291	480	8.6	
16292	85	3.0	
16293	830	48	
16294	800	1.1	

ECO-TECH LABORATORIES LTD.
 10041 EAST TRANS CANADA HWY.
 KAMLOOPS, B.C. V2C 2J3
 PHONE - 604-573-5700
 FAX - 604-573-4557

NEWHAWK GOLDMINES BTK 91-701
 860, 625 HOME ST.
 V6C 2T6

COPY

SEPTEMBER 5, 1991

ATTENTION: DAVID VISAGIE

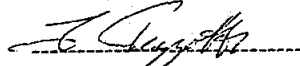
VALUES IN PPM UNLESS OTHERWISE REPORTED

SHIPMENT NO: 43
 PROJECT: SULPHSIDE
 31 ROCK PULP SAMPLES RECEIVED AUGUST 26, 1991

PAGE 1

ET#	DESCRIPTION	Au(ppb)	AG	AL(%)	AS	B	BA	BI	CA(%)	CD	CO	CR	CU	FE(%)K(%)	LA	MG(%)	MN	MO	NA(%)	NI	P	PB	SB	SN	SR	TI(%)	U	V	W	Y	ZN	
25	- 17331	<5	.2	.74	10	8	190	<5	2.86	<1	8	15	124	1.19	.11	<10	.58	1283	4	<.01	<1	1130	<2	5	<20	16	.03	<10	17	<10	6	51
26	- 17332	-	4.2	.58	55	6	65	<5	.34	<1	3	17	201	1.59	.13	<10	.46	245	7	<.01	4	920	8	5	<20	8	.05	<10	16	<10	2	20
27	- 17333	-	5.0	.28	95	6	35	<5	.12	<1	5	15	107	2.20	.14	<10	.10	60	4	<.01	3	660	22	<5	<20	5	.02	<10	5	<10	<1	8
28	- 17334	-	6.2	.19	805	8	15	<5	.83	<1	7	70	61	5.34	<.01	<10	.13	164	8	<.01	10	3000	132	15	<20	12	<.01	<10	2	<10	<1	14
29	- 17335	-	2.0	.29	110	8	50	<5	.32	<1	2	54	69	1.02	.12	<10	.07	85	8	<.01	4	1650	14	5	<20	6	<.01	<10	5	<10	<1	7
30	- 19722	-	1.2	.20	55	8	10	<5	.03	<1	4	41	53	1.91	.10	<10	.06	33	8	<.01	4	110	8	<5	<20	15	<.01	<10	1	<10	<1	5
31	- 19723	-	1.8	.12	20	6	25	<5	.09	<1	4	27	45	1.28	.09	<10	.04	30	4	<.01	5	100	36	<5	<20	9	<.01	<10	1	<10	<1	23

NOTE: < = LESS THAN


 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

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PROJECT: SULPHSIDE
 SHIPMENT NUMBER: 43

ET#	Description	AU (g/t)	AU (oz/t)	CU (%)
25	- 17331	<.03	<.001	-
26	- 17332	.07	.002	-
27	- 17333	.11	.003	-
28	- 17334	2.57	.075	-
29	- 17335	.15	.004	-

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

** GEOCHEMICAL REPORT **

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91124
Date: August 30, 1991
Proj.: Bruceide

Attn: D. Visagie

	Au	Ag	
	ppb	ppm	
17336	930	7.1	
17337	765	12.1	
17338	50	1.0	
17339	265	6.1	
17340	20	1.0	
17341	225	1.1	
17342	1360	45	
17343	500	3.5	
17344	200	2.5	
17345	465	4.8	
17346	1100	1.6	
17347	635	3.8	
17348	480	2.6	
17349	300	1.6	
17350	105	1.6	
17351	230	1.5	
17352	555	4.6	
17353	300	6.3	
17354	110	3.2	
17355	1600	28	
17356	60	0.7	
17357	< 5	0.9	
17358	170	0.4	
17359	20	0.9	
17360	30	0.9	1.0
17361	25	0.5	
17362	45	0.7	
17363	45	0.7	45
17364	50	0.5	
17365	380	0.6	
17366	230	1.2	
17367	35	0.5	
17368	10	0.4	
17369	25	0.5	
17370	15	0.7	
17371	25	0.5	
17372	25	0.5	
17373	505	7.1	
17374	565	2.8	
17375	235	5.7	
17376	10	0.2	
17377	115	3.2	
17378	10	1.0	
17379	10	0.4	0.4
17380	440	>100	
17381	765	>100	
17385	10	0.8	
17386	60	0.9	
17387	600	9.2	9.6
17388	1500	>100	
17389	720	12.4	
17390	6900	>100	
17391	355	7.3	420
17392	700	7.5	

