

MAP NO.: ASSESSMENT REPORT
106D 16 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 093122
MINING DISTRICT: MAYO
TYPE OF WORK: GEOCHEMICAL

REPORT FILED UNDER: EQUITY ENGINEERING LTD

DATE PERFORMED: AUG 21,28-30, SEPT 3,5,7, 1992 DATE FILED: JUNE 11, 1993

LOCATION: LAT.: 64°53'N AREA: BRECCIA CREEK

LONG.: 134°12'W VALUE \$: 23,400

CLAIM NAME & NO.: MICA 1-24 (YB28540-563), MICA 25-42 (YB28851-868)
HAIL 1-10 (YB28564-573)

WORK DONE BY: DAVID A. CAULFIELD

WORK DONE FOR: WESTMIN RESOURCES LTD.

DATE TO GOOD STANDING:

REMARKS: BRECCIAS BEING EVALUATED FOR OLYMPIC DAM TYPE CU
U, AU, AG MINERALIZATION. 85 GRAB AND 92 LITHOGEOCHEMICAL ROCK
SAMPLES WERE COLLECTED FROM THE PROPERTY.



Indian and Northern
Affairs Canada

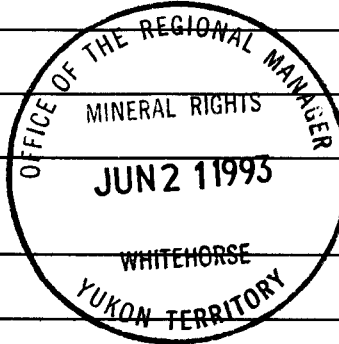
Affaires indiennes
et du Nord Canada

TRANSMITTAL FORM

M.R. file no.
R.M.M.R. file no.
Date forwarded JUN 15 1993

From ► Mining Recorder at: **MAYO, YUKON**

To ► Regional Manager, Mineral Rights at Whitehorse, Y.T.



For action are:

☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
☐ SECURITY DEPOSIT		
☐ FINANCIAL ABILITY		
☐ ASSIGNMENT OF PLACER LEASE NO.	From	To
☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
☐ DIAMOND DRILL LOGS	Claims	Claim sheet no.
☒ QUARTZ ASSESSMENT REPORT	Claims <i>Mica 1-42 Hail 1-10</i>	Claim sheet no. <i>106-D-16</i>
	Type of report <i>Geochemical</i>	Submitted by <i>Equity Engineering Ltd. / David A. Caulfield</i>
	Cls. work performed on	\$ req. for ren. application <i>23400.00</i>

Graham
Signature

REPLY ACTION

Date returned

093122

Signature



**1992 GEOCHEMICAL
REPORT
ON THE
MICA 1-42 AND HAIL 1-10 CLAIMS**



Located in the Wernecke Mountains
Mayo Mining District
NTS 106D/16E
64° 53' North Latitude
134° 12' West Longitude

-prepared for-
WESTMIN RESOURCES LIMITED

-prepared by-
David A. Caulfield, P.Geo.

DATES OF WORK PERFORMED: August 21, 28-30,
September 3, 5, 7, 1992
DATE OF REPORT: December, 1992

093122

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 23,400.

for 
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

1992 GEOCHEMICAL REPORT ON THE MICA 1-42 AND HAIL 1-10 CLAIMS

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1.0 INTRODUCTION

The Mica 1-42 and Hail 1-10 claims ("Mica property") are located in the Wernecke Mountains, approximately 165 kilometres northeast of Mayo in east central Yukon (Figure 1). 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 mineralized breccias and cut by mafic sill and dykes. Exploration in the Wernecke Mountains was directed sporadically at copper from the early 1900's until the discovery of uranium mineralization associated with hematite breccias in 1974. Occurrences of copper and breccia-related copper-gold-cobalt mineralization have been noted in the basin, but were largely bypassed in the search for uranium and lead-zinc deposits between 1974 and 1980. The geological setting of the Wernecke Mountains is excellent for hosting Olympic Dam copper-uranium-gold-silver breccia type deposits and the Mica property was acquired on this basis.

Geological mapping, prospecting and lithogeochemical sampling were carried out over the Mica property during August and September, 1992. This work program was conducted jointly by Pamicon Developments Ltd. and Equity Engineering Ltd. for Westmin Resources Limited. The same companies have been retained to report on the fieldwork.

2.0 LIST OF CLAIMS

The Mica property comprises 52 contiguous quartz mineral claims, located in the Mayo Mining District (Figure 2). Government records indicate that the following claims are owned by M. Stammers of North Vancouver, British Columbia. Separate documents indicate that they are held under option by Westmin Resources Limited.

TABLE 2.0.1
CLAIM DATA

Claim Name	Record Numbers	Record Date	Expiry Date
Mica 1-24	YB28540-563	July 6, 1992	Dec. 31, 1997*
Mica 25-28	YB28851-854	Aug. 24, 1992	Dec. 31, 1997*
Mica 29	YB28855	Aug. 24, 1992	Dec. 31, 1997*
Mica 30	YB28856	Aug. 24, 1992	Dec. 31, 1997*
Mica 31-32	YB28857-858	Aug. 24, 1992	Dec. 31, 1997*
Mica 33-36	YB28859-862	Aug. 24, 1992	Dec. 31, 1997*
Mica 37-40	YB28863-866	Aug. 24, 1992	Dec. 31, 1997*
Mica 41-42	YB28867-868	Aug. 24, 1992	Dec. 31, 1997*
Hail 1-3	YB28564-566	July 6, 1992	Dec. 31, 1997*
Hail 4	YB28567	July 6, 1992	Dec. 31, 1997*
Hail 5	YB28568	July 6, 1992	Dec. 31, 1997*
* Subject to approval of assessment work covered by this report.			

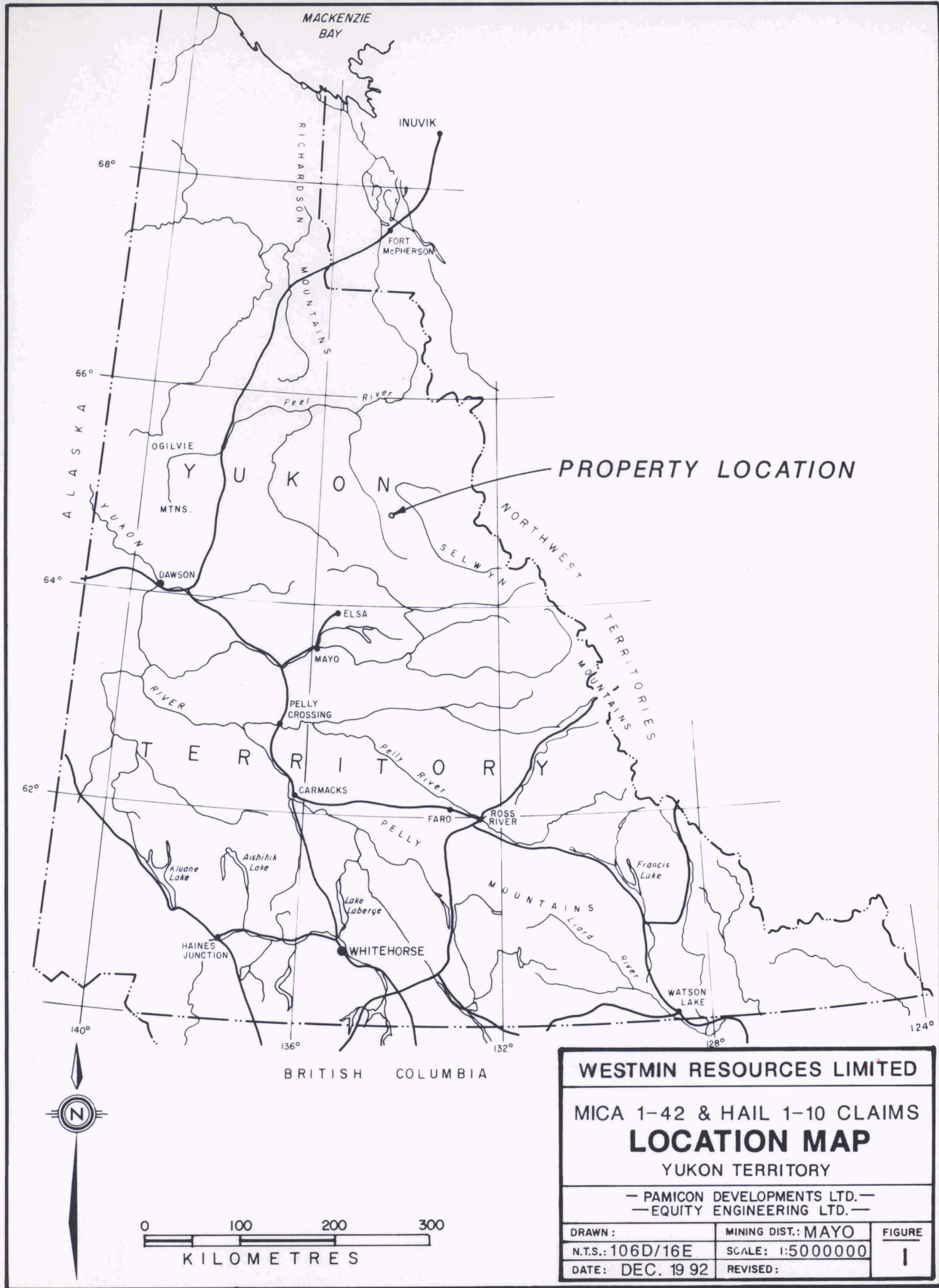


TABLE 2.0.1 (continued)
CLAIM DATA

Claim Name	Record Numbers	Record Date	Expiry Date
Hail 6	YB28569	July 6, 1992	Dec. 31, 1997*
Hail 7	YB28570	July 6, 1992	Dec. 31, 1997*
Hail 8	YB28571	July 6, 1992	Dec. 31, 1997*
Hail 9	YB28572	July 6, 1992	Dec. 31, 1997*
Hail 10	YB28573	July 6, 1992	Dec. 31, 1997*

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

3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Mica property is located in the Wernecke Mountains of east central Yukon, approximately 165 kilometres northeast of Mayo (Figure 1). The property is located at the headwaters of Breccia Creek which enters the south side of the Bonnet Plume River 13 kilometres west of Fairchild Lake. The claims are situated in the Mayo Mining District, centered at 64° 53' north latitude and 134° 12' west longitude.

The Wernecke Mountains may be accessed from Mayo by float plane to a number of well distributed lakes and by wheeled aircraft to the 800 metre long gravel airstrip at Bear River, 5.5 kilometres southwest of the boundary of the Mica property. Mayo has scheduled air service from Whitehorse. A branch of the Wind River winter tote road was built through the project area during the late 1950's to explore the Crest Iron deposit and was re-activated during the coal and uranium exploration boom in the late 1970's. During the 1992 field program, access was by helicopter from a camp on the Mica 41 claim.

The area lies on the northern flanks of the Wernecke Mountains and includes the Rackla, Bonnet Plume and Knorr Ranges. The Bonnet Plume and Wind Rivers transect the area in a northwesterly direction. The topography is mountainous and typical of alpine glaciated terranes, with deep valleys and serrated ridges. Elevations on the Mica property range from 970 metres in the creek valley to over 2,100 metres an unnamed peak in the south end of the property. The entire area is above tree line, which lies at approximately 1,000 metres. Thick stands of spruce are found only in the major river valleys. Above tree line, vegetation consists of alpine grasses and moss with local concentrations of dwarf birch and alder.

This part of the Yukon did not receive continental Pleistocene glaciation, but was subjected to significant alpine glaciation to form the wide U-shaped valleys of the Bonnet Plume and Wind Rivers. A few receding alpine glaciers are present on north facing slopes.

4.0 REGIONAL AND AREA MINING HISTORY

4.1 Previous Work

The first copper occurrences were noted by trappers working in the region at the turn of the century. In 1935, the McCluskey Lake copper occurrences were staked and the Bonnet Plume and Wind River area received sporadic exploration for copper over the next 20 years. Exploration activity was stimulated in the late 1950's when Crest Exploration Limited built a winter road from Elsa into their banded iron deposit in the Snake River area. Work on the Snake River Iron deposit outlined 18.6 billion tonnes averaging 47% iron in the Hadrynian Rapitan Group (Yeo, 1986).

In the early 1960's, 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).

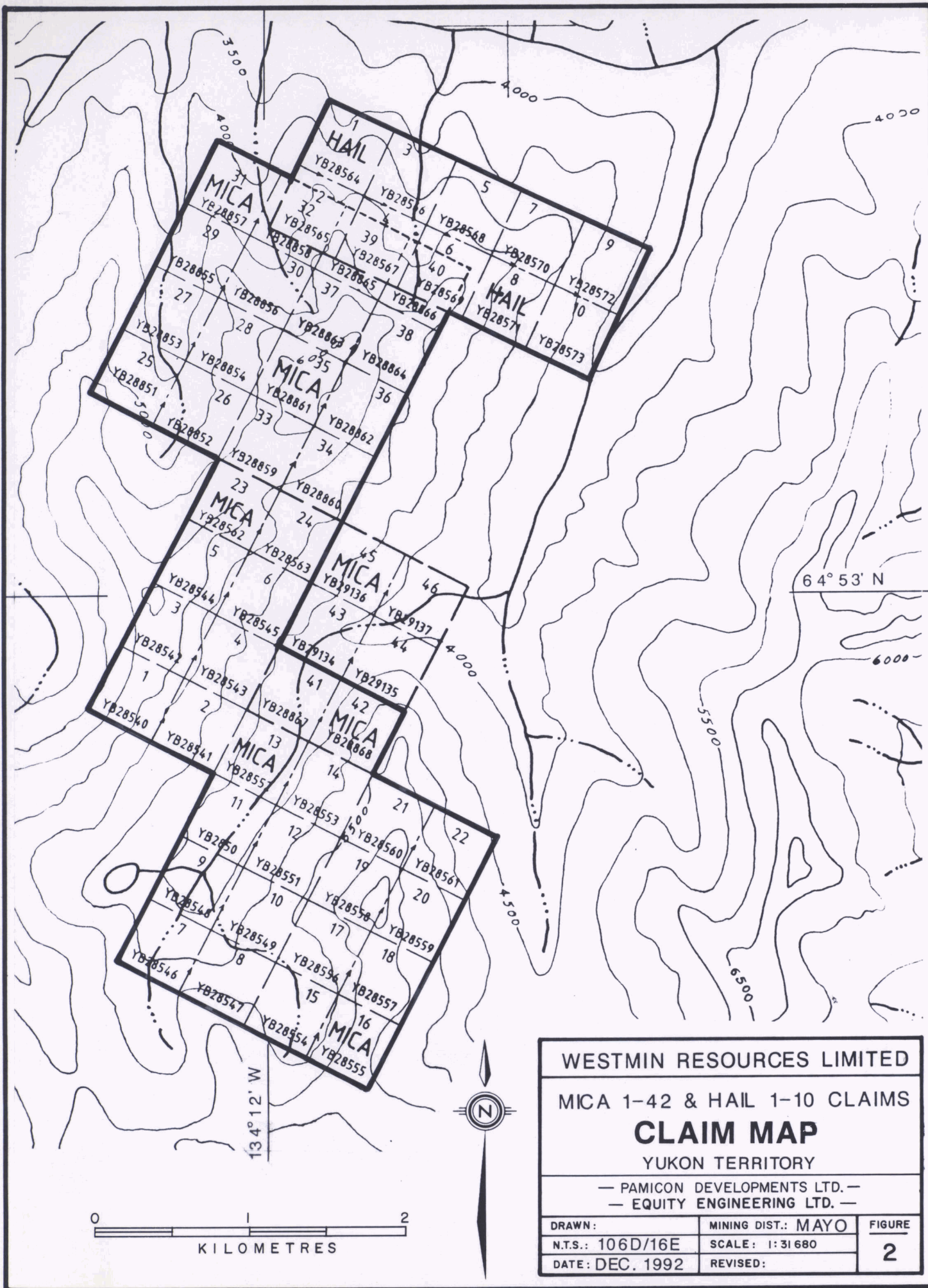
In 1971, the discovery of zinc-lead showings in the Mackenzie Mountains to the east brought exploration activity to the southeastern portion of the Wernecke Mountains. Continued lead-zinc exploration in the Proterozoic basin led to the discovery of uranium mineralization in 1974 by Archer, Cathro and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

The 1980's saw very limited exploration throughout the project area. Archer Cathro embarked on a limited exploration campaign to test the gold potential of some of the known uranium occurrences. The lack of recent exploration activity has allowed most of the staked areas to come open.

In 1980, Zelon Enterprises Ltd. staked the Adub 1-18 on areas now covered by the Mica property. Subsequent to the staking, Zelon excavated four hand trenches and conducted limited rock sampling (Minfile 106D/16-79).

4.2 1992 Exploration Program

During August and September of 1992, Westmin Resources Limited carried out a preliminary exploration program on the Mica property, consisting of lithogeochemical sampling, limited geological mapping and prospecting. The program was designed to determine the potential for an Olympic Dam copper-uranium-gold-silver breccia type deposit. A total of 1 chip sample, 85 grab samples and 92



WESTMIN RESOURCES LIMITED

MICA 1-42 & HAIL 1-10 CLAIMS

CLAIM MAP

YUKON TERRITORY

— PAMICON DEVELOPMENTS LTD. —

— EQUITY ENGINEERING LTD. —

DRAWN:

MINING DIST.: MAYO

FIGURE

N.T.S.: 106D/16E

SCALE: 1:31 680

DATE: DEC. 1992

REVISED:

2

lithogeochemical rock samples were taken (Figure 4).

Lithogeochemical samples were taken approximately 100 metres apart, generally along contours where outcrop exposures and talus slopes were accessible for sampling. The purpose of these samples was threefold: (1) to determine the tenure of copper mineralization as a bulk tonnage target, (2) to locate areas where chalcocite may be present, and (3) to define geochemical trends within the hematite breccias and into the surrounding sedimentary rocks. Grab samples were taken from areas of visible copper mineralization. All rock samples are described in Appendix D, and analytical certificates are attached in Appendix E. Rock samples were analyzed geochemically for gold, lanthanum and uranium and by ICP for 24 other elements. Samples exceeding 10,000 ppm copper were assayed. In the field, sample locations were marked by a metal tag and a combination of pink and blue flagging.

Geological mapping was carried out on a scale of 1:10,000 and was limited to the lithogeochemical sample lines (Figure 4).

5.0 REGIONAL GEOLOGY

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 mineralized breccias and cut by mafic sill 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 unconformably 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 first recorded geological mapping in the area was by C. Camshell of the Geological Survey of Canada in 1905, who completed a topographic and geological survey between the Stewart River and Fort McPherson. In 1961, "Operation Ogilvie" was launched and the Nash Creek (106D), Larsen Creek (116A) and Dawson (116B&C) map areas were mapped under the direction of J.A. Roddick and L.H. Green (1972). Mapping of the Nadaleen River map sheet (106C) was started in 1971 by S. Blusson and released in 1974 (Open File 205). The geology of the Wind River (106E) and Snake River (106F) map areas was mapped by D.K. Norris (Open File 279) in 1975. Since 1976, the Geological Survey of Canada, led by R.T. Bell, G.D. Delaney and W.D. Goodfellow have been mapping the Proterozoic basin and studying the uraniferous breccia complexes. Delaney (1985) provides the most updated discussion of the Proterozoic stratigraphy whereas Bell (1977, 1978, 1982, 1986, 1987) focused on the mineralogy, morphology and genesis of the breccia complexes. In addition to this published work, many stratigraphic sections were measured by Pamicon Developments Ltd. during their work

programs. The following lithological discussion combines the detailed Pamicon work and that of Delaney. Where applicable, the **Fairchild, Quartet and Gillespie** subgroups of Delaney (1985) have been bracketed after the Pamicon description.

The Fairchild Lake Group outcrops along the western edge of the Bonnet Plume River at Bond Creek and near the headwaters of the Little Wind River. The thickness is greater than 4,000 metres and the base of this sequence has not been observed. The lowest members of the Fairchild Lake Group consist of light to dark green, fractured, chloritic siltstone grading upwards into light grey, massively bedded, siliceous siltstone (F-1). The remainder of the section consists of alternating repetition of the grey siltstone described above and an interbedded unit of narrow limestone (20%) and siltstone (80%) beds (F-2). The interbedded unit is recognized by its "ribbed" weathering. Overlying these units is a sequence of massively bedded, green calcareous siltstone, brown weathering dolomite and a coarser, light green sandstone or quartzite with local magnetite (F-3, F-4). The top of this section is marked by a 12.0 metre massively bedded, calcareous white quartzite overlain by thin bedded, green calcareous siltstone and minor limestone. The transitional (F-Tr) upper part of the Fairchild Lake Group is measured from the appearance of a well developed phyllite. Overlying the phyllite is a bed of black, soft silty shale, followed by 170 metres of thick, massively interbedded section of brown weathering dolomite with black shale and topped by 120 metres of pyritic, rusty weathering, black shale. Near the top of the dolomite sequence is a distinctive 12 metre thick marker horizon of white, recrystallized limestone. This sequence is typical of a thick miogeoclinal succession.

The Quartet Group consists of greater than 5,000 metres of monotonous dark-grey weathering, fine-grained siliciclastic sediments. Immediately above the red brown weathering shale of the Fairchild Lake Group is a 330 metre thick section of dark grey to black weathering, laminated shales and silty shales (Q-1). The balance of the section is comprised of dark grey weathering siltstone and sandstone with interbeds of shale and quartzite (Q-2). Primary structures include cross and graded bedding, ripple marks and load casts. Massively bedded quartzites increase in frequency towards the top of the group. The base of Q-2 is marked by a 180 metre thick, rusty weathering, pyritic quartzite unit. The base of the Quartet Group is interpreted by Delaney (1985) to have accumulated in a sediment starved basin with the thicker bedded siliciclastic sediments of Q-2 being typical of shallow marine sediments.

The Gillespie Lake dolomitic rocks exhibit a gradational contact with the underlying Quartet Group. The thickness of the transition zone varies from 25 metres to as much as 700 metres (Delaney, 1981) and consists of massively interbedded, brown to orange weathering dolomite and dark grey to black, calcareous



Geology by: Pamicon Developments Ltd.,
Delaney (1985)

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WESTMIN RESOURCES LIMITED

MICA 1-42 & HAIL 1-10 CLAIMS

REGIONAL GEOLOGY

YUKON TERRITORY

— PAMICON DEVELOPMENTS LTD. —
— EQUITY ENGINEERING LTD. —

DRAWN:	MINING DIST.: MAYO	FIGURE
N.T.S.: 106D/16E	SCALE: 1:100 000	3
DATE: DEC. 1992	REVISED:	

LEGEND

(to accompany Figure 3)

LITHOLOGIES

QUATERNARY

Q Unconsolidated glacial and alluvial deposits.

PALEOZOIC

P Carbonate and siliciclastic sediments, undivided.

PROTEROZOIC

Pp *Pinguicula Group*: Carbonate and siliciclastic sedimentary rocks and lesser volcanics.

Kd Diabase

Kdi Diorite

Gb Gabbro

Bx *Hematite breccia*

WERNECKE SUPERGROUP

Pg *Gillespie Lake Group*: Buff-, orange-, grey-, and locally maroon-weathering dolomite, dolomite terrigenous admixtures, limestone, claystone, mudstone, siltstone and fine sandstone.

Pgtr Transitional Zone: Interbedded dolomite and dark siltstone/shale with characteristic striped appearance.

Pq *Quartet Group*: Dark grey- and grey-weathering siltstone, mudstone, claystone and fine sandstone (wavy bedded); locally quartzites.

Pq₁ Black shale with sandstone and shale interbeds, quartzite.

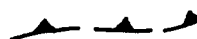
Pq₂ Pyritic quartzite.

Pf *Fairchild Lake Group*: Light grey-, greenish grey-, and locally dark grey-weathering shale, siltstone (80%), fine sandstone and limestone (20%); locally phyllites, schists and slates.

Pftr Transitional Zone: Shale and brown-weathering dolomite with limestone marker unit, pyritic black shale.

