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GEOCHEMICAL AND GEOLOGICAL ASSESSMENT REPORT

ON THE

LADYBUG GROUP

NORTH SHUSWAP AREA

NTS 082M/03E, LAT. 51°, 05' N., LONG. 119°, 06' E.

KAMLOOPS MINING DIVISION

by

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AUGUST 31, 1998

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SUMMARY

The Ladybug Group is located in the Kamloops Mining District, on NTS map sheet 082M/03 at Lat. 51° , 05' N., Long. 119° , 06' E., near the northwest shore of Shuswap Lake, some 40 km northeast of Chase, B.C. The Property consists of 70 units in 18 claims and covers 1,750 hectares.

The Property has been extensively logged after a large fire in the late 1960's, and can be accessed by numerous logging roads originating from the northwest shore of Shuswap Lake. Access to the north shore is via a paved road departing from Squilax on the Trans Canada Highway east of Chase.

The claims cover a northeast trending segment of what has been mapped as moderately to highly metamorphosed Eagle Bay Assemblage rocks which are part of the Kootenay Arc miogeoclinal continental derived sediments and volcanics of upper Proterozoic to lower Palaeozoic age. These rocks have been deformed by mid-Mesozoic compressional and late Mesozoic and Tertiary extensional tectonic activity.

They have been intruded by several pulses of intrusive activity from Devonian to Tertiary times. The Tertiary intrusives occur as resistant dykes and sills that outcrop as linear ridges in otherwise extensively Pleistocene aged glacial till covered areas.

The Eagle Bay rocks host numerous Kuroko, Besshi and sedimentary exhalative (shale and carbonate hosted) massive and disseminated sulphide deposits. These are the primary exploration targets on the Property.

Exploration history of the Property is unknown and assumed to be short. No public reports of exploration in the area have as yet been located prior to staking this Property. In the 1970's a large, 1 by 2 meter boulder of what appears to be a cross section through a massive sulphide lens was discovered by Hugh Reid of Chase. Samples of massive sulphide from this boulder (subsequently) returned up to 2.7% zinc, 0.3% lead, and 95 ppb gold.

The Property was initially staked by Mr. David Pipe and Norman Stephanishin of Kamloops. They completed prospecting and rock sampling in thinly overburden covered areas, preliminary moss mat and silt sampling, soil sampling and reconnaissance ground magnetic surveys close to and along the existing logging roads. They discovered many copper, zinc, lead silver +/- gold showings, anomalous soils and mossmat anomalies over a 6 kilometer strike length. Values ranged up to 0.3% copper, 1% zinc, and 15 g/t silver. Quartz vein float anomalous in gold (230 ppb) was found.

In 1996, Mr. Pipe retained the writer for a one day examination of the Property. In searching for the reported boulder, an outcrop of weathered manganese rich disseminated sphalerite bearing siliceous calc-silicate rock measuring about 15 meters by 2 meters was discovered in a swamp near where the reported boulder was apparently located. Two chips were taken, one returned 2.8% zinc and 27 g/t silver. Later that season, a 15 meter long discontinuous chip sample was taken of the outcrop. This 10 kg. sample returned 0.9% zinc and 34 g/t silver. The exposure appears to be relatively uniform and retreats under overburden in all directions.

In 1998, the writer and Mr. Pipe completed detailed geological mapping and sampling programs of 4 areas containing previously discovered zinc, lead, copper, silver or gold mineralization. Reconnaissance sampling was also completed on the southeast slopes of Mount Fowler. Results are encouraging, with samples reporting up to 4% zinc and 2.5% lead and 110 g/t silver being taken. The most favourable rocks are melanocratic green stratabound calc-silicate beds hosting sphalerite, galena, chalcopyrite and magnetite mineralization as fine to medium grained disseminations and stringers. The best mineralization is often closely associated with a finely banded chert, and pyritic schists. All lithologies are tightly folded with northeast striking southeast plunging fold axes. A secondary northwest striking folding is locally dominant. The chert sometimes forms resistant exposures that outcrop above the till sheet.

Work required to further explore these new discoveries are grid establishment, ground magnetics, VLF? and IP surveys, soil sampling, rock sampling, blast and backhoe trenching followed by diamond drilling of the best delineated targets. This pre drill stage multiphased program would cost a recommended \$75,000 dollars.

INTRODUCTION

The following report documents the findings of the 1998 geochemical sampling and geological mapping program completed during May and June 1998 on the Ladybug Property and makes recommendations for additional exploration expenditures to develop these new mineral discoveries.

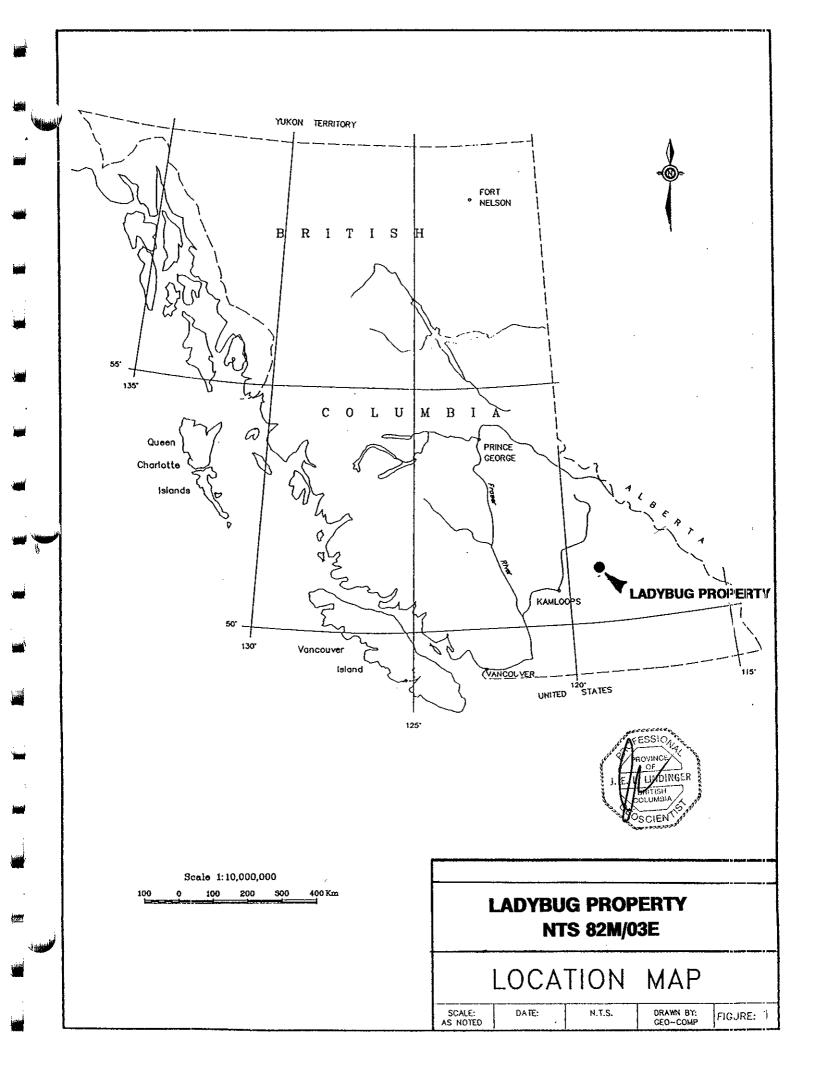
LOCATION AND ACCESS

The Ladybug Group is located on NTS map sheet 082M/03E at Lat. 51°, 05' N., Long. 119°, 06' E., near the northwest shore of Shuswap Lake, some 25 km northeast of Chase, B.C. Road access to the Property is good. Travel to the Property from Kamloops is east on the Trans Canada Highway for about 70 km to Squilax, east of Chase, onto the Squilax Anglemont road for 30 km to Ruckle Point then onto the Ross Creek (5 Mile Flats) logging main for 12 km.

Numerous drivable, partially deactivated logging roads cross through the Property.

CLIMATE TOPOGRAPHY AND VEGETATION

The Property is located in the Shuswap Highland Physiographic region. The climate of the area is generally wet with heavy winter snowfalls. The tree line is at about 1900 meters. The Property covers the east side of Mount Fowler (elevation of 2050 meters). The lowest point is at 1100 meters at the southeast corner of the claims in the Ross Creek drainage. The center of the Property covers a large north northeast trending moderately east sloping bench (5 Mile Flats-1500 meters elevation) with steeper east facing slopes rising to Mount Fowler to the west and down to Shuswap Lake 3.5 km to the east (elevation 350 meters). Vegetation is upland fir, hemlock, cedar and spruce. Much of the area was burnt about 25 years ago. Logging is a continuing activity. The patchy second growth on the property is 4 to 7 meters tall. Thick alder growth cover disturbed areas from past logging activities.



PROPERTY

The Ladybug Property comprise the following contiguous mineral claims. The claims are located in the Kamloops Mining Division.

TABLE 1 - MINERAL TENURE

NAME Ladybug 1 Ladybug 3 Ladybug 4 LB 1 LB 2 LB 3 LB 4 LB 5 EYE 1 EYE 2 Russ 1 Russ 2 Russ 3 Russ 4 Lady 1 Lady 2	RECORD NO. 337286 337287 337288 337290 337290 337290 337291 337292 337293 337293 337294 337295 337295 337296 337296 337297 337298 337299 361613 361614	# OF UNITS 20 15 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EXPIRY* June 22, 1999 June 23, 1999 June 24, 1999 June 21, 1999 June 21, 1999 June 21, 1999 June 21, 1999 June 21, 1999 June 25, 1999 June 25, 1999 June 24, 1999 June 24, 1999 June 24, 1999 June 24, 1999 March 12, 2000 March 12, 2000	HOVINGER BAITISH BAITISH OS CIEN Dawn
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Lady 2 Lady 3	361615	1	March 12, 2000	
Lady 4	361616	1	March 12, 2000	

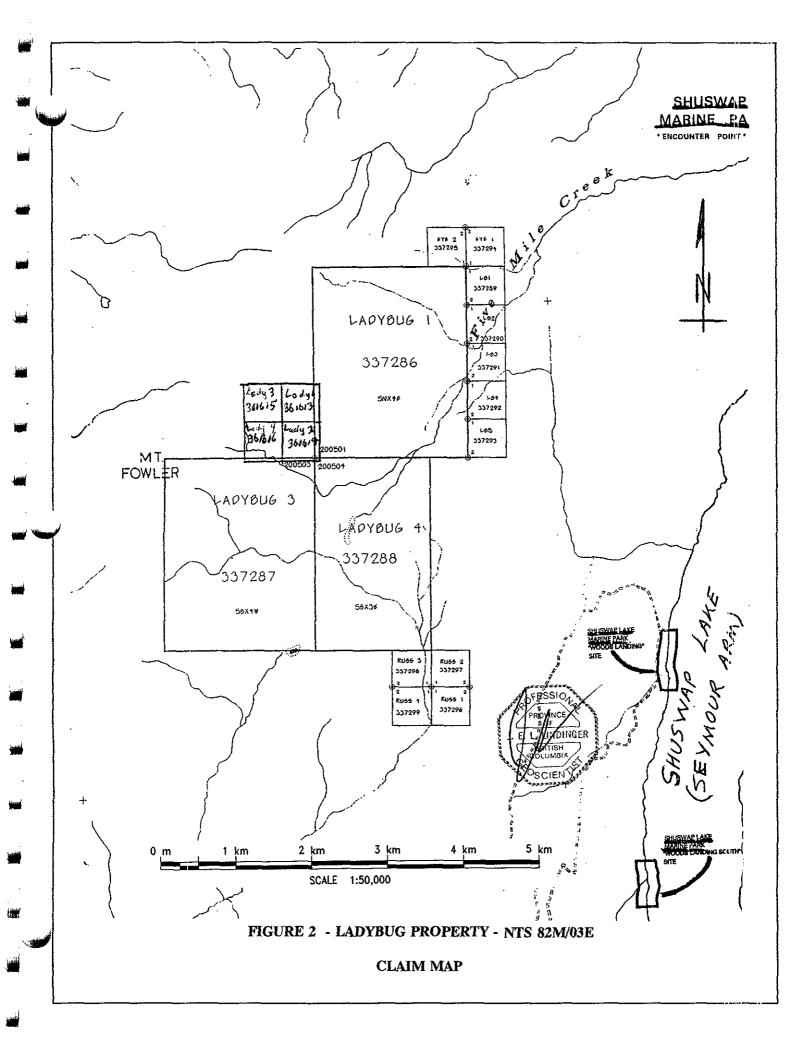
The mineral claims comprise 70 units and cover 1750 hectares.

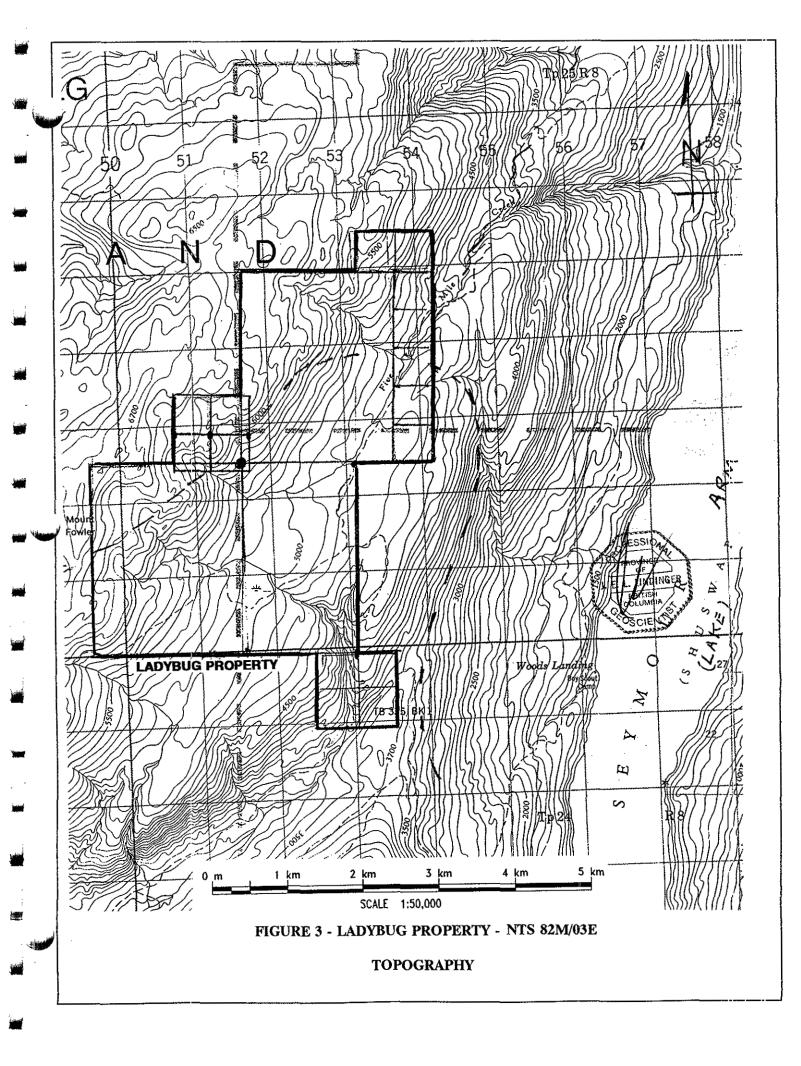
These mineral claims are grouped as the Ladybug Group (March 16, 1998 - Event# 3116746).

* - with acceptance by the Ministry of Energy and Mines of the work this report documents.

HISTORY

Although there are numerous small showings on the Property, and the area has undergone logging over the past 20 years, no known recorded private industry exploration work has been revealed to date. However, with prospecting and mapping, it is obvious that some of the mineralized showings on the property had received prior





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attention, probably during the very late 1960's and early 1970's when the area was first logged after a large fire in 1967.

During the 1970's a Mr. Hugh Reid of Chase, B.C. was reported to have found or known the location of a large massive sulphide (pyrite-sphalerite) boulder on 5 Mile Flats. A federally funded regional silt survey conducted in 1976 as part of a uranium exploration project revealed that the area was anomalous for copper, lead, zinc, and manganese. Silver and gold were not analyzed for in this survey until the British Columbia Geological Survey reran these samples in 1990. No significant gold or silver anomalies were found on the area now covered by the Ladybug group.

In the early 1990's Mr. Norman Stephanishin of Kamloops BC became interested in the area based on the findings of Mr. Reid.

In 1994 Mr. Stephanishin formed a partnership with Mr. David Pipe also of Kamloops and prospected the 5 mile flat area.

