

# ASSESSMENT REPORT

ON THE

094186

## PIKE CLAIMS

(Pike 1-6 YB87183-YB87188; Pike 7 YB87488; Pike 9 YB87490; Pike 21 YB87753;  
Pike 26 YB87503; Pike 28 YB87505; Pike 30-33 YB87507-YB87510; Pike 54-59  
YB87531-YB87536; Pike 77- 78 YB87757-YB87758; Pike 80 YB87760; Pike 95 YB87773)

Traffic Mountain Area

NTS 105 J-2  
Lat. 62 1 IN, Long 13 0 42'W  
Watson Lake Mining District

For: Peter Risby & the Gullen/Risby Family Trust  
RR#3, S33, C21  
Penticton, B.C.  
V2A 7K8

August 30, 1999

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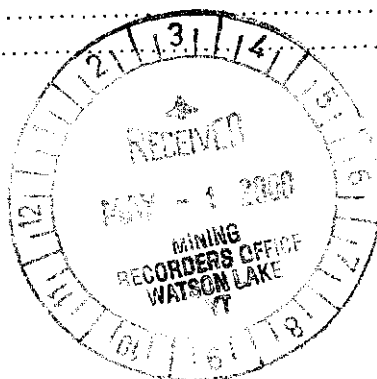
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This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 2550.00

*for*  
*M. B. K.*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory

## SUMMARY

This report prepared as an assessment for the Gullen Risby Family Trust operating as Newrise Resources, summarizes exploration work undertaken on the PIKE property in 1996-1999 by Mr. P. Risby, Homestake Canada, Teck Exploration Ltd., Viceroy International Exploration and Hastings Management Corp. The report also reviews previous assessment reports and recommends an exploration program to further evaluate the prospect. The PIKE consists of 25 contiguous claims located on the Pelly River flats, 95 kilometers east of the town of Ross River and 50 kilometers north of the Robert Campbell Highway in the eastcentral Yukon Territory. Access is by helicopter from Ross River, the Robert Campbell Highway or from the North Canol Road. A winter trail connects the property to the Campbell Highway. Charter aircraft and supplies are available from Ross River or alternately Whitehorse, 360 kilometers southwest of the property.

The PIKE showings are located just north of two small lakes on several gently sloping ridges in an area of low relief. The lake and creek valleys are swampy but the ridges feature a few outcrops and fairly shallow overburden. Vegetation consists of swamp hummocks and black spruce forest with patches of poplar. The property is within the Selwyn Basin geological region, a thick sequence of Proterozoic and Paleozoic sedimentary rocks situated on the western edge of the North American craton. The Tintina Fault, the contact between the craton and accreted rocks is located southwest of the property marking the transition from the Selwyn Basin to the Yukon Tanana and Slide Mountain terranes. The Yukon Tanana is being explored for massive sulphide deposits formed in Paleozoic and Mesozoic sedimentary and metavolcanic rocks. The Selwyn Basin hosts sedex and replacement style deposits. The PIKE property features metasedimentary units, mainly quartzites, argillites, cherts and limestone of Haydrinian age intruded by granitic rocks of Cretaceous or younger age. Fractures and shears in a silicified and sericitised granodiorite sill host, veinlets and disseminated, arsenopyrite and pyrite, with less chalcopyrite, sphalerite, tetrahedrite and minor galena.

The PIKE claims were staked by prospector Peter Risby on an old prospect originally discovered in the 1960's by Atlas Exploration Corp. Atlas Exploration explored this prospect from 1966-1974, followed by Cima Resources from 1974-1981 and Noranda Exploration Co. in 1989. Initially, Atlas flew an airborne geophysical survey over the region, followed by staking of anomalies and surface exploration. The PIKE block was subject to a soil geochemical survey, electromagnetic, magnetic and IP geophysical surveys, followed by trenching and a small amount of drilling. Two areas of mineralization known as the Pike (No. 1) and Poke (No. 2) showings were uncovered associated with strong northwest trending faults and cross-cutting northeasterly trending shears. The two showings were outlined along a geophysical and geochemical anomalous zone over a 3.0 km strike length.

The PIKE showing is exposed in a series of cat trenches as a 15-25 meter wide arsenopyrite bearing altered and fractured granitic rock that averages 0.61% copper and 85.6 gpt (2.5 opt) silver. The POKE showing located about 1,200 meters away is also exposed in cat trenches as a quartz vein stockwork and fracture zone in granitic rock. Sphalerite and galena veinlets are patchy. The prospect was described as a porphyry copper occurrence by Noranda and others, however, P. Van Angeren (1997) suggested that it may be epithermal in origin associated with Tombstone Suite Intrusions. The Brewery Creek and Dublin Gulch deposits are gold rich examples of this type of mineralization.

In 1996-1997, 92 rock and 68 soil samples were taken during the property work. Most of the rock samples were taken from existing trenches and two soil sample lines were run west of the Pike showing. Results are consistent with those obtained by previous operators for silver, copper, lead and zinc. The Pike zone samples ran up to 367 gpt silver and 3.58% copper while samples from the Poke zone assayed up to 606.8 gpt silver and 0.9% copper. Viceroy collected samples at 50-m intervals searching for a potential gold enriched section of the mineralized zones; however, the samples contained background gold values.

Surface exploration at the PIKE property has outlined a 3.0-km long target for finding silver rich sulphide mineralization in altered intrusive rocks. The mineralization may be structurally controlled associated with Tombstone Suite Intrusions.

There is good potential for finding further precious metal mineralization and copper bearing zones at the PIKE. Soil geochemistry followed by trenching or drilling of anomalies effectively outlines the mineralization. An exploration program of grid development, mapping, geophysics and drilling is recommended for the PIKE property. A re-evaluation of this prospect should include preparation of a computerized database of the existing assessment data followed by interpretation of the geophysical and geochemical anomalies. Modern IP or electromagnetic surveys are recommended over the anomalies to facilitate selection of drill sites.

## INTRODUCTION

The **PIKE** property consists of 25 claims located in the east-central Yukon Territory near Traffic Mountain and the Pelly River in the Logan Mountains and the Watson Lake Mining District. The claims are located in the geological area identified as the **Tintina Gold Belt** region which stretches from north-west Alaska through to the south-eastern portion of the Yukon. The Pike silver-gold property is similar to other deposits hosted in Cretaceous age intrusive rocks that are the current focus throughout the Yukon-Alaska Tintina Gold Belt. The Pike property is a very significant and promising prospect. The claims cover low lying swampy topography and rolling hills north of the Pelly River. The showings and cat trenches are located on slightly higher ground just north of two small lakes. Samples 3 and 4 from the 1999 assays reported on the Selected Sample Values sheet are taken from a mineral zone not previously identified.

## LOCATION AND ACCESS

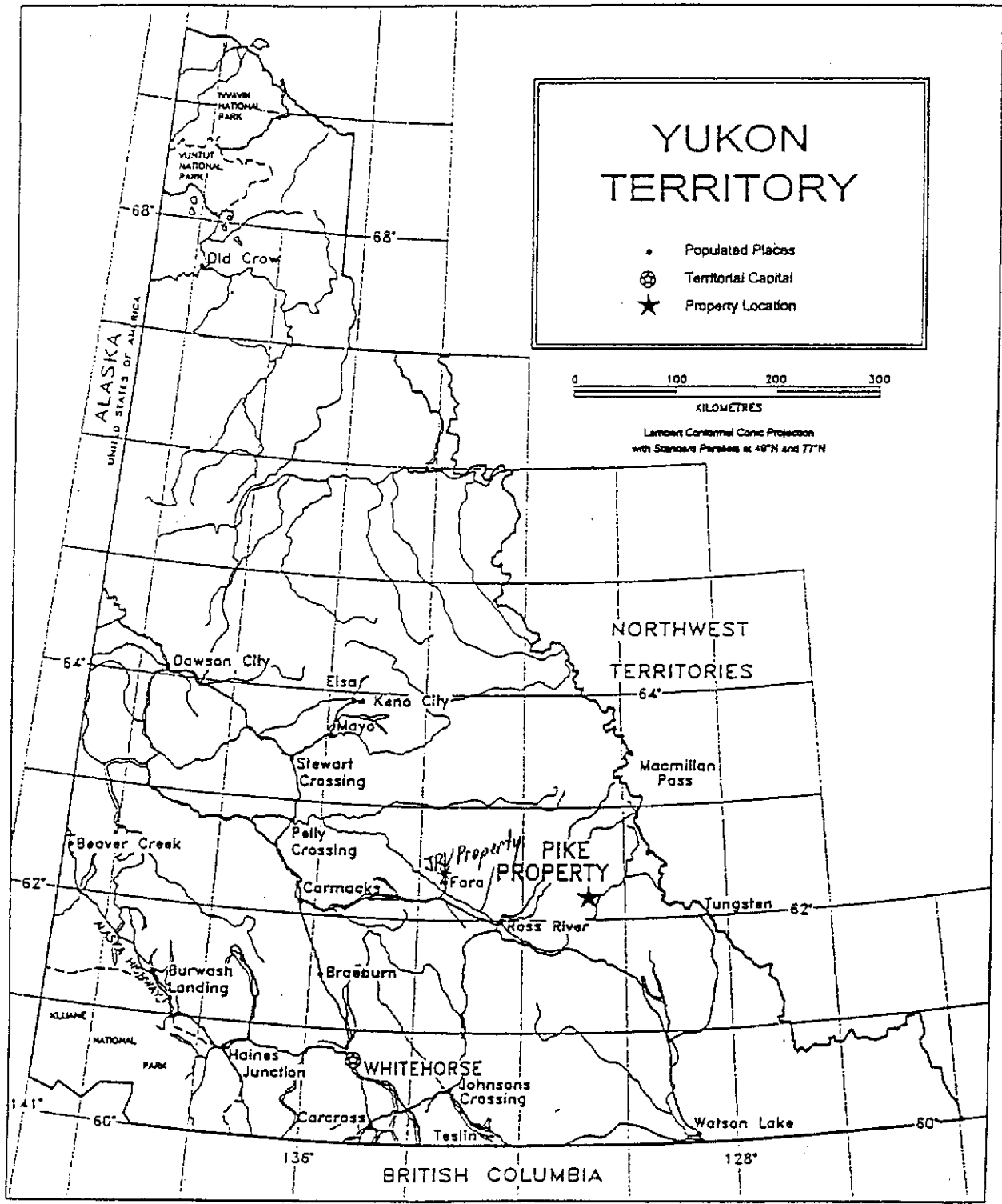
The PIKE property is located 95 kilometres east of the town of Ross River and 53 kilometres north of the Robert Campbell Highway on NTS Map Sheet 105 J-2 at geographical coordinates 62 08"N and 130 40"W. The PIKE property is accessed by helicopter from Ross River or float plane to Pike Lake. A winter road connects the property to the Robert Campbell Highway a distance of 75 kilometres. At present, there is no camp on the claims but previous operators used a site on Pike Lake. Figures 1 and 2 show the property location. Logistically, Whitehorse, Ross River and Watson Lake provide supplies, accommodations, aircraft charter and government services for the district and there is a government maintained airstrip near Finlayson Lake.

## PHYSIOGRAPHY

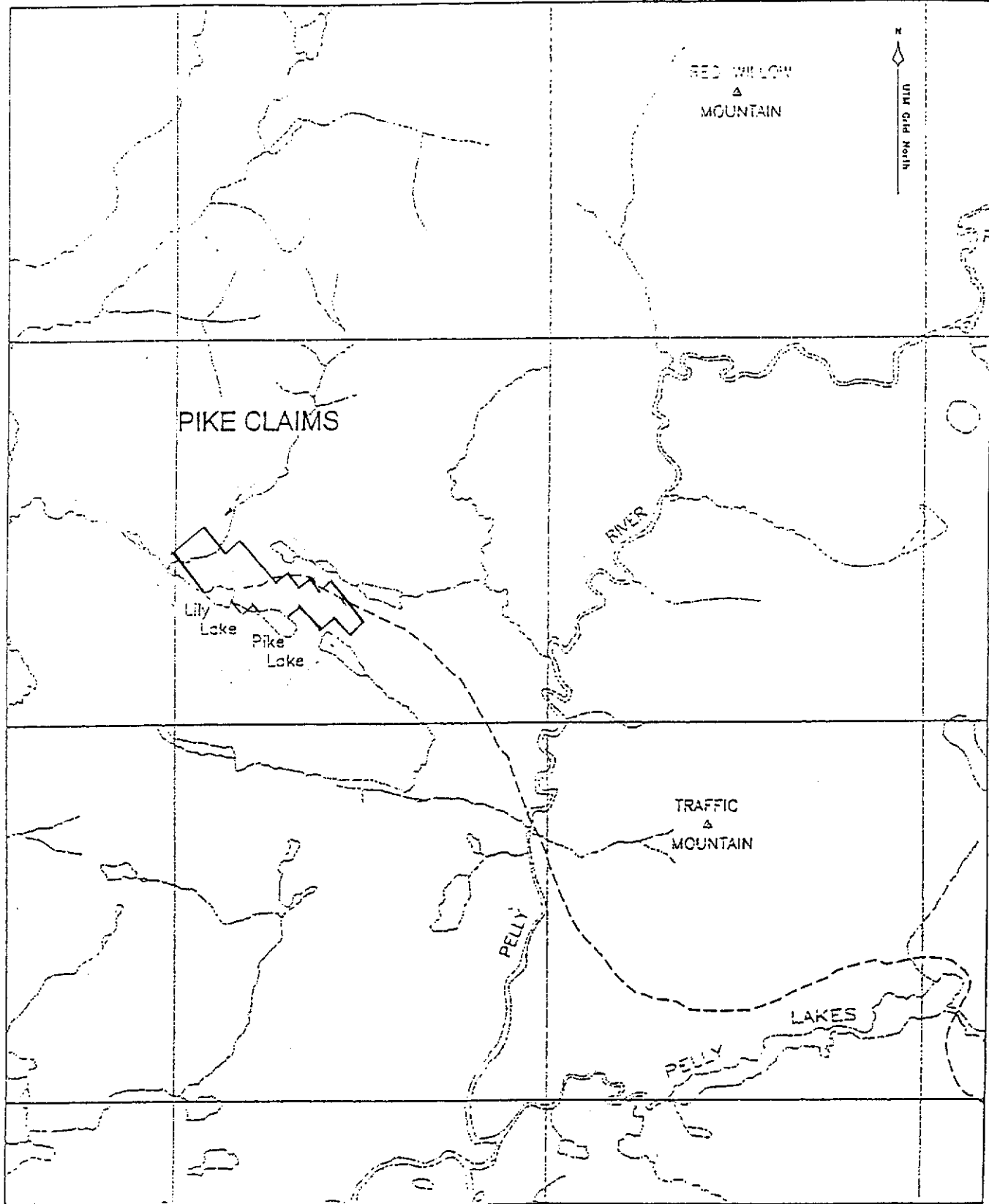
The PIKE property covers low lying swampy ground surrounding several small lakes and rolling hills that reach a peak elevation of 1,060 meters. The topography has a northwest-southeast trend defined by heavily forested hills and elongated swamps and lakes. Outcrop is very limited and the main exposures are in the cat trenches. The effects of glaciation are evident as eskers and moraines. An ice sheet covered most of the region during the Pleistocene Age, which moved westerly.

Vegetation consists of black spruce forest with buck brush ground cover and small thickets of poplar and alder brush. Low-lying boggy areas feature swamp hummocks and standing pools of water.

The district has a northern interior climate marked by long cold winters and moderate annual precipitation. Exploration on the property can be performed from May until October.

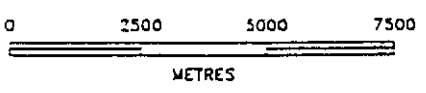


NEWRISE RESOURCES		
PIKE PROPERTY Location Map		
SCALE: 1 : 6,000,000	FILE: 245L_1	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 1

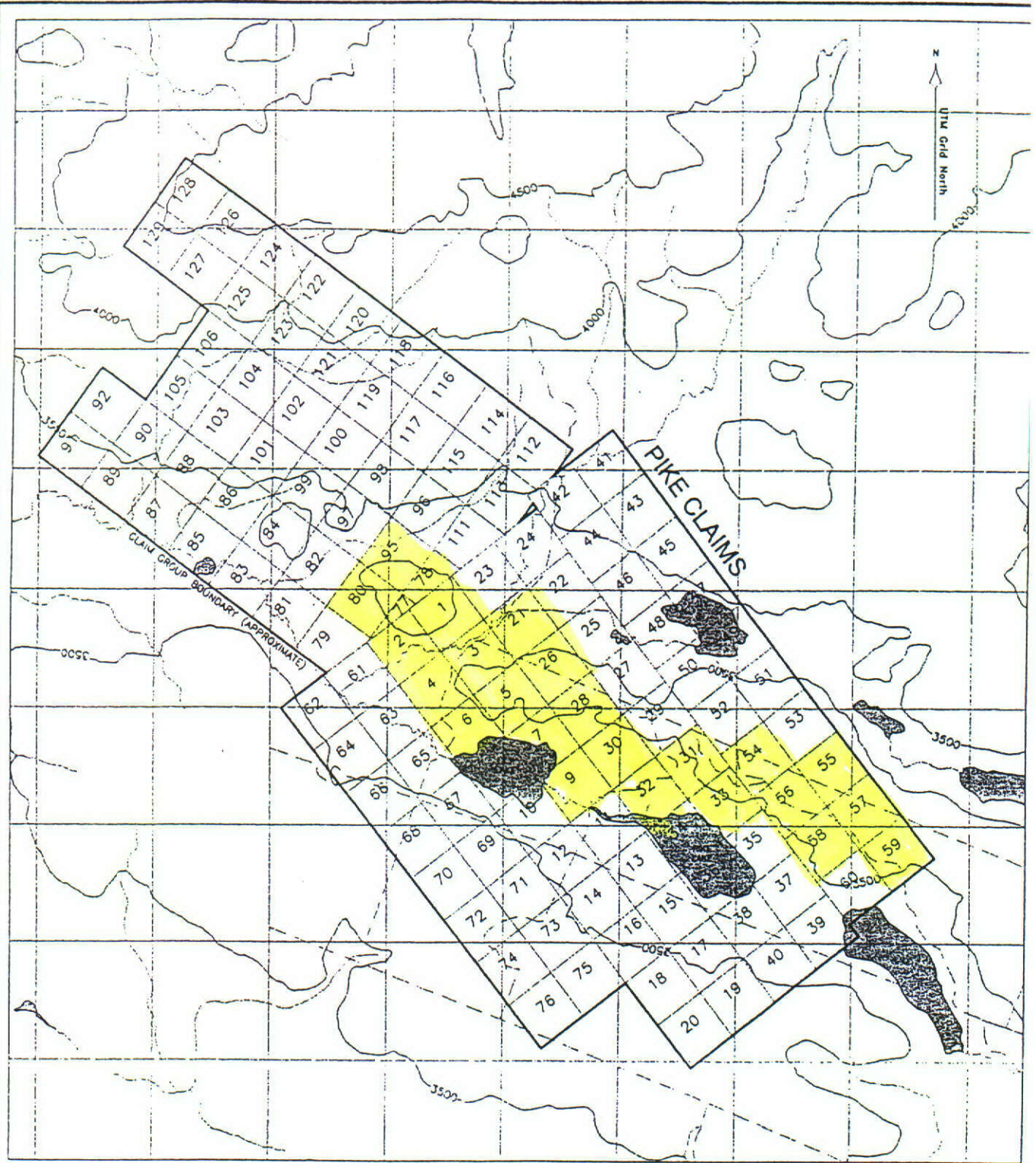


**LEGEND**

- stream, creek, lake
- trail
- claim group boundary

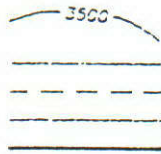


<b>NEWRISE RESOURCES</b>		
<b>PIKE PROPERTY Regional Plan</b>		
<i>Map of Pike Property</i>		
SCALE: 1 : 150,000	FILE: 245_2	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 2



**LEGEND**

- elevation contour interval, (500 feet)
- stream, creek, lake
- trail
- claim line
- claim group boundary



**094186**

**NEWRISE RESOURCES**

**PIKE PROPERTY  
Claim Plan**

*Graham Davidson, Consulting Geologist*

SCALE: 1 : 50,000

FILE: 245\_3

DATE: 98.02.14

NTS: 105 J/2

DRAWN:

FIGURE 3



# Claim Status Report

13 September 1999

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
R PIKE 1 - 6	YB87183 - YB87188	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 7	YB87488	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 9	YB87490	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 21	YB87753	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 26	YB87503	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 28	YB87505	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 30 - 33	YB87507 - YB87510	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 54 - 59	YB87531 - YB87536	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 77 - 78	YB87757 - YB87758	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 80	YB87760	1999/10/31	Pete Risby	100.00	105-J-02
R PIKE 95	YB87773	1999/10/31	Pete Risby	100.00	105-J-02

Criteria(s) used for search:

CLAIM NAME: PIKE CLAIM NTS: 105J02 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).  
P - Indicates the claim is pending.

