

MAP NO.: ASSESSMENT REPORT
106C 13 PROSPECTUS
 CONFIDENTIAL X
 OPEN FILE

DOCUMENT NO: 093116
MINING DISTRICT: MAYO
TYPE OF WORK: GEOCHEMICAL

REPORT FILED UNDER: EQUITY ENGINEERING LTD

DATE PERFORMED: AUGUST 26, 27, 31, 1992

DATE FILED: JUNE 11, 1993

LOCATION: LAT.: 64°52'N

AREA: BONNET PLUME RIVER

LONG.: 133°52'W

VALUE \$: 26,200

CLAIM NAME & NO.:

OLYMPIC 1-38 (YB28634-671), OLYMPIC 39-86 (YB28779-826)
OLYMPIC 87-92 (YB28959-963)

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. 95 LITHOGEOCHEMICAL SAMPLES AND 63
GRAB SAMPLES WERE COLLECTED. ASSAYS RETURNED AS HIGH AS 7.72% CU.
OVER 40 CM FROM THE ATHENS BRECCIA. GRAB SAMPLES ASSAYED UP TO
8.42% CU.



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

Claim sheet no.

Type of report

Submitted by

Cls. work performed on

\$ req. for ren. application

Signature

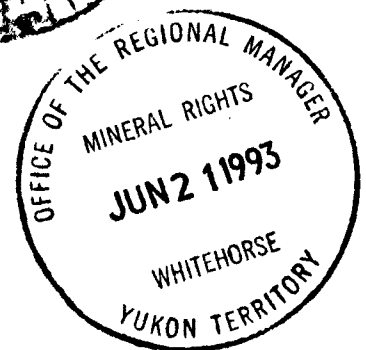
REPLY ACTION

Date returned

093116

Signature

**1992 GEOCHEMICAL
REPORT
ON THE
OLYMPIC 1-92 CLAIMS**



Located in the Wernecke Mountains
Mayo Mining District
NTS 106C/13W
64° 52' North Latitude
133° 52' West Longitude

093116

-prepared for-
WESTMIN RESOURCES LIMITED

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

DATES OF WORK PERFORMED: August 26,27,31, September 6, 1992

DATE OF REPORT: December 1992

of \$26,200

for Regional Manager, Exploration
Geological Services for Commi

1992 GEOCHEMICAL REPORT ON THE OLYMPIC 1-92 CLAIMS

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1.0 INTRODUCTION

The Olympic 1-92 claims are located in the Wernecke Mountains, approximately 175 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 Olympic property was acquired on this basis.

Geological mapping, prospecting and lithogeochemical sampling were carried out over the Olympic 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 Olympic property comprises 92 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
Olympic 1	YB28634	July 6, 1992	Dec. 31, 1996*
Olympic 2-4	YB28635-637	July 6, 1992	Dec. 31, 1995*
Olympic 5	YB28638	July 6, 1992	Dec. 31, 1996*
Olympic 6	YB28639	July 6, 1992	Dec. 31, 1995*
Olympic 7	YB28640	July 6, 1992	Dec. 31, 1996*
Olympic 8	YB28641	July 6, 1992	Dec. 31, 1995*
Olympic 9-14	YB28642-647	July 6, 1992	Dec. 31, 1996*
Olympic 15-22	YB28648-655	July 6, 1992	Dec. 31, 1995*
Olympic 23	YB28656	July 6, 1992	Dec. 31, 1996*
Olympic 24	YB28657	July 6, 1992	Dec. 31, 1995*
Olympic 25	YB28658	July 6, 1992	Dec. 31, 1996*
Olympic 26	YB28659	July 6, 1992	Dec. 31, 1995*
Olympic 27-38	YB28660-671	July 6, 1992	Dec. 31, 1995*

Olympic 39-70 YB28779-810	Aug. 24, 1992	Dec. 31, 1996*
Olympic 71-78 YB28811-818	Aug. 24, 1992	Dec. 31, 1995*
Olympic 79-82 YB28819-822	Aug. 24, 1992	Dec. 31, 1996*
Olympic 83-86 YB28823-826	Aug. 24, 1992	Dec. 31, 1995*
Olympic 87-92 YB28958-963	Sept. 14, 1992	Sept. 14, 1993

* Subject to approval of assessment work covered by this report

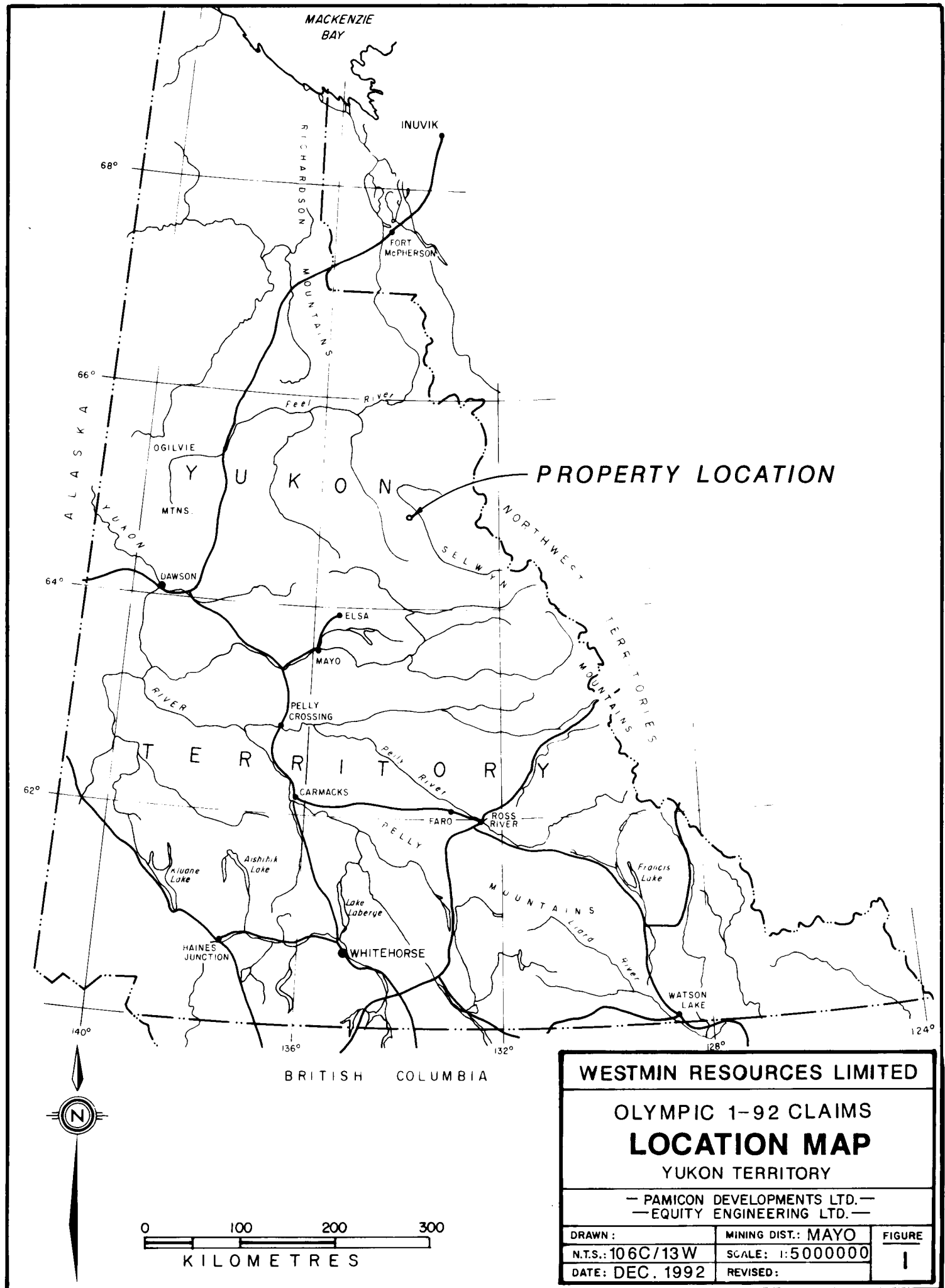
3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Olympic property is located in the Wernecke Mountains of east central Yukon, approximately 175 kilometres northeast of Mayo (Figure 1). The property is located 8.5 kilometres southwest of Fairchild Lake on the west side of the Bonnet Plume River. The claims are situated in the Mayo Mining District, centered at 64° 52' north latitude and 133° 52' 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, some 17 kilometres southwest of the Olympic property. Mayo has scheduled air service from Whitehorse. A branch from 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. A winter tote road, which passes immediately to the south of the property, was utilized in the late 1960's for the exploration of copper occurrences at Dolores Creek. During the 1992 field program, access was by helicopter from a camp on a tributary of Breccia Creek located 7.5 kilometres northeast of the Bear River airstrip.

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 Olympic property range from 1,125 metres in the creek valley to over 2,000 metres on several unnamed peaks. 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.



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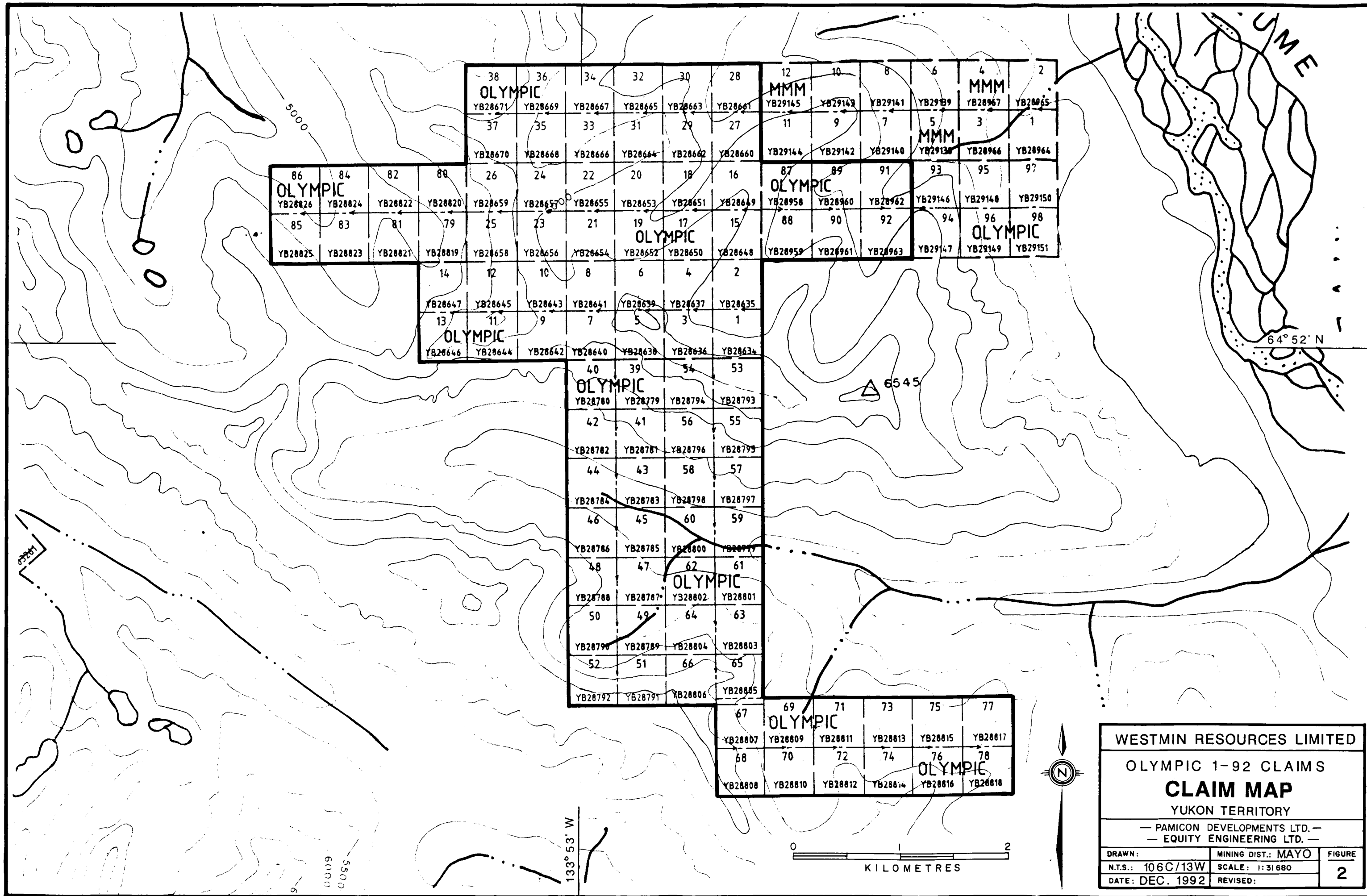
OLYMPIC 1-92 CLAIMS

LOCATION MAP

YUKON TERRITORY

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

DRAWN:	MINING DIST.: MAYO	FIGURE
N.T.S.: 106C/13W	SCALE: 1:5000000	1
DATE: DEC. 1992	REVISED:	



WESTMIN RESOURCES LIMITED		
OLYMPIC 1-92 CLAIMS		
CLAIM MAP		
YUKON TERRITORY		
— PAMICON DEVELOPMENTS LTD. — — EQUITY ENGINEERING LTD. —		
DRAWN:	MINING DIST.: MAYO	FIGURE
N.T.S.: 106C/13W	SCALE: 1:31680	2
DATE: DEC. 1992	REVISED:	

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 (i.e. Urangesellschaft, Noranda) and joint ventures (i.e. 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.

No work has been filed for the area now covered by the Olympic claims.

4.2 1992 Exploration Program

During August and September of 1992, Westmin Resources Limited carried out a preliminary exploration program on the Olympic 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 63 grab samples and 95 lithogeochemical rock samples were taken.

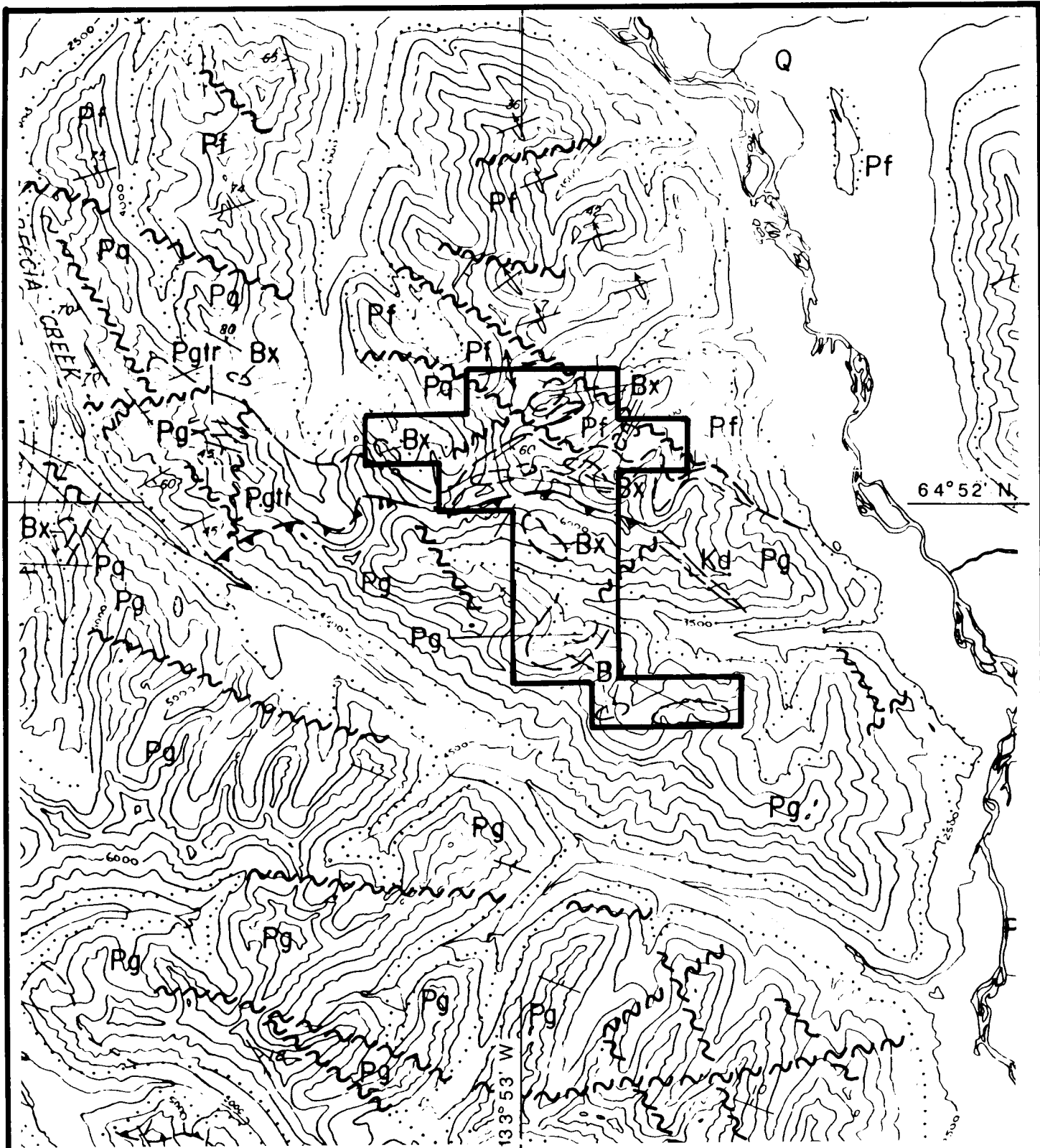
Lithogeochemical samples were taken approximately 100 metres apart, generally along contours where outcrop exposures and talus slopes were accessible for sampling. The purpose of these samples was threefold: (1) to determine the tenor of copper mineralization as a bulk tonnage target, (2) to locate areas 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, uranium and by ICP for 24 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. Camsell 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



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

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WESTMIN RESOURCES LIMITED

**OLYMPIC 1-92 CLAIMS
REGIONAL GEOLOGY**

YUKON TERRITORY

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

DRAWN:	MINING DIST.: MAYO	FIGURE
N.T.S.: 106C/13 W	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.

Pqtr 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

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 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). Gabbroic dykes (Gb), 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 Olympic claims cover all three groups of the Wernecke Supergroup which have been subjected to extensive faulting (Figure 4). These sedimentary units have been intruded by a large number of hematite breccias and gabbroic dykes. As the focus of the program was on examining the breccias, and therefore, neither detailed structural or lithological examinations of the sedimentary units were conducted.