Based on their findings they decided to stake the area as the Ladybug Group in June 1995. In 1996 they received a government sponsored prospecting grant for work on the claims. They located many new mineralized outcrop and float occurrences reporting anomalous zinc-silver-lead and copper.

In August 1996 they retained the writer for a one day property examination. Mr. Pipe, in the company of the writer discovered a 15 meter exposure of zinc mineralized siliceous material that when sampled returned 0.9% zinc, 34 g/t silver, 0.2% lead and over 1% manganese.

In May and June 1998 the writer (now in partnership with Mr. Pipe (Mr. Stephanishin had resigned in 1997)) completed a geochemical sampling and mapping program of known outcrop exposures containing mineralization the property.

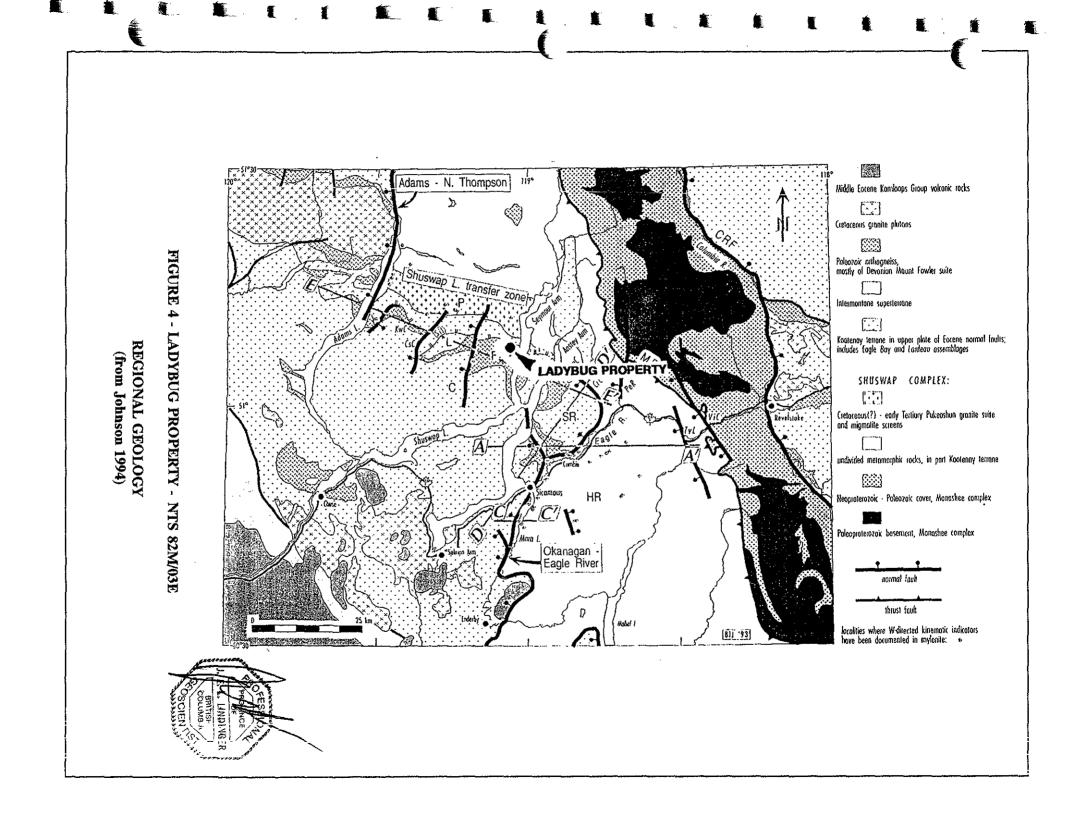
REGIONAL GEOLOGY

The Shuswap Lake area is within the Shuswap Highland region of the Intermontane Physiographic Province. The area is underlain by near shore miogeoclinal continental derived sediments with minor volcanic rocks of the upper Proterozoic to lower Palaeozoic Eagle Bay Assemblage of the Kootenay Terrane. This assemblage has been overlain in part by the Oceanic Fennell Formation west of Adams Lake. These rocks have been intruded and/or underplated by late Devonian Orthogneiss (Wheeler et. al. pp 283-284).

The subsequent tectonic history is complex. H. Gabrielse, pp 607 ... "They include southwest verging folds and thrust faults in the Kootenay Terrane north of Okanagan Lake"...". The oldest structures in the Adams and Shuswap Lake area are pervasive foliations subparallel with bedding, rare tight isoclinal sheared recumbent folds... ... foliation is tightly folded about axes trending north to east-northeast"... Various authors have interpreted as much as six west verging thrust faults that have structurally overlapped segments of the Eagle Bay between Sicamous and the North Thompson River. Much of this deformation is interpreted to have taken place in the Jurassic with the accretion of Quesnellia onto North America. In the Shuswap Lake area the Eagle Bay rocks have been subject to upper greenschist to locally migmatitic metamorphic grades.

They have been intruded by several pulses of granitic rocks ranging from Jurassic to Tertiary in age. The latter intrusives are, in part temporally coincident with Cretaceous to Tertiary dextral transtensional activity that characterises itself in the Shuswap Lake area by north trending brittle normal faulting with large vertical displacements.

Erosion since the mid-Jurassic has exposed rocks up to sillimanite metamorphic grade.



Pleistocene glacial drift varies from very thin to locally deep.

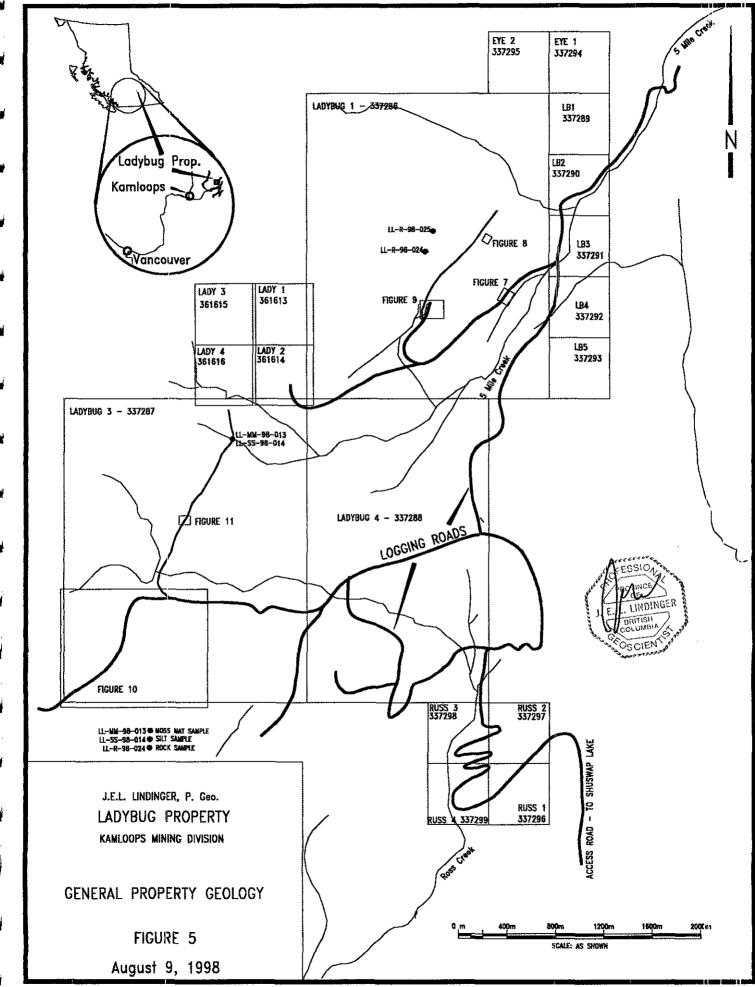
PROPERTY GEOLOGY

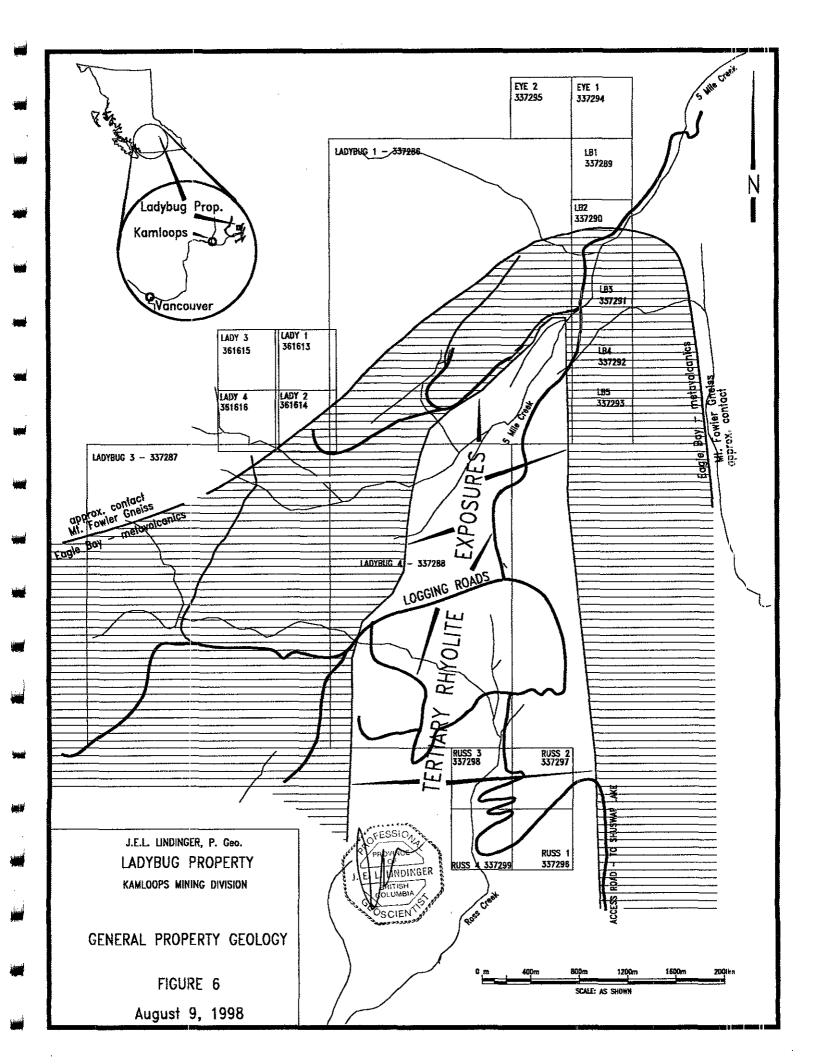
Regional mapping suggests that the claims cover a northeast trending segment of mafic volcanic and subaqueous sediment provenance schists and gneisses of the Eagle Bay Assemblage (Johnson 1994, p 69). These rocks may be part of a southwest plunging east dipping synform generated by Jurassic compressional activity. Geological mapping and prospecting activity on the Property indicates that the Eagle Bay rocks are northeast striking and moderately to steeply southeast dipping with a tight northwest striking secondary fold axes.

The Eagle Bay rocks have been intruded by the Devonian? aged Mount Fowler Orthogneiss. Johnson, page 72, describes the orthogneiss, ..."Granitoid gneiss of the Mount Fowler suite forms extensive discordant sheets with the Eagle Bay assemblage"... ..."The gneiss ranges in composition from quartz diorite to tonalite gneiss. Biotite (plus locally hornblende and epidote) constitutes up to 25% of the rock and commonly forms thin lenticular aggregates. Highly sheared gneiss in the southern Shuswap Range contains muscovite and chlorite as well as biotite.

Rare intrusive relationships have been observed between the Mount Fowler gneiss and the Eagle Bay"... ..." assemblage, generally consists of screens of country rock in the gneiss or sills of orthogneiss in country rock. Calc-silicate rocks"... ..."near covered contacts with the gneiss commonly contain quartz-calcite-actinolite-epidote skarn zones interpreted as resulting from contact metamorphism. To what degrees the relatively straight map scale contacts have been modified by shearing is uncertain"...

Parts of the Property is covered by Eocene or Miocene felsic to intermediate hornblende porphyry dykes and sills and possibly flows. These bodies form resistant ridges that often outcrop above the drift cover.





Glacial till is highly variable on the Property ranging from nil to over 20 meters thick. It is however very extensive covering over 95% of the area.

Please refer to Figure 4 for property scale sample locations.

Virtually all of the known mineralization is located on the Ladybug 1 claim.

The mineralization observed to date on the Property occur as four different types.

The oldest type were originally interpreted to be syngenetic sulphide deposits of submarine exhalative volcanic? origin. Recent mapping however indicates that all of the known zinc, lead, silver, copper magnetite and manganese mineralization is associated with calc-silicate (epidote, chlorite, tremolite?) bearing rocks that are spatially associated with pyritic schist, finely banded chert, carbonate and mafic gneisses in order of dominance. The mineralization occurs as fine to medium grained disseminations and stringers. The metals located to date in order of prominence are zinc, manganese, lead, iron and copper sulphides. Magnetite is locally common, often with minor amounts of chalcopyrite. The zinc, lead, manganese and silver mineralization are associated with melanocratic green calc-silicate rock. The magnetite with chalcopyrite mineralization is hosted by siliceous lenses and bands that can have spatial associations with the zinc, lead bearing zones. This style appears to have more in common with Kootenay Arc style carbonate hosted syngenetic? sulphide mineralization.

The second style of mineralization is commonly associated with the first type and is characterized by late angular brittle fractures filled with sulphide veins. The writer assumes that this style is a late remobilization of earlier disseminated mineralization into post metamorphic brittle fractures. One such exposure returned 2.5% copper and 87 g/t silver (sample 96-4).

The third style of mineralization is found on the southwest side of the Property on the Ladybug 4 claim. Pyritiferous quartz (+/- calcite) veins and breccias that are anomalous in gold (sample 94-1 returned 280 ppb gold). The age and style of these veins is Jurassic? aged mesothermal syndeformational northeast striking, steeply dipping tension gashes up to 4 meters long by 40 cm wide on surface and of unknown vertical extent. Sulphide mineralization occurs as coarse aggregates within, and more often along the vein contact.

The fourth type of mineralization are polymetallic quartz-galena-sphalerite veins in late stage brittle fractures apparently associated with Tertiary intrusives and with no apparent association with syngenetic mineralization. This style of mineralization is found on the Russ claims but are common further south and west of the property. Sample 94-4 on the Russ claims returned 15.4 g/t silver, 0.8% zinc, and 0.7% lead.

1998 WORK PROGRAM

The work program completed on the property was designed to improved the economic potential of the property by focused exploration on the known mineralized target areas with additional rock sampling and detailed mapping. Five areas were targeted; the main or Blackjack showing area on the Ladybug 1 claim, the area of the sediment sample that returned highly anomalous silver and manganese on the Ladybug 3 claim, the area of the anomalous gold in quartz vein on the Mount Fowler Road and also on the Ladybug 3 claim, the "Big Mag" showing, and the area on the west side of the Ladybug 1 claim on the lower slopes of Mt. Fowler which returned several anomalous copper-silver anomalies.

1998 EXPLORATION RESULTS

The 1998 exploration greatly expanded both the geological knowledge and the economic potential of the property. As discussed in the previous section "Property Geology" the

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lithologies containing the bulk of the known mineralization are northeast striking, steeply to moderately southeast dipping metasediments, and mafic metavolcanics of the Eagle Bay assemblage. A secondary northwest striking isoclinal folding is locally apparent, particularly in the Blackjack showing area. The rocks have undergone amphibolite grade metamorphism. Eagle Bay rocks in order of dominance are dark grey phyllite (EBphy), grey quartz sericite schist(EBss), pale grey rusty weathering siliceous pyritic schist (EBssp), melanocratic amphibolite gneiss (EBmv), medium green and white banded intermediate metavolcanic? (EBvi), dark green light green weathering calc-silicate (chlorite, tremolite, epidote, quartz, carbonate) (EBcs), leucocratic finely banded chert (EBch), leucocratic dark brown weathering carbonate (EBcb), and siliceous magnetite +/- chalcopyrite gneiss (EBcsm). The calc-silicate rocks are further subdivided based on the observed dominant sulphide mineralization into sphalerite dominant (EBcsz), or galena dominant (EBcsp).

Tertiary "rhyolitic" intrusives vary from andesitic to syenitic and are feldspar +/hornblende porphyry in a very fine grained ground mass. There are at least three different phases with each successive phase slightly more mafic that the preceding one.

