

MAP NO:106C/13

ASSESSMENT REPORT: X

DOCUMENT NO: 093264

PROSPECTUS:

MINING DISTRICT: Mayo

CONFIDENTIAL: X

TYPE OF WORK: Geological,  
Geochemical

OPEN FILE:

REPORT FILED UNDER: Newmont Exploration Ltd.

DATE PERFORMED: June 26, 1994

DATE FILED: February 1, 1995

LATITUDE: 64 57

AREA: Fairchild Lake

LONGITUDE: 133 46

VALUE: \$5200

CLAIM NAME AND #: Fair 79-94

WORK DONE BY: Equity Engineering

WORK DONE FOR: Newmont Exploration Ltd.

DATE TO GOOD STANDING	REMARKS: Copper mineralization consisting of chalcopyrite and pyrite concentrated in magnetite, albite, silica nad iron carbonate altered Fairchild Lake Group sediments adjacent to sodic-rich heterolithic breccia. Mineralization resembles that found on the Hoover property. Gold values on the property are low.

MINFILE: 106C 007  
PAGE NO: 1 of 2  
UPDATED: 10/18/94

**YUKON MINFILE  
STANDARD REPORT  
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND  
WHITEHORSE**

NAME(S): Fairchild  
MINFILE #: 106C 007  
MAJOR COMMODITIES: Cu, U  
MINOR COMMODITIES: -  
TECTONIC ELEMENT: Mackenzie Platform

NTS MAP SHEET: 106 C 13  
LATITUDE: 64°57'23"N  
LONGITUDE: 133°45'14"W  
DEPOSIT TYPE: Wernecke Breccia  
STATUS: Drilled Prospect

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**CLAIMS (PREVIOUS AND CURRENT)**

TYANA, FAIR, WHALE

**WORK HISTORY**

Staked as Tyana cl (Y6997) in Oct/67 by L. Brown and optioned to Hercules E Corp L, a subsidiary of Cyprus E Corp L, which conducted a program of mapping, soil sampling and mag and IP surveys in 1969, then did some bulldozer trenching on IP anomalies.

Restaked as Fair cl (Y87521) in Mar/74 by Magni Dev L, which performed a VLF-EM survey and drilled 2 holes (138 m) later in the year and transferred the property to Menika Mg L in 1975.

Restaked as Fair cl (YA30243) in May/78 by Energex Mls L, which explored with mapping, geochem and radiometric surveys in 1978, hand trenching in 1979, and orthophoto map preparation, geology and geophysics in 1981.

Restaked as Fair 1-78 cl (YB29152) in Oct/92 by Pamicon Developments Ltd. Pamicon staked Whale 1-10 claims (YB29152) as a separate group 1.5 km to the east, also in Oct/92. Both properties were explored with geological mapping, litho geochemistry and soil sampling in 1993 by a joint venture consisting of Pamicon and Equity Engineering Ltd. Six more claims (YB42289) were added to the Fair group in Oct/93. The joint venture partners transferred 100 % interest in the Fair claims to Westmin Resources Ltd. in Jan/94.

**GEOLOGY**

A small outcrop of mafic volcanic rocks contains minor copper oxide and bornite. Representative samples over an outcrop length of 107 m averaged 0.17% Cu. Trenches by Hercules showed the IP chargeability anomalies were caused by shale. A magnetic anomaly trends northwest across the grid and is apparently caused by the disseminated magnetite in the volcanic rock. No significant geochemical response was obtained.

The host rock is an altered porphyritic mafic dyke cutting Middle Proterozoic limy argillite of the Fairchild Lake Group. Surrounding rocks are strongly faulted, contain zones of breccia, and exhibit chloritic alteration and enrichment in magnetite and hematite. Minor brannerite mineralization has been located in eight feldspathized and hematized areas within the limy argillite. The best assays were 0.061% U<sub>3</sub>O<sub>8</sub> across 0.9 m and 0.072% from a selected specimen, and 0.38% Cu across 13 m of fractured hornfels.

**REFERENCES**

ENERGEX MINERALS LTD, Dec/81. Assessment Report #091026 by K.V. Campbell & C.K. Ikona.

HERCULES EXPLORATION CORP. LTD, Aug/68. Assessment Report ##019049 by J.G. Baird.

**REFERENCES (CONTINUED)**

MINERAL INDUSTRY REPORT 1978, p. 11-12.

PAMICON DEVELOPMENTS LTD, Feb/94. Assessment Report #093180 by M.A. Stammers.

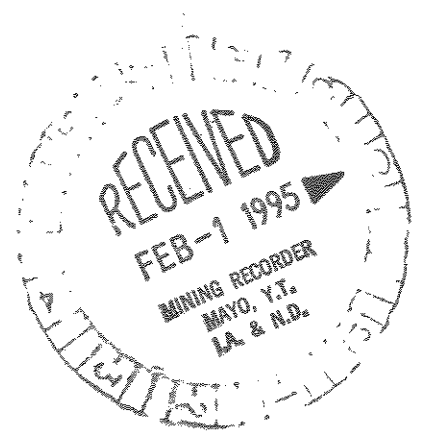
WESTMIN RESOURCES LTD, Jan/94. Assessment Report #093168 by M.A. Stammers.

THORKELSON, D.J. AND WALLACE, C.A., 1994a. Geological Map of Fairchild Lake map area, (106C/13), Wernecke Mountains, Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1994-6(G).

THORKELSON, D.J. AND WALLACE, C.A., 1994b. Geological Setting of mineral occurrences in Fairchild Lake map area, (106C/13), Wernecke Mountains, Yukon. In: Yukon Exploration and Geology, 1993, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 79-92.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 223.

YUKON EXPLORATION AND GEOLOGY 1982, p. 175-176.



1994 GEOLOGICAL AND GEOCHEMICAL  
ASSESSMENT REPORT  
ON THE  
FAIR 79-94 CLAIMS

093264

Located in the Fairchild Lake Area  
Mayo Mining District  
Yukon Territory, Canada  
NTS 106C/13  
64° 57' North Latitude  
133° 46' West Longitude

-prepared for-

NEWMONT EXPLORATION LIMITED

Denver, Colorado

EQUITY ENGINEERING LIMITED

-prepared by-

David A. Caulfield, P. Geo.

DATE OF WORK PERFORMED: June 26, 1994

DATE OF REPORT: January 1995

# 1994 GEOLOGICAL AND GEOCHEMICAL REPORT ON THE FAIR 79-94 CLAIMS

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## 1.0 CONCLUSIONS AND RECOMMENDATIONS

Copper mineralization on the Fair 79-94 claims consists of chalcopyrite and pyrite concentrated in magnetite, albite, silica and iron carbonate altered Fairchild Lake Group sedimentary units adjacent to sodic-rich heterolithic breccia. This type of mineralization is very localized and can be found trending further north along the eastern side of the knob onto the Fair 1-8 claims. The geological setting and mineralizing style on the Fair 79-84 claims resembles that found on the Hoover property where an extensive copper-bearing zone has been defined in association with sodic breccia in Fairchild Lake Group rocks. To date, rock sampling of the Fair mineralization has failed to reveal any comparable gold values to the Hoover property.

The altered contact zone is highlighted by the copper soil geochemistry and airborne magnetics. The presence of abundant magnetite in this zone is reflected by a magnetic trend up the eastern side of the ridge. Elevated copper soil values follow this same trend. The soil grid sample results do not reveal any additional areas requiring further investigation except for a single anomalous copper and cobalt sample site at 5000N, 4900E.

All outcropping areas of the Fair property have been adequately investigated by way of prospecting, soil and rock sampling. Results thus far indicate only weak and quite localized copper mineralization. Gold values for all samples taken to date are insignificant. Indications of mineralization on the exposed areas of the property are not sufficiently encouraging to warrant further work, particularly when the remaining areas of the property are extensively till covered.

## 2.0 INTRODUCTION

The Fair mineral claims are located in the Bonnet Plume River valley, approximately 183 kilometres north-northeast of Mayo in east central Yukon (Figure 1). The property, which is located in the Wernecke Mountains, straddles hummocky ridges and till terraces south of Fairchild Lake. Geologically, the claim group is underlain by a weakly metamorphosed, faulted and folded sequence of Proterozoic sedimentary and volcanic strata that has been intruded by hematite breccias and cut by mafic sills and dykes.

The Fair claims area was the focus of sporadic copper exploration in the late 1960s to the mid 1970s by both major and junior mining companies. Exploration emphasis in the late 1970s shifted to numerous uranium showings and concluded in 1981 with Energex Minerals evaluating the uranium potential of the claims area.

The geological setting of the Wernecke Mountains is considered excellent for hosting Olympic Dam type copper-uranium-gold-silver breccia deposits. Following the encouraging exploration results on Slab Mountain located 12 kilometres to the northwest, it was decided to acquire by staking, the Fair 1-78 claims in October 1992. The Fair 79-94 claims were staked in October, 1993 to cover anomalous magnetic responses from an airborne geophysical survey.

In 1993, an exploration program was undertaken consisting of grid establishment, geological

**NEWMONT EXPLORATION LTD.**  
WESTMIN RESOURCES, PAMICON DEVELOPMENTS, EQUITY ENGR.

FAIRCHILD PROJECT, YUKON TERRITORY, CANADA  
MAYO MINING DISTRICT

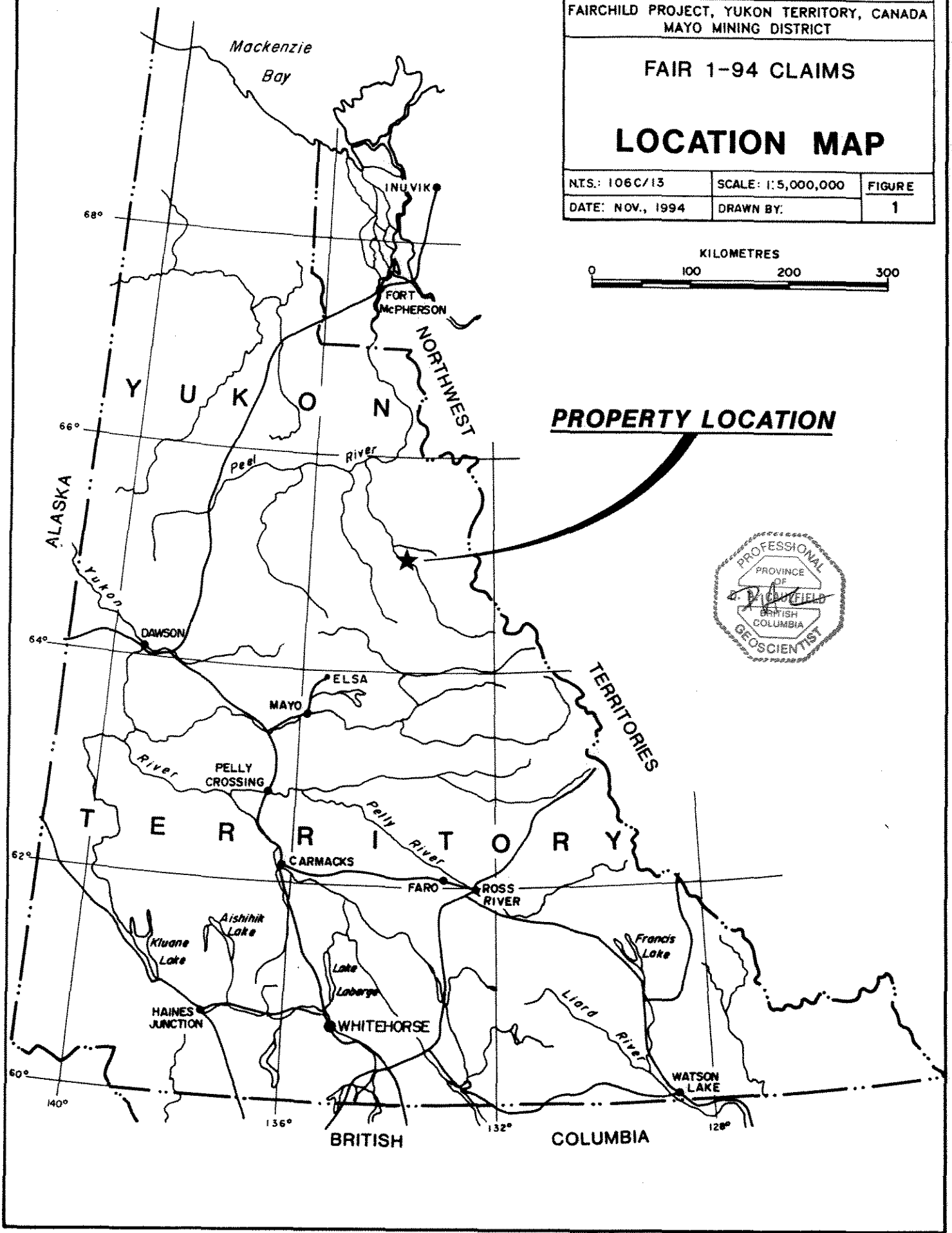
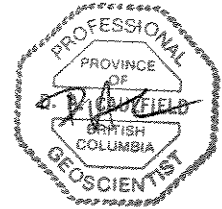
FAIR 1-94 CLAIMS

# LOCATION MAP

NTS: 106C/13	SCALE: 1:5,000,000	FIGURE
DATE: NOV., 1994	DRAWN BY:	1



**PROPERTY LOCATION**



mapping, soil geochemistry and prospecting on the Fair 1-78 claims. All work programs have been jointly conducted by Pamicon Developments Ltd. and Equity Engineering Ltd. on behalf of Westmin Resources Limited.