Total claims selected : 25

## PROPERTY

The PIKE property consists of 25 contiguous mineral claims, as shown in Figure 3 and listed in Table 1.

**TABLE 1**

**CLAIM DATA**

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>EXPIRY DATE</u> * (applied for)
Pike 1-6	YB87183-YB87188	October 31, 1999*
Pike 7	YB87488	October 31, 1999*
Pike 9	YB87490	October 31, 1999*
Pike 21	YB87753	October 31, 1999*
Pike 26	YB87503	October 31, 1999*
Pike 28	YB87505	October 31, 1999*
Pike 30-33	YB87507-YB87510	October 31, 1999*
Pike 54-59	YB87531-YB87536	October 31, 1999*
Pike 77-78	YB87757-YB87758	October 31, 1999*
Pike 80	YB87760	October 31, 1999*
Pike 95	YB87773	October 31, 1999*

The PIKE claims were originally staked from August to October 1996 and recorded in the office of the district mining recorder in Watson Lake.

## ENVIRONMENT

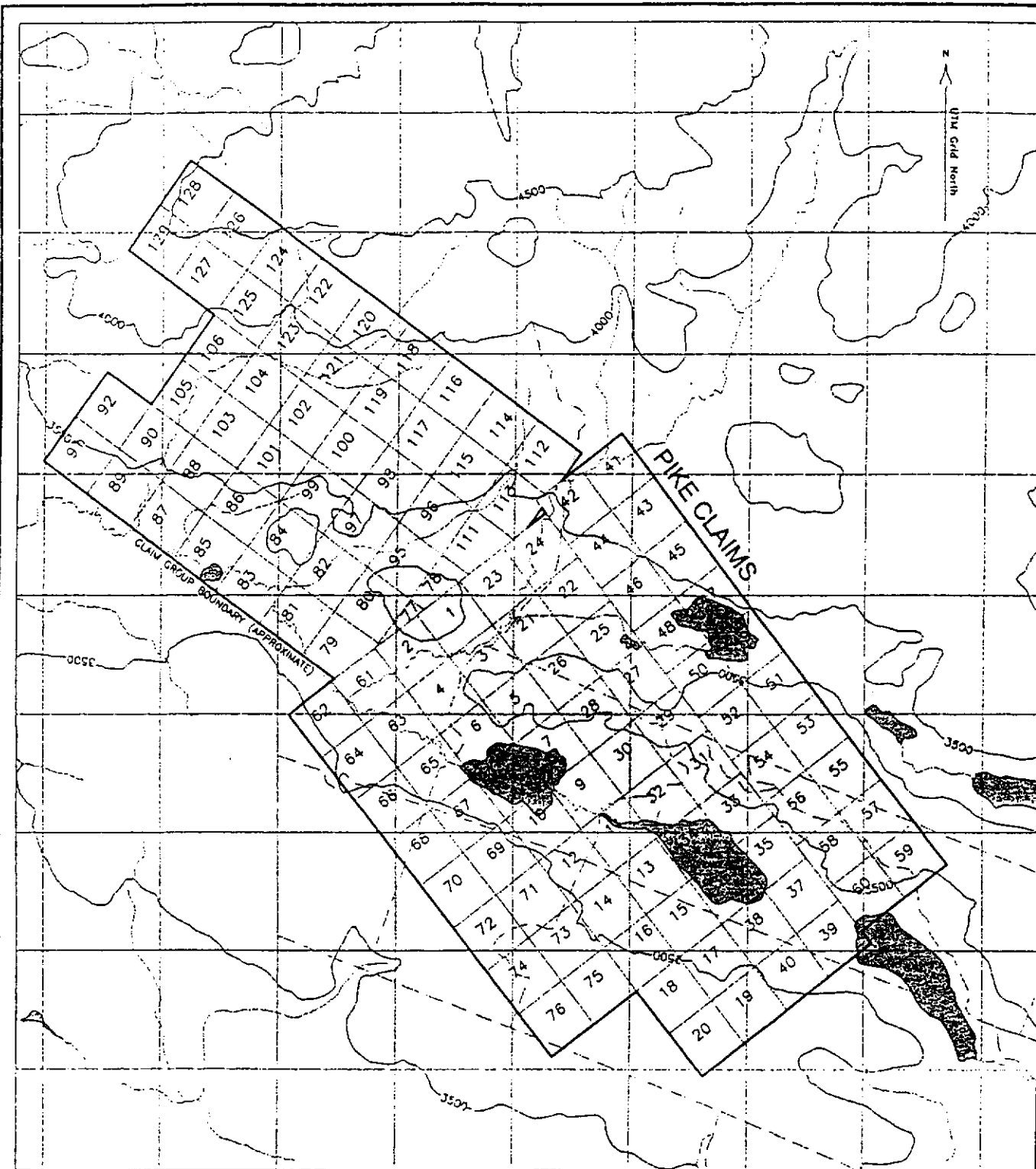
No special environmental concerns are known for this area. The Department of Indian and Northern Affairs is implementing land use regulations in the Yukon Quartz Mining Act. Under these regulations, approval of a land use permit is required prior to commencing exploration on a claim group. It is recommended that a Land Use Application for larger work programs be submitted at least 90 days prior to mobilization.

## REGIONAL GEOLOGY

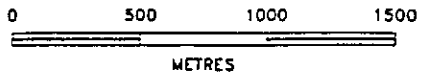
The rocks underlying Pike Lake district are mainly metasedimentary and include argillites, phyllites, limestones, cherts, slates, schists and quartzites of the Proterozoic to Lower Cambrian Hyland Group of the Selwyn Basin. Conformable lenses and sills of greenstone, probably Triassic in age, occur in profusion in places in the metasediments and a few narrow lamprophyre and quartz-porphyry sills, probably Jurassic or younger, are present locally. Granitic porphyry bodies of Cretaceous or younger age intrude the sediments and metasediments in the PIKE local. Copper-molybdenum porphyry style mineralization occurs within the intrusives and characteristic skarn zones are developed in calcareous metasedimentary rocks. In the late Mesozoic extensive thrust faulting accompanied the emplacement of Carboniferous and Permian dark green aphanitic basalt, dunite, peroxinite, peridotite, serpentized equivalents and quartz carbonate rock.

The claims lie north of the Tintina Fault, a large transcurrent Late Cretaceous to Tertiary fault system that caused at least 450 km of displacement. During the Eocene volcanism and sedimentation deposited sequences of basalt, rhyolite, felsic tuff and conglomerate in the Tintina depression. Late Tertiary uplift and faulting preserved Eocene volcanoclastic rocks in structurally complex grabens. Epithermal style gold and silver mineralization occurs at fault intersections in these grabens. Strong northwesterly trending fault zones in the Traffic Mountain area may be coeval to the Tintina system.

South of the Selwyn Basin the Yukon Tanana terrane is the focus of exploration for volcanogenic massive sulphide deposits. The increase in general interest in the region has led to a re-evaluation of prospects in the Selwyn Basin in particular mineralization occurring in association with Cretaceous intrusions and volcanic rocks. The Pike Lake region is underlain by a thick succession of gritty quartzites, cherts, slates and limestones intruded by granitic bodies. The Traffic Mountain Fault zone bisects the area as a northwest-southeast trending feature. Tertiary andesite and basalt flows occur along the fault zone and in the Pelly River valley. Metasedimentary units at Pike Lake strike 100-120° and dip 55-75° northeast. The most recent geological map of the district was compiled by Templeman-Kluit as Map 12-1961. Figure 4 shows the area geology and the Table of Formations is presented in Table III.



*Refer to  
Colour CD*



**LEGEND**

- elevation contour interval, (500 feet) 3500
- stream, creek, lake
- trail
- claim line
- claim group boundary

<b>NEWRISE RESOURCES</b>		
<b>PIKE PROPERTY Claim Plan</b>		
<i>Graham Davidson, Consulting Geologist</i>		
SCALE: 1 : 50,000	FILE: 245_3	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 3

## HISTORY

The Ross River area was first explored by Robert Campbell of the Hudson's Bay Company who descended the Pelly River in 1840. A trading post was established by the HBC at Francis Lake in the 1850's. Prospectors entered the country via the Liard River system around 1880 looking for placer gold deposits. Minor amounts were found along bars in the Finlayson River. Lode prospecting began in the 1950's and intensified in the 1960's with the discovery of the Anvil Pb-Zn deposit at Faro. Most of the mineral occurrences in the district were found at this time. Several staking rushes in the Ross River, Finlayson and Pelly River areas targeted massive sulfide mineralization in volcanogenic and replacement style deposits. A few narrow zones of sulfide mineralization were discovered on claims around Wolverine Lake and at the Pelly Banks. In the 1980's the potential for gold mineralization along the Tintina Fault sparked a staking rush and the Ketz River (Canamax) and Grew Creek deposits were outlined.

In the Yukon-Tanana terrane, Cominco discovered massive sulfide float near the North Lakes in 1993. Follow-up geochemistry and geophysics identified a promising anomaly that was drilled in 1994 and 1995 delineating the Kutz ze Kayah massive sulfide deposit. Cominco has staked about 10,000 claims in the district since the discovery of the mineralization. Westmin Resources Ltd. entered the picture by optioning Atna Resources Ltd. properties around Wolverine Lake in Jan., 1995. Westmin announced a volcanogenic massive sulfide discovery at the south end of Wolverine Lake in the summer of 1995. Mineralization has also been found on the Ice property of Expatriate Resources, the Fire Lake deposit of Columbia Gold, the Wolf property of Atna/YGC and the Money claims of Atna.

The dramatic increase in the level of exploration around Ross River has led to a re-evaluation of many mineral occurrences including those associated with Cretaceous intrusives in the Selwyn Basin.

The PIKE property was originally staked in 1966 by Atlas Explorations Ltd. after an airborne geophysical survey over the region. Copper-silver mineralization was originally found by Al Kulan near Pike Lake prior to the survey. Ground geophysical and geochemical surveys were followed by bulldozer trenching and limited diamond drilling. Two mineralized zones were identified: 1) the Pike zone averaging 0.61% copper and 83.56 gpt (2.44 opt) silver over a 15 x 200 m area; 2) the Poke zone, a strong Ag-As-Cu-Pb-Zn geochemical anomaly.

In 1966-1967 Atlas excavated 16 bulldozer trenches on the Pike and Poke zones totaling about 21,000 cubic meters of material moved. Detailed chip sampling of the trenches identified the following results:

TABLE II  
1966-1967 TRENCH SAMPLE VALUES

TRENCH NO.	INTERVAL	LENGTH	AVERAGE CU (%)	AVERAGE AG(opt)
Pike Zone				
T-43	45-90 Ft.	45 Ft	0.57	1.44
T-43A	20-58 Ft	38 Ft	0.69	1.50
T-44	5-55 Ft	50 Ft	0.40	0.93
T-45	25-45 Ft	20 Ft	0.45	1.20
T-48	0-135 Ft	135 Ft	0.36	2.58
	10-80 Ft	70 Ft	0.44	3.86
T-50	0-120 Ft	120 Ft	0.29	1.59
	25-60 Ft	35 Ft	0.61	2.48
Poke Zone				
T-TR Leg	0-25 Ft	25 Ft	1.48	2.91
T-TR	25-88 Ft	63 Ft	1.21	2.20
T-24E	170-225 Ft	35 Ft	Tr	4.33

One packsack drill hole (24m) was completed by Atlas in 1966.

Title to the property passed to Cima Resources Limited in the 1970's. Cima completed three diamond drill holes totaling 280.1 m in 1981. The holes intersected metasedimentary units and the porphyritic granitic sill. A band of mineralization in fractured granite porphyry at the footwall contact of trench T-48 produced the best drill result of 1.06% copper, 113 gpt (3.3 opt) silver, 0.39% lead, 0.80% zinc and 0.3 gpt gold over 5.0 m. The property was allowed to lapse in the mid 1980's.

Noranda Exploration restaked the prospect in 1989 and completed a new soil geochemical survey over the Pike and Poke zones. Similar results to those obtained by Atlas were found, but weak gold values in rock samples resulted in Noranda allowing the claims to lapse.

## TABLE III - TABLE OF FORMATIONS

(adapted from Templeman-Kluit, 1977)

### Quaternary

Q (15)-Undifferentiated, unconsolidated gravels, sands and clays

### Tertiary

Qtvb (14)-Basalt

Tscg-Sandstone, conglomerate, shale

Tgfp-Quartz-feldspar porphyritic rhyolite

Tv (14)-Volcanic flows and tuffs

### Cretaceous

Kg (13)-Buff to grey dykes, sills and small plugs of aplite and biotite granite; locally quartz, feldspar and/or biotite pyritic; minor arsenopyrite

### Triassic

Trd-Fine to medium-grained greenstone (meta-diorite, meta-gabbro)

### Carboniferous & Permian

CPav-Anvil Allocthan, amphibolite, greenstone, basalt, gabbro

CPas-Serpentinite

### Upper Devonian and Lower Mississippian

(5)-Chert pebble conglomerate, black and grey chert, shale, quartzite, slate and sandstone

### Ordovician and Silurian

(3)-Cherts, shales, quartzite, limestone, phyllite

### Proterozoic-Lower Cambrian

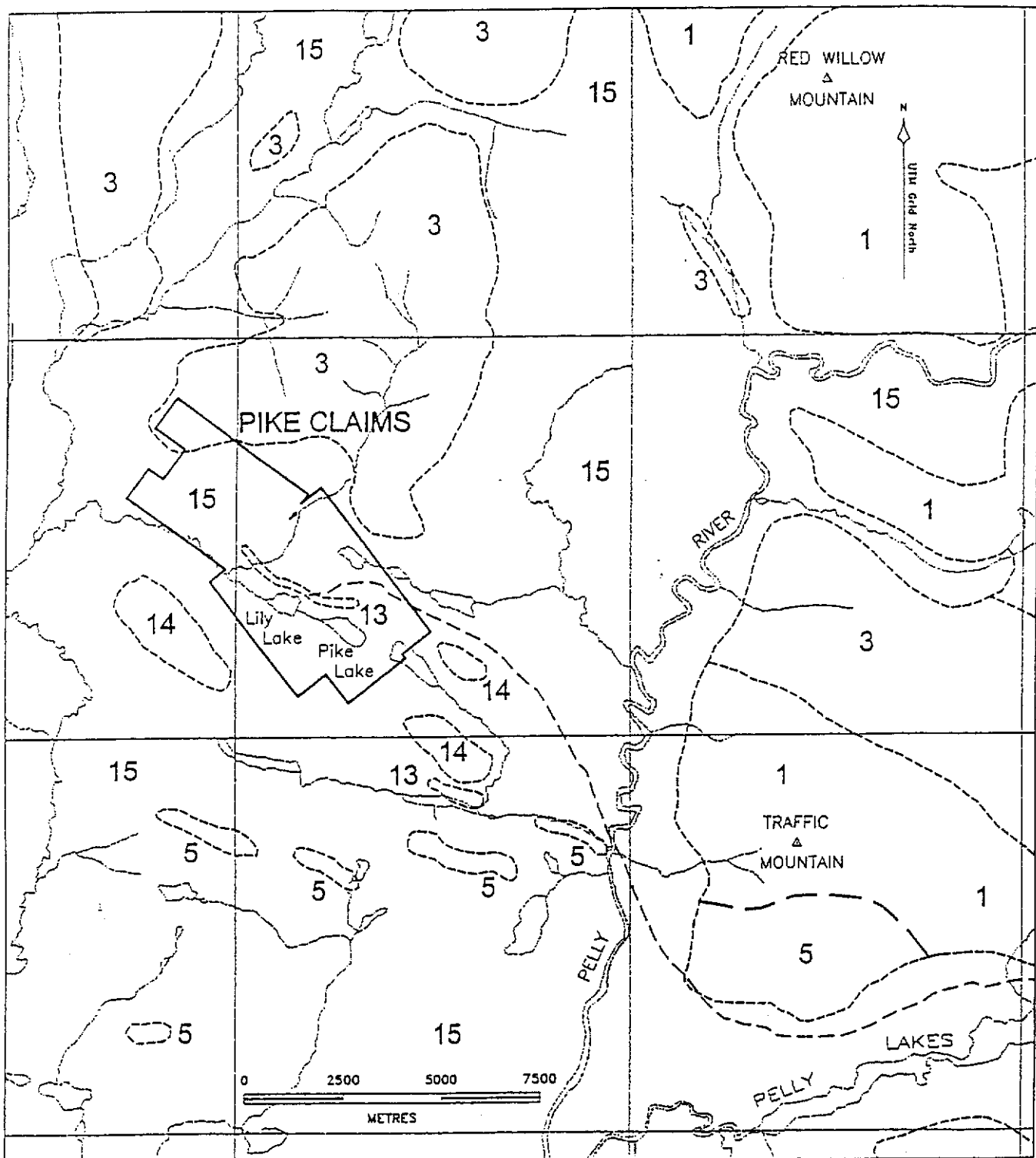
PPK-Klondike schist

Hyland Group-(1a)-Quartzite-pale grey to white-weathering with minor interbedded phyllite

(1b)-Phyllite and chert-thinly laminated black to grey sediments

(1c)-Marble, limestone-light grey to white, hematite and limonite staining

(1d)-Calc-silicate rock, diopside skarn and hornfels-black rusty weathering horizons, banded to disseminated pyrrhotite



**LEGEND & SYMBOLS**

- 15

**QUATERNARY**  
Unconsolidated alluvial and glacial deposits
- 14

**TERTIARY**  
Grey and dark grey andesite, dacite and basalt
- 13

**TERTIARY**  
Granodiorite quartz and feldspar porphyry, probably plutonic equivalent of 14
- 5

**UPPER DEVONIAN AND LOWER (?) MISSISSIPPIAN**  
Chert-pebble conglomerate; black & grey chert, shale, quartzite; black slate, shale, sandstone, phyllite; minor conglomerate
- 3

**ORDOVICIAN AND SILURIAN**  
Black and varicoloured cherts, shales; minor chert-pebble conglomerate, quartzite, limestone, phyllite; massive chert-pebble conglomerate

- 1

**PROTEROZOIC**  
Shale, slate, phyllite, quartzite; minor andesite quartz-pebble quartzite, grey quartzite, dark slate
- Geological contact (assumed)
- Fault (assumed)
- Stream, creek, lake
- 4-wheel drive trail
- Claim group boundary

<b>NEWRISE RESOURCES</b>		
<b>PIKE PROPERTY</b>		
<b>Regional Geology</b>		
<i>Graham Davidson, Consulting Geologist</i>		
SCALE: 1 : 150,000	FILE: 245_4	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 4

## RECENT EXPLORATION

Professional prospector Peter Risby, a prospecting assistant and a laborer, examined the PIKE property in August of 1999. Rock sampling and trenching was carried out to re-expose earlier workings dating back to 1967. Crews from Homestake Canada (August 23, 1998), Viceroy International Exploration (July 21-22, 1997), Teck Mining Corp. (June 25 & 27, 1997), Hastings Management Corp. (Sept. 3-5, 1996) also examined the PIKE.

The following personnel worked on the Pike claims:

August 21-25, 1999;	P. Risby (prospector) C. Risby (prospector assistant) R. Quesnel (laborer)
August 23, 1998;	M. Papageorge (geologist) P. Risby (prospector)
July 11 & August 1, 1997;	P. Risby (prospector)
July 21-22, 1997;	C. Shulze (senior geologist) G. Macintosh (geologist) P. Risby (prospector)
June 25 & 27, 1997;	J. Poulter (senior geologist) L. Grexton (geologist) P. Risby (prospector)
Sept. 3-5, 1996;	P. Van Angeren, (p. geologist) P. Risby (prospector) M. Barker (prospector assistant)

## PROPERTY GEOLOGY AND MINERALIZATION

The rocks exposed on the PIKE claims are Highland Group meta-sediments of the Selwyn Basin overlain and intruded by volcanic flows and dykes of undetermined age, in turn intruded by Cretaceous or younger granite. Graphitic to calcareous phyllite, chert, calc-silicate rock, marble, limestone and quartzite underlie most of the claim area. Small cliffs of quartzite along the creek gullies are highly fractured with hematite and pyrrhotite in the fractures. The units generally strike 100-120° and dip 45-65° northeast. Biotite granite consists of medium-grained to porphyritic varieties outcropping on the eastern side of the claim block. A large granitic body may underlie the area and is exposed at the PIKE as an east-west trending unit, 15-150 meters wide and 3.0 kilometers long. Structurally, the sedimentary units are folded and fractured by uplift, normal faults and thrust faulting. Movement on thrust and/or normal faults may have emplaced granite rocks. Figure 5 shows the property geology.