The oldest rocks exposed on the property are those of the Fairchild Lake Group (Unit Pf) which occur in the northeast corner of the property. Where examined, the rocks are finely laminated grey to green, phyllitic siltstone. In close proximity to the hematite breccias, the units have a skarned appearance with epidote and silica alteration. The block of Fairchild Lake sediments northeast of the property is known from regional mapping to be overturned.

Units of the Quartet Group (Unit Pg) cross the central part of the property. These units consist of interbedded, light to dark grey, siltstone and quartzite with minor interbeds of shale and carbonate. The appearance of carbonate in the section suggests the exposed rock units are in the upper part of the Quartet section close to the Gillespie Lake carbonate facies.

The southern half of the Olympic property is underlain by orange weathering dolomite of the Gillespie Lake Group (Unit Pg). North of the east-west trending fault, the lowest and transitional member of the Gillespie Group is exposed. This unit (Unit Pgtr) consists of massive interbeds of orange weathering dolomite and light green quartzite-siltstone, giving the unit a striped appearance. Immediately south of the fault, the Gillespie Lake Group is comprised of massively bedded, fossiliferous dolomite and limestone. The fossils are stromatolites which are known to occur at the top of the Gillespie section. Therefore, the vertical displacement along the fault must be considerable as the entire Gillespie Group is at least 4,000 metres thick.

The Wernecke Supergroup strata are cut by a number of hematite breccia bodies that are spatially related to the major faults crosscutting the property. For mapping purposes, the breccias have been subdivided by clast type 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 being restricted to the margin of the breccias. 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 doming of dolomite beds on either side of the Athens Breccia in the southwest corner of the property also suggests forceful emplacement. The weakest manifestation of brecciation is a crackled phase exhibiting no rotation of fragments. Specular hematite (<5%) and carbonate fill the interstices between fragments. This phase commonly weathers brown due to strong carbonate alteration. The inner contact of the homolithic breccia is normally very sharp with the heterolithic phase. Homolithic breccia types seem to be restricted to the Quartet-Gillespie transition and further up section.

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 to pink. The breccias are matrix-supported with subrounded to rounded fragments ranging from one centimetre to one 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 and chlorite; clasts are altered to silica, red hematite and perhaps potassium feldspar. The clasts include all rock types of the Wernecke Supergroup and at one location (near sample 547322), a block of leucocratic intrusive is contained in the heterolithic breccia. The block measures several metres in diameter and is surrounded by exfoliated fragments of the same type. The intrusive is fine-grained, equigranular and is comprised of pinkish feldspar and quartz with 5-10% specular hematite and 1-2% crystalline purple garnet.

Six different breccia bodies have been identified on the Olympic property: Athens, Montreal, L.A., Barcelona, Tokyo and Melbourne. The size of the breccias varies from less than 100 metres across to greater than 1000 metres. The Melbourne Breccia, which crosses the central part of the claim group, has been mapped over 3.0 kilometres and remains open in both directions. The breccias in the northern part of the property may be controlled in part by the fault structures. To date, no structural feature has been associated with the southern breccia bodies.

A number of gabbroic to dioritic dykes (Unit Gb) crosscut all three groups of the Wernecke Supergroup. They tend to be oriented in a northwesterly direction.

6.2 Mineralization

The bulk of the mineral showings are related to the specular hematite-bearing breccias (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 chalcopryite, pyrite, bornite and possibly chalcocite. Pyrite

commonly occurs in crystalline form. 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 Athens Breccia exhibits sulphide zoning from bornite in the core to chalcopyrite and then pyrite on the fringes of the pipe. The mineralization is accompanied by silica, carbonate, chlorite, barite, sericite and potassium feldspar alteration.

The highest metal values for breccia mineralization were returned from grab samples of visual copper mineralization with maximum individual values of 2640 ppb gold, 20.0 ppm silver, 3621 ppm cobalt, 8.42% copper, 166 ppm molybdenum, 504 ppm nickel, 650 ppm tungsten and 180 ppm lanthanum. Six samples assayed >1.0% copper. There is a correlation between copper and gold grades; lead, zinc, silver and uranium values are uniformly low. The better copper mineralization is associated with the Melbourne and Athens Breccias. For example, of the nineteen samples taken on the east part of the Melbourne Breccia, fourteen samples contained >1000 ppm copper, of which six samples contained >5000 ppm copper. The highest copper values are associated with a siderite-rich breccia at this location. Two consecutive grab samples (547323, 547324) across 29.0 metres of crackled dolomitic sediments averaged 1,654 ppm copper. The richest sample (547917) taken at the Athens Breccia returned 7.72% copper over a sample width of 40 centimetres. Carbonate breccia is not present at the Athens Breccia.

A review of the lithogeochemical samples shows that the heterolithic breccia contains higher average copper values than the homolithic type. Approximately half of the heterolithic samples have >200 ppm copper (<1-3750 ppm) whereas more than 90% of the homolithic samples have <200 ppm copper (8-374 ppm). All of the breccias, except for the Barcelona and Tokyo Breccias, are enriched in potassium and have only weakly elevated sodium values. The Athens Breccia has elevated barium values reflecting the barite alteration present.

Banded iron formation was discovered in dolomitic beds west of the Athens Breccia. Alternating beds of dolomite (>1.0 cm.), red jasper (<0.5 cm.) and magnetite (<2.0 cm.) occur over a true width of 10 metres. Two samples were taken from float derived from this occurrence; one of these samples (#584051) was contaminated by a previous copper-rich sample during crushing in the laboratory and therefore, its assay is unreliable. Sample 548231 more accurately reflects the tenor of mineralization with low metal values throughout except for iron.

Narrow pyritic quartz veins and stockwork zones cut dolomitic sediments south and west of the Montreal Breccia. Seven samples were collected from this material with maximum values of 15 ppb

gold, 21.4 ppm silver, 26 ppm cobalt, 176 ppm copper, 290 ppm lead, >10000 zinc and 70 ppm uranium.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Olympic claims were staked over copper showings associated with six hematite breccias covering an area of five by six kilometres. Four field days were spent examining the breccias' potential for hosting Olympic Dam type copper-gold-silver-uranium deposits. Widespread copper mineralization was discovered with grab samples assaying up to 8.42% copper. Of the six breccias examined, the Athens and Melbourne Breccias returned the most consistent copper grades.

The breccias are situated at the juxtaposition of all three groups of the Wernecke Supergroup which have been extensively faulted. The Olympic hematite breccias are in close proximity to each other and it is quite plausible that a number of these breccias, if not all, coalesce into a single body at depth. The degree of structural displacement must have had a pronounced effect on the emplacement of the hematite breccias and later movement may have remobilized copper-bearing fluids and concentrated copper mineralization. This may explain the high grade copper mineralization associated with the siderite-rich breccia within the Melbourne Breccia.

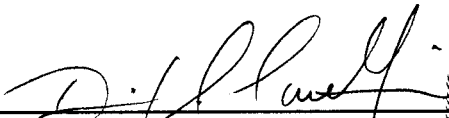
The hematite breccias have been subdivided by clast type into two categories: homolithic and heterolithic. The degree of fragmentation, rounding, alteration, and mineralization is stronger in the heterolithic phase which contains a variety of clast lithologies including specular hematite-bearing intrusive fragments. The significance of this intrusive block is two-fold. Its presence suggests that the degree of fragment transport within the heterolithic phase of the breccia must be considerable as no intrusive rocks of this type have been found on or near the Olympic property. Secondly, the high specular hematite content in the intrusive may indicate a genetic relationship between the hematite breccia and a deeper-seated intrusive body.

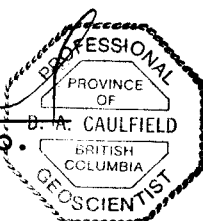
One of the breccias, the Athens Breccia, exhibits the gross sulphide zoning characteristic of the Olympic Dam deposit in which pyrite lies peripheral to chalcopryite which in turns envelopes a copper-rich bornite core.

Banded iron formation is hosted in the Gillespie Lake dolomites on the west side of the Athens Breccia. Its location close to the hematite breccia suggests a genetic relationship. The iron replacement may have resulted from leakage from the breccia located below.

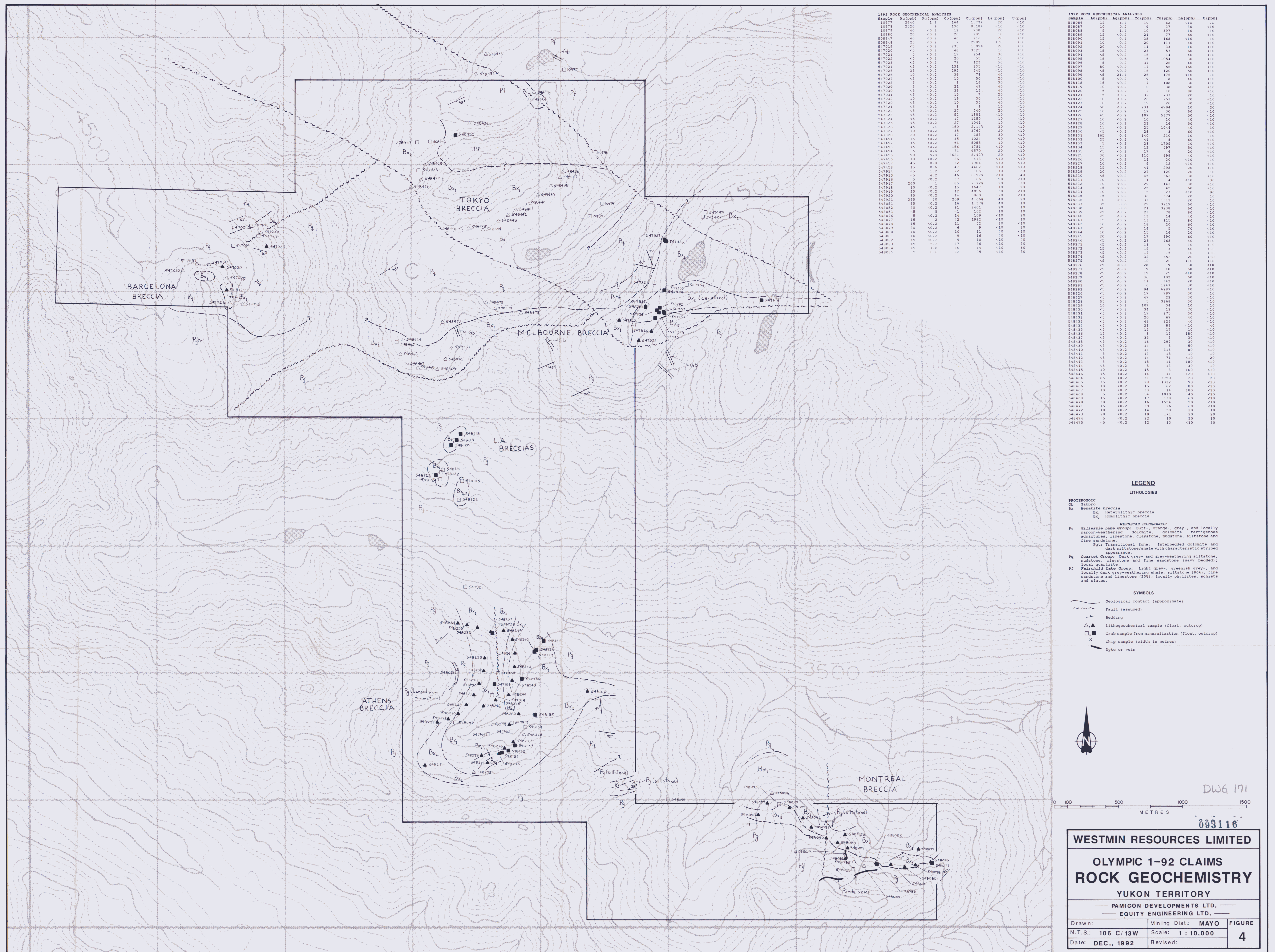
The 1992 exploration results justify further work on the Olympic property. The next stage of exploration should focus on detailed mapping and control sampling of areas returning significant copper values. In particular, this should place the greater emphasis on the Athens and Melbourne Breccias. Grid control should be established over each area for mapping purposes. As much of these areas are overburden covered, soil/talus geochemical and geophysical surveys should be carried out to define the extent of the copper zones. In addition, reconnaissance mapping and prospecting should be conducted in all areas not covered by the 1992 work program. The source of the two gold-bearing float samples 10977 and 10978 should be located and evaluated.

Respectfully submitted,


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



Vancouver, British Columbia
December, 1992



APPENDIX A

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BIBLIOGRAPHY

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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

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

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

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

APPENDIX C

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES
OLYMPIC 1-92 CLAIMS**

CANADA) In the matter of an evaluation program on the
) Olympic 1-92 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 Olympic 1-92 Mineral Claims during the period August 26 to September 6, 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.		
5.5 days @ \$375/day	\$	2,062.50
Chris Rockingham, Geologist		
2 days @ \$300/day		600.00
Al Montgomery, Field Geologist		
6.54 days @ \$300/day		1,950.00
Tom Bell, Sr. Prospector		
4 days @ \$250/day		1,000.00
Elmer Debock, Sr. Prospector		
1.5 days @ \$250/day		375.00
K. Parsons, Cook		
2.5 days @ \$250/day		<u>625.00</u>
	\$	6,612.50

EXPENSES:

Travel, Accomodation & Meals	\$	460.83	
Airfares		356.50	
Camp Food		454.57	
Camp Fuel		29.56	
Camp Rental		687.12	
Radio Rental		96.02	
Field Equipment Rental		447.05	
Equipment Fuel		16.56	
Truck Rental		241.57	
Field Equipment & Supplies		477.05	
Maps and Reproductions		89.49	
Expediting		119.55	
Telephone and Communications		82.49	
Helicopter & Fuel		7,193.03	
Fixed Wing		2,346.00	
Freight		96.22	
Assays (155 samples @ \$14.95)		2,317.25	
Lawyers Fee (notarizing forms)		7.31	
Clerical (UTM's)		263.92	
Report		2,593.59	
Management Fees		<u>3,099.75</u>	\$ <u>21,475.43</u>

SUBTOTAL:

\$ 28,087.93

GST:

7% on subtotal

1,966.16

TOTAL:

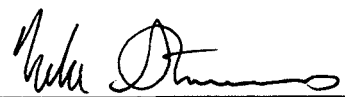
\$ 30,054.09

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.

)
)
) 

H.S.D.M.

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 : OLYMPIC

NTS : 106C/13

Date : 12/11/92

Sample No.	Location :	7196 750 N	Type :	Float	Alteration :	sCL, wCB	Au	Ag	Co	Cu	La	U
		554 200 E	Strike Length Exp. :	----- m	Sulphides :	1%PY, 1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10977	Elevation:	1388 m	Sample Width :	15 cm	Oxides :	wGE, wMC, wMN	2640.	1.8	164.	1.73%	20.	<10
	Orientation:	---- / ---	True Width :	m	Host :	Green phyllitic sediment(?)						

Comments : Olympic 30 claim. Fine-grained sulphides in irregular seams (0.5-1.0 x 5 mm) with 0.5 mm CB envelopes. Isolated float boulder in float of similar but unmineralized rock.

Sample No.	Location :	7196 100 N	Type :	Select float	Alteration :	mCB	Au	Ag	Co	Cu	La	U
		554 450 E	Strike Length Exp. :	----- m	Sulphides :	5%CP, 5%PY, <1%CC	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10978	Elevation:	1305 m	Sample Width :	1x1.5 m	Oxides :	sMC, mGE	2520.	9.0	136.	8.18%	<10	<10.
	Orientation:	---- / ---	True Width :	----- m	Host :	Quartz vein?						

Comments : Olympic 30 claim. Large talus block of sugary quartz sandstone cut by irregular masses of CP-PY-CB. Secondary CC and MC on surface and fractures. Abundant similar float nearby, two other boulders with abundant MC. Could be felsic dyke?

Sample No.	Location :	7195 700 N	Type :	Float	Alteration :	sCL, mSI	Au	Ag	Co	Cu	La	U
		554 500 E	Strike Length Exp. :	----- m	Sulphides :	5%HS, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10979	Elevation:	1402 m	Sample Width :	50 cm	Oxides :	wGE	40.	<0.2	12	738.	20.	<10.
	Orientation:	---- / ---	True Width :	m	Host :	Heterolithic breccia						

Comments : Olympic 16 claim. Grab from ten fairly typical pieces of heterolithic breccia across talus chute. Moderately silicified pink and pale green subrounded fragments in very fine-grained CL-HS matrix. Non-magnetic. Half of float in talus is breccia.

Sample No.	Location :	7195 600 N	Type :	Float	Alteration :	mCB, wCL, wSI	Au	Ag	Co	Cu	La	U
		554 400 E	Strike Length Exp. :	----- m	Sulphides :	15%HS, <1%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
10980	Elevation:	1420 m	Sample Width :	20 cm	Oxides :	trMC	20.	<0.2	20.	285.	10.	<10.
	Orientation:	---- / ---	True Width :	m	Host :	Heterolithic breccia						

Comments : Olympic 16 claim. No MC on surface, just two flecks on interior surface. Large bleb of CP (5mm diameter) on surface. Subangular pink and dark grey fragments in fine-grained CB-CL-HS matrix. Abundant 2mm HS plates. Abundant similar float nearby.

Sample No.	Location :	7196 175 N	Type :	Float	Alteration :	sCL	Au	Ag	Co	Cu	La	U
		553 050 E	Strike Length Exp. :	----- m	Sulphides :	1%PY, 1%HS, trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
508947	Elevation:	1592 m	Sample Width :	>2.5 m	Oxides :	mGE	40.	<0.2	46.	216.	20.	<10.
	Orientation:	---- / ---	True Width :	----- m	Host :	Heterolithic breccia						

Comments : Olympic 33. Subrounded fragments of various lithologies to 10 cm. (some intensely chloritized) in fine-grained CL-HS matrix with abundant pyritohedrons (0.5-1.0 mm), 1 mm flakes HS and one 2mm CP bleb. Abundant blocks of subcrop. Red copper lichen.