Work in 1994 consisted of limited preliminary geological mapping, prospecting, grid establishment and soil geochemical sampling in the Fair 79-94 claims area. This work program was jointly conducted by Pamicon Developments Limited and Equity Engineering Ltd. on behalf of the Fairchild Joint Venture (Newmont Exploration Limited and Westmin Resources Limited). The same companies have been retained to report on the field work activities.

### 3.0 LIST OF CLAIMS

The Fair property comprises 94 contiguous quartz mineral claims located in the Mayo Mining District (Figure 2). Government records indicate that the claims are owned 100% by Westmin Resources Limited of Vancouver, B.C. Separate documents indicate that they are under option to Newmont Exploration Limited of Denver, Colorado. The following table lists the claims by name, number, record date, expiry date and map sheet designation.

<u>Table 3.0.1</u>						
<u>Claim Data</u>						
<u>Claim Name</u>	<u>Claim Numbers</u>	<u>Record Numbers</u>	<u>Record Date</u>	<u>Expiry Date</u>	<u>NTS</u>	<u>No. of Claims</u>
Fair	1 - 8	YB29162-169	10/19/92	12/31/95	106C13	94
	9 - 16	YB29170-177	10/19/92	12/31/96	106C13	
	17 - 31	YB29178-192	10/19/92	12/31/95	106C13	
	32 - 40	YB29193-201	10/19/92	12/31/96	106C13	
	41 - 48	YB29202-209	10/19/92	12/31/95	106C13	
	49 - 61	YB29210-222	10/19/92	12/31/96	106C13	
	62	YB29223	10/19/92	12/31/95	106C13	
	63	YB29224	10/19/92	12/31/96	106C13	
	64 - 78	YB29225-239	10/19/92	12/31/95	106C13	
	79 - 94	YB42289-304	10/12/93	12/31/97*	106C13	

\*Subject to approval of assessment work covered by this report.

### 4.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Fair property is located in the Wernecke Mountains of east central Yukon, approximately 183 kilometres north-northeast of Mayo (Figure 1). The claim group is located south and west of Fairchild Lake along the north side of the Bonnet Plume River valley. Coordinates for the property are 64°57' north latitude and 133°46' west longitude.



The project area is accessible from Mayo by float plane to Fairchild Lake or by wheeled aircraft to a new 885 metre long, gravel airstrip at Copper Point located in the Bonnet Plume River valley, 15 kilometres downstream from Fairchild Lake. Several other airstrips in the area including Bear River, Wind River, Dolores Creek and Bonnet Plume River Mines are either no longer serviceable or are unsafe for aircraft utilized by mineral exploration companies.

Access during the 1994 field program was by fixed wing aircraft to Copper Point airstrip and base camp. The property was then reached by helicopter, a distance of 14 kilometres east-southeast.

The Wind River winter tote road, originating near Elsa, was built through the project area during the 1950's to access oil and gas exploration sites to the north and in the 1960's was utilized again during work on the Snake River (Crest) iron deposit. In the late 1960's, several spur trails and airstrips were constructed providing access to the Dolores Creek, Wind River, and Bonnet Plume (Hoover) copper prospects and to the Bear River iron deposit. The winter road was used by Pan Ocean Oil during their coal and uranium exploration program near Kiwi Lake in 1979 and 1980. In 1994, Westmin Resources Limited utilized the trail to mobilize equipment to construct the airstrip at Copper Point.

Elevations on the Fair 79-94 claims range from 610 to 823 metres above sea level and relief varies from gentle to moderate. The claim group straddles a north trending ridge draped by glacial cover. The property lies below tree line where the vegetation consists of stunted spruce, wild rose, arctic sage, dwarf alder and willow.

Climate in the area is characterized by six months of cold winter and three to four months of warm to hot summer with May through September as the best months for exploration. The average daily January and July temperatures for Mayo are  $-29^{\circ}\text{C}$  and  $15.2^{\circ}\text{C}$  with annual precipitation of 306.3 millimetres, of which 40% is snow.

## 5.0 AREA AND PROPERTY EXPLORATION HISTORY

### 5.1 Area Exploration History

The first copper occurrences were noted by trappers working in the area at the turn of the century. The Slab mineral showing, located down the Bonnet Plume River valley a short distance, was first staked in 1910. In 1935, the McClusky copper occurrences were staked and the Bonnet Plume and Wind River area received sporadic exploration for copper over the next twenty years. Exploration activity was stimulated in the early 1960s when California Standard Company through their subsidiary, Crest Exploration Limited worked on their world class banded iron deposit in the Snake River area. Drilling outlined 18.6 billion tonnes averaging 47% iron in the Hadrynian Rapitan Group (Yeo, 1986).

In the early 1960s, the first copper showing was found at Dolores Creek by L. Brown. Bonnet Plume River Mines Ltd. conducted exploration from 1967 to 1969, at which time limited diamond drilling was completed (Laznicka and Edwards, 1979).

In 1971, the discovery of zinc-lead showings in the MacKenzie Mountains to the east brought exploration activity to the southeastern portion of the Wernecke Mountains. Continued lead-zinc exploration in the Proterozoic basin led to the discovery of uranium mineralization in 1974 by Archer, Cathro and Associates Ltd. In the period 1975 to 1980, a number of major companies (Urangesellschaft, Noranda) and joint ventures (Wernecke Joint Venture, Mountaineer Mines-Pan Ocean Oil Limited, Prism Joint Venture) were involved in exploration of breccia related uranium mineralization. Also at this time Pan Ocean drilled coal reserves on their lower Bonnet Plume leases to outline in excess of 500 million tonnes of low sulphur, high volatile bituminous coal in Cretaceous strata.

The 1980s saw very limited work throughout the project area. Archer-Cathro, Texaco and Cyprus Gold embarked on limited exploration to test the gold potential of some of the known uranium or copper occurrences.

Recent exploration work in the 1990s has been conducted by BHP Minerals, Kennecott Canada, International Prism Exploration and Fairchild Joint Venture on both copper-gold and zinc-lead targets. At present there are over 2000 quartz claims recorded in the Bonnet Plume River area.

## **5.2 Property Exploration History**

Minfile occurrence 106C/13-007, which lies within the Fair claims, has been previously staked three times. During the period 1967-69, Cyprus Exploration Corporation Limited., through its subsidiary Hercules Exploration Corporation, undertook mapping, soil sampling, magnetic and IP surveys and trenching (Assessment Report 019049). The claims were allowed to lapse and were restaked in 1974 by Magni Development Ltd. Menika Mining Ltd., under option from Magni Developments, performed an airborne magnetic and VLF-EM survey and drilled two holes (138 m) that same year. The diamond drilling was directed at EM anomalies but failed to intersect any significant mineralization. The claims were dropped and the area remained open until 1978, when Energex Minerals Ltd. restaked the occurrence. Mapping, geochemical and radiometric surveys were completed in 1978 (Assessment Report 090445), followed by hand trenching in 1979 (Assessment Report 090596) and orthophoto map preparation, geological mapping, soil geochemistry and geophysics in 1981 (Assessment Report 090830). The work to date has focused on intrusive-hosted copper mineralization on the east side of Fairchild Creek and minor uranium showings on the west side of the creek.

## **5.3 1993 Exploration Program**

During the period June 12-28, Westmin Resources Limited carried out an exploration program on the Fair 1-78 claims, consisting of grid establishment, soil geochemistry, geological mapping, and prospecting (Caulfield, 1993).

Grid establishment included the emplacement of a belt-chained, flagged baseline along a pre-existing claim line with slope corrected, flagged and compassed crosslines. The baseline measured

3.2 kilometres and ten crosslines totalled 7.4 kilometres. A total of 172 grid samples were collected at 50 metre intervals on lines approximately 400 metres apart and along part of the baseline. In addition, a single contour soil line (720 m) was established on the southern part of the property with 30 samples taken every 50 metres. Seven silt samples were collected on the western portion of the property.

In September 1993, an airborne geophysical survey was completed over the present claims area by Newmont Exploration Limited using proprietary company equipment. Survey data collected included magnetometer and radiometric (U, K and Th) data at 1000 metre line spacings. In October 1993, acquisition of the Fair 79-94 mineral claims was completed by staking.

## 6.0 1994 EXPLORATION PROGRAM

On June 26, 1994 preliminary field work totalling four mandays was completed on the Fair 81-85 and 90-94 quartz claims. Geological grid mapping was initiated at 1:5000 scale on five 700 metre, belt-chained and compassed lines, spaced 250 metres apart off a 1.0 kilometre baseline (000°). Five rock and 71 soil samples were collected.

Soil samples were collected every 50 metres with all sample sites being marked by orange and blue flagging tape and in the case of rock sample sites, by metal tag as well. Soil samples were collected from either "A", "B" or "C" horizon material at depths ranging from 5 to 35 cm and placed in numbered kraft envelopes. The sampler recorded notes pertaining to sample horizon, colour, texture, vegetation, and local physiography. Soil samples were partially dried in camp and all samples were then shipped to Chemex Labs of North Vancouver, B.C. for preparation and analysis for gold, lanthanum and 24-elements by ICP geochemistry. Analytical procedures, descriptive rock forms and a complete set of results may found in the appendices.

## 7.0 REGIONAL GEOLOGY

This summary of the regional geology is based on work by Delaney (1985), Thorkelson and Wallace (1994) and by Pamicon Developments Limited (Unpublished 1977). References to earlier work are cited by Delaney. Work by Thorkelson and Wallace (1994) is based on 1:50000 mapping of NTS sheet 106C/13 published jointly by the Yukon and Canadian governments. A complete table of formations including lithologies is presented on the legend following Figure 3. This map is a copy of a portion of Thorkelson and Wallace's 1994 publication.

The Wernecke Mountains are cored by at least 14,000 metres of generally fine-grained terrigenous and carbonate rocks of Helikian age that have been penetrated by hematite breccias and cut by mafic sills and dykes. The entire succession has been named the Wernecke Supergroup and has been divided into three groups (oldest to youngest): Fairchild Lake Group, Quartet Group and Gillespie Lake Group. To the east and south, the Hadrynian Pinguicula Group unconformable overlies the Wernecke Supergroup. Paleozoic strata bound the western margin and Cretaceous and Tertiary sediments fill the area to the north in the Bonnet Plume Basin.

