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GEOLOGICAL REPORT  
ON THE GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
STU 4 & 5 MINERAL CLAIMS

17,128

Located in the Iskut River Area

Liard Mining Division

NTS 104B/10W

56°39' North Latitude

130°46' West Longitude

SUB-RECORDER  
RECEIVED

MAR 2 1988

M.R. # ..... \$.....  
VANCOUVER, B.C.

- Prepared for -

HECTOR RESOURCES INC.

- Prepared by -

S.L. TODORUK, Geologist

C.K. IKONA, P.Eng.

February, 1988

# GEOLOGICAL REPORT on the STU 4 & 5 MINERAL CLAIMS

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## 1.0 INTRODUCTION

The Stu 4 & 5 mineral claims (27 units) are situated in the Iskut River area of northwest British Columbia 10 kilometres east-northeast of Skyline Explorations Ltd.'s Stonehouse Gold deposit and 12 kilometres east of the Cominco/Delaware Resource Corp. Twin Zone gold deposit. Both deposits report reserves in excess of one million tons grading approximately 0.7 oz/ton gold.

A total of 50 man days were spent prospecting, mapping, rock chip and soil sampling the Stu 4 & 5 property between July 11, 1987 and July 28, 1987.

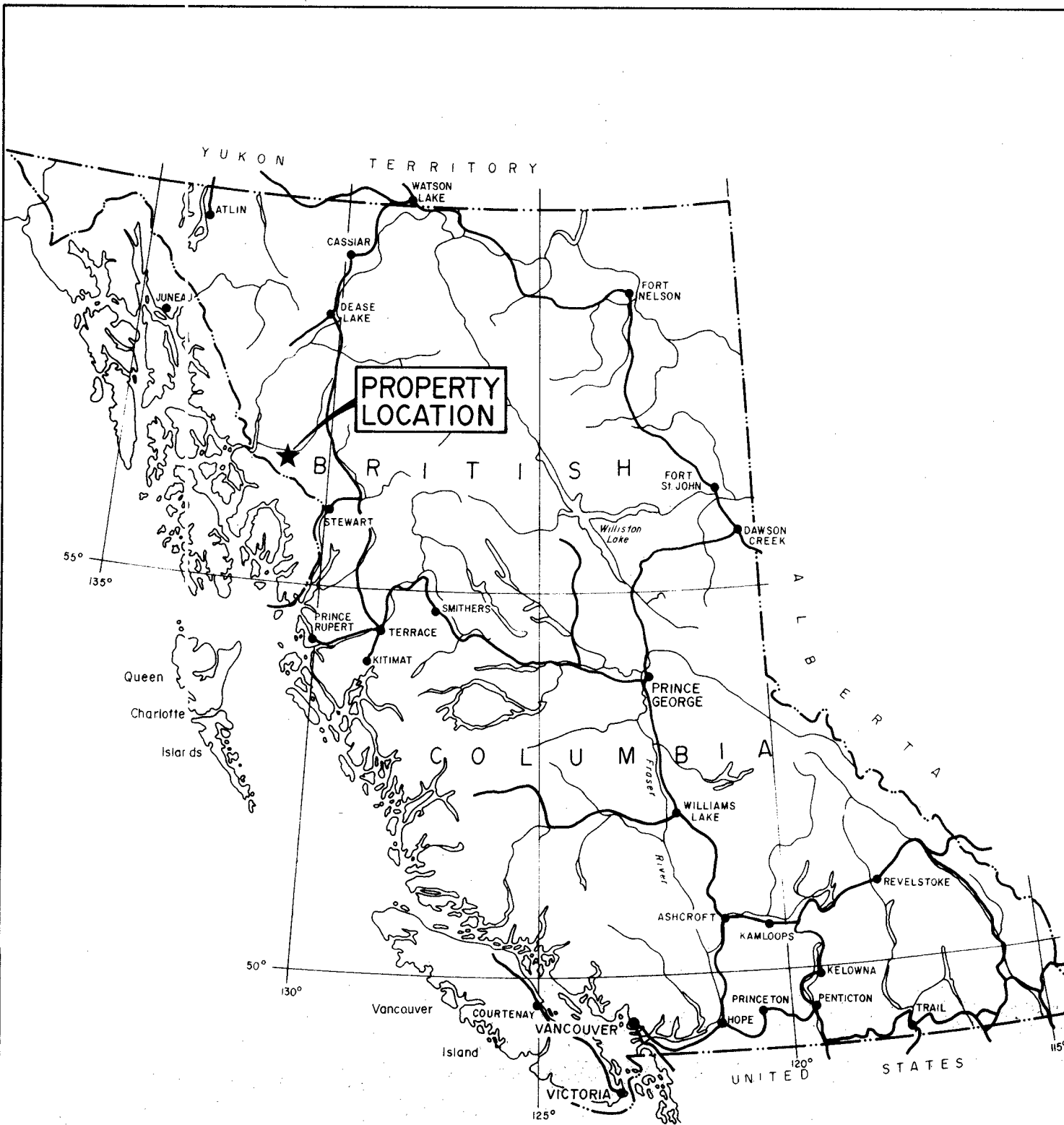
To date, the most successful exploration tool utilized on the Hector property has been soil geochemical sampling. Extremely dense underbrush comprised of devil's club and slide alder cover the lower elevations along the Iskut River and as a result very poor outcrop exposure is available. The upper reaches of the property consist of extremely steep and dangerous cliff outcrops.

At an elevation of approximately 200 metres above sea level, a soil anomaly measuring 100 metres x 100 metres was discovered with values ranging from 10 to 520 ppt gold. Numerous other spot high gold soil values were also obtained.

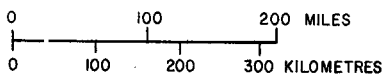
Introductory material for this report has been abridged from the March, 1987 Geological Report on the Stu 4 & 5 Mineral Claims written by Todoruk and Ikona.

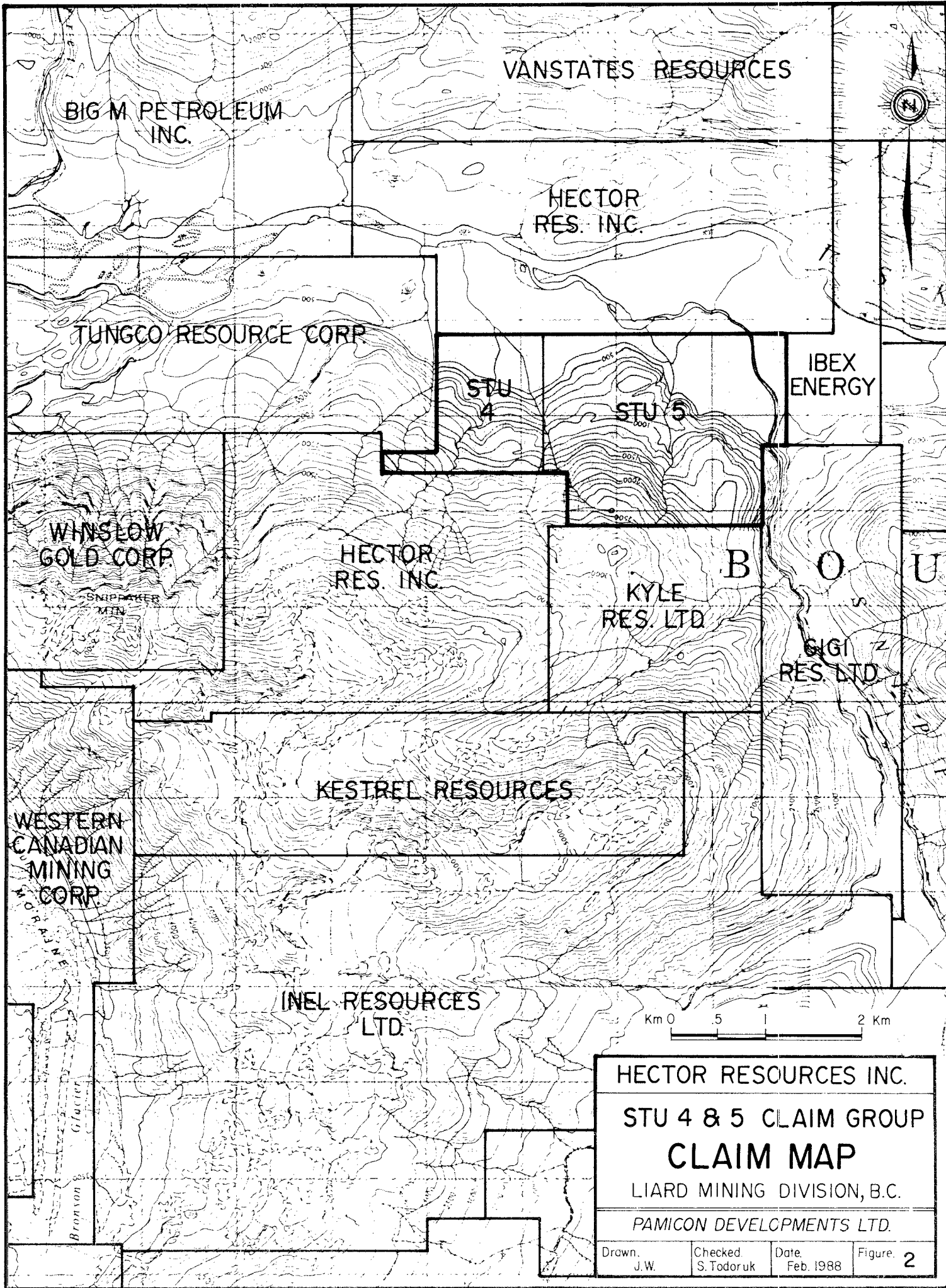
## 2.0 LIST OF CLAIMS

Records of the British Columbia Ministry of Energy, Mines and Petroleum Resources indicate that the following claims (Figure 2) is owned by I. Hagemoen. Separate documents indicate the claims are under option to Hector Resources Inc.



<b>HECTOR RESOURCES INC.</b>			
<b>STU 4 &amp; 5 CLAIM GROUP PROPERTY LOCATION MAP</b>			
LIARD MINING DIVISION, B.C.			
<i>PAMICON DEVELOPMENTS LTD.</i>			
Drawn J.W.	Checked S. Todoruk	Date Feb. 1988	Figure I.





BIG M PETROLEUM  
INC.

VANSTATES RESOURCES

HECTOR  
RES. INC.

TUNGCO RESOURCE CORP.

STU  
4

STU 5

IBEX  
ENERGY

WHINLOW  
GOLD CORP.

HECTOR  
RES. INC.

KYLE  
RES. LTD.

B O U

GIGI  
RES. LTD.

WESTERN  
CANADIAN  
MINING  
CORP.

KESTREL RESOURCES

INEL RESOURCES  
LTD.

Km 0 5 1 2 Km

HECTOR RESOURCES INC.

STU 4 & 5 CLAIM GROUP

CLAIM MAP

LIARD MINING DIVISION, B.C.

PAMICON DEVELOPMENTS LTD.

Drawn.  
J.W.

Checked.  
S. Todoruk

Date.  
Feb. 1988

Figure. 2

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
Stu 4	3721	7	December 5, 1986	December 5, 1992
Stu 5	3722	20	December 5, 1986	December 5, 1992

### 3.0 LOCATION, ACCESS AND GEOGRAPHY

The Stu 4 & 5 mineral claims are located on the eastern edge of the Coast Range Mountains approximately 110 kilometres northwest of Stewart, British Columbia. The property is situated on the eastern flank of Snippaker Mountain. The claims lie within the Liard Mining Division centred at 56°39' north latitude and 130°46' west longitude.

Access to the property is by helicopter from the Bronson Creek gravel air strip, located approximately 11 kilometres to the west. Daily scheduled flights to the strip from Terrace and Stewart have been available during the field season using fixed wing aircraft. Alternate access may be possible from the airstrip constructed by Skyline Explorations Ltd. on Johnny Flats, about ten kilometres west-southwest of the property or from the Snippaker gravel air strip located approximately 11 kilometres to the southeast.

A proposal by C.K. Ikona of Pamicon Developments Ltd., on behalf of Skyline Explorations Ltd., addresses the construction of a road approximately 65 kilometres long, on the south side of the Iskut Valley to connect the Stewart-Cassiar Highway with a proposed BC Hydro dam site on the Iskut River and Skyline's Stonehouse Gold deposit on Bronson Creek.

Geographically, the area is typical of mountainous and glaciated terrain with the elevations ranging from a few hundred metres above sea level in the river valley bottoms to in excess of 1200 metres on the western claim boundary. Most of the property occurs below tree line although the upper reaches are covered with alpine vegetation.

The Snippaker Creek tributary below 580 metres falls within a precipitous, gossanous canyon. Lower slopes are covered with a dense growth of spruce with an undergrowth of devil's club. More open areas contain alder growth. Both summer and winter temperatures are moderate with over 200 centimetres of annual precipitation.

Rugged topography, climate and vegetation all inhibit traversing throughout the claim group. Therefore, operating with local helicopter support appears to be the most practical and cost effective means of exploring the GIM Claim during reconnaissance-style programs.

#### 4.0 AREA HISTORY

The first recorded work done in the Iskut Region occurred in 1907 when a prospecting party from Wrangell, Alaska staked nine claims north of Johnny Mountain. Iskut Mining Company subsequently worked crown granted claims along Bronson Creek and on the north slope of Johnny Mountain. Up to 1920, a 9 metre adit revealed a number of veins and stringers hosting galena and gold-silver mineralization.

In 1954, Hudsons Bay Mining & Smelting located the Pick Axe showing and high grade gold-silver-lead-zinc float on the open upper slopes of Johnny Mountain, which today is part of Skyline Explorations Ltd.'s Reg deposit. The claims were worked and subsequently allowed to lapse.

During the 1960s, several major mining companies conducted helicopter borne reconnaissance exploration programs in a search for porphyry-copper-molybdenum deposits. Several claims were staked on Johnny Mountain and on Sulphurets Creek.

Between 1965 and 1971, Silver Standard Mines, and later Sumitomo, worked the E + L prospect on Nickel Mountain at the headwaters of Sulphurets Creek. Work

included trenching, drilling and 460 metres of underground development work. Reserves include 3.2 million tons of 0.80% nickel and 0.60% copper.

In 1969 Skyline staked the Inel property after discovering massive sulphide float originating from the head of the Bronson Creek glacier.

During 1972, Newmont Mining Corporation of Canada Limited carried out a field program west of Newmont Lake on the Dirk claim group. Skarn-type mineralization was the target of exploration. Work consisted of airborne and ground magnetic surveys, geological mapping and diamond drilling. One and one-half metres grading 0.220 ounces gold per ton and 15.2 metres of 1.5% copper was intersected on the Ken showing.

After restaking the Reg property in 1980, Skyline carried out trenching and drilling for veined high-grade gold and polymetallic massive sulphide mineralization on the Reg and Inel deposits between 1981 and 1985.

In 1986, drilling and 460 metres of underground cross-cutting and drifting on the Stonehouse Gold Zone confirmed the presence of high grade gold mineralization with additional values in silver and copper over mineable widths with good lateral and depth continuity. As of January 1988, reserves on the Stonehouse Gold Zone were reported as:

	<u>Au</u> (oz/ton)	<u>Tons</u>
Total Measured	1.246	121,000
Total Drill-Indicated	0.556	236,875
Total Inferred	<u>0.570</u>	<u>700,000</u>
Subtotal	0.644	1,057,875
McFadden	<u>2.800</u>	<u>30,000</u>
Ore Reserve Total	0.704	1,087,875

On the Delaware Resources Ltd. - Cominco Snip claims immediately north of the Stonehouse Gold deposit, approximately 10,000 metres of diamond drilling was



carried out, mainly delineating the Twin Zone. Drill hole S-71 intersected 10.2 metres of 2.59 oz/ton gold. An underground program is expected to begin in early 1988. As of December, 1987, reserves on the Twin Zone were reported as:

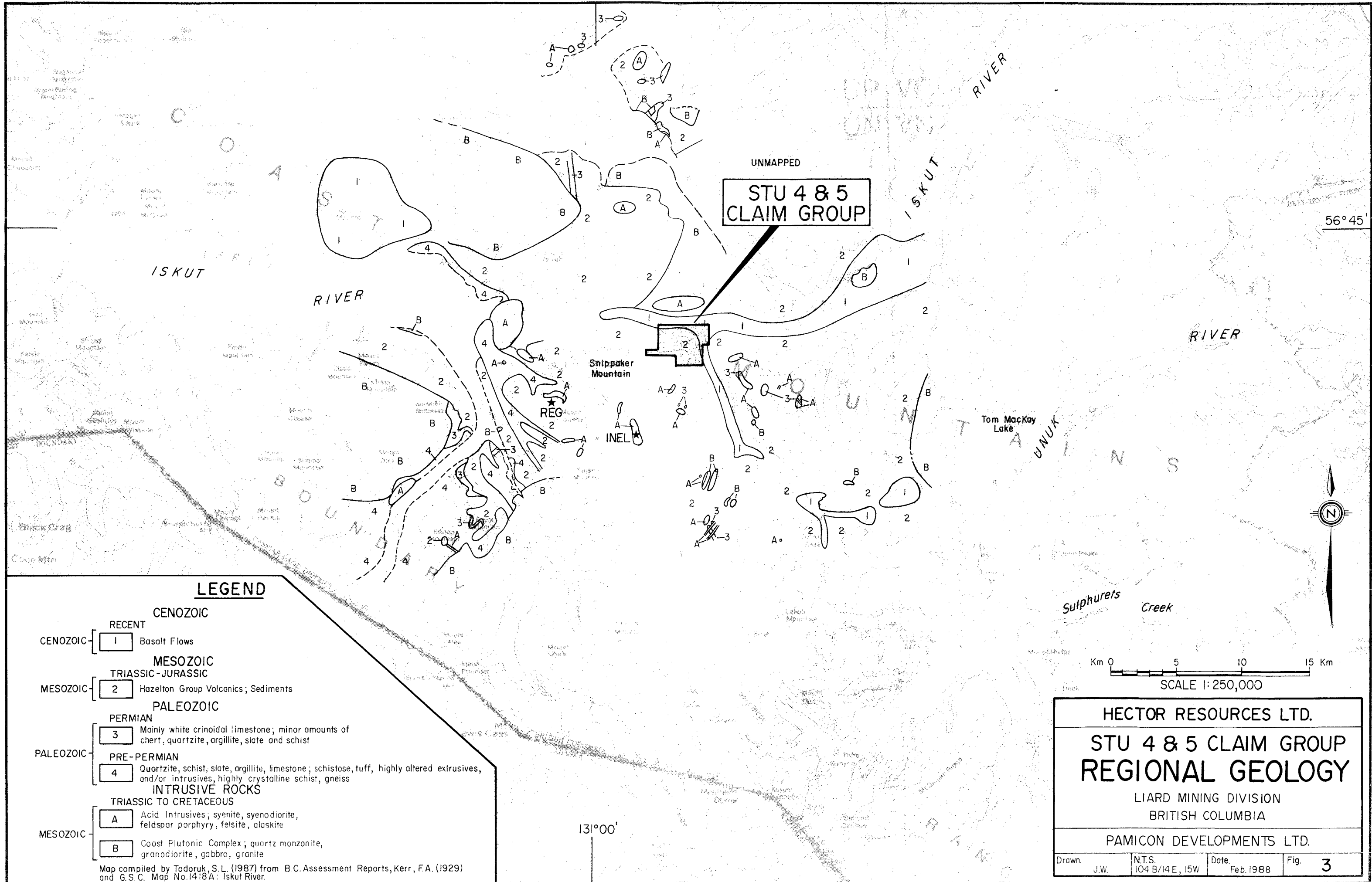
	<u>Au</u> (oz)	<u>Tons</u>
Total Inferred	0.700	1,100,000

Also, during 1987 Inel Resources Ltd. commenced an underground drifting and diamond drilling program along the main cross-cut intent on intersecting the Discovery Zone which hosts gold-bearing polymetallic massive sulphide mineralization.

Western Canadian Mining Corp. carried out an extensive diamond drilling program on their Gosson claims, concentrating on the Khyber Pass Gold Zone which is 45 metres thick. The best drill hole intersection in this zone to date is as follows:

<u>Hole</u>	<u>From</u> (m)	<u>To</u> (m)	<u>Length</u>		<u>Gold</u> (oz/t)	<u>Silver</u> (oz/t)	<u>Copper</u> (%)
			(m)	(ft)			
85-3	11.2	16.8	5.6	18.4	0.12	6.48	1.74
	30.2	44.2	5.2	17.1	0.17	2.66	0.90
	54.5	60.1	5.6	18.4	0.15	1.77	--
	66.0	69.0	3.0	9.8	0.28	1.54	--

Tungco Resources Corporation drill tested three main gold/copper quartz vein targets; the Bluff, No. 7 and Swamp Zones. The Bluff Zone has been delineated 70 metres along strike and 60 metres downdip with better intersections grading up to 0.243 oz/ton gold across 2.45 metres. The No. 7 Vein returned 1.12 metres of 0.651 oz/ton gold.