SYMBOLS

 Geological contact (approximate)

 Thrust fault (approximate)

 Fault (approximate)

 Bedding attitude

 Bedding (overturned)

 Anticlinal axis (arrow indicates plunge)

 Synclinal axis (arrow indicates plunge)

 Limit of unconsolidated glacial and alluvial deposits

siltstone or shale giving a striped appearance to this unit (G-TR). Delaney (1981) has subdivided the remainder of the group into G-2 through G-7, although none of these subgroups can be followed along strike due to dramatic facies changes. Above the transition zone, the Gillespie Lake Group is dominated by bright orange-weathering, grey dolomite with minor black shale, maroon shale and lesser quartzite. Stromatolites, oolites and molar tooth structures occur near the top of the section. The Gillespie Lake Group is a 4,000 metre thick section of terrigenous siliciclastic sediments and shallow marine platformal dolomites.

The overlying Pinguicula Group of Hadrynian age consists of a basal andesitic flow overlain by coarse unsorted conglomerate, alternating red and green siltstones/sandstones, and, finally by stromatolitic dolomite. Its lower contact and upper contact, which is marked by glacial deposits of the Rapitan Group (Ekwi Supergroup), are both erosional unconformities.

Strata of the Wernecke Supergroup are cut by numerous hematitic breccia complexes that are enriched in iron, uranium, barium, fluorine, copper, cobalt, rare earths and gold. At least 86 breccias have been identified, which represents about 2% of the surface exposure in the region (Archer and Schmidt, 1978). No breccias cut the younger Pinguicula Group rocks.

The Wernecke Supergroup is cut by diorite dykes/sills, one body of peridotite (Delaney, 1981) and by more felsic intrusive bodies along the east side of the Bonnet Plume River. Several lamprophyre dykes approximately 1.0 metre wide, with books of fresh biotite up to 4.0 centimetres in diameter are found northwest of Fairchild Lake (Archer and Schmidt, 1978). K-Ar dating of biotite points to a Late Proterozoic or Early Cambrian age for these dykes (Delaney, 1981). Diabase dykes, tentatively assigned a Cretaceous age, occur in the southern half of the 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.

The Bonnet Plume valley is considered to be an expression of a major fault splay from the Knorr Fault and the Wind River from the Deslauriers Fault. A secondary northerly set of faults likely controls the topographic linears such as the Slats Creek pass and

Fairchild Lake valley.

6.0 PROPERTY GEOLOGY AND MINERALIZATION

6.1 Property Geology

The Mica property is underlain by folded and faulted Helikian Wernecke Supergroup sedimentary rocks that have been intruded by hematite breccias and minor mafic intrusives (Figure 4). The hematite breccias appeared to be spatially related to two major faults: a northeasterly trending fault parallel to the main creek valley and a west-northwesterly fault through the Hail claims. Wernecke Supergroup sediments include the Fairchild Lake, Quartet and Gillespie Lake Groups.

The oldest rocks, members of the Fairchild Lake Group (Unit Pf), are exposed north of the hematite breccia on the Hail claims. These rock units are thin-bedded, grey to green phyllites, siltstones and mudstones. Adjacent to the hematite breccias, the rock units are strongly foliated and altered by quartz and chlorite.

The Quartet Group fine-grained siliciclastics (Unit Pq), consisting of shale, slate and phyllite, occur throughout the southern half of the property. The rock exposures weather a dull dark grey to black and include green siltstone and brown weathering sandstone. Outcrops of slate on the south end of the property are carbonaceous and some shale units contain 1% disseminated pyrite. The phyllite-breccia contact in the main creek valley is marked by warping and by chlorite-silica alteration.

The Gillespie Lake Group carbonates (Unit Pg) trend through the unmapped area between the Hail and Mica hematite breccia complexes. The dolomite is bedded (5-50 cm.), orange weathering and may be cut by calcite veinlets. Silty partings and fissile shaly members are sometimes interbedded with the dolomite.

The Wernecke Supergroup strata are cut by a number of irregular shaped hematite breccia bodies that are spatially related to the major faults crosscutting the property. The Hail Breccia, measuring 2000 by 700 metres, is elongated along a west-northwest fault while the larger Mica Breccia, approximately 3000 by 2000 metres, is centered on a northeast fault. For mapping purposes, the breccias have been subdivided by clast lithology: homolithic, or one clast type (Unit Bx₂) and heterolithic, containing more than one fragment type (Unit Bx₁). A greater percentage of the hematite breccias are of the latter type with the homolithic breccias restricted to the margin of the breccia bodies. The degree of fragmentation, alteration and rounding of clasts in the homolithic breccia increases into the core of the breccia body. The outer contact of the homolithic breccia is gradational into unaltered

sediments in which bedding is warped and tightly folded suggesting forceful injection of the breccia. The brecciation at its weakest point is reduced to a crackled phase exhibiting no rotation of fragments with specular hematite (<5%) and carbonate healing fractures. This phase commonly weathers a brown colour due to strong carbonate alteration. The inner contact between heterolithic and homolithic phases is normally very sharp. Homolithic breccia types seem to be restricted to the Quartet and Gillespie Lake Groups.

The heterolithic phase is characterized by its variable clast type and the varying degree of alteration in the clasts. The colour varies from a deep purplish red colour to pink. The breccias are matrix-supported with subrounded fragments ranging from 1.0 centimetre to 1.0 metre but normally averaging less than 5 centimetres. The matrix consists of extremely milled fragments (<2-3 mm.) and specular hematite (5-30%). Other significant alteration minerals found in the matrix include silica, carbonate, chlorite and albite; clasts are altered to silica, red hematite and perhaps, potassium feldspar. The clasts include all rock types of the Wernecke Supergroup as well as rare feldspar porphyry intrusive and specular hematite clasts. A characteristic fragment type of both breccia bodies is a very hard, brick red "jasper". In the Mica Breccia, chlorite alteration and copper mineralization occur at the margin of the breccia with a silica-rich phase in the core.

A fine- to medium-grained, mafic-rich intrusive unit was noted northeast of sample 547077. Unfortunately, time constraints did not allow a proper examination; however, malachite staining was noted to be prevalent on jointing surfaces.

The most prominent structural features are the two major fault systems noted above. Both are extensive regional structures that can be traced in excess of 10 kilometres with tremendous apparent vertical displacement. Bedding orientations are different in each of the faulted domains and on an outcrop scale, bedding is disrupted adjacent to the hematite breccias. Large scale open folding has affected the Wernecke Supergroup as witnessed by the large syncline in dolomite units east of the Mica Breccia.

6.2 Mineralization

The bulk of the mineral showings are related to the specular hematite-bearing breccias, although a strong structural component is apparent in at least one of the showings (Figure 4). Copper mineralization with attendant cobalt and gold values occurs in heterolithic breccia and in veins, pods and siderite-rich breccias in the homolithic phase. Sulphide mineralogy, in order of abundance, consists of chalcopyrite, pyrite and bornite. In the heterolithic breccia, the sulphide minerals occur as disseminations, fracture fillings or in veins. In the field, copper zones may be identified by abundant malachite staining or

by a sooty-textured red lichen coating rock surfaces. The mineralization is accompanied by silica, carbonate, chlorite, barite, sericite and potassium feldspar alteration.

Overall, the highest copper values were returned from grab samples taken from visible copper mineralization. Only two of the lithogeochemical samples (n=92) contained >1000 ppm copper while 45 grab samples (n=85) had values above this level, including 20 samples with >1% copper. Chalcopyrite and/or bornite was identified in all of these anomalous samples including the two copper-rich lithogeochemical samples; primary chalcocite does not appear to be a contributing factor to the higher copper analyses. The highest individual metal values for the entire property are 1540 ppb gold, 8.0 ppm silver, 2937 ppm cobalt, 4.05% copper, 354 ppm molybdenum, 726 ppm nickel, 650 ppm tungsten, 2220 ppm lanthanum and 310 ppm uranium. There is a correlation between copper and gold grades; lead, zinc, silver and uranium values are uniformly low.

There are two areas on the Mica claims containing clusters of anomalous sample results: (1) Co-Cu-Au zone on the southeast slope with float in the main valley and (2) Cu-Au mineralization in heterolithic hematite breccia in the most northerly mapped and sampled exposures on the Mica Breccia. The first area, termed the "Cobalt-Copper Zone", occurs where the main valley fault passes through a contact zone between homolithic hematite breccia and Quartet Group siliciclastics. The mineralization is hosted in intensely silicified breccia with associated chlorite and carbonate alteration. Mineralized samples contain semi-massive to massive pyrite with variable magnetite, specular hematite and minor chalcopyrite. No primary or secondary cobalt minerals were identified. Prospecting notes indicate that the zone swells to 10-15 metres wide although an average width was not given. The length of the zone is also unknown although the sampling shows the mineralization to carry for at least 600 metres. Grab sample 548153 was taken over 2.0 metres whereas the others taken over 1.0 metres. Table 6.2.1 lists sample results from this style of mineralization.

TABLE 6.2.1
COBALT-COPPER ZONE ROCK GEOCHEMISTRY

Sample	Type	Gold (ppb)	Cobalt (ppm)	Copper (ppm)	Nickel (ppm)	Lanthanum (ppm)
548140	Float	50	457	177	215	120
548146	Float	20	1257	932	219	280
548149	Float	545	2143	432	199	90
548150	Grab	50	2078	1831	313	170
548151	Grab	140	1593	117	370	140
548152	Grab	25	245	12	88	60
548153	Grab	95	2937	24	726	20
548265	Float	145	904	1691	210	160

The significant copper-gold mineralization exposed in the north end of the Mica Breccia was restricted to individual grab samples; lithogeochemical samples through this area contained low copper values. This disparity in the sampling suggests that copper mineralization is not homogeneously distributed through the breccia and that copper-gold zones are more restricted. However, impressive copper values are present over an area of approximately 700 by 300 metres. Primary sulphides include both chalcopyrite and bornite. Of the 22 grab samples taken, 10 samples assayed >1.0% copper with the highest gold assay also from this area. The Mica 43-46 claims were staked in October to cover that portion of this mineralization missed during earlier staking campaigns. One kilometre south in the creek valley, a frost boil, approximately 15 metres in diameter, has exposed chalcopyrite-magnetite-bearing quartz stockwork in siderite alteration. A 10 by 10 metre grab sample (547582) of subcrop assayed 2.88% copper and 910 ppb gold.

The western part of the Hail Breccia appears to contain its best copper mineralization. Again, several grab samples returned assay values >1% copper. A single 9.0 metre chip across heterolithic breccia returned 1278 ppm copper.

The lithogeochemical sampling showed that copper is strongly depleted within the strongly silicified and brick red "jasper" heterolithic breccia at the south end of the Mica Breccia. Many of these lithogeochemical samples contained no detectable copper, even with slightly elevated gold values. For example, grab sample 485081 contains <1 ppm copper with 405 ppb gold. Normally, higher gold values correspond with higher copper values.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Mica 1-42 and Hail 1-10 claims were staked over copper showings associated with two hematite breccia bodies. Six field days were spent examining the breccias' potential for hosting Olympic Dam type copper-gold-silver-uranium deposits. Where examined, the best copper mineralization is concentrated at the north end of the Mica Breccia and on the west side of the Hail Breccia. In addition, a cobalt-bearing pyritic zone was discovered on the steep slope southeast of the main creek valley.

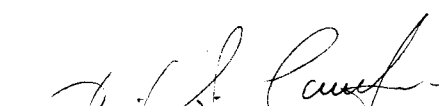
The breccias are situated along two major faults, one trending northeasterly up the main creek valley and the other crossing east-west across the Hail claims. The breccias intrude strata from all three groups of the Wernecke Supergroup. The degree of displacement associated with the faulting is considerable as Fairchild Lake Group sediments are found adjacent to dolomite units of the Gillespie Lake Group. The hematite breccias are comprised of homolithic and heterolithic phases with strongest alteration, brecciation and mineralization found in the heterolithic phase. Grab samples have returned copper assays up to 4.05% and gold

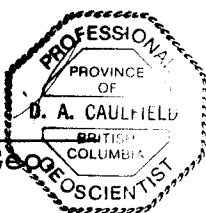
values to 1540 ppb.

Cobalt-copper-gold mineralization occurs with pyritic and silicified homolithic breccia along the east contact of the Mica Breccia. It is not known whether the mineralization is related to the emplacement of the hematite breccia or to later faulting, which is prominent through this area. Although, grab samples returned up to 2937 ppm cobalt, no cobalt minerals were identified and the cobalt may be tied up in the matrix of the pyrite.

The exploration results from the 1992 program warrant further work on the Mica property. The next stage of exploration should focus on detailed mapping and control sampling of areas returning concentrations of significant copper values. The cobalt-copper zone, northern exposures of the Mica Breccia and the west end of the Hail Breccia are such areas to be examined. Grid control should be established for mapping, soil/talus sampling and geophysical surveys. In addition, the unexplored gap between the breccia bodies should be prospected and reconnaissance mapped. Close attention should be placed on prospecting the main creek valley to locate additional zones similar to the well mineralized frost boil discovered south of camp.

Respectfully submitted,


David A. Caulfield, P. Geoscientist
EQUITY ENGINEERING LTD.



Vancouver, British Columbia
December, 1992



HAIL 1-10						
Sample	As(ppb)	Ag(ppm)	Co(ppm)	Cu(ppm)	La(ppm)	U(ppm)
547001	135	0.2	29	4749	430	<10
547002	20	<0.2	4	2.171	20	110
547003	30	<0.2	13	1.111	130	20
547004	<0.2	43	4150	<10	310	<10
547005	405	<0.2	43	4150	<10	310
547006	5	<0.2	20	112	10	<10
547007	5	<0.2	5	1278	50	<10
547008	20	<0.2	8	1.573	10	<10
547009	<5	<0.2	9	24	110	<10
547010	<5	<0.2	10	3	30	<10
547011	<5	<0.2	14	157	40	<10
547012	<5	<0.2	17	1.573	40	<10
547013	15	<0.2	9	2.598	10	<10
547014	35	<0.2	20	6631	180	<10
547015	215	2	86	2.988	<10	30
547016	65	<0.2	8	1500	2210	<10
547017	305	<0.2	107	1809	240	<10
547018	35	0.5	4	1991	240	<10
547019	35	<0.2	18	4862	20	<10
547020	10	<0.2	8	7953	20	<10
547021	65	<0.2	12	21	<10	10
547022	20	0.4	29	53	70	<10
547023	<5	<0.2	24	229	20	20
547024	15	0.8	20	1.031	20	20
547025	<5	0.2	7	102	30	<10
547026	<5	0.6	7	273	40	<10
547027	<5	<0.2	22	37	150	<10
547028	10	<0.2	13	232	40	<10
547029	<5	<0.2	6	48	20	10
547030	<5	<0.2	19	2	40	<10
547031	<5	0.4	11	2642	10	10
547032	<5	<0.2	28	28	20	<10
547033	<5	<0.2	29	196	10	<10
547034	<5	<0.2	9	1171	40	<10
547035	<5	0.2	15	1.488	10	<10
547036	<5	0.2	11	731	20	10
547037	<5	<0.2	13	50	10	20
547038	<5	<0.2	12	61	60	<10
547039	<5	0.4	33	10	10	<10
547040	<5	0.2	18	8	<10	10
547041	5	<0.2	57	6	<10	20
547042	<5	0.2	36	6	<10	10
547043	5	0.2	6	9	40	<10
547044	10	<0.2	24	957	20	<10
547045	<5	<0.2	14	22	10	<10
547046	<5	<0.2	14	7	20	<10
547047	<5	<0.2	10	1	10	<10
547048	5	<0.2	11	2	60	<10
547049	<5	<0.2	1	20	<10	<10
547050	10	<0.2	43	110	20	10
547051	<5	<0.2	16	3	<10	100
547052	<5	<0.2	10	7	<10	<10
547053	40	<0.2	13	4	20	<10
547054	<5	<0.2	16	10	40	<10
547055	30	<0.2	56	619	190	<10
547056	<5	<0.2	20	21	50	<10

MICA 1-42						
Sample	As(ppb)	Ag(ppm)	Co(ppm)	Cu(ppm)	La(ppm)	U(ppm)
547057	1991	<0.2	17	8	30	<10
547058	95	<0.2	9	<1	50	<10
547059	25	<0.2	12	<1	10	<10
547060	225	<0.2	1	726	<10	<10
547061	40	<0.2	10	<1	70	<10
547062	580	8	35	2.431	<10	<10
547063	10	<0.2	6	207	110	<10
547064	405	<0.2	7	<1	<10	<10
547065	80	0.4	259	8	240	<10
547066	35	<0.2	12	29	20	<10
547067	<5	<0.2	18	38	40	<10
547068	<5	0.4	9	148	90	<10
547069	<5	<0.2	8	19	60	<10
547070	<5	<0.2	16	5	10	<10
547071	<5	<0.2	9	289	40	<10
547072	<5	<0.2	25	216	10	<10
547073	<5	<0.2	13	4	870	<10
547074	<5	<0.2	13	47	70	<10
547075	<5	<0.2	10	35	30	<10
547076	<5	<0.2	11	28	<10	<10
547077	<5	<0.2	9	39	50	<10
547078	<5	<0.2	13	11	20	<10
547079	<5	<0.2	11	4	870	<10
547080	<5	<0.2	9	38	20	<10
547081	5	<0.2	13	250	40	<10
547082	10	<0.2	17	3018	100	<10
547083	270	<0.2	8	1.028	220	<10
547084	<5	<0.2	4	20	30	<10
547085	<5	<0.2	9	7	20	<10
547086	<5	<0.2	9	34	30	<10
547087	<5	<0.2	25	<1	40	<10
547088	<5	<0.2	18	<1	<10	<10
547089	<5	<0.2	18	<1	100	<10
547090	<5	<0.2	28	7	<10	<10
547091	<5	<0.2	21	<1	30	<10
547092	<5	<0.2	6	2	30	<10
547093	<5	<0.2	26	<1	60	<10
547094	<5	<0.2	16	1	10	<10
547095	<5	<0.2	12	4	175	<10
547096	<5	<0.2	8	81	60	<10
547097	15	<0.2	8	3	20	<10
547098	18	<0.2	38	112	140	<10
547099	95	<0.2	8	24	40	<10
547100	20	<0.2	19	224	50	<10
547101	25	<0.2	6	1	60	<10
547102	20	<0.2	9	<1	70	<10
547103	15	<0.2	12	<1	<10	<10
547104	10	<0.2	130	3264	10	<10
547105	10	<0.2	11	38	<10	<10
547106	<5	<0.2	10	152	<10	<10
547107	<5	<0.2	9	13	20	<10
547108	<5	<0.2	10	73	70	<10
547109	<5	<0.2	9	15	30	<10
547110	<5	<0.2	10	26	40	<10
547111	<5	<0.2	21	3	20	<10
547112	<5	<0.2	14	11	<10	<10
547113	<5	<0.2	13	7	30	<10
547114	<5	<0.2	6	33	40	<10
547115	910	3	47	2.888	<10	<10
547116	55	<0.2	11	276	50	<10
547117	<5	<0.2	8	33	<10	<10
547118	<5	<0.2	19	28	40	<10
547119	<5	<0.2	33	4129	30	<10
547120	290	<0.2	23	7890	30	<10
547121	280	<0.2	17	3862	60	<10
547122	10	<0.2	33	479	20	<10
547123	205	<0.2	29	1.571	20	<10
547124	1540	<0.2	33	3.658	10	20
547125	325	<0.2	11	1.244	20	20
547126	325	<0.2	55	1.723	20	10
547127	150	<0.2	92	1.311	20	10
547128	430	<0.2	66	1.581	20	10
547129	25	<0.2	121	6771	10	10
547130	200	<0.2	83	1.121	<10	<10
547131	5	<0.2	25	2289	<10	10
547132	<5	<0.2	17	1525	120	<10
547133	75	<0.2	39	3946	<10	60
547134	35	<0.2	16	4.058	<10	<10
547135	<5	<0.2	11	285	<10	<10
547136	50	<0.2	57	1.711	20	40
547137	<5	<0.2	18	889	80	<10
547138	<5	<0.2	12	8	80	<10
547139	10	<0.2	10	55	80	<10
547140	<5	<0.2	10	<1	80	<10
547141	20	0.6	53	2057	10	20
547142	50	0.6	457	120	120	<10
547143	20	<0.2	21	524	40	<10
547144	50	0.8	188	9	20	10
547145	25	<0.2	93	10	10	<10
547146	<5	<0.2	12	2	160	<10
547147	10	<0.2	19	<1	130	<10
547148	20	0.4	1257	932	280	<10
547149	30	1.6	157	1998	100	<10
547150	25	<0.2	206	31	250	<10
547151	545	8	2143	432	90	30
547152	50	3	2078	1831	170	<10
547153	140	<0.2	1593	117	140	<10
547154	280	<0.2	17	3862	60	<10
547155	95	<0.2	2937	24	20	30
547156	<5	<0.2	14	17	40	<10
547157	<5	<0.2	19	3	30	<10
547158	<5	<0.2	12	6	40	<10
547159	20	<0.2	13	4	70	<10
547160	5	<0.2	13	3	40	<10
547161	28	<0.2	17	4	60	<10
547162	10	<0.2	14	4	60	<10
547163	25	<0.2	9	2	50	<10
547164	15	<0.2	19	13	70	<10
547165	<5	<0.2	22	<1	80	<10
547166	<5	<0.2	18	1	50	<10
547167	<5	<0.2	8	27	20	<10
547168	<5	<0.2	10	3	<10	<10
547169	30	0.4	14	788	100	<10
547170	<5	<0.2	13	79	<10	<10
547171	<5	1.2	26	158	30	<10
547172	5	<0.2	59	11	<10	30
547173	10	0.8	103	34	<10	50
547174	145	1	904	1691	160	<10
547175	10	2.4	79	87	30	30
547176	<5	<0.2	11	1	20	<10
547177	<5	<0.2	12	1	70	<10
547178	20	<0.2	17	<1	60	<10
547179	<5	<0.2	13	2	90	<10
547180	<5	<0.2	20	<1	50	<10
547181	20	<0.2	25	540	60	<10
547182	35	<0.2	9	49	70	<10
547183	<5	<0.2	12	22	60	<10
547184	45	<0.2	454	926	10	30
547185	<5	<0.2	17	13	140	<10
547186	<5	<0.2	15	14	180	<10
547187	5	<0.2	15	70	<10	<10
547188	<5	0.4	19	113	40	<10
547189	<5	<0.2	3	69	100	<10
547190	<5	<0.2	8	4	90	<10

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

- Archer, A. Bell, R.T. and Thorpe R. (1986): Age Relationships from U-Th-Pb isotope studies of uranium mineralization in Wernecke breccias; in Current Research, Part A, Geological Survey of Canada, Paper 86-1A, p. 385-391.
- Archer, A.R. and Schmidt, U. (1978): Mineralized Breccias of Early Proterozoic Age, Bonnet Plume River District, Yukon Territory; CIM Bulletin, vol. 71, p. 53-58.
- Bell, R.T. (1978): Breccias and uranium mineralization in the Wernecke Mountains, Yukon - a progress report ; in Current Research, Part A, Geological Survey of Canada, Paper 78-1A. p. 317-322.
- Bell, R.T. (1982): Comments on the geology and uraniferous mineral occurrences of the Wernecke Mountains , Yukon and District of MacKenzie; in Current Research, Geological Survey of Canada, Paper 82-1B. p. 279-284.
- Bell, R.T. (1986): Geological map of northeastern Wernecke Mountains, Yukon Territory; Geological Survey of Canada, Open File 1027.
- Bell, R.T. (1986): Megabreccias in northeastern Wernecke Mountains, Yukon Territory; in Current Research, Part A, Geological Survey of Canada, Paper 86-1A. p. 375-384.
- Bell, R.T. and Delaney, G.D. (1977): Geology of some uranium occurrences in Yukon Territory; in Current Research, Part A, Geological Survey of Canada, Paper 77-1A. p. 33-37.
- Bell, R.T. and Jones, L.D. (1979): Geology of some Uranium Occurrences in Western Canada; in Current Research, Part A, Geological Survey of Canada, Paper 79-1A. p. 397-340.
- Carriere, J.J., Sinclair, W.D. and Kirkham, R.V. (1981): Copper Deposits and Occurrences in Yukon Territory; Geological Survey of Canada, Paper 81-12, 10 pp.
- Delaney, G.D. (1981): The Mid-Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; in Proterozoic Basins of Canada, Geological Survey of Canada, Paper 81-10, p. 1-23.
- Delaney, G.D. (1985): The Middle Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; Unpublished Ph.D. Thesis, University of Western Ontario, 373 pp.
- Eisbacher, G.H. (1978): The Major Proterozoic Unconformities, Northern Cordillera; in Current Research, Part A, Geological Survey of Canada, Paper 78-1A, p. 53-58.