The following units were identified;

- Volcanic flows (14): andesitic to basaltic flows unconformably overlie the older units.
- Granite (13): fine to medium-grained to porphyritic body of biotite plagioclase granite, exposed in bulldozer trenches, fault bounded sill.
- Shale, sandstone and chert pebble conglomerate(5c):
- Chert and Shale (3): grey or black silicified, gossan zones around the granitic sills.
- Quartzite (1a): typically bedded light grey and white, glassy, fine to medium grained quartzite, locally gritty and recrystallized, contains sericite, minor pyrite and pyrrhotite on fracture faces.
- Phyllite and chert (1b): fine grained light to dark gray siliceous calcareous bedded sediments with disseminated to patchy pyrite and pyrrhotite, graphitic fracture faces, locally brecciated with minor white quartz and carbonate veining, weak to heavy limonite staining. Intersected by drilling in the footwall of the sill.
- Limestone and marble (1c): bedded grey-white, locally silicified containing minor cubic pyrite. Some diopside-magnetite-sulfide skarn development in limy units. Also, intersected in drill holes.
- Calc-silicate rock (1d): black fine-grained metasediment with banded and disseminated pyrrhotite, rusty red weathering, forms gossans in creek gullies.

Paleozoic graphitic argillites, shales and lesser limestone are folded and cut by NW trending faults parallel to the Traffic Mountain fault zone. The granitic sill, 10-40 meters wide at the Pike Zone has been traced over a 250 meter strike length. At the Poke zone the sill is up to 150 meters wide has been traced for over 3.0 kilometers. The sills are closely associated with the SE trending Traffic Mountain fault zone and are reported to dip to the SW.

The Pike zone was uncovered in a series of trenches in 1967 with the best mineralization found along the northern footwall contact. Mineralization is confined to the sill in an area of strong silicification and sericitization featuring NE trending shears and veins of sulfides. The entire 40 meter wide sill at the Pike zone is fractured with phyllic alteration containing disseminated pyrite and arsenopyrite with lesser chalcopyrite, sphalerite, tetrahedrite and trace galena. Samples collected from the trenches in 1967 outlined a mineralized zone averaging 82 gpt silver and 0.61% copper. Significant lead and zinc values were also present but were more variable than copper.

Samples collected in 1996-1999 produced similar results to those obtained by Atlas and Noranda.

Selected sample results and descriptions for the recent samples are listed in the Table below:

**TABLE IV**  
SELECTED SAMPLE VALUES

Samples taken by Hastings Management (\*); Viceroy (\*\*); Teck Corp. (\*\*\*); Homestake (\*\*\*\*);

Sample Number	Width M	AU PPB	AG PPM	CU PPM	AS PPM	PB PPM	ZN PPM
231432*	1	240	105	10170	1.30%	1160	2860
231441*	GRAB	170	75	8940	21.50%	900	1340
515472**	GRAB	865	34	2400	10000	266	220
517932**	GRAB	20	86.6	1.80%	84	36	970
517933**	1	5	15.6	200	352	950	1.13%
517934**	1.5	50	114	2590	10000	6790	878
517935**	GRAB	705	34.8	633	10000	726	260
517936**	GRAB	140	205	2320	10000	2.17%	1.64%
517941**	GRAB	10	92	776	1925	2.44%	1.81%
37401***		1290	60.6	5777	17.80%	2182	1261
37410***		145	63.2	1.51%	6.10%	206	1172
37482***		225	118.4	901	8.36%	1.18%	1201
37485***		10	606.8	2279	5165	9.63%	3.94%
01324****	ROCK	52	135.8g/ mt	3418	1.60%	3421	6632
01325****	ROCK	286	1030.9g/ mt	4.20%	15%	19440	4.30%
01326****	ROCK	197	18	392	19%	6358	10272
01327****	ROCK	180	46	5381	13%	1843	960
01328****	ROCK	232	59.1	3682	8.60%	1342	1058
19705****	ROCK	766	41.1	4618	13%	824	853
19706****	ROCK	2	25.5	1323	814	1666	806
19707****	ROCK	950	11.4	627	29%	3027	323
19708****	ROCK	56	13.2	414	5.50%	687	380
19709****	ROCK	2	4.2	30	761	257	25
<b>1999</b>		<b>PPB</b>	<b>g/mt</b>	<b>%</b>		<b>%</b>	<b>%</b>
1		<5	44.6	0.132		1.19	4.28
2		<5	53.3	0.074		1.92	2.92
3		142	379	0.748		1.21	1.82
4		528	86.2	0.987		0.409	0.328
5		450	254	0.532		0.875	3.38
6		601	585	0.981		3.290	2.01
7		583	111.3	0.19		0.541	0.62
8		303	330	1.07		3.000	3.3
9		584	143.9	0.407		0.219	0.07
10		250	373	1.1		0.783	1.08
11		1471	38.7	0.193		0.086	0.072
12		140	119.1	1.27		0.433	0.662
13		336	131	0.223		0.713	0.328
14		1908	80.7	0.45		0.402	0.227

## **GEOCHEMICAL AND GEOPHYSICAL SURVEYS 1966-1967 & 1989**

Assessment reports were reviewed in the preparation of this report and the Noranda geochemical data and Atlas geophysical data were reinterpreted to produce compilation maps, Figures 6-8 contained in Appendix I. The contour geochemical plots show the strong east-west anomalous trend overlying the intrusive rocks over a 3.0 km length. The stronger IP, electromagnetic and magnetometer responses are plotted on Figure 8. The geophysical anomalies are patchy but moderately coincidental with the intrusive unit and the strong east-west faults transecting the PIKE property.

### **DISCUSSION AND RECOMMENDATIONS**

Newrise holds a promising prospect and there is good potential for discovering additional copper-silver mineralization on the PIKE property. Geochemical and geophysical surveys are the most effective methods of locating mineralization and drill targets. Two main zones have been delineated by past geochemistry and bulldozer trenching. To date, numerous rock and chip samples of the mineralization have produced economic copper, lead, zinc and silver grades. However, the extent of the anomalies and the possibility of structurally controlled epithermal style mineralization suggest a favorable setting for further exploration.

Prior to diamond drilling, the assessment data should be compiled in a computerized database followed by IP and/or max-min surveys over the anomalous zones. The existing target areas are mineralized zones along the footwall contact of the sill at the Pike and Poke zones.

Two main target areas are identified on the property.

- 1) Pike zone (Anomaly A): Outlined by a multi-element geochemical anomaly, sinuous and patchy magnetic highs, moderate EM conductor and sulphide mineralization exposed in eight bulldozer trenches and intersected in one drill hole.
- 2) Poke zone (Anomalies B & C): Outlined by a strong multi-element geochemical anomaly, a broad magnetic low and several moderate strength EM responses over a 3.0 km length. Two drill holes and five bulldozer trenches expose disseminated sulfides along narrow NE trending fractures and shears in this zone.

The following exploration program is recommended.

## PROPOSED EXPLORATION PROGRAM

Compilation and interpretation of existing assessment data followed by grid development (cutlines) over selected portions of the anomalies. The old Atlas baseline and cut gridlines may be usable after slashing and chaining. IP and/or max-min surveys are recommended over the anomalies to facilitate drill site selection.

Diamond drilling, 300 meters on geophysical and geological targets.

## EXPLORATION PROGRAM BUDGET

Computerized database	7,500.00
Diamond drilling, 300 meters at \$120/m	36,000.00
Geological supervision and management	10,000.00
Surface exploration, line cutting, 15 km	9,000.00
Geophysical surveys, IP and/or max-min, 15 km	17,000.00
Camp, supplies and support	15,000.00
Transportation, helicopter, 60 hours at \$750/hour	45,000.00
Geochemistry, assays	3,000.00
Report, maps & assessment	<u>7,500.00</u>
sub total	\$150,000.00
Contingency, 10%	<u>15,000.00</u>
<b>TOTAL</b>	<b>\$165,000.00</b>

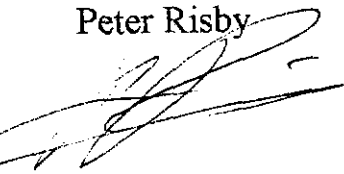
## CERTIFICATE

I, Peter Risby, of the town of Dawson City, in the Yukon Territory, hereby Certify:

1. That I am a professional prospector and that I have reviewed data provided by P. Risby, Homestake Canada, Teck Exploration Ltd., Viceroy International Exploration Ltd. and Hastings Management Ltd.
2. That I have been working as a prospector since 1964, beginning my career in the Yukon Territory.
3. That I am a professional prospector, having been inducted to the Yukon Prospector's Hall of Fame in November, 1996.
4. That I have been engaged in mineral exploration for over 35 years in the Yukon, Northwest Territories, British Columbia, Alaska and many other parts of the United States, Mexico and South America.

Signed at Whitehorse, Yukon, this 30<sup>th</sup> day of August, 1999.

Peter Risby



## REFERENCES

Brock J.S., 1967; Geological and Geophysical Report on the Pike Property for Atlas Explorations Ltd.

Geological Survey of Canada, Open File 1649, Regional Stream Sediment and Water Geochemical Data, Southeastern Yukon.

Glambos K.D., 1990; Geological and Geochemical Report on the Anky 1-32 Claims for Noranda Exploration Co. Ltd.

Johnston S. & Mortenson J., 1994; Regional setting of porphyry Cu-Mo deposits, volcanogenic massive sulfide deposits, and mesothermal gold deposits in the Yukon-Tanana terrane, Yukon.

Kidlark R.G., 1981; Report on Proposed 1981 Exploration Program for Cima Resources Ltd.

Papageorge Mike, 1998; Assessment Report on Pike Claims for Homestake Canada.

Read, W.S., 1979; Report on the Mount Hundere and Traffic Mountain Area Claim Groups for Cima Resources Ltd.

Smith C.L., 1967. Report on Bulldozer Trenching, Engineering Evaluation and Diamond Drilling on the Pike Mineral Claim Group for Atlas Explorations Ltd.

Temple-Man-Kluit D., 1975, Map 12-1961

Van Angeren, P., 1996; Summary Report on the Pike Property for Hastings Management Corp.

Vopel I., 1981; Diamond Drill Logs for Cima Resources Ltd

Yukon Minfile, DIAND, 1997

## STATEMENT OF COSTS

The following work was completed by Peter Risby, Christopher Risby and Raymond Quesnel on behalf of the Gullen Risby Family Trust between August 21 and August 25, 1999.

4 man days @ 200.00/day	\$ 800.00
4 man days @ 300.00/day	\$1,200.00
4 man days @ 150.00/day	\$ 600.00
2.0 hrs. helicopter @ 700.00/hr. (including fuel, GST)	\$1,668.78
14 samples (incl. GST)	<u>\$ 528.05</u>
TOTAL	\$4,796.83

Invoice for Analytical Services

To:

Pete Risby

Invoice Date: 13/09/99

WO# 00001

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
14	Sample Preparation: Rock/D.C. Sample Preparation	5.00	70.00
14	Analyses: Au 15 gm FA/AAS	8.75	122.50
14	AAS - Assay (4 elements)	21.50	301.00

Subtotal 493.50

GST @7% (R 121285662) 34.55

*(246.75)*

Total due on receipt of invoice **\$528.05**

2% per month charged on overdue accounts

*now 281.30*

PETER KESBY  
 CHARTERER  
 1/0 JOHN S BROCK LTD  
 BILLING ADDRESS  
 Suite 1407 675 West Hastings St. V6B-1N2

INVOICE DATE: 01/08/99  
 A/C TYPE: 206  
 AIRCRAFT REGISTRATION: GFKD  
 FLIGHT DATE: 25/08/99  
 PURCHASE ORDER NO.

FUEL & OIL: TINTA FUEL USED: 4DM  
 TINTA CUST: 1.0  
 HRS/MIN: 1.0  
 FROM

FROM	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
4DM			
TO TRAFFIC MAN			
4DM		1.0	

JSB LTD  
 OCT-978  
 12

SUB	GL	AMOUNT			
1607502		700.00	1.0	700.00	
1600131		79.80			
0000323		54.59	FUEL 114 HR	79.80	
TERMS: PAYABLE UPON RECEIPT OF INVOICE.			2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.		
X CHARTERER'S SIGNATURE			OTHER		
CHARTERER'S NAME (PRINTED)			OTHER		
INITIALS: GWS			SUB TOTAL: 779.80		
ENGINEER'S NAME: MRC MARK			GOODS & SERVICES TAX: 54.59		
			REGISTRATION NO. R121483135		
			TOTAL \$ 834.39		

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.  
 TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

THIS IS YOUR ONLY INVOICE - PAY UPON RECEIPT

PETER KESBY  
 CHARTERER  
 1/0 JOHN S BROCK LTD  
 BILLING ADDRESS  
 Suite 1407 675 West Hastings St. V6B-1N2

INVOICE DATE: 31/08/99  
 A/C TYPE: 206  
 AIRCRAFT REGISTRATION: GFKD  
 FLIGHT DATE: 21/08/99  
 PURCHASE ORDER NO.

FUEL & OIL: TINTA FUEL USED: 4DM  
 TINTA CUST: 1.0  
 HRS/MIN: 1.0  
 FROM

FROM	UP/DOWN TIME	HOURS	REMARKS - NO. OF PASS - FREIGHT Kg
4DM			
TO TRAFFIC MAN			
4DM		1.0	

JSB LTD  
 OCT-978  
 WR

SUB	GL	AMOUNT			
1607502		700.00	1.0	700.00	
1600131		79.80			
0000323		54.59	FUEL 114 HR	79.80	
TERMS: PAYABLE UPON RECEIPT OF INVOICE.			2% INTEREST PER MONTH (24% PER ANNUM) WILL BE CHARGED ON ALL OUTSTANDING AMOUNTS OVER 30 DAYS. IF INTEREST IS NOT PAID, FUTURE FLIGHTS WILL BE ON A CASH BASIS.		
X CHARTERER'S SIGNATURE			OTHER		
CHARTERER'S NAME (PRINTED)			OTHER		
INITIALS: GWS			SUB TOTAL: 779.80		
ENGINEER'S NAME: MRC MARK			GOODS & SERVICES TAX: 54.59		
			REGISTRATION NO. R121483135		
			TOTAL \$ 834.39		

CARRIAGE SUBJECT TO TERMS OF PUBLISHED TARIFF.  
 TARIFF AVAILABLE TO PUBLIC VIEW AT TRANS NORTH OFFICE.

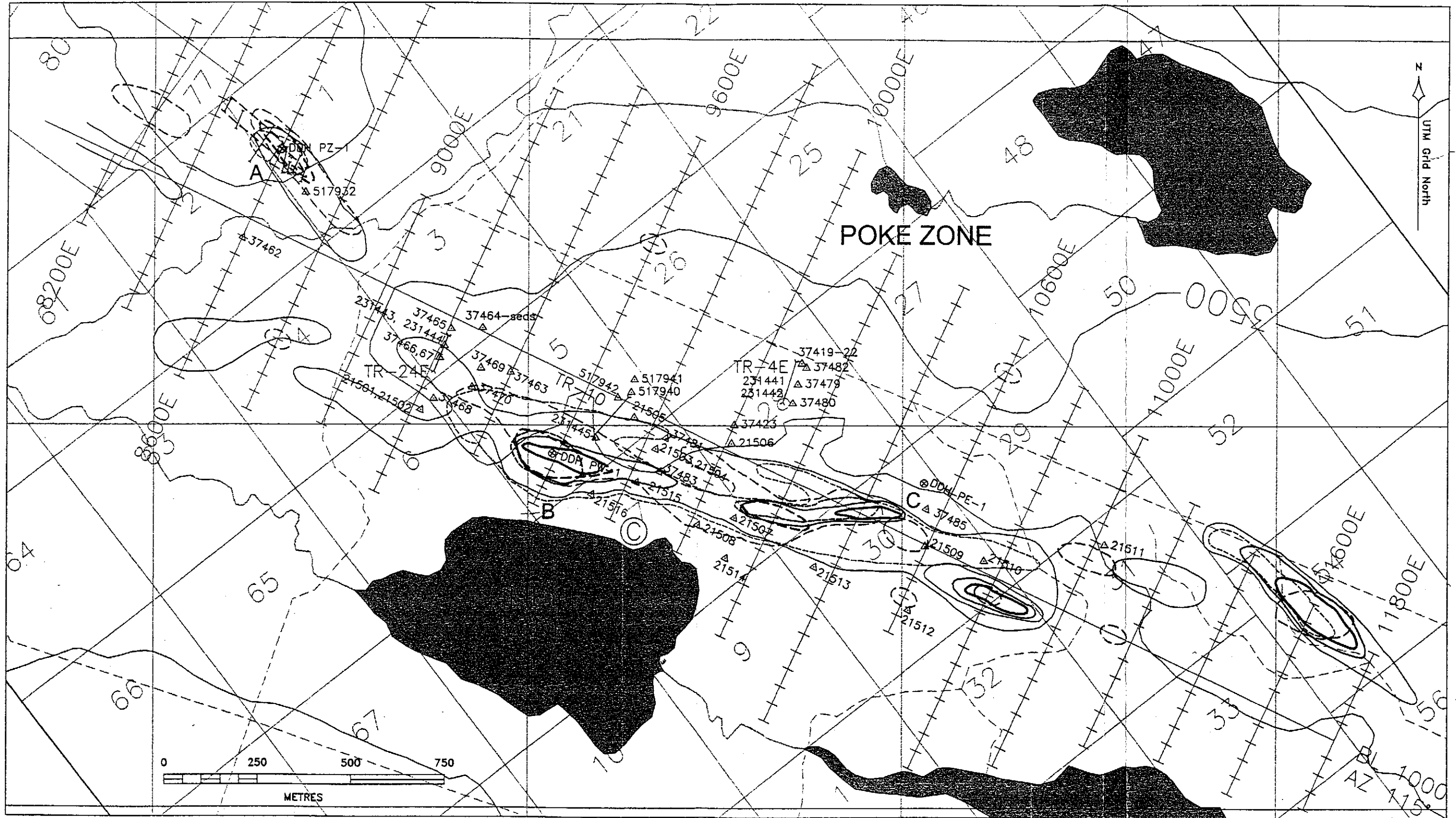
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 JOHN S BROCK LTD  
 PAGE 81

Aug. 25/99

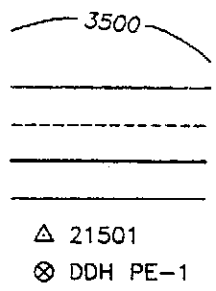
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\$800.00 (4 days @ 200.00) for assessment  
work (trenching) on Pitie Property for  
Peter Bisby.

Liane Beal

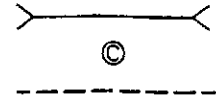


LEGEND

elevation contour  
Interval, (500 feet)  
stream, creek  
trail  
claim group boundary  
claim line  
rock sample, no.  
diamond drill hole, no.