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

**** GEOCHEMICAL REPORT ****

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91128
Date: September 5, 1990
Proj.: Bruce side

Attn: D. Visagie

	Au	Ag	Reassay		Reassay	
	ppb	ppm	Au	ppb	Ag	ppm
17382	>10000	>100				
17383	10	3.0		5		
17401	65	1.0				
17402	50	0.7				
17403	15	1.0				
17404	65	0.7				
17405	1825	2.9				
17406	55	0.9				
17407	165	2.1				
17408	105	3.6				
17409	570	7.4				
17410	25	0.2				
17411	< 5	0.1				
17412	5	0.1				
17413	< 5	0.1				
17414	< 5	0.2				
17415	15	0.1			0.2	
17416	85	<0.1				
17417	< 5	<0.1				
17418	< 5	0.1				
17419	10	0.1				
17420	200	3.3				
17421	15	0.8				
17422	15	0.7				
17423	10	0.4				
17424	15	0.4		25		
17425	15	0.5				
17426	15	0.1				
17427	50	0.3				
17428	15	0.3				
17429	30	0.4				
17430	15	0.3				
17431	10	0.2				
17432	35	1.0				
17433	1990	2.9				
17434	90	0.6			0.5	
17435	25	0.4				
17436	55	1.5				
17437	330	1.6				
17438	290	2.1				
17439	225	2.5				
17440	290	2.8				
17441	390	4.0				
17442	1660	5.9				

** GEOCHEMICAL REPORT **

To: Newhawk Gold Mines Ltd.
 860 - 625 Howe Street
 Vancouver, B.C.
 V6C 2T6

Number: 91128
 Date: September 5, 1990
 Proj.: Bruce side

Attn: D. Visagie

	Au ppb	Ag ppm	Reassay Au ppb	Reassay Ag ppm
18055	110	10.6	105	
18056	200	11.0		
18057	110	22.1		
18058	70	9.9		
18059	390	12.1		
18060	550	55		
18061A	400	3.9		
18061B	490	3.8		
18063	325	7.8		
18064	290	5.6		
18065	330	7.3		
18066	615	8.3		
18067	455	15.2		
18068	455	9.8		
18069	280	13.9		13.5
18070	830	83		
18071	175	5.6		
18072	130	3.2		
18073	270	2.9		
18074	275	1.9		
18075	485	3.8		
18076	165	2.1	160	
18077	55	2.0		
18078	290	27.0		
18079	300	2.8		
18080	425	3.9		
18081	250	3.0		
18082	515	9.4		
18083	230	2.5		
18084	290	2.7		
18085	590	8.4		
18086	475	3.8		
18087	400	8.0		
18088	330	7.6		7.6
18089	320	6.7		
18090	165	3.7		
18091	>10000	11.4		
18092	>10000	12.8		
18093	>10000	13.2		
18094	>10000	10.1		
18095	180	0.9		
18096	870	76		
18097	160	2.3		
18098	40	0.4		
18099	15	0.4		
18100	10	0.2		
18101	5	0.1		
18102	20	0.1		
18103	10	0.3		
18104	9400	38		
18105	425	3.7		3.3
18106	170	0.9		
18107	260	1.1		
20001	570	6.4		

Samples above, received as pulps, were mixed by rolling.
 Assay procedures: Au - fire assay, AA (10g sample)
 Ag - mixed acid digestion, AA finish.