The mineralization styles has been described in the previous section under Property Geology. Mineralization was observed and sampled from widely spaced exposures over a 60 hectare area. Higher grade mineralization is invariably highly weathered and it was difficult to obtain relatively unoxidized and leached samples for analyses. However select chips and grabs reporting over 4% zinc, 2.5% galena, 110 g/t silver and over 1% manganese were obtained. A 25 cm chip sample (LL-R98-024) of an incompletely exposed moderately weathered calc-silicate layer returned over 3% zinc, and 3.4 g/t silver with anomalous copper, manganese and lead values.

The Blackjack showings (Figure 7) occupy a 100 by 100 meter area within which at least 7 different northeast striking southeast dipping variably mineralized calc-silicate zones

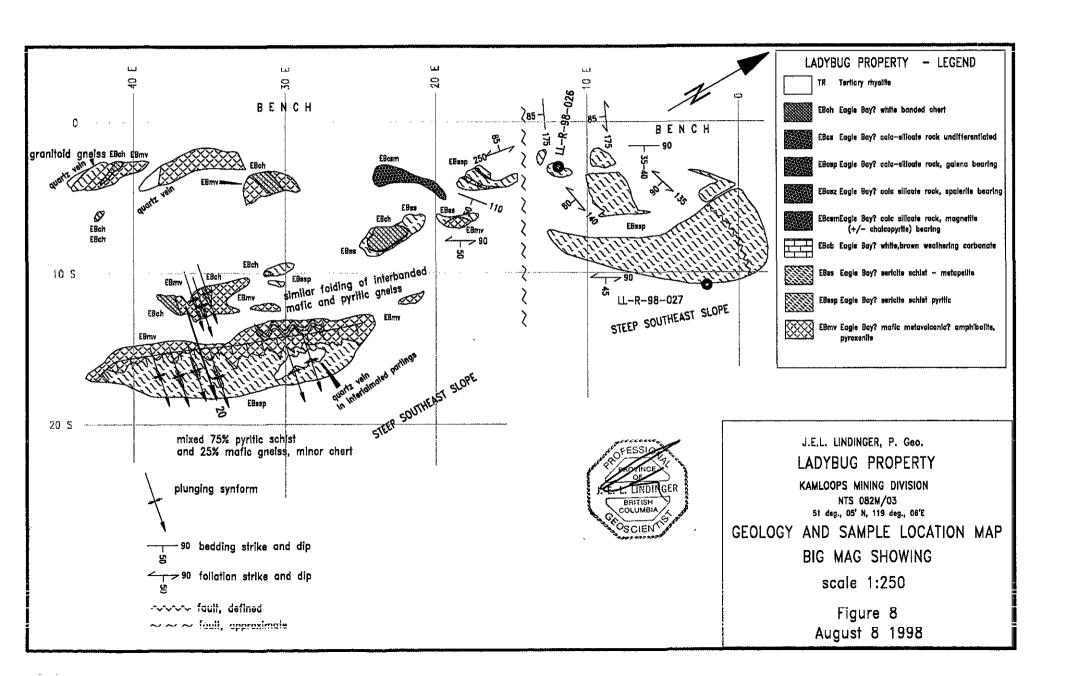
have been mapped. The zones vary from less than 20 cm to over 6 meters in thickness. In shape they appear to be southeast plunging isoclinally folded synforms that are sometimes truncated to the northwest (eroded off) and thicken and deepen to the southeast. The exposures are surrounded by a masking glacial till and are essentially open especially to the southeast and northeast. They would be truncated to the southeast by a large Tertiary felsic dyke, but may continue down dip on the other side of the dyke. The zones may be part of one or more individual beds of calc-silicate altered rock that are structurally repeated. If so, a bed at least 500 meters long by up to 5 meters thick may be inferred that carries grades of up to 4% zinc, 2.5% galena and over 100 g/t silver with lessor copper values. Manganese may average over 1% over the entire zone.

(A calc-silicate bed 500 meters by 500 meters by 1 meter thick would weigh about 700,000 tonnes)

The Big Mag showing (Figure 8) is a dominantly northeast striking steeply southeast dipping exposure of siliceous pyritic sericite schist with minor amounts of interbedded magnetite +/- chalcopyrite bearing calc-silicate rock. Weakly malachite-azurite stained pyritic siliceous schist reported up to 0.28% copper. and 5.4 g/t silver (LL-R98-027). Again sampling relatively unweathered material was difficult and required chipping through at least 15 cm of weathered surface material. This sample was taken at the extreme south end of the exposure and the zone is effectively open to the southeast, at depth and on strike to the northeast and southwest.

The Second Landing Area (Figure 9) hosts copper bearing calc-silicate or skarn rock reporting up to 2.7% copper from past programs. The rocks are northwest striking and nearly vertically dipping. Amphibolite gneiss, sericite schists, orange weathering ankeritized carbonate, calc-silicate rock and banded chert are found in order of dominance.

The Mount Fowler Road area (Figure 10) was explored based on the previous discovery of weakly gold bearing mesothermal pyritic quartz veins. The best values returned from



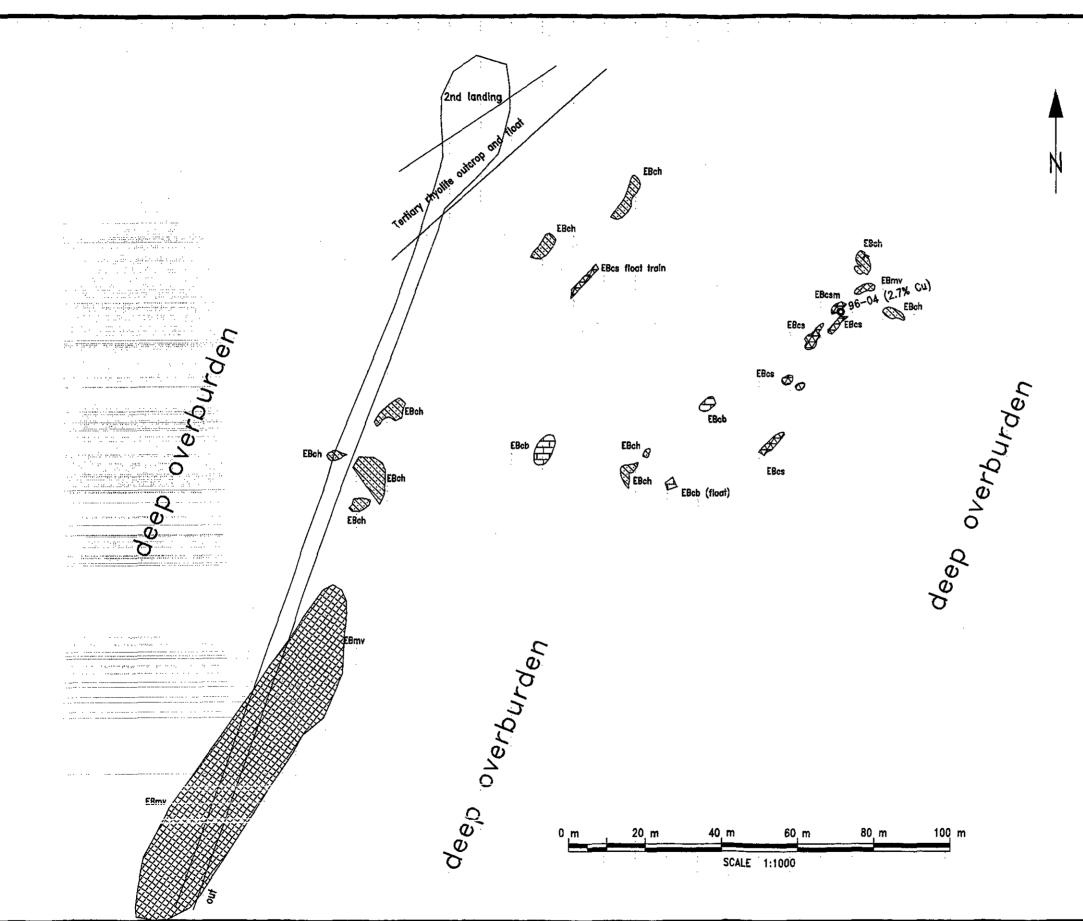
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LADYBUG PROPERTY - LEGEND TR Tertiory rhyolite EBch Eagle Bay? white banded chert EBcs Eagle Bay? calc-silicate rock undifferentiated EBcsp Eagle Bay? calc—silicate rock, galena bearing EBcsz Eagle Bay? calc silicate rock, spalerite bearing EBcsmEagle Bay? calc silicate rock, magnetite (+/- chalcopyrite) bearing EBcb Eagle Bay? while,brown weathering carbonate EBss Eagle Bay? sericite schist — metapelite EBssp Eagle Bay? sericite schist pyrific EBmv Eagle Bay? mafic metavolcanic? amphibolite, pyroxenite EBvi Eagle Bay? green & white banded int. volcat EBphy Eagle Bay? dark grey phylite lunging synform bedding strike and dip strike and die \sim \sim fault, approximate sample site, r (rock), se (soil) FSSIG Z. LINDINGER BRITISH OSCIEN J.E.L. LINDINGER, P. Geo. LADYBUG PROPERTY KAMLOOPS MINING DIVISION GEOLOGY AND SAMPLE LOCATION MAP SECOND LANDING AREA scale 1:1000 Figure 9 August 8 1998

this program was 20 ppb gold (LL-R98-010). Samples of pyritic ankeritically altered schist returned 45 ppb gold and weakly anomalous copper (LL-R98-011). About 1.8 km of the road was mapped.

The 705 Zone (Figure 11) is a series of northeast striking steeply dipping isoclinally folded lenses of strongly pyritic sericite schists hosted within siliceous weakly pyritic sericite schists in the north part of the Ladybug 3 claim.

Pyritic lenses up to 20 cm thick by over 5 meters long returned up to 336 ppm copper (LL-R98-022).

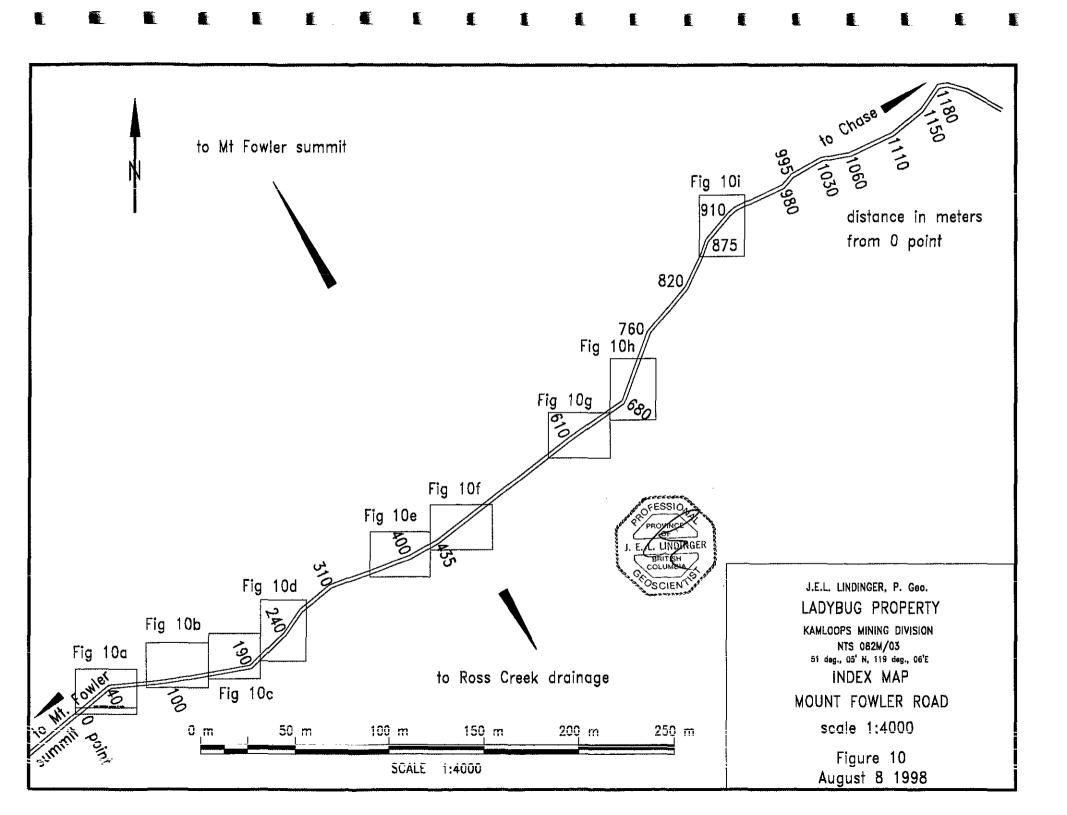
Other significant samples.

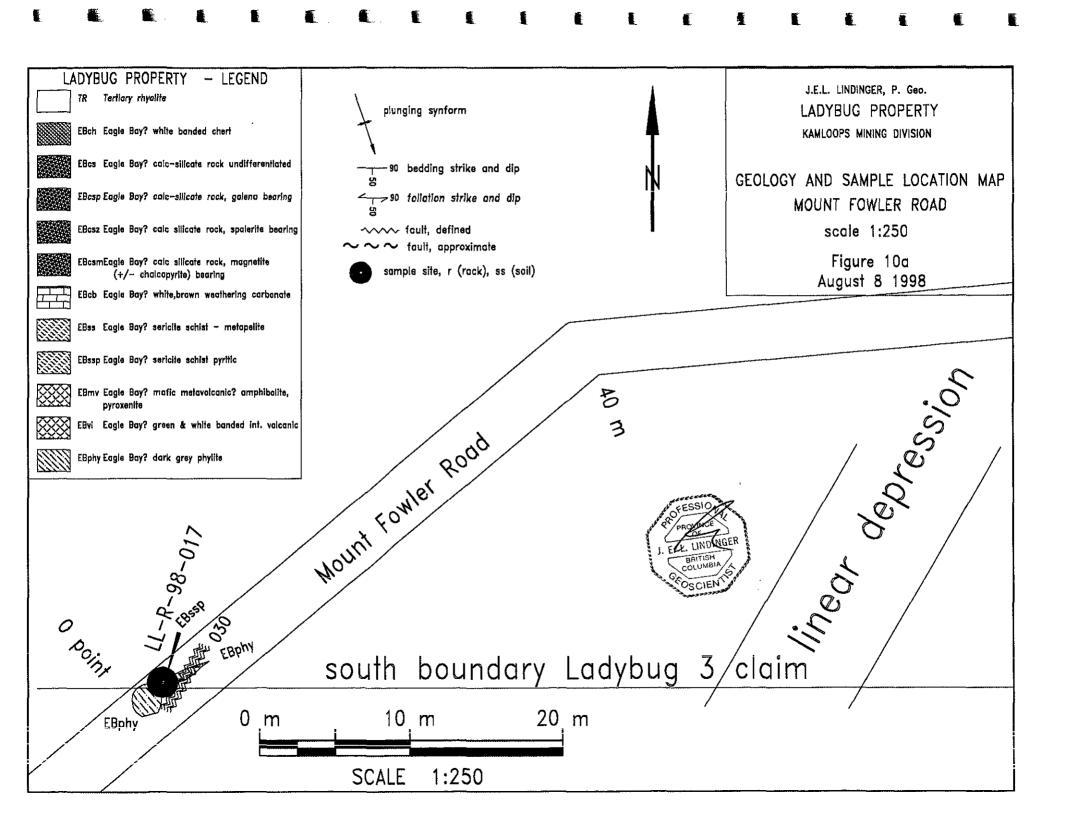
In the headwaters of 5 mile creek a large boulder of sericite schist containing a strongly pyritic quartz vein returned 35 ppb gold and 0.4 g/t silver.

Sample LL-R98-024 some 300 meters north of the second landing was a 15 cm chip sample of an exposure of banded calc-silicate rock identical to the Blackjack showing returned 0.7% zinc, 0.5% manganese, 0.1% lead and 20.2 g/t silver. This exposed zone is open in 3 directions. This area is uphill from other exposures of calc-silicate rock that returned favourable zinc, silver and copper values from earlier programs.