The main structural components of the Wernecke terrane are the southeast trending fault splays (Deslauriers, Knorr, and Snake River faults) of the Richardson Fault array. These faults are interpreted to be deep-seated, long-lived, vertical structures which have undergone considerable right lateral and vertical movement. These faults separate the Wernecke Supergroup from younger Proterozoic rocks to the east. In the western part of the area, Lower Paleozoic rocks unconformably overlie the Wernecke Supergroup, forming spectacular angular unconformities. On a regional scale, sediments dip away from the Bonnet Plume valley causing the Proterozoic rock units to be exposed in a northwest trending anticlinal structure.

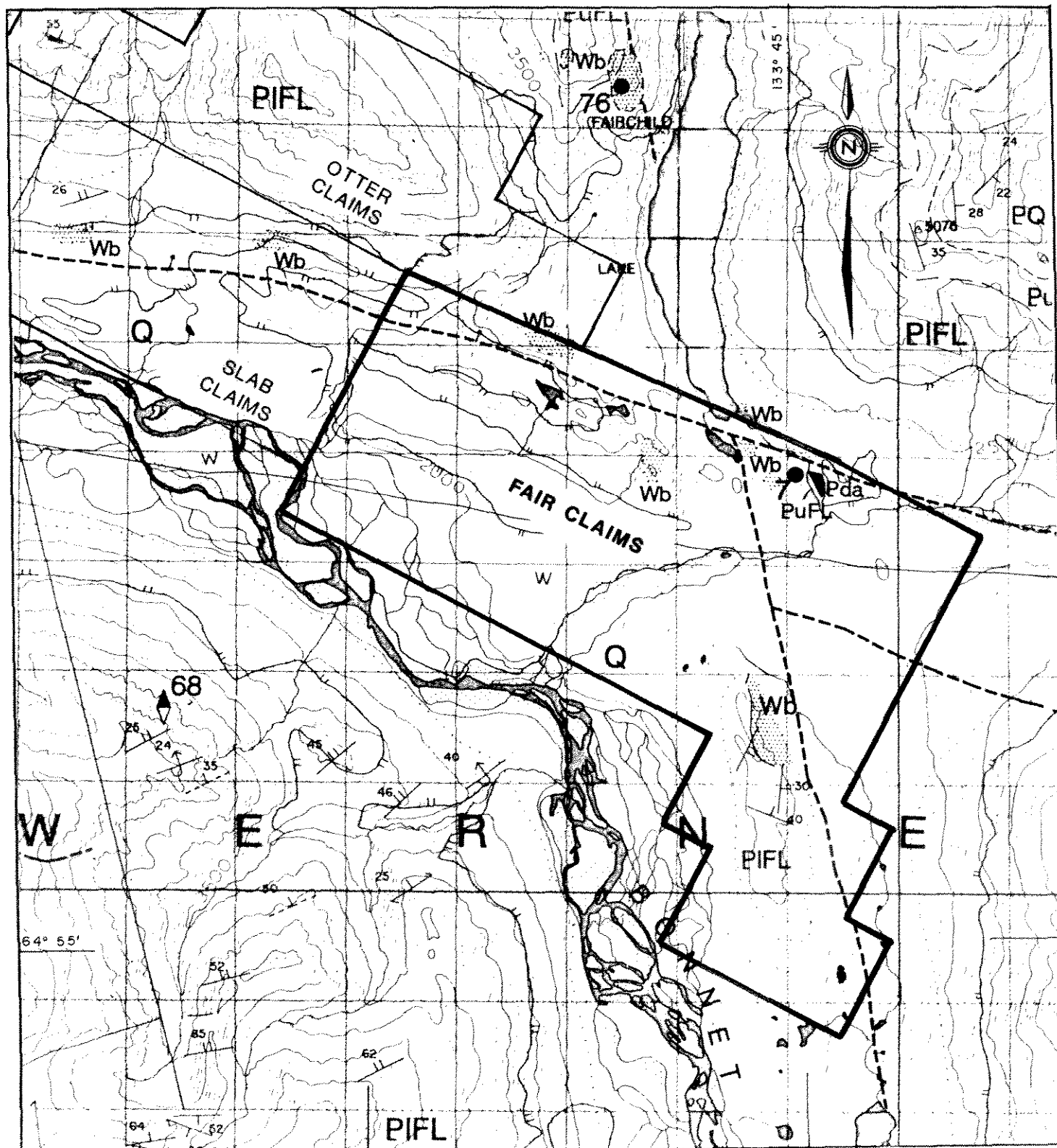
## 8.0 PROPERTY GEOLOGY

The Fair claim group is underlain by a metamorphosed and altered sequence of Fairchild Lake Group sediments, which are cut by heterolithic breccia (Plate 1). The Fairchild Lake Group stratigraphy has been subdivided into interbedded dolomite and siltstone (**Unit dol/slts**), orange weathering dolomite (**Unit dol**), dark grey, fissile siltstone (**Unit slts**) and green phyllite (**Unit ph**). Silica, albite, magnetite and iron carbonate alteration occur in the contact aureole of the heterolithic breccia. Unit **dol/slts** is a dark grey to buff weathering, rhythmic and thin bedded unit of dolomite and siltstone. This unit has a characteristic ribbed texture on weathered surface. In some areas, the individual beds of the **dol/slts** thicken enough to be distinguished as individual units.

Heterolithic breccia (**Unit bht**) is found along the eastern side of the ridge. The sodic breccia is dark grey to brown weathering, often pitted, with subangular clasts up to 50 centimetres. The breccia matrix is a light coloured, coarse- to medium-grained, crystalline mass of intergrown albite, iron carbonate and up to 10% specular hematite. Sediments in contact with the breccia are strongly altered by magnetite, iron carbonate, specular hematite, albite, silica and rarely, sericite. The boundaries of the breccias are often indistinct and grade into marginal homolithic breccia phases (**Unit Bhm**) and crackled sediments.

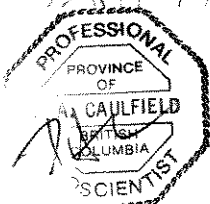
## 9.0 MINERALIZATION

Copper mineralization on the Fair 79-94 claims occurs within sedimentary units adjacent to the sodic breccia (Plate 1). The breccia contains low copper, cobalt and gold values, although the border phase of the breccia may contain disseminated, euhedral pyrite. Chalcopyrite mineralization is localized in dolomite adjacent to the breccia in the area of 6000N, 5300E (#937411- 4710 ppm Cu, 10 ppb Au; #937412- 20 ppm Cu, <5 ppb Au). This mineralization occurs as disseminated to blebby chalcopyrite and pyrite occur in quartz veins and silicified zones within albite, carbonate, magnetite (5-20%) and specular hematite (2-3%) altered dolomite. Similar style copper mineralization is exposed in a limited zone along the bluff at 5875N, 5035E and is concentrated in a large altered block of grey siltstone at 5505N, 5185E (#937375). Sample 937375 returned the highest gold value of 105 ppb and 3080 ppm copper.



Geology by:  
Thorkelson and Wallace (1994).

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WESTMIN RESOURCES, PAMICON DEVELOPMENTS, EQUITY ENGR.  
FAIRCHILD PROJECT, YUKON TERRITORY, CANADA  
MAYO MINING DISTRICT

FAIR 1 - 94 CLAIMS

**REGIONAL GEOLOGY**



N.T.S.: 1:60,000

SCALE: 1:50,000

FIGURE

DATE: NOV., 1994

DRAWN BY:

3

## **LEGEND**

(to follow Figure 3)

### **STRATIFIED ROCKS**

#### Quaternary

**Q** Alluvium, colluvium and glacial deposits

#### Middle to Late Proterozoic

##### **Pinguicula Group**

**PP** Maroon and green weathering siltstone; orange and grey weathering dolostone with minor interbeds of maroon to black siltstone; minor basal greenish grey quartzose sandstone with lenses of conglomerate.

#### Middle Proterozoic

##### **Gillespie Lake Group**

**PGL** Undivided Gillespie Lake Group: orange, brown and grey weathering dolostone and silty dolostone, locally stromatolitic, locally hosting chert nodules and sparry karst infillings, interbedded with subordinate black weathering siltstone and shale, green, grey and brown weathering laminated mudstone, and grey to white weathering quartzose sandstone. Locally developed slaty cleavage in shaley beds. Hosts sedimentary exhalative Zn, Pb, Cu and Ag.

**PGLs** Black weathering siltstone and shale

**PGLb** Basal Gillespie Lake Group: cross laminated, orange weathering silty to sandy dolostone interbedded with black weathering shale and grey to white weathering, quartzose, fine grained sandstone

##### **Quartet Group**

**PQ** Black weathering shale, finely laminated dark grey weathering siltstone, and planar to cross laminated light grey weathering siltstone and fine grained sandstone. In upper part of succession, siltstone and fine grained sandstone interbedded with subordinate orange weathering dolostone grades upward into basal Gillespie Lake Group. Slaty cleavage, crenulation cleavage, and microfolds locally present in shaly units

##### **Fairchild Lake Group**

**PFL** Undivided Fairchild Lake Group: siltstone, fine grained sandstone, laminated limy siltstone, and minor carbonate

**PuFL** Upper Fairchild Lake Group: black weathering siltstone, buff to light grey weathering dolomitic siltstone, orange to brown weathering dolostone, and white weathering dolostone; locally cleaved and crenulated; grades upward into black shale and siltstone of Quartet Group, and downward into lower Fairchild Lake Group

**PIFL** Lower Fairchild Lake Group: Greenish grey to pink and green weathering calcareous laminated siltstone, grey weathering fine grained sandstone, and minor brown weathering carbonate. Siltstone and sandstone are commonly cross-laminated; siltstone is locally cleaved, crenulated and kinked; base not exposed

## INTRUSIVE ROCKS

Middle Proterozoic

### Wernecke breccia

**Wb** Mottled red, green and grey weathering hematitic and dolomitic breccia, and related metasomatized country rock. Breccia contains variably metasomatized clasts of Wernecke Supergroup, and minor dyke rock. Breccia and metasomatites are locally enriched in copper, cobalt, uranium, silver and gold

### Igneous dykes

**Pd** Fine to medium grained, mafic to intermediate dykes. **Pdd**, greenish grey weathering, fine to medium grained diorite to gabbro; **Pda**, grey weathering, biotitic andesite to basalt, locally spherulitic and amygdaloidal

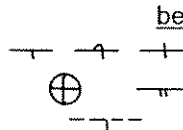
## SYMBOLS



stratigraphic or intrusive contact  
known, approximate, assumed



normal or strike-slip fault (pegs on downthrown side)  
known, approximate, assumed



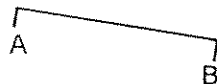
bedding  
inclined, overturned, vertical,  
horizontal, facing unknown  
estimate from airphoto or distant sighting



cleavage  
inclined, vertical



fold  
syncline  
anticline: inclined; overturned



line of cross section

## GEOLOGY

106C/13

After Derek J. Thorkelson and Carol A. Wallace, OPEN FILE 1994-6 (G)  
Exploration and Geological Services Division, Yukon, Indian and Northern  
Affairs Canada.

## 10.0 SOIL GEOCHEMISTRY

The soil geochemical survey was conducted on a grid with 250 metre line separation and 50 metre sample intervals utilizing a 1.0 kilometre baseline oriented 000° (Plates 2 and 3). Soil sample results from the 1993 and 1994 work programs and a stream sediment sample from the government RGS (regional stream geochemical survey, Open File 518) have been displayed with proportional symbols on these two plates. Table 10.0.1 lists statistical levels for the Fairchild Joint Venture for all soil samples (n=4317) taken since 1992.