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

**** GEOCHEMICAL REPORT ****

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91128
Date: September 5, 1990
Proj.: Bruce side

Attn: D. Visagie

	Au ppb	Ag ppm	Reassy Au ppb	Reassy Ag ppm
16451	25	0.3		
16452	10	0.4		
16453	15	0.4		
16454	15	1.9		
16455	15	1.5		
16456	< 5	0.3		
16457	< 5	0.3		
16458	< 5	0.2		0.3
16459	< 5	0.1		
16460	10	0.1	15	
16461	15	0.1		
16462	20	0.2		
16463	< 5	0.1		
16464	< 5	0.1		
16465	< 5	0.1		
16466	< 5	0.1		
16467	< 5	0.1		
16468	< 5	0.1		
16469	300	3.8		
16470	355	4.0		
16471	300	4.5		
16472	230	3.0		
16473	610	9.3		
16474	330	4.9		
16475	175	6.4		
16476	130	0.9		
16477	55	0.9		
16478	205	3.1		
16479	370	7.7		
16480	410	13.2		
16481	90	7.2		
16482	90	7.1		
16483	25	4.3		
16484	5	0.4		0.4
16485	< 5	0.2		
16486	5	0.1		
16487	10	< 0.1		
16488	< 5	0.1	< 5	
16489	< 5	< 0.1		
16490	< 5	0.1		
16491	10	0.4		
16492	< 5	0.3		
16493	20	1.3		
16494	10	0.4		
16495	80	0.6		
16496	170	8.4		
16497	190	7.1		
16498	330	20.0		
16499	330	7.8		
16500	170	4.6		
17384	30	2.5		

Duncan Anderson

GVN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

** GEOCHEMICAL REPORT **

to: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91129
Date: September 5, 1990
Proj.: Bruceide

Attn: D. Visagie

	Au ppb	Ag ppm	Reassay Au ppb	Reassay Ag ppm
18108	1020	2.8		2.9
18109	35	0.4		
18110	1330	4.6		
18111	10	0.8		
18112	< 5	0.4		
18113	5	0.3		
18114	10	2.7		
18115	10	2.8		
18116	50	3.1		
18117	10	0.8		
18118	285	23.3		
18119	140	5.2		
18120	250	6.8		
18121	210	3.3		
18122	20	0.4		
18123	200	2.0		
18124	20	0.8		
18125	30	1.0		
18126	30	1.0		
18127	20	0.6		
18128	430	7.8		
18129	355	5.3		
18130	190	3.5	170	
18131	20	0.9		
18132	205	2.3		
18133	210	1.5		
18134	50	0.6		
18135	40	0.5		
18136	345	8.7		
18137	835	9.0		9.0
18138	1580	12.4		
18139	490	12.5		
18140	560	25.1		
18141	1390	11.1		
18142	1750	15.5		
18143	710	5.4		
18144	370	43.6		
18145	875	6.2		
18146	490	13.5		
18147	500	55.0		
18148	320	3.0		
18149	430	31.4		
18150	155	7.7	160	

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

* GEOCHEMICAL REPORT *

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91140
Date: September 14, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au ppb	Ag ppm	Reassay Au ppb	Reassay Ag ppm
17443	130	6.4		
17444	140	4.8		
17445	210	8.8		
17446	30	2.2		
17447	10	1.6		1.5
17448	10	2.2		
17449	10	2.0		
17450	10	2.1		
17451	280	15.8		
17452	180	2.4		
17453	345	4.1		
17454	70	1.6		
17455	120	2.4		
17456	25	1.5		
17457	10	1.3		
17458	10	0.9		
17459	10	0.4		
17460	20	0.4	35	
17461	15	0.4		
17462	25	1.5		
17463	85	1.4		
17464	280	9.3		
17465	65	3.5		
17466	85	2.7		
17467	35	3.3		
17468	25	1.2		
17469	30	1.1		
17470	45	0.6	50	
17471	30	0.6		
17472	35	0.7		
17473	80	5.3		
17474	30	2.8		
17475	40	0.7		
17476	10	0.2		
17477	10	0.2		0.2
17478	20	0.4		
17479	80	2.1		
17480	10	0.6		
17481	5	0.4		
17482	5	0.3		
17483	5	0.2		
17484	10	0.1		
17485	10	0.3		
17486	5	0.4		
17487	< 5	0.8		
17488	10	5.7		
17489	5	4.3		
17490	5	2.5	5	
17491	40	1.2		
17492	60	1.3		
17493	30	2.5		
17494	20	1.2		
17495	10	2.3		
17496	10	1.3		
17497	10	1.7		1.8
17498	5	1.8		
17499	5	1.1		
17500	20	1.0		