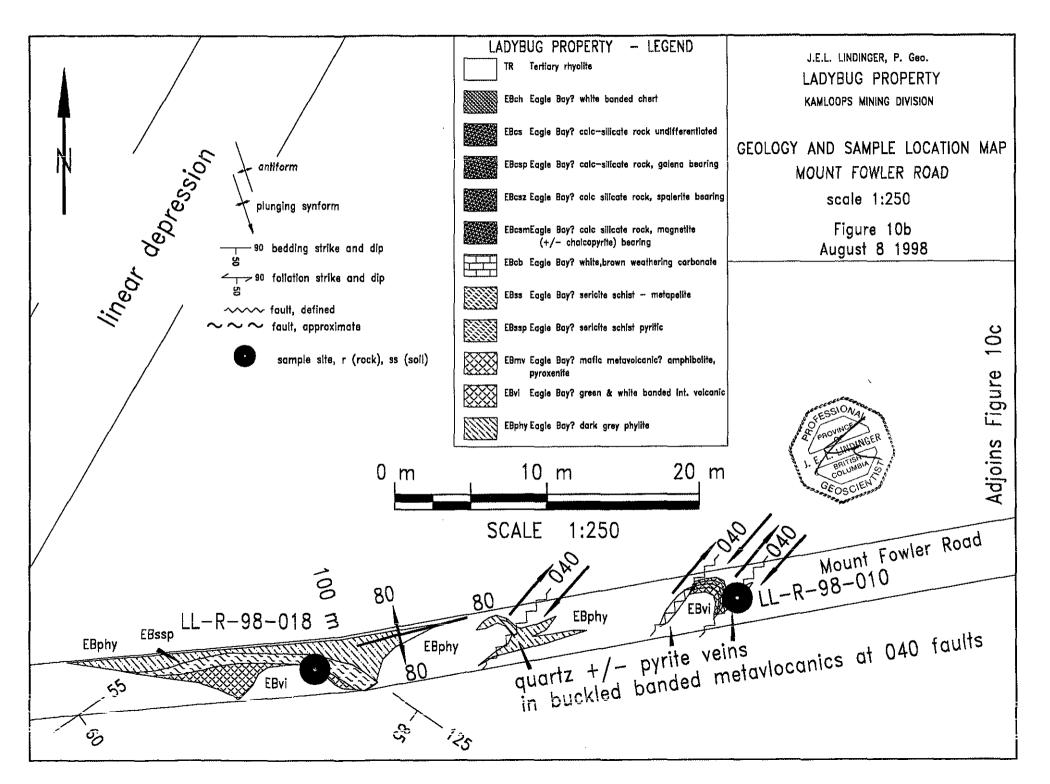
DISCUSSION

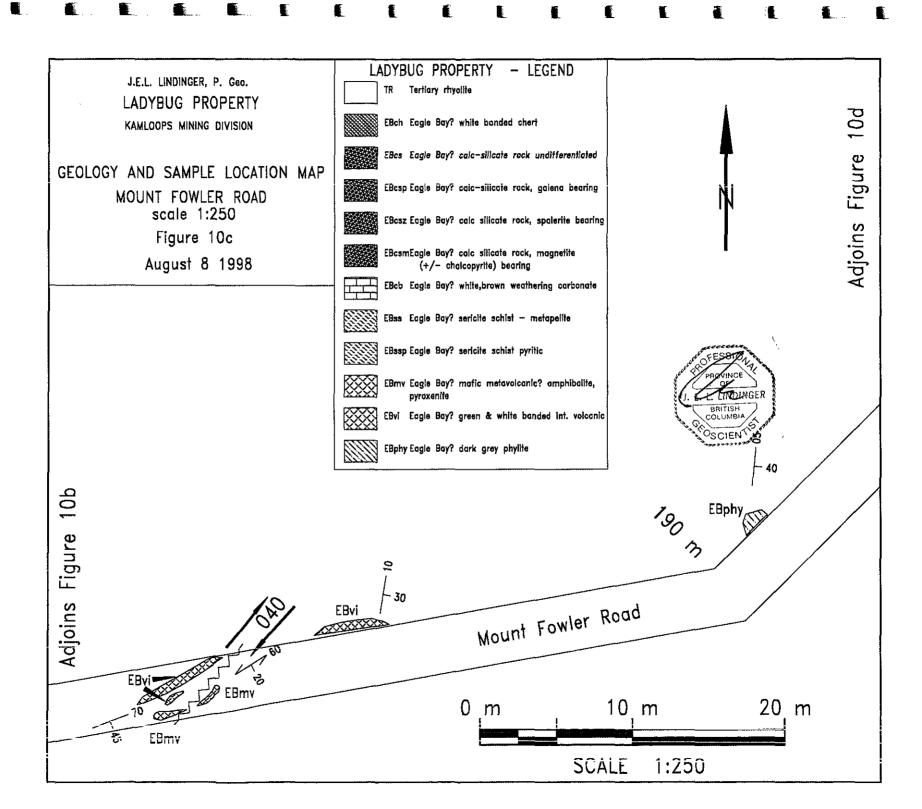
The zinc-lead-manganese +/- magnetite +/- chalcopyrite mineralization is associated with calc-silicate rocks that can be interpreted as skarn mineralization. However the mineralization styles associated with these rocks is atypical for zinc-lead skarn deposits. The known mineralization is quite variable "across strike", ranging from zinc-manganese, galena-zinc-silver-manganese and iron (magnetite)-copper suites. The best zinc values are often spatially adjacent to the finely banded chert, with the lead rich zones within the cores of the calc-silicate units. The magnetite-chalcopyrite bands have spatial affinities to pyritic schist, chert and carbonate bands.