**TABLE 10.0.1**  
**SOIL GEOCHEMICAL THRESHOLDS-FAIRCHILD PROJECT AREA**

PERCENTILE	COPPER (ppm)	COBALT (ppm)	GOLD (ppb)	RATING
75th	200(54)	40(21)	5(5)	background/high background
90th	500	80	20	high values
97th	1500	175	65	moderately anomalous
99th	3000	300	135	definitely anomalous
				highly anomalous

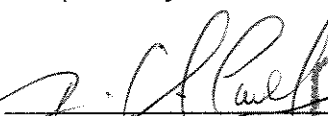

( ) - Comparative values from Fair data set (n=270)

Interpretation of the soil analyses should be made with caution as the eastern grid area overlies till cover. The procurement of some samples was hindered by permafrost development. However, it is apparent from the above table that soil values for the Fair are low overall.

A linear area defined by >50 ppm copper values is coincident with the altered contact of the heterolithic breccia. Individual samples within this trend returned values of 271 and 964 ppm copper. One anomalous sample site occurs outside of this trend at 5000N, 4900E (823 ppm Cu, 132 ppm Co); the source of this anomaly has not been found. Gold values for the 1994 data are all below detection limit.

The single stream sediment sample draining the lakes on the eastern side of the claims returned low copper (34, 38 ppm) and gold (1 ppb) values, both of which would be considered background values in comparison to the government regional geochemical survey.

Respectfully submitted,

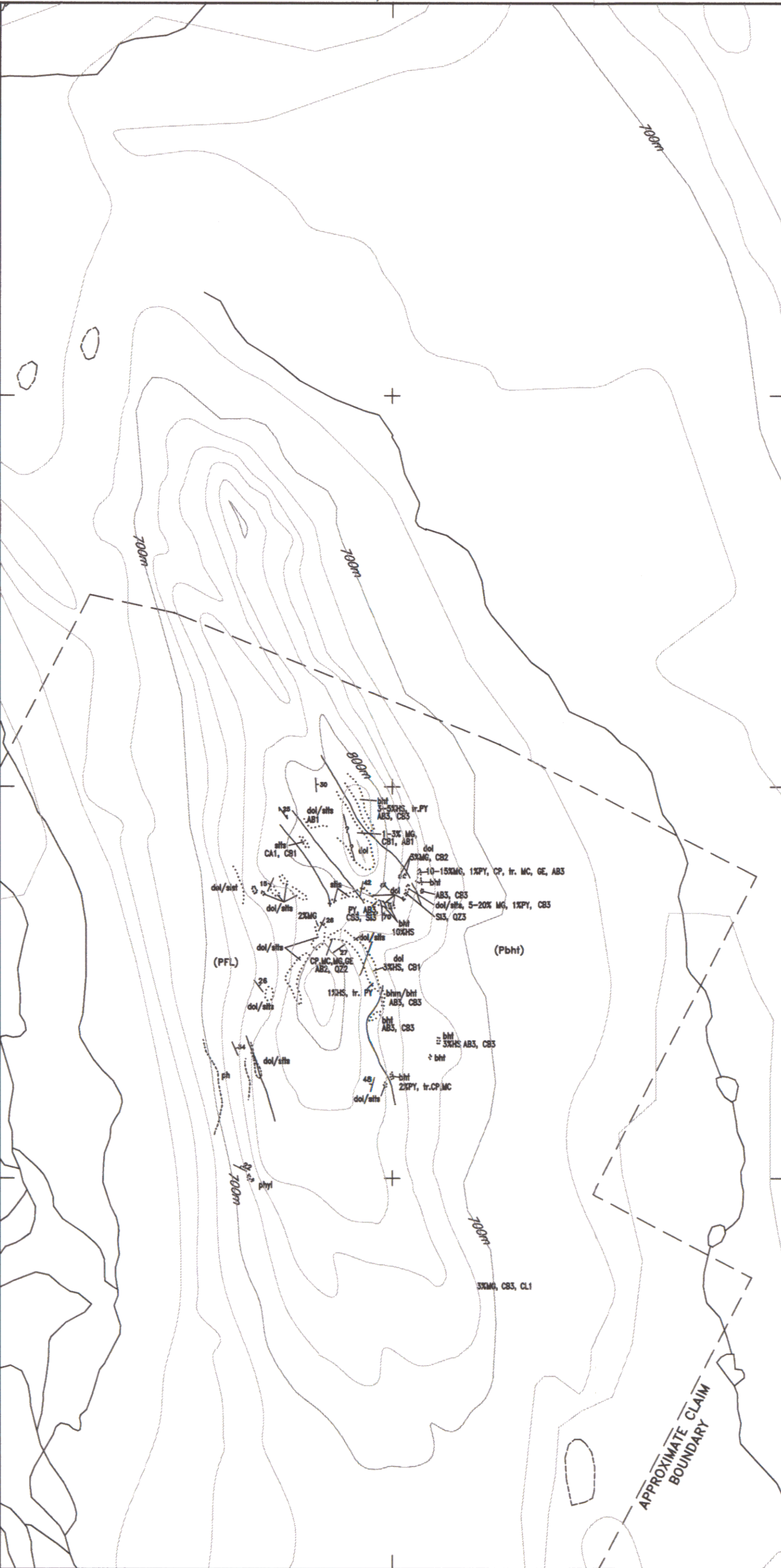
  
  
 David A. Caulfield, P. Geo.  
**EQUITY ENGINEERING LTD.**  
 Vancouver, British Columbia  
 January, 1995

559,000 mE

7,202,000 mN

7,201,000 mN

7,200,000 mN



559,000 mE

7,202,000 mN

7,201,000 mN

7,200,000 mN

### EXPLANATION

#### GEOLOGY

- 55 BEDDING
- 20 FOLIATION
- OUTCROP
- CONTACT

#### LITHOLOGY

- dol Dolomite
- bht Heterolithic Breccia
- bhm Homolithic Breccia
- silt Siltstone
- ph Phyllite
- dol/silt Interbedded Dolomite and Siltstone

#### ALTERATION

- MS Sericite
- SI Silica
- CA Calcite
- HS Specularite
- CB Carbonate
- MG Magnetite
- CL Chlorite
- AB Albite

#### Sulfides

- CP Chalcopyrite
- PY Pyrite

#### Oxides and Sulfates

- MC Malachite
- GE Goethite

- 1 - Weak (w)
- 2 - Moderate (m)
- 3 - Strong (s)

#### INTERPRETED GEOLOGY

- FAIRCHILD LAKE GROUP (MIDDLE PROTEROZOIC)
- Pwb WERNECKE BRECCIA, UNDIFFERENTIATED
- Pbh HETEROLITHIC BRECCIA
- Pbh HOMOLITHIC BRECCIA

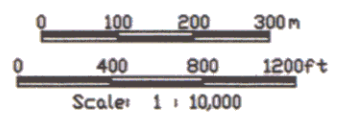
MAP AREA:  
 X: 558000 - 560000  
 Y: 7198000 - 7203000  
 Z: 0 - 10000  
 Units are meters.



Grid North

Magnetic Declination for the center of this map is: 31° 35' East of True North

Grid North is 1° 7.9' East of True North for center of map  
 NTS Map 106 C/13



## NEWMONT EXPLORATION LTD.

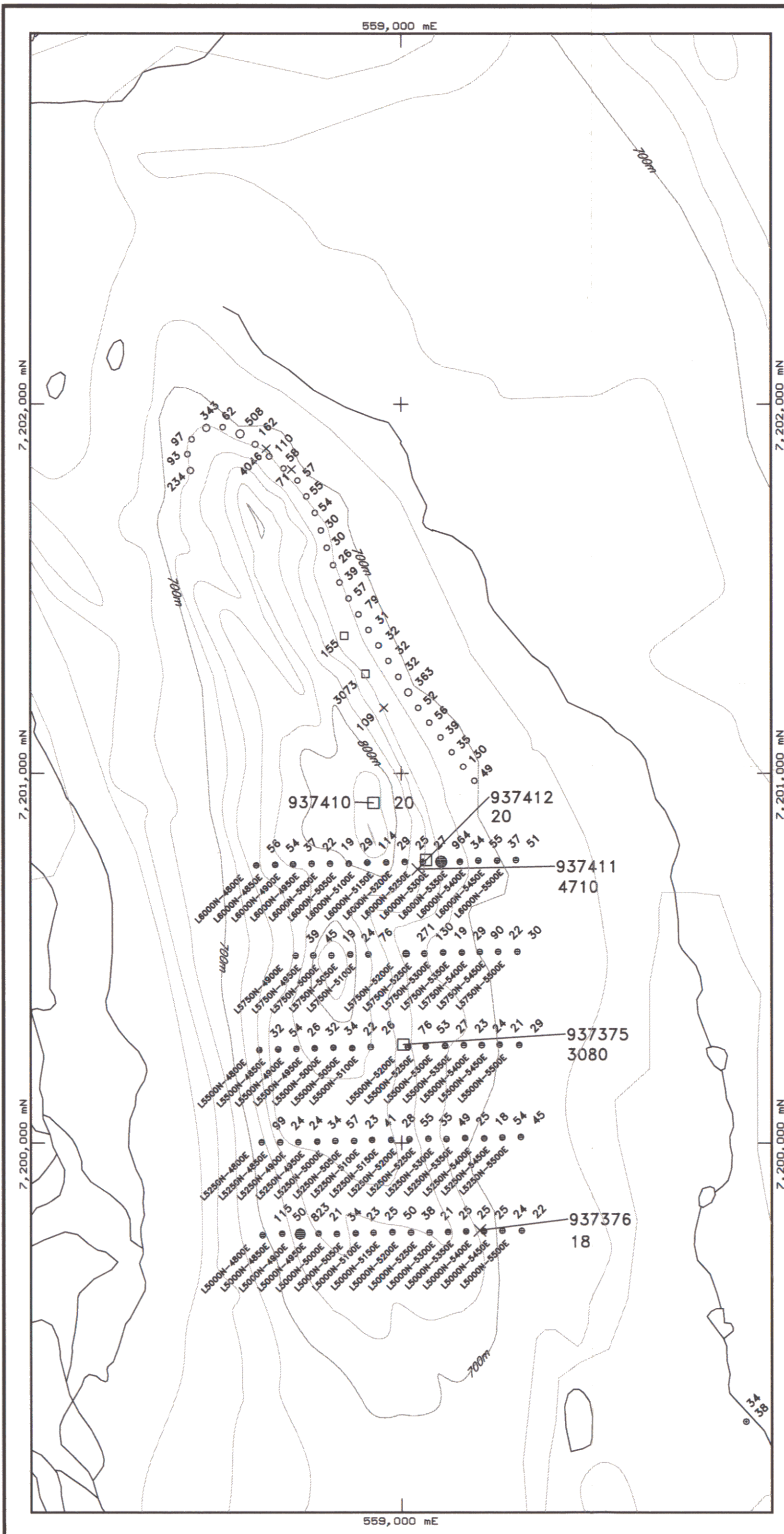
WESTMIN RESOURCES, PAMICON DEVELOPMENTS, EQUITY ENGR.

FAIRCHILD PROJECT, YUKON TERRITORY, CANADA  
MAYO MINING DISTRICT

### PLATE 1 FAIR 79-94 CLAIMS SIMPLIFIED GEOLOGY MAP

DWG 1

Compiled By: D. CAULFIELD	Date Drafted: 11/94	Coordinate System: UTM ZONE 8
Drafted By: KADTEC SYSTEMS	File Name: FR -GEO.DWG	Contour Interval: 20M



### Cu Geochemistry

Pre 94 | 1994 Samples

float  
 X value | Sample No. | X value (ppm)

grab  
 □ value | Sample No. | □ value

chip  
 ○ value | Sample No. | ○ value

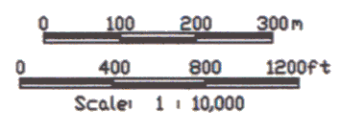
channel  
 ■ value | Sample No. | ■ value

Soils  
 ○ value | Sample No. | ○ value (ppm)

MAP AREA:  
 X: 558000 - 560000  
 Y: 7199000 - 7203000  
 Z: 0 - 10000  
 Units are meters.