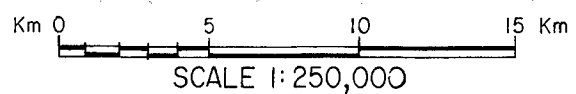


**LEGEND**

- CENOZOIC**
- RECENT
- CENOZOIC [1] Basalt Flows
- MESOZOIC**
- TRIASSIC-JURASSIC
- MESOZOIC [2] Hazelton Group Volcanics; Sediments
- PALEOZOIC**
- PERMIAN
- PALEOZOIC [3] Mainly white crinoidal limestone; minor amounts of chert, quartzite, argillite, slate and schist
- PRE-PERMIAN
- PALEOZOIC [4] Quartzite, schist, slate, argillite, limestone; schistose, tuff, highly altered extrusives, and/or intrusives, highly crystalline schist, gneiss
- INTRUSIVE ROCKS**
- TRIASSIC TO CRETACEOUS
- MESOZOIC [A] Acid Intrusives; syenite, syenodiorite, feldspar porphyry, felsite, alaskite
- MESOZOIC [B] Coast Plutonic Complex; quartz monzonite, granodiorite, gabbro, granite

Map compiled by Todoruk, S.L. (1987) from B.C. Assessment Reports, Kerr, F.A. (1929) and G.S.C. Map No. 1418A: Iskut River.

<b>HECTOR RESOURCES LTD.</b>			
<b>STU 4 &amp; 5 CLAIM GROUP</b>			
<b>REGIONAL GEOLOGY</b>			
LIARD MINING DIVISION BRITISH COLUMBIA			
<b>PAMICON DEVELOPMENTS LTD.</b>			
Drawn. J.W.	N.T.S. 104 B/14E, 15W	Date. Feb. 1988	Fig. <b>3</b>



## 5.0 REGIONAL GEOLOGY

Government mapping of the general geology in the Iskut River area (Kerr, 1929, GSC Maps 9-1957 and 1418-1979) has proved to be incomplete and unreliable. Subsequent mineral exploration studies have greatly enhanced the lithological and stratigraphic knowledge of this geo-entity known as the Stewart Complex (Grove, 1986).

Grove (1986) defines the Stewart Complex in the following manner:

"The Stewart Complex lies along the contact between the Coast Plutonic Complex on the west, the Bowser Basin on the east, Alice Arm on the south and the Iskut River on the north."

Within the Stewart Complex the oldest rock unit consists of Paleozoic crinoidal limestone overlying metamorphosed sedimentary and volcanic members. This oceanic assemblage has been correlated with the Cache Creek Group.

Unconformably overlying the Paleozoic limestone unit are Upper Triassic Hazelton Group island arc volcanics and sediments. These rocks have informally been referred to as the "Snippaker Volcanics." Grove (1981) correlates this assemblage to the Unuk River Formation of the Stewart Complex whereas other writers match this group with the time equivalent Stuhini Volcanics. Monotis fossils have been recognized on the north slope of Snippaker Peak and west of Newmont Lake, 20 km to the north, giving an age Late Triassic. It is within these rocks that Skyline's Stonehouse Gold and Inel deposits occur (Figure 3).

Grove reports an unconformable contact between Carboniferous and Middle Jurassic strata on both sides of Snippaker Ridge, north of Snippaker Peak. The same unconformable relationship between these major rock units appears to extend from Forrest Kerr Creek west, along the Iskut River, to the Stikine River junction. Present interpretation suggests an east-west trending thrust along the axis of the Iskut River which, like the King Salmon Thrust Fault, pushed up and over to the south.

Following the Iskut River thrust faulting, the entire region was overlain by Middle Jurassic Hazelton Group volcanic-sedimentary rocks named the Betty Creek Formation by Grove (1986).

The batholithic Coast Plutonic Complex intrusions in the Iskut region are of Cretaceous and Tertiary age. Composition varies from quartz monzonite and granodiorite to granite. Satellitic subvolcanic acidic porphyries may be important in the localization of mineralization.

Quaternary and Tertiary volcanics occur to the east along the Iskut River near Forrest Kerr Creek and north at Hoodoo Mountain.

#### 6.0 LOCAL GEOLOGY

Outcrop exposure on the southern parts of the Stu 4 & 5 claims is less than 5% due to extremely dense undergrowth brush and devil's club in the river bottom level of the Iskut River. To the south on the claims, steep and rugged topography inhibits access. As a result, geological mapping of units was only able to be carried out in a general nature while prospecting by the author.

The oldest unit on the property appears to be Paleozoic massive white to grey limestone in fault contact with younger Mesozoic sedimentary and volcanic rocks. A thick sequence of greywacke/siltstone/argillite/quartzite appears to be overlain by younger andesite to andesite agglomerate. The youngest rocks found on the property occur along the Iskut River in the north of the claims area and are comprised of Cenozoic Tertiary basalt flows. Small intrusive plugs of dioritic composition are found within the andesite and locally in contact with limestone.

## 7.0 MINERALIZATION

During the 1987 field season, a total of 69 rock chip (Figure 4), 293 soil (Figure 5), 2 silt and 7 heavy mineral concentrate samples were collected from the Hector Stu 4 & 5 mineral claims.

Near the 200 metre elevation level on the Stu 4 mineral claim a soil anomaly measuring approximately 100 metres by 100 metres was located on two separate contour soil geochemistry traverses. Geochem assay values are listed below:

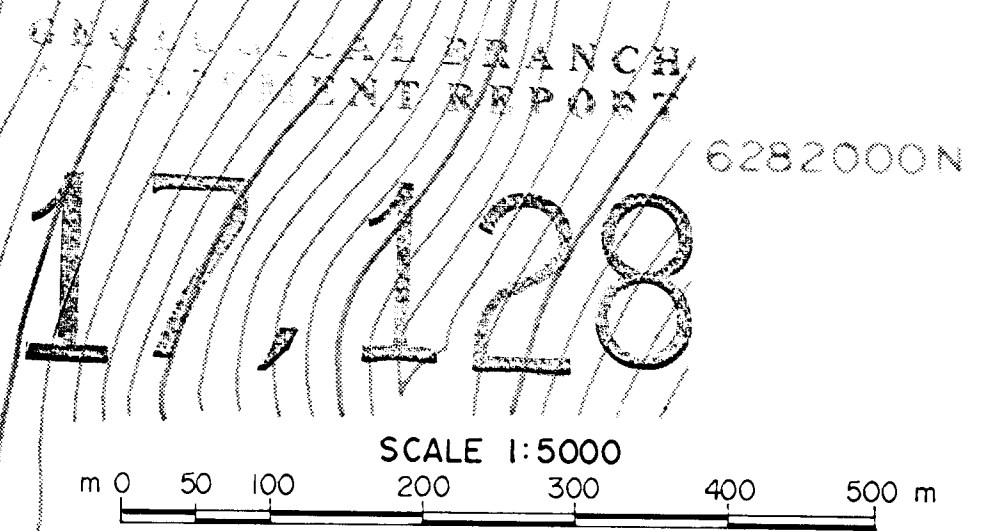
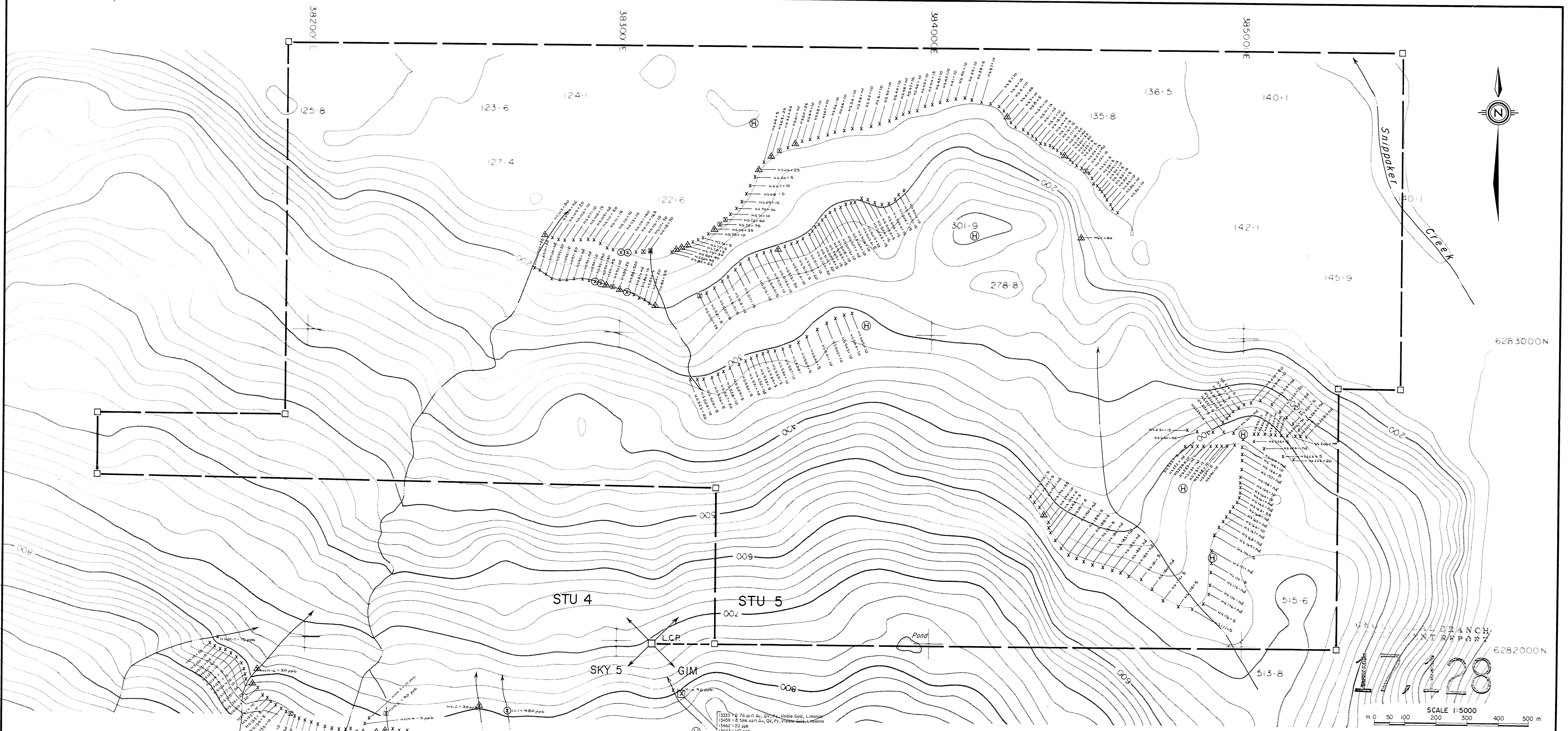
<u>Sample Number</u>	<u>Gold</u> (ppb)
HS 88	520
HS 89	25
HS 91	45
HS 92	130
HS 93	190
HS 114	140
HS 115	165
HS 117	70
HS 118	70

In addition, several anomalous spot high gold soil values were identified along the various geochemical survey traverses.

These same Mesozoic rocks host auriferous quartz veining found on Kyle Resources Inc.'s GIM claim near the Hector-Kyle Legal Corner Post. Trenched rock chip samples obtained by the author from this vein assayed 3.707 oz/ton gold.

Significant gold/sulphide mineralization in quartz veining was also discovered in 1987 approximately 400 metres southwest of the Legal Corner Post on Hector's Sky 4 & 5, Spray 1 & 2 mineral claims. On this property, an auriferous zone extends for 300 metres and occurs within a prominent structure which possesses a strike length greater than 1000 metres.





13339 = 2.76 oz/t Au, 0.7% Visible Gold, Limonite  
 13459 = 0.386 oz/t Au, 0.1% Visible Gold, Limonite  
 13462 = 20 ppb  
 13463 = 10 ppb  
 13464 = 3.707 oz/t Au  
 13465 = 1.935 oz/t Au  
 13466 = 0.365 oz/t Au  
 13467 = 4.15 ppb  
 13468 = 960 ppb

- LEGEND**
- △ 25-49 ppb Au
  - 50-100 ppb Au
  - 100 ppb Au
  - x Soil sample location site
  - ⊕ Helicopter Pad

**HECTOR RESOURCES INC.**

**STU 4 & 5 CLAIM GROUP  
SILT, HEAVY MINERAL  
CONCENTRATE & SOIL  
GEOCHEMISTRY MAP**

LIARD MINING DIVISION, B.C.

**PAMICON DEVELOPMENTS LTD.**

Drawn: J.W.	Checked: S.Todoruk	Date: Feb. 1988	FIGURE 5
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Approximately 400 to 500 metres to the west of the Stu 4 & 5 property, Tungco Resources Corp. discovered high-grade gold on their Golden Arrow Zone. Rock chip samples assayed greater than 3.0 oz/ton gold and the zone presently has a strike length of 25 metres.

## 8.0 DISCUSSION AND CONCLUSIONS

The Hector Stu 4 & 5 mineral claims are underlain by Mesozoic Unuk River Formation volcanic andesite to andesite agglomerate and sedimentary grey-wacke/siltstone/argillite/quartzite which in places are in fault contact with Paleozoic limestone units. Small dioritic intrusive plugs have been mapped in the northern area of the claims.

In the Iskut River area, this formation hosts several important gold deposits (Skyline Explorations Ltd., Delaware/Cominco Resources, Inel Resources Ltd.) as well as numerous promising prospects. Three main types of mineralization have been discovered in the area:

1. Gold/silver/copper in quartz/carbonate veins (Skyline, Delaware/Cominco, Tungco, Hector).
2. Volcanogenic massive sulphide with gold/silver/zinc/copper (Inel, Western Canadian Mining Corp.).
3. Skarn type auriferous massive pyrite + magnetite (Gulf International Minerals Ltd., Consolidated Sea-Gold Corp.).

On the Stu 4 & 5 property, a soil anomaly measuring approximately 100 metres by 100 metres with values ranging from 50 to 200 ppb gold was discovered on the Stu 4 claim block on two separate contour traverse lines. In addition, several other spot high gold soil values were obtained from other survey lines on the claims.



## 9.0 RECOMMENDATIONS

For the 1988 field season, it is recommended that continued prospecting, soil sampling and geological mapping be carried out on the Hector Stu 4 & 5 mineral claims. Because of the extremely dense bush it is strongly recommended that survey grid lines be established using linecutters in an attempt to accurately locate station coordinates. Several helicopter pads will also be required to be constructed to allow considerably better access to the more difficult and isolated areas on the claims.

The immediate focus of attention for the upcoming exploration program should be on investigating the 1987 100 metre by 100 metre soil anomaly on the Stu 4 claim block.

Prospecting and soil sampling should also be concentrated toward the northwest corner of the Stu 4 claim block in a search for similar high-grade gold mineralization to that which was found on the nearby Tungco Golden Arrow Zone.

A detailed airborne geophysical survey should be flown across the entire property with 250 metre spaced lines in a north-south direction to help define major controlling structures and additional mineralization.

A program of trenching should then be undertaken to test anomalies and exposed showings of interest.

A camp should be constructed in close proximity to the property and the project would be reliant upon a helicopter for support.

## 9.1 BUDGET

PHASE I

## WAGES

Project Geologist 14 days @ \$350/day	\$ 4,900	
Prospector 14 days @ \$225/day	3,150	
Helpers (geophysics, soil sampling, trenching) 2 x 14 days @ \$175/day	4,900	
Cook 14 days @ \$175/day	<u>\$ 2,450</u>	
		\$ 15,400

## ANALYSES

Assays		
125 rock chip samples @ \$18/sample	\$ 2,250	
500 soil samples @ \$15.50/sample	<u>7,750</u>	
		10,000

AIRBORNE GEOPHYSICAL SURVEY 4,050

LINECUTTING AND HELICOPTER PAD CONSTRUCTION 7,000

SUPPORT - 100 man days @ \$125/man day 12,500

TRENCHING SUPPLIES 1,000

CAMP CONSTRUCTION 4,000

EQUIPMENT RENTALS - VLF, magnetometer, drill 1,000

## TRANSPORTATION

Vehicle Rental 4 days @ \$50/day	\$ 200	
Airfares, fixed wing, helicopter	<u>10,000</u>	
		10,200

REPORT 2,500

Subtotal 67,650

Contingency @ 10% 6,750

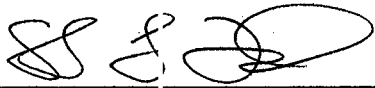
Management @ 15% (expenses only) 7,800

TOTAL \$ 82,200

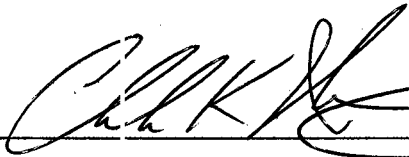
PHASE II

Contingent upon the success of the Phase I program, it is estimated that an additional \$115,000 should be made available for a diamond drilling program.

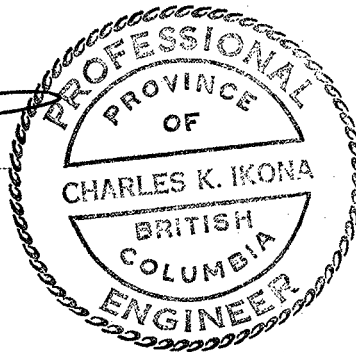
Respectfully submitted,



Steve L. Todoruk, Geologist



Charles K. Ikona, P.Eng.



**APPENDIX I**

**BIBLIOGRAPHY**

## BIBLIOGRAPHY

Caulfield, D.A. and C.K. Ikona (1987): Geological Report on the GIM Mineral Claim.

Delaware Resources Corp.: Progress Report, Snip Prospect, November 19, 1987.

Gulf International Minerals Ltd.: Annual Report, February 1988.

Skyline Explorations Ltd.: Annual Report 1987.

Todoruk, S.L. and C.K. Ikona (1987): Geological Report on the Stu 1 & 2 Mineral Claims.

Todoruk, S.L. and C.K. Ikona (1987): Geological Report on the Gab 11 & 12 Mineral Claims and Stu 8 & 9 Mineral Claims.

Todoruk, S.L. and C.K. Ikona (1987): 1987 Summary Report on the Sky 4 & 5 and Spray 1 & 2 Claims.

Todoruk, S.L. and C.K. Ikona (1987): Geological Report on the Stu 4 & 5 Mineral Claims.

Tungco Resources Corporation: News release dated December 1, 1987.

Western Canadian Mining Corp.: News release dated November 12, 1987.

**APPENDIX II**

**COST STATEMENT**

## COST STATEMENT

### WAGES

S. Todoruk - 4 days @ \$350	\$ 1,400.00	
P. Schnare - 3 days @ \$175	525.00	
K. Wadsworth - 9 days @ \$175	1,575.00	
R. Gibson - 9 days @ \$175	1,575.00	
C. Vanderveen - 2 days @ \$175	350.00	
M. Say - 1 day @ \$175	175.00	
R. Cournoyer - 9 days @ \$225	2,025.00	
W. Raven - 1 day @ \$350	350.00	
R. Riedel - 7 days @ \$175	1,250.00	
C. Ikona - 1 day @ \$450	450.00	
R. Darney - 1 day @ \$400	400.00	
Management - 5 days @ \$250	<u>1,250.00</u>	
<b>TOTAL WAGES</b>		<b>\$11,300.00</b>

### SUPPORT COST

#### Man Day Support

Management - 5 days		
Crew - 45 days		
NMH - <u>10 days</u>		
60 days @ \$125	\$ 7,500.00	

#### Equipment and Expendible Field Supplies

45 days @ \$30	<u>1,350.00</u>	
		8,850.00

### SUBCONTRACT

#### Aviation

Helicopter	\$ 5,214.50	
Fixed Wing	2,009.78	
Airstrip User Fee	<u>1,000.00</u>	
		8,224.28

**EXPENSES**

Equipment Rental			
Truck	\$	500.00	
ATV		<u>500.00</u>	
			1,000.00
Air Fare			350.00
Freight			200.00
Orthophotos			1,154.16
Communication			100.00
Assays and Geochem		<u>3,530.18</u>	
			6,334.34
Management Fee on Expenses @ 15%			950.15
Management Fee on Subcontract @ 10%			<u>822.43</u>
<b>TOTAL THIS PROGRAM</b>			<u>\$36,481.20</u>



**APPENDIX III**

**ASSAY CERTIFICATES**



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

December 23, 1987

TO: Steve Todoruk  
PAMICON DEVELOPMENTS  
711 - 675 W. Hastings St.  
Vancouver, B.C. V6B 1N4

FROM: Vangeochem Lab Limited  
1521 Pemberton Avenue  
North Vancouver, British Columbia  
V7P 2S3

SUBJECT: Analytical procedure used to determine Aqua Regia soluble gold in geochemical samples.