Sample No.	Location :	7196 175 N	Type :	Float	Alteration :	sCL, wSI	Au	Ag	Co	Cu	La	U
		553 150 E	Strike Length Exp. :	----- m	Sulphides :	15%HS, trCP, BO(?)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
508948	Elevation:	1573 m	Sample Width :	30 cm	Oxides :	sGE, mMC	25.	<0.2	7.	2989.	170.	10.
	Orientation:	---- / ---	True Width :	m	Host :	Heterolithic breccia						

Comments : 30% subrounded chloritic fragments in very fine-grained HS-CL matrix. May include BO (CP seen in only one place; not enough to account for the amount of MC). Only MC-stained boulder in subcrop boulder field of HS breccia. Abundant red copper lichen.

Property : OLYMPIC

NTS : 106C/13

Date : 12/11/92

Sample No.	Location :	7195 360 N	Type :	Float	Alteration :	wCB, mCL, mSI, HE	Au	Ag	Co	Cu	La	U
		551 610 E	Strike Length Exp. :	m	Sulphides :	<1%CC, <1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547019	Elevation:	1550 m	Sample Width :	m	Oxides :	sAZ, wMC, JA, wMN	<5	<0.2	235.	1.02%	20.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia (and other rock type?)						

Comments : Select of azurite stained talus, assorted alteration and mineralization; 1% disseminated euhedral pyrite disseminated and patchy chalcocite noted in a few pieces; approximately 50% talus heterolithic breccia; <5% talus with azurite/malachite.

Sample No.	Location :	7195 520 N	Type :	Select	Alteration :	wCB, sCL, wQZ, mSI	Au	Ag	Co	Cu	La	U
		551 750 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, <1-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547020	Elevation:	1640 m	Sample Width :	20 m	Oxides :	GE, MC	<5	<0.2	48.	3325.	10.	<10
	Orientation:	/	True Width :	20 m	Host :	Heterolithic breccia						

Comments : Select of malachite stained heterolithic breccia and altered sediments; chalcopyrite with specular hematite and alone as patches, seams and fine-grained disseminations; malachite stains spotty over outcrop, very strong in patches.

Sample No.	Location :	7195 510 N	Type :	Grab	Alteration :	wCB, wCL, mSI	Au	Ag	Co	Cu	La	U
		551 730 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547021	Elevation:	1630 m	Sample Width :	10 m	Oxides :	None	5.	<0.2	17.	254.	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Banded altered sediments and autobreccia, and heterolithic breccia; minor fine-grained disseminated chalcopyrite.

Sample No.	Location :	7195 460 N	Type :	Grab	Alteration :	wCB, mCL, mSI	Au	Ag	Co	Cu	La	U
		551 800 E	Strike Length Exp. :	m	Sulphides :	trCP, <1%PY, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547022	Elevation:	1675 m	Sample Width :	5 m	Oxides :	None	<5	<0.2	20.	55.	10.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Sample of breccia north side of possible fault; rare chalcopyrite-disseminated, medium-grained and on fractures.

Sample No.	Location :	7195 440 N	Type :	Float	Alteration :	mCL, sSI	Au	Ag	Co	Cu	La	U
		551 800 E	Strike Length Exp. :	m	Sulphides :	>5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547023	Elevation:	1665 m	Sample Width :	m	Oxides :	GE	<5	<0.2	79.	123.	50.	<10
	Orientation:	/	True Width :	m	Host :	Altered sediments						

Comments : Select of talus of strongly oxidized altered very fine-grained sediments(?); medium green very fine-grained massive, patchy disseminated, fine-grained to coarse-grained, anhedral-euhedral, pyrite. Strong fe-oxide weathering.

Sample No.	Location :	7195 350 N	Type :	Grab	Alteration :	wQZ, wSI	Au	Ag	Co	Cu	La	U
		551 870 E	Strike Length Exp. :	m	Sulphides :	trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547024	Elevation:	1620 m	Sample Width :	m	Oxides :	None	<5	<0.2	131.	235.	0.	<10
	Orientation:	094 / 70 S	True Width :	m	Host :	Shale/quartzite						

Comments : Light grey siliceous very fine-grained sediment (quartzite) and dark grey shale; minor quartz veinlets, gentle, open warps; moderately well bedded; no breccia talus noted near here.

Sample No.	Location :	7194 900 N	Type :	Float-Talus	Alteration :	wCB, mCL, KF?, mSI	Au	Ag	Co	Cu	La	U
		551 680 E	Strike Length Exp. :	m	Sulphides :	trCP, <1%PY, 0-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547025	Elevation:	1575 m	Sample Width :	m	Oxides :	GE	35.	<0.2	292.	345.	0.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Grab of heterolithic breccia in talus, 10% of talus-heterolithic breccia, 90%-shale; assorted breccia types including heterolithic and homolithic crackle breccia; hematite common; noted few pieces talus w. strong MC +/- crs. CP to 5% (not incl.in sample												

Sample No.	Location :	7194 920 N	Type :	Float	Alteration :	wCB, wCL, mSI	Au	Ag	Co	Cu	La	U
		551 580 E	Strike Length Exp. :	m	Sulphides :	trPY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547026	Elevation:	1580 m	Sample Width :	m	Oxides :	None	10.	<0.2	36.	78.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Grab of talus: 50% breccia, 50% dolomitic sediments; abundant fragments, very fine-grained +/- banded sediments, 4-10cm diameter; matrix siliceous.												

Sample No.	Location :	7195 010 N	Type :	Grab	Alteration :	wCB, mCL, mSI	Au	Ag	Co	Cu	La	U
		551 550 E	Strike Length Exp. :	m	Sulphides :	trCP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547027	Elevation:	1560 m	Sample Width :	m	Oxides :	None	<5	<0.2	15.	50.	20.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Noted a few coarse grains of chalcopyrite in one piece of sampled material.												

Sample No.	Location :	7195 110 N	Type :	Float-Talus	Alteration :	mCB, WCL, mQZ	Au	Ag	Co	Cu	La	U
		551 550 E	Strike Length Exp. :	m	Sulphides :	trPY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547028	Elevation:	1550 m	Sample Width :	m	Oxides :	None	5.	<0.2	8.	16.	30.	<10
	Orientation:	/	True Width :	m	Host :	Shale						
Comments : Grab of talus (talus 10% heterolithic breccia, 90% fractured to crackle brecciated shale); dark grey fractured shale; minor pyrite in quartz-carbonate fractured filling.												

Sample No.	Location :	7195 200 N	Type :	Grab	Alteration :	mCB, WCL, mSI	Au	Ag	Co	Cu	La	U
		551 515 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547029	Elevation:	1545 m	Sample Width :	m	Oxides :	None	5.	<0.2	21.	49.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia/brecciated shale						
Comments : Weakly crackle brecciated shale to heterolithic breccia; sulphides rare.												

Sample No.	Location :	7195 210 N	Type :	Float-Talus	Alteration :	WCB, WCL, WSI	Au	Ag	Co	Cu	La	U
		551 410 E	Strike Length Exp. :	m	Sulphides :	trPY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547030	Elevation:	1550 m	Sample Width :	m	Oxides :	None	<5	<0.2	36.	13.	40.	<10
	Orientation:	/	True Width :	m	Host :	Shale breccia/heterolithic breccia						
Comments : Mixed grab of talus; mainly brecciated shale.												

Property : OLYMPIC

NTS : 106C/13

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Sample No.	Location :	7195 220 N	Type :	Float-Talus	Alteration :	wCB, wCL, mSI	Au	Ag	Co	Cu	La	U
		551 315 E		Strike Length Exp. : m	Sulphides :	1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547031	Elevation:	1560 m		Sample Width : m	Oxides :	None	<5	<0.2	15.	7.	20.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Grab of heterolithic breccia in talus (50% talus heterolithic breccia, 50% brecciated sediments); noted rare malachite after chalcopryrite in breccia talus, none in sample.

Sample No.	Location :	7195 170 N	Type :	Grab	Alteration :	wCB, w-mCL, mSI	Au	Ag	Co	Cu	La	U
		551 200 E		Strike Length Exp. : m	Sulphides :	trPY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547032	Elevation:	1555 m		Sample Width : m	Oxides :	None	10.	<0.2	19.	30.	10.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : Grab of heterolithic breccia in talus (talus approximately 60:40, breccia:sediments); minor malachite staining noted in talus before station; none in sample.

Sample No.	Location :	7194 690 N	Type :	Grab	Alteration :	CA, sCB, mSI, mHE	Au	Ag	Co	Cu	La	U
		554 875 E		Strike Length Exp. : >50 m	Sulphides :	<1%CP, <1%PY, 2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547320	Elevation:	1520 m		Sample Width : 20 m	Oxides :	None	<5	<0.2	10.	35.	40.	<10
	Orientation:	025 / 90		True Width : 20 m	Host :	Composite-homolithic & heterolithic hematite breccia						

Comments : Grab sample was taken across breccia outcrop which is dominated by homolithic (dolomite) hematite breccia.

Sample No.	Location :	7194 630 N	Type :	Grab	Alteration :	wCA, sCB, wSI, wHE	Au	Ag	Co	Cu	La	U
		554 785 E		Strike Length Exp. : >50 m	Sulphides :	trCP, trPY, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547321	Elevation:	1520 m		Sample Width : 15 m	Oxides :	None	<5	<0.2	8.	9.	10.	<10
	Orientation:	/		True Width : m	Host :	>95% homolithic carbonate breccia						

Comments : Border zone breccia adjacent to Gillespie dolomite. This carbonate rich breccia appears to root heterolithic breccia.

Sample No.	Location :	7194 780 N	Type :	Grab	Alteration :	w-mCA, mCB, sCL, w-mSI, sHE	Au	Ag	Co	Cu	La	U
		554 630 E		Strike Length Exp. : 25 m	Sulphides :	<1%CP, 1-2%PY, 7-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547322	Elevation:	1590 m		Sample Width : 19.0 m	Oxides :	MC	<5	<0.2	27.	340.	20.	<10
	Orientation:	020 / 90		True Width : 19.0? m	Host :	Heterolithic hematite breccia						

Comments : Orientation of zone determined by dominant jointing pattern. Large block and smaller fragments of equigranular and leucocratic intrusive contained in breccia.

Sample No.	Location :	7194 840 N	Type :		Alteration :	mCB, vsCB, wMS, w-mSI, wHE	Au	Ag	Co	Cu	La	U
		554 935 E		Strike Length Exp. : >50 m	Sulphides :	1-2%CP, <1%PY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547323	Elevation:	1530 m		Sample Width : 20 m	Oxides :	MC	<5	<0.2	52.	1881.	0.	<10
	Orientation:	070 / 70 SE		True Width : 20 m	Host :	Crackled, well altered dolomitic sediments						

Comments : Sample taken from contact with chocolate brown siderite rich breccia.

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Sample No. Location : 7194 850 N Type : Grab Alteration : nCA, vsCB, wMS, w-mSI, wHE Au Ag Co Cu La U
 547324 Elevation: 554 920 E Strike Length Exp. : 10 m Sulphides : <1%CP, 1%PY, 1%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 1530 m Sample Width : 9.0 m Oxides : trMC <5 <0.2 17. 1150. 10. <10
 Orientation: 070 / 70 SE True Width : 9.0 m Host : Crackled, well altered dolomitic sediment
 Comments : Continuous sample north from 547323 into less altered and mineralized sediments.

Sample No. Location : 7194 910 N Type : Float Alteration : mCA, sCB, mSI, HE Au Ag Co Cu La U
 547325 Elevation: 554 850 E Strike Length Exp. : m Sulphides : 1%CP, 1%PY, 2%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 1525 m Sample Width : m Oxides : None <5 <0.2 27. 1041. 10. <10
 Orientation: / True Width : m Host : Crackled, well altered dolomitic sediment
 Comments : Sampled material is very similar to 547323, 547324. Abundant angular talus of same material at sample location. Composite grab of a number of talus pieces.

Sample No. Location : 7195 075 N Type : Float Alteration : wCA, wCP, w-mMS, m-sSI Au Ag Co Cu La U
 547326 Elevation: 554 910 E Strike Length Exp. : m Sulphides : 4%CP, 1%PY, 1-5%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 1480 m Sample Width : m Oxides : GE, JA, MC 45. 1.4 150. 2.14% 30. <10
 Orientation: / True Width : m Host : Well altered dolomitic sediment
 Comments : Composite grab of malachite talus. A number of other pieces in immediate area. Source must be well above as outcrop immediately above is unmineralized.

Sample No. Location : 7195 410 N Type : Grab Alteration : wCB, sCL, mSI, wHE Au Ag Co Cu La U
 547327 Elevation: 554 970 E Strike Length Exp. : >10 m Sulphides : 1-2%CP, 10-15%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 1500 m Sample Width : 4.0 m Oxides : MC 10. <0.2 35. 3767. 20. <10
 Orientation: 005 / 80 E True Width : 3.0 m Host : Chlorite-rich heterolithic breccia
 Comments : Sample from sediment contact through chlorite-rich border phase of breccia.

Sample No. Location : 7195 410 N Type : Grab Alteration : w-mCA, mCB, wCL, mSI, mHE Au Ag Co Cu La U
 547328 Elevation: 554 990 E Strike Length Exp. : >30 m Sulphides : <1%CP, <1%PY, 15-20%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 1495 m Sample Width : 8.0 m Oxides : None 20. <0.2 47. 188. 30. <10
 Orientation: 005 / 80 E True Width : 5.0 m Host : Heterolithic hematite breccia
 Comments : Sample taken adjacent to 547327; although no malachite staining or strong chlorite alteration is apparent.

Sample No. Location : 7194 800 N Type : Grab Alteration : CA, CB Au Ag Co Cu La U
 547451 Elevation: 554 910 E Strike Length Exp. : m Sulphides : <1%CP, trPY, 3-5%HS (ppb) (ppm) (ppm) (ppm) (ppm) (ppm)
 Orientation: 5000 ft Sample Width : 5 m Oxides : mHE 15. <0.2 35. 1024. 90. <10
 Orientation: / True Width : m Host : Carbonate breccia
 Comments : Carbonate breccia - outcrop.

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Sample No.	Location :	7194 850 N	Type :	Grab	Alteration :	sCB, wCL, sHE	Au	Ag	Co	Cu	La	U
		554 970 E		Strike Length Exp. :	m	Sulphides :	1%CP, <1%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547452	Elevation:	4950 ft		Sample Width :	5 m	Oxides :	mMC	<5	<0.2	68.	5055.	10.
	Orientation:	/		True Width :	5 m	Host :	Fine-grained carbonate breccia					<10

Comments : Border phase carbonate breccia sampled in creek draining into west end of tarn.

Sample No.	Location :	7194 850 N	Type :	Grab	Alteration :	sCB, sHE	Au	Ag	Co	Cu	La	U
		554 970 E		Strike Length Exp. :	m	Sulphides :	1-2%CP, <1%PO, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547453	Elevation:	4950 ft		Sample Width :	1 m	Oxides :	None	<5	<0.2	156.	1781.	0.
	Orientation:	/		True Width :	m	Host :	Fine-grained carbonate breccia					<10

Comments : Border phase similar to 547452 with stronger specular hematite and better chalcopryrite mineralization.

Sample No.	Location :	7195 015 N	Type :	Grab	Alteration :	sCB, wHE	Au	Ag	Co	Cu	La	U
		554 990 E		Strike Length Exp. :	m	Sulphides :	1-2%CP, <1%PY, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547454	Elevation:	4700 ft		Sample Width :	50 m	Oxides :	mJA, wMC	5.	0.6	71.	9570.	20.
	Orientation:	/		True Width :	m	Host :	Carbonate breccia					<10

Comments : Carbonate breccia with disseminated chalcopryrite. Grab sample taken from subcrop.

Sample No.	Location :	7195 040 N	Type :	Float	Alteration :	CA, sCL, wHE, sSI	Au	Ag	Co	Cu	La	U
		555 000 E		Strike Length Exp. :	m	Sulphides :	25%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547455	Elevation:	4700 ft		Sample Width :	m	Oxides :	wAZ, sJA, sMC	190.	5.8	3621.	8.42%	20.
	Orientation:	/		True Width :	m	Host :	Carbonate breccia					<10

Comments : High grade boulder in 547454 zone, 2.0 metres from flag location.

Sample No.	Location :	7195 050 N	Type :	Float	Alteration :	sHE, CB	Au	Ag	Co	Cu	La	U
		555 150 E		Strike Length Exp. :	m	Sulphides :	25-30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547456	Elevation:	4700 ft		Sample Width :	m	Oxides :	None	10.	<0.2	26.	418.	0.
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					<10

Comments : Grab from several rocks in talus.

Sample No.	Location :	7195 590 N	Type :	Float	Alteration :	sHE, CB	Au	Ag	Co	Cu	La	U
		555 280 E		Strike Length Exp. :	m	Sulphides :	2-3%CP, 25-30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
547457	Elevation:	4650 ft		Sample Width :	m	Oxides :	MC	45.	0.8	32.	7904.	0.
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					<10

Comments : Sample from one rock.

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Sample No.	Location :	7195 630 N	Type :	Float	Alteration :	sHE, CB, sCL	Au	Ag	Co	Cu	La	U
		555 300 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547458	Elevation:	4650 ft		Sample Width :		m	15.	0.6	47.	4462.	0.	<10
	Orientation:	/		True Width :		m						
Comments : Sample from a single rock, similar in nature to 547457.												

Sample No.	Location :	7194 940 N	Type :	Grab	Alteration :	sCB	Au	Ag	Co	Cu	La	U
		555 740 E		Strike Length Exp. :		40 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547914	Elevation:	1460 m		Sample Width :		m	<5	1.2	22.	106.	10.	20.
	Orientation:	/		True Width :		m						
Comments : Appears to be mineral weak.												

Sample No.	Location :	7191 520 N	Type :	Float	Alteration :	CA	Au	Ag	Co	Cu	La	U
		553 600 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547915	Elevation:	1500 m		Sample Width :		m	<5	4.2	46.	0.97%	0.	40.
	Orientation:	/		True Width :		m						
Comments : Fair amount of siltstone fragments with chalcopryrite in calcite fractures in surrounding matrix.												

Sample No.	Location :	7191 540 N	Type :	Select	Alteration :	HE	Au	Ag	Co	Cu	La	U
		553 780 E		Strike Length Exp. :		5 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547916	Elevation:	1495 m		Sample Width :		20 cm	5.	<0.2	37.	66.	90.	<10
	Orientation:	145 /		True Width :		20 m						
Comments : Zone altered with disseminated brannerite and disseminated pyrite; zone 3.0 metres in width.												