Goodfellow, W.D. (1979): Geochemistry of copper, lead, and zinc mineralization in Proterozoic rocks near Gillespie Lake, Yukon; in Current Research, Part A, Geological Survey of Canada, Paper 79-1A. p. 333-338.

Green, L.H. (1972): Geology of Nash Creek, Larsen Creek and Dawson map-areas, Yukon Territory; Geological Survey of Canada, Memoir 364, 157 pp.

Laznicka, P. and Edwards, R.J. (1979): Dolores Creek, Yukon - a Disseminated Copper Mineralization in Sodic Metasomatites; in Economic Geology, vol. 74, p. 1352-1370.

Yeo, G.M. (1986): Iron-Formation in the late Proterozoic Rapitan Group, Yukon and Northwest Territories; in Mineral Deposits of the Northern Cordillera, Canadian Institute of Mining and Metallurgy Special Vol. 37, p. 142-153.

Young, G.M., Jefferson, C.W., Delaney, G.D. and Yeo, G.M. (1979): Middle and late Proterozoic evolution of the northern Canadian Cordillera and Shield; in Geology, vol. 7, p. 329-330.

Yukon Assessment Reports: 90868

APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

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

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

Elmer Debock (Sr. Prospector)
711, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Murray Jones (Geologist)
904, 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

Bruno Kasper (Field Geologist)
207, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Al Montgomery (Field Geologist)
711, 675 West Hastings Street
Vancouver, B.C. V6B 1N2

Chris Rockingham (Geologist)
904, 1055 Dunsmuir Street
Vancouver, B.C. V7X 1C4

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

K. Parsons (Cook)
c/o TNTA
Carmacks, Yukon

APPENDIX C

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES
MICA 1-42 & HAIL 1-10 CLAIMS**

CANADA) In the matter of an evaluation program on the Mica
) 1-42 & Hail 1-10 Mineral Claims

I, Mike Stammers for Equity Engineering Ltd., 207, 675 West Hastings Street, Vancouver, B.C. do solemnly declare that a program consisting of lithogeochemical sampling, geological mapping, and prospecting was carried out on the Mica 1-42 Mineral Claims during the period August 21 to September 7, 1992, and on the Hail 1-10 Mineral Claims during the period August 30 to September 2, 1992.

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

PROFESSIONAL FEES AND WAGES:

David A. Caulfield, Sr. Geol.		
2.75 days @ \$375/day	\$	1,031.25
Mike Stammers, Sr. Geol.		
1.5 days @ \$375/day		562.50
Chris Rockingham, Geologist		
3.5 days @ \$300/day		1,050.00
Elmer Debock, Sr. Prospector		
4.75 days @ \$250/day		1,187.50
Tom Bell, Sr. Prospector		
2.75 days @ \$250/day		687.50
Murray Jones, Geologist		
1 day @ \$225/day		225.00
Bruno Kasper, Field Geologist		
7.5 days @ \$300/day		2,250.00
Al Montgomery, Field Geologist		
6.5 days @ \$300/day		1,950.00
K. Parsons, Cook		
3.5 days @ \$250/day		<u>875.00</u>
		\$ 9,818.75

EXPENSES:

Travel, Accommodation & Meals	\$	681.23
Airfares		527.00
Camp Food		671.97
Camp Fuel		43.70
Camp Rental		1,015.75
Radio Rental		141.95
Field Equipment Rental		83.30
Equipment Fuel		24.48
Truck Rental		357.10
Field Equipment & Supplies		705.21
Maps and Reproductions		132.70
Expediting		176.72

Telephone and Communications	121.94	
Helicopter & Fuel	2,277.68	
Fixed Wing	3,468.00	
Freight	142.24	
Assays (157 samples @ \$14.95)	2,347.15	
Lawyers Fee (notarizing forms)	10.81	
Clerical (UTM's)	390.15	
Report	1,981.97	
Management Fees	<u>2,965.74</u>	\$ <u>18,226.79</u>

SUBTOTAL: \$ 28,085.54

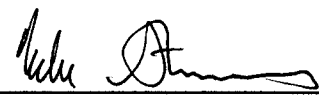
GST:
7% on subtotal 1,965.99

TOTAL: \$ 30,051.53

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 pro rated 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.

Declared before me at Vancouver in)
the Province of British Columbia this)
27th day of JANUARY, 1993.) 


A Commissioner for Oaths for, or
Notary Public for the Yukon Territory

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	earthy 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 : MICA

NTS : 1060/16

Date : 12/18/92

Sample No.	Location :	7193 150 N	Type :	Float	Alteration :	wCL, wSI	Au	Ag	Co	Cu	La	U
		537 700 E		Strike Length Exp. :	----- m	Sulphides :	5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10981	Elevation:	1547 m		Sample Width :	1.0 m	Oxides :	trGE	25.	<0.2	17.	<1	50.
	Orientation:	---- / ---		True Width :	----- m	Host :	Heterolithic breccia					<10.

Comments : Mica 8 claim. Large talus blocks. Mainly subangular pink fragments to 1 centimetre in weakly chloritic, weakly silicified matrix with blebs of coarse HS.

Sample No.	Location :	7195 150 N	Type :	Grab	Alteration :	sSI, wCL	Au	Ag	Co	Cu	La	U
		537 575 E		Strike Length Exp. :	50 m	Sulphides :	1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10982	Elevation:	1612 m		Sample Width :	5.0 m	Oxides :	None	55.	<0.2	9.	<1	50.
	Orientation:	---- / ---		True Width :	5.0 m	Host :	Breccia					<10.

Comments : Mica 4. Pink, intensely silicified breccia (both fragments and matrix silicified). Disseminated spots of specular hematite. Chlorite along crackle breccia. Pink coloration from hematite(?). This sample represents one phase of breccia alteration.

Sample No.	Location :	7195 550 N	Type :	Grab	Alteration :	mCL, mMS, wSI	Au	Ag	Co	Cu	La	U
		538 175 E		Strike Length Exp. :	50 m	Sulphides :	2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10982	Elevation:	1351 m		Sample Width :	12 m	Oxides :	sGE, sJA	55.	<0.2	9.	<1	50.
	Orientation:	180 / 75 W		True Width :	12 m	Host :	Breccia (?)					<10.

Comments : Mica 6 claim. Very rusty zone related to fracturing. Very fine grained PY, fine grained CL throughout bleached, pale maroon (now green - from CL) rock.

Sample No.	Location :	7195 225 N	Type :	Grab	Alteration :	mCL, wSI	Au	Ag	Co	Cu	La	U
		537 600 E		Strike Length Exp. :	10 m	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10983	Elevation:	1642 m		Sample Width :	2.0 m	Oxides :	None	25.	<0.2	12.	<1	50.
	Orientation:	---- / ---		True Width :	2.0 m	Host :	Heterolithic Breccia					<10.

Comments : Mica 4 claim. Breccia with mainly pink, fine-grained, weakly silicified fragments in weakly silicious CL-HS matrix. Sample taken 50 metres northwest of #10983.

Sample No.	Location :	7195 350 N	Type :	Float	Alteration :	wCB, mSI	Au	Ag	Co	Cu	La	U
		537 600 E		Strike Length Exp. :	----- m	Sulphides :	trCC, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10984	Elevation:	1642 m		Sample Width :	5 cm	Oxides :	wMC	225.	<0.2	1.	726.	10.
	Orientation:	---- / ---		True Width :	m	Host :	Heterolithic breccia					<10

Comments : Mica 4 claim. Brick red, subangular fragments (silicious) in silicious, HS matrix. Tr MC associated with minor secondary(?) CC. One piece float. Abundant similar talus nearby without MC.

Sample No.	Location :	7195 500 N	Type :	Float	Alteration :	mCL, mSI	Au	Ag	Co	Cu	La	U
		537 900 E		Strike Length Exp. :	----- m	Sulphides :	20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
10985	Elevation:	1482 m		Sample Width :	50 cm	Oxides :	None	40.	<0.2	10.	<1	70.
	Orientation:	---- / ---		True Width :	m	Host :	Heterolithic breccia					<10

Comments : Mica 6 claim. Subangular pink silicious fine grained fragments to 2cm in fine grained SI-CL-HS matrix. Matrix supported talus boulders. (5)

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Sample No.	Location :	7195 500 N	Type :	Float	Alteration :	sCB, sCL	Au	Ag	Co	Cu	La	U
		537 900 E	Strike Length Exp. :	----- m	Sulphides :	<1%BO, trCC?, <1%CP, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10986	Elevation:	1470 m	Sample Width :	15 cm	Oxides :	mMC	580.	8.0	35.	2.43%	<10	<10.
	Orientation:	---- / ---	True Width :	m	Host :	Breccia (?). Could be andesitic dyke?						

Comments : Mica 6 claim. One talus boulder 25m below 10985. Fine grained pervasive chloritization has obscured bx textures. Irregular patches of sparry FECB with coarse clots BO. Minor fine grained HS and CP throughout.

Sample No.	Location :	7195 425 N	Type :	Grab	Alteration :	wCB	Au	Ag	Co	Cu	La	U
		538 100 E	Strike Length Exp. :	50 m	Sulphides :	<1%CP, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10987	Elevation:	1358 m	Sample Width :	5 m	Oxides :	trMC	30.	<0.2	6.	207.	110.	<10.
	Orientation:	---- / ---	True Width :	5 m	Host :	Heterolithic breccia						

Comments : Mica 6 claim. Pale blue-grey, little altered bx. Clast supported with pink, grey, dark grey, etc. subangular clasts. Blebs of CP or HS. Large limonitic voids after siderite.

Sample No.	Location :	7193 450 N	Type :	Grab	Alteration :	wCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		538 150 E	Strike Length Exp. :	>25 m	Sulphides :	15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
485081	Elevation:	1610 m	Sample Width :	2.0 m	Oxides :	None	405.	<0.2	7.	<1	<10	<10.
	Orientation:	025 / 80 NW	True Width :	2.0? m	Host :	Heterolithic breccia						

Comments : Mica 17 claim. Essentially a matrix (SI + HS) supported breccia. Fragments are light pink hematite stained and average 2-3cm. Fragments are sub-well rounded.

Sample No.	Location :	7193 550 N	Type :	Float	Alteration :	wCL, sSI, sHE	Au	Ag	Co	Cu	La	U
		538 050 E	Strike Length Exp. :	m	Sulphides :	20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
485082	Elevation:	1630 m	Sample Width :	m	Oxides :	None	15.	<0.2	9.	10.	190.	120.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Mica 17 claim. Talus slope grab sample. Source of float within 20-30m up slope. Local patches of copper lichen on boulder.

Sample No.	Location :	7193 500 N	Type :	Float	Alteration :	sQZ, sSI	Au	Ag	Co	Cu	La	U
		537 800 E	Strike Length Exp. :	m	Sulphides :	20%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
485083	Elevation:	1410 m	Sample Width :	m	Oxides :	GE, JA	80.	0.4	259.	8.	240.	<10
	Orientation:	/	True Width :	m	Host :	Silicified rock unit						

Comments : Mica 10 claim. Rusty float boulders in talus with gossanous outcrop located 40m up slope. Rustiest boulders average 20 x 30cm. Pyrite finely disseminated and occurs as coarser grains. Zone appears to be irregular.

Sample No.	Location :	7193 325 N	Type :	Float	Alteration :	wCL	Au	Ag	Co	Cu	La	U
		538 350 E	Strike Length Exp. :	----- m	Sulphides :	5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
508943	Elevation:	1665 m	Sample Width :	m	Oxides :	wGE	35.	<0.2	12.	29.	20.	<10.
	Orientation:	---- / ---	True Width :	m	Host :	Heterolithic breccia						

Comments : Talus located 130 metres at 028 from #1 Post Mica 17, 18. Breccia with 5% HS in coarse clots in matrix. Green and purple subangular siltstone fragments to 5 centimetres. Comprises 30% of talus.

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Sample No.	Location :	7195 950 N	Type :	Float	Alteration :	sCL, mSI	Au	Ag	Co	Cu	La	U
		537 800 E	Strike Length Exp. :	----- m	Sulphides :	15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
508944	Elevation:	1735 m	Sample Width :	>1.0 m	Oxides :	WGE	25.	<0.2	18.	18.	40.	<10.
	Orientation:	---- / ---	True Width :	----- m	Host :	Heterolithic breccia						

Comments : Big blocks of heterolithic breccia with pink fine-grained rounded silicified fragments in fairly fine-grained CL-HS matrix. Taken at Post #1 for Mica 23 & 24 claims. Float of 2cm QZ-MC vein nearby.

Sample No.	Location :	7194 785 N	Type :	Grab	Alteration :	WCB, WCL, WMS, mSI, mHE	Au	Ag	Co	Cu	La	U
		537 760 E	Strike Length Exp. :	m	Sulphides :	trPY, trHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547001	Elevation:	1390 m	Sample Width :	10 m	Oxides :	WGE	<5	0.4	9.	148.	90.	<10
	Orientation:	/	True Width :	m	Host :	Altered sediments						

Comments : Sampled outcrop, dark grey blocky, faintly banded very fine-grained sediments; minor carbonate and quartz stringers.

Sample No.	Location :	7194 880 N	Type :	Grab	Alteration :	WCB, WCL, mSI, mHE	Au	Ag	Co	Cu	La	U
		537 760 E	Strike Length Exp. :	m	Sulphides :	HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547002	Elevation:	1405 m	Sample Width :	10 m	Oxides :	WGE	<5	<0.2	8.	19.	60.	<10
	Orientation:	/	True Width :	m	Host :	Altered very fine-grained sediments						

Comments : Specular hematite stringers +/- very fine-grained disseminations. Dark maroon-grey with lighter pinkish bands and patches (hem?), faint colour banding, minor carbonate on hairline fractures.

Sample No.	Location :	7194 920 N	Type :	Float	Alteration :	CB, CL, SI	Au	Ag	Co	Cu	La	U
		537 755 E	Strike Length Exp. :	m	Sulphides :	5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547003	Elevation:	1405 m	Sample Width :	m	Oxides :		<5	<0.2	16.	95.	60.	<10
	Orientation:	/	True Width :	m	Host :	Jasperoidal breccia						

Comments : Select sample of talus below small waterfall, bright green and red, chlorite-jasperoidal(?) breccia.

Sample No.	Location :	7195 020 N	Type :	Grab	Alteration :	WCB, WQZ, mSI	Au	Ag	Co	Cu	La	U
		537 790 E	Strike Length Exp. :	m	Sulphides :	<1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547004	Elevation:	1425 m	Sample Width :	10 m	Oxides :	WGE	<5	<0.2	4.	6.	10.	<10
	Orientation:	/	True Width :	m	Host :	Altered very fine-grained sediments (near breccia?)						

Comments : As 547002, some bedding apparent from weathering patterns. Minor to 1% specular hematite-fracture controlled and disseminated.

Sample No.	Location :	7195 095 N	Type :	Grab	Alteration :	mCB, mSI	Au	Ag	Co	Cu	La	U
		537 835 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547005	Elevation:	1410 m	Sample Width :	m	Oxides :	WGE	<5	<0.2	9.	289.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Classic heterolithic breccia with abundant angular to sub-rounded fragments of various lithologies (incl. red jas.) <1cm - >10cm diameter; plus finer crystal fragments and euhedral clear white crystals 2-4mm; very fine-grained ground mass.

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Sample No.	Location :	7195 180 N	Type :	Grab	Alteration :	CB, CL, SI	Au	Ag	Co	Cu	La	U
		537 910 E	Strike Length Exp. :	m	Sulphides :	1-5%HS, trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547006	Elevation:	1390 m	Sample Width :	10 m	Oxides :	wGE, wMC	<5	<0.2	9.	216.	10.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : As 547005; a select area (<1 sq.m) with very fine-grained to very coarse chalcopyrite occurs - disseminated and fracture related with weak to strong malachite; not representative of whole area. Small amount of this added to sample.

Sample No.	Location :	7195 270 N	Type :	Grab	Alteration :	mCL, mSI	Au	Ag	Co	Cu	La	U
		537 950 E	Strike Length Exp. :	m	Sulphides :	3-6%HS, trCP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547007	Elevation:	1390 m	Sample Width :	m	Oxides :	wMC	<5	<0.2	25.	133.	0.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia (in talus shoot)						

Comments : Assortment of heterolithic breccia, lots with red (jasp.) fragments ; one piece very chloritic with weak-mod. malachite, small piece in bag.

Sample No.	Location :	7195 300 N	Type :	Grab	Alteration :	wCB, wCL?, mSI	Au	Ag	Co	Cu	La	U
		537 950 E	Strike Length Exp. :	m	Sulphides :	1-2%HS, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547008	Elevation:	1390 m	Sample Width :	5 m	Oxides :		<5	<0.2	13.	47.	70.	<10
	Orientation:	/	True Width :	m	Host :	Altered very fine-grained sediments (marginal to breccia)						

Comments : Dark grey to pinkish grey, faintly banded sediments; very fine-grained disseminated pyrite.

Sample No.	Location :	7195 380 N	Type :	Grab	Alteration :	wCB, mSI	Au	Ag	Co	Cu	La	U
		537 990 E	Strike Length Exp. :	m	Sulphides :	trCP, <1%PY, 2-4%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547009	Elevation:	1395 m	Sample Width :	m	Oxides :	wGE	<5	<0.2	16.	47.	50.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Abundant fragments, siliceous matrix, several rusty spots in weathered surfaces with pyrite and/or chalcopyrite accumulations.

Sample No.	Location :	7195 470 N	Type :	Grab	Alteration :	mCL, mSI	Au	Ag	Co	Cu	La	U
		538 010 E	Strike Length Exp. :	m	Sulphides :	3%PY, trHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547010	Elevation:	1410 m	Sample Width :	5 m	Oxides :	sGE, sJA, wMN	<5	<0.2	10.	35.	30.	<10
	Orientation:	/	True Width :	5 m	Host :	Heterolithic breccia						

Comments : Very gossanous zone exposed 20m x 10m, fractured, fine-grained disseminated pyrite; grab sample same as 10988, June 30, 1992.

Sample No.	Location :	7195 570 N	Type :	Grab	Alteration :	wCB, mSI	Au	Ag	Co	Cu	La	U
		538 050 E	Strike Length Exp. :	m	Sulphides :	trCP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547011	Elevation:	1405 m	Sample Width :	m	Oxides :		<5	<0.2	11.	28.	0.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Fragments very faint, hard to distinguish although probably fragment poor.

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Sample No.	Location :	7195 640 N	Type :	Grab	Alteration :	wCB, wCL, mSI	Au	Ag	Co	Cu	La	U
		538 140 E		Strike Length Exp. : m	Sulphides :	2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547012	Elevation:	1410 m		Sample Width : m	Oxides :		<5	<0.2	9.	39.	50.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Classic heterolithic breccia, silica main matrix constituent.

Sample No.	Location :	7195 730 N	Type :	Grab	Alteration :	wCB, wCL, mSI, wHE	Au	Ag	Co	Cu	La	U
		538 225 E		Strike Length Exp. : m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547013	Elevation:	1420 m		Sample Width : m	Oxides :		<5	<0.2	13.	11.	20.	<10
	Orientation:	/		True Width : m	Host :	Altered very fine-grained sediments (talus)						

Comments : Banded, grey and pinkish grey sediments; minor brecciation.

Sample No.	Location :	7195 825 N	Type :	Grab	Alteration :	wCB, wCL, mSI, wHE	Au	Ag	Co	Cu	La	U
		538 300 E		Strike Length Exp. : m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547014	Elevation:	1450 m		Sample Width : m	Oxides :	GE	<5	<0.2	13.	4.	870.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia and altered sediments (talus)						

Comments : Mixed talus, heterolithic breccia (siliceous matrix) and altered sediments.

Sample No.	Location :	7195 930 N	Type :	Grab	Alteration :	wCB, mSI	Au	Ag	Co	Cu	La	U
		538 380 E		Strike Length Exp. : m	Sulphides :	trCP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547015	Elevation:	1455 m		Sample Width : m	Oxides :	mGE, trMC	10.	<0.2	9.	38.	20.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Well developed heterolithic breccia, fragments <1cm to >20cm, rare copper mineralization. Sample composite of a small talus field.

Sample No.	Location :	7196 070 N	Type :	Grab	Alteration :	mCB, wCL, wQZ, mSI	Au	Ag	Co	Cu	La	U
		538 430 E		Strike Length Exp. : m	Sulphides :	trCP, trPY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547016	Elevation:	1440 m		Sample Width : 20 m	Oxides :	MC	5.	<0.2	13.	250.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Fragment rich heterolithic breccia, common quartz-carbonate fracture filling, fine-grained patchy, disseminated chalcopyrite fairly common; some chalcopyrite associated with carbonate?

Sample No.	Location :	7195 050 N	Type :	Select	Alteration :	mCB, mSI	Au	Ag	Co	Cu	La	U
		538 425 E		Strike Length Exp. : 3.0 m	Sulphides :	<1%CP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547017	Elevation:	1450 m		Sample Width : 2.0 m	Oxides :	wMC	30.	<0.2	17.	3018.	100.	<10
	Orientation:	/		True Width : 2.0 m	Host :	Heterolithic breccia						

Comments : Disseminated chalcopyrite in heterolithic breccia over 3 sq.m; coarse grained chalcopyrite in matrix and in carbonate veinlets.

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Sample No.	Location :	7195 080 N	Type :	Float	Alteration :	mCB	Au	Ag	Co	Cu	La	U
		538 460 E	Strike Length Exp. :	m	Sulphides :	1%CP, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547018	Elevation:	1440 m	Sample Width :	m	Oxides :	wMC	270.	<0.2	8.	1.02%	220.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : 20cm diameter talus in creek, deep maroon, very fine-grained with crackle breccia texture infilled by tan carbonate fracture filling; hosting 1-3% coarse to fine-grained chalcopyrite.

Sample No.	Location :	7194 425 N	Type :	Grab	Alteration :	None visible	Au	Ag	Co	Cu	La	U
		536 840 E	Strike Length Exp. :	>100 m	Sulphides :	1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547065	Elevation:	1800 m	Sample Width :	1.5 m	Oxides :	GE	<5	<0.2	4.	20.	30.	<10
	Orientation:	160 / 37 W	True Width :	0.8 m	Host :	Black shale						

Comments : Random grab from outcrop.

Sample No.	Location :	7194 515 N	Type :	Grab	Alteration :	wSI	Au	Ag	Co	Cu	La	U
		536 875 E	Strike Length Exp. :	>100 m	Sulphides :	None visible	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547066	Elevation:	1795 m	Sample Width :	1.3 m	Oxides :	GE	<5	<0.2	9.	7.	20.	<10
	Orientation:	148 / 60 SW	True Width :	1.1 m	Host :	Interbedded greywacke and siltstone						

Comments : Random grab from outcrop.

Sample No.	Location :	7194 600 N	Type :	Grab	Alteration :	None visible	Au	Ag	Co	Cu	La	U
		536 920 E	Strike Length Exp. :	5 m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547067	Elevation:	1798 m	Sample Width :	1.70 m	Oxides :	GE	<5	<0.2	9.	14.	30.	<10
	Orientation:	148 / 75 NE	True Width :	1.05 m	Host :	Black slate						

Comments : Grab from outcrop. Heterolithic breccia talus all around.

Sample No.	Location :	7194 680 N	Type :	Grab	Alteration :	wCA, wCL, wSI	Au	Ag	Co	Cu	La	U
		536 975 E	Strike Length Exp. :	>50 m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547068	Elevation:	1820 m	Sample Width :	2.0 m	Oxides :		<5	<0.2	25.	<1	40.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Breccia generally clast supported. Specular hematite occurs along fractures or is disseminated in the matrix.

Sample No.	Location :	7194 785 N	Type :	Grab	Alteration :	wCA, wCL, wSI	Au	Ag	Co	Cu	La	U
		536 990 E	Strike Length Exp. :	>100 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547069	Elevation:	1830 m	Sample Width :	5.0 m	Oxides :	None	<5	<0.2	18.	<1	0.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Random grab from outcrop.

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Sample No.	Location :	7194 880 N	Type :	Float	Alteration :	wCA, wCL, wSI	Au	Ag	Co	Cu	La	U
		537 090 E	Strike Length Exp. :	m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547070	Elevation:	1850 m	Sample Width :	m	Oxides :	None	<5	<0.2	17.	<1	50.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Grab from talus. Specular hematite is either disseminated in the matrix or smeared along fractures.