## 1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

## 2. Method of Digestion

- (a) 5.00 to 10.00 grams of the minus 80-mesh portion of the samples were used. Samples were weighed out using an electronic micro-balance and deposited into beakers.
- (b) Using a 20 ml solution of Aqua Regia (3:1 solution of HCl to HNO<sub>3</sub>), each sample was vigorously digested over a hot plate.
- (c) The digested samples were filtered and the washed pulps were discarded. The filtrate was then reduced in volume to about 5 ml.



# VANGEOCHEM LAB LIMITED

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1630 PANDORA ST.  
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(604) 251-5656

(d) Au complex ions were then extracted into a di-isobutyl ketone and thiourea medium (Anion exchange liquids "Aliquot 336").


(e) Separatory funnels were used to separate the organic layer.

### 3. Method of Detection

The detection of Au was performed with a Techtron model AAS Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out onto a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values, in parts per billion, were calculated by comparing them with a set of gold standards.

### 4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

  
\_\_\_\_\_  
Eddie Tang  
VANGEOCHEM LAB LIMITED

*for*



# VANGEOCHEM LAB LIMITED

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BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

December 23, 1987

TO: Steve Todoruk  
PAMICON DEVELOPMENTS  
711 - 675 W. Hastings St.  
Vancouver, B.C. V6B 1N4

FROM: Vangeochem Lab Limited  
1521 Pemberton Avenue  
North Vancouver, British Columbia  
V7P 2S3

SUBJECT: Analytical procedure used to determine gold by fire assay method and detect by atomic absorption spectrophotometry in geological samples.

## 1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

## 2. Method of Extraction

- (a) 20.0 to 30.0 grams of the pulp samples were used. Samples were weighed out using a top-loading balance and deposited into individual fusion pots.
- (b) A flux of litharge, soda ash, silica, borax, and, ether flour or potassium nitrite is added. The samples are then fused at 1900 degrees Fahrenheit to form a lead "button".
- (c) The gold is extracted by cupellation and parted with diluted nitric acid.



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(d) The gold bead is retained for subsequent measurement.

### 3. Method of Detection

- (a) The gold bead is dissolved by boiling with aqua regia solution, then diluted with deionized water to 10 ml volume.
- (b) The detection of gold was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. The gold values, in parts per billion, were calculated by comparing them with a set of known gold standards.

### 4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. David Chiu and his laboratory staff.



---

David Chiu  
VANGEOCHEM LAB LIMITED



# VANGEOCHEM LAB LIMITED

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1521 PEMBERTON AVE.  
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December 23, 1987

TO: Steve Todoruk  
PAMICON DEVELOPMENTS  
711 - 675 W. Hastings St.  
Vancouver, B.C. V6B 1N4

FROM: Vangeochem Lab Limited  
1521 Pemberton Avenue  
North Vancouver, British Columbia  
V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble for 28 element scan by Inductively Coupled Plasma Spectrophotometry in geochemical silt and soil samples.

## 1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

## 2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were digested with a 5 ml solution of HCL:HN03:H20 in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with dimineralized water and thoroughly mixed.



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### 3. Method of Analyses

The ICP analyses elements were determined by using a Jarrel-Ash ICAP model 9000 directly reading the spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto disk.

### 4. Analysts

The analyses were supervised or determined by either Mr. Eddie Tang, and, the laboratory staff.

A handwritten signature in black ink, appearing to be 'Eddie Tang', written over a horizontal line.

Eddie Tang  
VANGEOCHEM LAB LIMITED



# VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 870776 GA

JOB NUMBER: 870776

PANICOM DEVELOPMENT LTD.

PAGE 1 OF 1

SAMPLE #	Au
	ppb
13301	nd
13302	10
13303	nd
13304	nd
13305	nd
13306	nd
13307	nd
13308	nd
13309	nd
13310	nd
13311	15
13312	nd
13313	nd
13314	nd
13315	nd
13316	nd
13317	nd
13318	nd
13319	5
13320	30
13321	nd
13322	nd
13323	nd
13353	nd
13354	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: PAMICON DEVELOPMENTS  
 ATTENTION: STEVE TODORUK  
 PROJECT: HEC

REPORT#: PA  
 JOB#: 870776  
 INVOICE#: NA

DATE RECEIVED: 87/07/20  
 DATE COMPLETED: 87/07/27  
 COPY SENT TO:

ANALYST *W. K. ...*

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
13301	.1	1.30	ND	ND	36	3	.90	.1	12	89	85	1.90	.02	.89	301	4	.04	23	.04	10	ND	ND	ND	ND	34	ND	ND	50
13302	.3	1.06	6	ND	9	ND	.89	.3	19	138	98	2.13	.02	.88	238	3	.06	33	.02	29	ND	ND	ND	ND	26	ND	ND	49
13303	.3	1.01	6	ND	10	ND	1.01	.2	9	29	96	1.59	.04	.61	266	1	.05	18	.03	13	ND	ND	ND	ND	33	ND	ND	72
13304	.1	.91	ND	ND	11	ND	2.84	.2	11	22	50	1.55	.04	.56	232	1	.04	13	.05	19	ND	ND	ND	ND	39	ND	ND	48
13305	.1	.93	ND	ND	29	ND	1.32	.5	4	9	56	1.99	.05	.83	673	1	.08	5	.09	15	ND	ND	ND	ND	47	ND	ND	134
13306	.1	2.12	10	ND	9	5	2.08	.2	19	19	71	4.63	.03	2.31	999	2	.16	14	.08	48	ND	ND	ND	ND	22	ND	ND	77
13307	.2	.25	6	ND	3	ND	.19	.4	3	34	64	.88	.01	.17	110	1	.03	8	.01	12	ND	ND	3	ND	7	3	ND	59
13308	.1	3.61	ND	ND	18	ND	2.34	.3	28	98	75	3.81	.02	2.77	652	3	.11	92	.04	ND	ND	ND	ND	2	67	ND	ND	89
13309	.3	.59	10	ND	3	ND	.79	.2	10	34	200	1.74	.01	.46	243	2	.06	12	.01	20	ND	ND	ND	ND	35	ND	3	58
13310	.1	.85	4	ND	22	ND	.76	.9	6	15	83	1.59	.05	.63	401	1	.07	4	.07	15	ND	ND	ND	ND	20	ND	ND	138
13311	.1	3.81	3	ND	12	ND	2.56	.1	35	165	71	4.19	.01	3.46	788	3	.12	109	.06	6	ND	ND	ND	3	73	ND	ND	72
13312	.1	.71	ND	ND	24	ND	.65	.4	4	13	32	1.44	.05	.35	305	1	.02	1	.08	11	ND	ND	ND	ND	31	ND	ND	30
13313	1.1	.66	8	ND	12	ND	.19	.4	5	17	271	4.15	.03	.39	204	1	.11	4	.04	24	ND	ND	ND	ND	28	ND	ND	65
13314	.1	.80	4	ND	20	ND	.30	.1	4	18	97	3.20	.03	.45	277	1	.10	2	.07	20	ND	ND	ND	ND	18	ND	ND	100
13315	.1	.45	3	ND	1	ND	.82	.1	35	7	596	10.18	.01	.15	473	ND	.24	5	.02	10	ND	ND	ND	1	24	ND	ND	13
13316	.1	.58	ND	ND	19	ND	.75	.2	4	13	7	1.57	.04	.19	220	1	.02	2	.10	11	ND	ND	ND	ND	37	ND	ND	17
13317	.1	.64	4	ND	20	ND	.82	.1	4	12	27	1.77	.07	.22	256	1	.02	2	.10	11	ND	ND	ND	ND	49	4	ND	14
13318	.1	.46	ND	ND	21	ND	.59	.5	3	13	33	.82	.03	.14	185	1	.01	2	.09	16	ND	ND	ND	ND	35	ND	7	22
13319	.1	.65	ND	ND	19	ND	.83	.1	5	11	115	1.43	.03	.13	134	ND	.01	2	.08	7	ND	ND	ND	ND	29	ND	8	8
13330	.3	.61	9	ND	21	ND	.64	.1	6	10	126	1.56	.03	.18	223	1	.02	2	.09	9	ND	ND	ND	ND	19	ND	ND	23
13321	.1	1.03	9	ND	13	ND	1.04	.4	24	48	182	3.55	.04	.73	529	1	.09	33	.27	14	ND	ND	ND	ND	48	ND	ND	58
13322	.1	1.07	56	ND	10	ND	.41	.1	19	24	94	3.72	.01	.96	518	1	.10	11	.08	9	ND	ND	ND	ND	24	ND	ND	38
13323	.1	1.96	12	ND	6	3	1.73	2.9	17	28	43	3.94	.01	2.17	1299	2	.39	16	.08	61	ND	ND	ND	1	70	ND	ND	763
13351	.1	.94	6	ND	9	ND	1.07	.4	16	19	122	2.74	.03	.22	151	12	.05	21	.11	9	ND	ND	ND	ND	44	ND	ND	44
13352	.2	1.31	ND	ND	12	ND	1.25	.2	16	12	122	3.06	.07	.27	198	7	.05	21	.11	8	ND	ND	ND	ND	54	ND	ND	45
13353	.3	1.67	3	ND	26	12	.54	.1	33	9	16	6.86	.10	1.74	566	2	.17	5	.08	13	ND	ND	ND	ND	15	ND	ND	38
13354	.3	1.08	7	ND	17	5	.25	.1	9	22	38	3.99	.03	1.25	616	205	.11	4	.03	12	ND	ND	3	ND	10	ND	ND	49
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



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BRANCH OFFICE  
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(604) 251-5656

REPORT NUMBER: 870779 GA

JOB NUMBER: 870779

PANICON DEVELOPMENT LTD.

PAGE 1 OF 3

SAMPLE #	Au ppb
H.S.- 1	40
H.S.- 3	10
H.S.- 4	15
H.S.- 5	10
H.S.- 6	45
H.S.- 7	10
H.S.- 8	5
H.S.- 9	10
H.S.- 10	15
H.S.- 11	nd
H.S.- 12	10
H.S.- 13	20
H.S.- 14	5
H.S.- 15	5
H.S.- 16	15
H.S.- 17	10
H.S.- 18	20
H.S.- 19	40
H.S.- 20	20
H.S.- 21	20
H.S.- 22	5
H.S.- 23	5
H.S.- 24	15
H.S.- 25	10
H.S.- 26	15
H.S.- 27	5
H.S.- 28	5
H.S.- 29	15
H.S.- 30	10
H.S.- 31	5
H.S.- 32	15
H.S.- 33	5
H.S.- 34	10
H.S.- 35	10
H.S.- 36	10
H.S.-113	30
H.S.-113 A	10
H.S.-114	10
H.S.-114 A	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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REPORT NUMBER: 870779 GA

JOB NUMBER: 870779

PANICON DEVELOPMENT LTD.

PAGE 2 OF 3

SAMPLE #	Au ppb
H.S.-500	5
H.S.-500 A	10
H.S.-501	10
H.S.-501 A	15
H.S.-502	15
H.S.-502 A	15
H.S.-503	15
H.S.-503 A	5
H.S.-504	15
H.S.-504 A	15
H.S.-505	10
H.S.-505 A	5
H.S.-506	10
H.S.-506 A	10
H.S.-507	nd
H.S.-507 A	10
H.S.-508	10
H.S.-508 A	15
H.S.-509	15
H.S.-509 A	5
H.S.-510	20
H.S.-510 A	20
H.S.-511	10
H.S.-511 A	20
H.S.-512	5
H.S.-512 A	10
H.S.-515	10
H.S.-517	15
H.S.-518	10
H.S.-519	5
H.S.-520	5
H.S.-521	5
H.S.-522	75
H.S.-523	20
H.S.-524	10
H.S.-525	5
H.S.-526	5
H.S.-527	20
H.S.-528	10

DETECTION LIMIT

5

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# VANGEOCHEM LAB LIMITED

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VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 870779 6A

JOB NUMBER: 870779

PANICON DEVELOPMENT LTD.

PAGE 3 OF 3

SAMPLE #	Au ppb
H.S.-329	5
H.S.-530	5
H.S.-533	5
H.S.-534	5
H.S.-536	10
H.S.-537	10
H.S.-539	5
H.S.-540	5
H.S.-541	10
H.S.-542	10
H.S.-543	10
H.S.-544	10
H.S.-545	10

DETECTION LIMIT

5

nd = none detected

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is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, X, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: PAMICON  
 ATTENTION:  
 PROJECT: HEC

REPORT#: PA  
 JOB#: 870779  
 INVOICE#: NA

DATE RECEIVED: 87/07/20  
 DATE COMPLETED: 87/08/05  
 COPY SENT TO:

ANALYST *W. Rivers*

SAMPLE NAME	MS PPH	AL I	AS PPH	AU PPH	BA PPH	BI PPH	CA I	CD PPH	CO PPH	CR PPH	CU PPH	FE I	K I	MG I	MN PPH	MO PPH	NA I	NI PPH	P I	PB PPH	PD PPH	PT PPH	SB PPH	SN PPH	SR PPH	U PPH	W PPH	ZN PPH
H.S.-1	.1	1.68	37	ND	75	9	.39	.3	18	13	61	4.03	.01	.83	954	5	.12	15	.10	27	ND	ND	ND	ND	35	ND	3	201
H.S.-3	.2	1.65	ND	ND	46	7	.62	1.8	27	17	227	5.18	.01	.33	4787	5	.14	11	.07	101	ND	ND	ND	ND	20	ND	24	218
H.S.-4	.3	3.47	ND	ND	39	7	.19	.1	11	26	31	5.06	.01	.25	330	2	.09	14	.16	25	ND	ND	4	ND	14	ND	ND	59
H.S.-5	1.6	1.54	ND	ND	72	14	.22	.1	12	19	38	2.70	.01	.10	367	1	.04	8	.25	26	ND	ND	ND	2	19	ND	5	59
H.S.-6	.3	.64	ND	ND	55	11	.24	.2	5	6	10	1.08	.01	.11	94	ND	.02	3	.11	10	ND	ND	ND	ND	32	ND	10	42
H.S.-7	2.4	1.21	3	ND	55	16	.14	.1	15	22	35	3.01	.01	.09	134	1	.04	7	.09	32	ND	ND	3	10	14	ND	ND	60
H.S.-8	.1	4.41	3	ND	95	5	.23	.1	30	14	37	3.62	.01	.20	1029	4	.05	15	.26	16	ND	ND	7	ND	25	ND	ND	72
H.S.-9	2.2	6.32	8	ND	65	14	.13	.1	21	43	40	7.82	.01	.19	200	4	.12	7	.12	35	ND	ND	9	5	8	ND	ND	72
H.S.-10	1.9	7.33	11	ND	45	14	.14	.1	20	42	40	8.20	.01	.24	197	5	.14	11	.12	38	ND	ND	11	ND	9	ND	ND	95
H.S.-11	1.3	2.04	ND	ND	54	12	.14	.1	12	22	34	3.84	.01	.13	303	1	.06	9	.18	28	ND	ND	3	ND	13	ND	ND	56
H.S.-12	1.6	3.50	5	ND	54	11	.17	.1	12	24	27	7.08	.01	.18	134	4	.12	5	.12	26	ND	ND	7	ND	15	ND	ND	64
H.S.-13	2.2	1.53	ND	ND	90	16	.38	.1	17	18	25	3.37	.01	.20	524	1	.05	6	.28	34	ND	ND	3	8	25	ND	6	57
H.S.-14	.3	2.36	ND	ND	90	5	.22	.1	9	18	26	3.34	.02	.20	658	1	.06	8	.41	26	ND	ND	ND	ND	19	3	ND	75
H.S.-15	.6	.98	ND	ND	49	7	.39	.2	8	8	19	1.78	.01	.20	213	ND	.02	6	.13	15	ND	ND	ND	ND	36	ND	7	39
H.S.-16	2.4	1.42	3	ND	32	13	.14	.1	14	21	30	3.87	.01	.10	125	2	.05	4	.17	40	ND	ND	ND	9	11	ND	3	32
H.S.-17	1.7	2.18	4	ND	29	15	.17	.1	13	22	26	4.03	.01	.25	121	2	.06	7	.09	25	ND	ND	3	2	16	ND	ND	38
H.S.-18	3.0	5.25	ND	ND	46	19	.13	.1	23	42	47	11.13	.01	.13	226	6	.18	8	.19	35	ND	ND	10	10	9	ND	ND	77
H.S.-19	3.3	4.87	5	ND	46	14	.14	.1	22	31	41	7.91	.01	.16	238	5	.12	4	.15	32	ND	ND	9	11	12	ND	ND	73
H.S.-20	.9	6.49	ND	ND	37	7	.12	.1	13	31	31	8.96	.01	.08	283	5	.16	3	.21	37	ND	ND	9	ND	9	ND	ND	119
H.S.-21	.6	3.60	8	ND	43	10	.17	.1	11	23	27	4.13	.01	.32	394	3	.07	7	.38	34	ND	ND	5	ND	15	ND	ND	81
H.S.-22	.9	6.75	9	ND	40	12	.20	.1	15	29	33	7.14	.01	.18	683	5	.13	9	.31	26	ND	ND	9	ND	13	ND	ND	99
H.S.-23	.1	2.48	ND	ND	62	5	.37	.1	9	17	41	3.77	.01	.36	3022	2	.08	12	.45	22	ND	ND	ND	ND	25	ND	ND	97
H.S.-24	.7	4.09	9	ND	75	7	.38	.1	9	19	43	4.24	.01	.14	441	3	.08	7	.25	19	ND	ND	6	ND	28	ND	ND	73
H.S.-25	1.7	1.79	4	ND	38	12	.23	.1	10	16	27	3.00	.03	.10	155	2	.04	4	.12	33	ND	ND	3	2	15	3	5	32
H.S.-26	1.9	7.41	5	ND	32	15	.12	.1	18	40	45	9.56	.01	.14	172	6	.16	3	.25	52	ND	ND	9	ND	7	ND	ND	71
H.S.-27	.2	1.24	ND	ND	79	7	.30	.2	9	16	34	3.07	.02	.19	1600	1	.06	7	.21	23	ND	ND	ND	ND	18	ND	ND	82
H.S.-28	.7	.95	3	ND	46	8	.31	.1	14	16	30	3.51	.01	.54	1304	1	.06	10	.24	21	ND	ND	ND	ND	20	ND	6	41
H.S.-29	.1	1.90	17	ND	122	ND	2.04	3.8	16	10	89	3.42	.01	.68	1709	4	.17	14	.18	13	ND	ND	ND	ND	46	ND	ND	413
H.S.-30	.1	2.61	33	ND	92	6	.45	.1	15	16	73	4.83	.01	1.10	818	8	.15	15	.13	21	ND	ND	ND	ND	47	ND	ND	255
H.S.-31	.9	2.01	44	ND	125	12	.23	1.0	12	15	62	4.76	.02	.45	572	7	.11	10	.08	33	ND	ND	3	ND	24	ND	ND	176
H.S.-32	.1	3.24	69	ND	80	6	.28	1.7	13	20	41	6.09	.01	.59	1261	8	.19	12	.10	29	ND	ND	5	ND	24	ND	ND	332
H.S.-33	.3	.84	9	ND	47	3	.23	.2	5	6	16	1.62	.02	.39	378	1	.04	4	.08	14	ND	ND	ND	ND	23	ND	3	66
H.S.-34	.8	1.02	25	ND	81	8	.32	.7	8	8	17	2.07	.03	.28	627	3	.04	5	.09	23	ND	ND	ND	ND	27	ND	ND	82
H.S.-35	.8	.87	5	ND	83	7	.47	.7	8	6	18	1.74	.01	.28	318	1	.03	6	.12	9	ND	ND	ND	ND	34	ND	3	73
H.S.-36	1.5	.79	5	ND	98	8	.44	.3	9	6	13	1.79	.01	.28	178	ND	.02	7	.12	11	ND	ND	ND	ND	42	ND	ND	47
H.S.-500	.9	1.34	5	ND	38	11	.06	.1	6	6	12	1.86	.01	.19	181	1	.02	2	.02	18	ND	ND	ND	ND	6	ND	3	20
H.S.-500A	1.8	5.23	21	ND	46	3	.04	.1	5	19	17	6.77	.05	.05	157	7	.12	6	.04	42	ND	ND	16	ND	5	ND	ND	103
H.S.-501	1.0	1.90	6	ND	37	7	.04	.1	9	15	24	8.01	.04	.07	138	6	.13	7	.03	46	ND	ND	8	7	5	ND	ND	59
H.S.-501A	.7	.68	7	ND	51	11	.24	.2	5	5	18	1.52	.02	.14	101	ND	.02	7	.04	8	ND	ND	ND	ND	19	3	ND	33
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
H.S.-502	.1	1.47	11	ND	62	ND	.12	.3	8	16	37	5.37	.01	.17	249	3	.10	9	.03	23	ND	ND	4	6	11	ND	ND	90
H.S.-502A	.2	4.57	17	ND	50	3	.08	.1	7	27	18	6.39	.02	.29	235	2	.13	15	.04	39	ND	ND	3	3	7	ND	ND	154
H.S.-503	.4	5.34	22	ND	33	ND	.10	.1	6	22	28	7.08	.02	.17	319	1	.13	7	.06	43	ND	ND	ND	1	10	ND	ND	141
H.S.-503A	1.6	6.18	27	ND	25	ND	.03	.1	4	25	34	7.63	.03	.22	210	2	.13	12	.07	45	4	ND	ND	ND	4	ND	ND	108
H.S.-504	.1	4.48	21	ND	39	ND	.08	.1	6	34	33	6.39	.02	.34	209	1	.11	19	.06	29	ND	ND	ND	1	10	ND	ND	73
H.S.-504A	.7	4.55	23	ND	27	ND	.04	.1	7	34	26	7.84	.03	.26	183	2	.13	15	.05	38	ND	ND	3	3	4	ND	ND	93
H.S.-505	.7	6.16	19	ND	33	ND	.08	.1	7	36	25	8.44	.03	.25	200	1	.14	11	.05	20	ND	ND	ND	1	0	ND	ND	01
H.S.-505A	1.2	1.81	5	ND	42	4	.19	.1	10	10	32	2.52	.03	.38	225	ND	.03	6	.07	38	ND	ND	ND	6	21	3	ND	34
H.S.-506	2.2	1.22	11	ND	35	5	.08	.1	11	11	29	3.84	.03	.17	232	1	.05	4	.04	62	ND	ND	3	13	9	6	3	35
H.S.-506A	1.8	1.35	7	ND	29	7	.05	.1	12	17	29	7.94	.03	.06	125	4	.13	1	.04	46	ND	ND	9	21	5	ND	ND	78
H.S.-507	.2	.67	11	ND	69	ND	.11	.4	5	4	35	2.34	.02	.08	73	2	.04	2	.04	17	ND	ND	ND	5	24	3	ND	37
H.S.-507A	.7	3.75	19	ND	32	ND	.08	.1	7	17	46	5.62	.04	.17	277	4	.11	7	.06	38	ND	ND	4	5	7	ND	ND	128
H.S.-508	.2	3.29	12	ND	28	ND	.13	.1	8	19	36	4.25	.01	.19	359	1	.07	9	.06	27	ND	ND	ND	2	12	ND	ND	61
H.S.-508A	.1	1.29	3	ND	31	ND	.15	.1	6	6	14	2.09	.01	.22	232	ND	.03	6	.12	8	ND	ND	ND	2	19	3	ND	28
H.S.-509	.1	2.21	14	ND	25	ND	.08	.1	5	21	17	5.82	.06	.15	168	3	.08	10	.04	30	ND	ND	6	5	7	4	ND	53
H.S.-509A	.1	4.41	21	ND	27	ND	.04	.1	6	28	22	6.93	.03	.25	181	3	.11	16	.04	30	ND	ND	ND	1	5	ND	ND	67
H.S.-510	.1	2.24	14	ND	24	5	.06	.1	8	22	31	7.76	.03	.17	197	2	.13	6	.05	28	ND	ND	6	4	8	ND	ND	54
H.S.-510A	.4	3.71	16	ND	46	5	.05	.1	10	27	31	8.58	.03	.20	193	5	.15	13	.04	46	ND	ND	5	8	5	ND	ND	117
H.S.-511	.2	8.51	29	ND	96	ND	.15	.1	16	22	278	6.09	.22	.16	1220	11	.04	18	.10	29	ND	ND	ND	ND	9	13	ND	242
H.S.-511A	15.8	2.54	5	ND	185	ND	2.04	.1	27	6	60	1.76	.06	.15	1540	ND	.01	10	.10	14	ND	ND	ND	ND	64	ND	ND	61
H.S.-512	.1	2.83	7	ND	221	ND	.16	.3	13	12	72	3.92	.03	.44	637	1	.07	15	.07	28	ND	ND	ND	ND	33	ND	ND	60
H.S.-512A	.1	5.28	16	ND	44	ND	.13	.1	10	26	84	7.29	.04	.32	385	1	.13	15	.08	30	ND	ND	ND	ND	12	ND	ND	87
H.S.-513	.1	3.77	10	ND	46	ND	.53	.1	10	25	35	5.34	.04	.48	505	ND	.10	22	.06	31	ND	ND	ND	2	13	ND	ND	93
H.S.-513A	.4	2.16	11	ND	42	3	.10	.1	10	13	27	5.82	.03	.28	461	1	.08	5	.05	34	ND	ND	4	6	11	ND	ND	48
H.S.-514	.1	1.52	12	ND	49	ND	.08	.1	4	20	14	4.67	.06	.08	93	1	.07	4	.02	43	ND	ND	6	5	8	6	3	54
H.S.-514A	.8	4.95	25	ND	40	ND	.05	.1	7	25	25	6.40	.07	.24	268	2	.12	12	.07	37	ND	ND	3	3	5	5	ND	149
H.S.-515	.1	1.47	4	ND	45	ND	.20	.1	10	8	29	3.55	.02	.32	620	ND	.06	6	.05	16	ND	ND	ND	6	17	5	ND	54
H.S.-517	.1	5.14	13	ND	58	ND	.13	.1	8	17	28	5.15	.02	.17	229	ND	.08	7	.05	37	ND	ND	ND	1	11	ND	ND	71
H.S.-518	.4	5.12	15	ND	72	ND	.30	.1	14	17	39	5.09	.11	.24	344	1	.10	21	.05	33	ND	ND	ND	1	15	ND	ND	214
H.S.-519	4.4	.80	ND	ND	41	3	.32	.2	7	5	11	1.64	.01	.20	146	ND	.02	6	.08	41	ND	ND	ND	5	28	ND	4	31
H.S.-520	.1	1.58	10	ND	33	4	.05	.1	5	17	15	4.14	.05	.19	106	3	.06	8	.02	20	ND	ND	ND	4	8	3	ND	30
H.S.-521	.2	1.64	8	ND	23	ND	.04	.1	5	15	13	3.89	.03	.12	125	2	.06	6	.02	20	ND	ND	5	6	6	6	ND	43
H.S.-522	.1	1.77	14	ND	36	5	.03	.1	4	6	16	3.54	.03	.12	90	2	.05	ND	.02	16	ND	ND	ND	3	6	ND	4	16
H.S.-523	.7	5.44	23	ND	27	ND	.08	.1	4	31	20	6.50	.08	.17	294	1	.12	10	.04	34	ND	ND	ND	ND	5	ND	ND	136
H.S.-524	.2	.98	6	ND	20	3	.07	.1	7	9	13	3.24	.05	.11	117	2	.04	5	.02	16	ND	ND	5	8	9	4	4	22
H.S.-525	.1	1.16	5	ND	59	ND	.02	.1	4	3	8	1.38	.04	.03	41	ND	.01	2	.02	7	ND	ND	ND	1	5	3	8	13
H.S.-526	.2	5.98	25	ND	17	ND	.04	.1	5	37	18	7.30	.01	.07	124	2	.12	5	.05	40	ND	ND	ND	2	5	ND	ND	39
H.S.-527	.4	4.72	19	ND	39	ND	.10	.1	6	22	19	4.80	.01	.29	242	1	.08	16	.05	29	ND	ND	ND	2	11	ND	ND	106
H.S.-528	.1	1.97	14	ND	24	4	.11	.1	6	11	24	5.69	.02	.34	288	11	.10	5	.05	24	ND	ND	ND	2	17	ND	ND	45
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
H.S.-529	.1	2.72	8	ND	29	5	.08	.1	7	9	15	5.45	.01	.44	353	11	.08	1	.04	21	ND	ND	ND	ND	20	ND	ND	29
H.S.-530	.1	3.24	10	ND	33	3	.08	.1	6	11	20	4.58	.01	.16	252	4	.07	2	.07	22	ND	ND	ND	ND	14	ND	ND	45
H.S.-533	.1	4.84	8	ND	14	ND	.02	.1	4	13	15	7.81	.01	.03	152	5	.11	ND	.04	46	ND	ND	12	1	3	ND	ND	43
H.S.-534	.1	.56	ND	ND	54	4	.16	.3	5	4	19	1.27	.01	.10	70	1	.01	2	.03	9	ND	ND	ND	ND	18	3	8	23
H.S.-536	.1	2.31	10	ND	92	ND	1.27	3.7	22	10	712	2.25	.22	.08	397	3	.07	10	.08	27	ND	ND	ND	ND	42	4	ND	516
H.S.-537	1.1	5.91	18	ND	27	ND	.04	.1	5	15	23	5.17	.17	.11	215	5	.07	7	.04	40	ND	ND	10	ND	3	4	ND	158
H.S.-539	.6	6.58	25	ND	43	6	.03	.1	6	14	78	5.07	.12	.16	419	1	.08	11	.04	37	ND	ND	11	ND	1	3	ND	114
H.S.-540	.1	1.75	4	ND	36	ND	.20	.1	6	15	30	4.15	.01	.22	220	2	.08	7	.04	23	ND	ND	ND	ND	13	ND	ND	92
H.S.-541	.1	4.91	19	ND	23	ND	.03	.1	5	28	26	7.09	.03	.25	233	2	.11	11	.04	28	ND	ND	6	ND	4	ND	ND	86
H.S.-542	.1	2.41	7	ND	22	3	.07	.1	5	22	16	5.69	.01	.12	128	2	.08	5	.03	23	ND	ND	ND	ND	6	ND	ND	33
H.S.-543	.1	.65	ND	ND	10	5	.03	.1	4	2	4	.80	.01	.08	96	ND	.01	ND	.01	5	ND	ND	ND	ND	4	6	12	9
H.S.-544	.1	2.45	7	ND	35	ND	.07	.1	5	29	19	7.53	.01	.16	149	3	.12	6	.04	29	ND	ND	ND	ND	6	ND	ND	30
H.S.-545	.1	5.16	20	ND	25	ND	.06	.1	3	19	20	5.14	.01	.15	199	2	.08	7	.04	35	ND	ND	8	ND	5	ND	ND	113
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



# VANGEOCHEM LAB LIMITED

**MAIN OFFICE**  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

**BRANCH OFFICE**  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 870783 6B

JOB NUMBER: 870783

PANICON DEVELOPMENT LTD.

PAGE 1 OF 1

SAMPLE #	Au
	ppb
13324	nd
13325	nd
13326	nd
13327	nd
13328	20
13329	nd
13330	290
13331	nd
13332	nd
13333	5
13334	5
13335	50
13336	30
13343	30
13344	5
13345	nd
13346	65

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



Director Stu Y. S.

**VANGEOCHEM LAB LIMITED**

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

**ICAP GEOCHEMICAL ANALYSIS**

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, NG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, --= NOT ANALYZED

COMPANY: PAMICON DEVELOPMENT  
 ATTENTION:  
 PROJECT: HEC

REPORT#: PA  
 JOB#: 870783  
 INVOICE#: NA

DATE RECEIVED: 87/7/21  
 DATE COMPLETED: 87/7/30  
 COPY SENT TO:

ANALYST W. Reeves

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
13324	.6	1.32	40	ND	37	8	.36	.1	34	7	237	6.45	.01	.95	550	2	.01	12	.06	28	ND	ND	ND	4	9	ND	ND	44
13325	.1	1.70	ND	ND	10	5	.87	.1	15	5	137	4.25	.01	.98	451	1	.01	4	.08	33	ND	ND	ND	ND	17	ND	ND	44
13326	.8	.62	33	ND	3	ND	.50	3.3	9	10	169	2.06	.02	.30	324	2	.01	1	.03	53	ND	ND	ND	1	42	7	ND	348
13327	.8	.92	13	ND	9	6	.37	3.8	6	18	135	2.12	.01	.68	535	1	.01	1	.05	104	ND	ND	ND	1	12	ND	ND	587
13328	1.0	1.28	9	ND	13	6	.26	.1	15	12	681	5.44	.01	1.09	645	42	.01	3	.09	21	ND	ND	ND	ND	17	ND	ND	81
13329	4.2	.58	ND	ND	7	4	.25	.1	10	27	102	2.02	.03	.32	279	4	.01	3	.04	23	ND	ND	4	2	21	9	6	55
13330	.1	3.31	ND	3	8	10	.42	.1	18	4	779	6.64	.01	2.89	1774	3	.01	1	.09	19	ND	ND	3	2	6	ND	ND	125
13331	4.0	1.48	31	ND	9	14	.34	.1	53	3	683	8.13	.01	1.69	777	7	.01	7	.08	43	ND	ND	ND	ND	11	ND	ND	120
13332	.1	1.75	ND	ND	64	7	.16	.1	24	12	57	4.93	.04	1.70	422	1	.01	4	.02	15	ND	ND	ND	2	7	ND	ND	34
13333	.1	.35	ND	ND	3	ND	.04	.1	2	22	60	2.53	.01	.23	188	1	.01	3	.02	11	ND	ND	ND	ND	4	6	ND	15
13334	.1	2.13	ND	ND	24	4	2.22	.1	22	9	95	4.39	.01	1.84	934	1	.01	15	.15	18	ND	ND	ND	3	57	ND	ND	75
13335	.1	2.94	ND	ND	18	6	1.48	.1	16	9	181	7.36	.01	2.33	2478	2	.01	13	.18	13	ND	ND	3	1	44	ND	ND	178
13336	.1	2.61	ND	ND	38	ND	2.67	.1	15	4	272	4.54	.01	2.12	1425	1	.01	14	.15	12	ND	ND	ND	ND	62	ND	ND	90
13337	.9	1.10	ND	ND	21	ND	1.07	.1	11	8	644	2.37	.05	.44	279	1	.01	4	.16	11	ND	ND	ND	5	48	ND	ND	25
13338	1.2	.52	ND	ND	4	5	.66	.1	7	44	231	1.68	.02	.18	138	1	.01	4	.13	15	ND	ND	ND	5	99	3	ND	15
13339	9.4	1.27	233	81	10	560	.20	.1	9	36	73	12.13	.01	.85	391	6	.01	1	.10	.58	ND	ND	4	ND	13	ND	ND	33
13340	.1	2.24	ND	13	54	7	.62	.1	8	59	36	14.79	.29	1.91	492	1	.01	34	.02	9	ND	ND	ND	ND	8	ND	ND	62
13341	.2	1.54	4	ND	15	5	.98	.1	32	25	544	4.45	.01	1.21	623	1	.01	9	.16	18	ND	ND	ND	3	52	ND	ND	53
13342	.1	1.80	ND	ND	12	6	.81	.1	23	25	286	5.54	.01	1.59	681	1	.01	6	.15	9	ND	ND	ND	4	41	ND	ND	57
13343	.1	2.48	ND	ND	29	ND	4.32	.1	17	9	328	5.07	.01	1.98	1344	1	.01	12	.20	5	ND	ND	ND	ND	128	ND	ND	99
13344	.1	.51	ND	ND	1431	3	.42	.1	4	64	6	1.31	.08	.33	495	ND	.01	8	.04	12	ND	ND	ND	ND	44	9	7	37
13345	.1	2.04	ND	ND	98	ND	2.39	8.6	41	17	143	4.68	.01	1.56	1840	2	.01	6	.18	32	ND	ND	ND	ND	64	ND	ND	343
13346	1.1	.17	208	ND	57	ND	.06	.1	2	120	46	1.81	.07	.04	135	1	.01	3	.04	161	ND	ND	3	ND	5	9	ND	75
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: E70795 GA

JOB NUMBER: 870795

PANICON DEVELOPMENT LTD.

PAGE 2 OF 4

SAMPLE #	Au ppb
HS-076	5
HS-077	5
HS-078	5
HS-079	30
HS-080	40
HS-081	45
HS-082	55
HS-083	25
HS-084	20
HS-085	5
HS-086	15
HS-087	nd
HS-088	520
HS-089	25
HS-090	nd
HS-091	45
HS-092	130
HS-093	170
HS-094	10
HS-095 ✓	nd
HS-096	nd
HS-097	20
HS-098	10
HS-099	20
HS-100	nd
HS-101	20
HS-102	20
HS-103	30
HS-104	nd
HS-105	20
HS-106	10
HS-107	10
HS-108	15
HS-109	nd
HS-110	20
HS-111	15
HS-112	10
HS-113	10
HS-114	140

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: E70795 GA

JOB NUMBER: 870795

PAMICON DEVELOPMENT LTD.

PAGE 3 OF 4

SAMPLE #	Au ppb
HS-115	65
HS-116	10
HS-117	70
HS-118	70
HS-119	10
HS-120	15
HS-121	nd
HS-122	20
HS-123	10
HS-124	5
HS-125	15
HS-126	10
HS-127	10
HS-128	nd
HS-129	25
HS-130	20
HS-131	10
HS-132	10
HS-133	5
HS-134	5
HS-135	10
HS-136	10
HS-137	60
HS-138	20
HS-139	5
HS-140	10
HS-141	10
HS-142	5
HS-143	10
HS-144	15
HS-145	20
HS-146	nd
HS-147	50
HS-148	45
HS-149	40
HS-150	30
HS-151	10
HS-152	10
HS-153	20

*major Ar + Zn*

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 870795 GA

JOB NUMBER: 870795

PAMICON DEVELOPMENT LTD.