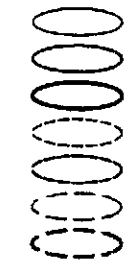


bulldozer trench  
camp location  
geologic contact, approximate



Geochemical Contours \*

Zn >200 ppm  
Zn >500 ppm  
Zn >1000 ppm  
Pb >100 ppm  
Pb >500 ppm  
Ag >1.0 ppm  
Ag >5.0 ppm



\* After Noranda soil data, 1989

**NEWRISE RESOURCES**

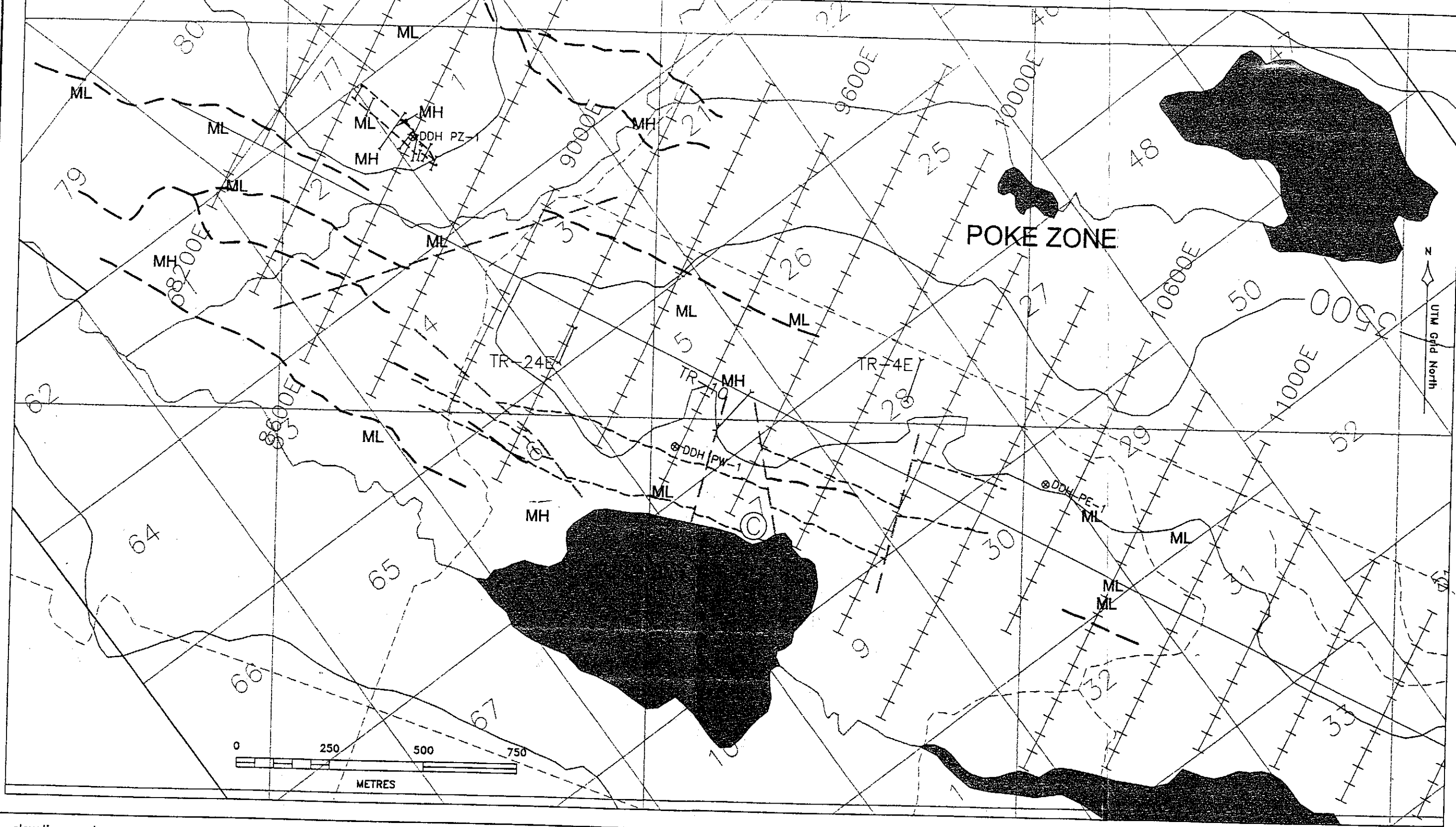
**PIKE PROPERTY  
COMPILATION MAP, Ag-Pb-Zn Contours**

*Graham Davidson, Consulting Geologist*

SCALE: 1:10,000	FILE: 245_6	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 6

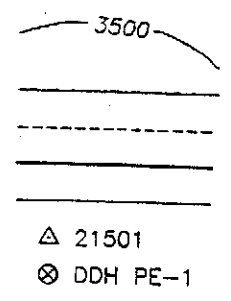




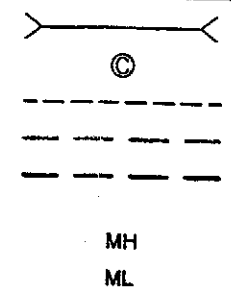


LEGEND

elevation contour  
interval, (500 feet)  
stream, creek  
trail  
claim group boundary  
claim line  
rock sample, no.  
diamond drill hole, no.



bulldozer trench  
camp location  
Geologic contact  
Fault  
EM, electromagnetic conductors  
CRONE EM  
Mag high  
Mag low



<b>NEWRISE RESOURCES</b>		
<b>PIKE PROPERTY</b>		
COMPILATION MAP, Ground Geophysical Anomalies		
<i>Graham Davidson, Consulting Geologist</i>		
SCALE: 1:10,000	FILE: 245_8	DATE: 98.02.14
NTS: 105 J/2	DRAWN:	FIGURE 9

APPENDIX II-CERTIFICATES OF ANALYSIS

TABLE 1 - 1996 SAMPLE DESCRIPTIONS & ASSAYS

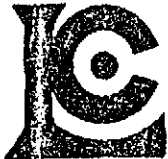
PIKE Claims

Sample #	Trench No	Location (m)	t (m)	Rock Type	Gold total g/T	Gold -150 g/T	Silver ppm	Copper ppm	Arsenic %	Lead ppm	Zinc ppm
<b>PIKE Zone</b>											
231431	Tr-404g	FW + 5	1.00	granite	0.07	0.07	19	760	1.3	1610	3000
231432	Tr-404g	FW + 10	1.00	granite	0.24	0.24	105	10170	5.7	1160	2860
231433	Tr-404g	FW	1.00	granite	-	-	43	1220	7.8	970	780
231434	Tr-404g	FW + 15	1.00	granite	0.07	0.07	98	2470	2.5	2680	3700
231435	Tr-404g	FW + 20	1.00	granite	0.07	0.07	24	3050	0.3	1420	1160
231436	Tr-404g	FW + 30	1.00	granite	0.07	0.07	71	1720	1.4	960	1660
231437	Tr-404g	FW + 40	1.00	granite	0.07	0.07	10	670	0.1	180	240
231438	Tr-45	FW	1.00	granite	-	-	96	1140	8.6	8010	5940
231439	Tr-43A	center	1.00	granite	0.07	0.07	16	1000	1.5	1840	1560
231440	Tr-44	center	1.00	granite	0.07	0.07	94	6830	1.4	1330	360
<b>POKE Zone</b>											
231441	Tr-4E	center	grab	granite	0.17	0.17	75	8940	21.5	900	1340
231442	Tr-4E	center	1.00	granite	0.07	0.07	2	150	0.0	100	100
231443	Tr-24E	FW + 5	1.00	granite	0.07	0.07	19	120	0.1	2880	900
231444	Tr-24E	FW + 20	1.00	granite	0.07	0.07	5	60	0.1	510	440
231445	Tr-10	center	1.00	granite	-	-	45	3700	12.1	1220	1040

Handwritten notes on the right side of the page, including a vertical list of numbers: 15, 22, 17, 24, and a horizontal line under the number 24.

Handwritten notes on the left side of the page, including the number 30 and some illegible scribbles.

Handwritten number 2408 at the bottom center of the page.



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2G1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: HASTINGS MANAGEMENT CORP.

1000 - 676 W. HASTINGS  
VANCOUVER, BC  
V8B 1N8

Project: PIKE  
Comments: ATTN:PHIL VAN ANGEREN

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 30-OCT-96  
Invoice No. : 19633020  
P.O. Number :  
Account : JCL

## CERTIFICATE OF ANALYSIS A9633020

SAMPLE	PREP CODE	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)
231431	205 234	19.0	7.20	1500	< 10	40	0.55	60	20	160	760	2.80	5.5	0.50	60
231432	205 234	105.0	6.40	1400	< 10	140	0.20	70	30	90	10170	7.80	6.1	0.20	20
231433	205 234	43.0	6.35	1700	< 10	120	0.65	60	40	120	1220	8.10	5.3	0.35	50
231434	205 234	88.0	7.15	2100	< 10	120	0.80	80	10	170	2470	3.90	6.6	0.30	80
231435	205 234	24.0	7.45	1600	< 10	60	0.65	10	10	150	3050	1.90	6.3	0.40	60
231436	205 234	71.0	6.15	1700	< 10	20	0.50	40	< 10	180	1720	2.25	6.1	0.20	50
231437	205 234	10.0	7.55	1500	< 10	< 20	0.55	< 10	< 10	130	670	2.00	6.0	0.45	60
231438	205 234	96.0	2.90	900	< 10	180	0.60	130	40	190	1140	8.60	1.7	0.25	60
231439	205 234	16.0	9.45	3200	< 10	20	1.15	30	< 10	30	1000	1.75	10.3	0.30	120
231440	205 234	94.0	9.10	3800	< 10	60	0.10	10	10	40	6830	3.40	10.3	0.05	< 10
231441	205 234	75.0	5.65	700	< 10	200	0.45	70	< 10	40	8940	19.85	3.1	0.05	30
231442	205 234	2.0	8.00	1300	< 10	< 20	1.30	< 10	< 10	170	150	2.55	1.7	0.65	170
231443	205 234	19.0	10.85	1900	< 10	< 20	0.60	< 10	< 10	40	120	7.25	5.4	0.95	610
231444	205 234	5.0	7.05	600	< 10	20	0.10	< 10	< 10	170	60	1.60	3.6	0.20	90
231445	205 234	45.0	6.60	1200	< 10	120	0.50	40	10	90	3700	13.30	5.2	0.30	70

CERTIFICATION: Hart Buchler

JAN 09 1997 11:37 PM HASTINGS MGMT CORP 604 685 3764 TO 14035622457 P.15/20



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: HASTINGS MANAGEMENT CORP.

1000 - 875 W. HASTINGS  
VANCOUVER, BC  
V6B 1N6

Project: PIKE  
Comments: ATTN: PHIL VAN ANGEREN

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 30-OCT-98  
Invoice No. : 19833020  
P.O. Number :  
Account : JCL

## CERTIFICATE OF ANALYSIS A9633020

SAMPLE	PREP CODE	Mo ppm (ICP)	Na % (ICP)	Ml ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Tl % (ICP)	V ppm (ICP)	Zn ppm (ICP)	As %	Hg %				
231431	205 234	< 10	0.35	< 10	0.161	170	0.20	40	1000	1.28	< 0.001				
231432	205 234	< 10	0.40	< 10	0.116	200	0.10	30	2960	5.73	< 0.001				
231433	205 234	< 10	0.60	10	0.097	220	0.15	40	780	7.80	< 0.001				
231434	205 234	< 10	0.60	< 10	0.268	260	0.20	40	3700	2.52	< 0.001				
231435	205 234	10	0.55	< 10	0.142	200	0.20	30	1160	0.27	< 0.001				
231436	205 234	< 10	0.25	< 10	0.096	140	0.10	30	1660	1.40	< 0.001				
231437	205 234	< 10	0.75	< 10	0.018	240	0.20	30	240	0.05	< 0.001				
231438	205 234	< 10	0.45	< 10	0.801	130	0.05	10	5940	8.56	< 0.001				
231439	205 234	< 10	0.40	< 10	0.184	330	0.20	50	1560	1.48	< 0.001				
231440	205 234	< 10	0.40	< 10	0.133	400	0.10	10	360	1.42	< 0.001				
231441	205 234	< 10	0.95	< 10	0.090	230	0.15	30	1340	21.6	< 0.001				
231442	205 234	< 10	1.50	< 10	0.010	250	0.25	50	100	0.03	< 0.001				
231443	205 234	< 10	0.35	< 10	0.288	110	1.25	240	900	0.09	< 0.001				
231444	205 234	< 10	1.40	< 10	0.051	70	< 0.05	< 10	440	0.10	< 0.001				
231445	205 234	< 10	6.75	< 10	0.122	250	0.15	30	1040	12.10	< 0.001				

CERTIFICATION:

*Walter Buchler*

JAN 09 '97 11:38 FR HASTINGS MGMT CORP 604 685 3764 TO 14036652467 P. 20/20



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: HASTINGS MANAGEMENT CORP. ##

1000 - 875 W. HASTINGS  
VANCOUVER, BC  
V6B 1N8

Project: PIKE  
Comments: ATTN:PHIL VAN ANGEREN

Page Number : 1  
Total Pages : 1  
Certificate Date: 28-SEP-96  
Invoice No. : 19633019  
P.O. Number :  
Account : JCL

## CERTIFICATE OF ANALYSIS A9633019

SAMPLE	PREP CODE	Au tot g/t	Au - g/t	Au + mg	Wt. - grams	Wt. + grams					
231431	3288 294	< 0.07	< 0.07	< 0.002	1082	19.68					
231432	3288 294	0.24	0.24	0.002	1228	12.16					
231433	3288 294										
231434	3288 294	< 0.07	< 0.07	< 0.002	1337	6.07					
231435	3288 294	< 0.07	< 0.07	< 0.002	1281	20.95					
231436	3288 294	< 0.07	< 0.07	< 0.002	1405	6.91					
231437	3288 294	< 0.07	< 0.07	< 0.002	918	14.92					
231438	3288 294										
231439	3288 294	< 0.07	< 0.07	< 0.002	1021	14.72					
231440	3288 294	< 0.07	< 0.07	0.006	1221	8.43					
231441	3288 294	0.17	0.17	0.004	969	19.40					
231442	3288 294	< 0.07	< 0.07	< 0.002	1055	2.39					
231443	3288 294	< 0.07	< 0.07	< 0.002	1035	12.99					
231444	3288 294	< 0.07	< 0.07	< 0.002	1205	2.66					
231445	3288 294										

CERTIFICATION:

*Phil Van Angeren*

JAN 09 '97 11:37 FR HASTINGS MGMT CORP 604 685 3764 TO 14036682467 P.18/28

Pike

Sample Nos	37401 - 410	(10)	
	37419 - 423	(5)	
	37451 - 460	(10)	
	37461	(soil) (1)	
	37462 - 470	(9)	
	37479 - 485	(7)	@ 20. ea
		<u>42</u>	840

Dates visited : June 25, 1997  
June 27

Personnel:	Jean Pautler 2d @ 300./day	600
	Lynn Grexton 2d @ 250./day	500
	Pete Risby 2d	600

Helicopter :	Trans. North	\$ 2,835.	2,835
--------------	--------------	-----------	-------

5,375

FEED FAX THIS END

To: <u>Graham Davidson</u>
Dept: <u>Modern Batters</u>
Fax No.: <u>867 608 2467</u>
No. of Pages: <u>1</u>
From: <u>Jean Pautler</u>
Date: <u>10/11/97</u>
Company: <u>Teck</u>
Fax No.: <u>250 373 1285</u>
Comments: <u>Will bring pictures to Grassland</u>
Post-it: <u>fax per 7/10/85</u>

9-Jul-97  
**ECO-TECH LABORATORIES LTD.**  
 10041 East Trans Canada Highway  
 KAMLOOPS, B.C.  
 V2C 6T4

Phone: 604-573-5700  
 Fax: 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 97-028R

TECK EXPLORATION LTD.  
 #350-272 VICTORIA STREET  
 KAMLOOPS, B.C.  
 V2C 2A2

ATTENTION: JEAN PAUTLER

No. of samples Received: 25  
 Sample Type: ROCK  
 PROJECT #: 1389-8  
 SHIPMENT #: 1  
 Samples submitted by: JEAN PAUTLER

Values in ppm unless otherwise reported

Et #	Tag #	Au(ppb)	Ag	Al%	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Ph	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	37401	>1000	>30	0.14	>10000	100	<5	0.04	610	288	65	5777	>10	<10	<0.01	16	17	<0.01	3	<10	2182	<5	<20	6	<0.01	<10	4	<10	<1	1261
2	37402	155	>30	0.15	>10000	50	<5	0.06	<1	15	64	>10000	6.45	<10	<0.01	10	0	<0.01	3	>10000	780	<5	60	3	<0.01	<10	2	<10	<1	1560
3	37403	260	>30	0.08	>10000	55	<5	<0.01	719	37	149	>10000	>10	<10	<0.01	132	2	<0.01	6	<10	>10000	<5	<20	11	<0.01	<10	2	<10	<1	>10000
4	37404	20	2.0	0.61	6925	45	<5	0.58	<1	18	81	403	2.48	20	0.21	68	5	<0.01	6	440	104	<5	<20	10	<0.01	<10	7	<10	20	498
5	37405	205	>30	0.18	>10000	50	<5	0.03	<1	25	64	1771	4.58	<10	<0.01	21	6	<0.01	3	190	792	<5	<20	8	<0.01	<10	3	<10	<1	114
6	37406	6	>30	0.30	725	50	<5	0.42	2	1	107	3188	1.20	10	0.15	20	5	<0.01	3	400	498	<5	<20	4	<0.01	<10	3	<10	16	427
7	37407	6	>30	0.03	7680	15	100	2.50	65	6	228	311	1.17	<10	<0.01	173	9	<0.01	5	<10	6620	<5	<20	53	<0.01	<10	1	<10	<1	4080
8	37408	6	0.8	1.31	145	45	<5	0.84	2	7	122	185	3.28	20	0.49	78	3	0.09	4	410	56	<5	<20	39	0.12	<10	21	<10	29	98
9	37409	5	<0.2	1.99	80	60	<5	0.99	3	10	112	142	3.75	<10	0.86	122	5	0.16	6	450	32	<5	<20	78	0.08	<10	31	<10	20	217
10	97410	145	>30	0.29	>10000	70	<5	2.30	<1	108	34	>10000	>10	10	<0.01	75	11	<0.01	2	<10	208	<5	<20	75	<0.01	<10	2	<10	<1	1172
11	37411	5	0.6	1.25	<5	140	55	0.12	283	30	60	1258	>10	<10	1.02	351	17	<0.01	21	70	66	<5	<20	7	<0.01	<10	16	<10	<1	>10000
12	37412	5	>30	3.88	25	70	<5	0.56	521	42	145	>10000	>10	<10	1.47	4470	<1	<0.01	21	<10	>10000	<5	40	10	0.35	<10	65	<10	<1	>10000
13	37413	5	>30	3.72	<5	75	<5	0.85	74	15	144	4568	>10	<10	1.70	3835	<1	0.04	22	650	1648	<5	<20	32	0.25	<10	60	340	<1	4669
14	37414	5	2.0	3.63	20	120	<5	2.56	2	14	80	77	5.10	10	1.05	652	3	0.13	4	660	130	<5	<20	72	0.18	<10	86	10	27	195
15	37415	5	0.6	0.37	<5	35	<6	0.87	1	1	200	24	0.45	<10	0.35	159	8	0.02	6	200	20	<5	<20	18	0.02	<10	6	<10	3	74
16	37416	5	0.4	3.91	15	100	10	2.70	<1	17	105	32	5.22	10	1.67	835	3	0.18	6	580	38	<5	<20	114	0.16	<10	84	<10	28	89
17	37417	5	<0.2	1.80	30	220	<5	1.78	2	11	186	73	2.69	20	1.64	109	4	0.08	30	8460	10	<5	<20	40	0.14	<10	322	<10	48	85
18	37418	5	0.8	0.18	10	25	<5	0.16	<1	1	185	9	0.80	<10	0.09	167	7	0.02	4	130	78	<5	<20	2	<0.01	<10	27	<10	4	53
19	37419	5	2.8	0.50	100	35	<5	1.58	1	8	128	89	2.33	<10	0.20	350	8	0.02	4	270	170	<5	<20	38	0.01	<10	9	<10	26	104
20	37420	5	0.8	0.72	<5	25	<5	1.29	<1	4	145	17	1.79	<10	0.27	386	6	0.03	5	280	48	<5	<20	28	0.03	<10	13	<10	29	51
21	37421	5	<0.2	1.78	30	85	<5	1.31	<1	9	112	9	2.93	10	0.63	508	3	0.00	7	430	20	<5	<20	42	0.13	<10	38	20	41	30
22	37422	5	<0.2	5.35	5	195	<5	5.12	<1	38	33	117	8.64	<10	1.65	687	<1	0.91	28	1070	38	<5	<20	370	0.29	<10	179	<10	23	62
23	37423	5	3.2	1.33	5	75	<5	1.25	3	9	122	35	3.28	20	0.82	834	5	0.04	7	460	134	<5	<20	34	0.04	<10	32	<10	41	266
24	37424	5	<0.2	0.08	<5	40	<5	0.02	<1	2	305	5	1.15	<10	<0.01	329	11	<0.01	10	70	<2	<5	<20	<1	<0.01	<10	4	<10	<1	<1
25	37425	50	0.2	2.01	10	100	<5	0.04	<1	25	57	143	5.30	10	0.77	519	5	0.02	47	220	24	<5	<20	3	0.02	<10	23	<10	<1	41
QC DATA:																														
Resplit:																														
1	37401	>1000	>30	0.1	>10000	80	<5	<0.01	98	258	36	5777	>10	<10	<0.01	<1	17	<0.01	7	<10	2182	<5	<20	2	<0.01	<10	2	<10	<1	1261
Repeat:																														
1	37401	>1000	>30	0.10	>10000	85	<5	0.01	994	228	53	5297	>10	<10	<0.01	3	15	<0.01	5	<10	2090	<5	<20	4	<0.01	<10	2	<10	<1	1184
10	37410	155	>30	0.31	>10000	70	<5	2.43	<1	108	36	>10000	>10	20	<0.01	83	11	0.01	4	<10	204	<5	<20	77	<0.01	<10	3	<10	<1	1211
19	37419		2.8	0.60	100	35	<5	1.68	21	5	135	80	2.52	<10	0.22	382	7	0.02	5	290	180	<5	<20	41	0.01	<10	10	<10	28	111
Standard:																														
GEO 97		150	1.4	1.73	55	155	<5	1.89	<1	18	82	78	4.04	<10	0.90	663	<1	0.02	24	810	22	<5	<20	83	0.12	<10	76	<10	18	65

Pike

Prime  
Prime  
Prime  
Sask

Pike

Riddell  
Square

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

11-Jul 97

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

Phone: 604-573-5700

ICP CERTIFICATE OF ANALYSIS AK 97-629

TECK EXPLORATION LTD.  
#350-272 VICTORIA STREET  
KAMLOOPS, B.C.  
V2C 2A2

ATTENTION: JEAN PAUTLER  
No. of samples Received: 31  
Sample Type: ROCK  
PROJECT #: 1309-8  
SHIPMENT #: 1  
Sample submitted by: JEAN PAUTLER