Sample No.	Location :	7194 955 N	Type :	Grab	Alteration :	wCA, mCL, sSI	Au	Ag	Co	Cu	La	U
		537 090 E	Strike Length Exp. :	>100 m	Sulphides :	2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547071	Elevation:	1882 m	Sample Width :	1.0 m	Oxides :	None	<5	<0.2	18.	<1	100.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic (?) breccia						

Comments : Clasts in breccia are strongly siliceous and difficult to distinguish. Breccia is matrix supported. Hematite is finely disseminated throughout.

Sample No.	Location :	7195 040 N	Type :	Grab	Alteration :	wCA, mCL, m-sSI	Au	Ag	Co	Cu	La	U
		537 145 E	Strike Length Exp. :	>50 m	Sulphides :	2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547072	Elevation:	1852 m	Sample Width :	2.0 m	Oxides :		<5	<0.2	28.	7.	80.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Fragments within breccia are strongly silicified. Specular hematite is disseminated throughout the matrix.

Sample No.	Location :	7195 110 N	Type :	Grab	Alteration :	wCA, mCL, m-sSI	Au	Ag	Co	Cu	La	U
		537 190 E	Strike Length Exp. :	>100 m	Sulphides :	2-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547073	Elevation:	1865 m	Sample Width :	6.0 m	Oxides :	None	<5	<0.2	21.	<1	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic (?) breccia						

Comments : Breccia's matrix is more siliceous. Appears to be a heterolithic breccia?

Sample No.	Location :	7195 150 N	Type :	Float	Alteration :	wCA, wCL, mMS, sSI	Au	Ag	Co	Cu	La	U
		537 230 E	Strike Length Exp. :	m	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547074	Elevation:	1860 m	Sample Width :	m	Oxides :		<5	<0.2	6.	2.	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Pinkish weathering heterolithic breccia contains a black sooty mineral with the specular hematite/chalcocite. Source is from escarpment above.

Sample No.	Location :	7195 175 N	Type :	Grab	Alteration :	wBI, wCA, mCL, mSI	Au	Ag	Co	Cu	La	U
		537 240 E	Strike Length Exp. :	>100 m	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547075	Elevation:	1865 m	Sample Width :	1.8 m	Oxides :	None	<5	<0.2	26.	<1	60.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Random grab of heterolithic breccia. Secondary biotite growths appearing in the matrix.

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Sample No.	Location :	7195 260 N	Type :	Grab	Alteration :	wBI, sSI	Au	Ag	Co	Cu	La	U
		537 300 E		Strike Length Exp. : 20 m	Sulphides :	1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547076	Elevation:	1822 m		Sample Width : 1.2 m	Oxides :	None	<5	<0.2	2.	16.	10.	<10
	Orientation:	005 / 65 W		True Width : 0.94 m	Host :	Hornfelsed, thinly bedded sediments						

Comments : Random grab of hornfelsed sedimentary rock. Specular hematite found along fracture surfaces.

Sample No.	Location :	7195 340 N	Type :	Grab	Alteration :	wCA, mSI	Au	Ag	Co	Cu	La	U
		537 380 E		Strike Length Exp. : 30 m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547077	Elevation:	1802 m		Sample Width : 1.6 m	Oxides :	None	<5	<0.2	12.	4.	170.	<10
	Orientation:	/		True Width : m	Host :	Hornfelsed sedimentary rock						

Comments : Specular hematite occurs mainly as stringers along fractures.

Sample No.	Location :	7195 295 N	Type :	Float/grab	Alteration :	mCA, sCB, wCL, sSI, HE	Au	Ag	Co	Cu	La	U
		536 770 E		Strike Length Exp. : m	Sulphides :	3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547201	Elevation:	1570 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	8.	81.	60.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : Dark grey aphanitic fragments with conchoidal fractures contains carbonate veins and pink siliceous fragments. 100m from 548500.

Sample No.	Location :	7195 385 N	Type :	Float	Alteration :	mCA, mCB, wCL, sSI	Au	Ag	Co	Cu	La	U
		536 740 E		Strike Length Exp. : >100 m	Sulphides :	trPY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547202	Elevation:	1540 m		Sample Width : 2x2 m	Oxides :	None	5.	<0.2	6.	65.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Some siliceous and hematitic blocks have distinct layers.

Sample No.	Location :	7195 485 N	Type :	Float	Alteration :	mCA, mCB, sSI	Au	Ag	Co	Cu	La	U
		536 715 E		Strike Length Exp. : >100 m	Sulphides :	3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547203	Elevation:	1530 m		Sample Width : 2x2 m	Oxides :	None	15.	<0.2	8.	3.	20.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Some dolomitic matrix breccia with stringers of specular hematite (ref. sample). Other pieces same as previous samples.

Sample No.	Location :	7195 570 N	Type :	Float/select	Alteration :	CA, mQZ	Au	Ag	Co	Cu	La	U
		536 725 E		Strike Length Exp. : m	Sulphides :	trCP, 1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547204	Elevation:	1530 m		Sample Width : m	Oxides :	AZ, MC	15.	<0.2	38.	1112.	140.	<10
	Orientation:	/		True Width : m	Host :	Quartet slate or argillite						

Comments : 80m from 547203.

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Sample No.	Location :	7195 585 N	Type :	Float	Alteration :	wCA, mCB, wCL, sSI	Au	Ag	Co	Cu	La	U
		536 725 E		Strike Length Exp. : m	Sulphides :	2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547205	Elevation:	1520 m		Sample Width : 2x2 m	Oxides :	None	95.	<0.2	8.	24.	40.	<10
	Orientation:	/		True Width : m	Host :	Breccia						

Comments : Typical siliceous breccia. Old baseline passes through site. 100m from 547203.

Sample No.	Location :	7195 670 N	Type :	Float	Alteration :	mCB, sSI	Au	Ag	Co	Cu	La	U
		536 630 E		Strike Length Exp. : m	Sulphides :	trCP, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547206	Elevation:	1520 m		Sample Width : m	Oxides :	MC	20.	<0.2	19.	224.	50.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia?						

Comments : Composite sample between 547205 and 547207 of red siliceous breccia with fine fragments and high hematite content.

Sample No.	Location :	7195 670 N	Type :	Float	Alteration :	wCA, mCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		536 630 E		Strike Length Exp. : >100 m	Sulphides :	3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547207	Elevation:	1500 m		Sample Width : 2x2 m	Oxides :	None	25.	<0.2	6.	1.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia?						

Comments : Stringers of specular hematite in siliceous matrix with beige fragments of dolomite.

Sample No.	Location :	7195 725 N	Type :	Float	Alteration :	wCA, mCB, wCE, sSI	Au	Ag	Co	Cu	La	U
		536 540 E		Strike Length Exp. : m	Sulphides :	2-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547208	Elevation:	1470 m		Sample Width : 2x2 m	Oxides :	None	20.	<0.2	9.	<1	70.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : Slate - breccia contact strikes 160o. Quartet dips steepen up near contact. 100m from 547207.

Sample No.	Location :	7195 810 N	Type :	Float	Alteration :	sCA, sCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		536 470 E		Strike Length Exp. : >100 m	Sulphides :	2-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547209	Elevation:	1470 m		Sample Width : 2x2 m	Oxides :	None	15.	<0.2	12.	<1	0.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : Talus from breccia in predominantly slate talus. 100m from 547208.

Sample No.	Location :	7195 850 N	Type :	Float	Alteration :	sCL, QZ, mSI	Au	Ag	Co	Cu	La	U
		536 440 E		Strike Length Exp. : m	Sulphides :	CC?, trCP, trPY, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547210	Elevation:	1470 m		Sample Width : 20 cm	Oxides :	AZ, MC	30.	<0.2	130.	3264.	10.	<10
	Orientation:	/		True Width : m	Host :	Breccia						

Comments : Quartz vein with abundant AZ, MC, HS, and not much pyrite or chalcopyrite. This is not representative of overall talus.

Property : MICA

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Sample No.	Location :	7195 000 N	Type :	Grab	Alteration :	CA, DO	Au	Ag	Co	Cu	La	U
		538 615 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547572	Elevation:	1415 m	Sample Width :	m	Oxides :	None	10.	<0.2	11.	28.	0.	<10
	Orientation:	100 / 46 N	True Width :	m	Host :	Gillespie dolomite						

Comments : Part of syncline in Gillespie, north of breccia contact.

Sample No.	Location :	7194 915 N	Type :	Grab	Alteration :	DO, GR	Au	Ag	Co	Cu	La	U
		538 570 E	Strike Length Exp. :	m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547573	Elevation:	1440 m	Sample Width :	m	Oxides :	None	<5	<0.2	10.	152.	0.	<10
	Orientation:	145 / 43 NE	True Width :	m	Host :	Gillespie dolomite-shaly section						

Comments : Float of Gillespie with chalcopryrite in quartz veinlets.

Sample No.	Location :	7194 835 N	Type :	Grab	Alteration :	DO, HE	Au	Ag	Co	Cu	La	U
		538 520 E	Strike Length Exp. :	2 m	Sulphides :	HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547574	Elevation:	1445 m	Sample Width :	2x2 m	Oxides :	None	<5	<0.2	9.	13.	20.	<10
	Orientation:	/	True Width :	m	Host :	Breccia-sediment (large block in breccia)						

Comments :

Sample No.	Location :	7194 750 N	Type :	Grab	Alteration :	CA	Au	Ag	Co	Cu	La	U
		538 460 E	Strike Length Exp. :	m	Sulphides :	trPY, CP?, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547575	Elevation:	1440 m	Sample Width :	2x2 m	Oxides :	None	<5	<0.2	10.	73.	70.	<10
	Orientation:	/	True Width :	m	Host :	Hematized sedimentary breccia						

Comments : Brittle rock, quartz-specular hematite in breccia matrix. No trace of copper.

Sample No.	Location :	7194 665 N	Type :	Grab	Alteration :	CL, HE	Au	Ag	Co	Cu	La	U
		538 420 E	Strike Length Exp. :	m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547576	Elevation:	1440 m	Sample Width :	2x2 m	Oxides :	None	<5	<0.2	9.	15.	30.	<10
	Orientation:	/	True Width :	m	Host :	Breccia - mostly sedimentary material						

Comments : Weakly brecciated sediment.

Sample No.	Location :	7194 575 N	Type :	Grab	Alteration :	CL, WHE	Au	Ag	Co	Cu	La	U
		538 380 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547577	Elevation:	1455 m	Sample Width :	2x2 m	Oxides :	None	<5	<0.2	10.	26.	40.	<10
	Orientation:	/	True Width :	m	Host :	Sediment raft in breccia						

Comments : Finely laminated argillaceous sediment raft in breccia.

Property : MICA

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Sample No.	Location :	7194 480 N	Type :	Talus	Alteration :	Au	Ag	Co	Cu	La	U
		538 360 E		Strike Length Exp. : m	Sulphides :	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547578	Elevation:	1480 m		Sample Width : m	Oxides :	<5	<0.2	21.	3.	20.	<10
	Orientation:	/		True Width : m	Host :	Mostly hematite breccia, minor sediments					

Comments : Large talus run.

Sample No.	Location :	7194 480 N	Type :	Grab	Alteration :	CA, CL	Au	Ag	Co	Cu	La	U
		538 330 E		Strike Length Exp. : 50 m	Sulphides :	wHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547579	Elevation:	1520 m		Sample Width : m	Oxides :	None	<5	<0.2	14.	11.	70.	<10
	Orientation:	/		True Width : m	Host :	Hematized sediment						

Comments : Quartz calcite veinlets with specular hematite.

Sample No.	Location :	7194 345 N	Type :	Grab	Alteration :		Au	Ag	Co	Cu	La	U
		538 245 E		Strike Length Exp. : m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547580	Elevation:	1480 m		Sample Width : m	Oxides :		<5	<0.2	13.	7.	30.	<10
	Orientation:	/		True Width : m	Host :	Hematite breccia - heterolithic						

Comments : Well indurated breccia - very hard. Clasts generally hematized.

Sample No.	Location :	7194 265 N	Type :	Grab	Alteration :	QZ, HE	Au	Ag	Co	Cu	La	U
		538 200 E		Strike Length Exp. : m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547581	Elevation:	1470 m		Sample Width : m	Oxides :		<5	<0.2	6.	33.	40.	<10
	Orientation:	/		True Width : m	Host :	Hematite breccia/sedimentary clasts						

Comments : Largely recrystallized? Very hard. Clasts generally hematized.

Sample No.	Location :	7194 480 N	Type :	Select	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		538 030 E		Strike Length Exp. : 15 m	Sulphides :	1-5%CP, MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547582	Elevation:	1520 m		Sample Width : 10x10 m	Oxides :		910.	3.0	47.	2.88%	0.	<10
	Orientation:	/		True Width : m	Host :	Carbonate zone, quartz stockwork						

Comments : Frost boil of carbonate altered rock, with quartz stockwork. Abundant chalcopyrite massive magnetite.

Sample No.	Location :	7194 490 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		538 035 E		Strike Length Exp. : 3 m	Sulphides :	trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547583	Elevation:	1320 m		Sample Width : 2x2 m	Oxides :		55.	<0.2	11.	276.	50.	<10
	Orientation:	/		True Width : m	Host :	Hematized sediments - breccia?						

Comments : Raft? in carbonate zone boil.

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Sample No.	Location :	7197 690 N	Type :	Float	Alteration :	AB, HE	Au	Ag	Co	Cu	La	U
		538 115 E		Strike Length Exp. : m	Sulphides :	trPY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547730	Elevation:	1533 m		Sample Width : m	Oxides :		<5	<0.2	8.	13.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Lithogeochem composite of talus, strong salmon colour as this sample was taken adjacent to Gillespie dolomite.

Sample No.	Location :	7197 740 N	Type :	Float	Alteration :	CL, MS, AB, HE	Au	Ag	Co	Cu	La	U
		538 230 E		Strike Length Exp. : m	Sulphides :	<1%CP, trPY, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547731	Elevation:	1522 m		Sample Width : m	Oxides :		<5	<0.2	19.	28.	40.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic Wernecke breccia						

Comments : Lithogeochem composite of talus located 100m east of 547730. Still in contact zone with salmon pink colouration.

Sample No.	Location :	7195 620 N	Type :	Float	Alteration :	CB	Au	Ag	Co	Cu	La	U
		538 260 E		Strike Length Exp. : m	Sulphides :	<1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547901	Elevation:	1340 m		Sample Width : m	Oxides :	MC	<5	<0.2	9.	1244.	10.	20.
	Orientation:	/		True Width : m	Host :	Crackled argillite						

Comments : Disseminated chalcopyrite throughout. 50cm boulder. Widespread in talus.

Sample No.	Location :	7195 640 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		538 290 E		Strike Length Exp. : m	Sulphides :	BO, <1%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547902	Elevation:	1340 m		Sample Width : m	Oxides :	MC	30.	<0.2	33.	4129.	30.	<10
	Orientation:	/		True Width : m	Host :	Hematite breccia						

Comments : Sparse in talus below breccia outcrop. 20m east of 547901.

Sample No.	Location :	7195 640 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		538 370 E		Strike Length Exp. : m	Sulphides :	3%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547903	Elevation:	1330 m		Sample Width : 75 cm	Oxides :	MC	290.	<0.2	23.	7890.	30.	10.
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : 40m downslope from hematite breccia outcrop below draw.

Sample No.	Location :	7195 670 N	Type :	Float	Alteration :	SI, HE, CA	Au	Ag	Co	Cu	La	U
		538 400 E		Strike Length Exp. : m	Sulphides :	1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547904	Elevation:	1320 m		Sample Width : 30 cm	Oxides :	MC	280.	<0.2	17.	3862.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Pink breccia, very silicified. Fairly common along slope. Outcrop source at 1400m. Breccia continues to 1450m with minor shear zones containing barite (15cm).

Property : MICA

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Sample No.	Location :	7195 665 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		538 490 E		Strike Length Exp. : m	Sulphides :	CC- secondary	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547905	Elevation:	1320 m		Sample Width : 30 cm	Oxides :	MC	10.	<0.2	13.	479.	20.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Abundant in talus over 30-50m area.

Sample No.	Location :	7195 895 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		538 565 E		Strike Length Exp. : m	Sulphides :	10%CP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547906	Elevation:	1345 m		Sample Width : 40 cm	Oxides :	MC	105.	<0.2	29.	1.57%	20.	10.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Good mineralization - fairly abundant along creek from 1330m up.

Sample No.	Location :	7195 875 N	Type :	Float	Alteration :	CB	Au	Ag	Co	Cu	La	U
		538 410 E		Strike Length Exp. : m	Sulphides :	20%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547907	Elevation:	1460 m		Sample Width : m	Oxides :	MC, JA	1540.	<0.2	33.	3.65%	10.	20.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : All subcrop which extends at least to 1475m.

Sample No.	Location :	7195 890 N	Type :	Select	Alteration :	CB, KF? (HE)	Au	Ag	Co	Cu	La	U
		538 450 E		Strike Length Exp. : m	Sulphides :	20%CP, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547908	Elevation:	1450 m		Sample Width : 25 cm	Oxides :	MC	70.	<0.2	11.	3.24%	20.	20.
	Orientation:	/		True Width : 20-30 cm	Host :	Heterolithic breccia						

Comments : Chalcopyrite throughout host rock, although concentrated at fracture zones.

Sample No.	Location :	7195 860 N	Type :	Select	Alteration :	CB	Au	Ag	Co	Cu	La	U
		538 490 E		Strike Length Exp. : 35 m	Sulphides :	20%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547909	Elevation:	1445 m		Sample Width : 20 cm	Oxides :	MC	325.	<0.2	55.	1.72%	20.	10.
	Orientation:	096 /		True Width : 20 m	Host :	Heterolithic breccia						

Comments :

Sample No.	Location :	7195 860 N	Type :	Select	Alteration :	sCL, wCB	Au	Ag	Co	Cu	La	U
		538 490 E		Strike Length Exp. : m	Sulphides :	5%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547910	Elevation:	1445 m		Sample Width : 20 cm	Oxides :	None	150.	<0.2	92.	1.31%	20.	10.
	Orientation:	096 /		True Width : 20 m	Host :	Heterolithic breccia						

Comments :

Property : MICA

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Sample No.	Location :	7195 890 N	Type :	Float	Alteration :	None	Au	Ag	Co	Cu	La	U
		538 500 E		Strike Length Exp. : m	Sulphides :	20%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547911	Elevation:	1435 m		Sample Width : 40 cm	Oxides :	MC, CC	430.	<0.2	66.	1.59%	20.	<10
	Orientation:	096 /		True Width : m	Host :	Heterolithic breccia						

Comments : Subcrop, directly below outcrop.

Sample No.	Location :	7195 955 N	Type :	Select	Alteration :	sCL, SI, HE	Au	Ag	Co	Cu	La	U
		538 565 E		Strike Length Exp. : 5 m	Sulphides :	3%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547912	Elevation:	1415 m		Sample Width : 20 m	Oxides :	MC	25.	<0.2	121.	6771.	10.	10.
	Orientation:	/		True Width : 5 m	Host :	Heterolithic breccia						

Comments : This zone may be extension of 547909-911 zone.

Sample No.	Location :	7195 850 N	Type :	Float	Alteration :	CB	Au	Ag	Co	Cu	La	U
		538 660 E		Strike Length Exp. : m	Sulphides :	3%BO, 1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547913	Elevation:	1370 m		Sample Width : m	Oxides :	MC	200.	<0.2	53.	1.47%	0.	110.
	Orientation:	/		True Width : m	Host :	Altered sedimentary rock						

Comments : Float found in creek bed below small zone of sedimentary rocks in breccia. Chalcopyrite located in place within breccia at 1390m elevation in creek.

Sample No.	Location :	7195 570 N	Type :	Float	Alteration :	wCL, wHE	Au	Ag	Co	Cu	La	U
		538 130 E		Strike Length Exp. : m	Sulphides :	trBO, <1%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548001	Elevation:	1380 m		Sample Width : m	Oxides :	None	5.	<0.2	25.	2289.	0.	10.
	Orientation:	/		True Width : m	Host :	Vein						

Comments : Not close to source; not common in talus slope. Float approximately 20cm long.

Sample No.	Location :	7195 640 N	Type :	Select	Alteration :	CL, wHE	Au	Ag	Co	Cu	La	U
		538 080 E		Strike Length Exp. : 2-3 m	Sulphides :	1%CP, 2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548002	Elevation:	1450 m		Sample Width : 1.0 m	Oxides :	MC, NE (black wad)	<5	<0.2	17.	1525.	120.	<10
	Orientation:	058 / V		True Width : 1.0 m	Host :	Hematite breccia						

Comments : Zone width is much wider than sample, can follow up draw for 30m. Slickensides throughout (probably faulted) best copper.

Sample No.	Location :	7195 640 N	Type :	Select	Alteration :	wCL, wHE	Au	Ag	Co	Cu	La	U
		538 040 E		Strike Length Exp. : 2-3 m	Sulphides :	trCP?, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548003	Elevation:	1465 m		Sample Width : 30 cm	Oxides :	MC, NE	75.	<0.2	39.	3946.	0.	60.
	Orientation:	065 / 30 NW		True Width : 30 cm	Host :	Hematite breccia						

Comments : Located 30m up from 548002; similar mineralization all the way up from 548002.

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Sample No.	Location :	7195 680 N	Type :	Select	Alteration :	sCA, wCL, wQZ, wHE	Au	Ag	Co	Cu	La	U
		538 000 E		Strike Length Exp. : 5.0 m	Sulphides :	<1%BO, <1%CP, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548004	Elevation:	1490 m		Sample Width : 2-10 cm	Oxides :	None	35.	<0.2	16.	4.05%	0.	130.
	Orientation:	/		True Width : 2-10 cm	Host :	Hematite breccia						

Comments : Much more similar material in area.

Sample No.	Location :	7195 720 N	Type :	Select	Alteration :	sCA, wCL	Au	Ag	Co	Cu	La	U
		537 960 E		Strike Length Exp. : 10 m	Sulphides :	trBO, <1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548005	Elevation:	1500 m		Sample Width : 1.5 m	Oxides :	None	<5	<0.2	11.	2653.	0.	40.
	Orientation:	310 /		True Width : 1.5 m	Host :	Hematite breccia						

Comments : Calcite stockwork. Difficult location to access.

Sample No.	Location :	7195 580 N	Type :	Select	Alteration :	sCL, sHE	Au	Ag	Co	Cu	La	U
		538 000 E		Strike Length Exp. : 3-4 m	Sulphides :	1-2%CP, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548006	Elevation:	1455 m		Sample Width : 0.5 m	Oxides :	JA, MC, AZ	50.	<0.2	57.	1.71%	20.	40.
	Orientation:	/		True Width : 0.5 m	Host :	Hematite breccia						

Comments : Slickenside zone.

Sample No.	Location :	7195 520 N	Type :	Float	Alteration :	sCL, mSI, mHE	Au	Ag	Co	Cu	La	U
		538 080 E		Strike Length Exp. : m	Sulphides :	trBO, 3%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548007	Elevation:	1340 m		Sample Width : m	Oxides :	trMC, NE	35.	<0.2	18.	889.	80.	<10
	Orientation:	/		True Width : m	Host :	Hematite breccia						

Comments : Angular float approximately 20x20cm in size.

Sample No.	Location :	7193 340 N	Type :	Grab	Alteration :	sCB, sSI, sHE	Au	Ag	Co	Cu	La	U
		538 340 E		Strike Length Exp. : m	Sulphides :	5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548136	Elevation:	5500 ft		Sample Width : 1 m	Oxides :	None	<5	<0.2	12.	2.	80.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Taken directly above DAC 548251. Fragments of jasper.

Sample No.	Location :	7193 360 N	Type :	Grab	Alteration :	mCB, sSI, sHE	Au	Ag	Co	Cu	La	U
		538 300 E		Strike Length Exp. : m	Sulphides :	trCP, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548137	Elevation:	5450 ft		Sample Width : 50 cm	Oxides :	None	10.	<0.2	10.	55.	80.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Jasper rich, pink altered breccia.

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Sample No.	Location :	7193 430 N	Type :	Float	Alteration :	sCB, sHE	Au	Ag	Co	Cu	La	U
		538 270 E	Strike Length Exp. :	m	Sulphides :	15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548138	Elevation:	5450 ft	Sample Width :	m	Oxides :	None	<5	<0.2	10.	0.	80.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic (shale) breccia						

Comments : Talus in chute. Lots of this material here. Sample taken from three pieces of talus.