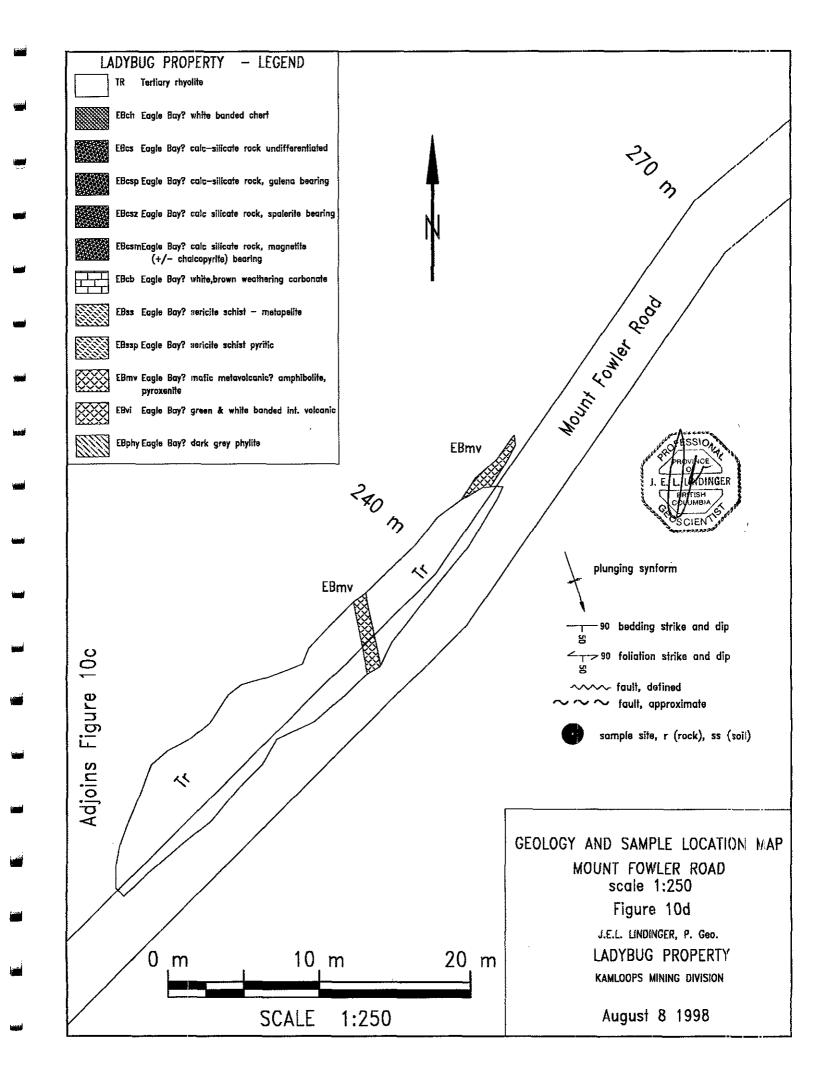


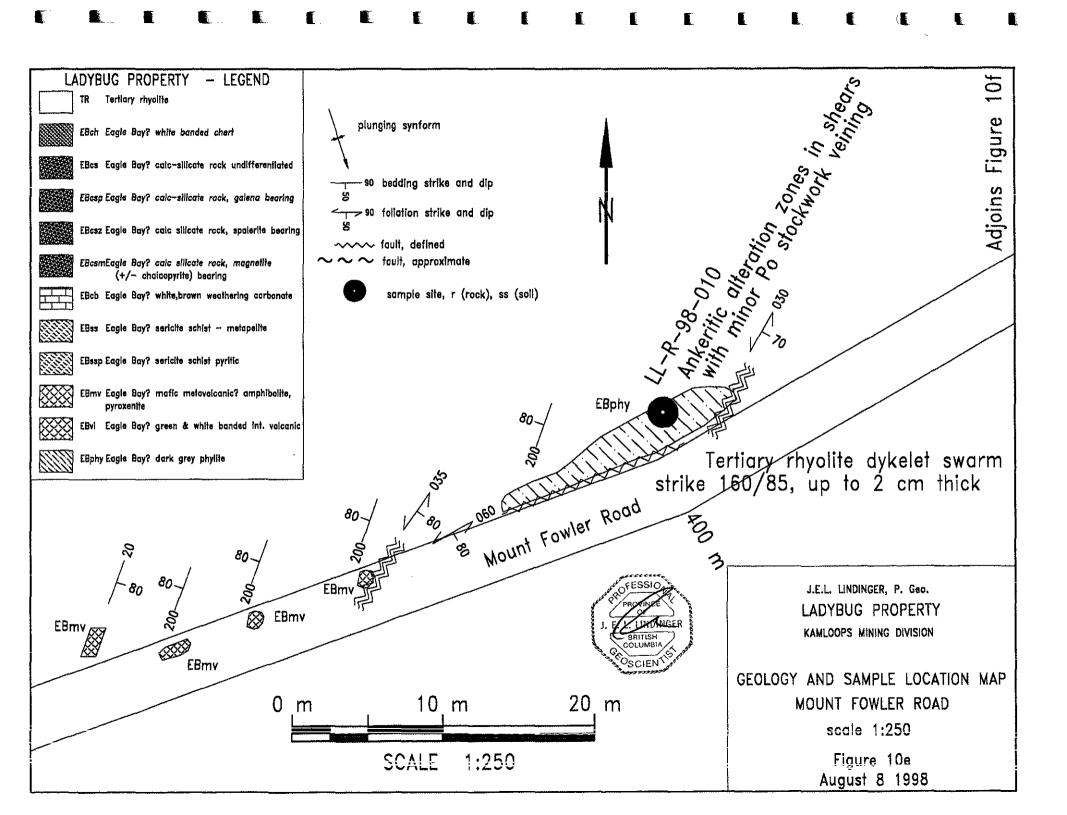


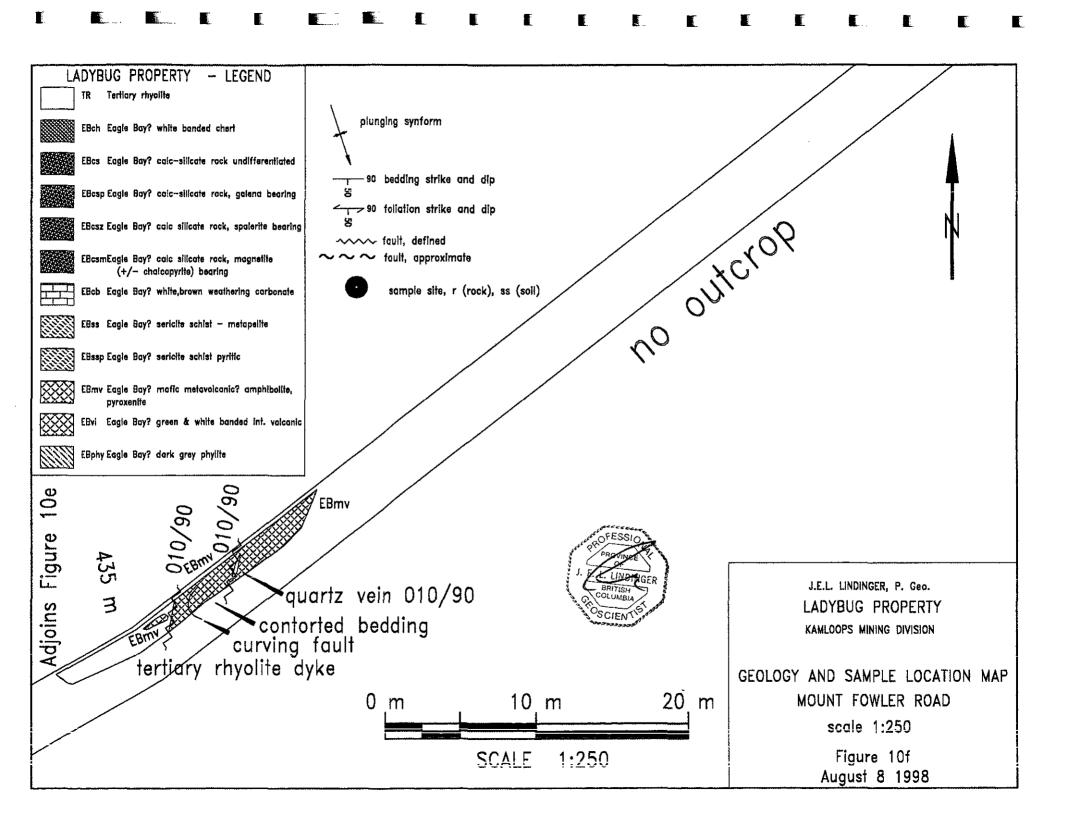


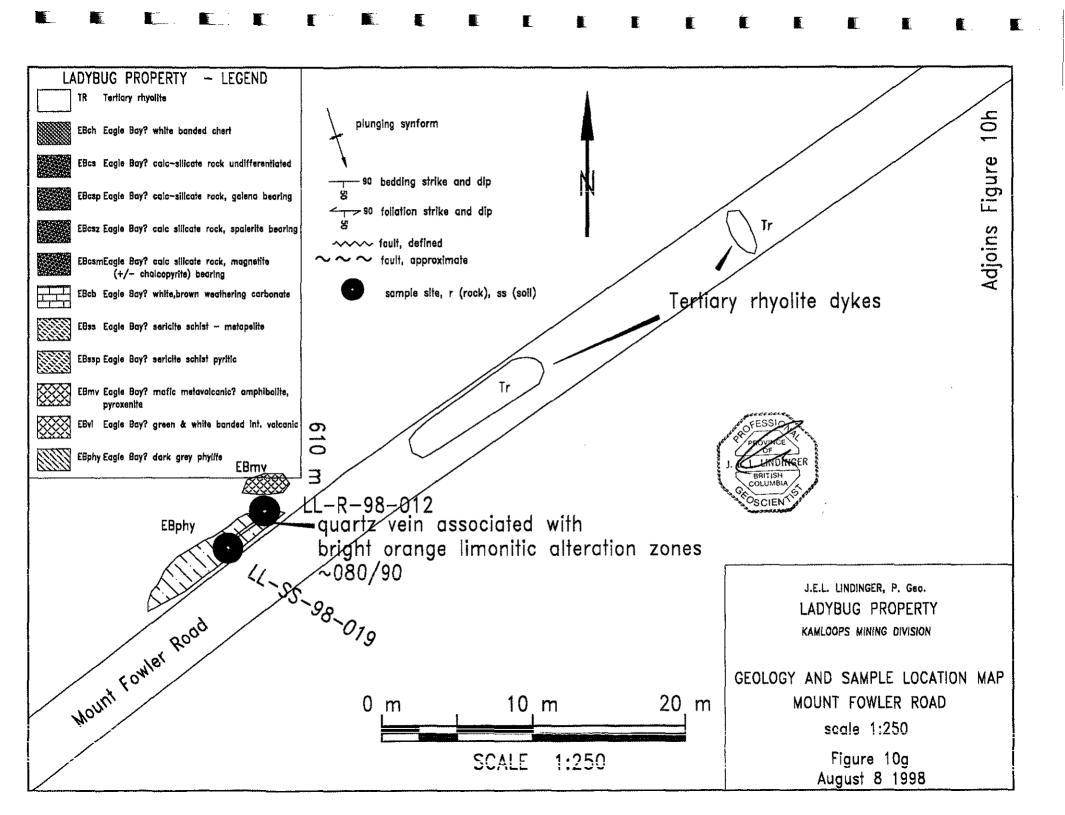


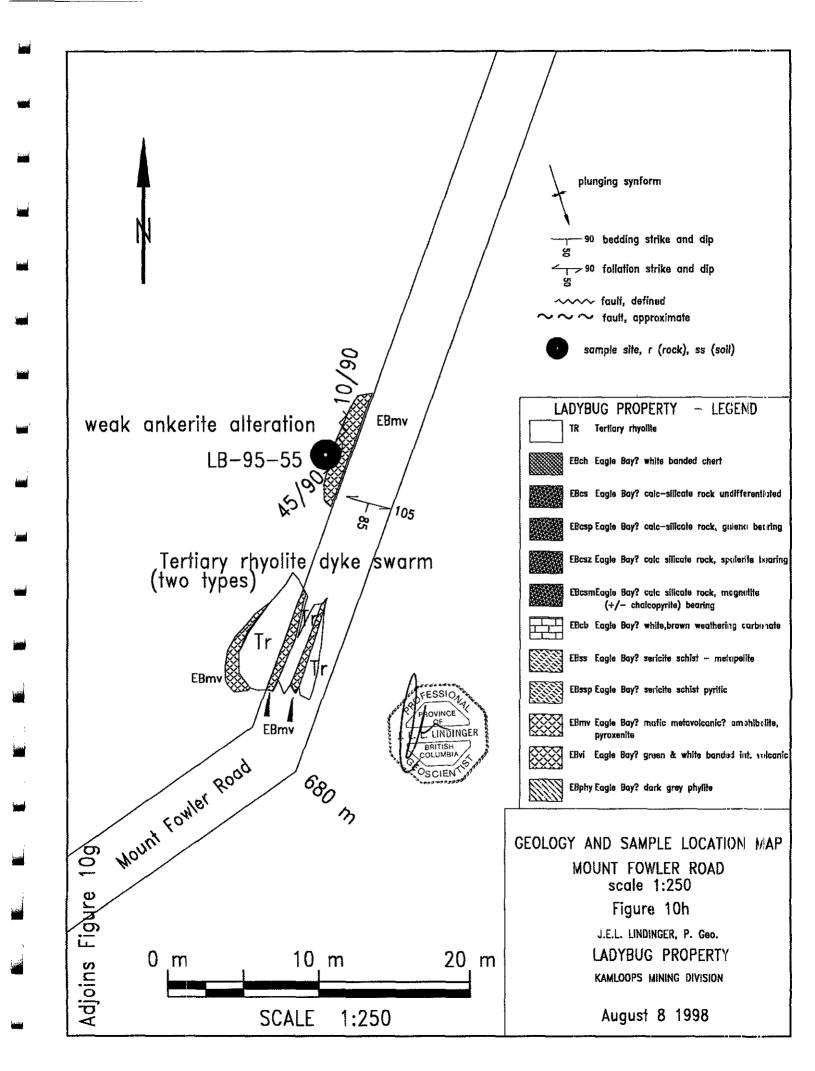


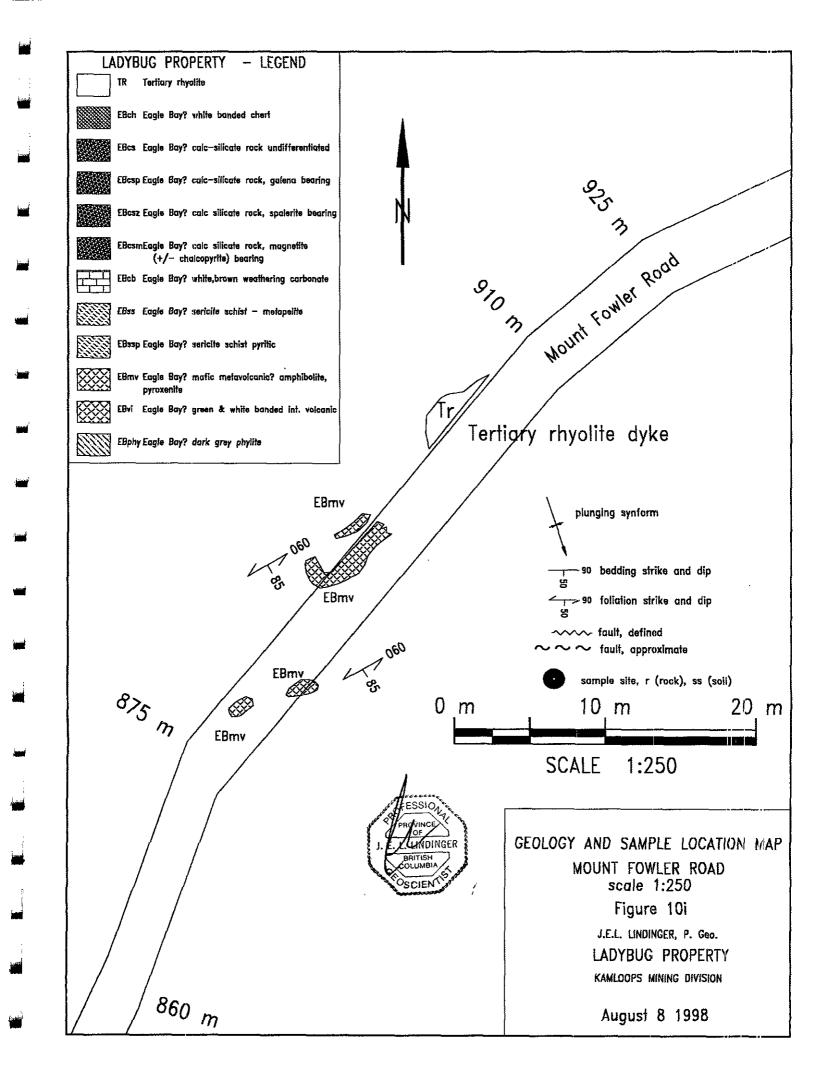


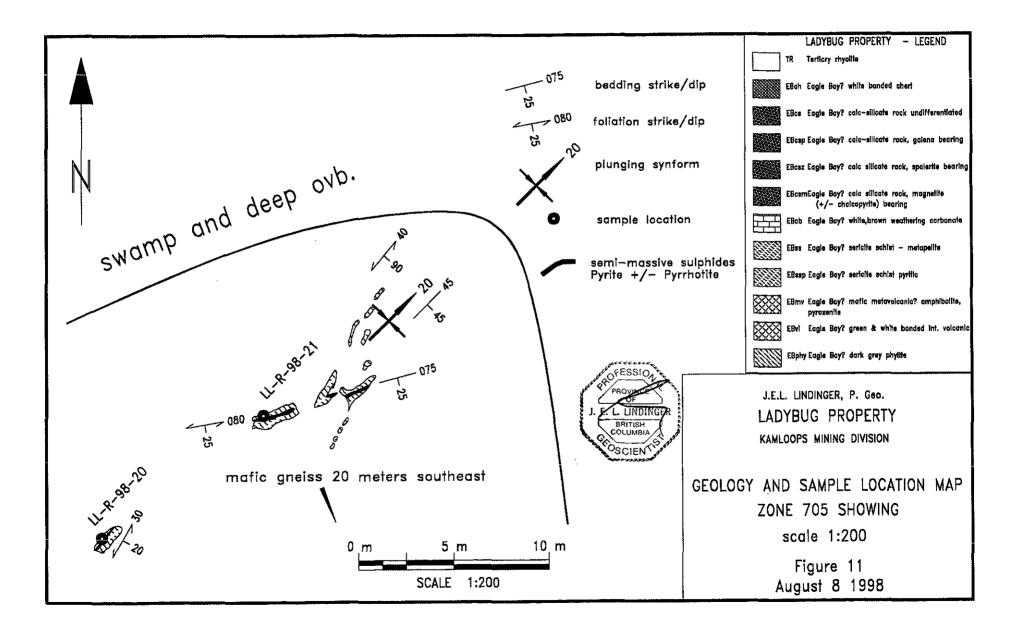












Based on these observations the mineralization may have similarities with Broken Hill type deposits (Stevens 1980, Mike Cathro Regional Geologist, Kamloops Mining District personal communication), the Balmat-Edwards deposits of New York State (Lea & Dill 1968?, Mr. Alan McNutt Senior Geologist, Rio Algom Inc. Vancouver, personal cumunication), or a disseminated version of Kootenay Arc type carbonate hosted sulphide deposits. This assemblage may have similiarities to the highly metamorphosed Ruddock Creek, and Cotton Belt deposits to the north and northeast. Both of these syngenetic sedimentary exhalitive deposits host sulphide mineralization that is spatially associated with calc-silicate rocks (Nelson, 1991). All deposits contain Archean to Paleozoic miogeoclinal litholgies that have undergone multiple ductile deformation episodes with amphibolite or greater grades of metamorphism in which carbonate bearing rocks have been metamorphosed into calc-silicate mineral bearing units. Interpreted syngenetic carbonate hosted base metal mineralization within these units has been recrystallized, smeared and in many cases partially remobilized into later stage brittle structures.

CONCLUSIONS

The Ladybug Property appears to cover a section of the Eagle Bay Assemblage that is prospective for volcanic? sediment and carbonate hosted syngenetic subaqueous sulphide deposits. Many new exposures were found, particularly on the Ladybug 1 claim over a 1000 by 500 meter area. The dominant mineralization found to date are disseminated sphalerite-galena-pyrite deposits hosted by dark green calc-silicate rocks. These zones have a low iron sulphide content and report up to 4% zinc, 2.5% lead, 2.7% copper and 110 g/t silver in selected chips or grabs and over 3% zinc over a true width of 25 cm. On the Ladybug Property all known exposures of calc-silicate rocks are mineralized. Outcrop exposure is less than 5%, and often less than 1% which are often resistant Tertiary intrusive bodies.

The anomalous gold in quartz veining and the highly anomalous silver-barium moss mat and silt samples from earlier programs could not be repeated to the levels previously reported.

Potential also exist for polymetallic veins and gold quartz veins.

RECOMMENDATIONS

To further explore the Ladybug Property, the following work is recommended. Road access can be improved by renting a small bulldozer to clear alders on existing roads on the Property. A property scale control grid oriented with the geology must be established, either in conjunction with a soil survey, but preferably prior to any surveys. As evidence for mineralization is fairly strong, a grid established to reconnaissance IP standard would provide a constant base for all future surveys. A backhoe trenching program to expose and extend the partially exposed mineralization is required. Blasting and hand trenching to expose unweathered mineralized rock in required. Following these surface programs drill testing the downdip extensions of the mineralization would be recommended.

A 1 stage, two phase program is envisioned.

Ph/Fax 250-554-6887, AutoTel/Fax 250-371-9961, Cellular 250-319-0717

LIST OF REFERENCES

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RENAISSANCE GEOSCIENCE SERVICES, 879 McQueen Drive, Kamloops, B.C. V2B-7X8 19 J.E.L. (Leo) Lindinger, P. Geo., FGAC, Consulting Economic Geologist

STATEMENT OF QUALIFICATIONS

I, J E. L.(Leo) Lindinger, hereby do certify that:

I reside at 879 McQueen Drive, Kamloops B.C.

I am a graduate of the University of Waterloo (1980) and hold a BSc. degree in honours Earth Sciences.

I have been practicing my profession as an exploration and mine geologist continually for the past 18 years.

I am a fellow in good standing with the Geological Association of Canada (1987).

I am a registered member, in good standing as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (1992).

I have a 50% ownership in the mineral property described as the Ladybug Group.

The observations and conclusions reached in the report are based in part on visual examination of most of the known mineralized areas on the Property, results of samples taken by the owners and experience gained in exploration and mining by the writer.

L. LINDINGER BITISH K MBMBI SCIEN

J.E.L.(Leo) Lindinger, P.Geo.

RENAISSANCE GEOSCIENCE SERVICES, 879 McQueen Drive, Kamloops, B.C. V2B-7X8 20 J.E.L. (Leo) Lindinger, P. Geo., FGAC, Consulting Economic Geologist

STATEMENT OF QUALIFICATIONS

I, David B. Pipe hereby do certify:

I reside at #6-2084 Robson Place, Kamloops, B.C.

I have taken and graduated from the Basic Prospecting course sponsored by the Ministry of Energy, Mines and Petroleum Resources in 1993 and 1994 in Kamloops, B.C.

I have continued to take specific courses dealing with mineral deposits and exploration and continue to have an active interest in prospecting and mineral exploration.

I have a 50% ownership in the mineral property described as the Ladybug Group.

David B. Pipe

Ph/Fax 250-554-6887, AutoTel/Fax 250-371-9961, Cellular 250-319-0717

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APPENDIX I - ANALYTICAL RESULTS

Ph/Fax 250-554-6887, AutoTel/Fax 250-371-9961, Cellular 250-319-0717

21-May-98 ECO-TECH LABORATORIES LTD 10041 East Trans Canada Highwa KAMLOOPS, B.C. V2C 6T4). Y		ICP CERTIFICATE C	FANALYSIS AK 98-146		PULSE FIRE EXPLORATION #6 - 2084 ROBSON PLACE KAMLOOPS, BC V2E 2M6	
Phone: 604-573-5700 Fax : 604-573-4557						ATTENTION: DAVE PIPE No. of samples received: 4 Sample type: Rock PROJECT #: 027 LDB SHIPMENT #: 98-01 Samples submitted by: D. Pipe	
Values in ppm unless otherwise	reported As Ba	BiCa% Col	Co Cr Cu Fe %		Ni P Pb Sb Si		Zn 8065
Et #. Tag # Ag Al % 1 LB-98-01 >30 0.48 2 LB-98-02 0.2 0.27 3 LB-98-03 <0.2 2.43 4 LB-98-04 0.8 3.04	AS Da <5 80 <5 25 <5 155 <5 50		34 45 654 5.9 82 25 42 4.77 16 165 73 5.4 80 74 751 >10	<10	6 160 >10000 <5 <2 2 280 240 <5 <2 28 560 76 <5 <2 45 340 30 <5 <2	0 13 0.03 <10 6 <10 <1 >1 0 13 0.12 <10 126 <10 2	
QC DATA:							
<i>Resplit:</i> 1 LB-98-01 >30 0.52	<5 85	200 2.66 73	37 48 692 6.2	5 <10 0.14 >10000 2 <0.01	5 190 >10000 <5 <4	20 27 0.05 <10 12 <10 <1	8595
Standard:	55 150	<5 1.66 <1	19 65 80 4.0	2 <10 0.91 666 <1 0.02	25 650 40 <5 <	20 55 0.11 <10 74 <10 4	81

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ECO-TECHTABORATORIES LTD.