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

* GEOCHEMICAL REPORT *

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6

Number: 91140

Date: September 14, 1990

Proj.: Bruceaside

Attn: D. Visagie

	Au	Ag	Reassay		Reassay	
	ppb	ppm	Au	ppb	Ag	ppm
17551	< 5	2.4				
17552	< 5	1.8				
17553	30	2.2				
17554	70	2.2				
17555	35	3.1				
17556	70	2.7				
17557	110	3.5				
17558	80	2.4				
17559	235	3.7				
17560	30	2.6	30			
17561	5	0.9				
17562	5	1.3				
17563	20	13.2				
17564	30	9.9				
17565	15	1.3				
17566	355	40.0				
17567	230	16.4			16.3	
17568	180	16.2				
17569	150	1.2			1.0	
17570	30	0.9				
17571	40	22.6				
17572	50	0.9				
17573	340	4.3				
17574	95	0.6				
17575	100	2.0				
17576	10	0.3				
17577	210	20.0	220			
17578	40	2.2				
17751	95	2.4				
17752	10	1.3				
17753	205	50.0				
19741	35	3.7				
19742	80	4.3				
19743	105	4.2				

Duncan Sanderson

CDN RESOURCE LABORATORIES LTD.

6329 BERESFORD STREET, BURNABY, B.C. V5E 1B3 / PH: 435-8376 / FAX: 435-9746

* GEOCHEMICAL REPORT *

To: Newhawk Gold Mines Ltd.
860 - 625 Howe Street
Vancouver, B.C.
V6C 2T6.

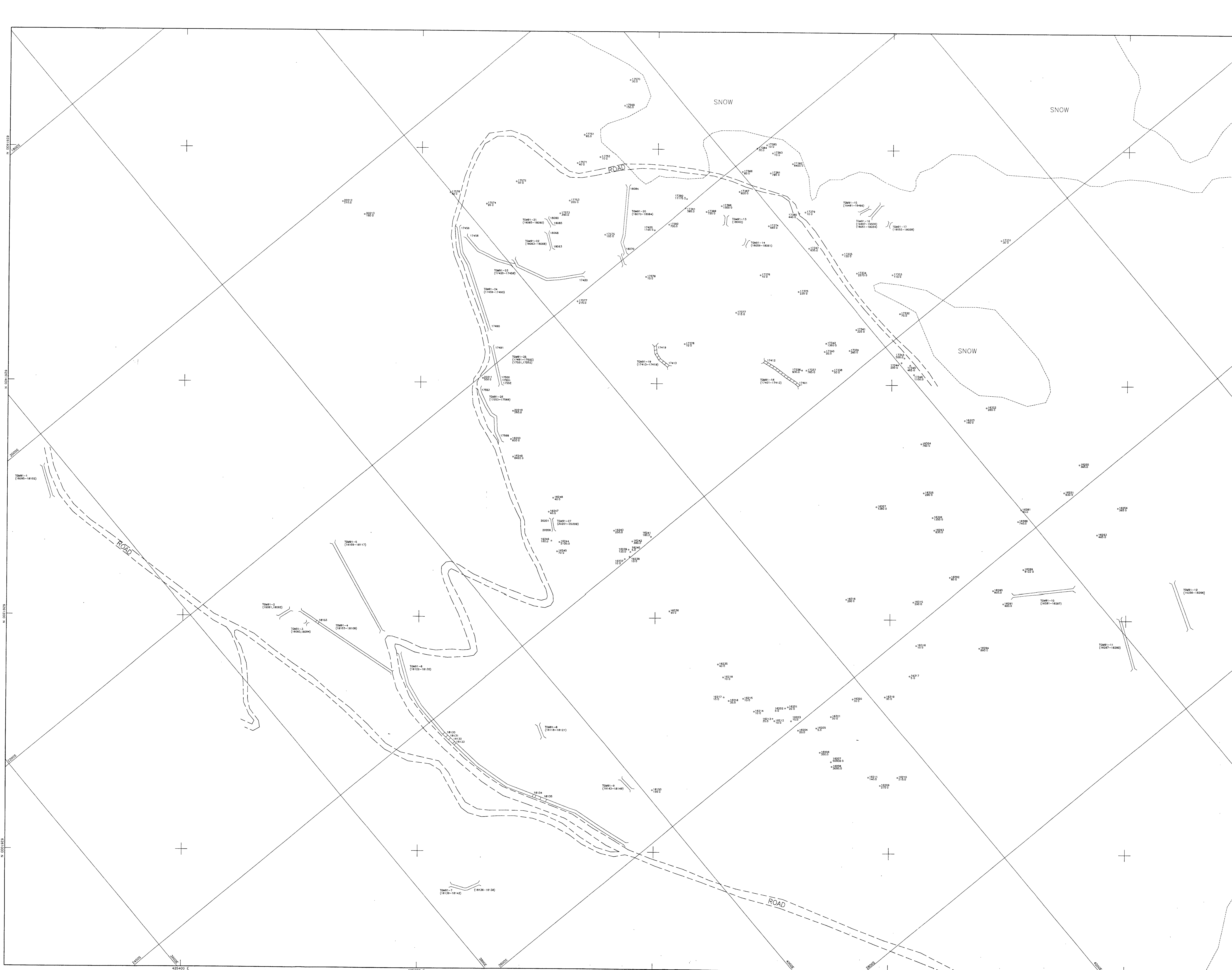
Number: 91141
Date: September 16, 1990
Proj.: Bruceside