Sample No.	Location :	7193 390 N	Type :	Float	Alteration :	sCB, sCL	Au	Ag	Co	Cu	La	U
		537 760 E	Strike Length Exp. :	m	Sulphides :	1-2%CP, 3-5%PY, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548139	Elevation:	4975 ft	Sample Width :	m	Oxides :	wGE, wJA	20.	0.6	53.	2057.	10.	20.
	Orientation:	/	True Width :	m	Host :	Sediments						

Comments : Talus on contact between breccia and sediments. Beside DAC 548258 location. Grab from 4-5 talus pieces.

Sample No.	Location :	7193 960 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		537 670 E	Strike Length Exp. :	m	Sulphides :	10-20%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548140	Elevation:	4650 ft	Sample Width :	m	Oxides :	sGE	50.	0.6	457.	177.	120.	<10
	Orientation:	/	True Width :	m	Host :	Altered sediments						

Comments : Talus by main creek; a few rocks of this type here.

Sample No.	Location :	7193 980 N	Type :	Grab	Alteration :	sHE, CL, wCB	Au	Ag	Co	Cu	La	U
		537 770 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 5%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548141	Elevation:	4600 ft	Sample Width :	m	Oxides :	None	20.	<0.2	21.	524.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Subcrop 10m SW of #1 post, Mica 11-12. Good copper lichen.

Sample No.	Location :	7194 350 N	Type :	Float	Alteration :	sCB, sSI	Au	Ag	Co	Cu	La	U
		537 890 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548142	Elevation:	4500 ft	Sample Width :	m	Oxides :	sGE, mJA	50.	0.8	168.	9.	20.	10.
	Orientation:	/	True Width :	m	Host :	Sediments						

Comments : Same material as 548140. Subcrop on side of creek.

Sample No.	Location :	7194 330 N	Type :	Float	Alteration :	sCL, sSI	Au	Ag	Co	Cu	La	U
		537 870 E	Strike Length Exp. :	m	Sulphides :	3-5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548143	Elevation:	4500 ft	Sample Width :	m	Oxides :	mGE, mJA	25.	<0.2	53.	10.	10.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Subcrop on south side of camp creek.

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Sample No.	Location :	7194 300 N	Type :	Float	Alteration :	sHE	Au	Ag	Co	Cu	La	U
		537 860 E	Strike Length Exp. :	m	Sulphides :	trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548144	Elevation:	4500 ft	Sample Width :	m	Oxides :	None	<5	<0.2	12.	2.	160.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Located 2.0m from 548143. Grab from one rock.

Sample No.	Location :	7194 280 N	Type :	Float	Alteration :	HE	Au	Ag	Co	Cu	La	U
		537 830 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 50%MG & HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548145	Elevation:	4500 ft	Sample Width :	m	Oxides :	None	10.	<0.2	19.	0.	130.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Subcrop beside breccia/shale contact. 15m up creek bank from 548144.

Sample No.	Location :	7194 230 N	Type :	Float	Alteration :	sCL, sSI	Au	Ag	Co	Cu	La	U
		537 800 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 15-20%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548146	Elevation:	4525 ft	Sample Width :	m	Oxides :	sGE, mJA	20.	0.4	1257.	932.	280.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Taken in subcrop above contact. Lots of this material here. Sample from two rocks. Contact runs @ 160o up south side of creek.

Sample No.	Location :	7194 200 N	Type :	Float	Alteration :	sCL, sSI	Au	Ag	Co	Cu	La	U
		537 800 E	Strike Length Exp. :	m	Sulphides :	1%CP, 40-50%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548147	Elevation:	4525 ft	Sample Width :	m	Oxides :	sGE, sJA	20.	1.6	557.	1998.	100.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : 10m up creek from 548146 in subcrop.

Sample No.	Location :	7193 830 N	Type :	Float	Alteration :	sCB, sSI	Au	Ag	Co	Cu	La	U
		537 850 E	Strike Length Exp. :	m	Sulphides :	2-3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548148	Elevation:	4750 ft	Sample Width :	m	Oxides :	sGE, sJA	25.	<0.2	206.	31.	250.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Talus 50m below outcrop. Grab from one rock.

Sample No.	Location :	7193 820 N	Type :	Float	Alteration :	sCB, sSI	Au	Ag	Co	Cu	La	U
		537 880 E	Strike Length Exp. :	m	Sulphides :	trCP, 75-80%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548149	Elevation:	4800 ft	Sample Width :	m	Oxides :	sGE, sJA	545.	8.0	2143.	432.	90.	30.
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Grab from one rock.

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Sample No.	Location :	7193 800 N	Type :	Alteration :	sCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		537 910 E	Strike Length Exp. :	Sulphides :	<1%CP, >5%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548150	Elevation:	4825 ft	Sample Width :	Oxides :	None	50.	3.0	2078.	1831.	170.	<10
	Orientation:	/	True Width :	Host :	Breccia contact?						

Comments : Taken from 10-15m wide zone on lower end of outcrop.

Sample No.	Location :	7193 780 N	Type :	Alteration :	sCL, sHE	Au	Ag	Co	Cu	La	U
		537 940 E	Strike Length Exp. :	Sulphides :	45%MG, 45%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548151	Elevation:	4830 ft	Sample Width :	Oxides :	sGE, sJA	140.	<0.2	1593.	117.	140.	<10
	Orientation:	/	True Width :	Host :	Breccia						

Comments : 5m above 548150 in same zone. Sediment, breccia contact area.

Sample No.	Location :	7193 780 N	Type :	Alteration :	sSI, HE	Au	Ag	Co	Cu	La	U
		537 960 E	Strike Length Exp. :	Sulphides :	25%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548152	Elevation:	4875 ft	Sample Width :	Oxides :	sGE, sJA	25.	<0.2	245.	12.	60.	<10
	Orientation:	/	True Width :	Host :	Breccia						

Comments : Outcrop surface is strongly weathered.

Sample No.	Location :	7194 100 N	Type :	Alteration :	sCB, sSI, sHE	Au	Ag	Co	Cu	La	U
		538 090 E	Strike Length Exp. :	Sulphides :	10%MG, 75%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548153	Elevation:	4800 ft	Sample Width :	Oxides :	GE, JA	95.	<0.2	2937.	24.	20.	30.
	Orientation:	/	True Width :	Host :	Breccia						

Comments : Another smaller zone like 548152, approximately 4.0 metres wide.

Sample No.	Location :	7192 930 N	Type :	Alteration :	sCA, sCL, wHE	Au	Ag	Co	Cu	La	U
		538 330 E	Strike Length Exp. :	Sulphides :	1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548247	Elevation:	5400 ft	Sample Width :	Oxides :	None	<5	<0.2	14.	13.	40.	<10
	Orientation:	/	True Width :	Host :	Variable- stockwork veined black sediments, minor breccia						

Comments : Random grab of talus - mostly fine-grained siltstone, black-grey in colour.

Sample No.	Location :	7193 030 N	Type :	Alteration :	sCA, sCL, w-mHE	Au	Ag	Co	Cu	La	U
		538 350 E	Strike Length Exp. :	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548248	Elevation:	5400 ft	Sample Width :	Oxides :	None	<5	<0.2	19.	3.	30.	<10
	Orientation:	/	True Width :	Host :	Variable - stockwork veined black sediments, minor breccia						

Comments : Random talus grab - minor increase in the amount of breccia.

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Sample No.	Location :	7193 135 N	Type :	Float	Alteration :	sCA, mCL, SI?, mHE	Au	Ag	Co	Cu	La	U
		538 380 E		Strike Length Exp. : m	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548249	Elevation:	5375 ft		Sample Width : m	Oxides :	None	<5	<0.2	12.	6.	40.	<10
	Orientation:	/		True Width : m	Host :	Stockworked veined grey siltstone						

Comments : Random talus grab.

Sample No.	Location :	7193 240 N	Type :	Float	Alteration :	mCL, MS?, mQZ, sSI, sHE	Au	Ag	Co	Cu	La	U
		538 340 E		Strike Length Exp. : m	Sulphides :	4-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548250	Elevation:	5375 ft		Sample Width : m	Oxides :	None	20.	<0.2	13.	4.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Random talus grab - breccia contains 30% bright red jasper fragments. Sample located within 15 metres of No. 1 posts for Mica 17, 18.

Sample No.	Location :	7193 325 N	Type :	Float	Alteration :	sCL, mQZ, sSI, mHE	Au	Ag	Co	Cu	La	U
		538 315 E		Strike Length Exp. : m	Sulphides :	5-7%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548251	Elevation:	5375 ft		Sample Width : m	Oxides :	None	5.	<0.2	13.	3.	40.	<10
	Orientation:	/		True Width : m	Host :	Altered sediments/breccia						

Comments : Random talus grab - breccia > sediments. No sulphides or copper oxides visible.

Sample No.	Location :	7193 390 N	Type :	Float	Alteration :	sCL, mQZ, sSI, mHE, AB?	Au	Ag	Co	Cu	La	U
		538 245 E		Strike Length Exp. : m	Sulphides :	10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548252	Elevation:	5375 ft		Sample Width : m	Oxides :	None	25.	<0.2	17.	4.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Random talus grab - mostly taken from pink (jasper-bearing) heterolithic breccia.

Sample No.	Location :	7193 460 N	Type :	Grab	Alteration :	w-mCB, wCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		538 195 E		Strike Length Exp. : >25 m	Sulphides :	15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548253	Elevation:	5375 ft		Sample Width : 6 m	Oxides :	None	10.	<0.2	14.	4.	60.	<10
	Orientation:	100 / 60 N		True Width : m	Host :	Heterolithic hematite breccia						

Comments : First outcrop sample on traverse.

Sample No.	Location :	7193 495 N	Type :	Float	Alteration :	wCB, wCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		538 100 E		Strike Length Exp. : m	Sulphides :	15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548254	Elevation:	5375 ft		Sample Width : m	Oxides :	None	25.	<0.2	9.	2.	50.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Sample of talus/subcrop scree.

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Sample No.	Location :	7193 460 N	Type :	Grab	Alteration :	wCA, wCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		538 025 E		Strike Length Exp. : 15 m	Sulphides :	trPY, 15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548255	Elevation:	5375 ft		Sample Width : 5x1.0 m	Oxides :	None	15.	<0.2	19.	13.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Breccia contains jasper fragments.

Sample No.	Location :	7193 385 N	Type :	Grab	Alteration :	vsCL, wHE	Au	Ag	Co	Cu	La	U
		537 960 E		Strike Length Exp. : >15 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548256	Elevation:	5200 ft		Sample Width : 4.0 m	Oxides :	None	<5	<0.2	22.	<1	80.	<10
	Orientation:	026 / 45 SE		True Width : 3.0 m	Host :	Altered siltstone/sandstone						

Comments : May be large block of host sediments in breccia.

Sample No.	Location :	7193 355 N	Type :	Grab	Alteration :	wCA, wCB, wCL, sQZ, sSI, m-sHE	Au	Ag	Co	Cu	La	U
		537 865 E		Strike Length Exp. : >25 m	Sulphides :	trPY, 5-7%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548257	Elevation:	5100 ft		Sample Width : 5.0 m	Oxides :	None	<5	<0.2	18.	1.	50.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments :

Sample No.	Location :	7193 390 N	Type :	Grab	Alteration :	None	Au	Ag	Co	Cu	La	U
		537 760 E		Strike Length Exp. : 5.0 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548258	Elevation:	4850 ft		Sample Width : 3.0 m	Oxides :	JA	<5	<0.2	8.	27.	20.	<10
	Orientation:	130 / 80 NE		True Width : 3.0 m	Host :	Graphitic slate						

Comments :

Sample No.	Location :	7194 640 N	Type :	Grab	Alteration :	wCA, wCB, w-mCL	Au	Ag	Co	Cu	La	U
		538 025 E		Strike Length Exp. : 15 m	Sulphides :	trPY, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548259	Elevation:	1318 m		Sample Width : 5 x3.0 m	Oxides :	None	<5	<0.2	10.	3.	40.	<10
	Orientation:	070 / 30 NW		True Width : m	Host :	Interbedded siltstone/arkose						

Comments : Location of sample is at first outcrop southwest of camp in valley bottom.

Sample No.	Location :	7194 350 N	Type :		Alteration :	vwCA, sCL, sQZ, sSI	Au	Ag	Co	Cu	La	U
		537 850 E		Strike Length Exp. : 5.0 m	Sulphides :	2%CP, 3%PY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548260	Elevation:	1350 m		Sample Width : 13 m	Oxides :	JA	30.	0.4	14.	788.	100.	<10
	Orientation:	130 / 75 NE		True Width : 10 m	Host :	Grey to black phyllites/QZ-CL breccia						

Comments : Contact zone with Quartet phyllites. Chalcopyrite increases away from contact. Outcrop has vuggy corroded look with copper lichen. Internal 4m section of grab sample length not exposed.

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Sample No.	Location :	7194 340 N	Type :	Grab	Alteration :	wCA, w-mCB, sCL, sQZ, sSI	Au	Ag	Co	Cu	La	U
		537 835 E		Strike Length Exp. : 5.0 m	Sulphides :	1%CP, 3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548261	Elevation:	1350 m		Sample Width : 3.0 m	Oxides :	JA	<5	<0.2	13.	79.	60.	<10
	Orientation:	/		True Width : m	Host :	Quartz-chlorite breccia						

Comments : Sample located approximately 20m SW of 548260 on same side of creek. Similar style of alteration/mineralization as 548260.

Sample No.	Location :	7193 890 N	Type :	Float	Alteration :	sCL, mQZ, sSI	Au	Ag	Co	Cu	La	U
		537 710 E		Strike Length Exp. : m	Sulphides :	1%CP, 3%PY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548262	Elevation:	1400 m		Sample Width : m	Oxides :	JA	<5	1.2	26.	158.	30.	<10
	Orientation:	/		True Width : m	Host :	Quartz-chlorite breccia						

Comments : Grab from subcrop scree. Does not appear to be from talus, fans to the SE.

Sample No.	Location :	7193 770 N	Type :	Grab	Alteration :	wCA, vsCB, mCL, sMS	Au	Ag	Co	Cu	La	U
		537 920 E		Strike Length Exp. : >50 m	Sulphides :	3%MG, 5%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548263	Elevation:	1500 m		Sample Width : 4.0 m	Oxides :	JA	5.	<0.2	59.	11.	0.	30.
	Orientation:	/		True Width : m	Host :	Altered sediments/fault zone/breccia						

Comments : Alteration and mineralization is very variable from chip to chip. Pyrite is ubiquitous; some chalcopyrite noted in ankerite veinlet.

Sample No.	Location :	7193 690 N	Type :	Grab	Alteration :	vsCB, sMS	Au	Ag	Co	Cu	La	U
		537 870 E		Strike Length Exp. : >50 m	Sulphides :	5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548264	Elevation:	1510 m		Sample Width : 5.0 m	Oxides :	None	10.	0.8	103.	34.	0.	50.
	Orientation:	/		True Width : m	Host :	Altered sediments/breccia - fault zone						

Comments : Fault zone - presence of strong sericite and ankerite alteration. Locally, breccia clasts visible.

Sample No.	Location :	7193 610 N	Type :	Float	Alteration :	wCA, sCB, wCL, mMS, mSI	Au	Ag	Co	Cu	La	U
		537 800 E		Strike Length Exp. : m	Sulphides :	1%CP, 30-40%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548265	Elevation:	1510 m		Sample Width : m	Oxides :	GE, JA	145.	1.0	904.	1691.	160.	10
	Orientation:	/		True Width : m	Host :	Fault zone? - pyritic - breccia contact?						

Comments : Select talus sample of highly pyritic material; fairly abundant in talus. Location is adjacent (to the SW) to phyllite outcrop.

Sample No.	Location :	7193 535 N	Type :	Grab	Alteration :	wCA, vsCB, mCL, mMS, mSI	Au	Ag	Co	Cu	La	U
		537 740 E		Strike Length Exp. : m	Sulphides :	trCP, 3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548266	Elevation:	1515 m		Sample Width : 4.0 m	Oxides :	GE, JA	30.	2.4	79.	87.	30.	10.
	Orientation:	/		True Width : m	Host :	Border phase breccia						

Comments : Phyllite contact below. The presence of siderite/ankerite is the most prominent feature of this breccia; sheared surfaces as well.

Property : MICA

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Sample No.	Location :	7193 295 N	Type :	Float	Alteration :	WCB, mCL, mSI, HE	Au	Ag	Co	Cu	La	U
		537 360 E		Strike Length Exp. : m	Sulphides :	1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548447	Elevation:	4920 ft		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	11.	1.	20.	<10
	Orientation:	/		True Width : m	Host :	Breccia talus (Moraine)						

Comments : 150m north along claim line.

Sample No.	Location :	7193 480 N	Type :	Float	Alteration :	WCB, mCL, sSI, HE	Au	Ag	Co	Cu	La	U
		537 430 E		Strike Length Exp. : m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548448	Elevation:	1480 m		Sample Width : 2x2 m	Oxides :	None	15.	<0.2	12.	2.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia (Moraine)						

Comments : No sulphides noted. 120m from No. 2 post for Mica 7, 8.

Sample No.	Location :	7193 580 N	Type :	Float	Alteration :	WCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		537 500 E		Strike Length Exp. : m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548449	Elevation:	1480 m		Sample Width : 2x2 m	Oxides :	None	20.	<0.2	17.	<1	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : 20m south of No. 1 post, Mica 9, 10. Boulder field (ablation till?) Maroon and pink heterolithic breccia.

Sample No.	Location :	7193 650 N	Type :	Float	Alteration :	WCB, mCL, mSI	Au	Ag	Co	Cu	La	U
		537 430 E		Strike Length Exp. : m	Sulphides :	1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548450	Elevation:	1455 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	13.	2.	90.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia moraine boulders						

Comments : 100m west of No. 1 post, Mica 9, 10.

Sample No.	Location :	7194 180 N	Type :	Float	Alteration :	WCB, mCL, sSI, HE	Au	Ag	Co	Cu	La	U
		537 500 E		Strike Length Exp. : m	Sulphides :	5-7%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548451	Elevation:	1410 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	20.	<1	50.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : 520m from creek draining lake. Heterolithic breccia talus slope.

Sample No.	Location :	7194 270 N	Type :	Float	Alteration :	WCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		537 540 E		Strike Length Exp. : m	Sulphides :	1/2%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548452	Elevation:	1410 m		Sample Width : 2x2 m	Oxides :	MC	20.	<0.2	25.	540.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : 100m north of 548551.

Property : MICA

NTS : 1060/16

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Sample No.	Location :	7194 360 N	Type :	Float	Alteration :	wCB, mCL, mSI, HE	Au	Ag	Co	Cu	La	U
		537 580 E		Strike Length Exp. : m	Sulphides :	1/2%CP, 1/2%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548453	Elevation:	1410 m		Sample Width : m	Oxides :	None	35.	<0.2	9.	49.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : 100m north of 538452.

Sample No.	Location :	7194 430 N	Type :	Grab	Alteration :	CL, SI, HE	Au	Ag	Co	Cu	La	U
		537 610 E		Strike Length Exp. : 20 m	Sulphides :	1/2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548454	Elevation:	1400 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	12.	22.	60.	<10
	Orientation:	/		True Width : m	Host :	Breccia						

Comments : Very coarse-grained pyrite, cubes to 1/2 cm. 80m north of 548453.

Sample No.	Location :	7194 500 N	Type :	Select	Alteration :	mCA, mCB, sSI	Au	Ag	Co	Cu	La	U
		537 650 E		Strike Length Exp. : m	Sulphides :	CP, PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548455	Elevation:	1400 m		Sample Width : 5 m	Oxides :	AZ, MC	45.	<0.2	454.	926.	10.	30.
	Orientation:	/		True Width : m	Host :	Siltstone (Quartet?)						

Comments : Very coarse-grained pyrite in broad zone. 60m north of 548454. Light green siltstone.

Sample No.	Location :	7194 600 N	Type :	Float	Alteration :	wCB, wCL, sSI, HE, KF?	Au	Ag	Co	Cu	La	U
		537 700 E		Strike Length Exp. : m	Sulphides :	1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548456	Elevation:	1415 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	17.	13.	340.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Breccia fragments approximately 1cm. 100m from 548455.

Sample No.	Location :	7194 700 N	Type :	Float	Alteration :	mCB, mCL, mSI	Au	Ag	Co	Cu	La	U
		537 720 E		Strike Length Exp. : m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548457	Elevation:	1410 m		Sample Width : m	Oxides :	None	<5	<0.2	15.	14.	180.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia and maroon siltstone						

Comments : 100m from 548456.

Sample No.	Location :	7194 930 N	Type :	Float	Alteration :	mCB, sCL, sSI, HE	Au	Ag	Co	Cu	La	U
		537 950 E		Strike Length Exp. : m	Sulphides :	trCP, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548458	Elevation:	1330 m		Sample Width : 2x2 m	Oxides :	None	5.	<0.2	15.	4.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments :

Property : MICA

NTS : 1060/16

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Sample No.	Location :	7195 055 N	Type :	Float	Alteration :	wCA, wCB, sCL, sSI	Au	Ag	Co	Cu	La	U
		536 630 E		Strike Length Exp. : m	Sulphides :	trPY, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548498	Elevation:	1590 m		Sample Width : 2x2 m	Oxides :	None	<5	0.4	19.	113.	40.	<10
	Orientation:	/		True Width : m	Host :	Breccia						

Comments : At contact with Quartet Group sediments. Pink-orange siliceous patches in chlorite matrix, some carbonate veins.

Sample No.	Location :	7195 120 N	Type :	Float	Alteration :	wCA, wCS, mCL, sSI	Au	Ag	Co	Cu	La	U
		536 700 E		Strike Length Exp. : m	Sulphides :	trPY, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548499	Elevation:	1590 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	3.	69.	100.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : 10m east northeast of 548498.

Sample No.	Location :	7195 205 N	Type :	Float	Alteration :	mCA, mCB, wCL, sSI	Au	Ag	Co	Cu	La	U
		536 740 E		Strike Length Exp. : m	Sulphides :	trPY, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548500	Elevation:	1560 m		Sample Width : m	Oxides :	None	<5	<0.2	8.	4.	90.	<10
	Orientation:	/		True Width : m	Host :	Breccia						

Comments : Argillaceous fragments with carbonate veins and siliceous orange-pink rock with dark fine-grained siliceous matrix.
100m from 548499.

Property : HAIL

NTS : 1060/16

Date : 12/18/92

Sample No.	Location :	7198 000 N	Type :	Float	Alteration :	CL, SI	Au	Ag	Co	Cu	La	U
		538 550 E	Strike Length Exp. :	m	Sulphides :	5%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
19936	Elevation:	1580 m	Sample Width :	m	Oxides :	HE, trMC	135.	0.2	8.	4780.	430.	40.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Hail 2 claim. Location approximately 350' southwest of claim post common to claims 1-4. Malachite stain on several talus blocks in this area.

Sample No.	Location :	7197 975 N	Type :	Float	Alteration :		Au	Ag	Co	Cu	La	U
		538 525 E	Strike Length Exp. :	m	Sulphides :	5%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
19937	Elevation:	1590 m	Sample Width :	m	Oxides :	HE, MC	20.	<0.2	4.	2.17%	20.	110.
	Orientation:	/	True Width :	m	Host :	Banded jasperoidal heterolithic breccia						

Comments : Hail 2 claim. Chalcopyrite as coarse, disseminated, euhedral crystals; 5-10% specular hematite.

Sample No.	Location :	7197 650 N	Type :	Float	Alteration :		Au	Ag	Co	Cu	La	U
		538 750 E	Strike Length Exp. :	m	Sulphides :	3% CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
19938	Elevation:	1665 m	Sample Width :	m	Oxides :	HE, WMC	50.	<0.2	13.	1.11%	130.	20.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Hail 4 claim. Very coarse euhedral chalcopyrite and chalcopyrite stringers; 1-5% fine grained to coarse grained specular hematite; several malachite stained talus blocks in area, near dolomite contact.

Sample No.	Location :	7197 700 N	Type :	Select	Alteration :	MS	Au	Ag	Co	Cu	La	U
		538 950 E	Strike Length Exp. :	m	Sulphides :	<5%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
19939	Elevation:	1625 m	Sample Width :	30 cm	Oxides :	HE, WMC	405.	<0.2	43.	4190.	<10	310.
	Orientation:	/	True Width :	50+ cm	Host :	Heterolithic breccia						

Comments : Hail 6 claim. Very coarse, euhedral chalcopyrite disseminated, and 5-10% seams and patches of specular hematite; breccia fragments poorly visible; may be due to shearing and fine grained sericite alteration.