Sample No.	Location :	7191 610 N	Type :	Select	Alteration :	HE	Au	Ag	Co	Cu	La	U
		553 770 E		Strike Length Exp. :		15 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547917	Elevation:	1470 m		Sample Width :		40 cm	260.	1.0	85.	7.72%	20.	30.
	Orientation:	145 /		True Width :		40 m						
Comments : In zone associated with uranium occurrence - creek course; zone 2.0 metres in width.												

Sample No.	Location :	7191 825 N	Type :	Select/float	Alteration :	HE, KF?	Au	Ag	Co	Cu	La	U
		553 620 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547918	Elevation:	1485 m		Sample Width :		m	10.	<0.2	15.	1647.	10.	20.
	Orientation:	/		True Width :		m						
Comments : Subcrop spread across slope directly below outcrop.												

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Sample No.	Location :	7191 910 N	Type :	Select	Alteration :	CB, HE, KF?	Au	Ag	Co	Cu	La	U
		553 640 E	Strike Length Exp. :	m	Sulphides :	1%CP, 5-7%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547919	Elevation:	1490 m	Sample Width :	15 cm	Oxides :	None	25.	<0.2	12.	4056.	30.	<10
	Orientation:	/	True Width :	15 cm	Host :	Heterolithic breccia						

Comments : Appears that most fragmented breccia tends to carry best mineralization.

Sample No.	Location :	7192 000 N	Type :	Float	Alteration :	wHE, KF?, CB	Au	Ag	Co	Cu	La	U
		553 670 E	Strike Length Exp. :	m	Sulphides :	2%CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547920	Elevation:	1470 m	Sample Width :	30 m	Oxides :	None	95.	<0.2	14.	5960.	120.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Widespread subcrop directly below outcrop.

Sample No.	Location :	7192 675 N	Type :	Float	Alteration :	None	Au	Ag	Co	Cu	La	U
		553 410 E	Strike Length Exp. :	m	Sulphides :	BO?, CP, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
547921	Elevation:	1375 m	Sample Width :	m	Oxides :	MC, GE	365.	20.0	209.	4.66%	40.	20.
	Orientation:	/	True Width :	m	Host :	Hematite breccia						

Comments : Along main creek 400m upstream from junction of main and tributary.

Sample No.	Location :	7192 000 N	Type :	Float	Alteration :	HE	Au	Ag	Co	Cu	La	U
		553 350 E	Strike Length Exp. :	>20 m	Sulphides :	PY?	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548051	Elevation:	1680 m	Sample Width :	m	Oxides :	MG	65.	<0.2	16.	1.37%	40.	10.
	Orientation:	000 / 25 W	True Width :	m	Host :	Banded iron formation in dolomite						

Comments : 10m true width bed of alternating hematite and magnetite bands, generally <2cm wide, +/- dolomite bands; strike length unknown.

Sample No.	Location :	7191 610 N	Type :	Float	Alteration :		Au	Ag	Co	Cu	La	U
		553 330 E	Strike Length Exp. :	m	Sulphides :	1%CP, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548052	Elevation:	1560 m	Sample Width :	m	Oxides :	MC	40.	<0.2	91.	2401.	20.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : 1% fine-grained disseminated and fracture controlled chalcopyrite +/- malachite weathering, in deep maroon, hematitic, heterolithic breccia. Didn't notice much malachite on rocks in this area.

Sample No.	Location :	7190 460 N	Type :	Float	Alteration :		Au	Ag	Co	Cu	La	U
		556 460 E	Strike Length Exp. :	m	Sulphides :	>50%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548053	Elevation:	1590 m	Sample Width :	m	Oxides :	GE, JA	<5	<0.2	0.	102.	10.	10.
	Orientation:	/	True Width :	m	Host :	Argillite						

Comments : Massive pyrite +/- quartz vein, stockwork and breccia matrix to 20cm wide; several occurrences over >500m along claim line. Best showings on Olympic claims 75 & 76.

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Sample No.	Location :	7190 510 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		557 050 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548076	Elevation:	4925 ft	Sample Width :	m	Oxides :	wGE	5.	<0.2	14.	109.	0.	20.
	Orientation:	/	True Width :	m	Host :	Brecciated shale						

Comments : Folded to brecciated, dark grey, brecciation from weak "crackle" breccia to fragment rotation. Matrix (tan weathering carbonate-ankerite) poor; noted chalcopyrite locally - sampled separately in 548077.

Sample No.	Location :	7190 510 N	Type :	Select	Alteration :		Au	Ag	Co	Cu	La	U
		557 050 E	Strike Length Exp. :	m	Sulphides :	1%CP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548077	Elevation:	4925 ft	Sample Width :	m	Oxides :	wAZ, wMC	15.	2.0	42.	1982.	0.	10.
	Orientation:	/	True Width :	m	Host :	Shale breccia						

Comments : Sample site as 548076. Noted azurite/malachite over 1x2m area; chalcopyrite and pyrite fine-grained patchy disseminated in and around carbonate matrix and stringers.

Sample No.	Location :	7190 490 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 930 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548078	Elevation:	4890 ft	Sample Width :	m	Oxides :	GE	15.	<0.2	11.	52.	20.	<10
	Orientation:	/	True Width :	m	Host :	Shale breccia						

Comments : Similar to 548076, although varies from shale to heterolithic breccia with dark grey shale-like matrix; fragments <1->5cm diameter, fine-grained sediments including shale.

Sample No.	Location :	7190 610 N	Type :	Grab	Alteration :	CB, KF?, MS?, SI	Au	Ag	Co	Cu	La	U
		556 950 E	Strike Length Exp. :	m	Sulphides :	1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548079	Elevation:	4590 ft	Sample Width :	m	Oxides :	GE	30.	<0.2	6.	9.	0.	20.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Pinkish-buff weathering, light tan fresh fine-grained matrix (sericite?-quartz-ankerite?) with subrounded very fine-grained lithic fragments to 5cm diameter (most <1cm); grades to aphanitic maroon unit +/- ghostly fragments.

Sample No.	Location :	7190 470 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 850 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548080	Elevation:	4820 ft	Sample Width :	m	Oxides :	GE	10.	<0.2	10.	11.	40.	<10
	Orientation:	/	True Width :	m	Host :	Shale breccia						

Comments : Similar to 548078. Noted 6cm wide ankerite-quartz vein in outcrop; no copper mineralization noted.

Sample No.	Location :	7190 490 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 740 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548081	Elevation:	4820 ft	Sample Width :	m	Oxides :	wGE	10.	<0.2	9.	16.	40.	<10
	Orientation:	060 / 40 SE	True Width :	m	Host :	Shale breccia						

Comments : As 548078. Sample from felsensmeer at outcrop. Well bedded shale just below sample.

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Sample No.	Location :	7190 500 N	Type :	Grab	Alteration :	QZ	Au	Ag	Co	Cu	La	U
		556 620 E	Strike Length Exp. :	m	Sulphides :	1-2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548082	Elevation:	4820 ft	Sample Width :	m	Oxides :	GE, JA	<5	<0.2	9.	10.	0.	40.
	Orientation:	/	True Width :	m	Host :	Dolomite (or calcareous sediments)						

Comments : Dark grey, frequent quartz +/- pyrite veinlets (a few pieces in bag), sporadic massive pyrite +/- quartz veins, patches, fracture fillings. Sample 15m NE of claim post No. 1 claims - Olympic 77 & 78.

Sample No.	Location :	7190 500 N	Type :	Select	Alteration :	SI	Au	Ag	Co	Cu	La	U
		556 620 E	Strike Length Exp. :	1.0 m	Sulphides :	20%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548083	Elevation:	4820 ft	Sample Width :	10 cm	Oxides :	mGE, mJA	<5	5.2	17.	36.	0.	30.
	Orientation:	/	True Width :	10 cm	Host :	Dolomite (or calcareous sediments)						

Comments : Sample location as 548082; select of massive pyrite as patchy fracture fillings and veinlets restricted to 10cm wide zone; one of several massive pyrite occurrences in area. Silica bleached light grey.

Sample No.	Location :	7190 480 N	Type :	Grab	Alteration :	None	Au	Ag	Co	Cu	La	U
		556 530 E	Strike Length Exp. :	m	Sulphides :	2%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548084	Elevation:	4920 ft	Sample Width :	m	Oxides :	m-sGE, m-sJA	<5	1.8	10.	14.	0.	60.
	Orientation:	/	True Width :	m	Host :	Dolomite						

Comments : Frequent rusty fractures and pyrite veinlets; veinlets noted to 4cm wide; minor disseminated and stringer pyrite.

Sample No.	Location :	7190 510 N	Type :	Float	Alteration :	CB, SI?	Au	Ag	Co	Cu	La	U
		556 450 E	Strike Length Exp. :	m	Sulphides :	<1%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548085	Elevation:	4920 ft	Sample Width :	m	Oxides :	GE, JA	5.	0.6	12.	35.	0.	50.
	Orientation:	/	True Width :	m	Host :	Calcareous sediments (dolomite)						

Comments : Assortment of talus including pale tan calcareous sediment, minor dark grey sediment with 5% pyrite fracture filling and minor goethite boxwork. Bleached.

Sample No.	Location :	7190 540 N	Type :	Grab	Alteration :	QZ	Au	Ag	Co	Cu	La	U
		556 390 E	Strike Length Exp. :	30 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548086	Elevation:	5000 ft	Sample Width :	10 cm	Oxides :	GE	15.	6.4	10.	62.	0.	70.
	Orientation:	010 / 60 E	True Width :	.1 m	Host :	Dolomite						

Comments : One of several outcroppings of massive goethite boxwork after pyrite up to >2.0m wide; appears near contact with dolomite and shale breccia; noted limonitic and milky white quartz and carbonate veins and fracture filling in sample.

Sample No.	Location :	7190 620 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 400 E	Strike Length Exp. :	m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548087	Elevation:	4950 ft	Sample Width :	m	Oxides :	wGE	10.	0.2	9.	37.	30.	<10
	Orientation:	/	True Width :	m	Host :	Shale breccia						

Comments : As 548078, no copper mineralization noticed, well fractured.

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Sample No.	Location :	7190 730 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 385 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548088	Elevation:	4820 ft		Sample Width :		m	5.	1.4	10.	397.	10.	10.
	Orientation:	/		True Width :		m						
Host : Brecciated shale												

Comments : Folded to crackle-brecciated shale with minor malachite noted on a few pieces +/- minor disseminated fine-grained chalcopyrite.
Noted several malachite staining on outcrops from here to last sample.

Sample No.	Location :	7190 660 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 330 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548089	Elevation:	4930 ft		Sample Width :		m	15.	<0.2	24.	77.	60.	<10
	Orientation:	/		True Width :		m						
Host : Heterolithic/shale breccia												

Comments : Similar to 548078, mainly heterolithic. Noted very fine-grained disseminated chalcopyrite in pieces.

Sample No.	Location :	7190 700 N	Type :	Grab	Alteration :	CB, CL, MR?, MS, SI	Au	Ag	Co	Cu	La	U
		556 240 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548090	Elevation:	4760 ft		Sample Width :		m	15.	0.4	38.	168.	0.	10.
	Orientation:	/		True Width :		m						
Host : Heterolithic breccia												

Comments : Pale green, faint breccia texture with possible assorted lithic fragments; pyrite fine-grained disseminated, chalcopyrite in carbonate stringers. (clearly heterolithic shale breccia 10m west)

Sample No.	Location :	7190 780 N	Type :	Grab	Alteration :	CB, MS?, SI	Au	Ag	Co	Cu	La	U
		556 120 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548091	Elevation:	4625 ft		Sample Width :		m	10.	0.2	20.	111.	40.	<10
	Orientation:	/		True Width :		m						
Host : Heterolithic breccia												

Comments : Pale green autobrecciated sediments to heterolithic breccia; fragments abundant <1->5cm, unit appears to continue westward.

Sample No.	Location :	7190 850 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		556 050 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548092	Elevation:	4670 ft		Sample Width :		m	20.	<0.2	14.	33.	10.	<10
	Orientation:	/		True Width :		m						
Host :												

Comments : Assorted talus, source nearby; crystal type including buff weathered, light green calcareous siltstone; same crackle breccia with ankerite; heterolithic siltstone (light green) and shale (black) breccia.

Sample No.	Location :	7190 940 N	Type :	Grab	Alteration :	CB	Au	Ag	Co	Cu	La	U
		555 940 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548093	Elevation:	4670 ft		Sample Width :		m	15.	<0.2	23.	57.	60.	<10
	Orientation:	090 / 82 S		True Width :		m						
Host : Maroon hematitic brecciated fine-grained sediments												

Comments : Deep maroon, weakly fractured to highly fractured and brecciated sediments; trace of fine-grained chalcopyrite in carbonate stringer; fractured and breccia looks tectonic.

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Sample No.	Location :	7190 970 N	Type :	Float	Alteration :	MS?, SI?	Au	Ag	Co	Cu	La	U
		555 880 E	Strike Length Exp. :	m	Sulphides :	trPY, <1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548094	Elevation:	4700 ft	Sample Width :	m	Oxides :	None	<5	<0.2	16.	14.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic and homolithic breccias						

Comments : From sample 548093 - grades into true breccia with clear heterolithic fragments to >20cm diameter, variably coloured maroon, grey, light green. Sample an assortment of talus.

Sample No.	Location :	7190 970 N	Type :	Float	Alteration :	QZ?	Au	Ag	Co	Cu	La	U
		555 860 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 1-2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548095	Elevation:	4700 ft	Sample Width :	m	Oxides :	GE, MC	15.	0.6	15.	1054.	30.	<10
	Orientation:	/	True Width :	m	Host :	Maroon homolithic breccia						

Comments : Breccia similar to previous samples; select of talus material (source nearby) with copper moss, which contains fine-grained disseminated and patchy fracture controlled chalcopyrite +/- minor malachite.

Sample No.	Location :	7191 050 N	Type :	Float	Alteration :	CB, KF?, MS?, SI	Au	Ag	Co	Cu	La	U
		555 810 E	Strike Length Exp. :	m	Sulphides :	wPY, tr->1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548096	Elevation:	4510 ft	Sample Width :	m	Oxides :	GE	5.	0.2	37.	26.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Sample of talus, source nearby; maroon, grey, pinkish-grey and buff weathered; classic heterolithic breccia to jumbled buff weathered sediments; silica and hematite most prominent matrix minerals.

Sample No.	Location :	7190 970 N	Type :	Grab	Alteration :	CB, SI	Au	Ag	Co	Cu	La	U
		555 770 E	Strike Length Exp. :	m	Sulphides :	<1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548097	Elevation:	4520 ft	Sample Width :	m	Oxides :	GE	80.	<0.2	17.	56.	160.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Grey to pinkish-grey weathered; light to dark grey, angular-subrounded fragments <1->10cm, <1% specular hematite - massive (rare), disseminated and patchy; no copper mineralization noted.

Sample No.	Location :	7190 880 N	Type :	Grab	Alteration :	CB, QZ	Au	Ag	Co	Cu	La	U
		555 700 E	Strike Length Exp. :	m	Sulphides :	1-2%MG, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548098	Elevation:	4505 ft	Sample Width :	m	Oxides :	None	<5	<0.2	16.	120.	50.	<10
	Orientation:	/	True Width :	m	Host :	Brecciated sediments						

Comments : Deep maroon to dark grey, fractured to autobrecciated very fine-grained sediments; heterolithic breccia approximately 50m northeast.

Sample No.	Location :	7191 000 N	Type :	Talus	Alteration :	None	Au	Ag	Co	Cu	La	U
		555 000 E	Strike Length Exp. :	m	Sulphides :	5%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548099	Elevation:	4855 ft	Sample Width :	m	Oxides :	sGE, sJA	<5	21.4	26.	176.	0.	10.
	Orientation:	/	True Width :	m	Host :	Dolomite						

Comments : Rusty frothy white and grey quartz and goethite boxwork with 5% fine-grained disseminated pyrite. Select several pieces from talus (source nearby).

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Sample No.	Location :	7191 860 N	Type :	Grab	Alteration :	CB, SI	Au	Ag	Co	Cu	La	U
		554 370 E		Strike Length Exp. :	Sulphides :	trPY, 1-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548100	Elevation:	4850 ft		Sample Width :	Oxides :	None	5.	<0.2	9.	8.	40.	<10
	Orientation:	/		True Width :	Host :	Heterolithic breccia						

Comments : Sample at corner post No. 2 - Olympic 61 & 62, at contact between breccia (west) and dolomite; deep maroon, fragment-rich, trace pyrite in matrix.

Sample No.	Location :	7193 880 N	Type :	Grab	Alteration :	sCB, mHE	Au	Ag	Co	Cu	La	U
		553 390 E		Strike Length Exp. :	Sulphides :	<1%MG, <1%PY, mHS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548118	Elevation:	5775 ft		Sample Width :	Oxides :	None	15.	<0.2	17.	108.	30.	<10
	Orientation:	/		True Width :	Host :	Homolithic breccia						

Comments : Top end of breccia zone, contact area.

Sample No.	Location :	7193 830 N	Type :	Grab	Alteration :	mCB, mHE	Au	Ag	Co	Cu	La	U
		553 350 E		Strike Length Exp. :	Sulphides :	trPY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548119	Elevation:	5650 ft		Sample Width :	Oxides :	None	10.	<0.2	10.	38.	50.	<10
	Orientation:	/		True Width :	Host :	Homolithic (shale) breccia						

Comments : Taken in middle area of breccia zone.

Sample No.	Location :	7193 790 N	Type :	Grab	Alteration :	sCB, sHE	Au	Ag	Co	Cu	La	U
		553 310 E		Strike Length Exp. :	Sulphides :	<1%PY, 3-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548120	Elevation:	5625 ft		Sample Width :	Oxides :	None	5.	<0.2	12.	10.	80.	<10
	Orientation:	/		True Width :	Host :	Homolithic breccia/crackled sediments						

Comments : Near west side of breccia, contact area.

Sample No.	Location :	7193 600 N	Type :	Float	Alteration :	HE, CB	Au	Ag	Co	Cu	La	U
		553 240 E		Strike Length Exp. :	Sulphides :	<1%CP, 1%PY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548121	Elevation:	5375 ft		Sample Width :	Oxides :	None	15.	<0.2	32.	733.	20.	10.
	Orientation:	/		True Width :	Host :	Heterolithic breccia						

Comments : Grab for 1m in top contact area.