Magnetic Declination for the center of this map is: 31° 35' East of True North  
 Grid North is 1° 7.9' East of True North for center of map  
 NTS Map 106 C/13



**NEWMONT EXPLORATION LTD.**  
 WESTMIN RESOURCES, PAMICON DEVELOPMENTS, EQUITY ENGR.  
 FAIRCHILD PROJECT, YUKON TERRITORY, CANADA  
 MAYO MINING DISTRICT

PLATE 2  
**FAIR 1-94 CLAIMS**  
 Cu IN ROCKS  
 AND SOILS

DWG 2

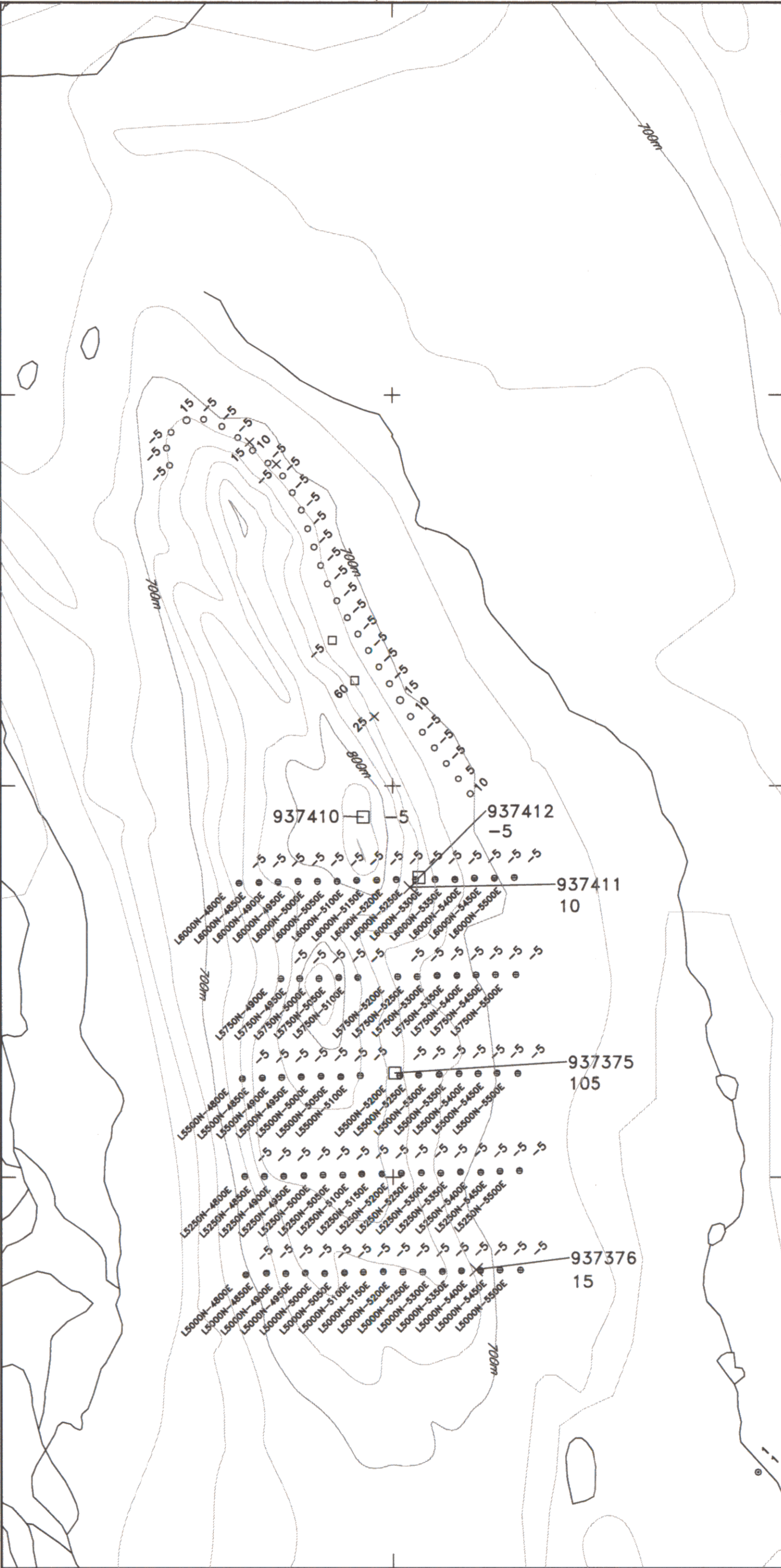
Compiled By: D. CAULFIELD	Date Drafted: 11/94	Coordinate System: UTM ZONE 8
Drafted By: N. MERRITT	File Name: FR_CUR.DWG	Contour Interval: 20M

559,000 mE

7,202,000 mN

7,201,000 mN

7,200,000 mN



559,000 mE

7,202,000 mN

7,201,000 mN

7,200,000 mN

### Au Geochemistry

Pre 94	1994 Samples
--------	--------------

float	
X value	Sample No. X value (ppb)

grab	
□ value	Sample No. □ value

chip		Rocks
▣ value	Sample No. ▣ value	

channel	
■ value	Sample No. ■ value

	Sample No.		Soils
--	------------	--	-------

MAP AREA:  
 X: 558000 - 560000  
 Y: 7198000 - 7203000  
 Z: 0 - 10000  
 Units are meters.



Grid North

Magnetic Declination for the center of this map is: 31° 35' East of True North

Grid North is 1° 7.9' East of True North for center of map  
 NTS Map 106 C/13



093264

0 100 200 300m  
 0 400 800 1200ft  
 Scale: 1 : 10,000

**NEWMONT EXPLORATION LTD.**  
 WESTMIN RESOURCES, PAMICON DEVELOPMENTS, EQUITY ENGR.  
 FAIRCHILD PROJECT, YUKON TERRITORY, CANADA  
 MAYO MINING DISTRICT

PLATE 3  
**FAIR 79-94 CLAIMS**

Au IN ROCKS  
 AND SOILS

DWG3

Compiled By: D. CAULFIELD	Date Drafted: 11/94	Coordinate System: UTM ZONE 8
Drafted By: N. MERRITT	File Name: FR_AUR.DWG	Contour Interval: 20M

APPENDIX A

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APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

Tom Bell (Prospector)  
207, 675 West Hastings Street  
Vancouver, B.C. V6B 1N2

Roy Buyck (Sampler)  
Box 64  
Mayo, Yukon Y0B 1M0

David Caulfield (Sr. Geologist)  
207, 675 West Hastings Street  
Vancouver, B.C. V6B 1N2

Cyndi Lisson (Cook)  
163 Dalton Terrace  
Whitehorse, Yukon Y1A 3G2

Kelly Owerko (Sr. Geologist)  
207-675 W. Hastings Street  
Vancouver, B.C. V6B 1N2.

Melanie Rose (Bull cook)  
Box 92  
Carcross, Yukon Y0B 1B0

Michael Stammers (Sr. Geologist)  
711, 675 West Hastings Street  
Vancouver, B.C. V6B 1N2

APPENDIX C

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES  
FAIR 1 - 24 MINERAL CLAIMS**

**CANADA** -- In the matter of geological and geochemical assessment work filed on the  
Fair 1 - 24 Mineral Claims

I, Michael A. Stammers agent for Westmin Resources Limited, 904, 1055 Dunsmuir Street, Vancouver, B.C. do solemnly declare that a program consisting of geological mapping and geochemical survey work was carried out on the Fair 81-85 and 90-94 Mineral Claims during the period June 1 to 30, 1994.

The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

**PROFESSIONAL FEES AND WAGES:**

Michael A. Stammers, P. Geo.		
2 days @ \$375/day	\$	750.00
David A. Caulfield, P. Geo.		
1 day @ \$375/day		375.00
Tom Bell, Prospector		
1 day @ \$250/day		250.00
Roy Bycke, Sampler		
1.0 day @ \$200/day		200.00
Prorated Wages		<u>365.02</u>
		\$1940.02

**EXPENSES:**

Rentals - Base Camp	\$	41.48
Rentals - Truck		5.57
Rentals - Gen. Set Small		1.39
Rentals - Gen. Set Large		24.12
Rentals - 2 x Base Radio		5.84
Rentals - 2 x Hand Radio		1.04
Rentals - Office		6.96
Rentals - ATV		12.06
Rentals - Chain Saw		1.99
Rentals - Const. Tools		.81
Electrical - L & L Electrical		6.16
Photocopies		.44
Reproductions		.19
Maps & Photos		70.74
Ortho Photos		15.21
Materials & Supplies		16.27

Expediting	24.51	
Telephone - Long Distance	7.46	
Telephone - Space Tel	85.14	
Camp Expendibles	4.28	
Camp Building Materials	63.53	
Camp Food	97.94	
Camp Propane	2.79	
Camp Fuel - Oil	2.11	
Camp Fuel - Gas	.62	
Field Expendibles	96.06	
Truck Rental - K. Milledge	4.31	
Radio Rental - Motorola	7.07	
Travel - Hotel	23.31	
Travel - Meals	5.19	
Travel - Airfare	42.03	
Travel - Auto	4.30	
Travel - Misc.	.87	
Freight - Air	11.86	
Freight - Truck	58.83	
Freight - Courier	1.84	
Fuel - Cat	38.96	
Fuel - Helicopter	97.42	
Drum Deposit	65.30	
Licenses - Radio	.43	
Legals - Notary	.58	
Misc. Expense - Summit Air	<u>27.91</u>	\$ 984.93

**INDIRECT CHARGE:**

Assays - Chemex Storage	4.06	
Assays - Chemex Lab	320.00	
Helicopter - Prorated	91.67	
Helicopter 1.8 Hrs @ \$540	972.00	
Fixed Wing	461.72	
Cat Charges	30.61	
Report	<u>1000.00</u>	\$2880.06
Management Fees:		
Direct Charges @ 15%	438.74	
Direct Charges @ 7%	<u>201.60</u>	\$ 640.34

**TOTAL: \$6,445.35**

Notes:

1. Wages are based on actual man days spent on the property.
2. Helicopter charges are based on actual hours flown.
3. Assay charges are based on actual numbers of samples from the property.
4. General expenses (all other costs) are prorated according to man days allocated to each property.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Dated at Vancouver in the Province of British Columbia this 30 day of January, 1995.



Michael A. Stammers, P. Geo.



APPENDIX D

ROCK SAMPLE DESCRIPTIONS

### MINERALS AND ALTERATION TYPES

AB	albite	AD	adularia	AK	ankerite
AS	arsenopyrite	AZ	azurite	BA	barite
BI	biotite	BO	bornite	BR	brannerite
CA	calcite	CB	Fe-carbonate	CC	chalcocite
CL	chlorite	CO	cobaltite	CP	chalcopyrite
CY	clay	DI	diopside	DO	dolomite
EP	epidote	ER	erythrite	GA	garnet
GE	goethite	GL	galena	GR	graphite
HE	hematite	HS	specularite	JA	jarosite
KF	potassium feldspar	MC	malachite	MG	magnetite
MN	Mn-oxides	MR	mariposite	MS	muscovite/sericite
NE	neotocite	PO	pyrrhotite	PY	pyrite
QZ	quartz	SI	silica	SP	sphalerite
TT	tetrahedrite				

### ALTERATION INTENSITIES

m	medium	s	strong	tr	trace
vs	very strong	vw	very weak	w	weak

Property : Fair

NTS : 106C/13

Date : January 12, 1995

Sample No. UTM : 7200266 N Type : Grab Alteration : mCL Au Ag Co Cu Pb Zn  
 559005 E Strike Length Exp. : 8 m Metallics : trCP, 2%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)  
 937375 Elevation: Sample Width : 1 m Secondaries: wMC 105 0.2 15. 3080 2. 30  
 Orientation: / True Width : ? m Host : Dark grey siltstone/mudstone

Comments : Chalcopyrite and pyrite are disseminated. Malachite on rock surface and in fractures. Chlorite occurs as veinlets and on fracture surfaces. 55+05N, 51+85E.