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

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CERTIFICATE OF ASSAY AK 98-146

PULSE FIRE EXPLORATION #6 - 2084 ROBSON PLACE KAMLOOPS, BC V2E 2M6

21-May-98

ATTENTION: DAVE PIPE

No. of samples received: 4 Sample type: Rock PROJECT #: 027 LDB SHIPMENT #: 98-01 Samples submitted by: D. Pipe

ET #.	Tag #		Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Pb (%)	Zn (%)
1	LB-98-01		< 0.03	<0.001	114.0	3.33	2.69	0.87
2	LB-98-02	ć	<0.03	<0.001	-	-	0.01	4.44
3	LB-98-03		<0.03	<0.001	-	-	-	-
4	LB-98-04	•	<0.03	<0.001	-	-	-	-
QC/DA Respli R/S 1			<0.03	<0.001	100.0	2.92	2.46	0.87
Repea								
1	LB-98-01		<0.03	<0.001	116.0	3.38	2.71	0.86
Stand	ard:							
STD-N	1		1.42	0.041	-	•	-	-
Mp-IA			•	-	69.7	2.03	4.33	-
CPb-1			-	-	-	-	-	4.42

. XLS/98 fax@374-1088 cc: leo lindinger @ 554-6887

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Frank J. Pezzotti, A.Sc.T. B.C. Certified Assayer 24-Jun-98

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

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

124 44

Values in ppm unless otherwise reported

Au/mmh)

Am A1 0/

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D: Co %

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ICP CERTIFICATE OF ANALYSIS AK 98-216

C. En W

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RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

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ATTENTION: LEO LINDINGER

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No. of samples received: 20 Sample type: Rock PROJECT #: 027-LDB SHIPMENT #: 98-02 Samples submitted by: L. Lindinger

	. iag #	Au(ppb)	Ag	AI %	AS	ва	BI	Ca %	Cd		<u></u>	Cu	fe %	La	Mg %	Mn	MO	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	LL-R98-009	5	<0.2	0.28	<5	30	10	0.36	<1	16	144	32	3.31	10	0.18	146	2	0.05	32	470	8	<5	<20	11	0.07	<10	15	10	3	26
2	LL-R98-010	20	<0.2	0.06	<5	<5	<5	0.04	<1	1	135	4	0.37	<10	0.03	44	2	0.01	1	60	<2	<5	<20	<1	<0.01	<10	2	<10	<1	<1
3	LL-R98-011	45	0.4	0.94	<5	85	15	5.28	1	48	90	150	>10	40	1.78	1321	8	0.02	76	2030	<2	<5	<20	272	<0.01	<10	171	<10	19	91
4	LL-R98-012	10	0.4	0.05	<5	30	5	0.12	<1	8	142	6	2.21	<10	0.03	401	3	0.01	12	20	<2	<5	<20	<1	<0.01	<10	8	<10	<1	24
5	LL-R98-015	15	<0.2	0.63	<5	10	5	1.39	<1	8	39	7	1.20	<10	0.13	302	<1	0.02	8	540	6	<5	<20	102	0.08	<10	16	<10	4	8
6	LL-R98-016	35	0.4	0.45	<5	45	<5	0.18	6	6	154	70	1.63	<10	0.18	143	2	0.06	<1	180	24	<5	<20	10	0.02	<10	12	<10	<1	913
7	LL-R98-017	5	<0.2	1.95	<5	120	15	0.28	<1	22	142	81	4.79	10	1.32	525	2	0.06	17	250	8	<5	<20	31	0.24	<10	52	10	5	32
8	LL-R98-018	5	<0.2	0.62	<5	20	<5	0.48	<1	57	90	167	2.97	<10	0.37	168	2	0.02	6	470	4	<5	<20	15	0.07	<10	13	<10	<1	6
9	LL-R98-020	5	<0.2	1.53	<5	55	20	0.71	<1	58	65	175	7.51	10	1.25	278	3	0.07	27	1090	8	<5	<20	6	0.13	10	86	10	<1	33
10	LL-R98-021	40	<0.2	0.74	<5	60	<5	0.84	<1	200	41	336	8.81	20	0.45	95	2	0.08	63	1050	20	<5	<20	20	0.20	10	42	<10	<1	11
11	LL-R98-022	5	<0.2	1.32	<5	50	15	0.18	<1	29	123	9	4.44	20	1.18	759	<1	0.05	30	210	12	5	<20	6	0,18	<10	50	<10	5	56
12	LL-R98-023	10	3.4	0.54	<5	290	<5	0.88	51	148	26	764	9,80	20	0.37	9881	<1	0.01	13	470	172	<5	<20	61	0.03	<10	14	<10	<1 >	10000
13	LL-R98-024	5	20.2	0.54	<5	75	55	1.36	44	16	47	25	1.36	<10	0.16	4721	<1	0.01	6	490	1248	<5	<20	58	0.09	<10	12	<10	2	7362
14	LL-R98-025	5	<0.2	3.39	<5	90	<5	1.11	1	69	112	641	>10	30	1.59	569	6	0.30	99	190	14	<5	<20	163	0.18	<10	106	<10	<1	194
15	LL-R98-026	5	0.4	1.76	<5	40	<5	0.90	<1	22	90	824	6.35	20	0.52	260	5	0.08	8	500	14	<5	<20	61	0.06	<10	18	10	<1	51
16	LL-R98-027	15	5.4	0.20	<5	35	<5	0.22	<1	40	112	2788	6.75	10	0.06	131	9	<0.01	15	<10	2	<5	<20	4	0.02	10	4	10	<1	9 2
17	LL-R98-028	5	7.4	0.42	<5	135	<5	7.76	4	34	60	1626	>10	30	0.38	3829	10	0.01	7	30	<2	<5	<20	34	0.02	<10	5	<10	<1	374

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24-Jun-98

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

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

Values in ppm unless otherwise reported

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RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 3 Sample type: Moss/Silt PROJECT #: 027LDB SHIPMENT #: 98-02 Samples submitted by: L. Lindinger

- 4	T #	Autombi	٨٣	AI %	۸e	Ba	BìC	a %	Cd	Co	Сг	Cu	Fe %	La Mg %	Mn	Mo Na %	Ni	P	Pb	Sb	Sn	Sr Ti%	U	V	<u>w</u>	<u> </u>	Zn
Et #.	lag #																								<10	9	88
	LL-MM-98-013	<5	0.4	1.19	<5	140	5	1.02	<1	9	11	- 21 .	2.00	20 0.20	141	3 0.03			~~	-	-20	20 0.06	~10	38	<10	10	76
•	LL-MM-30-010			4.00	-17	426	10 /	0.44	<1	10	14	28	2.61	30 0.37	313	3 0.03	13	380	32	<0	<20	30 0.00	~10	00			
2	LL-MM-98-014	<5	<0.2	1.86	<0	120	10	0.44						50 0.92	1401	15 0.01	162	770	12	<5	<20	18 < 0.01	<10	101	<10	5	134
3	LL-MM-98-019	<5	<0.2	1.89	<5	260	10	0.31	1	51	54	173	>10	50 0.55	1401	15 0.01	105	110		•							

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<u>QC_DATA:</u> <i>Repeat:</i> 1 LL-MM-98-013	<5	0.6	1.13	<5	130	5	0.92	<1	8	11	24	2.09	30	0.35	691	3	0.03	10	870	22	<5	<20	66	0.04	<10	28	<10	7	85
<i>Standard:</i> GEO'98	125	1.4	1.80	65	160	15	1.86	<1	19	64	77	3.93	10	0.98	658	<1	0.03	24	650	22	5	<20	53	0.10	<10	73	20	6	71

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RENAISSANCE GEO	SCIENC	e ser	VICES					6	CP CEI	RTIFIC	ATE C)F ANAL	YSIS A	4K 98-2	16									ECO-TI	ECH LA	BORA	TORIES	; LTD.	
<u>Et #. Tag # A</u>	Au(ppb)	Ag	<u>Al %</u>	As	Ba	Bi	Ca %	Cd	<u>Co</u>	Cr	Cu	Fe %	La	<u>Mg %</u>	Mn	Mo	Na %	Ni	P	Pb	_Sb_	Sn	Sr	Tí %	<u> </u>	_ <u>v</u>	w	Y	Zn
<u>QC_DATA:</u> Resplit: R/S 1 LL-R98-009	5	<0.2	0.28	<5	35	10	0.40	<1	16	160	34	3.27	10	0.17	154	2	0.06	31	450	8	<5	<20	14	0.09	<10	14	10	5	29
<i>Repeat:</i> 1 LL-R98-009	5	<0.2	0.26	<5	30	10	0.34	<1	16	142	32	3.25	10	0.17	139	2	0.05	32	460	8	<5	<20	13	0.08	<10	14	10	3	29
Standard: GEO'98	125	1.6	1.80	65	165	15	1.86	<1	19	66	81	3.96	10	0.98	659	<1	0.03	23	650	20	5	<20	55	0.11	<10	73	<10	6	68

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APPENDIX II - SAMPLE DESCRIPTIONS

Ph/Fax 250-554-6887, AutoTel/Fax 250-371-9961, Cellular 250-319-0717

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SAMPLE #	SAMPLE LOCATION AND DESCRIPTION	Copper ppm	Zinc ppm	Lead ppm	Silver ppm
LB-98-01	Ladybug 1 Claim. Road showing - (Blackjack Local Grid (BLG)) 199+95N 49+95E. Massive dark grey green calc-silicate rock with irregularly disseminated pyrite, galena and sphalerite. 5% Py, 3% galena, 2% sphalerite	654	8065	26900	114
LB-98-02	Showing#2 - (BLG) 200+13 N 50+35E. Medium to dark olive green massive calc-silicate rock adjacent to white banded chert bed. Locally 10% sphalerite in 5 cm thick lenses. unit is over 1 meter thick with 4%? sphalerite. Mostly well oxidized.	42	44400	240	0.2
LB-98-03	Float sample of strongly sericitized rock. About 100 meters SW of Road showing.	73	182	76	<0.2
LB-98-04	Float sample (0.3x0.25x0.1 m) in road 55 meters northeast of road showing. (BLG) 200+05N 50+50E. Quartz- sericite-pyrite schist-breccia.	751	89	30	0.8
LL-R98-09	Chip off 1 meter boulder at camp site. Schistose meta-granite? With 5% disseminated and fracture controlled pyrite+/-chalcopyrite+/- pyrrhotite?	32	26	8	< 0.2
LL-R98-010	Quartz vein on Ladybug 3 claim, white bull quartz with coarse irregularly disseminated pyrite. QV in tensional buckle in competent metavolcanic unit within larger ductile schistose metasediments. Sample ran 20 ppb gold.	4	<1	<2	<0.2

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SAMPLE #	SAMPLE LOCATION AND DESCRIPTION	Copper ppm	Zinc ppm	Lead ppm	Silver ppm
LL-R98-011	Ladybug 3 claim. Massive pyrrhotite veining in ankeritically altered mafic volcanic? wall rock. Veining in 090 striking shears. Gold reported 45 ppb.	150	91	<2	0.4
LL-R98-012	Ladybug 3 Claim. White silicified and weakly pyritized and quartz veined rock within a larger zone of ankeritically altered rock. Gold reported 10 ppb.	6	24	<2	0.4
LL-MM-98-013	Ladybug 3 Claim. Moss mat sample of reported 2.4 g/t Ag sample. This sample is weakly anomalous. Host material appears to be till outwash.	27	88	22	0.4
LL-SS-98-014	Ladybug 3 Claim. Silt sample of same drainage as moss mat sample. Nearly identical base metal geochem.	28	76	32	<0.2
LL-R98-015	Ladybug 3 Claim. Small 290 degree striking vertically dipping quartz- pyrite veins and silicified zones uphill from sample site 14. Sample reported 15 ppb gold.	7	8	6	<0.2
LL-R98-016	Ladybug 3 Claim. Float sample of strongly pyritized quartz vein with sericiticaly altered wall rock. Located in headwaters of 5 Mile Creek. Sample reported 35 ppb gold.	70	913	24	0.4
LL-R98-017	Mount Fowler road. Ladybug 3 Claim. Grey fine grained fissile sericite with interlaminated pyrite schist.	81	32	8	<0.2

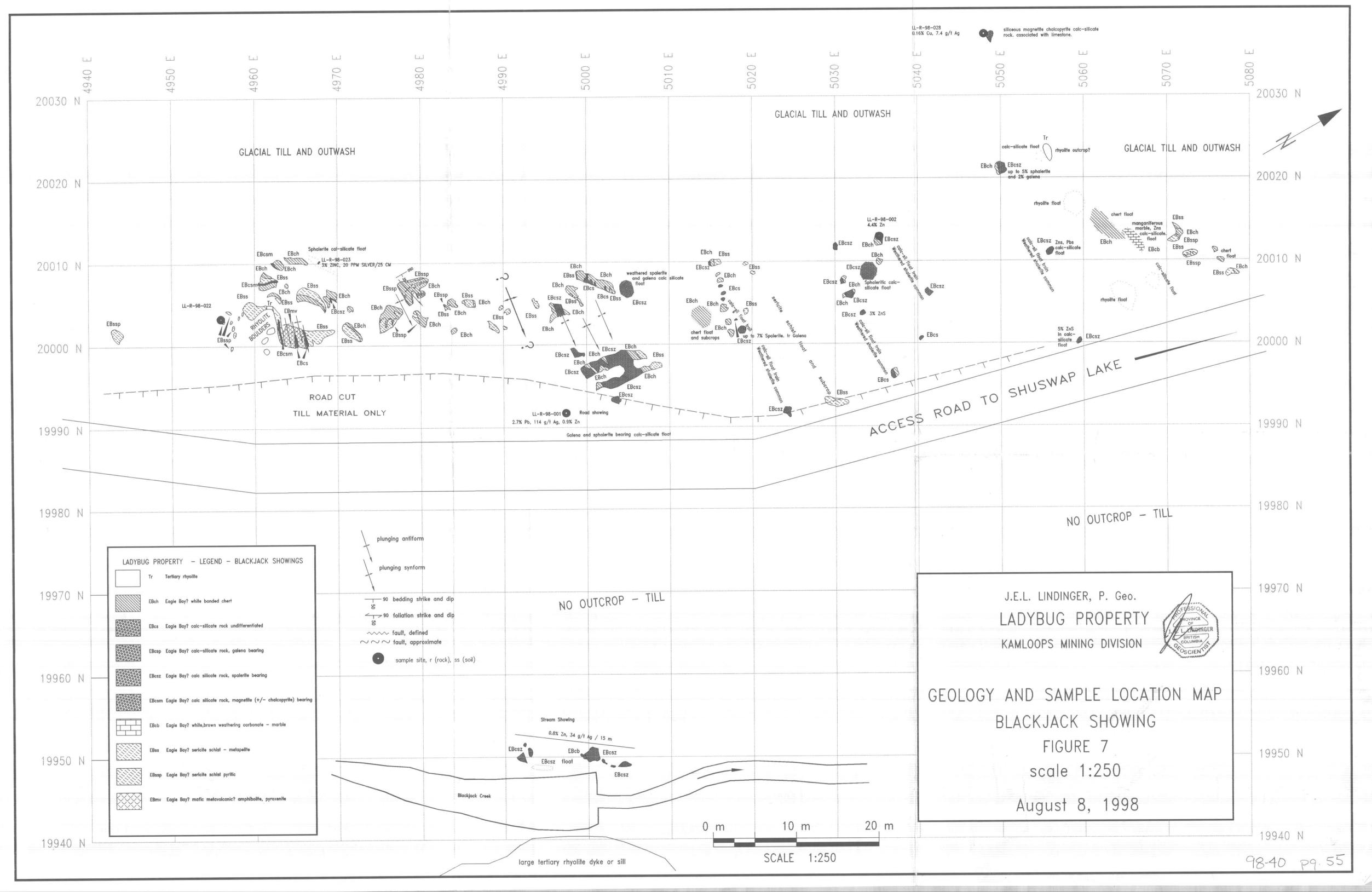
RENAISSANCE GEOSCIENCE SERVICES, 879 McQueen Drive, Kamloops, B.C. V2B-7X8 J.E.L. (Leo) Lindinger, P. Geo., FGAC, Consulting Economic Geologist