Values in ppm unless otherwise reported

Et.#	Tag #	Au(ppbv)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	37462	5	2.4	3.62	190	60	5	1.37	80	12	70	120	4.48	<10	2.65	518	2	0.21	27	720	162	45	<20	124	0.11	<10	106	<10	3	6280
2	37463	NO SAMPLE																												
3	37464	5	14.4	3.72	20	50	<5	2.38	97	13	38	415	6.41	<10	0.73	342	<1	0.31	15	880	7700	5	<20	178	0.08	<10	21	<10	<1	5484
4	37465	5	0.4	1.74	30	75	<5	0.84	1	6	61	38	2.49	<10	0.51	198	<1	0.12	2	440	120	<5	<20	51	0.10	<10	31	<10	23	78
5	37466	5	4.8	0.02	1680	45	<5	0.48	<1	5	56	182	2.75	<10	0.36	73	1	0.06	6	370	342	5	<20	20	0.04	<10	14	<10	19	517
6	37467	5	2.6	0.53	85	35	<5	1.14	7	5	62	181	3.05	20	0.18	62	5	0.03	6	470	152	<5	<20	28	<0.01	<10	7	<10	33	396
7	37468	5	12.4	0.41	1750	45	<5	0.31	39	3	41	281	3.15	<10	0.15	41	1	0.02	2	440	538	10	<20	16	<0.01	<10	5	<10	7	3098
8	37469	5	>30	3.67	55	50	<5	2.04	209	12	81	431	7.33	<10	2.13	634	<1	0.29	13	1260	>10000	65	<20	120	0.15	<10	40	<10	<1	>10000
9	37470	75	21.8	0.46	>10000	45	<5	0.24	<1	20	27	2022	8.46	<10	0.13	31	7	0.03	4	300	514	105	<20	17	<0.01	10	9	<10	<1	250
10	37471	5	25.6	2.81	155	45	<5	0.58	237	13	70	1237	>10	<10	1.58	2516	<1	0.07	11	660	656	<5	<20	52	0.15	<10	48	<10	<1	>10000
11	37472	5	>30	5.45	80	45	<5	0.21	>1000	82	41	>10000	>10	<10	2.32	5599	<1	<0.01	6	<10	>10000	<5	<20	<1	0.04	<10	85	<10	<1	>10000
12	37473	730	>30	1.57	<5	50	<5	1.24	11	70	22	>10000	>10	<10	0.51	745	9	0.03	12	<10	330	<5	<20	28	0.06	<10	11	<10	<1	459
13	37474	5	1.2	1.37	20	35	<5	0.16	<1	36	130	188	3.67	<10	0.66	1058	4	0.01	30	610	128	<5	<20	5	<0.01	<10	17	<10	<1	126
14	37475	5	0.8	0.24	25	810	<5	0.03	<1	<1	137	98	0.82	<10	0.04	39	51	<0.01	10	210	38	15	<20	15	<0.01	<10	175	<10	6	86
15	37476	5	0.6	0.31	20	55	<5	0.74	1	2	157	97	0.49	<10	0.45	153	3	0.02	5	210	48	5	<20	13	0.01	<10	10	<10	5	124
16	37477	5	1.0	3.17	10	75	<5	1.98	2	12	76	116	4.14	<10	1.34	425	2	0.13	2	490	80	5	<20	81	0.08	<10	56	<10	24	202
17	37478	5	0.8	0.26	15	185	<5	0.17	2	1	153	104	0.56	<10	0.30	120	2	0.01	4	130	58	5	<20	27	0.02	<10	10	<10	3	185
18	37479	15	>30	0.46	>10000	55	<5	0.61	240	21	41	2288	>10	<10	0.43	1354	<1	<0.01	4	<10	>10000	350	1700	<1	0.02	<10	11	<10	<1	>10000
19	37480	5	>30	2.15	825	<5	<5	1.41	202	8	68	529	7.22	<10	3.23	2686	<1	<0.01	3	600	>10000	110	500	<1	0.09	<10	28	<10	<1	>10000
20	37481	5	4.8	0.52	95	35	<5	0.81	8	4	83	152	3.08	<10	0.17	423	3	0.01	5	300	506	75	<20	10	<0.01	<10	7	<10	16	763
21	37482	225	>30	0.35	>10000	55	<5	0.22	<1	27	72	901	>10	<10	<0.01	44	14	<0.01	3	<10	>10000	680	1240	32	<0.01	20	2	<10	<1	1201
22	37483	5	18.6	1.03	1975	30	<5	0.57	<1	8	59	88	2.31	<10	0.34	587	2	0.06	6	350	986	20	<20	32	0.05	<10	16	<10	17	281
23	37485	10	>30	0.06	5165	55	75	0.02	428	12	18	2279	>10	<10	<0.01	815	<1	<0.01	2	<10	>10000	1420	1760	2	<0.01	20	2	<10	<1	>10000
24	37486	5	1.8	0.16	70	65	<5	0.02	<1	2	177	23	0.81	<10	0.09	208	4	<0.01	9	100	244	<5	<20	2	<0.01	<10	4	<10	<1	127
25	37487	5	0.4	0.04	30	30	<5	<0.01	<1	3	182	15	0.48	<10	<0.01	208	3	<0.01	4	60	38	<5	<20	<1	<0.01	<10	1	<10	<1	33

17-Jul-97

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 97-627

TECK EXPLORATION LTD.  
#350-272 VICTORIA STREET  
KAMLOOPS, B.C.  
V2C 2A2

Phone: 604-573-5700  
Fax : 604-573-4557

ATTENTION: JEAN PAUTLER

No. of samples Received: 9  
Sample Type: ROCK  
PROJECT #: 1389-8  
SHIPMENT #: 1  
Sample submitted by: JEAN PAUTLER

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	TI %	U	V	W	Y	Zn
1	37451	5	<0.2	2.24	35	80	<5	>10	<1	8	40	18	1.81	<10	1.68	1231	<1	0.14	13	840	22	60	<20	388	0.09	<10	65	<10	20	56
2	37452	5	29.8	1.84	470	95	<5	0.58	34	5	113	223	4.48	<10	1.83	194	3	0.08	4	750	>10000	200	<20	83	0.12	<10	71	<10	9	1951
3	37453	5	6.8	1.17	9250	<5	<5	0.60	<1	<1	81	70	2.88	<10	0.45	46	3	0.07	6	<10	<2	95	<20	<1	0.03	<10	37	<10	<1	30
4	37455	105	>30	0.02	>10000	<5	190	0.20	688	17	154	69	7.43	<10	<0.01	73	29	<0.01	21	110	4492	855	<20	<1	<0.01	<10	10	<10	6	925
5	37458	10	>30	0.14	2250	<5	<5	0.20	6	<1	144	742	0.80	10	0.03	35	6	<0.01	3	210	1384	365	<20	<1	<0.01	<10	21	<10	47	1409
6	37457	5	0.2	2.20	45	105	<5	1.07	<1	8	149	97	2.80	<10	0.74	202	2	0.14	4	460	24	20	<20	72	0.15	<10	43	<10	45	29
7	37458	5	0.4	1.27	25	60	<5	1.07	<1	7	108	153	2.80	<10	0.58	89	<1	0.10	4	420	28	15	<20	33	0.13	<10	29	<10	52	20
8	37459	5	1.8	2.82	300	55	<5	1.46	20	8	125	180	3.31	<10	1.82	187	11	0.14	23	1850	138	40	<20	137	0.11	<10	140	<10	36	1483
9	37460	10	>30	0.08	3655	15	<5	4.11	18	2	158	3120	1.28	<10	0.03	573	4	<0.01	2	<10	3224	420	<20	79	<0.01	<10	2	<10	2	2182

QC DATA:

Resplit:

1	37451	5	<0.2	2.32	30	95	10	>10	<1	8	44	20	2.01	<10	1.85	1310	<1	0.17	18	860	24	70	<20	398	0.11	<10	75	<10	24	84
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Repeat:

1	37451	5	0.2	2.44	40	85	<5	>10	<1	8	42	24	1.79	<10	1.74	1235	<1	0.15	12	840	26	55	<20	407	0.11	<10	68	<10	28	58
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Standard:

GEO'97			1.4	1.89	75	165	<5	1.95	<1	18	60	89	3.98	<10	1.00	571	<1	0.03	25	650	24	5	<20	82	0.14	<10	81	<10	10	65
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d/627A  
XLS/97Teck  
fax: 372-1285

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

250 372 1285

TECK EXPLORATION-KAMLOOPS

02/05/98 14:53



ASSAYING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700  
Fax (250) 573-4557

**CERTIFICATE OF ASSAY AK 97-626 & 629**

TECK EXPLORATION LTD.  
#350-272 VICTORIA STREET  
KAMLOOPS, B.C.  
V2C 2A2

15-Jul-97

ATTENTION: JEAN PAUTLER  
Sample Type: ROCK  
PROJECT #: 1389-8  
SHIPMENT #: 1  
Samples submitted by: JEAN PAUTLER

*Pyke*

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	As (%)	Cd (%)	Cu (%)	Pb (%)	Zn (%)
626-1	37401	1.29	0.038	60.6	1.8	17.80				
626-2	37402			128.2	3.7	1.85		3.58		
626-3	37403			367.2	10.7	5.63		1.42	2.04	5.23
626-5	37405			60.4	1.8	2.90				
626-6	37406			30.3	0.9					
626-7	37407			94.2	2.7					
626-10	37410			63.2	1.8	6.10		1.51		
626-11	37411			617.2	18.0					2.38
626-12	37412			394.2	11.5			1.58	2.61	4.78
<i>Primo</i> 626-13	37413			40.6	1.2					

<i>Pyke</i> 629-8	37469			40.6	1.18				1.83	1.44
629-9	37470					5.98				
<i>Primo SE</i> 629-10	37471	<i>1.5m chip</i>								2.06
<i>Primo W</i> 629-11	37472	<i>boulders from upstream</i>								<u>8.63</u>
<i>Primo W</i> 629-12	37473	<i>boulders</i>		68.3	1.99		0.12	<u>2.82</u>	<u>8.89</u>	
<i>Pike E</i> 629-18	37479			<u>422.7</u>	12.33	1.31		<u>5.56</u>	<u>7.24</u>	<u>3.51</u>
629-19	37480			140.2	4.09				<u>2.48</u>	2.38
629-21	37482			118.4	3.45	8.36			1.18	
<i>Get Rky</i> 629-23	37485			<u>606.8</u>	17.70				<u>9.63</u>	<u>3.94</u>

*Retk - looks like you've won 2 bottles of rum!*

*[Signature]*  
Eco-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

ASSAYING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700  
Fax (250) 573-4557



**Eco-Tech**  
LABORATORIES LTD.

**CERTIFICATE OF ASSAY AK 97-627**

18-Jul-97

TECK EXPLORATION LTD.  
#350-272 VICTORIA STREET  
KAMLOOPS, B.C.  
V2C 2A2

ATTENTION: J. Pautler

No. of samples: 3  
Sample Type: Rock  
PROJECT #: 1389-8  
SHIPMENT #: 1  
Samples submitted by: J. Pautler

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	As (%)	Pb (%)
2	37452	-	-	-	1.14
4	37455	51.3	1.50	7.16	-
5	37456	31.6	0.92	-	-
9	37460	61.6	1.80	-	-

**QC DATA:**

**Standard:**

Mpl	70.0	2.04	-	4.33
Cd-1	-	-	0.66	-

  
\_\_\_\_\_  
ECO-TECH LABORATORIES LTD.

Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

XLS/97Teck  
fax: @ 372-1285

### Rock Sample Description Sheet

Sample No	Traverse	Zone	Sample type	Width (m)	Sample Desc.	Fm.	Lithology	Modifier	Colour	Carb. Presence	Silicification	Argillic Alt.	Potassic Alt.	Phyllic Alt.	Limonite	Mineral #1	Amount %	Mineral #2	Amount %	Other Mineral	Amount %	Date	Sampler	Comments
M517934R	PK	9c		1.5	Oc		SLT	Sr	tan		S3	A1				P	5	Gn	2	As	5	28/7/97	GDM	Contact skarn? 15% mineralization
M517938R	PK	9c		0.5	Oc		Qtz	vein	gry		S2					As	50					28/7/97	GDM	Qtz-arseno vein
M517939R	PK	9c		1	Oc		LAQM	Mass	gry		S2				wk	P	5	As	1			28/7/97	GDM	Wall rock to M517938R
M517931R	PK	9c			Oc	OSDr	SST	Brec	brn		S3	A3			str	P	1	Cp	<1			28/7/97	CS	SST along Kqm cont. frac cont P, C
M517932R	PK	9c			Tr	OSDr	CH	Brec	lgy		S3	A1			str	Cp	2	P	<1			28/7/97	CS	C11 + SST? frac cont sulphides
M517933R	PK	9c		1	Oc	OSDr	SST	Frac	blk		S2				str	Po	6	Ga	3	P	3	28/7/97	CS	Locally massive Py + Ga
M517935R	PK	9c			Tr	Kqm	Vn	Gouge	grn		S1	A4				As	10					28/7/97	CS	Arseno - scorodite vein gouge
M517936R	PK	9c			Tr	Kqm	QBM	Frac	lgy		S3	A2				As	25	Cp	1	Ga	<1	28/7/97	CS	Sheeted fracture cont. sulphides
M517937R	PK	9c			Tr	Kqm	QBM	Frac	buff	C1	S3	A2			tr	As	4	Cp	2	P	3	28/7/97	CS	Fracture cont. sulphides
M517940R	PK	9c		1	Oc	Kqm	QBM	Ful	tan		S1	A2			wk							28/7/97	CS	Fract. cont. argillic alt; Central Sho
M517941R	PK	9c			Tr	OMe	SH	Frac	blk	C3	S3				wk	Po	6	Ga	5	P	2	28/7/97	CS	Fracture cont sulphides, trench "pu
M517942R	PK	9c			Oc	OMe	GW	Frac	dgy	C1	S2				mod	Po	1	Py	2			28/7/97	CS	Fract cont. Po; Py fract cont + diss
M515470R	PK	9c		2	tr	Kqm	QBM	Jled	lgy		S2				mod	As	3	Po	3	Cp	tr	16/7/97	CS	Jl cont As vns crosscutting dyke
M515471R	PK	9c		1	lr	Kqm	QBM	Jled	lgy		S2				mod	As	2	Po	3	Cp	<1	16/7/97	CS	Near M515470R; similar fabric
M515472R	PK	9c			lr	Kqm	Vn	Band	dgy						mod	As	50	Po	3	Cp		16/7/97	CS	High grade of trench material M51547
M519368R	PKB	9c			Oc	OSDr	SS	Horn	gry	C1	S1					Po	1							
M519369R	PKB	9c		0.3	Oc	OSDr	SLT	Frac	gry		S1					P	3							



# Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers

212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-864-0221 FAX: 604-864-0218

Project: VICEROY INTERNATIONAL EXPLORATION

BAG 5040  
DAWSON CITY, YT  
Y0B 1G0

Project: 4340 03 5333  
Comments: ATTN: RICK DIMENTAL, JAMRICH

Page: 1 of 4-A  
Total Pages: 5  
Certificate Date: 19-AUG-97  
Invoice No.: 19736081  
P.O. Number:  
Account: OON

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9736081

SAMPLE	PREF CODE	As ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
MS17915H	205 226	705	34.8	0.12	>10000	10	< 0.5	126	0.03	5.5	1	< 1	633	12.80	< 10	40	0.07	< 10	0.01	20
MS17916H	205 226	140	>100.0	0.13	>10000	20	< 0.5	686	< 0.01	>100.0	24	37	2320	10.10	< 10	140	0.12	< 10	0.01	30
MS17917H	205 226	30	57.6	0.16	5790	50	< 0.5	62	0.21	52.0	< 1	89	1690	1.52	< 10	20	0.15	10	0.03	25
MS17918H	205 226	500	62.8	0.24	>10000	20	< 0.5	724	0.03	11.0	239	16	3820	12.65	< 10	30	0.11	< 10	0.05	10
MS17919H	205 226	5	23.8	1.41	596	170	< 0.5	16	0.51	1.0	5	65	644	2.90	< 10	10	0.28	10	0.49	75
MS17940H	205 226	< 5	3.4	0.41	1220	60	< 0.5	2	0.03	3.5	1	106	54	1.18	< 10	< 10	0.22	10	0.05	40
MS17941H	205 226	10	>100.0	1.97	1925	30	0.5	< 2	2.44	>100.0	6	44	776	8.80	< 10	60	0.13	10	1.48	2710
MS17942H	205 226	< 5	0.4	2.75	62	150	< 0.5	< 2	1.01	1.0	19	130	42	3.38	< 10	< 10	0.68	10	1.07	195
MS17931H	205 226	< 5	52.4	0.68	2900	80	< 0.5	50	0.45	4.5	1	83	1575	7.38	10	60	0.13	< 10	0.82	135
MS17932H	205 226	20	86.6	0.62	84	50	0.5	Incl	0.77	17.0	3	55	>10000	5.25	< 10	70	0.07	10	0.67	295
MS17933H	205 226	< 5	15.6	3.32	352	30	0.5	18	0.96	>100.0	13	63	200	7.86	< 10	20	0.85	10	2.43	575
MS17934H	205 226	50	>100.0	0.58	>10000	50	< 0.5	170	0.17	14.0	5	38	2590	7.12	< 10	60	0.31	< 10	0.22	25

11 2.2 5.0



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Analytical Chemists - Geochemists - Registered Assayers

212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

BY: VICEROY INTERNATIONAL EXPLORATION

BAG040  
 DAWSON CITY, YT  
 Y0B G0

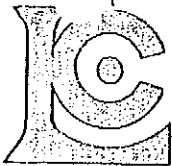
Project: 4340 03 5333  
 Comments: ATTN: RICK DIMENTAL JAMRICH

Page: 297 : 4-B  
 Total Pages: 5  
 Certificate Date: 19-AUG-97  
 Invoice No.: 19736081  
 P.O. Number:  
 Account: OGN

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS A9736081

SAMPLE	PREP CODE		Mo	Mn	Ni	P	Pb	Sb	Sc	Br	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MS17935R	205	226	< 1	< 0.01	< 1	130	726	584	< 1	4 < 0.01	< 10	< 10	4	< 10	260
MS17936R	205	226	< 1	< 0.01	< 1	80	>10000	4760	< 1	8 < 0.01	< 10	< 10	3	< 10	>10000
MS17937R	205	226	< 1	< 0.01	1	250	2420	288	< 1	9 < 0.01	< 10	< 10	2	< 10	3030
MS17938R	205	226	< 1	< 0.01	1	250	1250	192	1	8 < 0.01	< 10	< 10	6	< 10	370
MS17939R	205	226	< 1	0.08	3	440	210	14	5	38 0.01	< 10	< 10	25	< 10	82
MS17940R	205	226	1	0.01	2	160	384	20	< 1	8 < 0.01	< 10	< 10	4	< 10	358
MS17941R	205	226	< 1	0.06	13	240	>10000	48	3	58 0.01	< 10	< 10	78	< 10	>10000
MS17942R	205	226	4	0.23	33	1720	30	< 1	7	135 0.01	< 10	< 10	121	< 10	82
MS17931R	205	226	8	0.05	9	540	1590	26	3	25 0.01	< 10	< 10	67	< 10	530
MS17932R	205	226	14	0.08	10	Intf*	36	< 1	1	13 0.01	< 10	< 10	105	< 10	970
MS17933R	205	226	9	0.81	42	930	950	18	3	94 0.01	< 10	< 10	130	< 10	>10000
MS17934R	205	226	6	0.11	5	320	6790	52	2	31 0.01	< 10	< 10	31	< 10	878



# Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers  
212 Brooksbank Ave., North Vancouver  
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VICEFY INTERNATIONAL EXPLORATION

BAG 50  
DAWSON CITY, YT  
Y0B 1C

Project : 340 03 5333  
Comments : TTN:RICK DIMENT/L. JAMRICH

Page No. : 1  
Total Pages : 1  
Certificate Date: 25-AUG-97  
Invoice No. : 19738491  
P.O. Number :  
Account : OQN

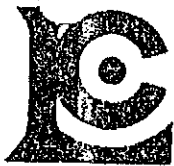
## CRTIFICATE OF ANALYSIS

A9738491

SAMPLE	PREP CODE	Ag FA g/t	Cu %	Pb %	Zn %						
<i>Pike</i> NS17932R	244 --	-----	1.80	-----	-----						
NS17933R	244 --	-----	-----	-----	1.13						
NS17934R	244 --	114	-----	-----	-----						
NS17936R	244 --	205	-----	2.17	1.64						
NS17941R	244 --	92	-----	2.44	1.81						

CERTIFICATION:

*Sard*  
*CE/NA*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040  
DAWSON CITY, YT  
Y0B 1G0

Project: 4340-03-5333  
Comments: ATTN: RICK DIMENTAL, JAMRICK

Page Number: 1-A  
Total Pages: 2  
Certificate Date: 03-OCT-97  
Invoice No.: 19744536  
P.O. Number:  
Account: OQN