Sample No.	Location :	7193 580 N	Type :	Float	Alteration :	wCL, wMS, sHE, CB	Au	Ag	Co	Cu	La	U
		553 230 E		Strike Length Exp. :	Sulphides :	<1%CP, 1-2%PY, 10-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548122	Elevation:	5375 ft		Sample Width :	Oxides :	None	10.	<0.2	26.	252.	70.	<10
	Orientation:	/		True Width :	Host :	Heterolithic breccia						

Comments : Grab from one talus rock.

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Sample No.	Location :	7193 550 N	Type :	Grab	Alteration :	sCB, HE	Au	Ag	Co	Cu	La	U
		553 190 E	Strike Length Exp. :	m	Sulphides :	<1%CP, 1%PY, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548123	Elevation:	5375 ft	Sample Width :	1 m	Oxides :	None	10.	<0.2	19.	20.	30.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Taken in outcrop near west contact.

Sample No.	Location :	7193 520 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		553 220 E	Strike Length Exp. :	m	Sulphides :	1-2%CP, <1%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548124	Elevation:	5275 ft	Sample Width :	m	Oxides :	sJA	50.	<0.2	231.	4994.	10.	20.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Mineralization disseminated in gouge as well as blebs in calcite, ankerite stringers and siderite.

Sample No.	Location :	7193 510 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		553 390 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548125	Elevation:	5275 ft	Sample Width :	m	Oxides :	wMC	10.	<0.2	17.	30.	60.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Talus below outcrop. Shale is dominant fragment type.

Sample No.	Location :	7193 360 N	Type :	Float	Alteration :	CB, mHE	Au	Ag	Co	Cu	La	U
		553 370 E	Strike Length Exp. :	m	Sulphides :	1-2%CP, <1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548126	Elevation:	5175 ft	Sample Width :	50 cm	Oxides :	None	45.	<0.2	107.	5377.	50.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Subcrop.

Sample No.	Location :	7192 250 N	Type :	Grab	Alteration :	sCB, sHE	Au	Ag	Co	Cu	La	U
		554 030 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548127	Elevation:	4225 ft	Sample Width :	50 cm	Oxides :	None	10.	<0.2	10.	10.	40.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia?						

Comments : Representative grab from outcrop.

Sample No.	Location :	7192 180 N	Type :	Grab	Alteration :	CA, wCB, sHE	Au	Ag	Co	Cu	La	U
		553 970 E	Strike Length Exp. :	m	Sulphides :	5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548128	Elevation:	4300 ft	Sample Width :	1 m	Oxides :	wHE	10.	<0.2	23.	16.	50.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia?						

Comments : Grab from cliff face.

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Sample No.	Location :	7192 170 N	Type :	Grab	Alteration :	sCB, mHE	Au	Ag	Co	Cu	La	U
		553 950 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548129	Elevation:	4305 ft	Sample Width :	50 cm	Oxides :	None	15.	<0.2	25.	1044.	40.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Chalcopyrite mostly with ankerite. Some dissemination. Grab from outcrop 15m above 548128.

Sample No.	Location :	7191 960 N	Type :	Grab	Alteration :	mCA, sCL, sCB	Au	Ag	Co	Cu	La	U
		553 850 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548130	Elevation:	4525 ft	Sample Width :	1 m	Oxides :	None	<5	<0.2	28.	3.	60.	<10
	Orientation:	/	True Width :	m	Host :	Homolithic breccia						

Comments : Grab from outcrop.

Sample No.	Location :	7191 380 N	Type :	Select	Alteration :	sCB, sHE	Au	Ag	Co	Cu	La	U
		553 700 E	Strike Length Exp. :	m	Sulphides :	5-10%PY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548131	Elevation:	5000 ft	Sample Width :	25 cm	Oxides :	mGE, sJA	165.	0.6	140.	210.	10.	10.
	Orientation:	/	True Width :	25 cm	Host :	Dolomite-breccia contact						

Comments : Small mineralized pod on dolomite breccia contact in crackle zone.

Sample No.	Location :	7191 390 N	Type :	Grab	Alteration :	sCA, sCB, sHE	Au	Ag	Co	Cu	La	U
		553 750 E	Strike Length Exp. :	m	Sulphides :	<1%CP, <1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548132	Elevation:	5150 ft	Sample Width :	50 cm	Oxides :	None	25.	<0.2	44.	8.	60.	<10
	Orientation:	/	True Width :	2-3 m	Host :	Heterolithic breccia?						

Comments : Heavy white carbonate coating. Fine-grained disseminated pyrite and chalcopyrite. Grab from outcrop.

Sample No.	Location :	7191 430 N	Type :	Grab	Alteration :	sHE	Au	Ag	Co	Cu	La	U
		553 800 E	Strike Length Exp. :	m	Sulphides :	1%CP, <1%PY, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548133	Elevation:	4975 ft	Sample Width :	50 cm	Oxides :	None	5.	<0.2	28.	1705.	30.	<10
	Orientation:	/	True Width :	50 cm	Host :	Dolomite crackle zone						

Comments : Approximately 3m radius block of this pink breccia within the darker breccia. Grab from 3.0 wide zone.

Sample No.	Location :	7191 570 N	Type :	Float	Alteration :	mCB, sHE	Au	Ag	Co	Cu	La	U
		553 880 E	Strike Length Exp. :	m	Sulphides :	1%CP, <1%PY, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548134	Elevation:	5000 ft	Sample Width :	m	Oxides :	None	15.	<0.2	12.	597.	50.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Taken in talus, just below cliffs. Additional chalcopyrite noted in talus at this location. Sample from one rock.

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Sample No.	Location :	7191 670 N	Type :	Float	Alteration :	CB, HE	Au	Ag	Co	Cu	La	U
		553 960 E		Strike Length Exp. :	Sulphides :	trPY, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548135	Elevation:	4825 ft		Sample Width :	Oxides :	None	<5	<0.2	17.	6.	20.	<10
	Orientation:	/		True Width :	Host :	Heterolithic breccia						

Comments : Subcrop below cliffs.

Sample No.	Location :	7191 680 N	Type :	Grab	Alteration :	wQZ, vsSI, wHE	Au	Ag	Co	Cu	La	U
		553 360 E		Strike Length Exp. :	Sulphides :	BO?, 1-2%CP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548225	Elevation:	1550 m		Sample Width :	Oxides :	trMC	30.	<0.2	110.	999.	40.	<10
	Orientation:	/		True Width :	Host :	Heterolithic hematite breccia						

Comments : Breccia has a purplish colour. Clasts are mostly <1cm in size, subrounded and matrix-supported. Chalcopyrite occurs as fracture fillings and disseminations.

Sample No.	Location :	7191 640 N	Type :	Grab	Alteration :	wCA, mCB, wSI	Au	Ag	Co	Cu	La	U
		553 280 E		Strike Length Exp. :	Sulphides :	2-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548226	Elevation:	1555 m		Sample Width :	Oxides :	None	10.	<0.2	14.	30.	0.	10.
	Orientation:	/		True Width :	Host :	Homolithic (dolomite) crackle breccia						

Comments : Specular hematite occurs finely disseminated and along fractures. Heterolithic breccia is not exposed in sample area.

Sample No.	Location :	7191 610 N	Type :	Grab	Alteration :	mCA, mCB, mSI	Au	Ag	Co	Cu	La	U
		553 190 E		Strike Length Exp. :	Sulphides :	<1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548227	Elevation:	1590 m		Sample Width :	Oxides :	None	10.	<0.2	9.	12.	0.	<10
	Orientation:	/		True Width :	Host :	Homolithic (dolomite) crackle breccia						

Comments : Sample taken 80m westerly along base of cliffs from 548227. Brecciation is much weaker as is specular hematite mineralization.

Sample No.	Location :	7191 750 N	Type :	Grab	Alteration :	mCA, mCB, wMS, vsSI, HE	Au	Ag	Co	Cu	La	U
		553 420 E		Strike Length Exp. :	Sulphides :	1-2%CP, 20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548228	Elevation:	1520 m		Sample Width :	Oxides :	None	15.	<0.2	44.	298.	20.	<10
	Orientation:	075 / 80 NW		True Width :	Host :	Heterolithic hematite breccia						

Comments : A platy cleavage is imparted on the breccia. No copper secondaries.

Sample No.	Location :	7191 820 N	Type :	Grab	Alteration :	mCA, mCB, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 480 E		Strike Length Exp. :	Sulphides :	trCP, 15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548229	Elevation:	1530 m		Sample Width :	Oxides :	None	20.	<0.2	27.	120.	20.	10.
	Orientation:	/		True Width :	Host :	Heterolithic hematite breccia						

Comments : Increase in clast size in breccia which is clast supported - approaching dolomite contact.

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Sample No.	Location :	7191 920 N	Type :	Grab	Alteration :	mCA, mCB, SI, HE	Au	Ag	Co	Cu	La	U
		553 520 E		Strike Length Exp. :	>50 m	Sulphides :	<1%CP, <1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548230	Elevation:	1530 m		Sample Width :	1.5x3 m	Oxides :	None	<5	<0.2	45.	362.	30.
	Orientation:	/		True Width :	m	Host :	Heterolithic hematite breccia					

Comments : No copper oxides. 100m north along bluff from 548229.

Sample No.	Location :	7191 920 N	Type :	Float	Alteration :	sSI	Au	Ag	Co	Cu	La	U
		553 520 E		Strike Length Exp. :	m	Sulphides :	40%MG	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548231	Elevation:	1530 m		Sample Width :	m	Oxides :	None	10.	<0.2	1.	4.	0.
	Orientation:	/		True Width :	m	Host :	Banded iron formation in dolomite					

Comments : Angular float found at same location as 584232. Banded magnetite ((0.5-1.0cm) and jasper (1-3mm) with dolomite unit.
Source cannot be far upslope.

Sample No.	Location :	7192 010 N	Type :	Grab	Alteration :	mCA, mCB, wMS, mSI, wHE	Au	Ag	Co	Cu	La	U
		553 560 E		Strike Length Exp. :	>50 m	Sulphides :	trPY, 15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548232	Elevation:	1520 m		Sample Width :	5.0 m	Oxides :	None	10.	<0.2	29.	142.	30.
	Orientation:	/		True Width :	m	Host :	Homolithic (dolomite) hematite breccia					

Comments : Sample location 100m north along contour from 584231.

Sample No.	Location :	7192 110 N	Type :	Grab	Alteration :	mCA, w-mCB, mSI	Au	Ag	Co	Cu	La	U
		553 560 E		Strike Length Exp. :	>50 m	Sulphides :	trPY, 15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548233	Elevation:	1570 m		Sample Width :	5.0 m	Oxides :	None	15.	<0.2	25.	45.	60.
	Orientation:	040 / 70 NW		True Width :	m	Host :	Heterolithic hematite breccia					

Comments : No copper oxides present. Breccia has a platy cleavage.

Sample No.	Location :	7192 390 N	Type :	Grab	Alteration :	wCA, wQZ	Au	Ag	Co	Cu	La	U
		553 350 E		Strike Length Exp. :	>50 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548234	Elevation:	1440 m		Sample Width :	2x2 m	Oxides :	None	10.	<0.2	15.	23.	0.
	Orientation:	045 / 25 NW		True Width :	m	Host :	Dolomite					

Comments : Stockwork (quartz) veined dolomite on hanging wall of hematite breccia.

Sample No.	Location :	7192 380 N	Type :	Grab	Alteration :	wCA, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 430 E		Strike Length Exp. :	m	Sulphides :	<1%CP, 1%PY, 15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548235	Elevation:	1410 m		Sample Width :	4x1.5 m	Oxides :	trMC	15.	<0.2	36.	374.	20.
	Orientation:	/		True Width :	m	Host :	Homolithic (dolomite) hematite breccia					

Comments : First sample within breccia on this contour line.

Property : OLYMPIC

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Sample No.	Location :	7192 360 N	Type :	Grab	Alteration :	mCA, mCB, wMS, sSI, w-mHE	Au	Ag	Co	Cu	La	U
		553 510 E		Strike Length Exp. :	>50 m	Sulphides :	<1%CP, 1%PY, 15-20%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548236	Elevation:	1415 m		Sample Width :	6 m	Oxides :	trMC	10.	<0.2	33.	1312.	20.
	Orientation:	/		True Width :	m	Host :	Heterolithic hematite breccia					

Comments : Sample taken 100m east from 548235.

Sample No.	Location :	7192 330 N	Type :	Grab	Alteration :	mCA, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 610 E		Strike Length Exp. :	>50 m	Sulphides :	1%CP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548237	Elevation:	1380 m		Sample Width :	5.0 m	Oxides :	MC	35.	0.6	29.	3219.	60.
	Orientation:	/		True Width :	m	Host :	Heterolithic hematite breccia					

Comments :

Sample No.	Location :	7192 330 N	Type :	Grab	Alteration :	sKF?, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 630 E		Strike Length Exp. :	>20 m	Sulphides :	1%BO, 2%CP, 10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548238	Elevation:	1378 m		Sample Width :	5.0 m	Oxides :	trMC	40.	0.6	21.	3238.	60.
	Orientation:	025 / 80 E		True Width :	4.0 m	Host :	Pink heterolithic hematite breccia					

Comments : Pink altered (KF) zone within heterolithic breccia with disseminated and stringers of chalcopyrite and bornite.

Sample No.	Location :	7192 340 N	Type :	Grab	Alteration :	wCA, w-mCB, mMS, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 720 E		Strike Length Exp. :	>10 m	Sulphides :	30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548239	Elevation:	1330 m		Sample Width :	3.0 m	Oxides :	None	<5	<0.2	23.	78.	80.
	Orientation:	/		True Width :	m	Host :	Heterolithic hematite breccia					

Comments : No visible sulphides. Copper lichen on outcrop above. Breccia has sheared appearance.

Sample No.	Location :	7192 270 N	Type :	Grab	Alteration :	wSI	Au	Ag	Co	Cu	La	U
		553 790 E		Strike Length Exp. :	5.0 m	Sulphides :	1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548240	Elevation:	1315 m		Sample Width :	4.0 m	Oxides :	None	<5	<0.2	13.	14.	40.
	Orientation:	/		True Width :	m	Host :	Homolithic (dolomite) breccia					

Comments : Pass through breccia into dolomite host. Mosaic breccia pattern visible on weathered surface.

Sample No.	Location :	7192 160 N	Type :	Grab	Alteration :	mCA, wCB, sSI, wHE	Au	Ag	Co	Cu	La	U
		553 800 E		Strike Length Exp. :	5.0 m	Sulphides :	<1%CP, 40%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548241	Elevation:	1300 m		Sample Width :	5.0 m	Oxides :	None	15.	<0.2	13.	115.	80.
	Orientation:	/		True Width :	m	Host :	Heterolithic hematite breccia					

Comments : Sample location is 100m east of 548240. Very strong specular hematite content.

Property : OLYMPIC

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Sample No.	Location :	7192 060 N	Type :	Grab	Alteration :	wCA, mCB, sSI, wHE	Au	Ag	Co	Cu	La	U
		553 800 E		Strike Length Exp. : 6 m	Sulphides :	25%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548242	Elevation:	1300 m		Sample Width : 6.0 m	Oxides :	None	10.	<0.2	18.	20.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Sample location is 85m south of 548241. No visible sulphides.

Sample No.	Location :	7191 950 N	Type :	Grab	Alteration :	wCA, wCB, mMS?, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 785 E		Strike Length Exp. : >20 m	Sulphides :	25-30%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548243	Elevation:	1335 m		Sample Width : 5.0 m	Oxides :	None	<5	<0.2	14.	5.	70.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : No visible sulphides. Copper lichen development on outcrop surface.

Sample No.	Location :	7191 830 N	Type :	Grab	Alteration :	wCA, wCB, mSI, wHE	Au	Ag	Co	Cu	La	U
		553 750 E		Strike Length Exp. : >30 m	Sulphides :	5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548244	Elevation:	1370 m		Sample Width : 3.0 m	Oxides :	None	10.	<0.2	15.	16.	20.	<10
	Orientation:	/		True Width : m	Host :	Homolithic (dolomite) breccia						

Comments : This breccia is likely southern extension of breccia sample at 548240.

Sample No.	Location :	7191 790 N	Type :	Grab	Alteration :	KF?, sSI, wHE	Au	Ag	Co	Cu	La	U
		553 650 E		Strike Length Exp. : >50 m	Sulphides :	trBO, 1%CP, 30-40%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548245	Elevation:	1410 m		Sample Width : 6.0 m	Oxides :	None	20.	<0.2	17.	390.	60.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic breccia						

Comments : No copper stain on outcrop. Sulphides found on fractures and as disseminations.

Sample No.	Location :	7191 740 N	Type :	Grab	Alteration :	sSI, mHE	Au	Ag	Co	Cu	La	U
		553 560 E		Strike Length Exp. : 10 m	Sulphides :	2%CP, trPY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548246	Elevation:	1420 m		Sample Width : 3x4 m	Oxides :	None	<5	<0.2	23.	468.	40.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Outcrop marked by abundant copper lichen. Similar style of mineralization extends at least an additional 25m upslope.

Sample No.	Location :	7191 270 N	Type :	Grab	Alteration :	mCA, mCB, wMS, wSI, wHE	Au	Ag	Co	Cu	La	U
		553 090 E		Strike Length Exp. : 10 m	Sulphides :	1-2%PY, 1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548271	Elevation:	1630 m		Sample Width : 5x2 m	Oxides :	None	<5	<0.2	13.	9.	10.	<10
	Orientation:	/		True Width : m	Host :	Homolithic (dolomite) breccia						

Comments : The most westerly breccia on the south side of breccia bowl. This breccia probably represents border phase of complex centered in bowl.

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Sample No.	Location :	7191 220 N	Type :	Float	Alteration :	mCA, mCB, mSI, WHE	Au	Ag	Co	Cu	La	U
		553 480 E		Strike Length Exp. : m	Sulphides :	1-2%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548272	Elevation:	1635 m		Sample Width : m	Oxides :	None	15.	<0.2	15.	3.	40.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments : Very angular talus; close to source.

Sample No.	Location :	7191 350 N	Type :	Grab	Alteration :	wCA, mCB	Au	Ag	Co	Cu	La	U
		553 540 E		Strike Length Exp. : >50 m	Sulphides :	1-2%PY, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548273	Elevation:	1580 m		Sample Width : 5.0 m	Oxides :	None	<5	<0.2	17.	15.	10.	<10
	Orientation:	/		True Width : m	Host :	Homolithic dolomite breccia						

Comments : Shuffling and rotation of dolomite fragments visible on weathered surface.