Attn: D. Visagie

	Au	Ag	Reassay		Reassay	
	ppb	ppm	Au	ppb	Ag	ppm
16244	2100	> 100				
16245	70	19.1				
16246	180	9.2				
16247	40	7.5				
16248	40	4.7				
16249	7900	> 100				
16250	600	34.1				
16319	40	6.8		30		
16320	30	2.3				
16321	20	9.4				
16322	260	4.0				
16323	160	2.1				
16324	760	14.6				
16325	290	12.8				
16326	1250	60.0				
16327	1280	34.5				
17399	4700	> 100				
17400	1160	> 100				
20201	180	27.2				
20202	160	24.3				
20203	135	10.9				
20204	130	11.5				
20205	130	18.0				
20206	100	15.7				
20207	140	11.9				
20208	110	13.7				
20209	110	14.5				
20210	260	7.0				
20211	510	6.8		490		
20212	210	3.0				
20213	150	2.7				

Au: fire assay (10g), AA.

Ag: mixed acid digestion, AA.



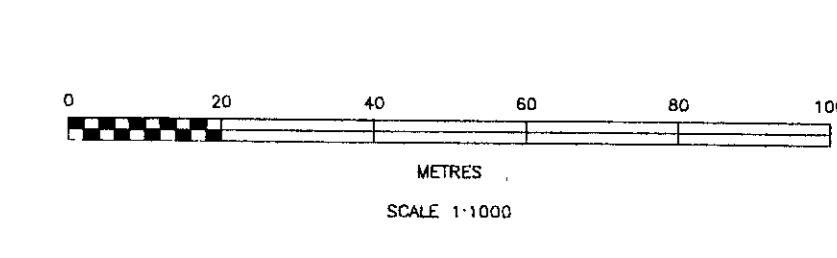
GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,884

- LEGEND
- ROCK CHIP SAMPLE LOCATION
 - ROCK TRENCH
 - 17390 SAMPLE NO. (17390)
 - 11725.0 SAMPLE NO. (11725.0)
 - TRENCH NO. (18091, 18092)