Sample No.	Location :	7197 750 N	Type :	Float	Alteration :	CL	Au	Ag	Co	Cu	La	U
		538 975 E	Strike Length Exp. :	m	Sulphides :		(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
19940	Elevation:	1570 m	Sample Width :	m	Oxides :	tr-1% f. grained MG, diss	5.	<0.2	20.	112.	10.	<10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Hail 6 claim. Jasper-chlorite rich phase of breccia with few lithic fragments; minor fine grained chalcopyrite seen in some talus blocks in area, but not noted in sample material.

Sample No.	Location :	7197 970 N	Type :	Chip	Alteration :	wCA, wCL, wMS, mSI	Au	Ag	Co	Cu	La	U
		358 480 E	Strike Length Exp. :	>30 m	Sulphides :	trBO, 1-2%CP, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547090	Elevation:	1665 m	Sample Width :	9 m	Oxides :	MC	5.	<0.2	5.	1278.	50.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : 9m chip sample across copper-mineralized breccia. Chalcopyrite and bornite (?) is either disseminated throughout (but generally found in the matrix) or occurs as blebs along fractures.

Property : HAIL

NTS : 106D/16

Date : 12/18/92

Sample No. 547091 Location : 7197 970 N 358 480 E Type : Float Strike Length Exp. : m Elevation: 1670 m Sample Width : m Orientation: / True Width : m Alteration : wCA, wCL, sSI Sulphides : 5-10%CP, trPY, 5-10%HS Oxides : sMC, wHE Host : Heterolithic breccia

Au (ppb) 20. Ag (ppm) <0.2 Co (ppm) 8. Cu (ppm) 1.57% La (ppm) 10. U (ppm) <10

Comments : Strong copper-mineralized breccia talus found over a one metre area. Frost heaved.

Sample No. 547732 Location : 7197 870 N 538 230 E Type : Float Strike Length Exp. : m Elevation: 1480 m Sample Width : m Orientation: / True Width : m Alteration : CL, MS, SI, AB, HE Sulphides : trPY, 3%HS Oxides : Host : Heterolithic breccia

Au (ppb) <5 Ag (ppm) <0.2 Co (ppm) 9. Cu (ppm) 24. La (ppm) 110. U (ppm) <10

Comments : Lithogeochem sample, 100m north of 547731. Minor chalcopyrite/malachite in area.

Sample No. 547733 Location : 7197 960 N 538 170 E Type : Float Strike Length Exp. : m Elevation: 1450 m Sample Width : m Orientation: / True Width : m Alteration : BI?, CB Sulphides : trPY, 1-5%HS Oxides : None Host : Homolithic breccia

Au (ppb) <5 Ag (ppm) <0.2 Co (ppm) 10. Cu (ppm) 3. La (ppm) 30. U (ppm) <10

Comments : Lithogeochem sample, now into quartz breccia plus pseudo breccia. 100m north of 547732.

Sample No. 547734 Location : 7198 050 N 538 130 E Type : Grab Strike Length Exp. : m Elevation: 1428 m Sample Width : m Orientation: / True Width : m Alteration : CL, MS, SI, AB, HE Sulphides : 2%HS Oxides : None Host : Heterolithic hematite breccia

Au (ppb) <5 Ag (ppm) <0.2 Co (ppm) 14. Cu (ppm) 152. La (ppm) 40. U (ppm) <10

Comments : Lithogeochem sample, east side of valley above forks approximately 100m north of 547733. Note 2m wide carbonate zone adjacent with 1%CP.

Sample No. 547927 Location : 7197 990 N 539 070 E Type : Float Strike Length Exp. : m Elevation: 1465 m Sample Width : m Orientation: / True Width : m Alteration : CA Sulphides : 2%CP Oxides : MC Host : Breccia

Au (ppb) 15. Ag (ppm) <0.2 Co (ppm) 17. Cu (ppm) 1.57% La (ppm) 60. U (ppm) <10

Comments : Abundant copper mineralization in talus around 1450m.

Sample No. 547928 Location : 7197 950 N 538 980 E Type : Float Strike Length Exp. : m Elevation: 1465 m Sample Width : 1 m Orientation: / True Width : m Alteration : CA, QZ Sulphides : 2%CP, PY, 10%HS Oxides : MC Host : Heterolithic breccia

Au (ppb) <5 Ag (ppm) <0.2 Co (ppm) 9. Cu (ppm) 2.59% La (ppm) 10. U (ppm) 10.

Comments : Sampled material very abundant on edge of talus.

Sample No.	Location :	7197 910 N	Type :	Float	Alteration :	sCL, KF, HE, CB	Au	Ag	Co	Cu	La	U
		538 835 E		Strike Length Exp. : m	Sulphides :	5%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547929	Elevation:	1480 m		Sample Width : 50 cm	Oxides :	MC	35.	<0.2	20.	6633.	180.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Abundant on talus below outcrop.

Sample No.	Location :	7197 935 N	Type :	Float	Alteration :	KF, CB	Au	Ag	Co	Cu	La	U
		538 810 E		Strike Length Exp. : m	Sulphides :	10%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547930	Elevation:	1475 m		Sample Width : 30 cm	Oxides :	MC	215.	2.0	86.	2.98%	0.	30.
	Orientation:	/		True Width : 30 cm	Host :	Heterolithic breccia						

Comments : Subcrop immediately below outcrop.

Sample No.	Location :	7198 000 N	Type :	Float	Alteration :	None	Au	Ag	Co	Cu	La	U
		538 670 E		Strike Length Exp. : m	Sulphides :	3%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547931	Elevation:	1500 m		Sample Width : 1 m	Oxides :	MC	65.	<0.2	8.	7500.	2220.	<10
	Orientation:	/		True Width : m	Host :	Altered bleached sediment						

Comments : Abundant on slope, occasional quartz vein (5cm) present.

Sample No.	Location :	7198 005 N	Type :	Float	Alteration :	sCL	Au	Ag	Co	Cu	La	U
		538 620 E		Strike Length Exp. : m	Sulphides :	1%CP, 2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547932	Elevation:	1520 m		Sample Width : 50 cm	Oxides :	MC, JA	305.	<0.2	107.	3809.	240.	<10
	Orientation:	/		True Width : m	Host :	Breccia (hematite)						

Comments : This material is sparse in talus.

Sample No.	Location :	7198 045 N	Type :	Float	Alteration :	HE	Au	Ag	Co	Cu	La	U
		538 410 E		Strike Length Exp. : m	Sulphides :	2%CP, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547933	Elevation:	1550 m		Sample Width : 40 cm	Oxides :	MC, AZ	55.	0.6	4.	3991.	240.	<10
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : Directly below outcrop at about 1580m.

Sample No.	Location :	7198 040 N	Type :	Float	Alteration :	HE	Au	Ag	Co	Cu	La	U
		538 275 E		Strike Length Exp. : m	Sulphides :	2%CP, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547934	Elevation:	1505 m		Sample Width : 20 cm	Oxides :	MC	<5	0.2	5.	4862.	20.	10.
	Orientation:	/		True Width : m	Host :	Homolithic breccia						

Comments : Copper lichen on float.

Property : HAIL

NTS : 1060/16

Date : 12/18/92

Sample No.	Location :	7197 975 N	Type :	Float	Alteration :	HE	Au	Ag	Co	Cu	La	U
		538 270 E		Strike Length Exp. : m	Sulphides :	5%CP, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547935	Elevation:	1500 m		Sample Width : 60 cm	Oxides :	MC	10.	<0.2	8.	7953.	20.	10.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Widespread in talus.

Sample No.	Location :	7198 270 N	Type :	Float	Alteration :	wCA, mCL, m-sSI	Au	Ag	Co	Cu	La	U
		538 170 E		Strike Length Exp. : m	Sulphides :	trPY, 3-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548363	Elevation:	1365 m		Sample Width : m	Oxides :	None	<5	<0.2	12.	21.	40.	10.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Breccia contains abundant clasts that are highly siliceous and red in colour - jasper? Matrix in some pieces also has a reddish appearance. Specular hematite is generally found in matrix. Breccia is matrix supported.

Sample No.	Location :	7198 170 N	Type :	Grab	Alteration :	wCB, mCL, m-sSI	Au	Ag	Co	Cu	La	U
		538 210 E		Strike Length Exp. : >30 m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548364	Elevation:	1430 m		Sample Width : 5.0 m	Oxides :	MC, 1-3%HS	20.	0.4	29.	53.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Breccia is matrix supported. Clasts are generally small (<3cm in size) and highly siliceous. Matrix is chlorite/quartz altered. Calcite stringers with specular hematite blebs found in outcrop, but are discontinuous and widely spaced.

Sample No.	Location :	7198 070 N	Type :	Grab	Alteration :	wCA, mCL, w-mSI	Au	Ag	Co	Cu	La	U
		538 240 E		Strike Length Exp. : 30 m	Sulphides :	1%CP, 10-25%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548365	Elevation:	1495 m		Sample Width : 5 m	Oxides :	MC	<5	<0.2	24.	229.	20.	20.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Matrix supported heterolithic breccia. Chlorite alteration is not as prevalent. Chalcopyrite is disseminated in clasts or blebs in matrix within specular hematite-rich area of the breccia.

Sample No.	Location :	7198 080 N	Type :	Float	Alteration :	mCB, mCL, mQZ, sSI	Au	Ag	Co	Cu	La	U
		538 330 E		Strike Length Exp. : m	Sulphides :	5%CP, <1%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548366	Elevation:	1490 m		Sample Width : m	Oxides :	MC	15.	0.8	20.	1.03%	20.	20.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Select grab of chalcopyrite-rich float. Calcite occurs as blebs (up to 3cm in diameter; 5mm area), stringers or fine disseminations. Rock also contains calcite and quartz veins and stringers. Blebs of specular hematite found along the veins.

Sample No.	Location :	7198 020 N	Type :	Grab	Alteration :	BI?, wCA, wSI	Au	Ag	Co	Cu	La	U
		538 295 E		Strike Length Exp. : 15 m	Sulphides :	trCP, trPY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548367	Elevation:	1560 m		Sample Width : 5 m	Oxides :	MC	<5	0.2	7.	102.	30.	<10
	Orientation:	005 / 20 E		True Width : 2 m	Host :	Hornfelsed sedimentary rock						

Comments : Either large boulder or outcrop on the edge of the breccia. Chalcopyrite is sporadically disseminated throughout. Specular hematite found along fractures.

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Sample No.	Location :	7197 975 N	Type :	Grab	Alteration :	sBI, mCA, mCL, mQZ	Au	Ag	Co	Cu	La	U
		538 370 E		Strike Length Exp. : >20 m	Sulphides :	trCP, trPY, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548368	Elevation:	1605 m		Sample Width : 5 m	Oxides :	None	<5	0.6	7.	273.	40.	<10
	Orientation:	/		True Width : m	Host :	Crackle breccia of sedimentary rocks						

Comments : Highly fractured, brecciated sediment - homolithic breccia. Chalcopyrite found in quartz/calcite vein.

Sample No.	Location :	7197 945 N	Type :	Float	Alteration :	wCA, wCL, mSI	Au	Ag	Co	Cu	La	U
		538 450 E		Strike Length Exp. : m	Sulphides :	10-25%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548369	Elevation:	1652 m		Sample Width : m	Oxides :	None						
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Grab of float along ridge line. Breccia is matrix supported and contains angular red clasts. Matrix is specular hematite-rich.

Sample No.	Location :	7198 010 N	Type :	Grab	Alteration :	wCA, mCL, mQZ	Au	Ag	Co	Cu	La	U
		538 480 E		Strike Length Exp. : >30 m	Sulphides :	<1%CP, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548370	Elevation:	1650 m		Sample Width : 5 m	Oxides :	AZ, GE, MC	10.	<0.2	13.	232.	40.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Chalcopyrite occurs either as blebs in the matrix or is finely disseminated in both clasts and matrix. Copper mineralization is sporadic throughout.

Sample No.	Location :	7198 075 N	Type :	Float	Alteration :	wCA, wCL, mQZ	Au	Ag	Co	Cu	La	U
		538 510 E		Strike Length Exp. : m	Sulphides :	trCP, 3-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548371	Elevation:	1610 m		Sample Width : m	Oxides :	None	<5	<0.2	6.	48.	20.	10.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Talus. Disseminated chalcopyrite found in the matrix. Specular hematite is highly variable.

Sample No.	Location :	7198 135 N	Type :	Grab	Alteration :	wCA, mCL, mQZ	Au	Ag	Co	Cu	La	U
		538 560 E		Strike Length Exp. : 10 m	Sulphides :	<1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548372	Elevation:	1565 m		Sample Width : 2 m	Oxides :	None	<5	<0.2	20.	2.	40.	<10
	Orientation:	130 / 18 SW		True Width : 1.0 m	Host :	Thinly bedded slates						

Comments : Grab on edge of breccia complex. Narrow (1cm wide) quartz veins crosscut the outcrop and contain specular hematite.

Sample No.	Location :	7198 090 N	Type :	Float	Alteration :	wCA, w-mCL, mSI	Au	Ag	Co	Cu	La	U
		538 630 E		Strike Length Exp. : m	Sulphides :	<1%CP, trPY, 3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548373	Elevation:	1520 m		Sample Width : m	Oxides :	MC	<5	0.4	11.	2642.	10.	10.
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Grab from talus slope. Chalcopyrite occurs as fine to coarse-grained, blebs and disseminations. Approximately 1% of the talus is malachite stained.

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Sample No.	Location :	7198 010 N	Type :	Float	Alteration :	wCA, wCL, mQZ	Au	Ag	Co	Cu	La	U
		538 690 E	Strike Length Exp. :	m	Sulphides :	trPY, 10-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548374	Elevation:	1498 m	Sample Width :	m	Oxides :	None	<5	<0.2	28.	28.	20.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab of breccia talus. Very quartz-rich matrix.

Sample No.	Location :	7197 980 N	Type :	Float	Alteration :	wCA, wCL, m-sSI	Au	Ag	Co	Cu	La	U
		538 790 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548375	Elevation:	1470 m	Sample Width :	m	Oxides :	MC	<5	0.2	29.	196.	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab from talus. May contain up to 5% chalcopyrite as large blebs and 30%HS in clasts and matrix.

Sample No.	Location :	7197 975 N	Type :	Float	Alteration :	wCA, wCB, wCL, wQZ, mSI	Au	Ag	Co	Cu	La	U
		538 885 E	Strike Length Exp. :	m	Sulphides :	CP, trPY, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548376	Elevation:	1450 m	Sample Width :	m	Oxides :	MC	<5	<0.2	9.	1171.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab from talus; including a few pieces with minor fine-grained, disseminated chalcopyrite +/- malachite (representative of talus overall).

Sample No.	Location :	7197 975 N	Type :	Float	Alteration :	mCL, wQZ, sSI	Au	Ag	Co	Cu	La	U
		538 885 E	Strike Length Exp. :	m	Sulphides :	3-10%CP, 20-30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548377	Elevation:	1450 m	Sample Width :	m	Oxides :	GE, MC	50.	0.2	15.	1.48%	70.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Select sample of chalcopyrite mineralized breccia in talus. Copper mineralized talus accounts for approximately 3-5% of the talus. Clasts within the breccia are highly siliceous.

Sample No.	Location :	7198 000 N	Type :	Float	Alteration :	wCL, sSI, mAK	Au	Ag	Co	Cu	La	U
		538 990 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548378	Elevation:	1440 m	Sample Width :	m	Oxides :	None	<5	0.2	11.	731.	20.	10.
	Orientation:	/	True Width :	m	Host :	Breccia (homolithic and heterolithic)						

Comments : Talus comprised of 50% homolithic (sedimentary fragments) and 50% heterolithic breccia. Large, reddish blocks of talus are highly siliceous (contain jasper & up to 1% disseminated chalcopyrite). Granitic clasts also seen in these pieces of talus.

Sample No.	Location :	7198 025 N	Type :	Float	Alteration :	wCB, w-mMS, w-sSI	Au	Ag	Co	Cu	La	U
		539 085 E	Strike Length Exp. :	m	Sulphides :	trPY, 2-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548379	Elevation:	1445 m	Sample Width :	m	Oxides :	None	<5	<0.2	19.	53.	10.	20.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab of breccia talus. Sericite alteration prevalent in matrix of some pieces.

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Sample No.	Location :	7198 070 N	Type :	Float	Alteration :	wCA, w-mCL, mMS, mSI	Au	Ag	Co	Cu	La	U
		539 170 E	Strike Length Exp. :	m	Sulphides :	3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548380	Elevation:	1455 m	Sample Width :	m	Oxides :	trMC	<5	<0.2	12.	61.	60.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Random grab of breccia talus.

Sample No.	Location :	7197 880 N	Type :	Grab	Alteration :	wCA, w-mCL, wMS, mSI	Au	Ag	Co	Cu	La	U
		539 225 E	Strike Length Exp. :	>50 m	Sulphides :	<1%CP, 1%PY, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548381	Elevation:	1602 m	Sample Width :	5 m	Oxides :	None	<5	0.4	33.	10.	10.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Pyrite and chalcopyrite are disseminated throughout. Clasts are siliceous with specular hematite rimming some of the clasts.

Sample No.	Location :	7197 850 N	Type :	Float	Alteration :	wCA, w-mCL, wMS, mSI	Au	Ag	Co	Cu	La	U
		539 310 E	Strike Length Exp. :	m	Sulphides :	trPY, 3-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548382	Elevation:	1565 m	Sample Width :	m	Oxides :	None	<5	<0.2	18.	8.	0.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Random grab of breccia talus. Larger concentrations of specular hematite are found with sericite alteration.

Sample No.	Location :	7197 800 N	Type :	Float	Alteration :	w-mCA, w-mCL, w-mMS, wSI	Au	Ag	Co	Cu	La	U
		539 390 E	Strike Length Exp. :	m	Sulphides :	3%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548383	Elevation:	1535 m	Sample Width :	m	Oxides :	trHE	5.	<0.2	57.	6.	0.	20.
	Orientation:	/	True Width :	m	Host :	Homolithic breccia?						

Comments : Breccia contains mainly sedimentary fragments. Matrix is mainly calcite (ankerite) and chlorite altered and contains no hematite. Pyrite is finely disseminated throughout.

Sample No.	Location :	7197 775 N	Type :	Float	Alteration :	mCA, mCL, QZ, sSI	Au	Ag	Co	Cu	La	U
		539 480 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548384	Elevation:	1475 m	Sample Width :	m	Oxides :	None	5.	0.2	36.	6.	0.	10.
	Orientation:	/	True Width :	m	Host :	Chlorite altered breccia/sedimentary rock						

Comments : Grab of talus containing both breccia and sedimentary fragments. Pyrite is finely disseminated throughout the matrix of the breccia.

Sample No.	Location :	7197 700 N	Type :	Grab	Alteration :	sCA, wCL	Au	Ag	Co	Cu	La	U
		539 610 E	Strike Length Exp. :	>20 m	Sulphides :	<1%PY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548385	Elevation:	1385 m	Sample Width :	2.0 m	Oxides :	None	5.	0.2	6.	9.	40.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Homolithic breccia outcrop consists of hornfelsed sedimentary clasts in a calcite>>chlorite matrix. Pyrite and specular hematite are disseminated throughout the matrix.

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Sample No.	Location :	7197 730 N	Type :	Float	Alteration :	wCA, wMS, sSI	Au	Ag	Co	Cu	La	U
		539 580 E	Strike Length Exp. :	m	Sulphides :	1%CP, 15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548386	Elevation:	1400 m	Sample Width :	m	Oxides :	<1%MC	10.	<0.2	24.	957.	20.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab from a large (approx. 1x1.2m) block of heterolithic talus. Matrix is highly silicious and contains disseminated and blebs of chalcopyrite and specular hematite. Only a few other pieces of copper-mineralized float nearby.

Sample No.	Location :	7197 690 N	Type :	Grab	Alteration :	sCA, sCL, wQZ	Au	Ag	Co	Cu	La	U
		539 820 E	Strike Length Exp. :	70 m	Sulphides :	4%CP, trPY, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548387	Elevation:	1238 m	Sample Width :	2.0 m	Oxides :	None	<5	<0.2	16.	22.	10.	10.
	Orientation:	/	True Width :	m	Host :	Homolithic, clast-supported breccia						

Comments : Breccia consists generally of fine-grained sedimentary fragments which are very angular - indicating little movement or grinding. Matrix consists of calcite>chlorite with disseminated chalcopyrite and specular hematite. Spec.hem also found as stringers.

Sample No.	Location :	7197 600 N	Type :	Float	Alteration :	sCA, wCL	Au	Ag	Co	Cu	La	U
		539 870 E	Strike Length Exp. :	m	Sulphides :	trCP, <1%PY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548388	Elevation:	1215 m	Sample Width :	m	Oxides :	None	<5	<0.2	14.	7.	20.	<10
	Orientation:	/	True Width :	m	Host :	Clast supported, homolithic breccia						

Comments : Grab of homolithic breccia. Matrix consists mainly of calcite>>chlorite with disseminated specular hematite>>pyrite>chalcopyrite.

Sample No.	Location :	7197 550 N	Type :	Float	Alteration :	sCA, wCL, wMS	Au	Ag	Co	Cu	La	U
		539 790 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548389	Elevation:	1220 m	Sample Width :	m	Oxides :	GE	10.	<0.2	12.	10.	10.	<10
	Orientation:	/	True Width :	m	Host :	Clast-supported, homolithic breccia						

Comments : Grab of talus. Matrix is strongly calcite>>chlorite - sericite altered and contains disseminated specular hematite>>chalcopyrite and pyrite.

Sample No.	Location :	7197 455 N	Type :	Grab	Alteration :	w-mCA, wCL	Au	Ag	Co	Cu	La	U
		539 790 E	Strike Length Exp. :	m	Sulphides :	trPY, trHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548390	Elevation:	1222 m	Sample Width :	2.0 m	Oxides :	MN	5.	<0.2	11.	2.	60.	<10
	Orientation:	/	True Width :	m	Host :	Clast supported, homolithic breccia?						

Comments : Random grab from outcrop. Outcrop is more shattered than brecciated. Matrix consists of calcite>chlorite.

Sample No.	Location :	7197 350 N	Type :	Grab	Alteration :	wCA, wCL	Au	Ag	Co	Cu	La	U
		539 780 E	Strike Length Exp. :	2.0 m	Sulphides :	trHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548391	Elevation:	1220 m	Sample Width :	1.3 m	Oxides :	MN	<5	<0.2	19.	1.	20.	<10
	Orientation:	/	True Width :	1.0 m	Host :	Fine-grained, bedded sedimentary rock						

Comments : Grab from fractured outcrop of bedded sediments. Calcite>chlorite in the fractures.

Sample No.	Location :	7197 385 N	Type :	Float	Alteration :	WCA, mSI	Au	Ag	Co	Cu	La	U
		539 410 E	Strike Length Exp. :	m	Sulphides :	trCP, 3%PY, 10-30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548392	Elevation:	1375 m	Sample Width :	m	Oxides :	GE, MC	10.	<0.2	43.	110.	20.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab of breccia talus. Matrix is highly siliceous and contains abundant specular hematite. Pyrite is disseminated throughout as fine crystals while chalcopyrite was found along a fracture.

Sample No.	Location :	7197 480 N	Type :	Grab	Alteration :	CA	Au	Ag	Co	Cu	La	U
		539 445 E	Strike Length Exp. :	10 m	Sulphides :	trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548393	Elevation:	1410 m	Sample Width :	1.5 m	Oxides :	None	<5	<0.2	16.	3.	0.	100.
	Orientation:	025 / 17 W	True Width :	0.8 m	Host :	Bluff weathering dolomite						

Comments : Grab from outcrop of fractured dolomite crosscut with calcite veining (up to 2cm). Chalcopyrite was found in the calcite veining.

Sample No.	Location :	7197 545 N	Type :	Float	Alteration :	WCA, WCL, mSI	Au	Ag	Co	Cu	La	U
		539 500 E	Strike Length Exp. :	m	Sulphides :	5-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548394	Elevation:	1372 m	Sample Width :	m	Oxides :	MC	<5	<0.2	10.	7.	20.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grab of breccia talus. Specular hematite content varies with intensity of silica in matrix.