Sample No. UTM : 7199764 N Type : Float Alteration : sCB, wCL Au Ag Co Cu Pb Zn  
 559211 E Strike Length Exp. : 10 m Metallics : 3%MG (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)  
 937376 Elevation: 690 m Sample Width : m Secondaries: None 15 0.2 3. 18. 2. 30  
 Orientation: / True Width : m Host : Heterolithic breccia (leucocratic)

Comments : Clasts are carbonate altered as is matrix. Large rubbly boulders - not far from source. 50+00N, 53+85E.

Sample No. UTM : 7200920 N Type : Grab Alteration : sCB, mAB, mMS Au Ag Co Cu Pb Zn  
 558926 E Strike Length Exp. : 30 m Metallics : 3%HS, trPY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)  
 937410 Elevation: 820 m Sample Width : 7.0 m Secondaries: None <5 0.2 5. 20. 2. <10  
 Orientation: / True Width : 7.0 m Host : Albite and iron carbonate altered heterolithic brecc.

Comments : Heterolithic breccia in contact with carbonate, sericite altered dolomitic siltstone. 61+60N, 51+20E.

Sample No. UTM : 7200740 N Type : Float Alteration : mCB, mQZ, mSI Au Ag Co Cu Pb Zn  
 559044 E Strike Length Exp. : m Metallics : 1%CP, 2%HS, 5%MG, 1%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)  
 937411 Elevation: 770 m Sample Width : m Secondaries: wGE, wJA, wMC 10 0.2 29. 4710 2. 60  
 Orientation: / True Width : m Host : Quartz veined, silicified dolomite?

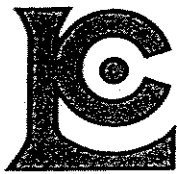
Comments : MG is disseminated and in fractures; HS occurs in coarse aggregates in late fractures. Chalcopyrite, pyrite occur as disseminations and blebs in silicified veined material. Sample selected from best copper mineralization. 59+80N, 52+35E.

Sample No. UTM : 7200766 N Type : Grab Alteration : sCB, wQZ, mSI, ?AB Au Ag Co Cu Pb Zn  
 559067 E Strike Length Exp. : >25 m Metallics : trCP, 2%HS, 15%MG, 1%PY (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)  
 937412 Elevation: 740 m Sample Width : 3.0 m Secondaries: wGE, trMC <0.005 0.2 81. 20. 2. <10  
 Orientation: / True Width : ? m Host : Well altered dolomite/microbreccia

Comments : Silicified unit with strong magnetite and minor specular hematite mineralization. In certain areas, outcrop has microbrecciated texture. 60+10N, 52+60E.

APPENDIX E

CERTIFICATES OF ANALYSIS  
AND  
ANALYTICAL PROCEDURES



# Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Phone: (604) 984-0221  
Telex: 043-52597

## CHEMEX LABS LTD ANALYTICAL PROCEDURES

### 1. TRACE ANALYSIS

#### Gold

#### Fire Assay Collection/ Atomic Absorption Spectroscopy (FA-AA)

Chemex Code: 983

A 30g sample is fused with a neutral lead oxide flux inquarted with 6mg of gold-free silver and then cupelled to yield a precious metal bead.

These beads are digested for 30 mins in 0.5ml concentrated nitric acid, then 1.5ml of concentrated hydrochloric acid are added and the mixture is digested for 1 hr. The samples are cooled, diluted to a final volume of 5ml, homogenized and analyzed by atomic absorption spectroscopy.

Detection limit: 5 ppb

Upper Limit: 10,000 ppb

Arsenic ppm - Chemex Code 13

A 1.0 gram sample is digested with  $\text{HNO}_3$  - aqua regia acids for approximately 2 hours. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified and reduced with  $\text{NaBH}_4$  and arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm



# Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Phone: (604) 984-0221

Telex: 04-352597

Fax: (604) 984-0218

## 24-Element Geochemistry Package (24-ICP)

### Inductively-Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

The 24 element rock geochemistry package provides quantitative analysis of all major elements (except silicon) as well as most important trace elements.

A prepared sample (0.50g) is digested with perchloric, nitric and hydrofluoric acids to dryness. The residue is taken up in a volume of 25ml of 10% hydrochloric acid and the resulting solution is analyzed by inductively-coupled plasma atomic emission spectroscopy. Results are corrected for spectral interelement interferences. For this project only uranium and lanthanum were also analyzed.

Chemex Code	Element	Detection Limit	Upper Limit
573	Aluminum	0.01 %	15 %
565	Barium	10 ppm	1 %
575	Beryllium	0.5 ppm	0.01 %
561	Bismuth	2 ppm	1 %
576	Calcium	0.01 %	25 %
562	Cadmium	0.5 ppm	0.05 %
569	Chromium	1 ppm	1 %
563	Cobalt	1 ppm	1 %
577	Copper	1 ppm	1 %
566	Iron	0.01 %	15 %
560	Lead	2 ppm	1 %
570	Magnesium	0.01 %	15 %
568	Manganese	5 ppm	1 %
554	Molybdenum	1 ppm	1 %
564	Nickel	1 ppm	1 %
559	Phosphorus	10 ppm	1 %
584	Potassium	0.01 %	10 %
578	Silver	0.5 ppm	0.02 %
583	Sodium	0.01 %	10 %
582	Strontium	1 ppm	1 %
579	Titanium	0.01 %	10 %
556	Tungsten	10 ppm	1 %
572	Vanadium	1 ppm	1 %
558	Zinc	2 ppm	1 %
	Uranium	10 ppm	1 %
	Lanthanum	10 ppm	1 %



# Chemex Labs Ltd.

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Geochemists

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## PREPARATION METHODS

### 201 - DRY, SIEVE TO -80 MESH

a) Geochemical soil/silt samples are usually received in High/wet-strength 4x6 soil gusset bags. Sample sets are ordered, and dried for 12 to 24 hours at 50 deg. C.

b) The dried sample is hammered, to desegregate the soil particles, and then poured from the gusset bag into an 8 inch dia. 80 mesh stainless steel screen.

c) The sieve is shaken horizontally over a large clean piece of paper, where the -80 mesh fraction accumulates. When all the -80 fraction has passed through the sieve the +80 portion is discarded.

d) The -80 fraction is poured into a 2x3 coin envelope, which contains the exact same number as the submitted sample, for distribution to the analytical lab.

### 202 - DRY, SIEVE TO -80 MESH, SAVE +80 FRACTION

a) and b) see sections a) and b) of 201 c) The sieve is shaken horizontally over a large clean piece of paper, where the -80 mesh fraction accumulates. When all the -80 fraction has passed through the sieve the +80 portion is poured into a new 4x6 gusset bag (which contains the same number as the submitted sample), boxed, and filed. d) The -80 fraction is poured into a 2x3 coin envelope, which contains the exact same number as the submitted sample, for distribution to the analytical lab.

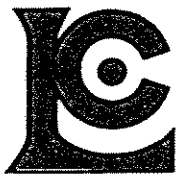
### 203 - DRY, SIEVE TO -35 MESH

a) Geochemical soil/silt samples are usually received in High/wet-strength 4x6 soil gusset bags. Sample sets are ordered, and dried for 12 to 24 hours at 50 deg. C.

b) The dried sample is hammered, to desegregate the soil particles, and then poured from the gusset bag into an 8 inch dia. 35 mesh stainless steel screen.

c) The sieve is shaken horizontally over a large clean piece of paper, where the -35 mesh fraction accumulates. When all the -35 fraction has passed through the sieve the +35 portion is discarded.

d) The -35 fraction is put into a ring grinder and rung to approximately 150 mesh. The pulp is put into a 2x3 coin envelope (same sample numbered envelope) for distribution to the analytical lab.



# Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Phone: (604) 984-0221  
Telex: 043-52597

## PREPARATION METHODS - ROCK/ORE

### 205 - GEOCHEM RING

a) Samples arrive in poly or olefin rock bags. Samples are ordered prior to crushing.

b) The sample is poured into a primary jaw, and crushed to approximately 1/4 inch. This is secondary crushed in a roll crusher to approximately 10 mesh.

c) The crushed sample is then split using a Jones Riffle splitter to approximately 200 to 250 grams. The reject is poured into the original bag for storage, or return to client.

d) The sample split is put into a Rocklabs (large ring) ring mill, and rung to approximately 150 mesh. The pulped sample is poured into a 4x6 tin-top bag, (which has been labeled with the original number), for distribution to the analytical lab.

### 217 - GEOCHEM RING - ENTIRE SAMPLE (Used for samples 200 grams or less)

a) The entire sample is put into a Rocklabs (large ring) ring mill, and rung to approximately 150 mesh. The pulped sample is poured into a 4x6 tin-top bag (correctly labeled), for distribution to the analytical lab.

### 208 - ASSAY RING

a) Samples arrive in poly or olefin rock bags. Samples are ordered prior to crushing.

b) The sample is poured into a primary jaw, and crushed to approximately 1/4 inch. This is secondary crushed in a roll or cone crusher to approximately 10 mesh.

c) The crushed sample is then split using a Jones Riffle splitter to approximately 200 to 250 grams. The reject is poured into the original bag for storage, or return to client.

d) The sample split is put into a Rocklabs (large ring) ring mill, and rung to approximately 150 mesh. The pulped sample is poured into a 4x6 tin-top bag, (which has been labeled with the original number), sealed prior to being distributed to the analytical lab.

207 - ASSAY ROTARY PULVERIZE

a) and b) - see sections a) and b) under 208 c) The crushed sample is then split using a Jones Riffle splitter to approximately 250 to 350 grams. The reject is poured into the original bag for storage, or return to client. d) The sample split is ground in a Bico rotary pulverizer and screened to 140 mesh. The +140 material is visually inspected for metallics. e) If NO metallics are found, then the +140 fraction is hand ground to -140. The entire sample is then homogenized (by rolling). f) IF metallics are found, they are put into a separate coin envelope, kept with the original sample, and fused separately. The entire -140 fraction is homogenized.



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To: PAMICON DEVELOPMENTS LIMITED  
WESTMIN PROJECT  
711 - 675 W. HASTINGS ST.  
VANCOUVER, BC  
V6B 1N4

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 18-JUL-94  
Invoice No. : 19419984  
P.O. Number :  
Account : BM W

Project : FAIRCHILD-FAIR  
Comments: CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

## CERTIFICATE OF ANALYSIS A9419984

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
937375	205 294	105	< 0.2	9.47	100	< 0.5	< 2	1.72	< 0.5	15	76	3080	4.41	0.37	1.24
937376	205 294	15	< 0.2	6.78	30	< 0.5	< 2	2.19	< 0.5	3	78	18	3.44	0.08	0.57
937410	205 294	< 5	< 0.2	6.86	270	0.5	< 2	5.12	< 0.5	5	70	20	3.97	1.71	2.09
937411	205 294	10	< 0.2	7.66	1070	2.0	< 2	0.66	< 0.5	29	105	4710	4.51	3.30	0.66
937412	205 294	< 5	< 0.2	5.53	980	0.5	< 2	2.33	< 0.5	81	52	20	23.3	2.16	1.08

CERTIFICATION:

*Hart Bichler*



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Page Number : 1-B  
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Project : FAIRCHILD-FAIR  
Comments: CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

## CERTIFICATE OF ANALYSIS A9419984

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	La ppm ICP		
937375	205 294	1230	< 1	5.48	63	460	< 2	51	0.17	50	< 10	28	30		
937376	205 294	1435	< 1	4.68	17	590	< 2	31	0.10	27	< 10	10	30		
937410	205 294	3230	< 1	3.32	7	700	< 2	66	0.17	60	< 10	18	< 10		
937411	205 294	690	3	1.28	28	1480	< 2	25	0.35	211	< 10	26	60		
937412	205 294	2910	< 1	1.32	89	570	< 2	51	0.14	287	< 10	16	< 10		