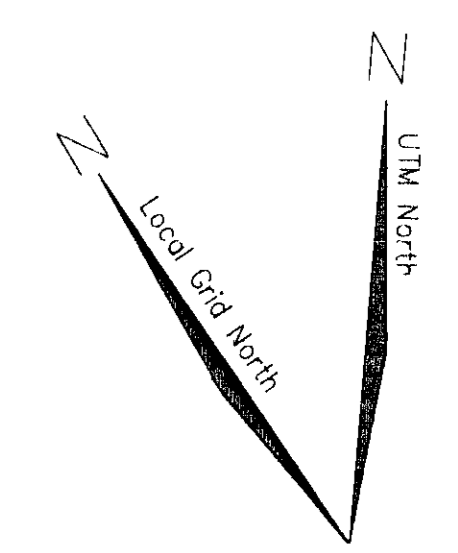
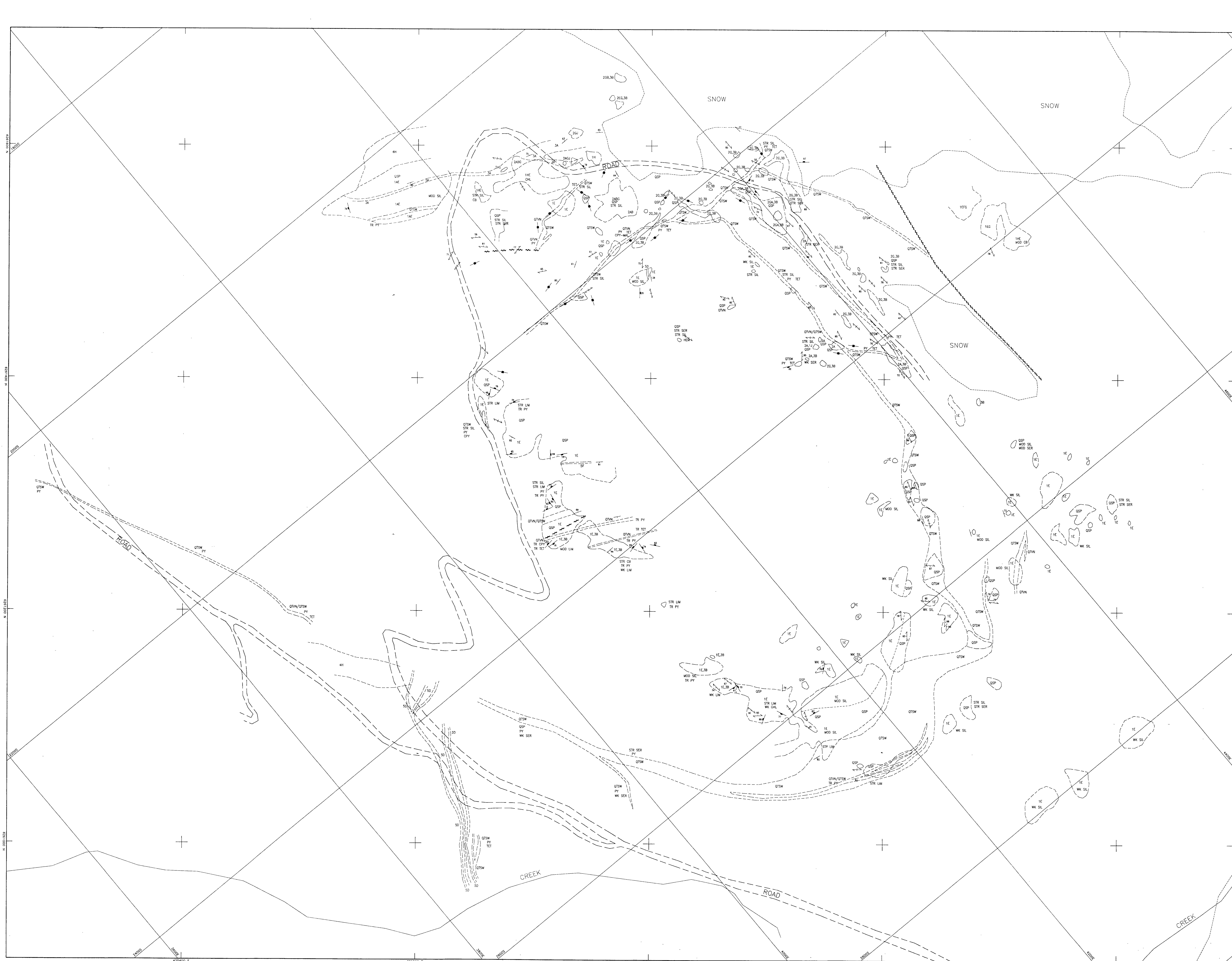
TRENCH AU VALUES