Sample No.	Location :	7197 600 N	Type :	Grab	Alteration :	WCA, WCL	Au	Ag	Co	Cu	La	U
		539 600 E	Strike Length Exp. :	5.0 m	Sulphides :	3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548395	Elevation:	1358 m	Sample Width :	2.3 m	Oxides :	None	40.	<0.2	13.	4.	20.	<10
	Orientation:	/	True Width :	m	Host :	Fractured, fine-grained sediments						

Comments : Outcrop is fractured and specular hematite is found disseminated within fractures with calcite and chlorite.

Sample No.	Location :	7197 675 N	Type :	Grab	Alteration :	WCA, WCL, mQZ, mSI	Au	Ag	Co	Cu	La	U
		539 620 E	Strike Length Exp. :	>30 m	Sulphides :	3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548396	Elevation:	1368 m	Sample Width :	5.0 m	Oxides :	None	10.	<0.2	16.	10.	40.	<10
	Orientation:	/	True Width :	m	Host :	Breccia (homolithic?)						

Comments : Grab from breccia outcrop - appears homolithic? Matrix contains more silica alteration than calcite or chlorite.

Sample No.	Location :	7197 780 N	Type :	Grab	Alteration :	WCA, WCL, mSI	Au	Ag	Co	Cu	La	U
		539 625 E	Strike Length Exp. :	15 m	Sulphides :	trCP, <1%PY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548397	Elevation:	1365 m	Sample Width :	3.0 m	Oxides :	MC	30.	<0.2	56.	619.	190.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic/heterolithic breccia						

Comments : Grab from around gradational contact between a homolithic and heterolithic breccia. Copper mineralization only found in one spot on the outcrop.

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Sample No.	Location :	7197 865 N	Type :	Grab
		539 690 E	Strike Length Exp. :	>15 m
548398	Elevation:	1367 m	Sample Width :	2.0 m
	Orientation:	/	True Width :	m
Comments : Grab from breccia outcrop - near contact with black argillites.				

Alteration : WCA, WMS, MSI
Sulphides : 4%PY, 2%HS
Oxides : None
Host : Heterolithic breccia

Au	Ag	Co	Cu	La	U
(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
<5	<0.2	20.	21.	50.	<10

APPENDIX E

CERTIFICATES OF ANALYSIS



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.

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

Gold

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

Chemex Code: 100

A 10g 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



To: PAMICON DEVELOPMENTS LIMITED

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Account : BM

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Thai & Ma



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

To: PAMICON DEVELOPMENTS LIMITED

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD
Comments: ATTN: MIKE STAMMERS

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CERTIFICATE OF ANALYSIS

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Chemex Labs Ltd.

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

PAULSON DEVELOPMENT LIMITED

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project: FAIRCHILD LAKE HAIL
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

Page Number: 1
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	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
547090	5	<0.2	6.40	750	<0.5	<2	2.21	<0.5	5	118	1278	6.91	6.41	1.19
547091	20	<0.2	7.33	280	0.5	<20	0.56	<0.5	8	184	>10000	5.29	4.23	1.35
547732	<5	<0.2	6.68	780	<0.5	4	2.67	0.5	9	82	24	6.61	7.20	1.28
547733	<5	<0.2	6.21	600	<0.5	<2	3.74	0.5	10	66	3	6.21	6.29	2.01
547734	<5	<0.2	6.93	620	<0.5	2	1.54	<0.5	14	77	152	6.65	6.49	2.73
547927	15	<0.2	3.28	390	<0.5	<20	5.25	<0.5	17	96	>10000	4.80	1.90	2.87
547928	<5	<0.2	6.54	270	<0.5	<20	0.70	<0.5	9	96	>10000	11.77	4.78	2.61
547929	35	<0.2	7.08	1150	<0.5	18	2.28	<0.5	20	63	6633	7.06	6.65	2.56
547930	215	2.0	6.21	300	<0.5	<20	4.80	<0.5	86	101	>10000	6.66	6.19	2.93
547931	65	<0.2	8.50	80	<0.5	4	0.55	0.5	8	110	7500	1.40	0.45	0.40
547932	305	<0.2	5.36	390	<0.5	4	0.29	<0.5	107	164	3809	5.18	2.56	1.07
547933	55	0.6	7.72	390	<0.5	6	0.12	0.5	4	117	3991	9.57	3.79	0.51
547934	<5	0.2	6.86	1200	<0.5	8	2.11	<0.5	5	81	4882	7.32	6.01	1.46
547935	10	<0.2	7.37	680	<0.5	12	2.01	<0.5	8	85	7953	7.91	7.92	0.85
548363	<5	<0.2	7.63	500	<0.5	<2	1.96	<0.5	12	98	21	3.60	4.99	1.19
548364	20	0.4	7.00	800	<0.5	8	3.17	0.5	29	101	53	6.02	5.74	2.13
548365	<5	<0.2	5.55	530	<0.5	12	4.95	0.5	24	83	229	6.82	4.69	2.70
548366	15	0.8	6.05	500	<0.5	<20	3.41	0.5	20	76	>10000	8.67	6.32	1.88
548367	<5	0.2	7.89	660	<0.5	2	2.78	<0.5	7	81	102	5.46	5.68	1.44
548368	<5	0.6	6.51	550	<0.5	4	3.42	<0.5	7	80	273	6.04	5.40	1.90
548369	<5	<0.2	7.25	1020	<0.5	4	0.86	<0.5	22	117	37	6.11	8.13	0.95
548370	10	<0.2	7.73	710	<0.5	<2	1.23	0.5	13	96	232	5.91	8.15	1.99
548371	<5	<0.2	6.50	560	<0.5	<2	1.88	0.5	6	104	48	6.66	7.45	0.96
548372	<5	<0.2	9.67	550	<0.5	<2	0.18	<0.5	20	117	2	5.88	3.06	2.12
548373	<5	0.4	5.93	550	<0.5	<2	3.44	<0.5	11	114	2642	5.87	4.76	1.84
548374	<5	<0.2	6.07	450	<0.5	2	3.06	<0.5	28	109	28	6.21	5.12	1.76
548375	<5	0.2	6.87	610	<0.5	2	2.61	<0.5	29	110	196	6.24	6.27	2.62
548376	<5	<0.2	5.87	710	<0.5	10	3.34	0.5	9	109	1171	6.81	5.56	1.89
548377	50	0.2	6.49	890	<0.5	<20	1.40	<0.5	15	101	>10000	9.46	6.16	0.98
548378	<5	0.2	6.62	490	<0.5	2	1.89	<0.5	11	109	731	5.83	6.56	1.23
548379	<5	<0.2	6.38	560	<0.5	6	3.20	<0.5	19	115	53	6.43	4.97	1.88
548380	<5	<0.2	6.70	580	<0.5	6	3.78	<0.5	12	106	61	5.45	6.11	2.11
548381	<5	0.4	5.83	600	<0.5	<2	1.19	<0.5	33	127	10	3.99	5.53	0.89
548382	<5	<0.2	6.47	710	<0.5	<2	2.56	<0.5	18	112	8	5.72	6.73	1.38
548383	5	<0.2	6.48	560	<0.5	4	4.35	<0.5	57	97	6	4.47	4.63	2.38

CERTIFICATION: *B. Caulfield*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221

PA EN DE PMEN MITE

711 - 675 W. HASTINGS ST.

VANCOUVER, BC

V6B 1N4

Project: FAIRCHILD LAKE HAIL
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

Page Number: 2
Total Pages: 4
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P.O. Number:
Account: BM

	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
548384	5	0.2	6.99	370	<0.5	2	2.55	<0.5	36	91	6	2.61	3.03	2.06
548385	5	0.2	8.67	1040	<0.5	<2	0.59	<0.5	6	88	9	4.02	5.93	0.35
548386	10	<0.2	5.81	640	<0.5	<2	2.27	0.5	24	80	957	5.67	5.54	1.35
548387	<5	<0.2	7.13	740	<0.5	4	3.22	<0.5	16	78	22	5.63	5.29	1.66
548388	<5	<0.2	7.37	760	<0.5	<2	2.57	<0.5	14	73	7	5.27	6.04	1.40
548389	10	<0.2	7.67	350	<0.5	<2	2.73	<0.5	12	75	10	5.03	4.82	1.49
548390	5	<0.2	8.11	560	<0.5	2	2.09	0.5	11	71	2	4.85	4.83	1.80
548391	<5	<0.2	6.95	430	<0.5	2	4.58	<0.5	19	62	1	5.76	4.29	3.17
548392	10	<0.2	6.38	980	<0.5	<2	1.24	0.5	43	57	110	6.94	7.39	0.63
548393	<5	<0.2	0.13	10	<0.5	<2	20.21	<0.5	16	2	3	2.65	0.11	12.28
548394	<5	<0.2	5.88	630	<0.5	4	1.77	<0.5	10	84	7	5.63	5.68	1.09
548395	40	<0.2	6.29	970	<0.5	2	4.00	0.5	13	55	4	6.02	5.50	2.23
548396	10	<0.2	6.44	860	<0.5	<2	2.23	<0.5	16	80	10	5.12	5.55	0.93
548397	30	<0.2	7.43	450	<0.5	<2	2.34	<0.5	56	66	619	4.37	3.72	1.19
548398	<5	<0.2	6.47	570	<0.5	<2	4.30	<0.5	20	63	21	2.02	5.20	2.21

CERTIFICATION: 



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221

PA J DE PMEN MITE

711 - 675 W. HASTINGS ST.

VANCOUVER, BC

V6B 1N4

Project: FAIRCHILD LAKE

Comments: CC: MURRAY JONES

HAIL

CC: DAVID CAULFIELD

Pa mber : 3
Total Pages : 4
Certificate Date: 29-SEP-92
Invoice No. :
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Account : BM

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
547090	2280	1	0.15	6	650	<2	12	0.16	51	10	18	50	<10
547091	690	8	0.12	23	1000	<2	5	0.47	84	<50	66	10	<10
547732	3640	1	0.14	6	730	<2	14	0.27	68	20	16	110	<10
547733	3895	<1	0.13	10	670	<2	14	0.19	53	20	14	30	<10
547734	1990	1	0.16	41	660	<2	14	0.20	100	20	44	40	<10
547927	4510	<1	0.07	14	600	<2	17	0.09	33	100	56	60	<10
547928	905	<1	0.16	91	600	<2	7	0.28	163	200	116	10	10
547929	3130	4	0.23	8	630	<2	17	0.12	61	70	52	180	<10
547930	4545	129	0.15	64	600	<2	13	0.36	20	200	104	<10	30
547931	1000	1	6.00	6	2400	4	32	0.05	8	40	34	2220	<10
547932	505	4	0.81	49	1160	<2	9	0.38	35	40	34	240	<10
547933	345	<1	1.76	4	690	<2	11	0.19	59	70	26	240	<10
547934	2290	<1	0.23	11	670	<2	20	0.23	80	80	32	20	10
547935	2185	<1	0.20	3	910	<2	13	0.22	57	110	36	20	10
548363	3095	1	1.86	6	840	<2	23	0.15	40	10	12	40	10
548364	2530	<1	0.89	72	1140	<2	24	0.42	177	20	54	70	<10
548365	5260	<1	0.16	18	860	<2	16	0.18	56	30	16	20	20
548366	3835	2	0.17	13	800	<2	16	0.17	65	100	46	20	20
548367	2280	4	0.56	23	730	<2	17	0.20	54	20	20	30	<10
548368	2810	<1	1.45	6	1020	<2	20	0.13	67	20	14	40	<10
548369	1820	3	0.18	13	1030	<2	13	0.32	129	20	20	150	<10
548370	1615	<1	0.21	52	920	<2	11	0.35	107	10	36	40	<10
548371	2235	<1	0.17	4	800	<2	10	0.19	56	20	14	20	10
548372	335	<1	0.65	80	450	16	124	0.22	84	10	30	40	<10
548373	3575	<1	0.56	11	700	<2	20	0.16	64	30	20	10	10
548374	3900	<1	0.15	17	720	6	13	0.19	44	20	22	20	10
548375	2590	<1	0.28	44	910	<2	12	0.41	123	30	30	30	<10
548376	3240	1	0.17	8	780	<2	15	0.17	63	30	24	40	<10
548377	1655	1	0.18	13	800	<2	12	0.18	60	100	72	70	<10
548378	2170	<1	0.19	8	640	<2	11	0.19	57	20	18	20	10
548379	2895	1	0.18	18	780	<2	15	0.20	59	20	14	10	20
548380	2815	<1	1.03	16	840	<2	21	0.19	48	20	14	60	<10
548381	2070	1	0.17	20	860	<2	11	0.12	30	<10	12	10	<10
548382	3480	<1	0.16	10	720	<2	15	0.15	56	10	16	<10	10
548383	4680	3	1.61	26	650	<2	15	0.14	59	20	16	<10	20

CERTIFICATION: B. Caulfield



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

P. J. ON DI)PME... LIMITL

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE HAIL
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

F. umbe : 1
Total Pages : 4
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Invoice No. :
P.O. Number :
Account : BM

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
548384	2805	<1	3.11	59	620	<2	16	0.09	47	10	24	<10	10
548385	635	1	2.56	10	670	<2	17	0.22	61	10	8	40	<10
548386	2250	8	0.16	15	650	<2	14	0.16	58	20	16	20	<10
548387	2365	1	2.10	14	750	<2	20	0.17	58	20	12	10	10
548388	2045	1	1.33	12	890	<2	20	0.19	54	20	12	20	<10
548389	1850	1	2.80	14	710	<2	15	0.22	58	20	18	10	<10
548390	1255	<1	2.25	27	740	<2	30	0.20	57	10	48	60	<10
548391	1785	<1	1.77	31	800	<2	22	0.16	58	20	48	20	<10
548392	3085	3	0.18	16	880	<2	13	0.19	52	20	22	20	10
548393	4185	<1	0.03	2	60	<2	32	<0.01	17	10	20	<10	100
548394	2505	3	0.15	10	720	<2	14	0.16	63	10	22	20	<10
548395	2015	1	1.34	16	820	<2	21	0.20	54	20	14	20	<10
548396	2540	<1	1.31	11	660	<2	17	0.17	47	10	12	40	<10
548397	3185	1	2.82	25	630	<2	21	0.14	43	10	16	190	<10
548398	4500	1	0.99	9	710	<2	20	0.13	61	10	8	50	<10

CERTIFICATION: B. Caulfield



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

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project: FAIRCHILD
Comments: ATTN: MIKE STAMMERS

Page Number : 1-A
Total Pages : 1
Certificate Date: 11-NOV-92
Invoice No. : 19224085
P.O. Number :
Account : BM

CORRECTED COPY

CERTIFICATE OF ANALYSIS A9224085

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)
MICA 508943	205 274	35	< 0.2	7.11	960	1.5	2	3.18	< 0.5	12	69	29	4.28	7.13	2.37
MICA 508944	205 274	25	< 0.2	7.08	770	2.0	< 2	1.56	< 0.5	18	88	18	5.16	6.21	1.58
MICA 10981	205 274	25	< 0.2	7.32	950	3.0	< 2	1.37	< 0.5	17	78	< 1	5.90	7.03	2.48
MICA 10982	205 274	55	< 0.2	6.91	940	1.0	4	1.50	< 0.5	9	91	< 1	2.39	8.25	1.56
MICA 10983	205 274	25	< 0.2	7.75	770	3.0	< 2	1.73	< 0.5	12	68	< 1	6.72	9.00	2.19
MICA 10984	205 274	225	< 0.2	6.62	1600	1.0	< 2	0.26	< 0.5	1	97	726	6.27	8.51	0.09
MICA 10985	205 274	40	< 0.2	6.69	960	1.5	< 2	2.37	< 0.5	10	70	< 1	7.20	6.74	1.88
MICA 10986	205 274	580	8.0	4.80	410	1.0	< 2	7.15	< 0.5	35	47	>10000	4.62	1.39	7.56
MICA 10987	205 274	30	< 0.2	6.67	60	0.5	< 2	1.49	< 0.5	6	96	207	5.54	0.26	0.86
MICA 10988	205 274	25	< 0.2	6.85	230	1.0	4	0.15	< 0.5	10	124	213	3.12	2.21	0.51
MICA 485081	205 274	405	< 0.2	5.99	920	< 0.5	< 2	3.71	< 0.5	7	58	< 1	6.72	7.33	2.46
MICA 485082	205 274	15	< 0.2	6.49	920	0.5	< 2	2.07	< 0.5	9	78	10	6.18	6.98	1.71
MICA 485083	205 274	80	0.4	1.68	120	0.5	< 2	0.08	< 0.5	259	231	8	4.84	0.87	0.14

CERTIFICATION:



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

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD
Comments: ATTN: MIKE STAMMERS

Page Number : 1-B
Total Pages : 1
Certificate Date: 11-NOV-9
Invoice No. : 19224085
P.O. Number :
Account : BM

CERTIFICATE OF ANALYSIS

A9224085

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	U ppm ICP	
MICA 508943	205 274	900	3	0.47	21	690	6	22	0.20	59	< 10	8	20	< 10	
MICA 508944	205 274	1090	< 1	0.55	27	800	< 2	13	0.16	65	< 10	14	40	< 10	
MICA 10981	205 274	375	< 1	0.30	30	790	< 2	13	0.23	67	< 10	12	50	< 10	
MICA 10982	205 274	810	< 1	0.27	13	790	< 2	18	0.14	28	< 10	16	50	< 10	
MICA 10983	205 274	960	< 1	0.34	14	850	< 2	16	0.22	70	< 10	20	50	< 10	
MICA 10984	205 274	145	< 1	0.23	3	810	20	17	0.16	82	< 10	20	10	< 10	
MICA 10985	205 274	1080	< 1	0.52	19	1040	< 2	16	0.17	82	< 10	14	70	< 10	
MICA 10986	205 274	1880	54	0.77	55	50	< 2	31	0.23	132	< 10	72	< 10	< 10	
MICA 10987	205 274	995	< 1	4.87	6	690	< 2	31	0.18	77	< 10	10	110	< 10	
MICA 10988	205 274	65	< 1	3.17	9	440	< 2	14	0.18	51	< 10	10	30	< 10	
MICA 485081	205 274	770	< 1	0.30	7	670	< 2	15	0.27	165	< 10	8	< 10	< 10	
MICA 485082	205 274	880	< 1	0.27	17	860	< 2	12	0.18	69	< 10	16	190	< 10	
MICA 485083	205 274	95	14	0.15	47	470	< 2	7	0.07	24	< 10	12	240	< 10	

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers

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

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project: FAIRCHILD LAKE MICA
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

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Account : BM

	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
547001	<5	0.4	7.97	1440	0.5	12	1.49	<0.5	9	93	148	5.46	7.05	1.32
547002	<5	<0.2	7.48	1840	<0.5	8	1.86	<0.5	8	77	19	5.68	7.43	1.56
547003	<5	<0.2	7.17	3060	1.0	6	0.81	0.5	16	102	95	4.34	7.55	2.06
547004	<5	<0.2	6.69	630	0.5	6	2.66	<0.5	4	85	6	3.52	3.59	1.64
547005	<5	<0.2	6.96	770	<0.5	4	1.93	<0.5	9	95	289	5.22	5.52	1.11
547006	<5	<0.2	7.82	640	<0.5	8	2.00	<0.5	9	79	216	4.57	3.57	1.27
547007	<5	<0.2	6.24	790	<0.5	6	4.51	<0.5	25	76	133	4.76	5.58	2.91
547008	<5	<0.2	8.23	670	<0.5	8	1.19	<0.5	13	90	47	6.55	4.35	1.51
547009	<5	<0.2	6.89	40	<0.5	8	3.82	<0.5	16	76	47	4.15	0.24	1.94
547010	<5	<0.2	7.35	580	<0.5	2	0.71	<0.5	10	95	35	3.87	4.07	0.90
547011	<5	<0.2	5.74	240	<0.5	8	5.06	<0.5	11	70	28	2.98	1.07	2.48
547012	<5	<0.2	7.00	150	<0.5	6	3.01	<0.5	9	86	39	4.95	0.90	1.62
547013	<5	<0.2	7.24	920	<0.5	2	2.26	<0.5	13	89	11	2.58	3.27	1.75
547014	<5	<0.2	6.47	30	<0.5	12	3.55	0.5	13	77	4	2.78	0.14	2.00
547015	10	<0.2	5.96	160	<0.5	8	3.68	<0.5	9	91	38	3.84	1.23	1.75
547016	5	<0.2	6.50	660	1.0	6	3.13	<0.5	13	103	250	4.71	5.44	1.74
547017	30	<0.2	6.64	350	1.5	4	2.10	<0.5	17	125	3018	4.81	4.20	1.34
547018	270	<0.2	5.30	1530	<0.5	<20	5.03	<0.5	8	85	>10000	7.35	6.34	2.44
547065	<5	<0.2	5.71	450	1.5	<2	0.13	<0.5	4	175	20	2.47	2.79	0.32
547066	<5	<0.2	2.83	530	<0.5	<2	0.26	<0.5	9	182	7	3.89	1.23	0.42
547067	<5	<0.2	8.22	420	1.5	<2	0.04	<0.5	9	127	14	2.63	3.25	0.84
547068	<5	<0.2	7.08	860	0.5	<2	0.70	<0.5	25	108	<1	6.08	4.23	2.70
547069	<5	<0.2	6.85	670	0.5	<2	3.97	0.5	18	81	<1	4.75	3.87	3.73
547070	<5	<0.2	7.12	1000	<0.5	<2	1.00	<0.5	17	109	<1	5.14	6.47	2.41
547071	<5	<0.2	6.22	630	0.5	<2	0.78	<0.5	18	146	<1	4.42	5.73	2.98
547072	<5	<0.2	7.93	980	0.5	<2	0.52	<0.5	28	135	7	6.54	6.26	4.08
547073	<5	<0.2	8.04	670	1.0	<2	1.42	0.5	21	120	<1	5.67	5.90	3.55
547074	<5	<0.2	7.32	870	<0.5	<2	2.03	<0.5	6	125	2	3.43	5.66	1.30
547075	<5	<0.2	7.27	710	<0.5	<2	0.76	<0.5	26	130	<1	6.20	5.35	3.51
547076	<5	<0.2	6.65	1010	<0.5	<2	1.22	<0.5	2	125	16	4.23	6.36	0.89
547077	<5	<0.2	7.38	1570	<0.5	<2	0.30	<0.5	12	107	4	4.58	7.59	1.22
547201	<5	<0.2	6.46	2610	<0.5	<2	1.69	<0.5	8	121	81	4.66	5.98	1.49
547202	5	<0.2	6.71	650	<0.5	<2	2.41	<0.5	6	98	65	5.53	6.92	1.69
547203	15	<0.2	6.60	330	<0.5	<2	3.40	0.5	8	87	3	4.27	4.21	2.56
547204	15	<0.2	9.22	770	3.0	<2	0.10	0.5	38	158	1112	1.26	4.59	0.54

CERTIFICATION:

B. Caulfield



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711 - 675 W. HASTINGS ST.
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V6B 1N4

Project: FAIRCHILD LAKE
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

MICA

Total Pages: 8
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	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
547001	750	2	0.30	18	780	<2	21	0.24	54	<10	18	90	<10
547002	650	2	0.16	20	710	<2	20	0.21	49	<10	14	60	<10
547003	515	<1	0.27	23	670	<2	71	0.16	35	<10	26	60	<10
547004	1505	2	2.43	7	620	<2	21	0.17	45	<10	6	10	<10
547005	2015	<1	1.54	14	790	<2	22	0.17	52	<10	12	40	<10
547006	1395	<1	3.31	14	700	<2	26	0.17	51	<10	12	10	<10
547007	2005	8	1.02	17	750	<2	26	0.18	72	<10	16	<10	<10
547008	1130	1	3.56	26	770	<2	20	0.19	66	<10	22	70	<10
547009	2160	2	5.13	12	720	<2	18	0.11	43	<10	12	50	<10
547010	660	1	2.24	15	680	<2	18	0.20	70	20	14	30	<10
547011	2995	1	3.78	9	830	<2	26	0.12	34	20	12	<10	<10
547012	1685	3	4.57	12	880	<2	17	0.17	58	30	12	50	<10
547013	1270	1	3.11	21	1020	<2	32	0.13	55	10	14	20	<10
547014	2320	1	4.92	10	770	<2	28	0.11	39	10	10	870	<10
547015	2790	<1	3.73	10	860	<2	20	0.12	41	20	6	20	<10
547016	1850	5	0.15	21	610	<2	16	0.17	58	20	20	60	<10
547017	1340	3	0.55	21	720	<2	13	0.17	49	30	18	100	<10
547018	3295	12	0.17	7	600	<2	31	0.19	46	60	48	220	<10
547065	1025	<1	0.11	9	370	2	9	0.26	43	<10	14	30	<10
547066	1790	<1	0.04	8	480	<2	14	0.08	26	<10	14	20	<10
547067	105	1	0.43	17	190	<2	12	0.30	58	<10	22	30	<10
547068	335	<1	2.06	29	660	<2	32	0.24	59	40	20	40	<10
547069	825	<1	2.24	23	570	<2	37	0.23	71	40	12	<10	<10
547070	515	<1	1.09	22	750	<2	21	0.22	51	30	18	50	<10
547071	400	1	0.15	22	740	<2	12	0.20	72	20	16	100	<10
547072	345	1	0.21	35	650	<2	11	0.31	98	40	32	80	<10
547073	495	<1	0.55	45	610	<2	14	0.31	76	40	26	30	<10
547074	1040	<1	2.14	7	660	<2	26	0.13	44	20	6	30	<10
547075	520	2	0.50	38	690	<2	13	0.28	58	40	28	60	<10
547076	995	1	1.79	13	760	<2	24	0.20	52	20	8	10	<10
547077	185	<1	1.27	24	820	<2	25	0.27	59	30	16	170	<10
547201	665	2	0.53	14	600	<2	49	0.21	51	10	12	60	<10
547202	1000	2	0.76	12	660	14	17	0.17	41	10	10	60	<10
547203	990	1	0.91	23	690	<2	16	0.19	53	10	8	20	<10
547204	70	14	0.21	6	310	4	8	0.19	69	<10	6	140	<10