Sample No.	Location :	7191 290 N	Type :	Grab	Alteration :	wCB, sSI, mHE	Au	Ag	Co	Cu	La	U
		553 590 E		Strike Length Exp. : >50 m	Sulphides :	<1%CP, 2-3%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548274	Elevation:	1605 m		Sample Width : 6.0 m	Oxides :	None	<5	<0.2	32.	652.	20.	<10
	Orientation:	/		True Width : 5.0 m	Host :	Heterolithic hematite breccia						

Comments :

Sample No.	Location :	7191 370 N	Type :	Grab	Alteration :	wCB	Au	Ag	Co	Cu	La	U
		553 700 E		Strike Length Exp. : >50 m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548275	Elevation:	1575 m		Sample Width : 4.0 m	Oxides :	None	<5	<0.2	10.	20.	0.	<10
	Orientation:	/		True Width : m	Host :	Homolithic dolomite breccia						

Comments :

Sample No.	Location :	7191 400 N	Type :	Grab	Alteration :	mCB, sSI, w-mHE, BA?	Au	Ag	Co	Cu	La	U
		553 720 E		Strike Length Exp. : 25 m	Sulphides :	3%PY, 35%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548276	Elevation:	1530 m		Sample Width : 8.0 m	Oxides :	trJA	<5	<0.2	28.	9.	30.	<10
	Orientation:	/		True Width : m	Host :	Heterolithic hematite breccia						

Comments :

Sample No.	Location :	7191 450 N	Type :	Grab	Alteration :	mCB, w-mSI, WHE	Au	Ag	Co	Cu	La	U
		553 790 E		Strike Length Exp. : 5.0 m	Sulphides :	<1%PY, 10-15%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548277	Elevation:	1525 m		Sample Width : 4.0 m	Oxides :	None	<5	<0.2	9.	10.	60.	<10
	Orientation:	070 / 30 SE		True Width : 3.0 m	Host :	Heterolithic hematite breccia						

Comments : Sample taken where heterolithic hematite breccia contacts homolithic dolomite breccia.

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Sample No.	Location :	7191 510 N	Type :	Float	Alteration :	sCB, mMS, wSI, wHE	Au	Ag	Co	Cu	La	U
		553 870 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548278	Elevation:	1515 m		Sample Width :		m	<5	<0.2	19.	25.	0.	<10
	Orientation:	/		True Width :		m						

Comments : Grab of subcrop scree and talus.

Sample No.	Location :	7191 590 N	Type :	Grab	Alteration :	mSI, mHE	Au	Ag	Co	Cu	La	U
		553 760 E		Strike Length Exp. :		25 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548279	Elevation:	1465 m		Sample Width :		10x5 m	<5	<0.2	36.	102.	60.	<10
	Orientation:	/		True Width :		m						

Comments : Sample taken 25m downslope from E. DeBock sample of uranium and 250 south of E. DeBock sample 577911.

Sample No.	Location :	7191 670 N	Type :	Grab	Alteration :	wCB, sSI, vsHE	Au	Ag	Co	Cu	La	U
		553 830 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548280	Elevation:	1452 m		Sample Width :		4x4 m	<5	<0.2	11.	342.	20.	<10
	Orientation:	/		True Width :		m						

Comments : Extremely milled breccia; most fragments less than <1.0cm. Absolutely no sulphides seen although traces of malachite on broken surface. Excellent copper lichen.

Sample No.	Location :	7194 880 N	Type :	Float	Alteration :	wCL, sSI, mHE	Au	Ag	Co	Cu	La	U
		554 835 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548281	Elevation:	1530 m		Sample Width :		m	<5	<0.2	6.	1247.	30.	<10
	Orientation:	/		True Width :		m						

Comments : Talus float located on north side of valley.

Sample No.	Location :	7194 870 N	Type :	Select/grab	Alteration :	wCA, vsCB	Au	Ag	Co	Cu	La	U
		554 940 E		Strike Length Exp. :		>50 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548282	Elevation:	1530 m		Sample Width :		3.0 m	<5	<0.2	94.	6287.	40.	<10
	Orientation:	060 / V		True Width :		3.0 m						

Comments : Zone exposed in valley above tarn. Total width of chalcopyrite mineralized area is at least 20m wide.

Sample No.	Location :	7195 820 N	Type :	Float	Alteration :	mCL, sSI	Au	Ag	Co	Cu	La	U
		553 000 E		Strike Length Exp. :		>100 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548426	Elevation:	1680 m		Sample Width :		2 sq. m	<5	<0.2	17.	987.	30.	10.
	Orientation:	/		True Width :		m						

Comments : Talus in contact area with fine-grained siltstones. Sample somewhat selected for malachite and chalcopyrite content.

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Sample No.	Location :	7195 880 N	Type :	Float	Alteration :	WCB, sCL, sSI	Au	Ag	Co	Cu	La	U
		553 080 E	Strike Length Exp. :	>100 m	Sulphides :	CP, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548427	Elevation:	1670 m	Sample Width :	2x2 m	Oxides :	AZ, 5%MC	<5	<0.2	47.	22.	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Chalcopyrite contact very erratic, but more common than elsewhere. Locally clotted up to 5cm. Sample does not include chalcopyrite or malchite. Sampled material concentrated on fine-grained hematite rich breccia matrix with small fragments.

Sample No.	Location :	7195 960 N	Type :	Float	Alteration :	CL, SI	Au	Ag	Co	Cu	La	U
		553 050 E	Strike Length Exp. :	m	Sulphides :	trCP	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548428	Elevation:	1660 m	Sample Width :	>100 m	Oxides :	trMC	55.	<0.2	5.	3268.	30.	<10
	Orientation:	/	True Width :	m	Host :	Breccia						

Comments : Sample of large boulder with a bright red lichen or moss.

Sample No.	Location :	7196 000 N	Type :	Float	Alteration :	mCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		553 110 E	Strike Length Exp. :	>100 m	Sulphides :	1/2%PY, 5-7%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548429	Elevation:	1660 m	Sample Width :	2x2 m	Oxides :	None	10.	<0.2	107.	34.	10.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Perhaps more brown weathering carbonate than other areas. Sample of breccia with small fragments with abundant chlorite and hematite.

Sample No.	Location :	7196 230 N	Type :	Select	Alteration :	CB	Au	Ag	Co	Cu	La	U
		553 350 E	Strike Length Exp. :	m	Sulphides :	HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548430	Elevation:	1630 m	Sample Width :	2 m	Oxides :	None	<5	<0.2	34.	12.	70.	<10
	Orientation:	070 / 45 S	True Width :	2 m	Host :	Fairchild? siltstone						

Comments : Specular hematite veins in siltstone with brown weathering carbonate. Open space filling crystals.

Sample No.	Location :	7196 320 N	Type :	Float	Alteration :	WCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		553 460 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548431	Elevation:	1575 m	Sample Width :	2x2 m	Oxides :	MC	<5	<0.2	17.	875.	30.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						

Comments : Talus exposed beneath siltstone talus in avalanche chute.

Sample No.	Location :	7196 710 N	Type :	Float	Alteration :	EP, SI	Au	Ag	Co	Cu	La	U
		553 510 E	Strike Length Exp. :	>100 m	Sulphides :	1%MG, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548432	Elevation:	1410 m	Sample Width :	2x2 m	Oxides :	HE	<5	<0.2	20.	67.	40.	<10
	Orientation:	/	True Width :	m	Host :	Skarned Fairchild siltstone						

Comments : Abundant red lichen on boulders. Presumed to be adjacent to breccia body. Hornblende.

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Sample No.	Location :	7196 870 N	Type :	Float	Alteration :	EP, SI, CL	Au	Ag	Co	Cu	La	U
		553 590 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548433	Elevation:	1410 m		Sample Width :		m	<5	<0.2	42.	823.	40.	<10
	Orientation:	/		True Width :		m						
Host : Skarned fine-grained siltstone												

Comments : One chip has malachite/azurite; 1cm bleb of chalcopyrite noted, but not in sample. 100m east of 548432.

Sample No.	Location :	7196 510 N	Type :	Float	Alteration :	CB, mCL, mEP, sSI	Au	Ag	Co	Cu	La	U
		553 930 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548434	Elevation:	1370 m		Sample Width :		2x2 m	<5	<0.2	21.	83.	0.	40.
	Orientation:	/		True Width :		m						
Host : Breccia												

Comments : Some skarn type alteration. Hand sample of same massive chalcopyrite, but not in sample. South wall of valley west of lake, sample contains large light brown feldspar grains (1-2cm).

Sample No.	Location :	7196 570 N	Type :	Float	Alteration :	CL, EP, SI, HE	Au	Ag	Co	Cu	La	U
		553 970 E		Strike Length Exp. :		90 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548435	Elevation:	1375 m		Sample Width :		2x2 m	<5	<0.2	13.	17.	10.	<10
	Orientation:	/		True Width :		m						
Host : Skarned Fairchild siltstone												

Comments :

Sample No.	Location :	7195 950 N	Type :	Float	Alteration :	CB, CL, SI	Au	Ag	Co	Cu	La	U
		554 190 E		Strike Length Exp. :		>100 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548436	Elevation:	1575 m		Sample Width :		2x2 m	15.	<0.2	8.	12.	180.	<10
	Orientation:	/		True Width :		2 m						
Host : Heterolithic breccia												

Comments :

Sample No.	Location :	7195 900 N	Type :	Float	Alteration :	wCA, mCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		554 160 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548437	Elevation:	1590 m		Sample Width :		2x2 m	<5	<0.2	35.	3.	30.	<10
	Orientation:	/		True Width :		m						
Host : Heterolithic breccia												

Comments : Heterolithic breccia with fairly common peacock blue and purple stains on specular hematite coated fractures.

Sample No.	Location :	7195 840 N	Type :	Float	Alteration :	mCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		554 090 E		Strike Length Exp. :		>100 m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548438	Elevation:	1610 m		Sample Width :		2x2 m	<5	<0.2	16.	297.	30.	<10
	Orientation:	/		True Width :		m						
Host : Heterolithic breccia												

Comments :

Property : OLYMPIC

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Sample No.	Location :	7195 770 N	Type :	Float	Alteration :	mCB, mCL, mMS, sSI	Au	Ag	Co	Cu	La	U
		554 000 E		Strike Length Exp. :	>100 m	Sulphides :	trPY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548439	Elevation:	1630 m		Sample Width :	2x2 m	Oxides :	None	<5	<0.2	14.	8.	<10
	Orientation:	/		True Width :	m	Host :	Breccia					

Comments : Some pieces have matrix almost totally specular hematite.

Sample No.	Location :	7195 700 N	Type :	Float	Alteration :	trCA, mCB, mCL, mMS, sSI	Au	Ag	Co	Cu	La	U
		553 910 E		Strike Length Exp. :	>100 m	Sulphides :	trCP, trPY, 5-10%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548440	Elevation:	1640 m		Sample Width :	2x2 m	Oxides :	MC	<5	<0.2	14.	118.	<10
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					

Comments : More malachite in one piece than is warranted by the amount of chalcopryrite. On edge of Fairchild or Quartet talus. 100m south of 548437.

Sample No.	Location :	7195 650 N	Type :	Float	Alteration :	mCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		553 820 E		Strike Length Exp. :	>100 m	Sulphides :	trPY, 1-3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548441	Elevation:	1650 m		Sample Width :	2 m	Oxides :	None	<5	<0.2	13.	15.	10.
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					

Comments : 100m south of 548438.

Sample No.	Location :	7195 610 N	Type :	Float	Alteration :	mCB, sCL, wMS, sSI	Au	Ag	Co	Cu	La	U
		553 750 E		Strike Length Exp. :	>100 m	Sulphides :	trCP, trPY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548442	Elevation:	1660 m		Sample Width :	2x2 m	Oxides :	None	<5	<0.2	14.	71.	20.
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					

Comments : Trace chalcopryrite in one piece, abundant specular hematite in sediments along fractures - not sampled. 100m south of 548441.

Sample No.	Location :	7195 560 N	Type :	Float	Alteration :	mCB, mCL, sSI, HE	Au	Ag	Co	Cu	La	U
		553 680 E		Strike Length Exp. :	>100 m	Sulphides :	trCP, 3%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548443	Elevation:	1660 m		Sample Width :	2x2 m	Oxides :	None	5.	<0.2	15.	11.	<10
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					

Comments : More red siliceous rock (hematite) than specular hematite. 100m south of 548442.

Sample No.	Location :	7195 490 N	Type :	Float	Alteration :	CB, CL, SI	Au	Ag	Co	Cu	La	U
		553 560 E		Strike Length Exp. :	>100 m	Sulphides :	trCP, <1%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)
548444	Elevation:	1550 m		Sample Width :	2x2 m	Oxides :	None	<5	<0.2	8.	13.	10.
	Orientation:	/		True Width :	m	Host :	Heterolithic breccia					

Comments : North of claim post.

Property : OLYMPIC

NTS : 106C/13

Date : 12/11/92

Sample No.	Location :	7195 500 N	Type :	Float	Alteration :	mCB, sCL, sSI	Au	Ag	Co	Cu	La	U
		553 450 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548445	Elevation:	1550 m		Sample Width :	2x2 m		10.	<0.2	45.	8.	100.	<10
	Orientation:	/		True Width :	m							
Comments : Azurite/malachite not included in sample. 100m west of 548444.												

Sample No.	Location :	7195 500 N	Type :	Float	Alteration :	wCB, mCL, sSI	Au	Ag	Co	Cu	La	U
		553 390 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548446	Elevation:	1550 m		Sample Width :	m		<5	<0.2	14.	<1	120.	<10
	Orientation:	/		True Width :	m							
Comments : Near west edge of breccia body. Contact marked by maroon slaty sediments. 150m west of 548445.												

Sample No.	Location :	7194 630 N	Type :	Float	Alteration :	wCA, wCB, SI	Au	Ag	Co	Cu	La	U
		552 930 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548464	Elevation:	1730 m		Sample Width :	1x1 m		65.	<0.2	31.	3750.	20.	20.
	Orientation:	/		True Width :	m							
Comments : No malachite or azurite. Abundant black manganese stain on weathered surface.												

Sample No.	Location :	7194 610 N	Type :	Float	Alteration :	SI, HE	Au	Ag	Co	Cu	La	U
		552 885 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548465	Elevation:	1740 m		Sample Width :	2x2 m		35.	<0.2	29.	1322.	90.	<10
	Orientation:	/		True Width :	m							
Comments : Chalcocite on fractures with malachite, no chalcopyrite noted, several boulders with malachite, chalcocite; other boulders of ultramafic dyke in same area.												

Sample No.	Location :	7194 515 N	Type :	Float	Alteration :	wCA, mCB, wCL, sSI	Au	Ag	Co	Cu	La	U
		552 910 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548466	Elevation:	1755 m		Sample Width :	2x2 m		10.	<0.2	15.	62.	80.	<10
	Orientation:	/		True Width :	m							
Comments : Trace malachite on one piece.												

Sample No.	Location :	7194 440 N	Type :	Float	Alteration :	wCA, mCB, sSI, HE	Au	Ag	Co	Cu	La	U
		552 965 E		Strike Length Exp. :		m	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548467	Elevation:	1765 m		Sample Width :	2x2 m		10.	<0.2	33.	14.	180.	<10
	Orientation:	/		True Width :	m							
Comments : 100m along cirque.												

Property : OLYMPIC

NTS : 106C/13

Date : 12/11/92

Sample No.	Location :	7194 400 N	Type :	Float	Alteration :	wCA, sCB, mSI	Au	Ag	Co	Cu	La	U
		553 050 E	Strike Length Exp. :	m	Sulphides :	CC?, 1%CP, 1%PY, HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548468	Elevation:	1790 m	Sample Width :	2x2 m	Oxides :	MC	5.	<0.2	54.	1010.	40.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Carbonate rich breccia. Gillespie dolomite boulders are also abundant in talus. Sample selected for malachite content.												

Sample No.	Location :	7194 390 N	Type :	Float	Alteration :	WCA, sCB, mSI, HE	Au	Ag	Co	Cu	La	U
		553 205 E	Strike Length Exp. :	m	Sulphides :	2-5%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548469	Elevation:	1800 m	Sample Width :	m	Oxides :	None	15.	<0.2	17.	139.	60.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Muddy brown on weathered surface. No sulphides noted. 125m from 548468.												

Sample No.	Location :	7194 470 N	Type :	Float	Alteration :	mCA, sCB, mSI	Au	Ag	Co	Cu	La	U
		553 260 E	Strike Length Exp. :	m	Sulphides :	CC?, trCP, 2%HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548470	Elevation:	1800 m	Sample Width :	2x2 m	Oxides :	trMC	30.	<0.2	16.	1554.	50.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Muddy brown weathering, heterolithic breccia; fragments 1-2cm.												

Sample No.	Location :	7194 550 N	Type :	Float	Alteration :	CA, mCB, sSI	Au	Ag	Co	Cu	La	U
		553 325 E	Strike Length Exp. :	m	Sulphides :	HS	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548471	Elevation:	1800 m	Sample Width :	m	Oxides :	None	<5	<0.2	39.	26.	60.	<10
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Breccia.												

Sample No.	Location :	7194 760 N	Type :	Float	Alteration :	sCB, mCL, sSI, HE	Au	Ag	Co	Cu	La	U
		553 250 E	Strike Length Exp. :	m	Sulphides :	trCP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548472	Elevation:	1730 m	Sample Width :	2x2 m	Oxides :	None	10.	<0.2	14.	59.	20.	10.
	Orientation:	/	True Width :	m	Host :	Heterolithic breccia						
Comments : Breccia.												

Sample No.	Location :	7194 915 N	Type :	Float	Alteration :	CB, CL, SI, HE	Au	Ag	Co	Cu	La	U
		553 590 E	Strike Length Exp. :	m	Sulphides :	1/2%CP, trPY	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548473	Elevation:	1600 m	Sample Width :	2x2 m	Oxides :	MC	20.	<0.2	18.	171.	20.	20.
	Orientation:	/	True Width :	m	Host :	Breccia						
Comments : Talus near contact.												

Sample No.	Location :	7194 870 N	Type :	Float	Alteration :	CB, CL, SI, HE	Au	Ag	Co	Cu	La	U
		553 660 E		Strike Length Exp. : m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548474	Elevation:	1610 m		Sample Width : 2x2 m	Oxides :	None	5.	<0.2	22.	10.	30.	10.
	Orientation:	/		True Width : m	Host :	Breccia						
Comments : Typical Wernecke breccia.												