SAMPLE NO.	AU (PPB)	SAMPLE NO.	AU (PPB)
16256	15	17393	30
16257	15	17394	70
16258	5	17395	35
16259	5	17396	70
16260	5	17397	110
16261	5	17398	80
16262	20	17399	235
16263	1.0	17400	30
16264	5	17401	5
16265	5	17402	20
16266	5	17403	20
16267	6.0	17404	20
16268	5	17405	20
16269	5	17406	20
16270	6.0	17407	20
16271	5	17408	20
16272	5	17409	20
16273	6.0	17410	20
16274	5	17411	20
16275	6.0	17412	20
16276	1.0	17413	20
16277	1.0	17414	20
16278	1.0	17415	20
16279	1.0	17416	20
16280	1.0	17417	20
16281	1.0	17418	20
16282	1.0	17419	20
16283	1.0	17420	20
16284	1.0	17421	20
16285	1.0	17422	20
16286	1.0	17423	20
16287	1.0	17424	20
16288	1.0	17425	20
16289	1.0	17426	20
16290	1.0	17427	20
16291	1.0	17428	20
16292	1.0	17429	20
16293	1.0	17430	20
16294	1.0	17431	20
16295	1.0	17432	20
16296	1.0	17433	20
16297	1.0	17434	20
16298	1.0	17435	20
16299	1.0	17436	20
16300	1.0	17437	20
16301	1.0	17438	20
16302	1.0	17439	20
16303	1.0	17440	20
16304	1.0	17441	20
16305	1.0	17442	20
16306	1.0	17443	20
16307	1.0	17444	20
16308	1.0	17445	20
16309	1.0	17446	20
16310	1.0	17447	20
16311	1.0	17448	20
16312	1.0	17449	20
16313	1.0	17450	20
16314	1.0	17451	20
16315	1.0	17452	20
16316	1.0	17453	20
16317	1.0	17454	20
16318	1.0	17455	20
16319	1.0	17456	20
16320	1.0	17457	20
16321	1.0	17458	20
16322	1.0	17459	20
16323	1.0	17460	20
16324	1.0	17461	20
16325	1.0	17462	20
16326	1.0	17463	20
16327	1.0	17464	20
16328	1.0	17465	20
16329	1.0	17466	20
16330	1.0	17467	20
16331	1.0	17468	20
16332	1.0	17469	20
16333	1.0	17470	20
16334	1.0	17471	20
16335	1.0	17472	20
16336	1.0	17473	20
16337	1.0	17474	20
16338	1.0	17475	20
16339	1.0	17476	20
16340	1.0	17477	20
16341	1.0	17478	20
16342	1.0	17479	20
16343	1.0	17480	20
16344	1.0	17481	20
16345	1.0	17482	20
16346	1.0	17483	20
16347	1.0	17484	20
16348	1.0	17485	20
16349	1.0	17486	20
16350	1.0	17487	20
16351	1.0	17488	20
16352	1.0	17489	20
16353	1.0	17490	20
16354	1.0	17491	20
16355	1.0	17492	20
16356	1.0	17493	20
16357	1.0	17494	20
16358	1.0	17495	20
16359	1.0	17496	20
16360	1.0	17497	20
16361	1.0	17498	20
16362	1.0	17499	20
16363	1.0	17500	20
16364	1.0	17501	20
16365	1.0	17502	20