## CERTIFICATE OF ANALYSIS A9744536

SAMPLE	PREP CODE		Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	ppb	MOBH	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%	ppm
MS189367R	255	295	25	3.8	0.48	704	20	2.0	2	0.13	< 0.5	1	121	9	1.61	< 10	< 10	0.26	10	0.04	7310
MS189368R	255	295	< 5	2.0	0.75	102	20	1.5	< 2	0.13	< 0.5	1	129	4	1.25	< 10	< 10	0.34	20	0.09	600
MS189369R	255	295	30	2.2	0.57	642	30	1.0	< 2	0.05	< 0.5	1	233	7	1.35	< 10	< 10	0.34	10	0.04	315
MS189370R	255	295	20	1.8	0.46	648	30	0.5	< 2	0.04	< 0.5	< 1	156	5	1.12	< 10	< 10	0.34	10	0.03	130
MS15451R	255	295	15	2.8	0.41	688	20	0.5	< 2	0.03	< 0.5	< 1	144	10	0.72	< 10	< 10	0.30	10	0.02	95
MS15452R	255	295	10	14.8	0.53	210	30	1.0	< 2	0.07	< 0.5	< 1	155	4	1.70	< 10	< 10	0.40	10	0.01	380
MS15453R	255	295	5	5.4	0.50	298	10	1.5	< 2	0.33	0.5	1	128	5	1.61	< 10	< 10	0.31	10	0.04	>10000
MS15454R	255	295	510	41.8	0.44	>10000	< 10	1.5	< 2	0.05	2.5	6	118	16	3.62	< 10	< 10	0.23	< 10	0.03	7520
MS15455R	255	295	15	1.6	0.51	222	40	0.5	< 2	0.02	< 0.5	< 1	163	< 1	0.84	< 10	< 10	0.37	10	0.02	100
MS15456R	255	295	< 5	2.6	0.52	182	50	0.5	< 2	0.03	< 0.5	< 1	128	2	1.78	< 10	< 10	0.41	10	0.01	150
MS15457R	255	295	40	4.8	0.52	536	40	1.0	< 2	0.07	< 0.5	< 1	149	9	1.47	< 10	10	0.35	10	0.03	5610
MS15458R	255	295	380	3.8	0.22	>10000	< 10	1.5	2	1.03	1.0	2	165	8	2.80	< 10	< 10	0.13	< 10	0.08	>10000
MS15459R	255	295	80	96.2	0.45	854	20	1.0	16	0.02	< 0.5	< 1	160	151	1.45	< 10	< 10	0.32	20	0.02	365
MS15460R	255	295	865	>100.0	0.23	8030	30	< 0.5	< 2	0.08	2.0	2	223	35	1.62	< 10	10	0.13	< 10	0.01	8260
MS15461R	255	295	5	8.0	0.44	1030	30	0.5	< 2	0.01	< 0.5	< 1	161	15	2.74	< 10	100	0.26	10	0.01	315
MS15462R	255	295	2360	>100.0	0.50	>10000	30	0.5	< 2	0.01	< 0.5	< 1	154	131	2.92	< 10	110	0.29	10	0.01	245
MS15463R	255	295	580	6.0	0.35	>10000	50	< 0.5	< 2	< 0.01	< 0.5	< 1	147	31	3.31	< 10	10	0.20	< 10	0.01	95
MS15464R	255	295	55	21.8	0.47	3990	50	< 0.5	< 2	0.01	< 0.5	1	172	27	1.48	< 10	130	0.27	10	0.04	155
MS15465R	255	295	275	25.8	0.29	9680	80	< 0.5	< 2	0.01	< 0.5	< 1	150	19	1.76	< 10	40	0.25	< 10	0.01	60
MS15466R	255	295	2720	95.6	0.10	>10000	30	< 0.5	< 2	0.01	19.5	< 1	110	325	6.30	< 10	10	0.09	< 10	< 0.01	1965
MS15467R	255	295	< 5	10.8	0.30	114	110	< 0.5	2	< 0.01	< 0.5	< 1	233	3	0.60	< 10	< 10	0.22	10	0.01	70
MS15468R	255	295	50	14.2	0.44	1440	70	0.5	< 2	0.01	< 0.5	< 1	106	5	1.41	< 10	80	0.24	10	0.01	80
MS15469R	255	295	30	>100.0	0.38	2460	20	0.5	< 2	0.01	< 0.5	< 1	112	11	1.83	< 10	70	0.22	10	0.01	115
MS15470R	255	295	80	3.8	1.23	>10000	110	0.5	50	0.62	< 0.5	8	81	57	4.27	< 10	< 10	0.36	20	0.38	60
MS15471R	255	295	< 5	2.2	1.44	7020	40	< 0.5	< 2	0.53	0.5	7	97	279	2.94	< 10	< 10	0.28	10	0.62	70
MS15472R	255	295	865	34.0	0.07	>10000	< 10	< 0.5	426	< 0.01	>100.0	23	3	2400	>15.00	< 10	10	0.06	< 10	< 0.01	10
MS15473R	255	295	730	3.4	0.31	>10000	20	< 0.5	< 2	0.01	< 0.5	< 1	147	28	2.25	< 10	< 10	0.29	< 10	0.01	110
MS15474R	255	295	520	11.0	0.38	>10000	30	< 0.5	< 2	0.02	1.0	< 1	133	33	3.08	< 10	60	0.31	10	0.02	80
MS15475R	255	295	85	21.8	0.46	4190	10	< 0.5	< 2	0.01	< 0.5	< 1	177	9	1.15	< 10	60	0.33	10	0.01	195
MS15476R	255	295	305	3.0	0.48	740	20	< 0.5	< 2	< 0.01	< 0.5	< 1	153	33	1.57	< 10	10	0.24	10	0.01	25
MS15477R	255	295	115	7.6	0.30	1495	10	< 0.5	2	< 0.01	2.0	< 1	205	69	0.89	< 10	210	0.17	< 10	0.01	45
MS15478R	255	295	< 5	2.0	0.42	58	40	0.5	2	< 0.01	1.0	< 1	134	19	1.08	< 10	10	0.37	10	< 0.01	40
MS15479R	255	295	< 5	5.4	0.29	128	10	< 0.5	10	0.01	< 0.5	< 1	175	61	0.82	< 10	< 10	0.21	10	0.01	35
MS15480R	255	295	60	1.8	0.41	2020	30	< 0.5	2	< 0.01	< 0.5	< 1	141	30	1.00	< 10	< 10	0.29	10	0.01	35
MS15481R	255	295	6660	2.4	0.16	>10000	20	< 0.5	< 2	< 0.01	3.0	1	145	73	4.98	< 10	100	0.15	< 10	< 0.01	140
MS15482R	255	295	5	8.0	0.63	72	40	0.5	12	< 0.01	< 0.5	< 1	165	26	0.99	< 10	< 10	0.38	30	0.01	45
MS15483R	255	295	< 5	1.6	0.47	54	40	< 0.5	2	< 0.01	< 0.5	< 1	173	3	0.79	< 10	< 10	0.36	20	0.01	40
MS19368R	255	295	15	< 0.2	2.05	152	180	< 0.5	< 2	0.43	< 0.5	9	198	11	3.23	< 10	< 10	0.40	< 10	1.37	115
MS19369R	255	295	< 5	0.2	3.04	16	160	0.5	< 2	0.78	< 0.5	10	90	42	3.45	< 10	< 10	0.69	< 10	1.35	220

IKC  
↑  
RV  
↓



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-004-0221 FAX: 604-984-0218

To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040  
 DAWSON CITY, YT  
 Y0B 1G0

Project: 4340-03-5333  
 Comments: ATTN: RICK DIMENTL, JAMRICK

Page Number : 1-B  
 Total Pages : 2  
 Certificate Date: 03-OCT-97  
 Invoice No. : 19744536  
 P.O. Number :  
 Account : OCN

## CERTIFICATE OF ANALYSIS A9744536

SAMPLE	PREP CODE		Ko	Ka	Ni	P	Pb	Sb	Sc	Sr	Tl	Tl	U	V	M	Zn	
	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
MS189367R	255	295	< 1	0.01	3	430	84	14	1	9	< 0.01	< 10	< 10	3	< 10	160	
MS189368R	255	295	< 1	0.01	2	540	30	2	1	11	< 0.01	< 10	< 10	6	< 10	102	
MS189369R	255	295	< 1	< 0.01	3	510	22	12	< 1	6	< 0.01	< 10	< 10	4	< 10	26	
MS189370R	255	295	< 1	< 0.01	2	460	22	8	< 1	5	< 0.01	< 10	< 10	3	< 10	14	
MS15451R	255	295	< 1	< 0.01	1	650	14	8	< 1	2	< 0.01	< 10	< 10	1	< 10	8	
MS15452R	255	295	< 1	0.01	1	530	160	24	< 1	8	< 0.01	< 10	< 10	2	< 10	68	
MS15453R	255	295	< 1	0.02	4	390	106	10	< 1	5	< 0.01	< 10	< 10	3	< 10	324	
MS15454R	255	295	< 1	0.06	4	120	866	172	< 1	11	< 0.01	< 10	< 10	1	< 10	920	
MS15455R	255	295	< 1	< 0.01	1	320	34	6	< 1	7	< 0.01	< 10	< 10	1	< 10	8	
MS15456R	255	295	< 1	0.01	1	490	72	6	< 1	7	< 0.01	< 10	< 10	2	< 10	46	
MS15457R	255	295	< 1	0.01	2	220	128	10	< 1	12	< 0.01	< 10	< 10	1	< 10	114	
MS15458R	255	295	< 1	0.04	6	140	50	88	< 1	7	< 0.01	< 10	< 10	20	1	< 10	696
MS15459R	255	295	21	0.01	2	410	1410	54	< 1	9	< 0.01	< 10	< 10	1	< 10	104	
MS15460R	255	295	1	0.18	4	100	1710	390	< 1	4	< 0.01	< 10	< 10	1	< 10	3140	
MS15461R	255	295	< 1	0.01	2	310	880	18	< 1	7	< 0.01	< 10	< 10	1	< 10	260	
MS15462R	255	295	< 1	0.01	1	460	1795	130	< 1	10	< 0.01	< 10	10	1	< 10	144	
MS15463R	255	295	< 1	< 0.01	1	180	428	128	< 1	5	< 0.01	< 10	< 10	1	< 10	56	
MS15464R	255	295	< 1	0.01	3	140	2640	28	< 1	6	< 0.01	< 10	< 10	3	< 10	142	
MS15465R	255	295	< 1	0.01	2	270	2170	72	< 1	8	< 0.01	< 10	< 10	1	< 10	92	
MS15466R	255	295	< 1	0.49	1	80	2740	360	< 1	3	< 0.01	< 10	< 10	< 1	< 10	8700	
MS15467R	255	295	3	< 0.01	3	120	94	< 2	< 1	7	< 0.01	< 10	< 10	3	< 10	20	
MS15468R	255	295	< 1	0.01	1	140	652	18	< 1	73	< 0.01	< 10	< 10	2	< 10	98	
MS15469R	255	295	< 1	0.02	1	140	2440	44	< 1	48	< 0.01	< 10	< 10	2	< 10	238	
MS15470R	255	295	1	0.09	3	420	44	30	5	36	0.03	< 10	< 10	16	< 10	30	
MS15471R	255	295	1	0.08	4	410	22	4	6	28	0.08	< 10	< 10	28	< 10	170	
MS15472R	255	295	< 1	< 0.01	< 1	70	266	298	< 1	4	< 0.01	< 10	10	< 1	< 10	220	
MS15473R	255	295	< 1	< 0.01	1	250	586	98	< 1	4	< 0.01	< 10	< 10	1	< 10	42	
MS15474R	255	295	< 1	0.01	1	170	2810	134	< 1	8	< 0.01	< 10	< 10	1	< 10	208	
MS15475R	255	295	2	< 0.01	2	170	1925	24	< 1	20	< 0.01	< 10	< 10	1	< 10	80	
MS15476R	255	295	< 1	0.01	2	200	812	24	< 1	22	< 0.01	< 10	< 10	5	50	104	
MS15477R	255	295	< 1	0.04	3	60	1090	98	< 1	10	< 0.01	< 10	< 10	1	30	558	
MS15478R	255	295	1	0.01	1	140	1140	6	1	6	< 0.01	< 10	< 10	< 1	< 10	104	
MS15479R	255	295	1	0.01	3	230	630	< 2	< 1	6	< 0.01	< 10	< 10	1	< 10	116	
MS15480R	255	295	< 1	< 0.01	2	230	536	6	< 1	7	< 0.01	< 10	< 10	1	< 10	52	
MS15481R	255	295	< 1	0.01	1	290	194	604	1	3	< 0.01	< 10	30	1	< 10	206	
MS15482R	255	295	1	0.01	1	310	2550	6	1	8	< 0.01	< 10	< 10	3	< 10	74	
MS15483R	255	295	< 1	< 0.01	1	220	316	2	< 1	7	< 0.01	< 10	< 10	1	< 10	26	
MS19368R	255	295	1	0.01	18	780	6	2	4	23	0.06	< 10	< 10	60	< 10	54	
MS19369R	255	295	1	0.16	24	540	12	< 2	5	117	0.12	< 10	< 10	59	< 10	118	





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 212 Brooksbank Ave., North Vancouver  
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To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040  
 DAWSON CITY, YT  
 Y0B 1G0

Project: 4340-03-5333  
 Comments: ATTN: RICK DIMENT / L. JAMRICH

Page Number : 1-A  
 Total Pages : 1  
 Certificate Date: 03-OCT-97  
 Invoice No. : 19744544  
 P.O. Number :  
 Account : OON

## CERTIFICATE OF ANALYSIS A9744544

SAMPLE	PREP CODE	As ppb FA/AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Hg %	Mn ppm
MS187937	201 202	< 5	< 0.2	1.27	28	340	0.5	< 2	0.87	1.5	11	18	25	1.39	< 10	80	0.14	10	0.66	2760



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## CERTIFICATE OF ANALYSIS A9744544

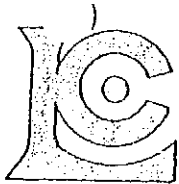
SAMPLE	PREP CODE	Mo ppm	Na %	Mi ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
MS187937	201 202	< 1	< 0.01	25	1500	8	2	3	66	< 0.01	< 10	< 10	40	< 10	110

# Soil Sample Description Sheet

Sample No.	Zone	Horizon	Depth (cm)	Slope Angle	Colour	Permafrost	% Coarse Frags.	Vegetation	Surficial Geol.	Frag. Lithology	% Organics	Date	Sampler	Comments
PKA 0000		B	20	ht	lbrn		0	cf			0		SE	
PKA 0100		B	20	sl	lbrn		10	cf	till		0		SE	
PKA 0200		B	40	sl	lbrn		0	cf	till		0		SE	
PKA 0300		AC	40	st	dbrn		30	cf	till		70		SE	
PKA 0400		A	50	st	dbrn		0	cf	tf	SLT	60		SE	
PKA 0500		B	50	mod	dgy		0	cf			30		SE	
PKA 0600		A	50	mod	dgy		0	cf			80		SE	
PKA 0700		A	50	mod	dgy		0	cf			70		SE	
PKA 0800		AB	50	mod	dgy		0	cf			60		SE	
PKA 0900		AB	70	mod	dgy		10	cf	til		50		SE	
PKA 1000		AB	50	mod	dgy		0	cf			50		SE	
PKA 1100		B	20	mod	buf		10	cf	til		10		SE	
PKA 1200		NS											SE	
PKA 1300		B	20	sl	buf		0	bb			20		SE	
PKA 1400		B	30	val	gry		0	bb			20		SE	
PKA 1500		B	20	mod	lgry		0	cf			30		SE	
PKA 1600		B	30	mod	lgry		0	cf			30		SE	
PKA 1650		B	20	mod	lgry		0	cf			10		SE	
PKA 1700		B	20	mod	lgry		10	cf	tf	SLT	10		SE	
PKA 1750		B	20	mod	lgry		0	cf			20		SE	
PKA 1800		B	20	mod	brn		10	cf	til		10		SE	
PKA 1850		B	20	mod	brn		10	cf	til		10		SE	
PKA 1900		B	30	ht	lgy		0	cf			10		SE	
PKA 1950		B	30	ht	org		0	cf			10		SE	
PKA 2000		B	0	mod	org		0	cf			20		SE	
PKA 2050		B	20	mod	org		0	cf			20		SE	
PKA 2100		B	20	mod	gry		0	cf			20		SE	
PKA 2150		B	30	mod	gry		0	cf			10		SE	
PKA 2200		B	40	mod	gry		0	cf			0		SE	
PKA 2250		NS		mod									SE	
PKA 2300		NS		mod									SE	
PKA 2350		B	40	mod	gry		0	bb			30		SE	
PKA 2400		B	40	mod	gry		0	bb			20		SE	
PKA 2450		B	40	mod	brn		0	bb			10		SE	
PKA 2500		B	40	mod	brn		0	bb			20		SE	
PKA 2550		A	60	mod	blk		0	bb			100		SE	
PKA 2600		A	50	mod	blk		0	bb			80		SE	
PKA 2650		A	50	mod	blk		0	bb			80		SE	
PKA 2700		B	50	sl	gry		20	bb	til		20		SE	
PKA 2800		A	40	sl	dbrn		0	bb			0		SE	
PKB 0000		B	35	GEN	TAN			CF	COLL		10	16/09/9	MR	
PKB 0100		AB	35	GEN	MGY		10	CF	COLL	SLT	30	16/09/9	MR	
PKB 0200		B	35	FL	BL			CF	COLL		20	16/09/9	MR	
PKB 0300		B	45	FL	BL			CF	COLL		5	16/09/1	MR	

# Soil Sample Description Sheet

PKB 0400	B	30	FL	MGY		20	CF	COLL	SLT	10	16/09/1	MR
PKB 0500	B	40	GEN	MGY		10	CF	COLL	SLT	10	16/09/1	MR
PKB 0600	B	40	GEN	MGY		30	CF	COLL	SLT		16/09/1	MR
PKB 0700	B	40	GEN	TAN			CF	COLL			16/09/1	MR
PKB 0800	B	35	GEN	BL			CF	COLL		10	16/09/1	MR
PKB 0900	B	45	GEN	BL		20	CF	COLL	SLT	30	16/09/1	MR
PKB 1000	B	25	MOD	BUFF		30	CF	COLL	SLT	40	16/09/1	MR
PKB 1100	B	30	MOD	TAN		50	CF	COLL	SLT	10	16/09/1	MR
PKB 1200	B	30	MOD	TAN		30	CF	COLL	SLT	15	16/09/1	MR
PKB 1300	B	40	MOD	TAN		5	CF	COLL	SLT	20	16/09/1	MR
PKB 1400	B	25	FL	TAN		30	CF	COLL	SLT	10	16/09/1	MR
PKB 1450	B	30	MOD	TAN			CF	COLL			16/09/1	MR
PKB 1500	B	35	MOD	TAN			CF	COLL		20	16/09/1	MR
PKB 1550			MOD				CF	COLL			16/09/1	MR
PKB 1600	AB	40	MOD	BL			CF	COLL		30	16/09/1	MR
PKB 1650	B	40	MOD	TAN			CF	COLL		30	16/09/1	MR
PKB 1700			FL/HT				CF	COLL			16/09/1	MR
PKB 1750	AB	40	GEN	TAN			CF	COLL		10	16/09/1	MR



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BAG 5040  
 DAWSON CITY, YT  
 Y0B 1G0

Project: 4340-03-5333  
 Comments: ATTN:RICK DIMENT/L. JAMRICH

Page Number: 1-A  
 Total Pages: 3  
 Certificate Date: 04-02-1997  
 Invoice No.: 197453  
 P.O. Number:  
 Account: OQN