PAGE 4 OF 4

SAMPLE #	Au	
H-Si-1	480	+ 30000
H-Si-2	30	
H-HM-1	90	
H-HM-2	90	+ 100000
H-HM-3	15	
H-HM-4	5	
H-HM-5	5	
H-HM-6	30	
H-HM-7	15	

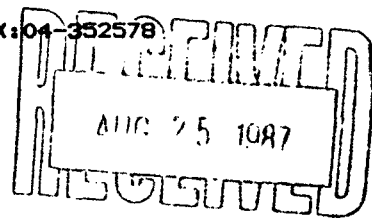
DETECTION LIMIT  
nd = none detected

5  
-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656



ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, NG, BA, PO, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -\* NOT ANALYZED

COMPANY: PAMICON  
 ATTENTION:  
 PROJECT: *Hector*

REPORT#: 870795PA  
 JOB#: 870795  
 INVOICE#: 870795NA

DATE RECEIVED: 87/07/21  
 DATE COMPLETED: 87/08/21  
 COPY SENT TO:

ANALYST: *D. Rees*

PAGE 1 OF 4

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
HS-037	.4	1.45	10	ND	45	10	.15	.1	19	22	28	5.10	.01	.22	216	1	.08	4	.10	28	ND	ND	8	21	13	ND	ND	55
HS-038	.3	2.99	10	ND	38	5	.16	.1	18	23	26	6.29	.01	.25	269	2	.11	5	.10	18	ND	ND	4	16	15	ND	ND	76
HS-039	.1	3.21	16	ND	45	ND	.30	.1	11	17	18	2.41	.02	.25	134	1	.01	5	.12	16	ND	ND	ND	9	32	ND	ND	30
HS-040	.1	4.26	11	ND	60	ND	.16	.1	13	24	38	5.00	.02	.17	431	1	.10	12	.20	26	ND	ND	ND	8	14	ND	ND	128
HS-041	.2	4.33	22	ND	34	ND	.07	.1	8	28	50	6.76	.02	.17	256	5	.16	10	.08	37	ND	ND	4	4	10	ND	ND	210
HS-042	.8	1.20	11	ND	17	4	.16	.1	10	11	15	3.30	.03	.19	158	4	.04	3	.05	27	ND	ND	7	12	17	6	ND	41
HS-043	.5	1.91	15	ND	33	ND	.15	.1	11	12	23	4.70	.02	.53	316	1	.08	4	.05	23	ND	ND	5	11	16	ND	ND	48
HS-044	.1	1.97	21	ND	56	ND	.11	.1	11	22	23	6.30	.02	.30	250	5	.11	8	.08	59	ND	ND	6	10	18	ND	ND	77
HS-045	.2	1.81	15	ND	20	5	.07	.1	13	16	28	6.91	.02	.70	326	2	.12	5	.06	24	ND	ND	6	14	9	ND	ND	36
HS-046	.1	4.05	23	ND	32	ND	.07	.1	5	21	18	6.75	.07	.16	282	3	.12	5	.08	35	ND	ND	5	7	6	ND	ND	101
HS-047	.1	3.82	20	ND	29	ND	.05	.1	6	16	46	6.35	.08	.20	262	8	.12	6	.04	40	ND	ND	8	9	6	ND	ND	170
HS-048	.6	.95	6	ND	77	ND	.19	.4	6	7	43	1.60	.03	.13	162	ND	.02	5	.06	8	ND	ND	5	5	20	ND	3	38
HS-049	.4	1.87	16	ND	55	ND	.10	.3	12	15	102	5.90	.04	.32	529	6	.13	7	.08	51	ND	ND	5	5	10	ND	ND	162
HS-050	.4	2.49	24	ND	31	ND	.10	.1	7	14	56	6.61	.08	.13	224	7	.12	7	.04	41	ND	ND	11	12	9	ND	ND	170
HS-051	.1	5.58	18	ND	25	ND	.10	.6	8	16	21	5.70	.12	.14	274	2	.16	9	.05	40	ND	ND	5	7	4	ND	ND	369
HS-052	.1	3.50	14	ND	113	ND	.67	.8	12	14	70	4.55	.11	.28	2446	2	.13	15	.07	25	ND	ND	ND	5	23	ND	ND	311
HS-053	.2	.86	12	ND	18	5	.07	.1	7	7	14	3.52	.06	.08	246	3	.05	ND	.03	27	ND	ND	8	15	6	4	ND	61
HS-054	.8	2.62	11	ND	28	4	.20	.1	15	11	29	5.74	.03	.83	747	1	.12	9	.07	21	ND	ND	ND	5	14	ND	ND	82
HS-055	.1	2.33	10	ND	56	ND	1.02	.1	25	13	49	4.17	.03	1.18	4096	ND	.06	16	.12	9	ND	ND	ND	8	64	ND	ND	54
HS-056	.1	3.29	19	ND	150	ND	1.08	3.2	23	22	166	4.01	.08	.80	4052	6	.12	33	.08	15	ND	ND	ND	3	33	ND	ND	304
HS-057	.1	3.70	17	ND	32	ND	.07	.1	6	16	21	5.02	.06	.14	199	4	.08	10	.07	30	ND	ND	5	8	12	ND	ND	77
HS-058	.1	1.54	8	ND	29	ND	.03	.1	5	14	12	6.37	.04	.08	129	4	.10	4	.06	25	ND	ND	9	12	7	ND	ND	41
HS-059	.1	4.05	10	ND	28	ND	.07	.1	13	22	17	7.56	.02	.63	181	1	.14	9	.05	13	ND	ND	ND	7	7	ND	ND	68
HS-060	.1	1.87	7	ND	22	ND	.07	.1	9	11	32	5.74	.03	.20	175	2	.08	3	.07	21	ND	ND	5	11	13	ND	ND	29
HS-061	.2	1.43	7	ND	106	ND	.47	.1	9	4	13	1.41	.03	.17	63	ND	.01	10	.10	5	ND	ND	ND	5	64	ND	ND	17
HS-062	.2	1.37	8	ND	16	5	.10	.1	13	12	36	3.74	.04	.26	174	2	.05	3	.04	47	ND	ND	4	15	11	ND	ND	35
HS-063	.3	2.42	6	ND	84	6	.47	.1	26	24	30	6.04	.01	.81	439	ND	.10	11	.10	14	ND	ND	ND	19	49	ND	ND	84
HS-064	.2	1.02	8	ND	57	ND	.56	.1	14	10	14	2.41	.02	.27	455	ND	.03	7	.11	9	ND	ND	ND	14	46	ND	3	44
HS-065	.1	.26	5	ND	137	ND	.77	.1	2	1	ND	.32	.01	.11	36	ND	.01	2	.05	ND	ND	ND	5	41	ND	3	44	
HS-066	.1	.97	ND	ND	73	ND	.92	.2	14	11	12	2.75	.01	.77	249	ND	.07	10	.07	6	ND	ND	ND	11	46	ND	3	96
HS-067	.5	1.79	5	ND	75	10	.23	.1	26	25	35	6.33	.01	.45	346	1	.11	9	.08	27	ND	ND	5	28	23	ND	ND	72
HS-068	.4	2.01	3	ND	37	7	.23	.1	18	22	25	3.45	.02	.27	149	1	.04	4	.13	22	ND	ND	ND	23	20	ND	ND	45
HS-069	.2	6.99	9	ND	53	ND	.23	.1	15	25	29	5.23	.01	.17	301	ND	.08	8	.16	17	ND	ND	ND	12	17	ND	ND	70
HS-070	.4	2.20	23	ND	184	ND	.26	.1	11	30	34	4.10	.01	1.06	675	1	.11	28	.13	29	ND	ND	ND	1	26	ND	ND	124
HS-071	.1	3.58	11	ND	84	ND	.67	1.1	23	26	26	6.33	.01	.81	662	1	.13	13	.15	14	ND	ND	ND	15	47	ND	ND	116
HS-072	.1	3.44	219	ND	91	ND	.35	2.7	17	22	116	4.94	.04	1.08	1739	7	.16	26	.13	38	ND	ND	ND	ND	30	ND	ND	317
HS-073	.2	2.99	107	ND	86	ND	.48	1.7	18	15	106	4.67	.04	.94	2641	7	.14	15	.16	26	ND	ND	ND	ND	38	ND	ND	277
HS-074	.2	2.66	225	ND	80	ND	.65	1.6	13	16	85	4.22	.03	.75	1387	6	.12	16	.15	22	ND	ND	ND	ND	33	ND	ND	251
HS-075	.1	1.12	5	ND	191	ND	1.16	.8	6	3	12	.93	.04	.17	908	1	.01	6	.08	4	ND	ND	ND	3	62	ND	3	91
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
HS-076	.1	3.72	4	ND	213	ND	1.88	.3	11	9	42	2.33	.05	.20	1741	4	.01	16	.13	7	ND	ND	ND	ND	63	ND	ND	170
HS-077	.1	1.88	ND	ND	270	ND	1.92	.8	13	10	28	2.87	.02	.52	2143	3	.01	10	.10	7	ND	ND	ND	ND	66	ND	ND	125
HS-078	.1	4.55	16	ND	149	ND	.48	.1	10	17	45	5.34	.10	.34	1879	7	.08	22	.08	26	ND	ND	ND	ND	19	ND	ND	270
HS-079	.1	1.58	43	ND	39	ND	.17	.1	12	15	14	4.10	.01	.38	1285	3	.08	9	.13	26	ND	ND	ND	ND	17	ND	ND	75
HS-080	.1	.73	14	ND	27	ND	.10	.1	2	3	2	.77	.01	.07	88	1	.01	ND	.03	3	ND	ND	ND	ND	17	ND	4	15
HS-081	.1	1.51	42	ND	54	ND	.15	.1	5	10	12	3.20	.01	.29	488	3	.07	4	.08	17	ND	ND	ND	ND	22	ND	ND	42
HS-082	.1	2.04	50	ND	122	ND	.64	.1	23	15	37	5.35	.01	1.25	1091	3	.13	15	.10	15	ND	ND	ND	ND	53	ND	ND	141
HS-083	.8	2.79	19	ND	30	ND	.04	.1	5	19	9	5.34	.01	.11	112	6	.08	5	.02	26	ND	ND	5	3	5	ND	ND	47
HS-084	.6	1.82	6	ND	33	ND	.11	.1	9	15	17	10.11	.01	.10	183	10	.17	1	.04	41	ND	ND	10	16	10	ND	ND	45
HS-085	.1	1.77	29	ND	262	ND	2.74	3.5	6	12	35	2.45	.01	.27	2536	7	.08	10	.07	8	ND	ND	ND	ND	120	ND	ND	217
HS-086	.2	1.56	12	ND	36	ND	.08	.1	9	8	12	3.22	.01	.28	184	3	.06	1	.02	13	ND	ND	ND	ND	11	ND	ND	28
HS-087	.2	3.66	43	ND	28	ND	.39	.5	28	15	150	7.00	.01	.43	692	6	.17	9	.12	144	ND	ND	ND	ND	17	ND	ND	143
HS-088	.1	1.86	18	ND	89	ND	2.22	.1	18	12	131	10.28	.01	.30	2037	10	.20	4	.08	25	ND	ND	ND	ND	19	ND	99	68
HS-089	.6	4.83	9	ND	27	ND	.70	.4	13	18	12	3.77	.03	.28	581	4	.10	18	.10	30	ND	ND	ND	ND	22	ND	ND	228
HS-090	.2	.68	5	ND	37	ND	.05	.6	3	7	6	1.68	.01	.05	73	4	.02	4	.02	10	ND	ND	ND	ND	9	ND	ND	17
HS-091	.1	3.00	11	ND	51	ND	.15	.1	4	18	11	3.70	.01	.29	213	4	.07	9	.04	19	ND	ND	ND	ND	12	ND	ND	50
HS-092	.1	.93	8	ND	58	ND	2.72	.1	3	14	27	7.66	.01	.10	1117	10	.15	5	.03	1	ND	ND	ND	ND	9	ND	92	26
HS-093	1.1	3.82	13	ND	67	ND	.08	.3	6	16	60	4.98	.01	.20	353	8	.11	10	.07	30	ND	ND	ND	ND	12	ND	ND	113
HS-094	.6	5.02	10	ND	48	ND	.07	.1	5	23	10	6.58	.01	.24	191	9	.13	13	.05	31	ND	ND	ND	1	6	ND	ND	102
HS-095	.1	.88	6	ND	97	ND	.35	.1	10	6	9	2.07	.01	.22	161	1	.04	4	.07	5	ND	ND	ND	5	35	ND	3	40
HS-096	.3	.71	ND	ND	32	ND	.25	.1	7	8	13	2.41	.01	.22	157	4	.03	6	.03	9	ND	ND	ND	5	17	ND	5	36
HS-097	1.3	3.94	13	ND	37	ND	.04	.1	8	17	16	4.12	.07	.23	356	5	.07	15	.03	22	ND	ND	ND	ND	4	ND	ND	115
HS-098	1.2	4.04	16	ND	39	ND	.03	.1	6	16	20	5.59	.08	.12	243	9	.10	10	.03	37	ND	ND	ND	1	3	ND	ND	124
HS-099	.1	4.26	13	ND	21	ND	.03	.1	4	15	13	4.41	.03	.15	164	6	.07	9	.06	26	ND	ND	ND	ND	4	ND	ND	84
HS-100	.6	1.92	14	ND	39	ND	.16	.1	5	11	10	3.75	.03	.15	246	6	.07	6	.04	24	ND	ND	3	1	10	ND	ND	51
HS-101	.1	1.72	ND	ND	57	ND	.16	.1	3	3	2	1.13	.01	.15	128	3	.01	4	.02	10	ND	ND	ND	ND	19	ND	3	14
HS-102	1.7	4.92	17	ND	47	ND	.05	.1	10	22	20	5.15	.08	.29	445	7	.08	19	.04	28	ND	ND	3	ND	5	ND	ND	144
HS-103	1.2	3.12	14	ND	48	ND	.07	.1	7	23	18	4.14	.10	.46	260	5	.07	28	.03	25	ND	ND	ND	ND	8	ND	ND	99
HS-104	.4	1.77	5	ND	124	3	.36	.5	11	30	20	3.16	.03	1.01	441	2	.08	33	.08	19	ND	ND	ND	ND	26	ND	ND	100
HS-105	.8	.75	3	ND	229	ND	.63	.8	8	10	14	1.63	.04	.48	506	1	.05	14	.08	7	ND	ND	ND	ND	40	ND	ND	90
HS-106	.1	2.36	21	ND	104	ND	.30	.1	19	40	40	4.90	.04	1.54	1372	3	.14	49	.13	37	ND	ND	ND	ND	19	ND	ND	152
HS-107	.6	1.18	3	ND	199	ND	1.70	2.4	11	6	14	2.11	.05	.34	1249	1	.08	7	.07	9	ND	ND	ND	ND	73	ND	ND	238
HS-108	.8	1.21	5	ND	67	3	.17	.3	7	10	10	2.65	.06	.22	187	6	.03	9	.06	20	ND	ND	ND	2	21	ND	ND	48
HS-109	.1	1.26	ND	ND	391	ND	3.52	.6	8	13	21	1.52	.05	.43	2788	6	.01	8	.10	3	ND	ND	ND	ND	170	ND	ND	49
HS-110	.3	2.37	8	ND	299	5	.44	.1	17	34	42	3.92	.07	1.06	559	4	.08	53	.04	11	ND	ND	ND	ND	29	ND	ND	89
HS-111	.1	3.44	11	ND	290	ND	1.56	.6	9	17	26	3.08	.13	.30	2403	8	.01	18	.12	19	ND	ND	ND	ND	57	6	ND	139
HS-112	1.1	.68	5	ND	68	3	.17	.8	5	4	11	1.41	.08	.07	96	5	.01	8	.03	15	ND	ND	5	2	22	4	ND	44
HS-113	.1	.64	ND	ND	179	ND	3.27	1.8	7	5	15	1.26	.05	.30	3051	4	.03	10	.08	3	ND	ND	ND	ND	124	ND	ND	74
HS-114	.1	2.81	6	ND	254	ND	1.82	.8	7	16	30	2.43	.11	.28	1930	6	.01	16	.14	16	ND	ND	ND	ND	65	5	ND	129
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

520  
25  
nd  
45

130  
190

140

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM	
HS-115	.1	2.42	60	ND	126	ND	.32	2.4	12	26	30	4.19	.05	.68	2394	8	.11	21	.14	23	ND	ND	ND	ND	20	ND	ND	184	
HS-116	.6	1.56	8	ND	44	5	.68	1.2	20	10	19	3.27	.04	.80	630	2	.04	13	.10	9	ND	ND	ND	ND	8	49	ND	ND	53
HS-117	.1	1.06	21	ND	219	5	.59	1.5	11	12	17	2.59	.05	.44	1844	3	.07	11	.06	16	ND	ND	ND	2	37	ND	ND	135	
HS-118	.1	2.00	108	ND	107	ND	1.08	2.4	14	15	65	3.59	.07	.83	1710	6	.13	22	.10	20	ND	ND	ND	ND	56	ND	ND	260	
HS-119	.6	.68	15	ND	28	ND	.08	.1	3	27	21	1.38	.05	.07	48	3	.01	14	.10	16	ND	ND	3	3	15	ND	ND	17	
HS-120	.7	.88	23	ND	11	ND	.03	.1	2	18	17	4.00	.07	.12	114	4	.05	9	.12	23	ND	ND	4	3	5	ND	ND	26	
HS-121	.7	.77	24	ND	35	ND	.07	.1	7	28	22	2.32	.06	.28	555	5	.02	27	.07	17	ND	ND	1	2	7	ND	ND	24	
HS-122	.4	.96	22	ND	9	ND	.03	.1	3	13	23	7.26	.08	.08	337	8	.10	11	.12	42	ND	ND	10	12	4	ND	ND	45	
HS-123	.4	3.08	65	ND	88	ND	.20	1.1	25	64	120	6.22	.07	1.20	2446	7	.17	87	.16	130	ND	ND	ND	ND	16	ND	ND	239	
HS-124	.4	3.45	66	ND	43	ND	.19	.8	17	32	59	6.41	.08	.68	1424	8	.13	28	.10	124	ND	ND	5	3	13	ND	ND	143	
HS-125	.1	2.87	124	ND	53	ND	.22	.1	34	42	56	7.94	.06	1.01	2856	10	.16	42	.11	67	ND	ND	5	ND	17	ND	ND	99	
HS-126	.8	.83	19	ND	31	3	.07	.2	6	14	12	2.12	.06	.19	263	4	.02	8	.07	32	ND	ND	4	9	9	3	ND	28	
HS-127	.3	2.22	28	ND	35	3	.07	.1	8	46	30	5.39	.06	.58	874	5	.10	24	.13	71	ND	ND	ND	2	6	ND	ND	61	
HS-128	.9	.85	19	ND	29	4	.19	.1	6	16	16	1.76	.07	.22	378	3	.02	10	.08	42	ND	ND	5	6	15	3	ND	31	
HS-129	3.6	4.54	148	ND	33	ND	.08	.1	5	45	43	5.54	.07	.29	267	7	.10	18	.11	125	ND	ND	ND	ND	7	ND	ND	65	
HS-130	2.1	2.99	35	ND	18	3	.04	.1	5	10	23	9.25	.11	.06	411	24	.13	4	.03	65	ND	ND	15	18	2	3	ND	69	
HS-131	.7	1.51	22	ND	44	ND	.24	.2	4	15	11	2.43	.07	.29	179	4	.04	12	.04	22	ND	ND	3	2	13	ND	ND	36	
HS-132	.4	2.20	17	ND	13	ND	.03	.1	5	15	20	7.50	.08	.07	509	9	.11	5	.07	41	ND	ND	8	11	3	ND	ND	37	
HS-133	.3	1.88	37	ND	59	ND	.17	.1	12	25	23	4.35	.07	.66	1299	4	.08	21	.14	53	ND	ND	ND	ND	13	ND	ND	113	
HS-134	1.1	1.54	33	ND	15	ND	.07	.1	5	21	24	5.50	.06	.30	241	6	.08	13	.08	38	ND	ND	4	3	7	ND	ND	40	
HS-135	.6	.59	17	ND	14	3	.08	.1	5	17	24	1.88	.07	.20	94	3	.02	14	.08	14	ND	ND	5	3	7	3	ND	20	
HS-136	.2	1.08	38	ND	45	3	.20	.1	6	45	32	4.95	.06	.38	403	4	.08	25	.14	31	ND	ND	5	ND	15	ND	ND	52	
HS-137	.5	2.54	37	ND	12	ND	.08	.1	5	27	46	6.73	.07	.29	379	8	.11	15	.10	51	ND	ND	5	5	8	ND	ND	53	
HS-138	.1	2.45	78	ND	124	ND	1.10	.8	18	21	70	4.33	.08	1.16	1936	3	.10	35	.20	40	ND	ND	ND	ND	71	ND	ND	201	
HS-139	.3	2.54	22	ND	44	ND	.16	.1	12	21	30	5.99	.08	.56	1119	7	.10	17	.08	36	ND	ND	ND	1	14	ND	ND	71	
HS-140	.1	2.04	25	ND	110	ND	1.23	.6	15	19	26	3.70	.07	.79	1439	7	.07	22	.14	31	ND	ND	ND	ND	74	ND	ND	194	
HS-141	.3	3.16	20	ND	19	ND	.08	.1	7	22	39	5.94	.08	.26	1285	9	.08	12	.11	44	ND	ND	5	6	6	ND	ND	63	
HS-142	.4	.56	10	ND	18	ND	.11	.1	5	12	8	1.18	.08	.17	878	2	.01	9	.16	20	ND	ND	3	3	9	3	ND	28	
HS-143	.5	1.12	24	ND	27	ND	.14	.1	10	16	12	4.16	.08	.20	931	7	.05	12	.08	36	ND	ND	5	13	11	ND	ND	54	
HS-144	.6	1.75	35	ND	43	ND	.17	.1	11	26	40	4.85	.07	.56	1960	7	.08	26	.19	39	ND	ND	3	3	15	ND	ND	76	
HS-145	.1	1.97	39	ND	24	ND	.14	.1	15	30	45	6.80	.06	.63	3471	5	.14	22	.44	39	ND	ND	6	ND	12	ND	ND	70	
HS-146	1.1	.91	19	ND	56	ND	.11	.1	5	15	5	1.45	.07	.34	594	2	.01	11	.07	30	ND	ND	4	ND	11	ND	ND	31	
HS-147	1.1	2.00	143	ND	97	3	.14	.1	16	18	46	6.12	.07	.86	2940	5	.13	16	.12	87	ND	ND	5	ND	12	ND	ND	101	
HS-148	.1	2.70	87	ND	150	ND	.25	3.2	29	35	122	5.50	.07	1.37	3503	5	.22	56	.13	179	ND	ND	ND	ND	20	ND	ND	476	
HS-149	.7	2.47	32	ND	43	ND	.04	.1	3	13	15	3.89	.05	.19	186	6	.06	5	.05	32	ND	ND	5	4	8	ND	ND	33	
HS-150	.6	1.86	20	ND	28	ND	.06	.1	4	11	23	5.29	.06	.10	223	6	.07	7	.06	38	ND	ND	8	9	7	ND	ND	32	
HS-151	.4	1.43	13	ND	99	4	.73	.2	4	10	15	3.85	.08	.13	345	6	.04	11	.05	27	ND	ND	5	4	26	ND	ND	55	
HS-152	.1	1.70	110	ND	210	ND	2.40	7.1	7	9	147	2.92	.07	.32	4754	7	.17	12	.13	19	ND	ND	ND	ND	113	ND	ND	516	
HS-153	.1	3.00	471	ND	109	ND	.45	.6	10	16	30	5.70	.12	.20	3002	16	.08	12	.10	38	ND	ND	4	8	29	ND	ND	236	
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1	

SAMPLE NAME	AG PPM	AL Z	AS PPM	AU PPM	BA PPM	BI PPM	CA Z	CD PPM	CO PPM	CR PPM	CU PPM	FE Z	K Z	HG Z	NN PPM	MO PPM	NA Z	NI PPM	P Z	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
H-SI-1	.1	2.92	33	ND	223	ND	1.49	4.0	16	13	172	4.23	.07	.83	2902	5	.13	18	.12	63	ND	ND	4	ND	87	ND	ND	376
H-SI-2	.1	3.49	31	ND	268	ND	1.27	1.2	14	15	68	4.47	.11	.45	2727	8	.07	17	.13	31	ND	ND	7	ND	84	ND	ND	196
H-HM-1	.1	2.37	28	ND	148	ND	.56	3.4	26	20	168	5.27	.06	1.24	1775	6	.21	41	.10	31	ND	ND	8	1	41	ND	ND	392
H-HM-2	2.6	2.53	105	ND	246	ND	.47	3.6	30	48	145	6.98	.06	1.78	2124	5	.39	81	.14	194	ND	ND	7	ND	39	ND	ND	743
H-HM-3	.9	2.30	50	ND	124	6	.53	.6	25	47	81	5.30	.08	1.76	1785	4	.17	84	.11	59	ND	ND	8	4	46	ND	4	226
H-HM-4	1.0	2.50	65	ND	114	7	.49	.5	31	62	136	5.87	.12	2.04	1765	6	.18	122	.14	79	ND	ND	14	ND	41	9	4	224
H-HM-5	.6	2.20	35	ND	111	ND	.67	.3	22	28	92	5.03	.08	1.74	1695	1	.16	47	.25	27	ND	ND	4	27	50	ND	ND	205
H-HM-6	.1	2.93	69	ND	172	ND	.48	1.1	35	95	218	6.48	.07	2.53	2445	3	.27	172	.14	105	ND	ND	6	ND	42	ND	ND	345
H-HM-7	.2	2.32	32	ND	394	ND	.48	.1	27	39	123	5.92	.07	1.77	2077	2	.18	79	.18	41	ND	ND	4	ND	46	ND	3	167
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1





# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 880155 GA

JOB NUMBER: 880155

PAMICON DEVELOPMENT LTD.