NEWHAWK GOLD MINES
SULPHURETS PROPERTY
GOLDEN MARMOT ZONE
1991 SAMPLE LOCATIONS

DRAWN BY: T.K. NTS 104B/8
DATE: NOV 1991 FIGURE NO: 4



- LEGEND**
- 5 INTERMEDIATE TO MAFIC INTRUSIVES
5A UNDEVELOPED, 5B DIOBITE (DIOB), 5C GABBRO (GABB), 5D DIABASE (DIAB), 5E LAMPROPHIRE DYKE-SILLS (LAMP)
 - 4 FELSIC TO INTERMEDIATE INTRUSIVES
4A UNDEVELOPED, 4B GRANITE (GRAN), 4C DIORITE (DIOR), 4D QUARTZ-MONZONITE (QMON), 4E MONZONITE (MONZ), 4F GRANODIORITE (GRAD), 4G QUARTZ-EYE PORPHYRY (QEP), 4H FELDSPAR-PORPHYRY (FPOR), 4I QUARTZ-FELDSPAR PORPHYRY (QFP), 4J HORNBLende-FELDSPAR PORPHYRY (HFP)
 - 3 CHEMICAL METASEDIMENTS
3A CHERT (CHRT), 3B CHERRY TUFF (CTUF), 3C OXIDE FACIES (OF), 3D CARBONATE-FACIES (CF), 3E SILICATE-FACIES (SF), 3F SULPHIDE-FACIES (SUF)
 - 2 METASEDIMENTS
2A UNDEVELOPED, 2B ARGILLITE (ARG), 2C ARGILLE (ARGS), 2D ARGILLITE (ARGT), 2E GREYWACKE (GRAW), 2F CONGLOMERATE (CONG), 2G CHERT (CHRT), 2H LIMESTONE (LIME)
 - 1 METAVOLCANICS - RHYOLITE (RH), DACITE (DAC), ANDESITE (AN), BASALT (BAS)
1A UNDEVELOPED, 1B MASSIVE FLOWS (ANF), 1C PORPHYRY FLOWS (ANPF), 1D FLOWING FLOW/FLUSH BRECCIA (ANFL), 1E TUFF (ANTF), 1F LABELL TUFF (ANLT), 1G TUFF-BRECCIA (ANBT), 1H CRYSTAL TUFF (ANCT), 1I PORPHYRY (ANPF), 1J VOLCANIClastic-LAMAR (ANVL)

- ALTERED ROCKS**
- ALB ALBITIZATION
 - BSF BOUTROUSIDES
 - CSL CARBONATE ALTERATION
 - CSL CALCIUM/SODIUM CALICITIC
 - KSP POTASSIC ALTERATION
 - OSP QUARTZ-SERICITE, PIRITE SCHIST
 - SER SERICITIZATION, SERICITE
 - SL SILICIFICATION, SILICIFIED
- WK - WEAK MOD - MODERATE STR - STRONG

- SYMBOLS**
- OUTCROP BOUNDARY
 - BEDDING (VERTICAL, INCLINED)
 - SHEARING (VERTICAL, INCLINED)
 - JOINTING (HORIZONTAL, INCLINED, VERTICAL)
 - LINERATION WITH FILLING
 - PILLIONS (TOPS UNKNOWN, KNOWN)
 - GEOLOGICAL CONTACT (OBSERVED, ASSUMED)
 - FAULT (DEFINED, ASSUMED)
 - SHEAR ZONE, UNCLAMMENT
 - TRENCH, PIT
 - DRILL HOLE (VERTICAL, INCLINED)
 - DIAMOND SAW CHANNEL, INTERNAL

- ABBREVIATIONS**
- | | |
|---------------------|---|
| AU - NATIVE GOLD | GN - GALENA |
| AG - NATIVE SILVER | HEM - HEAVY METALS |
| ANK - ANKERSITE | LM - LIMONITE |
| ARG - ARGENTITE | MAL - MALACHITE |
| ASPY - ARSENOPYRITE | MAL - MALACHITE |
| AZ - AZURITE | MO - MOLLUSCITE |
| BA - BARYTE | POLY - POLYBARYTE |
| BAN - BARNESITE | PPY - PYRROPHYLITE |
| BN - BORNITE | PPY - PYRROPHYLITE |
| BR - BRECCIA | PPY - PYRROPHYLITE |
| CHAL - CHALCOPIRITE | QCS/COV - QUARTZ-CARBONATE STRINGER/VEN |
| CPI - CHALCOPHYRITE | QS/QTZ - QUARTZ STRINGER/VEN |
| CU - NATIVE COPPER | SD - SILICITE |
| DOL - DOLomite | SP - SPHALERITE |
| EL - ELECTRUM | TEN - TENNANTITE |
| GP - GRANITE | TET - TETRANANTITE |
- QTM - QUARTZ VEIN SHALE QTM/QTM
QTM - QUARTZ STOCKWORK, 200-400 QTM/QTM

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,884

0 20 40 60 80 100 METRES
SCALE 1:1000

**NEWHAWK GOLD MINES
SULPHURETS PROPERTY**

**GOLDEN MARMOT ZONE
GEOLOGY**

DRAWN BY: T.K. NTS 104B/8
DATE: NOV 1991 FIGURE NO: 5,6