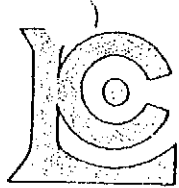
## CERTIFICATE OF ANALYSIS A9744531

SOIL SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	In ppm
PKA0600	201 202	< 5	< 0.2	1.43	4	210	< 0.5	< 2	0.02	< 0.5	3	16	17	1.50	< 10	10	0.12	10	0.15	1.5
PKA0100	201 202	< 5	< 0.2	1.34	2	230	< 0.5	< 2	0.03	< 0.5	5	21	20	2.31	< 10	20	0.15	10	0.32	2.5
PKA0200	201 202	< 5	< 0.2	0.93	8	150	< 0.5	< 2	0.06	0.5	8	14	15	2.47	< 10	10	0.10	10	0.19	7.0
PKA0300	201 202	< 5	< 0.2	1.15	4	200	0.5	< 2	0.79	2.5	11	13	62	2.95	< 10	20	0.11	20	0.27	6.5
PKA0400	201 202	< 5	< 0.2	1.20	2	180	0.5	< 2	1.78	0.5	8	15	40	2.08	< 10	40	0.12	10	0.66	2.5
PKA0500	201 202	< 5	< 0.2	0.90	6	90	< 0.5	< 2	0.10	0.5	5	11	11	2.12	< 10	< 10	0.04	10	0.51	1.5
PKA0600	201 202	< 5	< 0.4	0.97	20	60	< 0.5	< 2	1.23	2.0	7	4	27	0.95	< 10	60	0.03	< 10	0.12	5.0
PKA0700	201 202	< 5	< 1.2	1.36	20	160	< 0.5	< 2	2.17	2.0	4	11	43	1.25	< 10	140	0.08	10	0.28	5.5
PKA0800	201 202	< 5	< 0.2	0.68	12	60	< 0.5	< 2	0.06	1.0	7	13	14	3.69	< 10	< 10	0.04	20	0.05	2.0
PKA0900	201 202	< 5	< 0.2	0.48	< 2	50	< 0.5	< 2	0.05	< 0.5	1	5	14	0.66	< 10	10	0.05	< 10	0.07	1.0
PKA1000	201 202	< 5	< 0.8	1.13	< 2	190	0.5	< 2	2.19	1.5	5	9	151	1.69	< 10	110	0.07	10	0.31	2.0
PKA1100	201 202	< 5	< 0.2	1.47	10	260	< 0.5	< 2	0.15	< 0.5	5	20	29	2.48	< 10	20	0.15	20	0.51	1.5
PKA1300	201 202	< 5	< 0.2	1.27	2	260	< 0.5	< 2	1.21	0.5	5	14	34	1.45	< 10	100	0.13	10	0.39	1.5
PKA1400	201 202	< 5	< 0.2	1.23	4	220	< 0.5	< 2	0.47	1.0	4	14	21	1.60	< 10	60	0.12	10	0.35	1.0
PKA1450	201 202	< 5	< 0.2	1.36	< 2	240	< 0.5	< 2	0.07	0.5	5	22	8	2.59	< 10	< 10	0.14	10	0.45	1.0
PKA1500	201 202	< 5	< 0.2	1.38	18	280	0.5	< 2	0.29	0.5	8	19	28	2.26	< 10	50	0.16	10	0.50	8.5
PKA1600	201 202	< 5	< 0.2	0.97	8	280	< 0.5	< 2	0.49	< 0.5	4	10	16	1.33	< 10	60	0.09	< 10	0.28	2.0
PKA1650	201 202	< 5	< 0.2	1.26	36	190	< 0.5	< 2	0.21	0.5	10	18	27	2.89	< 10	20	0.12	20	0.58	4.5
PKA1700	201 202	< 5	< 0.6	1.29	10	600	< 0.5	< 2	0.33	2.5	15	11	27	2.05	< 10	110	0.07	< 10	0.19	88.0
PKA1750	201 202	< 5	< 0.8	1.02	8	210	< 0.5	< 2	0.16	< 0.5	3	14	35	2.08	< 10	150	0.11	10	0.38	2.5
PKA1800	201 202	< 5	< 0.2	1.68	34	350	< 0.5	< 2	0.06	< 0.5	8	27	38	4.38	< 10	10	0.25	20	0.45	8.0
PKA1850	201 202	< 5	< 0.2	1.07	12	200	< 0.5	< 2	0.03	< 0.5	3	15	22	1.62	< 10	30	0.17	10	0.25	1.5
PKA1900	201 202	< 5	< 0.2	0.66	2	130	< 0.5	< 2	0.01	< 0.5	1	6	9	0.64	< 10	10	0.07	20	0.06	1.5
PKA2000	201 202	< 5	< 0.2	1.34	12	190	< 0.5	< 2	0.02	0.5	6	17	12	3.23	< 10	10	0.12	10	0.25	1.0
PKA2050	201 202	< 5	< 0.2	0.39	2	120	< 0.5	< 2	0.06	0.5	1	5	12	0.65	< 10	20	0.06	< 10	0.07	1.5
PKA2100	201 202	< 5	< 0.2	2.37	10	470	0.5	< 2	1.00	< 0.5	11	17	26	3.66	< 10	10	0.17	30	1.16	1.5
PKA2150	201 202	< 5	< 0.2	2.36	8	490	0.5	< 2	1.42	< 0.5	11	25	27	3.24	< 10	10	0.18	10	1.64	3.5
PKA2200	201 202	< 5	< 0.2	1.86	18	280	0.5	< 2	0.94	0.5	10	23	24	2.63	< 10	40	0.21	10	1.12	3.5
PKA2350	201 202	< 5	< 0.2	0.53	< 2	90	< 0.5	< 2	0.27	< 0.5	2	9	10	1.20	< 10	< 10	0.07	10	0.15	1.0
PKA2400	201 202	< 5	< 0.2	1.23	4	230	< 0.5	< 2	0.50	< 0.5	5	10	12	1.42	< 10	10	0.11	10	0.59	1.0
PKA2450	201 202	< 5	< 0.2	1.25	12	200	< 0.5	< 2	0.59	< 0.5	4	14	13	1.72	< 10	< 10	0.09	10	0.27	1.5
PKA2500	201 202	< 5	< 0.2	1.71	< 2	330	0.5	< 2	1.34	0.5	7	19	21	1.97	< 10	10	0.08	10	0.49	3.5
PKA2550	201 202	< 5	< 0.2	0.26	< 2	150	< 0.5	< 2	4.63	0.5	1	2	24	0.25	< 10	70	< 0.01	< 10	0.03	1.0
PKA2600	201 202	< 5	< 0.2	1.37	8	240	< 0.5	< 2	2.59	0.5	8	13	27	1.56	< 10	30	0.10	< 10	0.46	8.0
PKA2650	201 202	< 5	< 0.2	0.47	< 2	130	< 0.5	< 2	1.11	< 0.5	3	4	12	0.63	< 10	30	0.03	< 10	0.09	1.5
PKA2700	201 202	< 5	< 0.2	1.50	12	280	< 0.5	< 2	1.38	0.5	8	23	21	2.14	< 10	40	0.22	10	0.91	4.5
PKA2800	201 202	< 5	< 0.2	1.64	14	290	0.5	< 2	0.63	1.0	9	21	43	2.43	< 10	70	0.18	10	0.78	2.5
PKH0000	201 202	< 5	< 0.2	0.76	< 2	100	< 0.5	< 2	0.05	< 0.5	3	10	5	1.33	< 10	< 10	0.06	10	0.18	1.5
PKB0100	201 202	< 5	< 0.2	0.31	< 2	50	< 0.5	< 2	0.11	< 0.5	< 1	4	7	0.34	< 10	< 10	0.05	< 10	0.04	1.5
PKH0200	201 202	< 5	< 0.6	1.63	8	290	0.5	< 2	1.86	0.5	5	19	76	1.92	< 10	170	0.15	10	0.57	1.5

CERTIFICATION:

*Handwritten signature*

80000



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Page number : 1-B  
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 Invoice No. : 197445  
 P.O. Number :  
 Account : OQN

Project: 4340-03-5333  
 Comments: ATTN: RICK DIMENI/L. JAMRICH

## CERTIFICATE OF ANALYSIS A9744531

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PKA0000	201 202	< 1	0.01	7	780	8	< 2	< 1	9	< 0.01	< 10	< 10	59	< 10	40
PKA0100	201 202	1	< 0.01	10	1050	12	< 2	< 1	9	< 0.01	< 10	< 10	52	< 10	72
PKA0200	201 202	< 1	0.01	9	1390	14	< 2	< 1	13	< 0.01	< 10	< 10	50	< 10	90
PKA0300	201 202	< 1	0.01	29	1350	12	4	1	61	< 0.01	< 10	< 10	32	< 10	74
PKA0400	201 202	< 1	0.01	25	770	8	< 2	2	121	< 0.01	< 10	< 10	24	< 10	50
PKA0500	201 202	1	0.01	9	680	10	2	< 1	14	< 0.01	< 10	< 10	30	< 10	46
PKA0600	201 202	< 1	0.03	13	940	2	< 2	< 1	74	0.01	< 10	< 10	12	< 10	60
PKA0700	201 202	< 1	0.03	20	1500	22	4	1	117	< 0.01	< 10	< 10	21	< 10	132
PKA0800	201 202	2	0.01	17	500	10	2	< 1	9	0.01	< 10	< 10	70	< 10	90
PKA0900	201 202	< 1	0.05	3	560	2	< 2	< 1	8	< 0.01	< 10	< 10	16	< 10	16
PKA1000	201 202	1	0.01	46	960	10	< 2	2	168	< 0.01	< 10	< 10	27	< 10	40
PKA1100	201 202	< 1	0.01	17	660	12	2	1	18	< 0.01	< 10	< 10	53	< 10	78
PKA1300	201 202	< 1	0.02	18	760	6	< 2	2	100	< 0.01	< 10	< 10	34	< 10	78
PKA1400	201 202	< 1	0.03	12	660	6	< 2	1	42	0.01	< 10	< 10	37	< 10	70
PKA1450	201 202	< 1	0.01	7	450	10	2	2	8	0.04	< 10	< 10	81	< 10	58
PKA1500	201 202	< 1	0.03	17	780	14	2	3	26	0.01	< 10	< 10	48	< 10	88
PKA1600	201 202	< 1	0.04	11	570	8	< 2	1	33	< 0.01	< 10	< 10	28	< 10	48
PKA1650	201 202	< 1	< 0.01	20	850	28	< 2	2	27	< 0.01	< 10	< 10	44	< 10	96
PKA1700	201 202	4	0.03	51	950	8	< 2	1	27	0.01	< 10	< 10	31	< 10	118
PKA1750	201 202	3	0.01	11	1390	14	< 2	1	32	< 0.01	< 10	< 10	34	< 10	50
PKA1800	201 202	4	0.01	15	1430	10	< 2	2	40	0.01	< 10	< 10	91	< 10	88
PKA1850	201 202	1	0.03	8	460	14	< 2	1	17	0.01	< 10	< 10	48	< 10	30
PKA1900	201 202	1	0.02	2	210	6	< 2	< 1	8	0.01	< 10	< 10	31	< 10	12
PKA2000	201 202	< 1	< 0.01	10	440	10	4	1	13	0.04	< 10	< 10	74	< 10	46
PKA2050	201 202	< 1	0.04	3	370	4	< 2	< 1	18	< 0.01	< 10	< 10	10	< 10	10
PKA2100	201 202	1	0.01	17	1050	16	< 2	4	65	0.01	< 10	< 10	35	< 10	82
PKA2150	201 202	< 1	0.03	18	510	18	2	4	95	0.04	< 10	< 10	70	< 10	70
PKA2200	201 202	< 1	< 0.01	22	460	12	< 2	3	59	0.05	< 10	< 10	60	< 10	68
PKA2350	201 202	< 1	0.01	5	150	2	< 2	< 1	25	0.02	< 10	< 10	36	< 10	24
PKA2400	201 202	< 1	< 0.01	9	160	8	< 2	1	32	0.02	< 10	< 10	35	< 10	30
PKA2450	201 202	< 1	0.01	7	220	12	< 2	1	34	< 0.01	< 10	< 10	45	< 10	32
PKA2500	201 202	< 1	< 0.01	12	460	12	< 2	2	62	0.01	< 10	< 10	32	< 10	56
PKA2550	201 202	< 1	< 0.01	6	500	< 2	< 2	< 1	163	< 0.01	< 10	< 10	2	< 10	2
PKA2600	201 202	< 1	0.02	18	890	10	4	1	142	0.02	< 10	< 10	29	< 10	52
PKA2650	201 202	< 1	0.05	5	480	< 2	< 2	< 1	61	0.01	< 10	< 10	12	< 10	8
PKA2700	201 202	4	0.01	14	940	10	< 2	3	83	0.01	< 10	< 10	54	< 10	80
PKA2800	201 202	< 1	0.02	25	600	12	< 2	3	45	0.01	< 10	< 10	48	< 10	98
PKB0000	201 202	< 1	0.02	7	250	6	< 2	< 1	7	< 0.01	< 10	< 10	41	< 10	34
PKB0100	201 202	< 1	0.04	2	210	4	< 2	< 1	10	< 0.01	< 10	< 10	12	< 10	12
PKB0200	201 202	< 1	0.01	25	1310	6	< 2	3	127	< 0.01	< 10	< 10	41	< 10	122

CERTIFICATION:

*[Signature]*

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



# Chemex Labs Ltd.

Analytical Chemists \* Gechemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-21 FAX: 604-984-0218

To: VICEROY INTERNATIONAL EXPLORATION

BAG 5040  
 DAWSON CITY, YT  
 Y0B 1G0

Page Number : 2-A  
 Total Pages : 3  
 Certificate Date: 04-OCT  
 Invoice No. : 1974453  
 P.O. Number :  
 Account : OQN

Project : 4340-03-5333  
 Comments: ATTN: RICK DIMENT/L. JAMRICH

## CERTIFICATE OF ANALYSIS A9744531

SOIL SAMPLE	PREP CODE	AN ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Hg %	Mn ppm
PKB0300	201 202	< 5	0.2	0.71	2	210	< 0.5	< 2	1.38	< 0.5	2	3	14	0.61	< 10	50	0.02	< 10	0.07	280
PKB0400	201 202	< 5	< 0.2	0.96	< 2	160	< 0.5	< 2	0.05	< 0.5	2	11	11	1.32	< 10	10	0.09	< 10	0.23	105
PKB0500	201 202	< 5	0.2	1.05	2	220	0.5	< 2	0.94	< 0.5	5	9	21	1.18	< 10	40	0.09	10	0.18	225
PKB0600	201 202	< 5	0.2	0.66	< 2	170	< 0.5	< 2	0.55	0.5	< 1	5	13	0.49	< 10	10	0.06	< 10	0.05	25
PKB0700	201 202	< 5	< 0.2	0.29	< 2	40	< 0.5	< 2	0.05	< 0.5	< 1	1	2	0.32	< 10	< 10	0.03	< 10	0.03	25
PKB0800	201 202	< 5	< 0.2	0.44	< 2	100	< 0.5	< 2	0.93	0.5	1	1	7	0.38	< 10	30	0.02	< 10	0.04	135
PKB0900	201 202	< 5	0.2	1.42	< 2	190	0.5	< 2	1.00	1.5	6	10	43	1.28	< 10	70	0.09	10	0.18	400
PKB1000	201 202	< 5	< 0.2	1.00	8	160	< 0.5	< 2	0.02	< 0.5	3	12	10	1.67	< 10	10	0.13	30	0.18	100
PKB1100	201 202	< 5	0.2	0.53	< 2	80	< 0.5	< 2	0.02	< 0.5	1	6	4	0.56	< 10	< 10	0.07	< 10	0.06	65
PKB1200	201 202	< 5	0.2	0.95	2	140	< 0.5	< 2	0.04	< 0.5	3	11	15	1.59	< 10	10	0.11	< 10	0.25	90
PKB1300	201 202	< 5	0.6	0.97	< 2	230	< 0.5	< 2	0.35	< 0.5	3	8	15	0.91	< 10	60	0.09	< 10	0.15	115
PKB1400	201 202	< 5	< 0.2	0.28	2	50	< 0.5	< 2	0.02	< 0.5	< 1	3	6	0.32	< 10	10	0.03	< 10	0.01	15
PKB1450	201 202	< 5	< 0.2	2.00	2	280	< 0.5	< 2	0.11	< 0.5	5	19	17	2.31	< 10	10	0.17	10	0.01	130
PKB1500	201 202	< 5	< 0.2	0.37	< 2	70	< 0.5	< 2	0.03	< 0.5	< 1	4	4	0.46	< 10	< 10	0.06	< 10	0.05	25
PKB1600	201 202	< 5	< 0.2	0.49	< 2	130	< 0.5	< 2	1.09	< 0.5	< 1	4	7	0.41	< 10	50	0.02	< 10	0.06	20
PKB1650	201 202	< 5	< 0.2	1.13	2	180	< 0.5	< 2	0.07	< 0.5	2	12	9	1.23	< 10	10	0.11	10	0.28	55
PKB1750	201 202	< 5	0.2	0.45	< 2	100	< 0.5	< 2	0.14	< 0.5	1	2	8	0.45	< 10	30	0.03	< 10	0.05	60
PKB1800	201 202	< 5	0.2	1.07	2	200	< 0.5	< 2	0.08	0.5	5	13	21	1.63	< 10	50	0.13	10	0.35	155
PKB1850	201 202	< 5	0.2	1.43	8	240	0.5	< 2	0.28	< 0.5	6	15	33	2.05	< 10	70	0.12	10	0.49	275
PKB1900	201 202	< 5	< 0.2	2.22	12	220	< 0.5	< 2	0.06	< 0.5	6	24	25	3.64	< 10	20	0.17	10	0.83	270
PKB1950	201 202	< 5	0.4	1.71	8	350	0.5	< 2	0.22	1.0	14	17	65	3.75	< 10	40	0.21	10	0.51	375
PKB2000	201 202	< 5	0.2	0.65	2	130	< 0.5	< 2	0.11	< 0.5	2	7	6	0.89	< 10	10	0.09	< 10	0.14	110
PKB2050	201 202	< 5	0.6	0.89	< 2	200	< 0.5	< 2	0.93	0.5	1	8	21	1.12	< 10	60	0.06	< 10	0.17	40
PKB2150	201 202	< 5	0.2	0.87	2	160	< 0.5	< 2	0.20	< 0.5	3	10	15	1.07	< 10	50	0.09	< 10	0.23	55
PKB2250	201 202	< 5	< 0.2	1.15	6	200	< 0.5	< 2	0.41	0.5	6	14	21	1.42	< 10	50	0.12	10	0.43	165
PKB2350	201 202	< 5	< 0.2	0.61	< 2	160	< 0.5	< 2	1.99	1.5	3	6	20	0.62	< 10	100	0.04	< 10	0.19	750
PKB2400	201 202	< 5	< 0.2	0.87	8	130	< 0.5	< 2	0.07	< 0.5	3	11	17	2.07	< 10	10	0.07	10	0.30	145
PKB2450	201 202	< 5	< 0.2	0.35	2	60	< 0.5	< 2	0.01	< 0.5	< 1	3	6	0.41	< 10	10	0.03	10	0.02	20



# Chemex Labs Ltd.

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 212 Brooksbank Ave., North Vancouver  
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BAG 5040  
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## CERTIFICATE OF ANALYSIS A9744531

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
PKB0100	201	202	1	0.05	5	1030	< 2	< 2	< 1	89	0.01	< 10	< 10	15	< 10	12
PKB0400	201	202	1	0.03	7	330	6	< 2	1	9	< 0.01	< 10	< 10	39	< 10	48
PKB0500	201	202	< 1	0.03	8	590	6	< 2	1	74	0.01	< 10	< 10	28	< 10	78
PKB0600	201	202	< 1	0.05	3	360	2	< 2	< 1	56	< 0.01	< 10	< 10	16	< 10	24
PKB0700	201	202	< 1	0.08	1	170	< 2	< 2	< 1	7	0.01	< 10	< 10	10	< 10	8
PKB0800	201	202	< 1	0.07	2	430	< 2	< 2	< 1	79	0.01	< 10	< 10	9	< 10	18
PKB0900	201	202	1	0.05	18	1100	4	< 2	1	78	0.01	< 10	< 10	35	< 10	54
PKB1000	201	202	1	0.01	8	410	10	< 2	< 1	8	< 0.01	< 10	< 10	68	< 10	42
PKB1100	201	202	< 1	0.04	1	510	2	< 2	< 1	5	< 0.01	< 10	< 10	24	< 10	16
PKB1200	201	202	2	0.04	8	580	4	< 2	< 1	9	< 0.01	< 10	< 10	40	< 10	42
PKB1300	201	202	1	0.07	9	570	< 2	< 2	1	35	0.01	< 10	< 10	28	< 10	30
PKB1400	201	202	< 1	0.05	1	140	2	< 2	< 1	5	< 0.01	< 10	< 10	11	< 10	8
PKB1450	201	202	1	0.03	12	250	6	< 2	2	16	< 0.01	< 10	< 10	58	< 10	54
PKB1500	201	202	< 1	0.06	2	160	2	< 2	< 1	6	< 0.01	< 10	< 10	18	< 10	12
PKB1600	201	202	1	0.05	4	500	2	< 2	< 1	93	0.01	< 10	< 10	8	< 10	6
PKB1650	201	202	< 1	0.03	6	260	6	2	1	10	< 0.01	< 10	< 10	40	< 10	30
PKB1750	201	202	< 1	0.06	3	180	2	< 2	< 1	18	0.01	< 10	< 10	10	< 10	10
PKB1800	201	202	1	0.01	13	800	8	< 2	1	15	< 0.01	< 10	< 10	33	< 10	58
PKB1850	201	202	2	0.01	19	720	8	2	2	31	< 0.01	< 10	< 10	36	< 10	76
PKB1900	201	202	1	< 0.01	15	490	16	< 2	3	11	0.01	< 10	< 10	67	< 10	88
PKB1950	201	202	4	0.02	36	1260	18	2	1	71	0.01	< 10	< 10	50	< 10	158
PKB2000	201	202	< 1	0.05	4	290	6	2	< 1	14	0.01	< 10	< 10	25	< 10	28
PKB2050	201	202	1	0.05	11	650	6	< 2	< 1	66	0.01	< 10	< 10	22	< 10	24
PKB2150	201	202	1	0.04	7	560	6	< 2	1	22	0.01	< 10	< 10	26	< 10	34
PKB2250	201	202	1	0.03	13	470	6	< 2	1	34	0.01	< 10	< 10	37	< 10	72
PKB2350	201	202	1	0.01	14	750	6	< 2	< 1	101	< 0.01	< 10	< 10	12	< 10	42
PKB2400	201	202	1	0.01	10	710	10	2	1	10	< 0.01	< 10	< 10	36	< 10	54
PKB2450	201	202	< 1	0.01	2	260	2	< 2	< 1	4	< 0.01	< 10	< 10	13	< 10	12