PAGE 1 OF 3

SAMPLE #	Au ppb
H.S.-154	nd
H.S.-155	10
H.S.-156	5
H.S.-157	nd
H.S.-158	nd
H.S.-159	10
H.S.-160	5
H.S.-161	nd
H.S.-162	nd
H.S.-163	25
H.S.-164	nd
H.S.-165	nd
H.S.-166	10
H.S.-167	nd
H.S.-168	nd
H.S.-169	nd
H.S.-170	5
H.S.-171	nd
H.S.-172	5
H.S.-173	nd
H.S.-174	nd
H.S.-175	nd
H.S.-176	5
H.S.-177	5
H.S.-178	5
H.S.-179	5
H.S.-180	nd
H.S.-181	5
H.S.-182	nd
H.S.-183	nd
H.S.-184	nd
H.S.-185	nd
H.S.-186	nd
H.S.-187	5
H.S.-188	5
H.S.-189	5
H.S.-190	nd
H.S.-191	5
H.S.-192	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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**BRANCH OFFICE**  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 880155 6A

JOB NUMBER: 880155

PAMICON DEVELOPMENT LTD.

PAGE 2 OF 3

SAMPLE #	Au
	ppb
H.S.-193	5
H.S.-194	10
H.S.-195	25
H.S.-196	nd
H.S.-197	5
H.S.-198	5
H.S.-199	10
H.S.-200	nd
H.S.-201	10
H.S.-202	nd
H.S.-203	nd
H.S.-204	20
H.S.-205	nd
H.S.-206	nd
H.S.-207	5
H.S.-208	nd
H.S.-209	nd
H.S.-210	5
H.S.-211	nd
H.S.-212	20
H.S.-213	nd
H.S.-214	10
H.S.-215	20
H.S.-216	5
H.S.-217	5
H.S.-218	nd
H.S.-219	nd
H.S.-220	nd
H.S.-221	5
H.S.-222	20
H.S.-223	5
H.S.-224	nd
H.S.-225	5
H.S.-226	nd
H.S.-227	nd
H.S.-228	5
H.S.-229	nd
H.S.-230	nd
H.S.-231	15

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample



# VANGEOCHEM LAB LIMITED

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NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

**BRANCH OFFICE**  
1630 PANDORA ST.  
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(604) 251-5656

REPORT NUMBER: 880155 6A

JOB NUMBER: 880155

PAMICON DEVELOPMENT LTD.

PAGE 3 OF 3

SAMPLE #	Au
	ppb
H.S.-232	5
H.S.-233	nd
H.S.-234	10
H.S.-235	nd
H.S.-236	nd
H.S.-237	15
H.S.-238	10
H.S.-239	5
H.S.-240	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, M, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, --= NOT ANALYZED

**RECEIVED**  
**AUG 17 1987**  
**150515**

COMPANY: PAMICON DEVELOPMENT  
 ATTENTION:  
 PROJECT: ~~HEC~~  
 HEC

REPORT#: PA  
 JOB#: 870848  
 INVOICE#: NA

DATE RECEIVED: 87/08/02  
 DATE COMPLETED: 87/08/10  
 COPY SENT TO:

ANALYST *W. Lewis*

SAMPLE NAME	AG PPM	AL %	AR PPM	AU PPM	BA PPM	BI PPM	BR %	BU PPM	CA PPM	CB PPM	CC PPM	CD PPM	CE %	CF %	CG %	CH PPM	CI PPM	CL %	CM PPM	CO PPM	CP %	CQ %	CR PPM	CS %	CU PPM	CV %	CA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	M PPM	ZN PPM
H.S.-154	.1	4.62	17	ND	51	4	.05	.1	9	39	43	7.14	.01	.30	230	8	.13	24	.08	25	ND	ND	851	ND	5	ND	ND	78										
H.S.-155	.1	4.87	22	ND	19	ND	.06	.1	7	34	24	6.70	.01	.20	193	14	.12	12	.07	34	ND	ND	7	ND	5	ND	ND	66										
H.S.-156	.1	4.37	19	ND	30	ND	.08	.1	8	44	33	7.80	.01	.32	180	19	.14	18	.07	29	ND	ND	ND	ND	7	ND	ND	66										
H.S.-157	.6	6.80	22	ND	36	3	.07	.1	5	22	24	4.82	.02	.34	310	9	.08	17	.05	33	ND	ND	ND	ND	8	ND	ND	87										
H.S.-158	.1	1.26	12	ND	37	4	.16	.1	8	8	35	2.56	.01	.22	160	5	.03	8	.08	32	ND	ND	3	ND	18	5	ND	35										
H.S.-159	.1	3.16	7	ND	30	ND	.08	.1	10	27	32	5.55	.01	.34	170	7	.08	17	.05	26	ND	ND	3	ND	7	3	ND	66										
H.S.-160	.1	1.62	11	ND	26	4	.15	.1	10	11	13	3.25	.01	.69	192	3	.05	6	.03	16	ND	ND	ND	ND	12	ND	ND	25										
H.S.-161	.1	3.29	16	ND	24	ND	.03	.1	6	28	23	5.65	.01	.30	156	6	.08	10	.03	26	ND	ND	3	ND	4	ND	ND	37										
H.S.-162	.8	4.16	18	ND	24	6	.04	.1	10	16	31	6.32	.01	.60	280	8	.11	8	.04	36	ND	ND	3	ND	3	ND	ND	94										
H.S.-163	.1	7.00	18	ND	45	ND	.07	.1	9	32	69	5.72	.01	.48	243	8	.11	15	.06	25	ND	ND	ND	ND	8	ND	ND	65										
H.S.-164	.6	1.52	12	ND	21	ND	.06	.1	9	9	21	4.09	.01	.19	142	5	.07	4	.02	28	ND	ND	6	ND	5	5	ND	65										
H.S.-165	.3	2.23	24	ND	22	8	.08	.1	10	17	71	9.41	.01	.20	175	9	.15	4	.04	43	ND	ND	8	1	8	ND	ND	38										
H.S.-166	.1	4.33	13	ND	38	ND	.08	.1	6	31	23	5.83	.01	.40	253	7	.10	23	.06	32	ND	ND	ND	ND	10	ND	ND	62										
H.S.-167	.1	3.99	16	ND	29	ND	.02	.1	5	45	28	5.41	.01	.45	162	4	.10	32	.04	23	ND	ND	ND	ND	4	ND	ND	47										
H.S.-168	.6	1.02	6	ND	51	ND	.08	.1	8	7	25	1.54	.01	.17	105	3	.01	5	.03	29	ND	ND	4	ND	13	8	3	22										
H.S.-169	1.1	4.30	19	ND	22	4	.05	.1	5	23	24	5.59	.02	.32	239	8	.08	16	.03	37	ND	ND	6	ND	4	5	ND	70										
H.S.-170	.2	1.76	20	ND	30	6	.04	.1	7	13	28	4.44	.01	.08	97	6	.06	5	.02	29	ND	ND	7	3	4	6	3	27										
H.S.-171	.2	.68	10	ND	21	4	.12	.1	9	6	20	2.90	.01	.19	142	5	.04	4	.03	19	ND	ND	7	7	14	6	5	31										
H.S.-172	.1	.64	7	ND	35	3	.10	.2	6	5	17	3.04	.01	.10	172	5	.05	5	.05	20	ND	ND	7	4	11	5	ND	34										
H.S.-173	1.6	6.25	119	ND	25	5	.03	.1	7	16	38	6.29	.06	.11	311	10	.10	8	.04	58	ND	ND	ND	ND	1	4	ND	118										
H.S.-174	.1	3.64	24	ND	37	ND	.11	.1	9	14	68	4.83	.01	.28	712	8	.08	14	.07	32	ND	ND	ND	ND	5	ND	ND	103										
H.S.-175	.2	5.58	31	ND	37	ND	.03	.1	16	22	35	4.66	.13	.29	647	8	.06	25	.04	37	ND	ND	ND	ND	2	6	ND	138										
H.S.-176	.8	4.49	69	ND	133	ND	1.12	13.6	20	18	258	3.90	.11	.29	4078	13	.17	56	.14	48	ND	ND	ND	ND	41	ND	ND	776										
H.S.-177	.1	2.95	21	ND	109	ND	.06	.1	25	42	48	4.50	.08	1.00	1496	4	.10	78	.05	19	ND	ND	ND	ND	13	ND	ND	149										
H.S.-178	.1	3.45	15	ND	42	ND	.07	.1	7	30	23	5.47	.01	.34	304	5	.10	36	.05	33	ND	ND	ND	ND	6	ND	ND	74										
H.S.-179	.2	2.33	20	ND	35	ND	.15	.1	7	21	20	4.62	.01	.25	273	5	.07	9	.04	33	ND	ND	4	ND	15	3	ND	46										
H.S.-180	.1	1.81	11	ND	31	ND	.16	.1	11	10	21	7.15	.01	.28	213	9	.10	6	.05	46	ND	ND	8	11	17	ND	ND	33										
H.S.-181	.1	2.41	8	ND	148	ND	.44	.6	14	28	26	5.74	.01	1.06	1087	7	.14	37	.08	10	ND	ND	ND	ND	30	ND	ND	197										
H.S.-182	.1	.77	4	ND	30	ND	.38	.1	9	7	14	1.72	.01	.30	149	ND	.03	5	.07	5	ND	ND	ND	ND	36	ND	3	34										
H.S.-183	.1	1.12	ND	ND	324	ND	3.52	4.4	7	6	262	.80	.01	.15	3466	4	.01	21	.12	ND	ND	ND	ND	ND	176	4	ND	121										
H.S.-184	.1	.88	7	ND	42	ND	.29	.2	11	6	19	1.87	.01	.53	228	1	.53	10	.07	10	ND	ND	ND	ND	44	ND	ND	38										
H.S.-185	.1	.64	15	ND	27	ND	.04	.1	6	6	16	2.24	.01	.05	82	6	.03	3	.04	32	ND	ND	7	5	7	4	3	17										
H.S.-186	.5	1.43	11	ND	48	ND	.15	.1	8	17	16	3.00	.01	.44	290	3	.05	20	.06	15	ND	ND	3	ND	15	ND	ND	38										
H.S.-187	.1	2.74	9	ND	97	ND	.13	.1	11	14	27	4.50	.01	.39	1501	10	.08	12	.08	24	ND	ND	ND	ND	14	ND	ND	94										
H.S.-188	.1	5.62	16	ND	40	ND	.04	.1	3	9	21	4.08	.01	.07	202	12	.05	2	.05	41	ND	ND	ND	ND	7	4	ND	40										
H.S.-189	.1	3.47	16	ND	37	ND	.05	.1	4	22	19	6.55	.01	.16	218	9	.10	10	.03	33	ND	ND	4	ND	8	ND	ND	46										
H.S.-190	.1	1.16	8	ND	31	ND	.17	.1	7	16	14	3.50	.01	.20	168	3	.05	9	.04	14	ND	ND	3	ND	18	4	ND	27										
H.S.-191	.1	1.08	ND	ND	26	ND	.12	.1	9	12	21	10.53	.01	.08	227	9	.16	1	.04	51	ND	ND	12	6	9	ND	ND	34										
H.S.-192	.1	1.25	13	ND	32	ND	.03	.1	4	10	9	4.44	.01	.06	138	5	.07	5	.03	28	ND	ND	6	ND	7	ND	ND	23										
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1										

SAMPLE NAME	AG PPH	AL %	AS PPH	AU PPH	BA PPH	BI PPH	CA %	CD PPH	CO PPH	CR PPH	CU PPH	FE %	K %	MG %	MN PPH	MO PPH	NA %	NI PPH	P %	PB PPH	PD PPH	PT PPH	SB PPH	SM PPH	SK PPH	U PPH	W PPH	ZN PPH
H.S.-193	.1	.39	5	ND	30	ND	.07	.1	2	3	15	.87	.01	.04	130	2	.02	3	.04	7	ND	ND	ND	ND	10	ND	4	20
H.S.-194	.1	.61	9	ND	138	ND	3.19	23.0	10	4	390	.69	.01	.12	2142	1	.30	7	.10	3	ND	ND	ND	ND	87	ND	ND	1092
H.S.-195	.8	.80	27	ND	44	3	.29	.5	8	5	24	2.13	.01	.10	131	14	.04	3	.04	26	ND	ND	ND	9	19	4	ND	74
H.S.-196	.2	2.59	12	ND	26	ND	.09	.1	6	16	17	5.43	.01	.15	167	6	.08	5	.03	33	ND	ND	7	9	10	ND	ND	44
H.S.-197	.1	2.49	20	ND	23	ND	.09	.1	5	25	20	6.70	.01	.13	150	6	.10	6	.03	34	ND	ND	7	6	8	4	ND	33
H.S.-198	.4	.91	10	ND	30	ND	.24	.1	10	6	18	2.52	.01	.37	233	1	.04	6	.08	12	ND	ND	ND	10	24	4	ND	30
H.S.-199	.8	.82	7	ND	41	4	.11	.1	8	5	17	3.05	.01	.12	90	5	.04	3	.02	26	ND	ND	5	16	11	6	ND	50
H.S.-200	1.3	1.03	8	ND	52	4	.32	.2	15	8	17	2.71	.01	.56	358	2	.04	9	.07	17	ND	ND	ND	8	32	ND	ND	38
H.S.-201	.1	.50	ND	ND	87	ND	.23	.3	4	3	36	.91	.01	.10	146	1	.02	4	.05	7	ND	ND	ND	3	23	ND	ND	28
H.S.-202	.1	1.17	9	ND	39	ND	.04	.1	6	10	22	2.91	.01	.05	85	4	.04	4	.02	22	ND	ND	ND	6	4	ND	ND	31
H.S.-203	.1	.76	5	ND	39	ND	.30	.1	8	7	19	1.57	.01	.20	231	1	.03	2	.11	12	ND	ND	ND	5	27	ND	ND	32
H.S.-204	.1	.98	5	ND	101	ND	.17	.1	6	5	11	2.01	.01	.23	224	3	.04	5	.08	12	ND	ND	ND	2	22	ND	ND	29
H.S.-205	.1	.64	4	ND	33	ND	.23	.1	6	4	16	1.47	.01	.18	432	2	.03	4	.10	6	ND	ND	ND	5	21	ND	6	37
H.S.-206	.1	.99	ND	ND	73	ND	1.35	.1	6	9	83	3.44	.01	.17	832	22	.07	6	.08	31	ND	ND	ND	1	19	ND	27	43
H.S.-207	.1	1.60	ND	ND	114	4	.50	.1	18	11	56	5.03	.01	.78	672	35	.10	12	.15	36	ND	ND	ND	1	40	ND	ND	79
H.S.-208	.1	1.51	3	ND	114	ND	.73	.1	61	9	34	6.26	.01	.64	1299	23	.11	12	.08	28	ND	ND	ND	3	40	ND	8	65
H.S.-209	.1	1.01	ND	ND	43	ND	1.42	.2	10	6	8	2.08	.01	.52	2672	1	.07	6	.08	8	ND	ND	ND	ND	25	ND	ND	82
H.S.-210	.6	1.21	6	ND	71	4	.33	.1	16	14	29	4.35	.01	.42	703	6	.08	11	.04	30	ND	ND	ND	9	20	ND	ND	68
H.S.-211	.1	.60	ND	ND	48	ND	.80	.6	8	5	15	1.87	.01	.24	3759	1	.05	6	.08	12	ND	ND	ND	1	17	ND	ND	60
H.S.-212	.7	1.42	9	ND	66	9	.60	.1	21	13	36	4.68	.01	.84	599	7	.08	16	.07	33	ND	ND	ND	10	46	ND	6	78
H.S.-213	.1	1.13	6	ND	104	ND	.40	.3	12	2	32	.70	.01	.12	480	ND	.02	9	.14	13	ND	ND	ND	1	36	ND	ND	30
H.S.-214	.1	5.91	9	ND	66	ND	.09	.1	7	19	21	6.57	.01	.09	292	8	.10	9	.07	41	ND	ND	10	ND	5	ND	ND	74
H.S.-215	.1	1.48	8	ND	79	ND	.25	.1	5	17	18	5.19	.01	.23	433	7	.09	10	.05	27	ND	ND	ND	ND	13	ND	ND	45
H.S.-216	.1	1.11	ND	ND	52	ND	.42	.5	13	8	33	2.64	.01	.51	1135	2	.05	11	.11	19	ND	ND	ND	3	33	ND	ND	54
H.S.-217	.1	3.32	11	ND	50	ND	.12	.1	12	31	55	8.52	.01	.30	857	10	.15	9	.23	33	ND	ND	6	1	11	ND	ND	79
H.S.-218	.1	2.58	14	ND	64	ND	.12	.1	8	30	26	6.80	.01	.46	637	7	.12	19	.30	29	ND	ND	ND	ND	12	ND	ND	56
H.S.-219	.1	.95	4	ND	36	ND	.09	.1	5	9	14	2.00	.01	.11	489	2	.04	4	.07	24	ND	ND	ND	5	10	ND	ND	27
H.S.-220	.1	.69	3	ND	35	3	.29	.1	8	7	11	1.80	.01	.34	240	1	.03	6	.09	12	ND	ND	ND	8	26	ND	ND	28
H.S.-221	.1	1.71	8	ND	34	ND	.18	.1	7	18	15	4.74	.01	.26	239	5	.08	9	.06	23	ND	ND	ND	5	17	ND	ND	46
H.S.-222	.1	3.27	9	ND	52	ND	.02	.1	4	14	18	6.53	.01	.17	215	7	.12	10	.04	32	ND	ND	6	ND	2	ND	ND	91
H.S.-223	.1	2.43	4	ND	274	ND	.43	.2	10	8	17	1.57	.63	.12	377	7	.01	11	.12	30	ND	ND	ND	ND	24	8	ND	33
H.S.-224	.1	2.95	9	ND	64	ND	.09	.1	7	22	14	2.92	.01	.34	131	31	.04	16	.04	34	ND	ND	7	3	6	ND	ND	66
H.S.-225	.4	2.00	11	ND	46	4	.17	.1	8	10	24	3.23	.01	.05	105	11	.04	3	.05	44	ND	ND	6	19	7	ND	ND	57
H.S.-226	.7	6.18	22	ND	29	ND	.07	.1	5	22	24	4.93	.01	.27	355	8	.09	17	.04	41	6	ND	11	ND	3	ND	ND	122
H.S.-227	.1	1.47	11	ND	34	ND	.10	.1	9	17	26	6.24	.01	.26	184	6	.10	8	.04	32	ND	ND	4	9	10	ND	ND	52
H.S.-228	.1	1.12	3	ND	29	3	.32	.1	9	7	12	2.66	.01	.32	172	2	.05	6	.08	14	ND	ND	ND	3	26	ND	ND	32
H.S.-229	.1	.92	3	ND	34	3	.11	.2	7	6	19	1.72	.01	.24	124	2	.03	2	.02	21	ND	ND	ND	4	11	ND	ND	30
H.S.-230	.1	1.17	ND	ND	21	ND	.05	.1	2	3	4	1.47	.01	.10	89	2	.01	3	.01	10	ND	ND	ND	ND	8	ND	4	9
H.S.-231	.1	7.31	17	ND	30	ND	.05	.1	4	39	25	6.62	.01	.22	126	7	.11	12	.06	34	ND	ND	8	ND	6	ND	ND	47
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPH	AL %	AS PPH	AU PPH	BA PPH	BI PPH	CA %	CO PPH	CO PPH	CR PPH	CU PPH	FE %	K %	MG %	MN PPH	MO PPH	NA %	NI PPH	P %	PB PPH	PD PPH	PT PPH	SB PPH	SN PPH	SR PPH	U PPH	W PPH	ZN PPH
H.S.-232	.1	6.70	47	ND	41	ND	.21	2.5	34	19	209	5.28	.01	.18	1319	13	.13	15	.13	31	ND	ND	4	ND	10	ND	ND	299
H.S.-233	.5	1.64	25	ND	30	ND	.20	1.6	8	5	30	3.44	.01	.16	193	3	.07	6	.03	18	ND	ND	ND	1	24	ND	7	77
H.S.-234	1.7	6.04	109	8	30	ND	.08	.4	5	28	37	6.23	.01	.16	185	8	.13	11	.04	56	ND	ND	6	3	6	ND	ND	147
H.S.-235	.1	3.23	12	ND	158	4	.52	7.0	14	13	58	1.86	.02	.17	3082	28	.07	10	.19	18	ND	ND	ND	3	16	ND	ND	328
H.S.-236	.1	1.83	10	ND	53	ND	.23	9.0	2	3	147	.29	.18	.03	351	4	.01	5	.12	5	ND	ND	ND	ND	9	7	3	78
H.S.-237	.1	4.20	12	ND	106	ND	.44	1.6	13	10	502	2.61	.45	.15	803	11	.01	7	.16	20	ND	ND	ND	ND	13	22	ND	104
H.S.-238	.7	.68	12	ND	21	11	.08	.1	8	4	29	2.53	.01	.17	106	6	.03	3	.01	15	ND	ND	ND	9	9	ND	4	18
H.S.-239	.1	4.38	14	ND	103	ND	.79	.3	14	11	428	2.02	.05	.23	1493	8	.01	11	.26	10	ND	ND	ND	ND	30	ND	ND	51
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 870850 AA