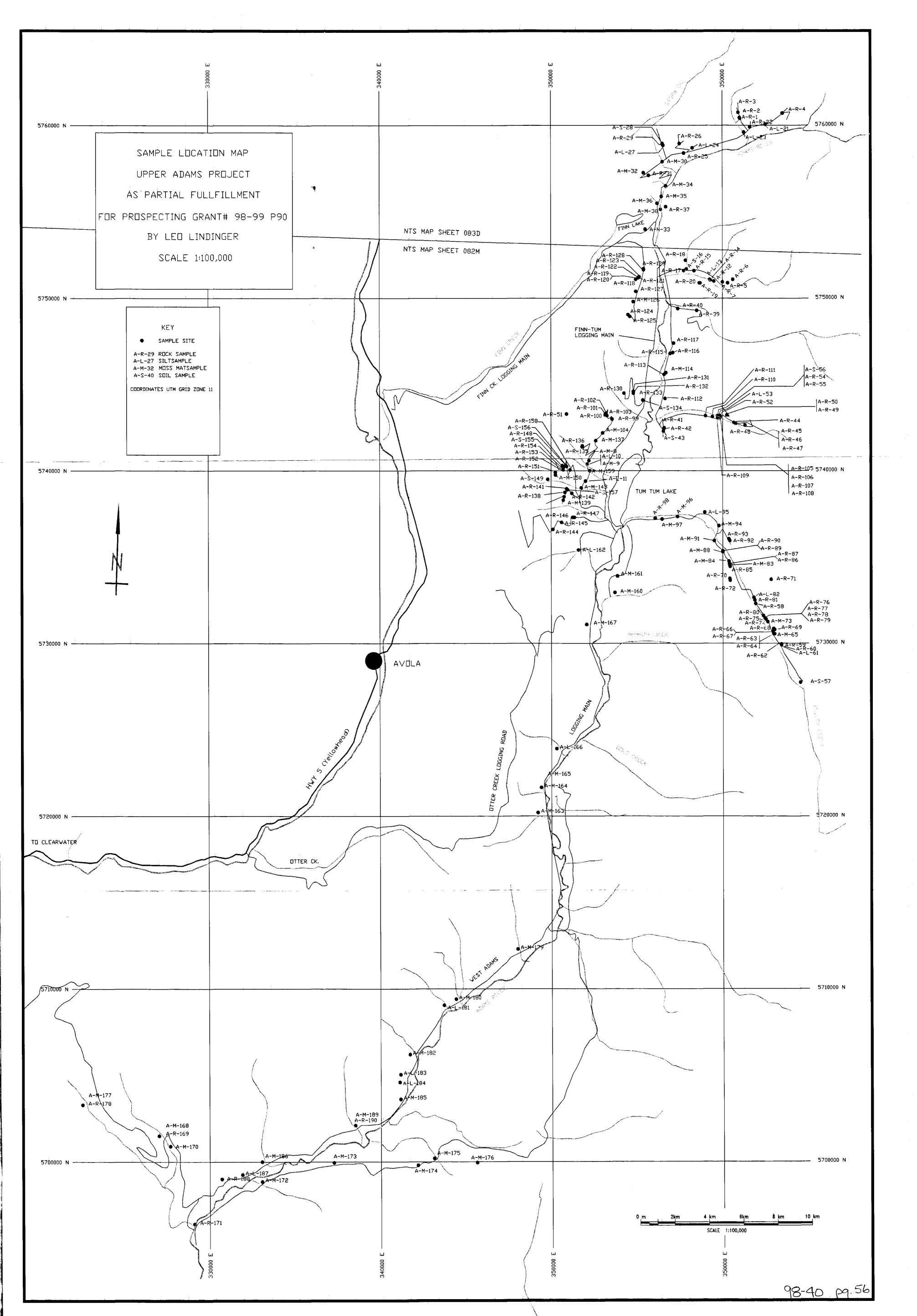
SAMPLE #	SAMPLE LOCATION AND DESCRIPTION	Copper ppm	Zinc ppm	Lead ppm	Silver ppm
LL-R98-018	Mount Fowler road. Ladybug 3 Claim. Disseminated pyrite and pyrrhotite? in siliceous schist. Strike of Zone 055/90.	167	6	4	<0.2
LL-MM-98-019	Mount Fowler road. Ladybug 3 Claim. Bright red-orange soil of strongly ankeritized metasediment.	173	134	12	<0.2
LL-R98-020	Ladybug 3 Claim. Select grab of strongly pyritized quartz sericite schist bed. Trace Cpy?	175	33	8	<0.2
LL-R98-021	Ladybug 3 Claim. Chip of strongly pyritic and pyrrhotitic quartz-sericite schist. Strike/dip 030/20. Sample 8 cm wide.	336	11	20	<0.2
LL-R98-022	Ladybug 1 Claim. (BLG) 200+03N 49+57E. Pale grey medium grained pyritic quartz sericite schist. Unit is spatially associated with calc-silicate and cherty lithologies.	9	56	12	<0.2
LL-R98-023	Ladybug 1 Claim. (BLG) 200+08N 49+68E. Dark brown highly oxidized calc silicate rock. Representative chip sample over 25 cm true width. Strike/dip 050/025. 1% manganese.	764	30400	172	3.4
LL-R98-024	Ladybug 1 Claim. Banded green calc silicate rock with disseminated sphalerite, and galena. Rock is identical to Blackjack showing some 600 meters to the east. Strike/dip 045/40. Higher grade mineralization is weathered away. 0.5% manganese.	25	7362	1248	20.2

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RENAISSANCE GEOSCIENCE SERVICES, 879 McQueen Drive, Kamloops, B.C. V2B-7X8 J.E.L. (Leo) Lindinger, P. Geo., FGAC, Consulting Economic Geologist

SAMPLE #	SAMPLE LOCATION AND DESCRIPTION	Copper ppm	Zinc ppm	Lead ppm	Silver ppm
LL-R98-025	Ladybug 1 Claim. Diopside? epidote pyrite pyrrhotite +/- chalcopyrite skarn?-breccia. Hosted by fine grained biotite rich schist. Sulphides occupy "late" fractures and voids.	641	194	14	<0.2
LL-R98-026	Ladybug 1 Claim. Big Mag showing. Azurite staining in fine to medium grained banded magnetite rich calc- silicate schist.	824	51	14	0.4
LL-R98-027	Ladybug 1 Claim. Big Mag showing. 7E. Siliceous pyritic schist. Moderately weathered. Minor azurite- malachite noted. weathers to a white porous siliceous gneissic rock.	2788	92	2	5.4
LL-R98-028	(BLG) 200+38N, 50+48E - Speckled pale avocado and steel grey medium to coarse grained siliceous calc-silicate - magnetite - chalcopyrite rock. Rock contains 15% magnetite, about 0.3% chalcopyrite, and trace honey sphalerite. Rock is adjacent to a white massive crystalline dark purple- brown weathering carbonate.	1626	374	<2	7.4





10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4 Phone (250) 573-5700 Fax (250) 573-4557 email: ecotech@mail.wkpowerlink.com

CERTIFICATE OF ANALYSIS AK 98- 569-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 4 Sample type: Silt PROJECT #: 029 SHIPMENT #: 98-04 Samples submitted by: L. Lindinger

ET	#. Tag #	Bi (ppm)		_
1	A-L-181	1	· · · · ·	
2	A-L-184	 1	·· ;	
` 3	A-L-185	1		
4	A-L-187	1		

QC/DATA

Standard: MPla

160

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CERTIFICATE OF ANALYSIS AK 98- 568-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 14 Sample type: Moss PROJECT #: 029 SHIPMENT #: 98-04 Samples submitted by: L. Lindinger

Bi ET #. (ppm) Tag # 5 A-M-174 1 6 A-M-175 1 7 A-M-176 1 A-M-177 1 8 10 A-M-180 1 A-M-182 11 1 12 A-M-183 1 13 A-M-186 1 14 A-M-189 1 QC/DATA Standard:

MPla

160

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CERTIFICATE OF ANALYSIS AK 98-552R

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER J 1.

No. of samples received: 21 Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-03 Samples submitted by: L. Lindinger

Requested October 5, 1998

ET #	. Tag #	Au (ppb)	Ag (g/t)	Ag (oz/t)	
1	A-R-007	995	-	-	
8	A-R-047	. 5	-	-	
13	A-R-063	5	1.4	0.04	
14	A-R-064	5	-	~	

QC/DATA:

Standard:			
GEO'98	135		
Mp-IA		69.7	2.03

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CERTIFICATE OF ASSAY AK 98-552

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 21 Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-03 Samples submitted by: L. Lindinger

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Pb (%)	Zn (%)	
13	A-R-063		-	-	6.94	
14	A-R-064	30.4	0.89	3.76	2.46	

QC/	DA	T/	A:
THE OWNER WHEN PARTY IN COMPANY	-		

Standard:					
Mp-IA	69.7	2.03	4.33		
CPb-1	-	-	-	4.42	

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25-Sep-98

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CERTIFICATE OF ANALYSIS AK 98-541-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 17 Sample type: Moss Mat PROJECT #: 029 SHIPMENT #: 98-02 Samples submitted by: L. Lindinger

ET #	. Tag #	Bi (ppm)
2	A-M-096	1
- 14	A-M-163	1
16	A-M-165	1
17	A-M-167	1

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QC/DATA

Standard: MPla

160

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9-Oct-98

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CERTIFICATE OF ANALYSIS AK 98- 540-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 4 Sample type: Silt PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

		Bi	
ET #	. Tag #	(ppm)	
1	A-L-095	1	,
່ 3	A-L-162	28	
4	A-L-165	3	

QC/DATA

Standard: MPla

160

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9-Oct-98

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CERTIFICATE OF ASSAY AK 98-540A-2

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

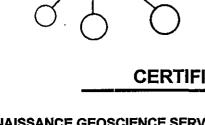
No. of samples received: 12 Sample type: Rock PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

Requested October 5, 1998

ET #. Tag #	Au (g/t)	Au (oz/t)			
10 A-R-158	25.67	0.749	• •	<u>1</u> 1 /	
00/DATA					
QC/DATA Standard: STD-M	1.40	0.041			
		0.011		•	
					·
- -					

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CERTIFICATE OF ASSAY AK 98-540

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC-V2B 7X8

ATTENTION: LEO LINDINGER

LABORATORIES

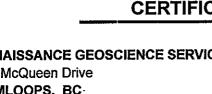
No. of samples received: 12 Sample type: Rock PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

		Au	Au		· .
ET #. Tag # 🖉		(g/t)	(oz/t)		
10 A-R-158	·	26.26	0.766	<u></u>	

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29-Sep-98

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CERTIFICATE OF ANALYSIS AK 98-540

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 12 Sample type: Soil PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

		Au	
ET #.	Tag #	(ppb)	
10	A-R-158	>1000	

QC DATA:

Standard: GEO'98

145

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CERTIFICATE OF ANALYSIS AK 98-540R

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 12 Sample type: Soil PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

Requested October 5, 1998

ET #. Tag #	Au (ppb)	
6 A-S-149	. 5	·
	· .	,
		· .
, ·		
QC DATA:		
Standard:		
GEO'98	135	
	ì	
		1

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6-Oct-98

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CERTIFICATE OF ANALYSIS AK 98-539

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

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No. of samples received: 15 Sample type: Rock PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

<u>ET #.</u>	Tag #	Au (ppb)	
3	A-R-103	5	
4	A-R-111	5	
່ 5	A-R-112	10	
10	A-R-128	10	
11	A-R-133	5	
12	A-R-136	5	
- 14	A-R-151	10	

QC DATA:

Repeat: 3 A-R-103

Standard:

GEO'98

145

5

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CERTIFICATE OF ANALYSIS AK 98- 521-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 18 Sample type: Moss PROJECT #: 029 SHIPMENT #: 98-01 Samples submitted by: L. Lindinger

		Bi	
ET #	. Tag #	(ppm)	
5	A-M-034	· 1	
6	A-M-035	1	
8	A-M-038	1	
9	A-M-039	1	

QC/DATA

Standard: MPla

160

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8-Oct-98

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CERTIFICATE OF ANALYSIS AK 98- 520-BI

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 18 Sample type: Soil PROJECT #: 029 SHIPMENT #: 98-01 Samples submitted by: L. Lindinger

		Bi	
. ET #	. Tag #	(ppm)	
4	A-L-013	1	
5	A-L-016	1	
7	A-L-023	1	
14	A-S-040	. 1	

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CERTIFICATE OF ASSAY AK 98-519

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B.7X8

ATTENTION: LEO LINDINGER

No. of samples received: 13 Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-01 Samples submitted by: L. Lindinger

		Zn
ET #.	Tag #	(%)
11	A-R-076	3,40

QC	DA.	TA:

Repeat: 11 A-R-076

3.42

4.42

Standard:

CPb-1

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14-Sep-98

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM E C E V E D PROSPECTING REPORT FORM (continued)^P

B. TECHNICAL REPORT

r r

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name LEO LINDINGER Reference Number 98/9	9 <i>P9</i> 0
LOCATION/COMMODITIES	
Project Area (as listed in Part A) NORTH BRAMS RIVER MINFILE No. if applicable	
Description of Location and Access Access VIA HWY 5 FROM AVOLA OR VAVENAS; LOGGING ROMAS IN HPAMS RIVEN ORMINAGE	
Main Commodities Searched For 2N Pb., Cv., Ng. Av	
Known Mineral Occurrences in Project Area <u>RUBDOCK CREEK IN ON EASTERN</u> OF PRO 3527 BRIA	POGE_
WORK PERFORMED	
1. Conventional Prospecting (area) 700 Km ² BRox BRosocrey	
2. Geological Mapping (hectares/scale)	
3. Geochemical (type and no. of samples) Rock 120 Soil 20 Silt 15 Moss a	107.35
4. Geophysical (type and line km)	
5. Physical Work (type and amount)	
6. Drilling (no. holes, size, depth in m, total m)	
7. Other (specify)	
Location (show on map) Lat 51°53 N Long 119° 11'40 W Elevation 15	BISMUTH DIE THE TO
TANSNOF	
D (CATh	

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

OCT 2 1 1998

PROSPECTOPS PROCHAM MEMPR

VANADIUM UP TO 900 ppm WAS TAHON B-R-116 DN THE EAST SIDE OF THE ADAMS ORBINIAGE.

> SEE DECOMPANSING LIST WITH SAMPLE #5, WITH LOCATAN, MAP SHOOT LOCATION AND AMBLYTICAL MONLIOKTS.

		1	IM.	ASTER SAMP	LE AND A	NALYTICAL	LIST FOR	PROJECT 029		T	1	1			
MAP	s	AM	P#	TYPE	utme	utmn		specimen description	ANAL VTIC	AL HIGHLIG	1 UTO	<u>}</u>			ļ
			1		1	1			Au-opb			-	h	<u> </u>	
			Ĺ		1	1	y-n]	(o/t)	(o/t)	Cuppm	Pb ppm	Zn ppm	other ppm	
083D005	A	- F	₹ -1	rock	361020	5770400		Float. Rusty weathering medium grained melanocratic		(0/0	(%)	(%)	(%)	(%)	(%)
			1				1	pyritic biotite gneiss, with some calo-silicate subunits.	1	1		1			
				{	1			Pytho biolic groups, with some calo-sincate subunits.					1	1	ļ
083D005	A	- 16	2-2	Irock	361000	5770450	·	Float, Orange weathering quartz vein or pegmatite, 3-				ļ		L	L
		į	1-	1	1 00.000	0110400	}	Filder, Grange weathering quarz vein or pegmatrie, 3-]	(ĺ	1	1		{
	ļ		1			1	1	5% coarsely disseminated sulphides		1		ſ	ſ	í	{
083D005	A	. † s	1-3	rock	359980	5770550								1	
	r	' I '	1-2	pock	339900	5//0550	У	Float. Rusty weathering medium brained melanocratic				{	1		1
083D006		+	2-4					pyritic biotite gneiss.	l			1			
	j~	יןי	¢j•4	rock	363500	5770700	1 /	green coarse grained amphibolite skarn with blades of				1		i	<u> </u>
00014007	1.	+-						tremolite up to 4 cm long	1	1	}	}	}	}	
083M095	A-	• *	q-s	rock	360300	5760900		Rusty weathering dark grey medium fine grained biotite							<u></u>
			ł	1				amphibolite gnelss, 2% finely disseminated sulphides.	1]
								and sulphides in hairline fractures	1	1				1	ł
	_					}									1
083M095	A-	F	₹ -6	rock	360600	5761100	Y	Rusty weathering dark grey medium fine grained biotite		f	400				
		1	ļ	ļ				amphibolite gneiss, 5% finely disseminated sulphides.	1		169			P 2800	V 101
						í í		and sulphides in hairline fractures, trace cpy?	ł						
		1						and auphides in natione nacches, trade cpyr							
083M095	A	R	-7	rock	360000	5760950	Y	brauen fine seminard interesting the set							
			1.		1	5700350	y	brown fine grained intrusive breccia. possibly quite	(995) 1.4	199			Bi 365)	
		!	1	1				potassic, with sulphides in curvilinear fractures, and in		r I					
083M085	10.	IN	tre	moss mat	352200	5750600		quartz veins							
083M085				moss mat	the state of the state of the		Y								
83M085		110	1-9	moss mai	352100		Y					14			
0314085	~	÷	1-10	silt		5750400	у		[
						5749400	у					12			· · · · ·
083M095						5761000		quartz apmphibolite gneiss and migmatite							<u> </u>
083M095	A-	12	-13	silt	359250	and all shall be shall be shall be shall be	_у					22	74		
083M095	A	IR	1-14	rock	359300	5761050		Pyrite gneiss							
83M095	A-	R	-15	rock	358350	5761600	y	Amphibolite skarn with remnant carbonate 2% very			117			P 1785	0
							-	finely disseminated sulphides with trace chalcopyrite.				ļ	ļ	P1/05	Sr. 385
	1					1		Also anomalous in chrome			1		ļ	ł	
83M095					357900	5761700	y					16			
B3M095	A-	R	-17	rock	357750	5761600		Heterogenous medium grained amphibolite calo-silicate				16			
			1				,	bearing gneiss with finer grained siliceous pyritic		1	(- f	1	Sr. 1162	
								subunits, up to 3% sulphides.		1					
83M095	A-	R	-18	rock	357850	5762200		massive cherty siliceous rock with 3% evenly							-
	1					0.02200		hassive cherty sinceous rock with 3% evening		ł	}	1			
	1	1	ł	1	1 1	ł	1	disseminated fine grained sulphides, possible trace	ļ	}	ł		-		
83M095	A-	8	-19	rack	358700	5760900		halcopyrite.					ĺ	. Í	
001110000		``	[ICCA	350,00	5/60500		Medium to coarse grained siliceous bictite gneiss. Up		1					
							1	to 4% irregularly disseminated sulphides.	1		1				
POLIAAC	+-	F	-				~			1		l			
83M095	A		-20	rock	358650	5780900]	Pink and green mottled gneissic calc silicate-skarn with							
							i	uartz bands and remnant carbonate (marble) lenses.	1	1	({	1	1	
	Ļ	<u>.</u>						to sulphides noted							
830005	A-	L	-21	silt	362500	5770050	y								
83D005	A	R	-22	rock	361600	5769900		nedium grained heterogenous biotite garnet skarn.			185		ł		
								Trace malachite staining		1	103		1	V 130	
83D005	A	L	-23	silt	361250	5769600	v					ł			
8310005	Δ.	L	.74	silt		5768700	vi				45	18	68		