Brewery Creek

10/31/97 FRI 14:56 FAX 6045225874

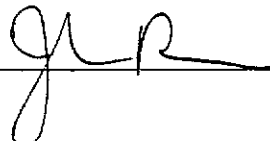
13/09/99

Certificate of Analysis

# of pages (not including this page): 1

Pete Risby

WO# 00001

Certified by   
John Reeve (Senior Chemist)

Date Received: 03/09/99

**SAMPLE PREPARATION:**

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	14	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh

**ANALYTICAL METHODS SUMMARY:**

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000
Ag	g/mt	Silver	A: AAS (BC)	aqua regia	1.0	10000
Cu	%	Copper	A: AAS	aqua regia	0.001	#
Pb	%	Lead	A: AAS (BC)	aqua regia	0.001	#
Zn	%	Zinc	A: AAS	aqua regia	0.001	#

AAS = atomic absorption spectrophotometry  
FA = fire assay

BC = background correction applied

# No reporting limit. Interferences, solubility limits may limit accuracy of AAS at very high grades.

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

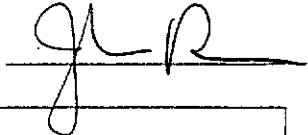
13/09/99

Certificate of Analysis

Page 1

Pete Risby

WO# 00001

Certified by 

Sample #	Au ppb	Ag g/mt	Cu %	Pb %	Zn %
1	<5	44.6	0.132	1.190	4.280
2	<5	53.3	0.074	1.920	2.920
3	142	379.0	0.748	1.210	1.820
4	528	86.2	0.987	0.409	0.328
5	450	254.0	0.532	0.875	3.380
6	601	585.0	0.981	3.290	2.010
7	583	111.3	0.190	0.541	0.620
8	303	330.0	1.070	3.000	3.300
9	584	143.9	0.407	0.219	0.070
10	250	373.0	1.100	0.783	1.080
11	1471	38.7	0.193	0.086	0.072
12	140	119.1	1.270	0.433	0.662
13	336	131.0	0.223	0.713	0.328
14	1908	80.7	0.450	0.402	0.227

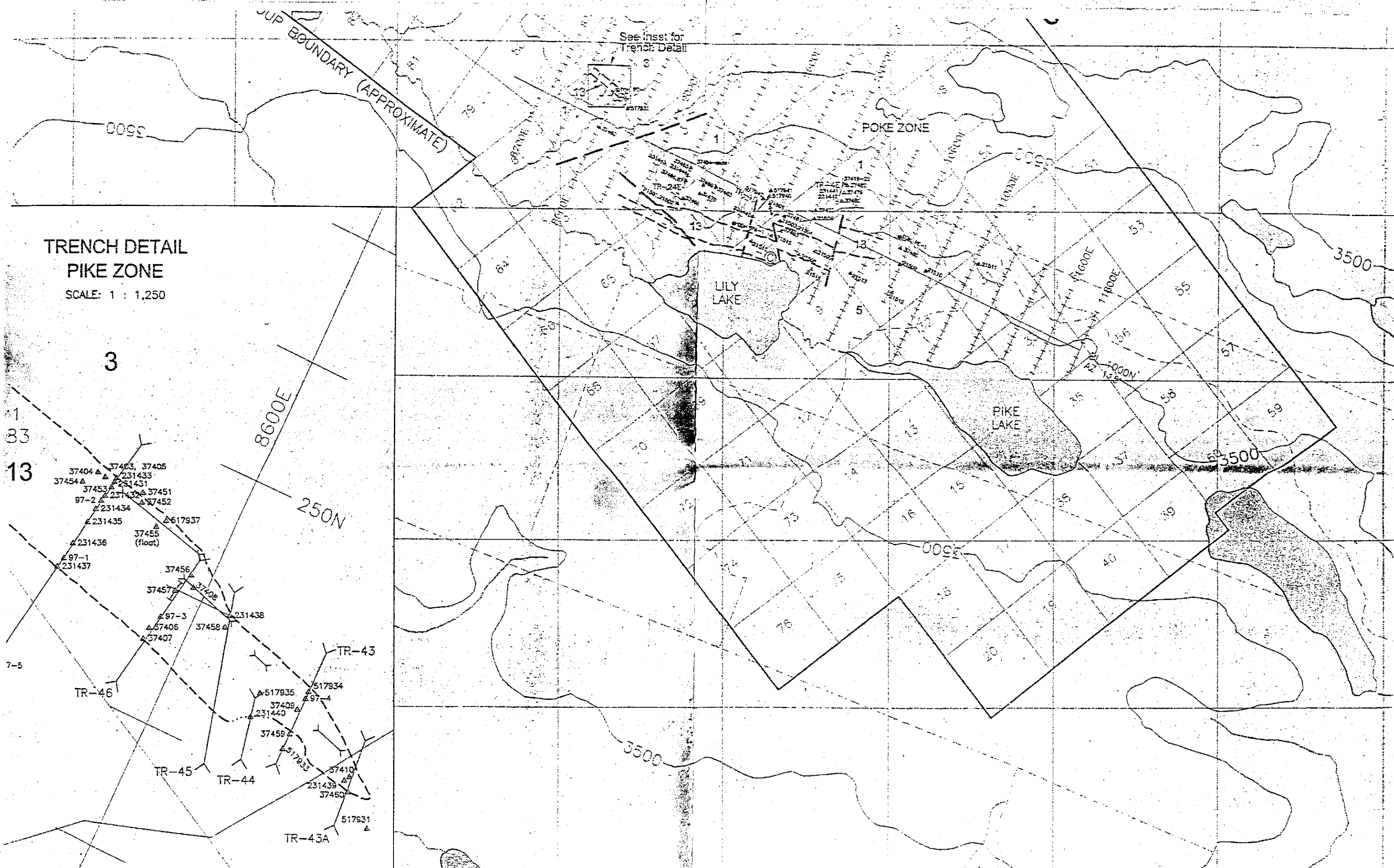
JUP BOUNDARY (APPROXIMATE)

See inset for Trench Detail

POKE ZONE

### TRENCH DETAIL PIKE ZONE

SCALE: 1 : 1,250



3

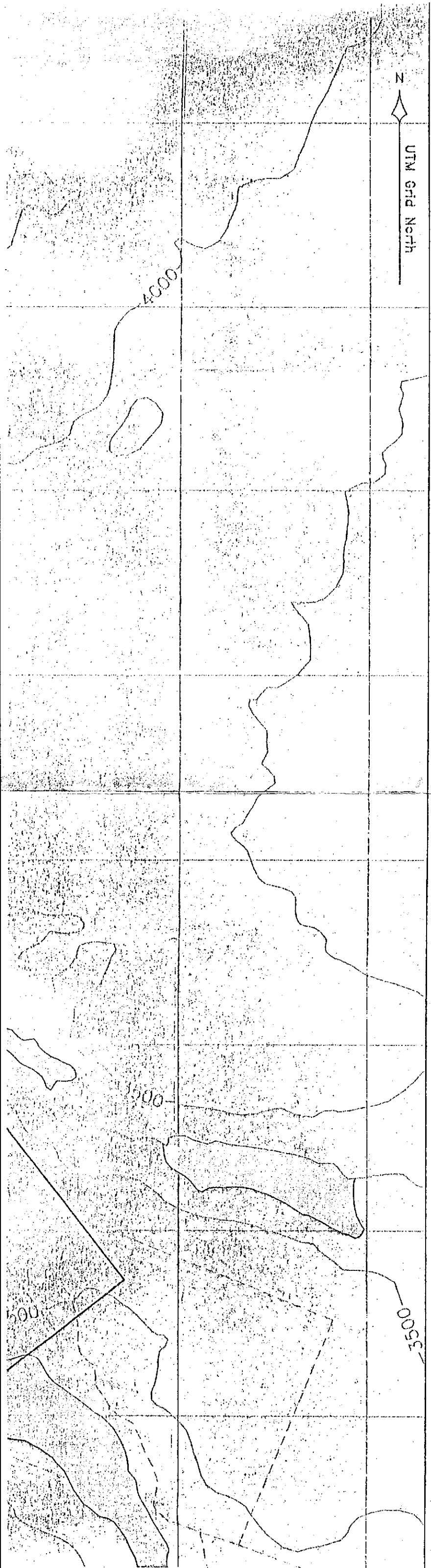
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8600E

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 37450  
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 TR-43A

7-5



6399,000

6395,000

Sample Number	Location	Width	Au g/L	Ag ppm	Cu ppm	Az %
231431	TR48	1.0 m	0.07	19	760	1.3
231432	TR48	1.0 m	0.24	105	10170	5.7
231433	TR48	1.0 m	N/A	43	1220	7.8
231434	TR48	1.0 m	0.07	98	2770	2.5
231435	TR48	1.0 m	0.07	27	3050	0.3
231436	TR48	1.0 m	0.07	71	1720	1.4
231437	TR48	1.0 m	0.07	10	670	0.1
231438	TR45	1.0 m	N/A	96	1140	8.6
231439	TR43A	1.0 m	0.07	16	1000	1.5
231440	TR44	1.0 m	0.07	94	6830	1.7
231441	TR4E	grab	0.17	75	8940	21.5
231442	TR4E	1.0 m	0.07	2	150	0.0
231443	TR24E	1.0 m	0.07	19	120	0.1
231444	TR24E	1.0 m	0.07	5	60	0.1
231445	TR10	1.0 m	N/A	45	3700	12.1

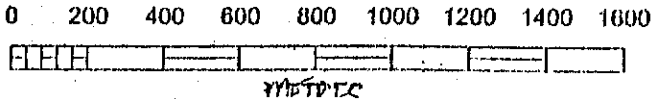
HASTINGS MGMT. RESULTS  
P. RISBY RESULTS

Sample Number	Au oz/L	Ag g/L
21501	0.078	1.2
21502	0.001	<1.0
21503	0.008	19.1
21504	0.005	8.6
21505	0.002	7.3
21506	0.004	2.3
21507	0.004	<1.0
21508	0.007	2.3
21509	0.001	6.3
21510	0.004	12.7
21511	0.003	1.8
21512	0.002	<1.0
21513	<0.001	<1.0
21514	0.014	<1.0
21515	0.006	<1.0
21516	0.001	<1.0

Sample Number	Au ppb	Ag ppm	Cu %	Pb %	Zn %
97-1	7	5.3	0.016	0.38	1.210
97-2	37	79.9	0.047	1.85	0.375
97-3	79	<1.0	0.133	0.003	0.003
97-4	6	<1.0	0.136	0.004	0.002
97-5	181	<1.0	0.146	0.003	0.002
97-6	37	<1.0	0.079	0.002	0.003
97-7	126	<1.0	0.136	0.002	0.002
97-8	<5	<1.0	0.002	0.001	0.002

LEGEND & SYMBOLS

- 15** QUATERNARY  
Unconsolidated alluvial and glacial deposits
  - 14** TERTIARY  
Grey and dark grey andesite, dacite and basalt
  - 13** TERTIARY  
Granodiorite quartz and feldspar porphyry, probably plutonic equivalent of 14
  - 5** UPPER DEVONIAN AND LOWER (?) MISSISSIPPIAN  
Chert-pebble conglomerate; black & grey chert, shale, quartzite; black slate, shale, sandstone, phyllite; minor conglomerate
  - 3** ORDOVICIAN AND SILURIAN  
Black and varicoloured cherts, shales; minor chert-pebble conglomerate, quartzite, limestone, phyllite; massive chert-pebble conglomerate
  - 1** PROTEROZOIC  
Shale, slate, phyllite, quartzite; minor andesite quartz-pebble quartzite, grey quartzite, dark slate
- Geologic contact
  - - - Fault
  - ~ Elevation contour interval, (500 feet)
  - Stream, creek, lake
  - - - Trail
  - Claim group boundary (approximate)
  - - - Claim line
  - 1, YB87183 Claim number, grant number
  - PK-A-⊙-⊙-⊙-⊙ Soil sample line, sample location
  - △ 21501 Rock sample, number
  - ⊗ DDH PE-1 Diamond drill hole, number
  - ⊙ Camp location

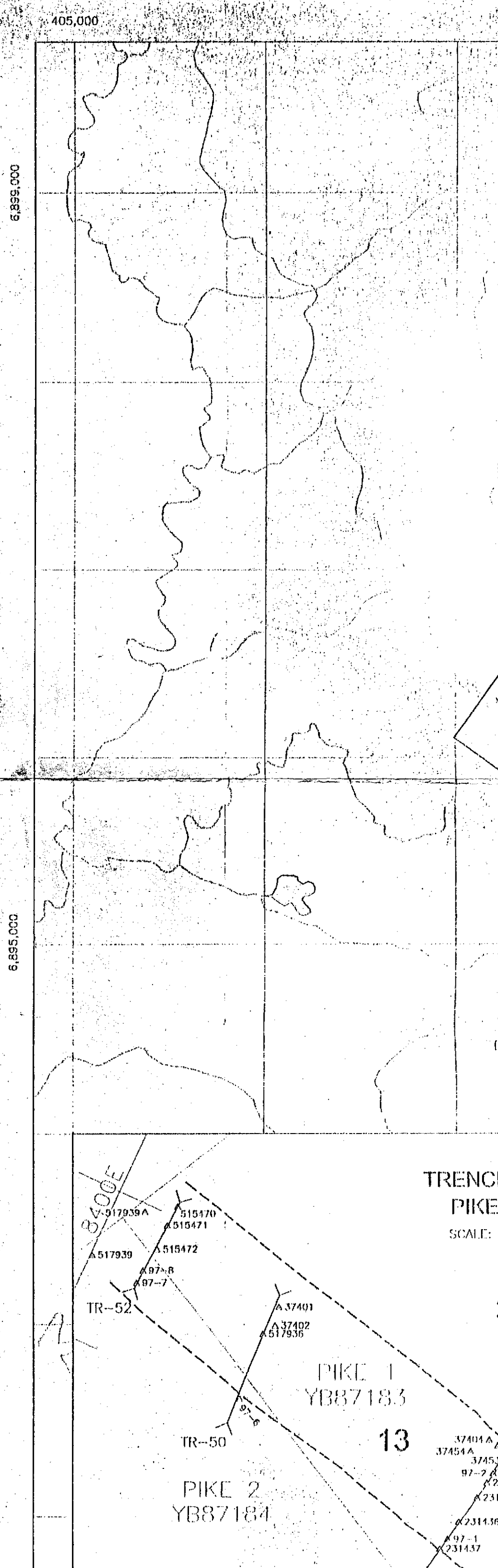


# TECK RESULTS

Sample Number	Au ppm	Ag ppm	Cu ppm-%	As ppm-%
37401	1290	60.6	5777	17.8%
37402	155	128.2	3.58%	1.85%
37403	260	367.2	1.42%	5.63%
37404	20	2.0	40.3	6925
37405	209	60.4	1771	2.9%
37406	5	30.3	3188	725
37407	5	94.2	311	7580
37408	5	0.6	185	145
37409	5	<0.2	142	80
37410	145	63.2	1.51%	6.1%
37419	5	2.6	89	100
37420	5	0.6	17	<5
37421	5	<0.2	9	30
37422	5	<0.2	117	5
37423	5	3.2	35	5
37451	5	<0.2	18	34
37452	5	29.8	223	470
37453	5	6.6	70	9250
37455	105	51.3	69	7.16%
37456	10	31.6	742	2250
37457	5	0.2	97	45
37458	5	0.4	153	25
37459	5	1.8	180	300
37460	10	61.6	3120	3655
37462	5	2.4	120	190
37463	NS	NS	NS	ns
37464	5	14.4	415	20
37465	5	0.4	38	30
37466	5	4.6	162	1680
37467	5	2.6	181	85
37468	5	12.4	281	1750
37469	5	40.6	431	55
37470	75	21.6	2022	5.98%
37479	15	422.7	2268	1.3%
37480	5	140.2	529	825
37481	5	4.8	152	95
37482	225	118.4	901	8.36%
37483	5	18.6	86	1975
37485	10	606.8	2279	5165

# VICEROY INTERNATIONAL RESULTS

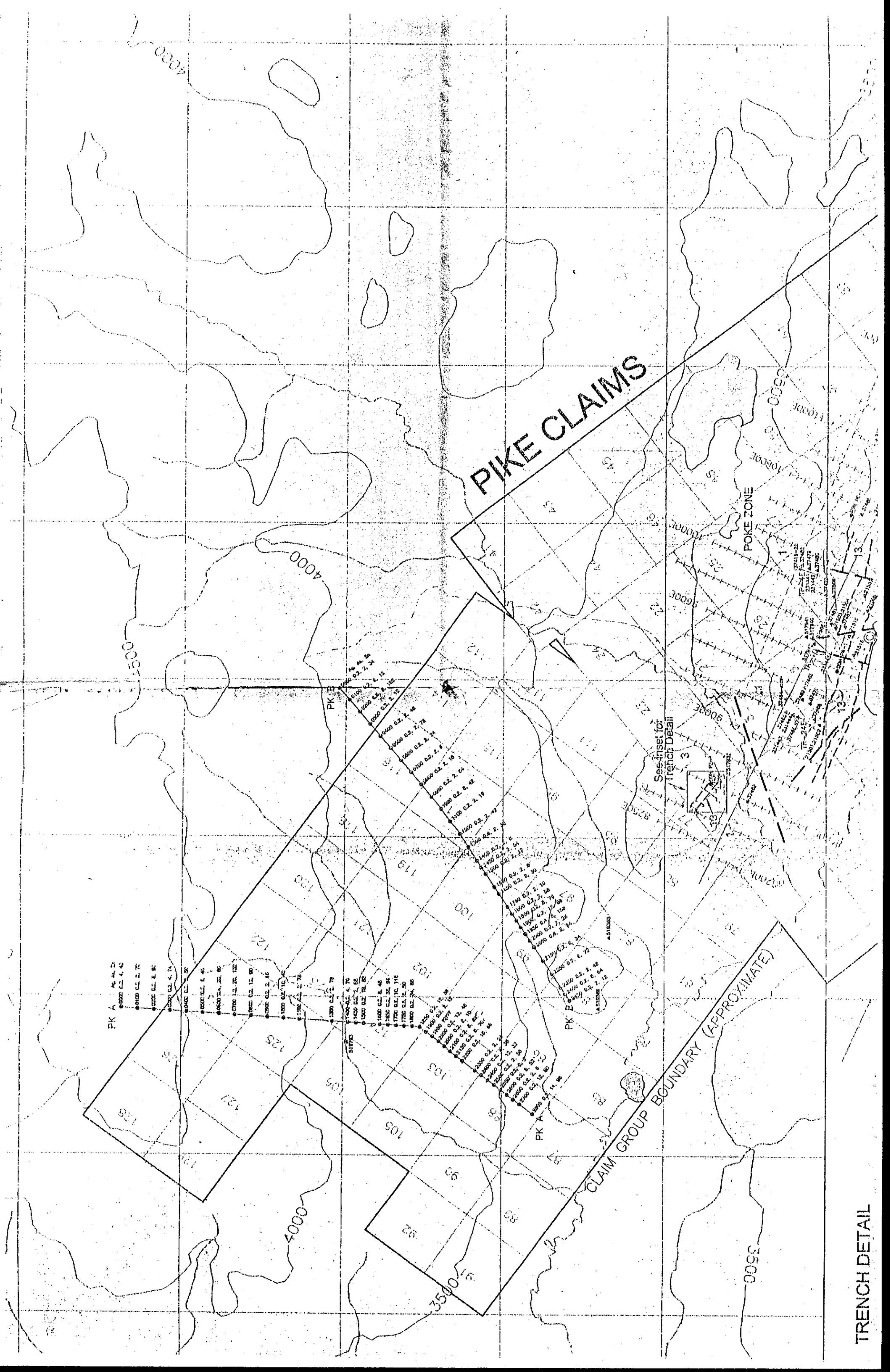
Sample Number	Au ppm	Ag ppm	Cu ppm	As ppm
515470	80	3.8	57	>10000
515471	<5	2.2	279	7020
515472	865	34.0	2400	>10000
519368	15	<0.2	11	152
519369	<5	0.2	42	16
517931	<5	52.4	1575	2900
517932	20	86.6	>10000	84
517933	<5	15.6	200	352
517934	50	>100	2590	>10000
517935	705	34.8	633	>10000
517936	140	>100	2320	>10000
517937	30	57.6	1690	5790
517938	500	62.8	3820	>10000
517939	5	23.8	644	596
517940	<5	3.4	5.4	1220
517941	10	>100	776	1925
517942	<5	0.4	42	62
519793	<5	<0.02	25	28



TRENCH  
PIKE  
SCALE:

13

37404 A  
37454 A  
37453  
97-2  
97-1  
231  
231436  
97-1  
231437



PIKE CLAIMS

POKE ZONE

See inset for Trench Detail

CLAIM GROUP BOUNDARY (APPROXIMATE)

TRENCH DETAIL