JOB NUMBER: 870850

PANICON DEVELOPMENT LTD.

PAGE 1 OF 1

SAMPLE #	Cu %	Pb %	Zn %	Ag oz/st	Au oz/st
13051	.01	<.01	<.01	.07	<.005
13052	.01	<.01	<.01	.08	<.005
13053	.01	<.01	<.01	.05	<.005
13054	.02	.01	.01	.10	<.005
13055	.04	.01	.01	.30	<.005
13056	<.01	.01	.01	.12	<.005
13057	.02	.01	<.01	.01	<.005
13201	.04	.01	<.01	.01	<.005
13202	<.01	.01	<.01	<.01	<.005
13203	.03	<.01	<.01	.02	<.005
13204	<.01	<.01	<.01	.09	<.005
13205	<.01	<.01	<.01	.04	<.005
13206	<.01	<.01	<.01	.01	.006
13207	<.01	<.01	<.01	.01	<.005
13350	<.01	<.01	<.01	.11	.012

HEC  
V= Bluff  
Sand  
Sonzers  
h i - pad

HEC  
Corner  
Bluff  
Stz  
slowing.

HECT

### DETECTION LIMIT

1 Troy oz/short ton = 34.28 ppm

.01  
1 ppm = 0.00012 ppm = parts per million

.01 .005  
< = less than

signed: \_\_\_\_\_

HECTOR STU 475



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 988-6211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-6656

REPORT NUMBER: 870852 6A

JOB NUMBER: 870852

PANICOM DEVELOPMENT LTD.

PAGE 1 OF 1

SAMPLE #

Au  
ppb

13251

nd

13252

nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



VANBUOCHER LA LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, Ni, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

RECEIVED  
 AUG 14 1987

COMPANY: PAMICON  
 ATTENTION: S. TODURUK  
 PROJECT: HEC

REPORT#: PA  
 JOB#: 870852  
 INVOICE#: NA

DATE RECEIVED: 87/7/28  
 DATE COMPLETED: 87/8/12  
 COPY SENT TO: C.K. IKONA

ANALYST *W. Rees*

PAGE 1 OF 1

SAMPLE NAME	AG PPH	AL %	AS PPH	AU PPH	BA PPH	BI PPH	CA %	CD PPH	CO PPH	CR PPH	CU PPH	FE %	K %	MG %	MN PPH	MO PPH	NA %	NI PPH	P %	PB PPH	PD PPH	PT PPH	SB PPH	SN PPH	SR PPH	U PPH	W PPH	ZN PPH
13251	.1	1.79	ND	ND	23	4	.93	.2	21	6	51	4.69	.01	1.39	547	26	.08	5	.08	4	ND	ND	ND	4	48	ND	4	46
13252	.5	2.20	ND	ND	29	12	.65	.1	10	17	218	5.25	.02	1.16	542	2	.10	10	.08	14	ND	ND	ND	ND	63	ND	ND	60
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



# VANGEOCHEM LAB LIMITED

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BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT #: 880017 DB

PAMICON DEV INC. HEC

Page 1 of 7

Sample Number	Job Num	Au ppb
13301	870776	<5
13302	870776	10
13303	870776	<5
13304	870776	<5
13305	870776	<5
13306	870776	<5
13307	870776	<5
13308	870776	<5
13309	870776	<5
13310	870776	<5
13311	870776	15
13312	870776	<5
13313	870776	<5
13314	870776	<5
13315	870776	<5
13316	870776	<5
13317	870776	<5
13318	870776	<5
13319	870776	5
13320	870776	30
13321	870776	<5
13322	870776	<5
13323	870776	<5
13324	870783	<5
13325	870783	<5
13326	870783	<5
13327	870783	<5
13328	870783	20
13329	870783	<5
13330	870783	290
13331	870783	<5
13332	870783	<5
13333	870783	5
13334	870783	5
13335	870783	50
13336	870783	30
13343	870783	30
13344	870783	5
13345	870783	<5

Minimum Detection 1 5  
Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
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BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 2 of 7

Sample Number	Job Num	Au ppb
13346	870783	65
13351	870776	<5
13352	870776	10
13353	870776	<5
13354	870776	5
H+M-1	870795	90
H+M-2	870795	90
H+M-3	870795	15
H+M-4	870795	5
H+M-5	870795	5
H+M-6	870795	30
H+M-7	870795	15
H-Si-1	870795	480
H-Si-2	870795	30
HS-001	870779	40
HS-003	870779	10
HS-004	870779	15
HS-005	870779	10
HS-006	870779	45
HS-007	870779	10
HS-008	870779	5
HS-009	870779	10
HS-010	870779	15
HS-011	870779	<5
HS-012	870779	10
HS-013	870779	20
HS-014	870779	5
HS-015	870779	5
HS-016	870779	15
HS-017	870779	10
HS-018	870779	20
HS-019	870779	40
HS-020	870779	20
HS-021	870779	20
HS-022	870779	5
HS-023	870779	5
HS-024	870779	15
HS-025	870779	10
HS-026	870779	15

Minimum Detection 1 5  
Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

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BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 3 of 7

Sample Number	Job Num	Au ppb
HS-027	870779	5
HS-028	870779	5
HS-029	870779	15
HS-030	870779	10
HS-031	870779	5
HS-032	870779	15
HS-033	870779	5
HS-034	870779	10
HS-035	870779	10
HS-036	870779	10
HS-037	870795	10
HS-038	870795	5
HS-039	870795	10
HS-040	870795	10
HS-041	870795	10
HS-042	870795	10
HS-043	870795	10
HS-044	870795	15
HS-045	870795	10
HS-046	870795	10
HS-047	870795	15
HS-048	870795	<5
HS-049	870795	10
HS-050	870795	10
HS-051	870795	10
HS-052	870795	10
HS-053	870795	<5
HS-054	870795	10
HS-055	870795	10
HS-056	870795	15
HS-057	870795	10
HS-058	870795	10
HS-059	870795	10
HS-060	870795	25
HS-061	870795	<5
HS-062	870795	55
HS-063	870795	25
HS-064	870795	5
HS-065	870795	5

Minimum Detection 1 5  
Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

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BRANCH OFFICE  
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(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 4 of 7

Sample Number	Job Num	Au ppb
HS-066	870795	10
HS-067	870795	<5
HS-068	870795	5
HS-069	870795	15
HS-070	870795	<5
HS-071	870795	10
HS-072	870795	50
HS-073	870795	75
HS-074	870795	35
HS-075	870795	10
HS-076	870795	5
HS-077	870795	5
HS-078	870795	5
HS-079	870795	30
HS-080	870795	40
HS-081	870795	45
HS-082	870795	55
HS-083	870795	25
HS-084	870795	20
HS-085	870795	5
HS-086	870795	15
HS-087	870795	<5
HS-088	870795	520
HS-089	870795	25
HS-090	870795	<5
HS-091	870795	45
HS-092	870795	130
HS-093	870795	170
HS-094	870795	10
HS-095	870795	<5
HS-096	870795	<5
HS-097	870795	20
HS-098	870795	10
HS-099	870795	20
HS-100	870795	<5
HS-101	870795	20
HS-102	870795	20
HS-103	870795	30
HS-104	870795	<5

Minimum Detection

1 5

Maximum Detection

99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 5 of 7

Sample Number	Job Num	Au ppb
HS-105	870795	20
HS-106	870795	10
HS-107	870795	10
HS-108	870795	15
HS-109	870795	<5
HS-110	870795	20
HS-111	870795	15
HS-112	870795	10
HS-113	870779	30
HS-113	870795	10
HS-113 A	870779	10
HS-114	870795	140
HS-114	870779	10
HS-114 A	870779	5
HS-115	870795	65
HS-116	870795	10
HS-117	870795	70
HS-118	870795	70
HS-119	870795	10
HS-120	870795	15
HS-121	870795	<5
HS-122	870795	20
HS-123	870795	10
HS-124	870795	5
HS-125	870795	15
HS-126	870795	10
HS-127	870795	10
HS-128	870795	<5
HS-129	870795	25
HS-130	870795	20
HS-131	870795	10
HS-132	870795	10
HS-133	870795	5
HS-134	870795	5
HS-135	870795	10
HS-136	870795	10
HS-137	870795	60
HS-138	870795	20
HS-139	870795	5

Minimum Detection 1 5  
Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

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VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 6 of 7

Sample Number	Job Num	Au ppb
HS-140	870795	10
HS-141	870795	10
HS-142	870795	5
HS-143	870795	10
HS-144	870795	15
HS-145	870795	20
HS-146	870795	<5
HS-147	870795	50
HS-148	870795	45
HS-149	870795	40
HS-150	870795	30
HS-151	870795	10
HS-152	870795	10
HS-153	870795	20
HS-500	870779	5
HS-500 A	870779	10
HS-501	870779	10
HS-501 A	870779	15
HS-502	870779	15
HS-502 A	870779	15
HS-503	870779	15
HS-503 A	870779	5
HS-504	870779	15
HS-504 A	870779	15
HS-505	870779	10
HS-505 A	870779	5
HS-506	870779	10
HS-506 A	870779	10
HS-507	870779	<5
HS-507 A	870779	10
HS-508	870779	10
HS-508 A	870779	15
HS-509	870779	15
HS-509 A	870779	5
HS-510	870779	20
HS-510 A	870779	20
HS-511	870779	10
HS-511 A	870779	20
HS-512	870779	5

Minimum Detection 1 5  
Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
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(604) 251-5656

REPORT #: 880047 DB

PAMICON DEV INC. HEC

Page 7 of 7

Sample Number	Job Num	Au ppb
HS-512 A	870779	10
HS-515	870779	10
HS-517	870779	15
HS-518	870779	10
HS-519	870779	5
HS-520	870779	5
HS-521	870779	5
HS-522	870779	75
HS-523	870779	20
HS-524	870779	10
HS-525	870779	5
HS-526	870779	5
HS-527	870779	20
HS-528	870779	10
HS-529	870779	5
HS-530	870779	5
HS-533	870779	5
HS-534	870779	5
HS-536	870779	10
HS-537	870779	10
HS-539	870779	5
HS-540	870779	5
HS-541	870779	10
HS-542	870779	10
HS-543	870779	10
HS-544	870779	10
HS-545	870779	10

Minimum Detection 1 5

Maximum Detection 99999 10000

< = Less than Minimum is = Insufficient Sample ns = No sample



**APPENDIX IV**

**GEOCHEMICAL DATA SHEETS**

Geochemical Data Sheet - SOIL SAMPLING.

Sampler ROD & KERRY  
Date JULY 14<sup>TH</sup>

Project HEC  
Property HECTOR

NTS  
Location Ref (H)  
Air Photo No \_\_\_\_\_

120 m. LINE CURVE EAST FROM BOTTOM OF KNOLL

SAMPLE NO.	LOCATION	Depth	Horiz A/B/C	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				ppb				
HS-3	0.M	8"	A/B	LITE BROWN	LOOSE HUMUS	YES	bottom of bluff	THICK	ALTITUDE OF 120 m.	10				
HS-4	25 M	6"	A/B	LITE BROWN	" "	YES	" "	" "	" "	15				
5	53 M	5"	A/B	DARK BROWN	MUD	YES	" "	<del>THICK</del>	UNDER BOULDER	10				
6	87 M.	3"	A	LITE BROWN	HUMUS	YES	" "	Thick	" "	45				
7	105 M	6"	A/B	DARK BROWN	DIRT	" "	" "	" "	UNDER TREE ROOTS.	10				
8	136 M.	8"	B	DARK BROWN	MUD	" "	" "	" "	RUN OFF	5				
9	156 m	1"	B	RED/BR	DIRT	^	^	^	SURFACE	10				
10	180	3'	B	RED/BR.	^	^	^	^	^ "	15				
11	203	4"	B	DARK/BR	^	^	^	^	UNDER BOUNDER	nd				
12	231	5	B	LITE BR.	-	^	^	^	UNDER ROOTS.	10				
13	260	4	A/B	D/B	-	^	^	^	^	20				
14	290	5	B	D/B	-	^	^	^	U/BOUNDER	5				
15	310	8	A/B	D/B	-	^	^	^	ROOTS.	5				
16	341	4	B	D/B	-	^	^	^	U/ROOTS.	15				
17	367	4	A/B	D/B	-	^	^	^	BEARSK	10				
18	400	4	A/B	D/B	-	^	^	^	U/ROOTS.	20				
19	425.	3	B	L/B	-	^	^	^	U/ROOTS.	40				
20	451	6	B	L/B	-	^	^	^	^	20				
21	481	3	B	L/B	-	^	^	^	^	20				
HS-22	505	3	B	D/B	-	^	^	^	^	5				

# PAMICON DEVELOPMENTS LIMITED

## Geochemical Data Sheet - SOIL SAMPLING

Sampler RON & KEAY  
Date July 14<sup>th</sup>

Project HEC  
Property HECTOR

NTS  
Location Ref (11)  
Air Photo No \_\_\_\_\_

120 m. line along EAST FROM BOTTOM OF HOLE

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Ag (ppb)				
HS-23	531 m.	3"	B	Dirt/Brown	DIRT	YES	Bottom of 13cm	TILCH	UNDER BOUNDARY.	5				
HS-24	555	3"	A/B	LITE BROWN	DIRT	-	-	-	UNDER ROOTS.	15				
25	578	1"	B	L/B	-	-	-	-	" "	10				
26	605	1"	AB	L/B	-	-	-	-	" "	15				
27	632	1	B/C	D/B	-	-	-	-	U/ROOTS.	5				
28	659	1	A/B	L/B	-	-	-	-	" "	5				
29	685	3	B	DARK.	-	-	-	-	" "	15				
30	713	8	B	D/B	GRAVEL	-	-	-	" "	10				
31	736	8	A/B	L/B	GRAVEL	-	-	-	" "	5				
32	760	8"	B	RED.	DIRT	ON SCOPE	-	-	APPROXIMATE FAN/DEVI'S CAMP	15				
33	786	8	A	-	GRAVEL.	" "	-	-	" " FAN	5				
34	812	8	A/B	BROWN.	GRAVEL	FAN.	-	-	" " FAN	10				
35	840	10	A	-	GRAVEL	FAN.	-	-	" " FAN	10				
HS-36	865	8	A	D/BR.	-	FAN.	-	-	" " FAN	10				

Geochemical Data Sheet - SOIL SAMPLING.

Sampler ROD & KERRY  
Date JULY 15<sup>th</sup>

Project HEC  
Property HECTOR ST 10 1/2

NTS  
Location Ref (H)  
Air Photo No \_\_\_\_\_

START OF WEST RUN ALONG 120 m OF KNOLL.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage								
HS 37	0. m.	8"	A/B	DRY BROWN	DRY	YES	BASE OF KNOLL	THICK	HEAVY MOSS / 110 m. ELEVATION	10				
HS 38	26 m.	4	B	D/B	DIRT	-	-	-	LOOSE MOSS	5				
39	64.	3	B	B	MUD	-	-	-	SURFACE	10				
40	90	1	B	D/B	WET DIRT	YES	-	-		10				
41	109	2	B	D/B	DIRT	YES	-	-		10				
42	130	4	A/B	D & RED	-	-	YES	-		10				
43	160	8	A/B	LIGHT BROWN	LOOSE DIRT	-	YES	-		10				
44	182	5.	A/B	D & R.	GRAVEL	-	YES	-	/120 m ELEV.	15				
45	240	5	A/B	D/B.	DIRT	-	-	-	LOVELY TERRAIN	10				
46	234	5	B/A	4/B	-	-	-	-	/120 m. ELEV.	10				
47	254	5	D/A	R/B	-	-	-	-	BASE OF BLUFF.	15				
48	278	5	A/B	D/B	-	-	YES	-		nd				
49	303	8	A	4/B	FRAGMENTED ROCK	-	YES	-	DIRT	10				
50	327	8	A/B	D/B	DIRT	-	YES	-		10				
51	350	7	A/B	4/B	DRY	-	-	-	UNDER ROOTS	10				
52	378	6	D/A	R.	DIRT	-	YES	-	-	10				
53	402	6	B/A	D/B	-	-	-	-	-	nd				
54	430	6	A/B	D/B	-	-	YES	-		10				
55	465	6	B/A	D/B	WET	-	-	-	CROSS DAZED TRAIL CUT HERE W/5 SOUTH.	10				
HS 56	490	SURFACE	ROCK	SI SAMPLE	DRYED CREEK BED.					15				

P.2. of ...