CERTIFICATION: Hart Beckler



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Page Number : 2-A  
 Total Pages : 2  
 Certificate Date: 18-JUL-94  
 Invoice No. : I9419983  
 P.O. Number :  
 Account : BM W

Project : FAIRCHILD-FAIR  
 Comments : CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

## CERTIFICATE OF ANALYSIS A9419983

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
L5500N 5350E	201 285	< 5	< 0.2	5.69	490	1.0	< 2	0.69	< 0.5	11	60	23	3.52	1.94	0.81
L5500N 5400E	201 285	< 5	< 0.2	5.87	550	1.0	2	1.46	< 0.5	11	77	24	3.14	2.05	0.90
L5500N 5450E	201 285	< 5	< 0.2	4.20	380	1.0	< 2	3.13	< 0.5	8	38	21	2.30	1.77	2.15
L5500N 5500E	201 285	< 5	< 0.2	4.15	380	1.0	< 2	7.98	< 0.5	8	37	29	2.58	1.92	4.39
L5750N 4900E	201 285	< 5	< 0.2	6.14	810	1.0	< 2	1.83	< 0.5	18	53	39	3.60	2.25	1.01
L5750N 4950E	201 285	< 5	< 0.2	3.93	530	1.0	< 2	2.69	1.0	18	35	45	3.15	1.24	0.57
L5750N 5000E	201 285	< 5	< 0.2	1.88	220	0.5	< 2	3.78	< 0.5	3	20	19	1.13	0.50	0.41
L5750N 5050E	201 285	< 5	< 0.2	4.20	640	1.0	< 2	2.17	< 0.5	12	68	24	2.32	2.01	0.52
L5750N 5100E	201 285	< 5	< 0.2	3.75	380	1.0	< 2	2.30	< 0.5	11	36	76	2.32	1.13	0.64
L5750N 5200E	203 205	< 5	< 0.2	2.96	300	1.0	< 2	2.99	< 0.5	12	40	271	1.88	0.86	0.64
L5750N 5250E	203 205	< 5	< 0.2	1.31	300	< 0.5	< 2	4.93	< 0.5	6	33	130	0.85	0.42	0.55
L5750N 5300E	201 285	< 5	< 0.2	5.68	570	1.0	< 2	0.75	< 0.5	13	53	19	3.70	1.68	0.88
L5750N 5350E	201 285	< 5	< 0.2	4.83	450	1.0	< 2	1.21	< 0.5	9	42	29	2.75	1.80	0.77
L5750N 5400E	201 285	< 5	< 0.2	1.11	270	1.0	< 2	4.27	< 0.5	4	14	90	1.48	0.35	0.57
L5750N 5450E	201 285	< 5	< 0.2	4.68	350	1.0	< 2	3.53	< 0.5	7	44	22	2.60	1.87	2.46
L5750N 5500E	201 285	< 5	< 0.2	5.05	550	1.0	< 2	4.12	< 0.5	9	46	30	2.90	2.03	2.81
L6000N 4800E	201 285	< 5	< 0.2	4.84	520	1.0	< 2	5.66	< 0.5	13	47	56	2.84	1.66	3.51
L6000N 4850E	201 285	< 5	< 0.2	5.19	610	1.0	< 2	3.53	< 0.5	24	49	54	3.39	1.82	1.37
L6000N 4900E	201 285	< 5	< 0.2	5.18	560	1.0	< 2	3.07	< 0.5	15	50	37	3.03	1.75	1.22
L6000N 4950E	201 285	< 5	< 0.2	5.57	600	1.0	< 2	0.76	< 0.5	11	48	22	3.37	1.85	0.81
L6000N 5000E	201 285	< 5	< 0.2	5.89	570	1.0	< 2	0.63	< 0.5	16	50	19	4.06	1.83	0.81
L6000N 5050E	203 205	< 5	< 0.2	1.97	280	0.5	< 2	4.04	< 0.5	5	36	29	1.21	0.56	0.53
L6000N 5100E	201 285	< 5	< 0.2	5.67	560	1.0	< 2	1.40	< 0.5	15	52	114	3.66	1.46	0.78
L6000N 5150E	201 285	< 5	< 0.2	5.94	550	1.0	< 2	1.10	< 0.5	16	54	29	3.91	1.54	0.81
L6000N 5200E	201 285	< 5	< 0.2	4.86	530	1.0	< 2	4.14	< 0.5	11	47	25	3.18	1.76	1.77
L6000N 5250E	201 285	< 5	< 0.2	6.01	540	1.0	< 2	1.18	< 0.5	15	54	27	4.65	1.66	0.90
L6000N 5300E	201 285	< 5	< 0.2	5.15	560	1.0	< 2	1.83	< 0.5	50	44	964	4.11	1.74	0.82
L6000N 5350E	201 285	< 5	< 0.2	4.48	450	1.0	< 2	6.52	< 0.5	12	39	34	2.49	1.93	3.62
L6000N 5400E	201 285	< 5	< 0.2	5.60	500	1.0	< 2	1.89	< 0.5	12	52	55	3.21	2.00	1.47
L6000N 5450E	201 285	< 5	< 0.2	5.72	540	1.0	< 2	0.87	< 0.5	12	55	37	3.42	1.82	0.87
L6000N 5500E	201 285	< 5	0.4	5.86	730	1.0	< 2	1.10	< 0.5	14	55	51	3.73	1.96	0.90

CERTIFICATION:

*Hart Buchler*



# Chemex Labs Ltd.

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 PHONE: 604-984-0221

To: PAMICON DEVELOPMENTS LIMITED  
 WESTMIN PROJECT  
 711 - 675 W. HASTINGS ST.  
 VANCOUVER, BC  
 V6B 1N4

Page Number : 2-B  
 Total Pages : 2  
 Certificate Date: 18-JUL-94  
 Invoice No. : 19419983  
 P.O. Number :  
 Account : BM W

Project : FAIRCHILD-FAIR  
 Comments : CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

## CERTIFICATE OF ANALYSIS A9419983

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	La ppm ICP		
L5500N 5350E	201 285	750	2	0.64	24	360	24	63	0.40	99	< 10	92	30		
L5500N 5400E	201 285	565	< 1	0.61	26	510	20	67	0.30	100	< 10	122	20		
L5500N 5450E	201 285	490	< 1	0.42	16	430	20	39	0.19	62	< 10	90	< 10		
L5500N 5500E	201 285	795	< 1	0.40	17	400	16	58	0.16	61	< 10	86	< 10		
L5750N 4900E	201 285	2640	1	0.59	31	720	20	77	0.21	78	< 10	140	30		
L5750N 4950E	201 285	4650	< 1	0.43	26	1000	24	89	0.15	59	< 10	422	< 10		
L5750N 5000E	201 285	245	< 1	0.17	9	680	12	74	0.10	39	< 10	74	< 10		
L5750N 5050E	201 285	1890	< 1	0.63	16	630	14	55	0.18	56	< 10	96	< 10		
L5750N 5100E	201 285	920	< 1	0.37	17	680	20	69	0.17	64	< 10	110	< 10		
L5750N 5200E	203 205	775	1	0.18	15	860	16	48	0.10	47	< 10	82	< 10		
L5750N 5250E	203 205	2810	< 1	0.12	10	740	8	85	0.06	28	< 10	82	< 10		
L5750N 5300E	201 285	890	< 1	0.60	24	210	30	63	0.25	94	< 10	118	20		
L5750N 5350E	201 285	620	< 1	0.52	18	410	22	58	0.21	79	< 10	134	20		
L5750N 5400E	201 285	1075	< 1	0.09	9	980	6	68	0.04	21	< 10	72	< 10		
L5750N 5450E	201 285	455	< 1	0.47	17	480	20	51	0.23	74	< 10	92	< 10		
L5750N 5500E	201 285	820	< 1	0.55	20	510	26	56	0.23	79	< 10	118	< 10		
L6000N 4800E	201 285	1005	1	0.71	23	690	24	93	0.22	83	< 10	116	< 10		
L6000N 4850E	201 285	1440	< 1	0.70	29	840	22	90	0.25	77	< 10	94	< 10		
L6000N 4900E	201 285	1100	< 1	0.61	24	530	20	78	0.35	86	< 10	108	< 10		
L6000N 4950E	201 285	850	1	0.69	22	340	20	67	0.23	85	< 10	98	20		
L6000N 5000E	201 285	1545	< 1	0.61	29	400	26	63	0.24	91	< 10	100	30		
L6000N 5050E	203 205	1010	< 1	0.18	10	960	14	83	0.10	41	< 10	130	< 10		
L6000N 5100E	201 285	1470	< 1	0.62	26	530	32	83	0.22	100	< 10	120	20		
L6000N 5150E	201 285	2340	1	0.80	27	670	36	76	0.24	102	< 10	116	20		
L6000N 5200E	201 285	1405	1	0.70	22	610	20	91	0.25	77	< 10	80	< 10		
L6000N 5250E	201 285	1600	2	1.18	25	330	22	63	0.24	93	< 10	110	40		
L6000N 5300E	201 285	1800	2	0.69	25	700	18	67	0.19	82	< 10	92	20		
L6000N 5350E	201 285	910	< 1	0.59	18	480	14	67	0.18	61	< 10	78	< 10		
L6000N 5400E	201 285	425	< 1	0.58	18	460	26	61	0.26	84	< 10	122	20		
L6000N 5450E	201 285	660	< 1	0.62	21	450	32	70	0.26	92	< 10	136	20		
L6000N 5500E	201 285	970	< 1	0.51	23	590	34	56	0.24	93	< 10	162	20		

CERTIFICATION:

*Haut Buehler*



# Chemex Labs Ltd.

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

To: PAMICON DEVELOPMENTS LIMITED  
 WESTMIN PROJECT  
 711 - 675 W. HASTINGS ST.  
 VANCOUVER, BC  
 V6B 1N4

A9419983

Comments: CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

**CERTIFICATE**

**A9419983**

PAMICON DEVELOPMENTS LIMITED

Project: FAIRCHILD-FAIR  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 18-JUL-94.

### SAMPLE PREPARATION

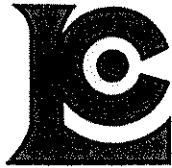
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	68	Dry, sieve to -80 mesh
203	3	Dry, sieve to -35 mesh
205	3	Geochem ring to approx 150 mesh
285	71	ICP - HF digestion charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

### ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	71	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	71	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	71	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	71	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	71	Be ppm: 24 element, rock & core	ICP-AES	0.5	10000
561	71	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	71	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	71	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	71	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	71	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	71	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	71	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	71	K %: 24 element, rock & core	ICP-AES	0.01	20.0
570	71	Mg %: 24 element, rock & core	ICP-AES	0.01	20.0
568	71	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	71	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	71	Na %: 24 element, rock & core	ICP-AES	0.01	5.00
564	71	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	71	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	71	Pb ppm: 24 element, rock & core	AAS	2	10000
582	71	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	71	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	71	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	71	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	71	Zn ppm: 24 element, rock & core	ICP-AES	2	10000
1006	71	La ppm: 20 element, rock ID	ICP-AES	10	10000



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## CERTIFICATE OF ANALYSIS A9419983