CERTIFICATION:

B. Caulfield



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Project : FAIRCHILD LAKE
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

MICA

ages 8
Certificate Date: 29-SEP-92
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	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
547205	95	<0.2	7.17	420	<0.5	<2	2.57	<0.5	8	102	24	3.99	4.77	1.94
547206	20	<0.2	6.90	1100	<0.5	<2	1.69	<0.5	19	130	224	5.49	6.66	1.61
547207	25	<0.2	7.58	360	<0.5	2	3.04	0.5	6	94	1	4.83	4.11	2.39
547208	20	<0.2	6.90	420	<0.5	4	3.55	<0.5	9	84	<1	5.05	4.69	2.79
547209	15	<0.2	6.37	420	<0.5	6	5.26	<0.5	12	82	<1	4.68	3.90	3.83
547210	30	<0.2	6.39	50	<0.5	<2	0.18	<0.5	130	83	3264	10.86	0.36	3.60
547572	10	<0.2	0.13	<10	<0.5	<2	18.72	<0.5	11	4	28	1.34	0.06	12.02
547573	<5	<0.2	0.59	10	<0.5	<2	14.27	<0.5	10	28	152	1.23	0.20	9.11
547574	<5	<0.2	7.02	520	<0.5	2	4.10	0.5	9	67	13	4.14	4.40	2.57
547575	<5	<0.2	7.32	560	<0.5	4	3.30	0.5	10	89	73	5.27	3.88	2.18
547576	<5	<0.2	7.04	1000	<0.5	<2	3.70	<0.5	9	65	15	3.84	5.43	2.33
547577	<5	<0.2	10.06	1490	2.0	<2	0.30	<0.5	10	85	26	3.54	4.89	0.69
547578	<5	<0.2	6.99	650	<0.5	<2	2.58	0.5	21	62	3	4.88	5.94	2.79
547579	<5	<0.2	7.12	590	<0.5	4	2.81	0.5	14	78	11	5.88	4.80	2.08
547580	<5	<0.2	7.45	2640	<0.5	4	2.62	0.5	13	80	7	5.96	5.59	2.58
547581	<5	<0.2	6.55	2490	<0.5	4	3.35	0.5	6	73	33	5.29	7.76	1.90
547582	910	3.0	0.22	120	<0.5	<20	11.81	1.5	47	25	>10000	19.54	0.03	4.71
547583	55	<0.2	7.89	510	<0.5	2	2.84	0.5	11	83	276	4.66	5.60	2.28
547730	<5	<0.2	6.68	930	<0.5	<2	2.45	<0.5	8	84	13	4.60	8.38	1.06
547731	<5	<0.2	7.71	560	<0.5	<2	0.85	0.5	19	72	28	5.98	8.03	1.38
547901	<5	<0.2	7.23	30	<0.5	6	3.11	<0.5	9	90	1244	5.60	0.14	1.51
547902	30	<0.2	8.01	40	<0.5	4	1.11	<0.5	33	71	4129	4.41	0.25	1.23
547903	290	<0.2	8.30	120	<0.5	6	1.07	<0.5	23	110	7890	6.69	0.78	0.76
547904	280	<0.2	6.85	50	<0.5	8	3.24	<0.5	17	105	3862	2.67	0.14	1.62
547905	10	<0.2	5.42	50	<0.5	8	3.02	<0.5	13	135	479	3.04	0.18	1.73
547906	105	<0.2	6.83	130	<0.5	<20	0.79	<0.5	29	134	>10000	4.76	0.60	1.19
547907	1540	<0.2	7.24	420	<0.5	<20	1.53	<0.5	33	77	>10000	6.88	4.43	0.99
547908	70	<0.2	7.23	390	<0.5	<20	0.25	<0.5	11	103	>10000	7.59	4.58	0.71
547909	325	<0.2	7.39	120	<0.5	<20	0.51	<0.5	55	127	>10000	6.61	0.87	2.64
547910	150	<0.2	7.32	90	<0.5	<20	2.48	<0.5	92	113	>10000	8.38	0.48	2.85
547911	430	<0.2	8.26	110	<0.5	<20	0.29	<0.5	66	106	>10000	5.78	0.68	0.90
547912	25	<0.2	8.41	110	<0.5	4	1.10	<0.5	121	131	6771	4.83	1.88	2.22
547913	200	<0.2	0.28	240	<0.5	<20	17.64	<0.5	53	9	>10000	3.42	0.16	11.00
548001	5	<0.2	4.95	450	<0.5	<2	0.30	<0.5	25	219	2289	6.94	1.58	2.31
548002	<5	<0.2	6.57	260	<0.5	2	6.82	<0.5	17	78	1525	4.25	0.44	3.09

CERTIFICATION: B. Caulfield



Chemex Labs Ltd.

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711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE MICA
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

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	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
547205	680	1	1.47	23	670	4	18	0.24	55	10	8	40	<10
547206	1380	2	0.44	20	830	<2	15	0.16	57	10	18	50	<10
547207	850	<1	2.27	17	740	<2	21	0.21	55	10	8	60	<10
547208	1615	1	1.34	24	660	<2	20	0.19	42	20	12	70	<10
547209	1990	1	1.34	22	660	<2	22	0.19	46	30	12	<10	<10
547210	335	4	2.57	58	240	<2	22	0.42	331	70	50	10	<10
547572	2105	<1	0.03	2	60	<2	25	<0.01	15	<10	2	<10	<10
547573	2195	<1	0.02	8	120	<2	33	0.01	29	<10	6	<10	<10
547574	1660	1	1.19	17	680	<2	18	0.28	64	10	8	20	<10
547575	1015	1	2.10	16	790	<2	19	0.27	75	20	8	70	<10
547576	960	1	0.15	14	750	<2	17	0.19	70	20	6	30	<10
547577	125	2	0.39	21	530	<2	20	0.32	106	10	4	40	<10
547578	1005	<1	0.61	24	730	<2	18	0.21	57	20	18	20	<10
547579	1040	<1	0.40	25	740	<2	18	0.26	56	30	10	70	<10
547580	1310	<1	1.04	44	790	<2	57	0.24	78	30	16	30	<10
547581	1245	2	0.17	6	590	<2	63	0.13	54	20	12	40	<10
547582	>10000	6	0.01	39	<200	22	26	<0.01	34	150	132	<10	<10
547583	1100	<1	0.39	25	780	<2	15	0.27	67	20	12	50	<10
547730	2785	3	0.12	4	830	<2	15	0.20	74	20	8	70	<10
547731	1960	1	0.14	35	690	<2	9	0.39	139	10	28	40	<10
547901	1730	<1	5.52	5	740	2	16	0.24	69	20	12	10	20
547902	755	17	5.46	35	1560	<2	14	0.48	91	10	26	30	<10
547903	650	9	5.65	23	720	2	24	0.44	116	<10	36	30	10
547904	2185	8	5.10	24	1000	<2	27	0.16	26	<10	20	60	<10
547905	2525	<1	3.59	24	740	<2	18	0.15	28	<10	20	20	<10
547906	665	5	4.07	33	1000	<2	18	0.47	83	<50	56	20	10
547907	1690	<1	1.03	27	600	<2	9	0.12	48	<50	106	10	20
547908	155	4	0.49	15	800	<2	8	0.20	70	<50	98	20	20
547909	710	1	3.30	119	800	<2	18	0.68	168	<50	70	20	10
547910	1730	<1	3.97	86	800	<2	19	0.64	185	<50	72	20	10
547911	285	<1	5.08	47	600	<2	18	0.66	141	<50	56	20	<10
547912	820	<1	3.86	89	510	<2	22	0.43	111	20	38	10	10
547913	3485	16	0.07	8	<200	<2	37	<0.01	36	<50	54	<10	110
548001	425	4	1.50	40	420	<2	17	0.49	211	40	46	<10	10
548002	4210	5	4.24	19	1010	<2	37	0.13	56	40	22	120	<10

CERTIFICATION: *B. Caulfield*



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Project: FAIRCHILD LAKE MICA
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1. Pages: 8
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	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
548003	75	<0.2	7.32	700	<0.5	<2	3.50	<0.5	39	87	3946	4.92	7.14	2.95
548004	35	<0.2	2.51	70	<0.5	<20	10.43	<0.5	16	26	>10000	9.40	1.89	6.07
548005	<5	<0.2	4.40	50	<0.5	2	8.78	<0.5	11	69	2653	3.84	0.23	4.91
548006	50	<0.2	5.84	690	<0.5	<20	1.36	<0.5	57	112	>10000	4.95	5.10	2.59
548007	35	<0.2	2.98	120	<0.5	<2	3.95	<0.5	18	172	889	7.33	3.81	2.22
548136	<5	<0.2	7.04	2800	<0.5	2	3.04	<0.5	12	85	2	3.77	7.77	2.40
548137	10	<0.2	7.19	2500	<0.5	<2	2.40	0.5	10	71	55	3.91	8.98	1.41
548138	<5	<0.2	7.47	1590	<0.5	2	2.57	<0.5	10	76	<1	3.91	8.76	1.79
548139	20	0.6	4.33	140	<0.5	2	7.03	0.5	53	75	2057	8.63	0.28	2.63
548140	50	0.6	2.57	100	<0.5	<2	0.43	<0.5	457	110	177	18.74	1.15	0.45
548141	20	<0.2	6.98	390	<0.5	<2	3.41	0.5	21	80	524	8.11	3.55	1.99
548142	50	0.8	6.09	190	<0.5	<2	2.79	<0.5	168	95	9	7.03	4.78	1.10
548143	25	<0.2	6.70	590	<0.5	<2	0.04	<0.5	53	107	10	3.70	4.39	0.43
548144	<5	<0.2	0.64	20	<0.5	<2	1.46	1.5	12	23	2	>25.00	0.11	1.14
548145	10	<0.2	0.52	30	<0.5	<2	1.11	0.5	19	19	<1	>25.00	0.13	1.48
548146	20	0.4	0.62	10	<0.5	<2	1.12	<0.5	1257	39	932	>25.00	0.12	1.57
548147	20	1.6	4.28	140	<0.5	2	3.97	0.5	557	63	1998	18.19	1.86	1.41
548148	25	<0.2	5.78	170	<0.5	4	1.41	<0.5	206	97	31	8.95	2.65	0.86
548149	545	8.0	2.36	40	<0.5	8	1.87	<0.5	2143	120	432	23.57	1.24	0.65
548150	50	3.0	2.44	70	<0.5	<2	0.83	<0.5	2078	61	1831	>25.00	0.81	1.07
548151	140	<0.2	0.81	30	<0.5	14	8.27	<0.5	1593	51	117	>25.00	0.34	1.49
548152	25	<0.2	3.78	200	<0.5	4	8.17	0.5	245	78	12	11.07	2.25	2.73
548153	95	<0.2	2.45	40	<0.5	2	3.41	<0.5	2937	94	24	22.48	1.46	1.22
548247	<5	<0.2	7.84	620	<0.5	4	2.71	<0.5	14	89	13	4.95	5.45	2.49
548248	<5	<0.2	7.48	880	<0.5	2	2.40	<0.5	19	89	3	4.63	6.17	2.28
548249	<5	<0.2	7.52	1590	<0.5	6	3.50	<0.5	12	88	6	3.32	5.65	2.71
548250	20	<0.2	6.67	6090	<0.5	4	2.45	<0.5	13	87	4	4.79	6.46	2.36
548251	5	<0.2	7.02	690	<0.5	6	2.81	<0.5	13	82	3	4.02	6.33	2.41
548252	25	<0.2	7.29	1140	<0.5	6	2.66	0.5	17	89	4	5.10	7.92	2.41
548253	10	<0.2	7.27	1140	<0.5	2	1.63	<0.5	14	73	4	4.94	8.17	2.01
548254	25	<0.2	7.35	1550	<0.5	6	1.80	<0.5	9	76	2	4.75	9.33	1.31
548255	15	<0.2	7.24	880	<0.5	8	2.03	<0.5	19	82	13	6.12	5.24	2.29
548256	<5	<0.2	6.40	820	<0.5	10	1.37	<0.5	22	117	<1	5.39	3.81	2.36
548257	<5	<0.2	7.56	740	<0.5	8	2.04	0.5	18	97	1	5.32	5.65	1.52
548258	<5	<0.2	9.34	410	1.0	2	0.10	0.5	8	99	27	3.37	3.44	1.02

CERTIFICATION: *B. Caulfield*



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PHONE: 604-984-0221

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711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE MICA
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

Page Number: 8
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Invoice No.:
P.O. Number:
Account: BM

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
548003	2035	14	0.49	51	820	<2	21	0.08	73	60	38	<10	60
548004	5250	53	0.50	12	<200	<2	62	0.04	38	650	190	<10	130
548005	4765	<1	3.33	9	540	<2	33	0.07	35	50	18	<10	40
548006	1290	30	0.20	70	1200	<2	12	0.04	45	100	90	20	40
548007	1975	<1	0.09	8	570	<2	16	0.07	18	60	16	80	<10
548136	790	<1	0.32	18	770	<2	34	0.11	64	10	6	80	<10
548137	1070	<1	0.19	13	880	<2	18	0.10	79	10	8	80	<10
548138	795	<1	0.21	16	760	<2	16	0.16	56	10	6	80	<10
548139	2790	24	2.77	128	810	<2	28	0.05	28	60	84	10	20
548140	6580	15	0.07	215	2400	2	6	0.04	61	70	34	120	<10
548141	2625	<1	2.54	35	940	<2	22	0.09	84	40	24	40	<10
548142	3725	42	0.20	96	900	<2	20	0.09	47	40	12	20	10
548143	140	9	0.17	28	280	<2	7	0.14	56	20	4	10	<10
548144	>10000	<1	0.15	23	2070	<2	20	<0.01	90	150	60	160	<10
548145	>10000	3	0.06	26	2050	<2	14	<0.01	46	50	62	130	<10
548146	9435	114	0.07	219	5470	16	9	<0.01	194	50	58	280	<10
548147	9975	31	0.14	152	2540	10	21	0.06	65	80	40	100	<10
548148	2915	5	0.20	66	1120	<2	16	0.14	43	40	12	250	<10
548149	2915	354	0.07	199	2040	4	14	0.05	34	50	30	90	30
548150	>10000	39	0.10	313	2330	54	8	0.02	31	50	74	170	<10
548151	>10000	11	0.09	379	1500	2	46	0.02	22	100	40	140	<10
548152	>10000	10	0.12	88	1200	<2	51	0.08	48	50	16	60	<10
548153	9685	22	0.09	726	1370	4	20	0.04	56	80	34	20	30
548247	705	6	0.92	24	680	<2	23	0.25	65	20	8	40	<10
548248	845	2	0.20	27	770	<2	16	0.24	56	10	10	30	<10
548249	780	2	1.11	26	730	<2	36	0.20	56	10	6	40	<10
548250	575	2	0.21	25	790	<2	93	0.19	62	20	8	70	<10
548251	765	3	0.59	21	740	<2	17	0.18	55	20	8	40	<10
548252	765	1	0.21	27	860	<2	15	0.17	61	20	10	60	<10
548253	810	4	0.20	25	810	<2	12	0.17	58	20	14	60	<10
548254	765	3	0.21	16	760	<2	15	0.18	48	10	8	50	<10
548255	1125	2	1.62	28	740	<2	17	0.16	62	20	18	70	<10
548256	785	3	1.55	23	720	<2	19	0.18	55	10	16	80	<10
548257	1730	1	1.60	21	810	<2	17	0.17	62	20	12	50	<10
548258	135	1	0.35	11	390	<2	12	0.21	73	<10	24	20	<10

CERTIFICATION: *B. Caulfield*



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711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE MICA
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

1 ages 8
Certificate Date: 29-SEP-92
Invoice No. :
P.O. Number :
Account : BM

	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
548259	<5	<0.2	8.09	400	<0.5	8	1.93	<0.5	10	88	3	4.53	3.62	1.60
548260	30	0.4	7.80	90	<0.5	2	3.07	<0.5	14	91	788	3.61	0.34	2.22
548261	<5	<0.2	7.09	60	<0.5	8	3.37	<0.5	13	88	79	5.27	0.33	3.53
548262	<5	1.2	6.98	640	<0.5	6	3.11	0.5	26	104	158	3.40	4.75	1.15
548263	5	<0.2	6.11	330	<0.5	8	5.87	0.5	59	79	11	7.85	2.97	2.75
548264	10	0.8	6.72	500	<0.5	8	6.78	2.5	103	89	34	5.49	3.90	2.32
548265	145	1.0	3.06	110	<0.5	26	0.70	<0.5	904	127	1691	16.69	1.49	0.83
548266	30	2.4	7.77	450	<0.5	4	3.08	1.0	79	102	87	4.44	3.88	1.36
548447	<5	<0.2	6.30	320	<0.5	<2	3.63	<0.5	11	92	1	5.04	3.59	2.66
548448	15	<0.2	6.95	310	<0.5	<2	1.87	0.5	12	100	2	5.67	2.20	1.63
548449	20	<0.2	6.59	1170	<0.5	<2	2.38	<0.5	17	85	<1	6.03	6.60	2.47
548450	<5	<0.2	7.27	1180	<0.5	<2	2.11	0.5	13	89	2	4.96	6.82	1.87
548451	<5	<0.2	7.84	970	<0.5	<2	1.51	0.5	20	83	<1	6.34	5.43	2.48
548452	20	<0.2	6.38	480	<0.5	4	2.62	1.0	25	116	540	8.77	4.07	2.24
548453	35	<0.2	7.35	800	<0.5	<2	2.62	<0.5	9	95	49	6.48	4.10	1.65
548454	<5	<0.2	7.64	140	<0.5	6	3.53	<0.5	12	90	22	2.53	0.89	1.74
548455	45	<0.2	8.09	60	<0.5	4	2.60	<0.5	454	93	926	3.02	0.42	1.09
548456	<5	<0.2	5.87	680	<0.5	8	4.37	0.5	17	111	13	6.90	5.11	2.79
548457	<5	<0.2	6.74	280	<0.5	4	3.61	<0.5	15	79	14	5.73	2.46	2.41
548458	5	<0.2	7.09	870	<0.5	4	1.32	<0.5	15	92	4	6.29	5.49	2.03
548498	<5	0.4	6.97	370	<0.5	2	4.14	<0.5	19	66	113	4.69	3.45	3.13
548499	<5	<0.2	6.59	750	<0.5	2	1.73	<0.5	3	83	69	6.23	7.03	1.11
548500	<5	<0.2	7.21	3960	<0.5	<2	3.29	<0.5	8	78	4	5.43	7.75	2.22

CERTIFICATION: B. Caulfield



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711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE MICA
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

Page 1 of 8
Total Pages : 8
Certificate Date: 29-SEP-92
Invoice No. :
P.O. Number :
Account : BM

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm	La ppm	U ppm
548259	1735	1	3.15	28	730	<2	20	0.20	64	10	14	40	<10
548260	1865	4	5.30	27	740	24	30	0.13	76	10	44	100	<10
548261	2450	21	4.03	29	1250	32	27	0.13	94	20	86	60	<10
548262	3815	1	0.46	24	720	88	18	0.12	69	10	184	30	<10
548263	5745	5	0.19	55	670	<2	29	0.54	252	40	30	<10	30
548264	8075	17	0.19	25	1140	204	36	0.18	109	30	950	<10	50
548265	>10000	67	0.11	210	2350	<2	8	0.04	36	50	38	160	<10
548266	4205	16	0.23	30	800	28	14	0.12	94	30	318	30	10
548447	1280	3	2.23	41	630	<2	24	0.22	38	20	14	20	<10
548448	710	<1	4.06	9	810	<2	33	0.20	55	20	12	70	<10
548449	660	4	0.45	23	690	<2	17	0.22	53	30	16	60	<10
548450	610	<1	1.10	13	720	<2	20	0.22	53	20	12	90	<10
548451	470	1	1.78	27	780	<2	22	0.27	69	20	22	50	<10
548452	1565	4	1.61	51	850	<2	23	0.29	100	40	24	60	<10
548453	1975	6	1.74	22	1080	<2	24	0.19	102	30	16	70	<10
548454	1960	10	4.98	12	760	4	34	0.14	53	10	6	60	<10
548455	1525	4	5.80	27	700	4	47	0.11	39	20	8	10	30
548456	1455	2	0.71	16	670	<2	20	0.21	57	30	10	340	<10
548457	1205	1	2.93	20	770	<2	20	0.23	55	30	12	180	<10
548458	525	3	1.29	23	680	<2	15	0.25	93	20	18	70	<10
548498	1425	1	2.16	19	700	4	28	0.23	57	30	12	40	<10
548499	790	<1	0.19	8	780	6	14	0.25	42	20	12	100	<10
548500	1100	<1	0.36	12	730	4	73	0.23	52	20	10	90	<10

CERTIFICATION: *B. Caulfield*



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To: PAMICON DEVELOPMENTS LIMITED

711 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD
Comments: ATTN: MIKE STAMMERS

Page Number :1
Total Pages :1
Certificate Date: 23-NOV-92
Invoice No. :19224670
P.O. Number :
Account :BM

CERTIFICATE OF ANALYSIS

A9224670

SAMPLE	PREP CODE	Cu %									
HAIL 19937 HAIL 19938	244 -- 244 --	2.17 1.11									
MICA 10986	244 --	2.43									

CERTIFICATION:

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Total Price : 3
 Certificate Date: 03-OCT-92
 Invoice No. : 19222307
 P.O. Number :
 Account : BM

CERTIFICATE OF ANALYSIS A9222307

CERTIFICATION: W. H. Amrine



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PAISON DEVELOPMENTS LIMITED

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VANCOUVER, BC
V6B 1N4

Project : FAIRCHILD LAKE
Comments: ATTN: M. JONES CC: D. CAULFIELD

Page n : 1
Total Pages : 3
Certificate Date: 03-OCT-92
Invoice No. : 19222307
P.O. Number :
Account : BM

CERTIFICATE OF ANALYSIS

A9222307

SAMPLE	PREP CODE	Cu %									
547018	244 --	1.02									
547091	244 --	1.57									
547582	244 --	2.88									
547906	244 --	1.57									
547907	244 --	3.65									
547908	244 --	3.24									
547909	244 --	1.72									
547910	244 --	1.31									
547911	244 --	1.59									
547913	244 --	1.47									
547927	244 --	1.57									
547928	244 --	2.59									
547930	244 --	2.98									

CERTIFICATION:

W. J. Jones

APPENDIX F

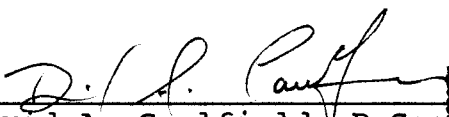
GEOLOGIST'S CERTIFICATE

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 on fieldwork carried out under my direction in August and September 1992, government publications and assessment reports filed with the Yukon. I have examined the property in the field.

DATED at Vancouver, British Columbia, this 23rd day of December, 1992.


David A. Caulfield, P.Geol.