Sample No.	Location :	7194 830 N	Type :	Float	Alteration :	CB, SI, HE	Au	Ag	Co	Cu	La	U
		553 860 E		Strike Length Exp. : m	Sulphides :	None	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
548475	Elevation:	1610 m		Sample Width : 2x2 m	Oxides :	None	<5	<0.2	12.	13.	0.	30.
	Orientation:	/		True Width : m	Host :	Breccia						
Comments : Maroon and red siliceous breccia.												

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 %



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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



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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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. : 19224083
P.O. Number :
Account : BM

CORRECTED COPY

CERTIFICATE OF ANALYSIS A9224083

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)
OLYMPIC 10977	205	274	2640	1.8	3.90	40	1.0	< 2	0.61	< 0.5	164	72	>10000	8.38	0.19	1.49
OLYMPIC 10978	205	274	2520	9.0	7.36	70	< 0.5	< 2	0.51	< 0.5	136	36	>10000	8.86	0.12	0.04
OLYMPIC 10979	205	274	40	< 0.2	6.72	820	1.5	< 2	1.91	< 0.5	12	93	738	7.35	5.08	2.05
OLYMPIC 10980	205	274	20	< 0.2	6.40	580	2.5	< 2	2.63	< 0.5	20	82	285	7.23	4.81	1.70
OLYMPIC 508947	205	274	40	< 0.2	7.09	350	0.5	< 2	2.38	< 0.5	46	74	216	9.56	2.52	3.74
OLYMPIC 508948	205	274	25	< 0.2	5.15	260	< 0.5	< 2	0.19	< 0.5	7	85	2990	11.15	2.19	1.14

CERTIFICATION:

Phai D Ma



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-92
Invoice No. : I9224083
P.O. Number :
Account : BM

CERTIFICATE OF ANALYSIS

A9224083

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	
OLYMPIC 10977	205	274	2800	10	0.25	54	270	6	50	0.03	26	< 10	64	20	< 10	
OLYMPIC 10978	205	274	865	4	5.62	58	1050	6	32	< 0.01	2	80	222	< 10	< 10	
OLYMPIC 10979	205	274	1745	< 1	0.66	35	750	< 2	19	0.25	147	< 10	38	20	< 10	
OLYMPIC 10980	205	274	1880	< 1	0.23	15	760	< 2	15	0.19	80	< 10	16	10	< 10	
OLYMPIC 508947	205	274	5360	2	0.45	54	870	< 2	14	0.24	90	< 10	56	20	< 10	
OLYMPIC 508948	205	274	535	2	0.26	21	670	< 2	5	0.21	148	< 10	34	170	< 10	

CERTIFICATION:

Yhai D Ma



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PAM DEV. MEN. MTEL

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VANCOUVER, BC
V6B 1N4

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

Page: 10
Total Pages: 10
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 %
547019	<5	<0.2	7.27	230	2.0	<20	3.45	<0.5	235	63	>10000	5.33	1.48	4.23
547020	<5	<0.2	6.46	80	<0.5	4	0.36	0.5	48	108	3325	10.56	0.56	3.24
547021	5	<0.2	7.56	200	0.5	8	1.98	<0.5	17	77	254	5.48	0.92	1.01
547022	<5	<0.2	5.81	600	0.5	8	3.91	<0.5	20	86	55	5.76	3.89	2.31
547023	<5	<0.2	7.22	160	<0.5	4	0.09	<0.5	79	76	123	6.53	1.43	4.70
547024	<5	<0.2	3.11	130	1.0	<2	0.03	<0.5	131	158	235	0.54	1.07	0.45
547025	35	<0.2	5.84	360	<0.5	6	4.10	<0.5	292	65	345	6.75	4.01	4.17
547026	10	<0.2	6.05	770	0.5	6	2.72	<0.5	36	118	78	5.66	3.54	1.97
547027	<5	<0.2	6.79	650	0.5	12	2.59	<0.5	15	47	50	5.96	4.02	2.02
547028	5	<0.2	6.81	950	<0.5	12	2.79	<0.5	8	88	16	5.29	4.86	1.92
547029	5	<0.2	7.17	790	0.5	8	1.90	<0.5	21	79	49	7.02	4.95	1.70
547030	<5	<0.2	6.53	610	0.5	14	4.15	<0.5	36	88	13	6.37	3.32	2.87
547031	<5	<0.2	7.28	160	<0.5	10	2.23	<0.5	15	89	7	4.88	1.16	2.77
547032	10	<0.2	7.62	450	1.5	14	4.27	<0.5	19	83	30	6.22	4.19	2.29
547320	<5	<0.2	7.27	750	<0.5	<2	2.47	<0.5	10	94	35	4.42	5.63	1.24
547321	<5	<0.2	7.16	800	<0.5	4	3.88	0.5	8	86	9	4.94	5.30	1.98
547322	<5	<0.2	7.33	740	<0.5	<2	2.12	0.5	27	111	340	5.55	5.49	1.24
547323	<5	<0.2	5.66	490	<0.5	4	5.44	0.5	52	102	1881	2.60	3.64	1.47
547324	<5	<0.2	5.79	580	<0.5	<2	2.56	<0.5	17	103	1150	2.73	3.76	1.67
547325	<5	<0.2	6.38	440	<0.5	2	4.13	<0.5	27	92	1041	2.86	3.84	2.17
547326	45	1.4	7.12	370	0.5	<20	2.72	0.5	150	96	>10000	4.90	4.03	1.26
547327	10	<0.2	6.31	440	<0.5	4	1.02	0.5	35	300	3767	5.89	2.96	2.83
547328	20	<0.2	6.82	880	<0.5	2	1.62	0.5	47	95	188	7.28	5.89	1.22
547451	15	<0.2	5.31	600	0.5	6	3.80	<0.5	35	94	1024	3.64	3.48	1.71
547452	<5	<0.2	7.57	720	<0.5	4	1.74	0.5	68	105	5055	6.21	5.83	1.78
547453	<5	<0.2	7.30	690	<0.5	4	1.99	0.5	156	93	1781	8.07	7.15	1.51
547454	5	0.6	6.84	330	1.0	6	3.73	<0.5	71	87	9570	2.46	3.67	1.80
547455	190	5.8	6.00	250	0.5	<20	0.62	<0.5	3621	79	>10000	8.76	2.94	0.31
547456	10	<0.2	6.82	420	<0.5	4	2.48	0.5	26	62	418	7.76	4.68	1.81
547457	45	0.8	6.06	360	<0.5	4	4.27	1.0	32	72	7904	10.57	2.50	1.38
547458	15	0.6	7.22	440	<0.5	2	2.16	1.0	47	68	4462	9.00	2.26	3.36
547914	<5	1.2	0.32	20	<0.5	<2	2.05	<0.5	22	18	106	8.96	0.07	20.11
547915	<5	4.2	3.83	350	<0.5	<20	11.03	<0.5	46	49	>10000	4.15	2.95	6.52
547916	5	<0.2	7.22	1150	<0.5	8	2.37	0.5	37	83	66	7.66	7.20	1.09
547917	260	1.0	5.63	120	<0.5	<20	0.19	<0.5	85	62	>10000	15.06	4.89	0.40

CERTIFICATION:

B. Caulfield



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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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

OLYMPIC

Total Pages: 10
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
547019	4160	6	1.45	95	1200	<2	30	0.12	55	40	70	20	<10
547020	730	3	2.20	63	520	<2	20	0.57	289	70	80	10	<10
547021	1630	1	5.21	10	820	<2	53	0.20	55	30	16	30	<10
547022	3340	3	0.40	14	760	<2	23	0.18	67	40	18	10	<10
547023	370	8	0.24	40	470	<2	4	0.19	77	30	38	50	<10
547024	350	<1	0.14	27	70	<2	4	0.04	18	<10	8	<10	<10
547025	2290	10	0.17	37	1060	<2	65	0.16	94	40	44	<10	<10
547026	1910	4	0.35	36	650	<2	16	0.14	52	30	14	40	<10
547027	2370	1	0.94	30	590	<2	21	0.20	47	40	16	20	<10
547028	2045	<1	1.02	20	650	<2	22	0.18	49	30	14	30	<10
547029	2160	2	0.24	21	680	<2	15	0.27	70	50	24	40	<10
547030	3090	3	1.03	36	700	<2	24	0.18	66	60	18	40	<10
547031	1350	<1	3.88	34	510	<2	35	0.22	207	30	28	20	<10
547032	2120	3	1.10	24	710	<2	28	0.36	67	40	16	10	<10
547320	2510	1	0.24	15	830	<2	20	0.24	62	<10	14	40	<10
547321	2865	<1	0.21	15	740	<2	21	0.23	67	<10	12	10	<10
547322	2100	2	1.32	26	960	<2	21	0.21	100	<10	22	20	<10
547323	3410	<1	0.16	18	1070	<2	30	0.15	53	<10	18	<10	<10
547324	2155	1	0.14	17	1110	<2	17	0.14	41	<10	16	10	<10
547325	3245	<1	0.17	21	850	<2	18	0.16	62	<10	14	10	<10
547326	3800	16	0.33	26	600	<2	18	0.10	95	<50	84	30	<10
547327	1410	2	0.23	75	480	<2	9	0.28	85	<10	66	20	<10
547328	2090	2	0.46	35	850	<2	13	0.25	73	<10	30	30	<10
547451	3510	<1	0.21	21	710	<2	21	0.15	44	10	16	90	<10
547452	1860	<1	1.37	79	610	<2	19	0.57	277	20	60	10	<10
547453	2235	6	0.70	57	480	<2	16	0.31	261	30	48	<10	<10
547454	2795	2	0.19	19	1570	<2	20	0.11	97	<10	40	20	<10
547455	970	2	0.21	504	650	<2	8	0.08	69	100	270	20	<10
547456	2690	1	1.46	19	880	<2	16	0.41	153	40	30	<10	<10
547457	1730	4	2.47	15	660	<2	42	0.23	88	50	84	<10	<10
547458	2060	1	2.62	31	780	<2	31	0.30	124	40	128	<10	<10
547914	3630	<1	0.32	16	<10	56	18	<0.01	31	30	22	10	20
547915	3035	1	0.13	13	400	10	31	0.06	39	50	72	<10	40
547916	2505	1	0.21	27	920	<2	23	0.16	82	30	14	90	<10
547917	1085	17	0.13	49	<200	<2	55	0.09	64	650	224	20	30

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 LAKE **OLYMPIC**
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

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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 %
547918	10	<0.2	6.86	600	<0.5	2	3.29	<0.5	15	62	1647	7.53	9.14	1.56
547919	25	<0.2	6.29	790	<0.5	<2	2.27	<0.5	12	82	4056	8.12	6.32	1.03
547920	95	<0.2	6.74	1850	<0.5	2	1.48	<0.5	14	76	5960	8.93	8.12	0.63
547921	365	20.0	5.98	190	<0.5	<20	1.17	<0.5	209	86	>10000	5.84	7.52	0.35
548051	65	<0.2	0.95	230	<0.5	<20	1.90	2.5	16	62	>10000	>25.00	0.49	1.19
548052	40	<0.2	6.02	810	<0.5	<2	2.46	<0.5	91	76	2401	8.27	7.76	1.62
548053	<5	8.0	0.25	10	<0.5	<2	0.48	1.5	<1	132	102	>25.00	0.04	0.22
548076	5	<0.2	4.63	380	<0.5	<2	8.37	<0.5	14	95	109	3.38	3.33	5.32
548077	15	2.0	5.84	360	0.5	6	6.42	<0.5	42	78	1982	2.14	3.79	4.20
548078	15	<0.2	7.09	350	1.0	2	6.13	<0.5	11	95	52	2.47	4.81	3.72
548079	30	<0.2	8.27	500	<0.5	<2	4.12	<0.5	6	77	9	3.45	7.26	2.45
548080	10	<0.2	7.37	430	1.0	4	4.53	0.5	10	118	11	2.08	4.77	3.08
548081	10	<0.2	8.15	310	1.5	<2	4.66	<0.5	9	107	16	2.32	4.86	3.18
548082	<5	<0.2	1.08	180	<0.5	<2	9.23	<0.5	9	73	10	2.32	1.19	5.92
548083	<5	5.2	1.25	90	<0.5	<2	6.69	1.5	17	95	36	15.62	1.11	4.39
548084	<5	1.8	1.27	150	<0.5	<2	11.93	45.0	10	42	14	3.64	1.36	7.69
548085	5	0.6	2.30	270	<0.5	<2	12.35	0.5	12	33	35	3.20	2.07	8.18
548086	15	6.4	0.17	20	<0.5	2	13.03	1.0	10	35	62	11.66	0.09	1.26
548087	10	0.2	6.82	320	0.5	2	5.00	<0.5	9	84	37	2.55	4.16	2.92
548088	5	1.4	5.81	470	0.5	2	5.45	<0.5	10	74	397	2.33	3.76	3.25
548089	15	<0.2	7.44	700	1.0	<2	3.66	<0.5	24	99	77	2.62	5.14	3.08
548090	15	0.4	5.26	390	<0.5	6	5.63	<0.5	38	94	168	4.06	2.99	3.56
548091	10	0.2	6.72	600	<0.5	4	3.84	0.5	20	84	111	4.42	5.12	2.50
548092	20	<0.2	5.93	320	<0.5	2	6.03	<0.5	14	80	33	3.12	3.76	3.73
548093	15	<0.2	7.08	1130	<0.5	2	3.27	<0.5	23	70	57	6.13	6.78	2.10
548094	<5	<0.2	6.54	920	<0.5	6	3.50	<0.5	16	91	14	5.16	4.88	2.00
548095	15	0.6	5.93	3380	<0.5	2	4.33	<0.5	15	70	1054	6.44	6.71	2.20
548096	5	0.2	7.58	1250	<0.5	2	1.98	<0.5	37	88	26	4.21	8.18	1.14
548097	80	<0.2	5.33	3990	<0.5	4	2.44	<0.5	17	134	56	9.67	4.15	1.30
548098	<5	<0.2	7.65	6770	<0.5	<2	2.73	<0.5	16	87	120	5.51	6.70	2.13
548099	<5	21.4	0.54	120	<0.5	<2	0.12	2.5	26	86	176	21.09	0.28	0.21
548100	5	<0.2	6.39	5990	<0.5	<2	3.31	0.5	9	103	8	6.07	5.39	1.77
548118	15	<0.2	6.78	1090	<0.5	<2	4.89	<0.5	17	67	108	2.94	6.96	2.27
548119	10	<0.2	6.98	1730	<0.5	<2	2.39	<0.5	10	85	38	7.22	5.02	1.50
548120	5	<0.2	6.58	3890	<0.5	<2	3.47	0.5	12	63	10	7.07	6.52	2.01

DAVID CAULFIELD *B. Caulfield*



Chemex Labs Ltd.

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
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

OLYMPIC

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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
547918	2625	3	0.15	7	620	<2	17	0.21	46	60	16	10	20
547919	1750	3	0.14	13	900	<2	17	0.59	203	70	28	30	<10
547920	1895	30	0.14	14	1080	<2	206	0.16	98	90	34	120	<10
547921	1270	168	0.13	41	600	<2	19	0.04	18	300	128	40	20
548051	495	<1	0.17	15	<200	6	15	<0.01	5	150	114	40	10
548052	1350	6	0.19	45	830	<2	27	0.51	203	40	20	20	10
548053	60	6	0.02	72	<10	150	1	<0.01	<1	<50	178	10	10
548076	1225	<1	0.15	17	590	4	23	0.11	99	20	20	<10	20
548077	875	9	0.21	35	760	8	21	0.12	62	10	22	<10	10
548078	1005	3	0.28	15	780	4	20	0.23	77	10	16	20	<10
548079	1195	8	0.23	23	1190	2	18	0.42	318	10	10	<10	20
548080	660	6	0.18	17	760	4	13	0.24	76	10	14	40	<10
548081	750	1	0.25	19	830	2	14	0.19	75	10	14	40	<10
548082	910	<1	0.01	6	140	36	16	0.01	18	10	138	<10	40
548083	750	<1	0.04	67	100	130	14	0.01	22	80	68	<10	30
548084	810	<1	0.02	4	210	92	16	0.02	20	70	>10000	<10	60
548085	1220	<1	0.05	10	320	36	31	0.07	25	20	182	<10	50
548086	510	<1	0.02	14	120	156	12	<0.01	9	70	64	<10	70
548087	910	3	0.24	18	770	6	14	0.20	61	10	20	30	<10
548088	1575	2	0.20	16	730	6	22	0.16	46	10	18	10	10
548089	875	2	0.18	20	780	4	18	0.27	73	20	18	60	<10
548090	1615	1	0.17	17	640	6	24	0.13	45	20	22	<10	10
548091	1300	2	0.17	16	850	6	17	0.24	77	20	18	40	<10
548092	1550	<1	0.17	18	680	8	19	0.17	60	10	14	10	<10
548093	1965	1	0.19	15	870	4	19	0.27	60	30	20	60	<10
548094	2135	3	0.16	17	720	4	16	0.22	56	30	16	40	<10
548095	2320	6	0.21	8	790	4	30	0.18	57	40	20	30	<10
548096	1090	2	0.19	14	800	6	15	0.20	122	20	14	40	<10
548097	1450	4	0.13	11	990	8	264	0.16	116	50	18	160	<10
548098	1630	2	0.19	23	840	6	52	0.22	71	30	16	50	<10
548099	370	<1	0.01	169	<10	290	2	<0.01	<1	60	3314	<10	10
548100	1710	<1	0.16	17	740	4	83	0.11	64	20	28	40	<10
548118	2160	4	0.15	13	750	<2	20	0.17	67	20	10	30	<10
548119	1410	4	0.14	17	750	<2	20	0.11	63	30	14	50	<10
548120	1480	<1	0.15	12	800	<2	51	0.23	79	40	12	80	<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