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
L5000N 4800E	201 285	< 5	< 0.2	6.03	620	0.5	< 2	1.65	0.5	20	59	115	3.65	1.98	0.95
L5000N 4850E	201 285	< 5	0.4	5.59	630	0.5	< 2	1.29	< 0.5	14	52	50	3.46	1.89	0.82
L5000N 4900E	201 285	< 5	< 0.2	6.61	560	1.0	< 2	0.84	< 0.5	132	54	823	4.01	1.45	0.69
L5000N 4950E	201 285	< 5	< 0.2	6.01	660	0.5	< 2	0.70	0.5	12	59	21	3.60	1.78	0.80
L5000N 5000E	201 285	< 5	< 0.2	5.78	630	0.5	< 2	2.10	< 0.5	15	55	34	3.72	2.05	1.58
L5000N 5050E	201 285	< 5	< 0.2	6.21	610	1.0	< 2	1.62	< 0.5	13	57	23	3.38	1.98	1.18
L5000N 5100E	201 285	< 5	< 0.2	6.07	580	0.5	< 2	1.20	< 0.5	15	62	25	3.45	2.12	1.16
L5000N 5150E	201 285	< 5	< 0.2	5.74	620	0.5	< 2	2.00	< 0.5	15	52	50	3.09	2.14	1.38
L5000N 5200E	201 285	< 5	< 0.2	5.33	560	0.5	< 2	7.08	< 0.5	13	48	38	2.49	2.20	3.70
L5000N 5250E	201 285	< 5	< 0.2	5.97	710	0.5	< 2	0.79	< 0.5	13	56	21	3.62	1.62	0.78
L5000N 5300E	201 285	< 5	< 0.2	5.40	570	0.5	< 2	2.64	< 0.5	17	53	25	3.03	2.07	1.66
L5000N 5350E	201 285	< 5	< 0.2	5.24	530	0.5	< 2	3.89	< 0.5	12	52	25	3.21	2.10	2.46
L5000N 5400E	201 285	< 5	< 0.2	5.55	560	0.5	< 2	1.17	0.5	11	52	25	3.13	2.07	0.84
L5000N 5450E	201 285	< 5	< 0.2	5.23	440	0.5	< 2	2.22	0.5	10	52	24	2.98	2.09	1.63
L5000N 5500E	201 285	< 5	< 0.2	5.16	440	0.5	< 2	5.44	< 0.5	10	59	22	2.88	2.51	3.69
L5250N 4800E	201 285	< 5	< 0.2	5.23	570	0.5	< 2	2.64	< 0.5	14	47	99	2.96	1.90	1.03
L5250N 4850E	201 285	< 5	< 0.2	5.93	680	1.0	< 2	0.83	1.0	14	56	24	4.46	1.93	0.82
L5250N 4900E	201 285	< 5	< 0.2	5.66	600	0.5	< 2	1.08	0.5	15	50	24	3.51	2.05	0.82
L5250N 4950E	201 285	< 5	< 0.2	5.63	560	0.5	< 2	5.36	< 0.5	15	45	34	2.66	2.26	3.04
L5250N 5000E	201 285	< 5	< 0.2	5.67	600	0.5	< 2	1.03	0.5	18	50	57	3.31	2.08	0.79
L5250N 5050E	201 285	< 5	< 0.2	5.77	590	1.0	< 2	1.40	< 0.5	15	58	23	3.33	1.94	1.19
L5250N 5100E	201 285	< 5	< 0.2	5.04	520	1.0	< 2	2.85	< 0.5	14	47	41	2.96	1.76	1.80
L5250N 5150E	201 285	< 5	< 0.2	5.46	540	1.0	< 2	2.52	< 0.5	16	45	28	2.89	1.91	1.66
L5250N 5200E	201 285	< 5	< 0.2	4.86	490	1.0	< 2	2.20	< 0.5	22	47	55	2.82	1.54	0.98
L5250N 5250E	201 285	< 5	< 0.2	5.37	530	1.0	< 2	1.15	< 0.5	13	47	35	3.21	1.94	0.87
L5250N 5300E	201 285	< 5	< 0.2	5.48	540	1.0	< 2	4.01	< 0.5	12	49	49	2.90	2.28	2.54
L5250N 5350E	201 285	< 5	< 0.2	4.05	410	1.0	< 2	7.20	< 0.5	12	37	25	2.20	1.86	3.52
L5250N 5400E	201 285	< 5	< 0.2	6.16	670	1.0	< 2	0.71	0.5	13	68	18	3.81	1.95	0.83
L5250N 5450E	201 285	< 5	< 0.2	5.68	590	1.0	< 2	1.08	< 0.5	11	102	54	3.56	2.03	1.02
L5250N 5500E	201 285	< 5	< 0.2	5.77	550	1.0	< 2	3.19	< 0.5	9	58	45	2.45	2.14	2.38
L5500N 4800E	201 285	< 5	< 0.2	5.52	590	1.0	< 2	1.90	< 0.5	17	52	32	3.47	1.83	1.22
L5500N 4850E	201 285	< 5	< 0.2	5.15	520	1.0	< 2	4.90	< 0.5	17	51	54	2.88	1.91	3.15
L5500N 4900E	201 285	< 5	< 0.2	5.76	570	1.0	< 2	0.73	0.5	16	61	26	3.62	1.90	0.80
L5500N 4950E	201 285	< 5	< 0.2	5.12	710	1.0	< 2	5.24	< 0.5	12	58	32	2.68	1.89	2.15
L5500N 5000E	201 285	< 5	< 0.2	4.88	520	1.0	< 2	4.62	< 0.5	8	46	34	2.14	1.87	2.91
L5500N 5050E	201 285	< 5	< 0.2	5.23	510	1.0	< 2	3.38	< 0.5	13	50	22	3.09	1.81	2.03
L5500N 5100E	201 285	< 5	0.4	5.08	540	1.0	< 2	2.08	< 0.5	14	50	26	3.11	1.61	1.08
L5500N 5200E	201 285	< 5	< 0.2	4.69	440	1.0	< 2	6.53	< 0.5	9	42	76	2.58	2.13	4.27
L5500N 5250E	201 285	< 5	< 0.2	5.14	490	1.0	< 2	1.35	< 0.5	11	107	53	2.58	1.88	0.98
L5500N 5300E	201 285	< 5	< 0.2	4.76	480	1.0	< 2	4.53	< 0.5	9	44	27	2.83	1.95	2.66

CERTIFICATION: *Hart Buchler*



# Chemex Labs Ltd.

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

To: PAMICON DEVELOPMENTS LIMITED  
 WESTMIN PROJECT  
 711 - 675 W. HASTINGS ST.  
 VANCOUVER, BC  
 V6B 1N4

Page Number : 1-B  
 Total Pages : 2  
 Certificate Date: 18-JUL-94  
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 P.O. Number :  
 Account : BM W

Project : FAIRCHILD-FAIR  
 Comments: CC: PAMICON CC: D. CAULFIELD CC: M. JONES CC: R. VANCE

## CERTIFICATE OF ANALYSIS A9419983

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	La ppm ICP		
L5000N 4800E	201 285	835	< 1	0.60	26	520	36	79	0.27	118	< 10	152	20		
L5000N 4850E	201 285	850	1	0.56	27	530	34	71	0.25	108	< 10	146	20		
L5000N 4900E	201 285	1525	1	1.62	46	390	32	69	0.27	101	< 10	130	20		
L5000N 4950E	201 285	610	< 1	0.60	23	400	34	72	0.26	114	< 10	140	30		
L5000N 5000E	201 285	1465	1	0.73	26	670	22	82	0.27	101	< 10	148	20		
L5000N 5050E	201 285	605	1	0.71	25	350	26	71	0.23	100	< 10	102	20		
L5000N 5100E	201 285	670	< 1	0.73	25	340	22	75	0.27	97	< 10	100	30		
L5000N 5150E	201 285	720	< 1	0.68	24	690	24	68	0.21	92	< 10	134	20		
L5000N 5200E	201 285	840	< 1	0.89	21	560	16	93	0.19	70	< 10	80	< 10		
L5000N 5250E	201 285	860	< 1	0.62	24	300	34	74	0.24	115	< 10	138	20		
L5000N 5300E	201 285	900	< 1	0.63	20	510	24	63	0.21	87	< 10	122	10		
L5000N 5350E	201 285	1660	< 1	0.63	19	570	22	59	0.22	81	< 10	116	< 10		
L5000N 5400E	201 285	830	< 1	0.68	20	690	26	67	0.25	87	< 10	122	20		
L5000N 5450E	201 285	600	< 1	0.57	20	510	20	53	0.25	82	< 10	106	20		
L5000N 5500E	201 285	470	1	0.55	23	650	16	50	0.23	75	< 10	128	< 10		
L5250N 4800E	201 285	705	1	0.56	22	690	28	72	0.21	91	< 10	132	10		
L5250N 4850E	201 285	1690	< 1	0.55	25	510	36	63	0.23	123	< 10	158	30		
L5250N 4900E	201 285	1225	1	0.61	20	610	30	67	0.24	99	< 10	192	30		
L5250N 4950E	201 285	670	1	0.88	19	530	16	80	0.19	74	< 10	112	< 10		
L5250N 5000E	201 285	1165	< 1	0.77	22	640	24	77	0.25	87	< 10	132	30		
L5250N 5050E	201 285	655	1	0.74	23	370	24	75	0.28	91	< 10	124	30		
L5250N 5100E	201 285	1175	< 1	0.64	19	620	18	69	0.25	80	< 10	124	10		
L5250N 5150E	201 285	800	< 1	0.75	22	570	20	62	0.20	73	< 10	90	10		
L5250N 5200E	201 285	1935	< 1	0.72	20	670	20	67	0.21	77	< 10	172	20		
L5250N 5250E	201 285	985	< 1	0.57	20	520	26	56	0.23	82	< 10	160	20		
L5250N 5300E	201 285	935	< 1	0.58	20	610	22	50	0.21	76	< 10	124	< 10		
L5250N 5350E	201 285	720	1	0.50	17	430	14	55	0.14	52	< 10	90	10		
L5250N 5400E	201 285	905	1	0.71	24	450	30	81	0.31	106	< 10	162	30		
L5250N 5450E	201 285	760	1	0.62	41	530	26	67	0.27	93	< 10	138	30		
L5250N 5500E	201 285	295	< 1	0.67	20	550	26	71	0.30	92	< 10	128	< 10		
L5500N 4800E	201 285	1195	< 1	0.62	24	600	32	68	0.26	96	< 10	168	20		
L5500N 4850E	201 285	730	< 1	0.73	20	620	20	79	0.24	76	< 10	116	< 10		
L5500N 4900E	201 285	920	< 1	0.66	24	510	28	69	0.28	100	< 10	136	30		
L5500N 4950E	201 285	755	< 1	0.66	23	520	16	73	0.20	68	< 10	72	< 10		
L5500N 5000E	201 285	445	< 1	0.65	21	540	14	65	0.22	69	< 10	84	< 10		
L5500N 5050E	201 285	730	< 1	0.63	19	430	22	69	0.22	80	< 10	84	< 10		
L5500N 5100E	201 285	835	< 1	0.59	23	630	28	76	0.25	92	< 10	122	10		
L5500N 5200E	201 285	785	< 1	0.53	20	510	16	51	0.18	64	< 10	98	< 10		
L5500N 5250E	201 285	340	3	0.64	35	540	20	66	0.23	78	< 10	124	20		
L5500N 5300E	201 285	900	< 1	0.56	21	480	24	67	0.22	72	< 10	76	< 10		

CERTIFICATION: Hart Buchler

APPENDIX F


GEOLOGIST'S CERTIFICATE

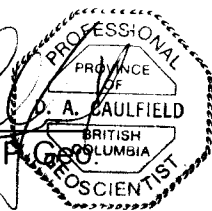
## GEOLOGIST'S CERTIFICATE

I, DAVID A. CAULFIELD, of 3142 Gambier Street, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 207, 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 I am a Professional Geoscientist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
4. THAT this report is based in part on property work I personally completed and/or directly supervised on June 26, 1994, government publications and assessment reports filed with the Department of Indian and Northern Affairs, Yukon.

DATED at Vancouver, British Columbia, this 30<sup>th</sup> day of January, 1995.

  
David A. Caulfield, P. Geo.



The seal is a circular emblem with a dashed border. The text inside the seal reads: "PROFESSIONAL" at the top, "PROVINCE OF" in the middle, "D. A. CAULFIELD" in the center, "BRITISH COLUMBIA" at the bottom, and "GEOSCIENTIST" at the very bottom.