## Geochemical Data Sheet - SOIL SAMPLING.

 Sampler Rod & Nerey  
 Date July 15<sup>th</sup>

 Project HEC  
 Property Hector 211 4/5

 NTS  
 Location Ref (14)  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				A <sub>v</sub>				
H:57	520 m.	6"	D/A	Dark Brown	FLK	YES	YES	Thick		10				
58	550 m.	15	A/B	D/B	-	-	YES	-		10				
59	579	7	B	D/B	-	-	YES	-		10				
60	614.	6	B/A	D/B	FRAGMENTED ROCK.	-	BASE OF SLOPE	-		75				
61	650	6	B/A	Brown	D/RS	-	SLOPE	-		nd				
62	675	6	A/B	Light Brown	-	-	SLOPE	-		nd				
63	702	6	B/A	D/B.	-	-	SLOPE	-		75				
64	730	6	A	D/B	-	-	BLUFF BASE	-		5				
65	760	6	M/B	D/B	-	-	FLAT	-	UNDER ROCK	5				
66	790	6	M/B	D/B	-	-	FLAT	-	VOLCANIC ROCK	10				
67	815.	12	M/B	R/B	PEBBLES	-	-	-		nd				
68	842	6	M/B	R/B.	ROCKY.	-	-	-		5				
69	868	1	B	Red.	-	-	-	-	UNDER ROOTS	15				
70	898	1	M/B	Y/B.	-	-	-	FRU		nd				
71	930	8	B/A	D/B	-	-	-	FRU		10				
72	955.	3	B	D/B	-	-	-	FRU		50				
73	980	3	M/B	Y/B	-	-	-	FRU		75				
74	1010	6	M/B	D/B	-	-	-	FRU		35				
75	1037	6	M/B	R/B	-	-	-	FRU		10				
76.	1065	36	B	D/B	WEX	YES	-	DRY	STREAM BED.	5				



Sampler W. J. K. /  
 Date 5/1/82

Project HECTOR  
 Property HEC

NTS \_\_\_\_\_  
 Location Ref 7  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width True Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
				Rock Type	Alteration	Mineralization				Ag (ppb)				
83	211	PE	5		PE					25				
84	211	PE	5		PE					20				
85	51	PE	5		PE					5				
86	80	PE	5		PE					15				
87	120	PE	4		PE					nd				
88	150	PE	3		PE					520				
89	170	PE	4		PE					25				
90	200	PE	10		PE					nd				
91	230	PE	3		PE					45				
92	260	PE	2		PE					130				
93	270	PE	3		PE					170				
94	310	PE	2		PE					10				
95	345	PE	2		PE					nd				
96	370	PE	11		PE					nd				
97	400	PE	1		PE					20				
98	430	PE	2		PE					10				
99	460	PE	2		PE					20				
100	490	PE	2		PE					nd				
101	515	PE	1		PE					20				
102	540	PE	6		PE					20				

**PAMICON DEVELOPMENTS LIMITED**

**Geochemical Data Sheet - SOIL SAMPLING**

Sampler RON & KERRY  
Date JULY 16<sup>TH</sup>

Project HEC  
Property HECTOR STN 4+5

NTS  
Location Ref (H)  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage								
103	0 m.	6"	A/B	DARK	GRAVEL			(THICK) 130 m. ELEV.				30		
104	25 m	4	A/B	RED	GRAVEL							nd		
105	54	2	B	RED	GRAVEL							20		
106	84	6	A/B	D.B	GRAVEL							10		
107	111	6	A	""	ROCKS							10		
108	136	SILT		""		SMALL STREAM						15		
109	159	SILT		""		SMALL STREAM		VALLEY FORMING.				nd		
110	185.	SURFACE	B	""	GRAVEL	RUN OFF / MARGI AREA.		(W) SCOPE.				20		
111	202	6	A/B	RED B.	SANDY	""				130 m. ELEV.		15		
112	231	3	B/A	BLACK	WET	""						10		
113	256	3	B	""	WET	""						10		
114	281	3	A/B	D.B	WET	""						140		
115	304	3	A/B	""	GRAVEL	""						65		
116	330	6	A/B	DARK	ROCKY	^						10		
117	353	6	A/B	DARK B	ROCKY	^						70		
118	380	6	A/B	D.B	ROCKY	^		END OF LINE /		140 m. ELEV /		70		
79	0 m.	8	A/B	D.B.	GRAVEL	SCOPE		CONTINUE FROM # 78 /		120 m. ELEV.		30		
80	25	6	A/B	D.B	""	^		GANGA WEST.				40		
81	56	6	A/B	D.B	""	^						45		
82	85.	8	A/B	D/B	SAND	^		GREEN. LINE ENDS /		130 m ELEV		55		



Sampler ROD & HERRY.

Project HEC

Location Ref (H)

Date JULY 18 / 87

Property HECTOR. STA 4+5

Air Photo No \_\_\_\_\_

ELEVATION 770-780 METERS.

SAMPLE NO.	LOCATION SPRT IN	HORIZON SAMPLE TYPE	Sample Width DEPTH	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
				Color Rock Type	Texture Alteration	Mineralization		As (ppb)						
119	H-11m7 0-m	A	12"	Black	Humus		EDGE OF CLIFF	10						
120	25.	B/A	6	Dark Brown	Moist DIRT		SLOPE	15						
121	50	AC	8	DB	-		-	nd						
122	75	AB	8	DB	-		-	20						
123	100	BA	6	DB	Rocky		SIDE OF STREAM	10						
124	125	AB	6	PB	Rocky Moist		EDGE OF CLIFF	5						
125	150	BA	4	DB	Rocky DIRT		SLOPE	15						
126	175	AB	8	Light Brown	DIRT		-	10						
127	200	BA	10	LB	Rocky DIRT		-	10						
128	225	AB	8	PB	DIRT		-	nd						
129	250	BA	8	PB	Rocky			25						
130	275	AB	4	RED	DIRT			20						
131	300	AC	4	Grey	Clay DIRT			10						
132	325	B	4	Red B	Moist DIRT			10						
133	350	B	4	Red B	Rocky			5						
134	375	AB	5	AB	DIRT			5						
135	400	AB	3	DB	-			10						
136	425	BA	4	DB	-			10						
137	450	BA	5	DB	Rocky		ALDER SLIDE	60						
138	475	AC	5	DB	wet mud.		NEAR H-11m.5/ STREAM	20						

Sampler Rod & Kerry  
 Date July 18 / 87

Project HEC  
 Property Hector Sta 4TS

NTS \_\_\_\_\_  
 Location Ref (H)  
 Air Photo No \_\_\_\_\_

ELEVATION 770-750

SAMPLE NO.	LOCATION	HORIZON SAMPLE TYPE	Sample Width DEPTH	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
				Color Rock Type	Texture Alteration	Mineralization		Ag ppb						
H-139	500	B	5"	D.B.	WET DIRT		SLOPE	5						
140	525	AB	5"	D.B.	ROCKY		-	10						
141	550	BA	8"	"	DIRT		-	10						
142	575	AC	8"	"	ROCKY		-	5						
143	600	BA	8"	"	WET		-	10						
144	625	B	8"	"	DIRT		BESIDE STREAM	15						
145	650	AB	8"	"	-		SLOPE	20						
146	675	CA	8"	L.B.	ROCKY		<del>SLOPE</del> <del>BESIDE STREAM</del>	nd						
147	700	BA	4"	L.B.	WET		BESIDE H-HM2	50						
148	725	BA	4"	L.B.	GRAVEL		<del>BESIDE</del> <del>H-HM2</del> <del>H-HM2</del>	45						
149	750	BC	4"	R.B.	FINE		SLOPE	40						
150	775	BA	8"	L.B.	MOIST ROCKY		FURREST	30						
151	800	BA	8"	D.B.	DIRT		NEAR STREAM	10						
152	825	SILT	SURFACE	-	SILT		STREAM	10						
153	850	BC	4"	R.B.	DIRT		SLOPE	20						

# PAMICON DEVELOPMENTS LIMITED

## Geochemical Data Sheet - SOIL SAMPLING

Sampler ROD + KERRY  
Date JULY 21/87

Project HEC  
Property HECTOR STU 4+5

NTS \_\_\_\_\_  
Location Ref \_\_\_\_\_  
Air Photo No \_\_\_\_\_

H-S

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Au (ppb)				
154	0 M	5	BA	LKB	Diet			Thick Balsa / 1/32 med						
155	25	5	BA	LKB	"			" "						
156	50	5	AB	LB	"			"						
157	79	8	BA	DB	"			"						
158	104	7	Hum	LB	"			Red Rock + Moss						
159	126	6	AB	LB	"			"						
160	151	6	AB	LB	"			"						
161	176	4	BC	LB	"			"						
162	204	5	BA	LB	"			Mossy						
163	225	8	AB	DB	"			Mossy						
164	250	5	AB	LB	GLYSA SAND			SLOPES						
165	275	5	AB	LB	Rocky			"						
166	304	5	BA	LB	Rocky			"						
167	330	8	B	LB	Rocky			Moss						
168	365	8	BA	LB	"			"						
169	390	8	BA	RB	"			"						
170	412	4	B	RB	"			" 1/2 H2O / 1/2 H2O						
171	437	4	AB	LB	"			"						
172	462	4	AB	GRKY	ROCKS			"						
173	486	SURF	B	RB	Rocky			440 ALT 700 1/2 1/2						

# PAMICON DEVELOPMENTS LIMITED

## Geochemical Data Sheet - SOIL SAMPLING

Sampler ROD + KERR  
 Date July 21/87  
 HS

Project \_\_\_\_\_  
 Property 1/22 TCK

NTS \_\_\_\_\_  
 Location Ref \_\_\_\_\_  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS							
				Colour	Texture	Drainage											
174	511	3	BA	RB	Roots												
175	535	3	BA	B	Roots												
176	560	6	B	DB	—												
177	584	52	AB	Rocks	Roots												
178	609	<del>52</del> <sup>3</sup>	AB	"	—												
179	633	53	AB	KB	Rocks												
180	657	56	AB	RDB	—				NEAR SIDE STREAM.								
181	665	<del>54</del>	SILT	SILT	SILT				SILT								
182	684	53	BA	DB	—												
183	694	<del>54</del> <sup>5</sup>	SILT	SILT	—				SILT								
184	710	<del>54</del> <sup>5</sup>	AB	RB	—				450 M. ELEV.								
185	735	53	AB	DB	—												
186	760	47	AB	DB	PEBBLES												
187	783	55	AB	LB	—												
188	810	<del>56</del> <sup>56</sup>	A	RDB	—												
189	835	<del>57</del> <sup>7</sup>	B	RD	Roots												
190	860	5	AB	LD	—												
192	884	8	AB	RB	—												
193	910	10	AB	<del>RB</del> <sup>GRY</sup>	—				NEAR STREAM.								
194	935	<del>58</del> <sup>58</sup>	SILT	<del>RB</del> <sup>SILT</sup>	—				NEAR STREAM.								

# PAMICON DEVELOPMENTS LIMITED

## Geochemical Data Sheet - SOIL SAMPLING

Sampler Rud + Kerst.  
 Date July 21/87  
 HS

Project \_\_\_\_\_  
 Property HECTOR

NTS \_\_\_\_\_  
 Location Ref \_\_\_\_\_  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION (m)	Depth (in)	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS								
				Colour	Texture	Drainage												
195	965	4	B	RB	Waxy				COMING TO CLEANING									
196	958	8	BA	LB	"													
197	1012	7	AB	LB	"				450 METER ELEV									
198	1037	7	AB	LB	"				NEAR STREAM E.O.L.									
199	0+00	10	AB	GR					(July 23, 1987) - Rud + Kerst east end of property up on knob where we cut 2 new heli-pads. HS-199-239									
200	0+25E	6	AB	DB	rocky													
201	0+50E	7	AB	ROB														
202	0+75E	6	AB	GRB														
203	1+00E	8	B	DB	rocky													
204	1+25E	3	B	LB	"													
205	1+50E	6	B	GB	"													
206	1+75E	2	B	GB	"													
207	2+00E	6	B	LB	sandy													
208	2+25E	6	B	LB	rocky													
209	0+25 W	6	B	LB	rocky													
210	0+50 W	3	B	LR	"													
211	0+75 W	6	B	LB	"													
212	1+00 W	8	B	LB	"													
213	1+25 W	6	C	LB	"													
214	1+50 W	2	B	RB	"													

Geochemical Data Sheet - SOIL SAMPLING.

Sampler Rod + Kerry  
 Date July 21/87

Project HEC  
 Property HECTOR STU 4+5

NTS \_\_\_\_\_  
 Location Ref \_\_\_\_\_  
 Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION (m)	Depth (in)	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS					
				Colour	Texture	Drainage									
HS-215	1+75 W	4	B	RB	rock										
216	2+00 W	6	B	GB											
217	2+25 W	8	B	RB											
218	2+50 W	4	B	LB	rocky										
219	2+75 W	3	B	RB											
220	3+00 W	10	B	LG											
221	3+25 W	8	C	LB	rocky										
222	0+25 W	6	B	LB											
223	0+50 W	6	B	DB											
224	0+75 W	4	C	DB	rocky										
225	1+00 W	10	C	DB	rocky										
226	1+25 W	8	B	DB											
227	1+50 W	7	B	LB											
228	1+75 W	5	B	DB											
229	2+00 W	6	B	GB											
230	2+25 W	8	B	GB											
231	2+50 W	7	C	DB	rocky										
232	0+00	6	B	LB											
233	0+25 E	6	B	LB											
234	0+50 E	8	B	LB											



Geochemical Data Sheet - SOIL SAMPLING.

Sampler KERRY & CAL.  
Date JULY 11<sup>th</sup>

Project HEC  
Property HECTOR STU 4+5

NTS  
Location Ref (H)  
Air Photo No \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				Au (ppb)				
	500	175		B	Soft		MOD.	DENSE	200 m.	5				
	500A/25			B	"		MOD	Light	200 m	10				
	501	125		B	Rich		"	"	200m	10				
	A			D			"	med.	200 Little drier	15				
	502			B			"	Light	200	15				
	A	150		BA			"	"	" No rocks	15				
	503	"		"			"	"	" "	15				
	503A	125		AB			"	"	" Roots; Rocks	5				
	504	175		BA			"	"	" Rocks (50%) Roots	15				
	A	200		A			"	"	" Few Rocks switched at knol	15				
	505	150		AB			MOD	MED	" In gully mostly humus	10				
	A	300 in bank		B			"	Light	" S Sample All Rock, roots 2 handguls	5				
	506	225		BA	60% rocks		"	"	" Small Creek	10				
	A	150		A			"	"	" Side of bank total bedrock	10				
	507	250		AB			"	"	" Lots of tree roots	nd				
	A	150		BA	20% rock		"	"	"	10				
	508	150		A	60% hard rock		"	"	"	10				
	A	150		BA			"	"	"	15				
	509	150		BA			"	"	"	15				
	A	250		A			"	"	" kind of gully no water	5				



Geochemical Data Sheet - SOIL SAMPLING.

Sampler  
Date

CAL & KERRY  
JULY 11<sup>th</sup>

Project  
Property

HEC  
HECTOR STU 4+5

NTS  
Location Ref  
Air Photo No

(H)

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS				
				Colour	Texture	Drainage				A <sub>y</sub> (ppb)				
510	200 m.	200.	A	ROCK	ROCK		MOD	LITE	WEAR ROCK BLUFF (P MOSS (ROCKS/ROOTS))	20				
510A	200 m.	200	A-B	"	"		CHIFF	MOD.	(CHIFF ABOVE US TOO) ON EDGE OF CHIFF - 20' DROP	20				
511	190 m	125	B-A	LITE BROWN	"	"	BTTM OF CLIFF	MOD	DOWN TO BOTTOM OF ROCK BLUFF	10				
511A	190	250	B-A	Brown	"	"	"	"	STILL AT CHIFF BOTTOM	20				
512	190	200	A	"	"	NEARBY	TOP OF SLOPE	MOD	TOP OF SLOPE	5				
512A	190	200	B	LITE BROWN	"	"	"	HEAVY	LARGE ROCKS UNDER MOSS	10				
513	190	250	A-C	"	"		FLAT.	MOD.	20% ROCK BENEATH IN SAMPLE					
513A	190	200	B	RICH RED	"	"	"	MOD	NO ROCKS IN SOIL					
514	190.	200	B	RICH RED	"	"	"	MOD.	DEVILS CLUB					
514A	180 750 M	250	A-C	"	"	DAMP.	BTTM OF ROCK BLUFF	HEAVY	ROCK BLUFF BTM.					

Geochemical Data Sheet - SOIL SAMPLING.

Sampler Philippa & Kerry  
 Date July 13/87  
 WEST ROOM AT Line

Project HEC  
 Property HECTOR STU 4+5

NTS Location Ref continuing 200M AL  
 Air Photo No containing 200M AL

SAMPLE NO.	LOCATION <small>as distance from stream</small>	Depth	Horiz	DESCRIPTION			SLOPE	VEG	ADDITIONAL OBSERVATIONS / REMARKS	ASSAYS						
				Colour	Texture	Drainage										Ag (ppb)
515	775M	4"	A-B	Black	WET	—	Apparent	Mod.	"A" NO LONGER USED.							10
516	NO SAMPLE POSSIBLE								Rock slide & wall MOSS COVERED							—
517	825M	6"	B-A	Brown	Dry <sup>side</sup>	—	Present	"	Foot of Rock Bluff no							15
518	850M	6"	B-A	Brown	Rich Moist	—	Definite	—								10
519	875M	8"	(H)	BLACK	MOIST	—	"	Lots	NEAR CREEK (Rock & Log Fall) 190							5
520	900M	8"	B-A	Light Brown	Dry 40% Bob	RATINGS		THICK	UPRAVINE ROOM AT							5
521	925M	15"	A-B	Grey	Dry	Small Ravines	FATHER	THICK	NEAR CREEK still 200M AT							5
522	950M	12"	A-B	Green	Dry 40%	River	Cliff	Thinner	AT CREEK END OF LINE							75
523	0M <sup>beside creek</sup>	4"	B-A	Light Red	Dry	River	Varies	Thin	AT CREEK <sup>NEW</sup> line AT 300M AT 220M Small Creeks							20
524	25M East	8"	A-B	Green	Dry 5%	River	Flat	Lot of Small Birch								10
525	50M East	10"	(H)	Brown	Dry Rocks	Hill	Moderate	Thick								5
526	75M	6"	B	Rich Brown	Soft	—	Varies	Thinner	Top of Cliff still at 300M AT							5
527	100M	8"	B-A	Rich Brown	100% rock	—	Broken	Sparse								20
528	125M	6"	B-A	Light Brown	40% Shattered	Slope	Intense	"	Log Fall on Slope							10
529	150M	6"	A-B	Light Brown	70% Shattered	—	60°	Sparse	Coming to Bluff							5
530	175M	8"	A-B	Dark Brown	FRAGMENTED ROCK.	—	" "	"	GOING DOWN FROM BLUFF (< 300m)							5
531	200M	NO	SAMPLE POSSIBLE			BOTTOM OF		ROCK	CLIFF: FALL OUT OF ROCKS & DEAD TREES							—
532	225M	NO	SAMPLE						SAME AS ABOVE (NOW @ 285M)							—
533	250M	6"	B	Red.	MOIST	SLOPE DOWN BELOW	FLAT	MOD.	- NEARING CREEK.							5
534	275M	12"	A-C	MOIST	MOIST	RUNOFF AREA	APPARENT	HEAVY								5



**APPENDIX V**

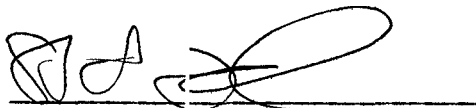
**STATEMENT OF QUALIFICATIONS**

STATEMENT OF QUALIFICATIONS

I, STEVE L. TODORUK, of Suite 102, 8675 Fremlin Street, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the employment of Pamicon Developments Limited, with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
3. THAT my primary employment since 1979 has been in the field of mineral exploration.
4. THAT my experience has encompassed a wide range of geologic environments and has allowed considerable familiarization with prospecting, geophysical, geochemical and exploration drilling techniques.
5. THAT this report is based on data generated by myself, under the direction of Charles K. Ikona, Professional Engineer.
6. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to receive any such interest.
7. THAT I hereby grant permission to Hector Resources Inc. for the use of this report in any prospectus or other documentation required by any regulatory authority.

DATED at Vancouver, B.C., this 17<sup>th</sup> day of February, 1988.



Steve L. Todoruk, Geologist

**APPENDIX VI**

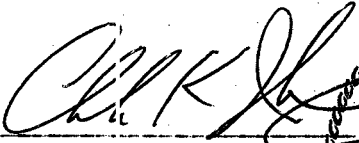
**ENGINEER'S CERTIFICATE**

ENGINEER'S CERTIFICATE

I, CHARLES K. IKONA, of 5 Cowley Court, Port Moody, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Mining Engineer with offices at Suite 711, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a degree in Mining Engineering.
3. THAT I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. THAT this report is based on a research of all available information surrounding Hector Resources Inc.'s mineral claim compiled by Steve Todoruk, with whom I have worked for two years, and in whom I have every confidence.
5. THAT I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to acquire any such interest.
6. THAT I consent to the use by Hector Resources Inc. of this report in a Prospectus or Statement of Material Facts or any other such document as may be required by the Vancouver Stock Exchange or the Office of the Superintendent of Brokers.

DATED at Vancouver, B.C., this 17 day of Feb, 1988.

  
Charles K. Ikona, P.Eng.