FAIRCHILD DEVELOPMENT LIMITED

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

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

Total Pages : 10
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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 %
548121	15	<0.2	6.22	5060	<0.5	<2	3.51	<0.5	32	56	733	7.67	6.63	1.16
548122	10	<0.2	6.24	330	<0.5	<2	2.60	0.5	26	102	252	8.43	3.89	0.83
548123	10	<0.2	6.96	1630	<0.5	<2	4.56	<0.5	19	66	20	5.69	6.31	2.75
548124	50	<0.2	5.93	740	<0.5	<2	3.72	<0.5	231	99	4994	8.26	6.07	1.66
548125	10	<0.2	7.03	1160	<0.5	<2	2.67	0.5	17	70	30	7.31	7.67	1.15
548126	45	<0.2	6.78	1810	<0.5	<2	2.08	<0.5	107	77	5377	9.54	7.18	1.03
548127	10	<0.2	7.09	1410	<0.5	<2	3.89	<0.5	10	85	10	6.61	5.29	2.15
548128	10	<0.2	6.92	950	<0.5	<2	3.58	<0.5	23	64	16	6.59	5.95	2.11
548129	15	<0.2	6.36	4360	<0.5	4	4.64	<0.5	25	67	1044	6.91	6.90	2.18
548130	<5	<0.2	6.85	2010	<0.5	<2	2.95	0.5	28	98	3	7.28	3.98	1.69
548131	165	0.6	5.56	110	<0.5	8	2.74	<0.5	140	62	210	12.50	5.95	1.48
548132	25	<0.2	6.83	740	<0.5	<2	3.54	0.5	44	81	8	7.93	6.01	1.69
548133	5	<0.2	6.33	1330	<0.5	<2	4.13	<0.5	28	70	1705	5.31	6.83	1.95
548134	15	<0.2	7.22	810	<0.5	<2	3.75	<0.5	12	83	597	6.11	5.56	2.33
548135	<5	<0.2	6.63	5730	<0.5	<2	5.01	<0.5	17	88	6	6.32	5.92	2.30
548225	30	<0.2	6.98	1950	<0.5	<2	2.43	0.5	110	60	999	6.64	6.87	1.51
548226	10	<0.2	5.32	460	<0.5	4	5.81	<0.5	14	71	30	2.58	4.56	3.78
548227	10	<0.2	5.71	310	<0.5	<2	5.52	<0.5	9	64	12	2.56	3.83	3.25
548228	15	<0.2	6.15	5580	<0.5	4	4.87	<0.5	44	61	298	5.96	5.98	1.81
548229	20	<0.2	6.51	1930	<0.5	<2	4.68	<0.5	27	67	120	5.61	7.23	2.05
548230	<5	<0.2	6.49	8270	<0.5	4	4.17	<0.5	45	105	362	6.74	5.92	1.32
548231	10	<0.2	0.58	110	<0.5	10	5.65	1.5	1	56	4	>25.00	0.17	3.23
548232	10	<0.2	5.77	3520	<0.5	8	4.11	<0.5	29	114	142	7.76	4.21	1.43
548233	15	<0.2	7.36	1560	<0.5	<2	3.28	<0.5	25	72	45	6.44	4.74	1.45
548234	10	<0.2	0.62	120	<0.5	<2	18.04	<0.5	15	14	23	2.40	0.39	11.38
548235	15	<0.2	6.63	1400	<0.5	6	5.00	<0.5	36	71	374	6.81	6.21	2.56
548236	10	<0.2	6.44	2700	<0.5	6	3.78	<0.5	33	96	1312	4.61	6.09	1.64
548237	35	0.6	6.41	3610	<0.5	30	3.01	<0.5	29	81	3219	7.29	6.32	1.22
548238	40	0.6	7.11	4310	<0.5	42	2.49	<0.5	21	74	3238	4.23	7.93	1.35
548239	<5	<0.2	7.86	4370	<0.5	2	1.91	<0.5	23	96	78	5.96	5.90	1.08
548240	<5	<0.2	6.88	1410	0.5	4	3.34	0.5	13	96	14	3.60	3.86	1.95
548241	15	<0.2	7.73	490	<0.5	6	2.42	<0.5	13	83	115	7.87	7.64	1.41
548242	10	<0.2	6.75	1630	<0.5	8	4.16	1.0	18	83	20	7.88	6.93	1.72
548243	<5	<0.2	7.62	980	<0.5	6	2.30	0.5	14	102	5	7.05	4.96	1.33
548244	10	<0.2	5.93	790	<0.5	6	5.06	<0.5	15	91	16	4.86	4.14	2.47

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

FAR DEL MEN INTEL

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

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

OLYMPIC

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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
548121	3490	7	0.16	20	950	<2	89	0.16	111	40	16	20	10
548122	2315	1	0.21	29	700	<2	75	0.14	73	30	14	70	<10
548123	2015	1	0.20	19	770	<2	24	0.21	66	30	10	30	<10
548124	2040	17	0.18	17	770	<2	27	0.13	69	70	30	10	20
548125	1445	6	0.15	16	880	<2	18	0.20	62	30	12	60	<10
548126	2105	8	0.14	22	800	<2	23	0.14	77	80	30	50	<10
548127	1850	4	0.13	21	730	<2	29	0.10	79	30	12	40	<10
548128	2450	1	0.12	30	790	<2	33	0.12	60	30	12	50	<10
548129	3530	<1	0.16	20	720	<2	290	0.10	70	40	20	40	10
548130	2240	<1	0.13	31	820	28	212	0.18	152	30	14	60	<10
548131	1960	<1	0.14	46	600	2	85	0.06	19	60	18	10	10
548132	2725	2	0.16	29	750	<2	29	0.10	71	30	14	60	<10
548133	3060	<1	0.17	11	700	<2	19	0.19	51	30	16	30	<10
548134	1690	2	0.17	17	820	<2	24	0.23	67	30	16	50	<10
548135	2800	2	0.17	21	680	<2	68	0.11	56	30	14	20	<10
548225	1720	3	0.19	49	960	<2	34	0.52	214	30	14	40	<10
548226	1335	2	0.18	13	690	<2	27	0.16	38	10	6	<10	10
548227	1630	1	0.16	15	730	<2	21	0.10	42	10	6	<10	<10
548228	5075	4	0.14	21	690	<2	145	0.12	49	30	12	20	<10
548229	3690	15	0.17	20	710	<2	43	0.12	47	30	10	20	10
548230	4095	7	0.18	21	720	<2	232	0.11	52	40	12	30	<10
548231	1375	8	0.01	18	160	<2	21	0.01	15	100	52	<10	30
548232	3605	10	0.13	24	770	<2	399	0.11	48	30	12	30	<10
548233	2905	7	0.16	27	760	<2	41	0.17	66	20	14	60	<10
548234	2830	1	0.02	9	140	<2	27	0.01	37	10	18	<10	90
548235	3635	4	0.22	24	660	<2	36	0.21	60	30	16	20	10
548236	2920	8	0.18	20	550	<2	613	0.12	83	30	14	20	10
548237	2490	12	0.16	20	860	<2	79	0.14	75	40	20	60	<10
548238	1725	4	0.14	13	910	<2	79	0.29	136	30	18	60	<10
548239	1725	4	0.15	23	830	<2	102	0.14	74	20	8	80	<10
548240	2740	<1	0.16	19	720	<2	43	0.22	50	10	8	40	<10
548241	1580	8	0.18	24	990	<2	15	0.13	80	40	14	80	<10
548242	3170	4	0.16	23	810	<2	41	0.14	63	40	14	60	<10
548243	2775	3	0.16	35	730	<2	26	0.19	63	30	14	70	<10
548244	3105	3	0.18	21	730	<2	28	0.18	50	20	8	20	<10

CERTIFICATION: *B. Caulfield*



Chemex Labs Ltd.

Analytical Chemists "Geochemists" Registered Assayers
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10. PAMSON DEVELOPMENT LIMITED

711 - 675 W. HASTINGS ST.
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V6B 1N4

Project: FAIRCHILD LAKE OLYMPIC
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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 %
548245	20	<0.2	7.23	1610	<0.5	4	2.47	<0.5	17	85	390	6.51	7.10	1.23
548246	<5	<0.2	6.55	980	<0.5	2	2.50	<0.5	23	74	468	6.04	6.53	1.25
548271	<5	<0.2	6.70	770	0.5	<2	4.84	<0.5	13	88	9	2.54	6.26	2.78
548272	15	<0.2	6.60	2580	<0.5	<2	2.63	<0.5	15	87	3	7.72	6.00	1.68
548273	<5	<0.2	5.60	790	0.5	<2	4.20	<0.5	17	89	15	2.37	4.30	2.88
548274	<5	<0.2	6.05	920	<0.5	2	4.70	<0.5	32	80	652	6.18	4.99	2.67
548275	<5	<0.2	5.51	480	0.5	<2	4.95	<0.5	10	86	20	2.08	3.79	3.21
548276	<5	<0.2	7.29	3100	<0.5	<2	2.11	<0.5	28	84	9	7.05	7.32	0.98
548277	<5	<0.2	7.01	900	<0.5	<2	2.72	<0.5	9	92	10	6.31	5.56	1.32
548278	<5	<0.2	5.16	550	0.5	<2	5.58	<0.5	19	79	25	2.34	3.90	3.39
548279	<5	<0.2	6.68	3260	<0.5	<2	2.11	<0.5	36	78	102	8.62	6.89	0.77
548280	<5	<0.2	6.77	4740	<0.5	<2	2.62	<0.5	11	50	342	5.76	7.80	0.77
548281	<5	<0.2	6.56	560	<0.5	<2	2.70	<0.5	6	92	1247	5.96	4.09	1.56
548282	<5	<0.2	7.09	340	1.5	<2	2.21	<0.5	94	80	6287	2.21	3.97	1.21
548426	<5	<0.2	7.93	260	<0.5	2	1.38	<0.5	17	102	987	9.84	2.19	3.12
548427	<5	<0.2	7.56	490	<0.5	2	1.80	<0.5	47	99	22	7.78	3.88	1.93
548428	55	<0.2	7.48	510	2.0	4	0.04	0.5	5	155	3268	1.81	3.16	1.09
548429	10	<0.2	6.27	530	<0.5	2	4.45	<0.5	107	90	34	8.81	3.42	2.47
548430	<5	<0.2	7.24	2690	0.5	<2	2.48	<0.5	34	72	12	4.08	2.63	1.47
548431	<5	<0.2	7.60	380	<0.5	<2	2.68	0.5	17	89	875	7.05	2.46	2.58
548432	<5	<0.2	8.00	210	<0.5	<2	2.80	<0.5	20	213	67	5.32	0.55	1.77
548433	<5	<0.2	6.45	290	<0.5	<2	2.86	<0.5	42	626	823	8.22	0.84	4.31
548434	<5	<0.2	5.24	150	<0.5	6	13.16	0.5	21	251	83	5.54	0.42	1.78
548435	<5	<0.2	7.74	910	0.5	<2	4.34	<0.5	13	49	17	4.42	2.79	1.75
548436	15	<0.2	7.40	760	<0.5	<2	2.68	0.5	8	78	12	5.64	3.00	1.42
548437	<5	<0.2	7.18	1680	<0.5	2	3.04	<0.5	35	76	3	6.59	2.97	1.74
548438	<5	<0.2	7.42	440	<0.5	<2	3.83	0.5	16	76	297	5.82	2.98	2.73
548439	<5	<0.2	6.66	590	<0.5	<2	2.32	0.5	14	69	8	7.09	4.39	1.28
548440	<5	<0.2	7.12	1190	<0.5	8	2.27	<0.5	14	51	118	8.94	7.51	1.59
548441	5	<0.2	6.10	610	<0.5	2	4.48	<0.5	13	80	15	6.04	4.30	2.78
548442	<5	<0.2	6.96	470	<0.5	2	4.72	0.5	14	60	71	5.96	3.12	3.24
548443	5	<0.2	6.72	640	<0.5	<2	3.94	<0.5	15	93	11	5.63	4.76	2.39
548444	<5	<0.2	7.07	1070	<0.5	8	2.85	0.5	8	91	13	5.76	7.51	2.02
548445	10	<0.2	6.99	910	<0.5	4	1.83	<0.5	45	70	8	8.56	6.44	2.29
548446	<5	<0.2	6.62	750	<0.5	<2	2.42	0.5	14	94	<1	6.60	4.50	2.23

CERTIFICATION: *B. Caulfield*



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VANCOUVER, BC
V6B 1N4

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

OLYMPIC

Total pages: 1
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
548245	2470	6	0.16	22	790	<2	30	0.19	61	30	12	60	<10
548246	2955	9	0.15	24	790	<2	17	0.23	61	30	16	40	<10
548271	1400	7	0.15	15	690	4	23	0.14	52	<10	8	10	<10
548272	855	11	0.11	20	970	<2	275	0.20	69	<10	12	40	<10
548273	895	1	0.11	23	610	4	23	0.20	41	<10	6	10	<10
548274	1480	8	0.13	20	690	<2	26	0.16	57	<10	12	20	<10
548275	1185	4	0.11	20	590	4	22	0.18	43	<10	6	<10	<10
548276	1545	10	0.14	22	780	<2	171	0.18	80	<10	10	30	<10
548277	1630	6	0.13	22	690	<2	15	0.14	66	<10	10	60	<10
548278	1650	2	0.10	28	570	4	23	0.11	40	<10	6	<10	<10
548279	2460	8	0.09	23	740	<2	132	0.13	81	<10	14	60	<10
548280	3400	5	0.11	35	790	<2	97	0.16	225	<10	16	20	<10
548281	2190	4	1.78	6	710	<2	18	0.14	88	<10	14	30	<10
548282	1755	5	0.11	34	3410	2	16	0.11	99	30	26	40	<10
548426	2180	3	1.31	64	1150	<2	12	0.29	107	50	64	30	10
548427	2845	5	0.32	28	740	<2	12	0.24	89	30	28	30	<10
548428	115	<1	0.25	12	200	<2	8	0.14	52	<10	22	30	<10
548429	3530	2	0.76	32	740	<2	27	0.19	69	40	26	10	10
548430	2590	<1	1.40	30	680	<2	217	0.20	46	10	52	70	<10
548431	1865	4	2.24	43	1260	<2	40	0.32	167	30	56	30	<10
548432	930	1	4.13	104	610	8	191	0.28	65	10	120	40	<10
548433	2235	2	1.17	349	760	4	128	0.34	142	<10	350	40	<10
548434	2860	<1	1.92	79	660	<2	314	0.17	52	20	198	<10	40
548435	6035	1	0.66	41	580	12	154	0.18	46	20	26	10	<10
548436	1670	2	3.12	18	890	<2	32	0.20	76	20	22	180	<10
548437	2045	<1	2.84	19	900	<2	51	0.27	78	30	20	30	<10
548438	2290	2	1.88	25	840	<2	31	0.27	136	30	24	30	<10
548439	1705	1	1.49	13	1680	<2	17	0.24	99	30	14	50	<10
548440	1460	7	0.28	20	1700	<2	18	0.25	139	40	26	80	<10
548441	2620	4	0.96	19	800	<2	30	0.21	57	30	20	10	10
548442	2835	1	2.17	21	930	<2	36	0.29	121	30	34	<10	20
548443	4190	9	0.29	24	830	<2	28	0.19	90	30	24	180	<10
548444	1760	<1	0.23	20	760	4	23	0.22	62	20	28	30	10
548445	2005	5	0.27	45	1520	4	16	0.30	95	30	38	100	<10
548446	2330	2	0.37	27	800	<2	17	0.24	63	20	24	120	<10

CERTIFICATION: *B. Caulfield*



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Total Pages : 10
Certificate Date: 29-SEP-92
Invoice No. :
P.O. Number :
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Project : FAIRCHILD LAKE OLYMPIC
Comments: CC: MURRAY JONES CC: DAVID CAULFIELD

	Au ppb	Ag ppm	Al %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
548464	65	<0.2	5.78	770	<0.5	12	4.49	0.5	31	73	3750	8.08	5.90	2.46
548465	35	<0.2	6.97	1500	<0.5	<2	2.40	0.5	29	60	1322	7.40	4.69	3.32
548466	10	<0.2	6.90	2710	<0.5	2	2.92	<0.5	15	69	62	4.19	5.90	2.37
548467	10	<0.2	7.08	510	<0.5	4	3.46	<0.5	33	57	14	5.75	5.06	2.33
548468	5	<0.2	6.55	940	<0.5	6	3.62	<0.5	54	100	1010	6.00	4.70	2.01
548469	15	<0.2	7.21	370	<0.5	<2	3.37	<0.5	17	78	139	7.09	5.82	1.87
548470	30	<0.2	6.39	510	<0.5	6	3.71	<0.5	16	67	1554	6.17	6.22	2.15
548471	<5	<0.2	7.43	950	<0.5	6	1.45	0.5	39	37	26	5.57	7.17	2.01
548472	10	<0.2	5.97	940	<0.5	6	3.29	0.5	14	81	59	5.80	6.20	3.29
548473	20	<0.2	6.82	1100	<0.5	<2	2.45	0.5	18	90	171	6.15	7.62	2.44
548474	5	<0.2	7.84	810	<0.5	<2	1.88	<0.5	22	63	10	5.61	8.12	1.24
548475	<5	<0.2	5.29	720	<0.5	<2	6.36	0.5	12	51	13	6.42	5.55	4.32

CERTIFICATION:

B. Caulfield



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PHONE: 604-984-0221

TO: PAMICON DEVELOPMENTS LIMITED

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

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

OLYMPIC

Page Number : 10
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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
548464	2400	6	0.20	14	690	<2	50	0.27	91	60	26	20	20
548465	1430	30	0.23	34	780	<2	37	0.43	269	40	34	90	<10
548466	1125	3	0.22	26	780	<2	61	0.25	53	10	12	80	<10
548467	1465	3	0.22	21	750	<2	23	0.20	65	30	12	180	<10
548468	3050	8	0.34	25	630	<2	33	0.18	52	30	18	40	<10
548469	1770	6	0.18	28	780	<2	20	0.15	90	30	14	60	<10
548470	2150	16	0.19	19	820	<2	23	0.32	120	40	16	50	<10
548471	575	3	0.27	21	1270	<2	18	0.60	230	20	22	60	<10
548472	1650	2	0.21	23	720	<2	22	0.20	73	30	28	20	10
548473	1380	4	0.20	21	900	<2	21	0.29	123	20	26	20	20
548474	1275	3	0.23	17	1000	<2	17	0.35	174	10	12	30	10
548475	1985	6	0.19	26	750	<2	29	0.19	120	30	24	<10	30

R.C.P.

CERTIFICATION

APPENDIX F

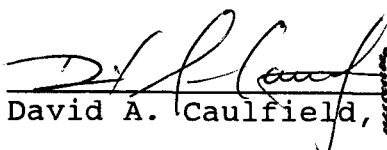
GEOLOGIST'S CERTIFICATE

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 14th day of December, 1992.


David A. Caulfield, P. 