UPPER ADAMS PROJECT

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PAGE.02

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Page 1

UPPER ADAMS PROJECT

MAP	10.	MF	1.0.0					PROJECT 029	ļ., ,						
	134	WIP I	7 4 4- T	TYPE	utme	utran	analyzed	specimen description	ANALYTIC	AL HIGHLIG	HTS			<u> </u>	
							y-n		Au-ppb (oft)	Ag ppm	Cu ppm	Pb ppm	Zn ppm	other ppm	
083D005	A-	R	-25	rock	357750	5768400	У	Rusty weathering medium grained pyritic feldspar, quartz biotite gneiss, with pyritic leucocratic felsic bands	(6/1)	(o/t)	(%) 482	(%))	(%)	(%) P 1050	(%)
083D005	A	R	-26	rock	357500	5788950		Rusty weathering medium grained pyritic feldspar,	·						I
					1			quartz biotite gneiss. minor leucocratic felsic bands						i i	
	l		1	}	1	1		Adding biolite grielss, fighter relationation relation telesic bands							
083D005	A-	L	-27	sitt	356550	5768850	y								L
083D005	A-	S	-28	soil	356500		<u>у</u>		<u> </u>						
083D005	A .	R	-29	rock	356520			Rusty weathering medium grained pyritic feldspar, quartz biotite gneiss. with pyritic leucocratic felsic bands		0.4				P 7660	Sr. 734
			-30	moss mat	356500	5767900	V								
083D005				rock	355700			Pyritic biotite gneiss	·					Y 13	
083D005	A-	M	-32	moss mat	355400	5767250	y								
083D005	A	M	-33	moss mat	355500	5764000	y y					20 16	84		
083D005	A-	M	-34	moss mat	356700	5766500	У					22	67		
083D005	A-	М	-35	moss mat	356450	5765900	Y		+			22	89		
083D005	A-	М	-36	moss mat	356200	5765500	y y	······			- 43	20[69		
083D005	A-	R	-37	rock	356700	5765300		dark green medium grained amphibolite gneiss					——i		
083D005	A-	М	-38	moss mat	356400	5765150	У		t			18	103		
083M095	A	Μ	-39	moss mat	358500	5759300	y		†			24	110		
083M095	A	R	-40	rock	357400	5759400		Pyritic biotite gneiss							
083M095	A -	R	-41	rock	356600	5752500		feldspathic chloritized biotite gneiss. trace sulphides.							
083M095				rock	356580	5752450		medium grained biotite amphibolite gneiss. weakly pyritic.							
083M095	A -	\$	-43	soil	356550	5752300									
083M095		-		rock	360650	5752800		medium grained coarsely banded granodioritic gneiss							
083M095	A-	R	-45	rock	360750	5752750		rusty weathering irregular grey siliceous pyritic rock. 5% fine to medium grained disseminated biotite. 4% fine to medium grained disseminated sulphides.						Sr 3196	
083M095				rock	360750	5752750	У	Rusty coarse grained pegmatitic appearing feldspar, biolite sulphide rock. 3% sulphides					·	Cr. 255	
083M095				rock	360750	5752750	У	Rusty weathering siliceous sulphide breccia. up to 6% non magnetic Pyrrhotite? as late stockwork. 20 ppm La, 20 ppm Y		0.6	386			P >10000	Sr. 994
83M095				rock	361300	5752650		similar to A-R-45							0. 545
83M095				rock	360250			similar to A-R-45	·	·	213				Sr. 513
83M095	A-	R	-50	rock	360250	5753250		similar to A-R-45		——+			{		
B3M095	A-	R	-51	rock	350900	5253300	y	similar to A-R-45			429			P 1920	
83M095			_	rock	359850	5753200	У	Fine grained fetsic gneiss with local strongly disseminated pyrite chalcopyrite mineralization and cross cu by later narrow <2mm thick pyrite chalcopyrite velns, also 113 ppm Co.			2326				V 240
83M095				silt	359750	5753200	y				29				
	A-			rock	359700	5753200		Rusty weathering feldspathic biotite amphibolite gneiss. 5% sulphides.			2			<u>Sb 5</u>	

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Oct. 21 1998 09:17AM P3

OCT 21 1998 12:21

UPPER ADAMS PROJECT

MAP	-	1	Tinte				LIST FUR	PROJECT 029		1		1	1	1	
1417 2	5/	MF	*	TYPE	utme	utmn	analyzed	specimen description	ANALYTIC	AL HIGHLIG	HTS	+	<u> </u>	+	
									Au-ppb	Ag ppm	Cuppm	Pb ppm	Zn ppm	other ppm	other n
083M095	A.	R	-55	rock	359700	5753200	<u>у-п</u> У	Rusty weathering medium grained biotite rich gneiss. 35% biotite, remainder mostly plagioclase	(o/t)	(oħ)	(%)	(%)	(%)	(%)	(%)
083M095	A	s	-56	soil	359700	5753200	v			<u> </u>					
083M076	A-	S	-57	soil	364500							L			
083MD85	A	R	-58	rock	351900			heterogeneous siliceous-cherty gneiss with amphibolite	ļ			· · · ·			
								bands, cross cut by quartz-sulphide veins, Also 15 ppm As			133	12		P 1290	Sr. 781
083M076				rock	363400			Rusty weathering feldspathic biotite sericite gneiss, 1- 2% sulphides.			·····				
083M076	A-	R	-60	rock	363400			melanocratic fine grained biotite rich gneiss							
083M076	A-	L	-61	sitt		5739900	y					18		<u> </u>	
083MD76	<u>A</u> -	8	-62	rock		5739950		Same as A-R-59					61		
083M076	A-	R	-63	rock	362950			Brown fine grained sphalerite bearing gneiss			525	4370	6.94	C-1410	
083M086				rock	362950		У	Brown fine grained sphalerite bearing gneiss with stockwork and brecciation		30.4	177	(3.76)	(2.46)	Cd 113 Bi 220	
083M086	A-		-65	moss mat	363000	5740550	y			0.4			74		
			-66	rock	362900	5740700	y	Brown fine grained sphalerite bearing gneiss with stockwork and brecciation		0.4		350	1029		
	A-			moss mat	362900	5740700	. у						69		
	A-			rock	362950	5740850	У	Rusty weathering melanocratic amphibolite skarn? with finely disseminated pyrite					09		Sr. 483
	A.	R	-69	soil	363000	5740800	у (
083M085				rock	360400	5743750		Rusty weathering fine grained siliceous biotic pyritic gneiss. 75% silica a dark cherty material. possible 5% fine grained garnet.			103			Sr. 258	
083M085				moss mat	362800	5743700	y								
083M085				rock	360420	5743650	y	Fine grained siliceous gneiss with 3% finely disseminated sulphides.				20	122	P610	Sr 310
083M086	A-	M	-73	moss mat	362600	5741250	У					18			
083M086				rock	362500	5741400	У	Banded medium to dark gray very fine grained biotite gneiss with 3% finely disseminated iron sulphides.				18			<u> </u>
083M086				rock	362500	5741400	У	biotite amphibolite gneiss with irregularly disseminated byrrhotite pyrite and chalcopyrite +/- bornite???			215			Co. 111	Sr 325
)83M086	A-	R	-76	rock	362450	5741450	y 	Fine grained biotite chlorite gneiss with silicerus bands containing fine grained massive to strongly disseminated sphalerite and iron sulphides. Late massive sphalerite veins cross cutting siliceous rocks. meiss barren.		1.0	145	4196	2.43)	Bi 40 0	Cd 65
	A-			rock	362450	5741450		2uantzo-felsphathic biotite gneiss, trace sulphides.							
83M086	A.	Ŕ	78	rock	362450	5741450	t	imonitic weathering Biotite rich gnelss variable composition with biotite rich and feldspar dominated vands. with semi massive sulphide bands up to 8 mm hick							

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	UPPER ADAMS PROJEC	or .
	PROJECT 029	
yzed	specimen description	ANALYTICAL HIGH
		Au-ppb Ag pp

IVIAP-	12	AM	777	TYPE	utme	utmn	analyzed	specimen description	ANAL YTE	AL HIGHLIC		<u> </u>			
		Í	1		ĺ				Au-ppb	Ag ppm	Cuppm	Pb ppm	Zn ppm	other ppm	ather
83M086	A	+	2 -79	tock	362450	5741450	y-n		(o/t)	(oft)	(%)	(%)	(%)	(%)	
		1.		1000	302450	5741450	У	rusty weathering fine grained siliceous pyritic gneiss.			203			P 1510	(?
		Į		1	1			pyrrhotite in secondary fractures, 5% disseminated		Į				F 1510	Į
083M085	A		-80	rock	200260	5746000	f	sulphides.	ł	1	1)			1
	r.	1.	1.00	1.0CA	362350	5741600		Fine grained Biotite gneiss with 0.5 to 1 cm thick cross					·····		í
083M085		┼┎	-81		-			cutting quartz-sulphide veining						·	{
	1	` 「	-01	rock	361850	5742500	y y	Dark grey very fine grained graphitic gneiss. 10 ppm As	5	0.1	48	38	(20		
D83M085	-	+	1 00	+	f			also.	-		40	30	158	P 1270	Sr. 51
10311003	1	+	-82	silt	361800										
083M085	1	1	-83	moss mat	360400	Contraction of the local division of the loc	y								
083M085	A.	1M	-84	moss mat	360350		y								
083M085	A	R	-85	rock	360420	5744450	y	Rusty weathering biotite amphibolite gneiss 2% finely					84		
	1							disseminated Py in biotite			/ 248) 18	61	Sr 226	
083M085	A -	R	-86	rock	360380	5744600		Quartz pyrite granulite with zones of amphibolite							
			1					gneiss. Irregularly disseminated sulphides throughout.							
			ł			1		anoise: aregulary disseminated sulphides throughout.				1			
083M085	A.	TR	-87	rock	360380	5744600		atout fine analogical attraction for the				1	1	ļ	
83M085	A	M	-88	moss mat	360000	5745300		grey fine grained siliceous biotite sericite gneiss	İ						
83M085	A	TR	-89	rock	360000	5745350	y								
		1	1		500500	5745350	У	Fine grained siliceous gneiss with 3% finely						P 1280	Sr. 23
83M085	A	ÌŔ	-90	rock	360000	5745350		disseminated sulphides.		1	}			1200	or. 23
	r	1''	100		300000	5745350	У	Fine grained siliceous gneiss with 3% finely				f			
83M085	Δ.	D.	_01	moss mat	250500			disseminated sulphides.				Į		1	
83M085				rock	359500	5745950	y					18			
0000000		ſ٩	-92	TOCK	360400	5745950		arge quartz vein with 6% irregularly disseminated soft					98		
								grey sulphides and graphite flakes.	[) I	1	1	1	1	
83M085		+													
DONNOD5	A.	M	-93	moss mat		5746050									
83M085	A.	M	-94	moss mat	359450		y						103		
83M085	A	L	-95	silt		5747600]	
83M085	A-	М		moss mat	357300	5747650	Y				32	20			
83M085	A-	M	-97	moss mat	356400	5747500	y								
83M085				rock	356000	5747550		ed weathering fine grained syenite					70		
83M095	A-	R	-99	rock	353550	5753000		Argillically aftered leucodiorite. And quartz pyrite						1	
							ľ	reining. In large shear zone,		ł					
83M095	A-	R	-100	rock	353150	5753250		controg, in large shear zone.						1	
						0.00200		nedium grained leucodiorite. 90% plagioclase, 5%				f			
					(1	le le	uartz, 55 biotite. Crosscut by hairline chloritic	1	1	ļ	1	1		
83M095	A-	R	-101	reck	353150	5753280				ł		1	Í	1	
					000100	3/ 33260	y II	vritic quartz veining in leocodiorite (rock 100). Similar		0.8		32			
83M095	A	R	-102	mek	353200	5750050		o 158 veining	i			-			
00111200	~ í	<u>~</u> (102	ioux	353200	5753350	p p	yritic quartz veining in leocodiorite (rock 100). Similar							
3M095		┢	-103				t	158 veining	1		Í	1	1	1	_
221410-92	~		-103	rock	353250	5753200	y F	vritic quartz veining in leocodiorite (rock 100). Similar		(2.4	68				
	-						to	158 veining			00	24	75]2	5 BI	10 560
	<u> </u>	파	104	moss mat	353000	5752200								$\leq \downarrow$	
	<u>A </u>	먹	105	rock		_	9	vritic biotite gneiss	<u> </u> .		14	14	51		
3M095	A-	R	106	rock	359850	5753100	s	liceous cal-silicate rock 2% evenly finely disseminated							
								write, rock cross cut by aplite dykes with trace fine							
		_1]			rained pyrite							
3M095	A- 1	R	107	rock	359850	5753100	<u>y</u>	aldenathic histin						1	
				- }				eldspathic biotite gneiss with evenly disseminated fine rained flake graphite.							
	_					I	i d	anieg liako grabhite.						1	

MAP

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UPPER ADAMS PROJECT

MAP	SA	MP	#	TYPE	utme	utmin		PROJECT 029 specimen description	ANIAL		(170	<u> </u>			
	1		<u> </u>			Weitut	all all years	opecitien description	Au-ppb	Ag ppm	Cuppm	Pbppm	7		
					<u>i</u>		у-п		(o/t)	(o/t)	(%)	(%)	Zn ppm (%)	other ppm (%)	other pr (%)
083M095	i			rock	359850	5753100		Heterogenous gneiss with clay altered feldspar pyrite vein?.					<u>```</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
083M095	A-	R	-109	rock	359700	5753100		Siliceous rock with 5% finely disseminated graphite and 3% pyrite. grades to calc silicate amphibolite rock too.							1
083M095		R	-110	rocik	359400	5753150		Siliceous granulite with inregularly disseminated coarse grained biotite. Bordered by dark pyrrhotite or pyrite veining.			~				
083M095	A	R	-111	rock	359000	5753200		Highly banded medium to fine grained cherty gneiss with finely disseminated sulphides in chert, remainder of rock is feldspathic amphibolite-biotite gneiss. Also 125 Ba, 62 V, and 65 Y		0.4	444)		P >(1.0)	Sr 445
083M095	A	R	-112	tock	356650	5754200		Melanocratic red siliceous granulite with black net textured blotite-graphite-sulphide veining. 6% sulfides pyrrhotite common.		0.4	404			P 850	Sr 713
083M095	A-	R	-113	rock	356600	5755600	У	Disseminated and stringers of dark very fine grained sulphides in quartz veining			33	10	40	Ba 125	
083M095	A-	М	-114	moss mat	356700	5755700	У								
083M095	A	R	-115	rock	356950	5756800		Interbanded dark grey medium grained biotite graphite gnelss and leucocratic feldspathic gneiss							
083M095	1				357100	3556850		Pyrite graphitic quartz vein (5 cm thick in graphitic gniess)							V 886
083M095					357100	3556850		Pyrite graphitic quartz vein (5 cm thick in graphitic gneiss)					174	P 1250	V 470 Mo 30
083M095	A-	R	-117	rock	357150	3557400		Fine grained feldspathic biotite gneiss trace sulphides.							
083M095	A	R	-118	rock	354950	5761100		fine grained weakly pyritic siliceous biotite gneiss. 3% sulfides							
083M095	A	R	-11 9	rock	355080	5761180		Highly banded medium to fine grained cherty gneiss with finely disseminated sulphides in chert, remainder of rock is feldspathic amphibolite-blotite gneiss.			77		99	P 1460	V 106
083M095	A-	R	-120	rock	355080	5761180	y	Pyritic biotite gneiss							
083M095					355100			Hematite coated feldspathic gneiss with chloritized biotite blades, rock cross cut by numerous hairline hematite veins.							
083M095					355120	5761220		leucocratic cherty weakly pyritic recrystalized rock. Also Cr 113						P 940	Sr 331
083M095					355150		[Bedrock sample. Eagle Bay deformed volcanics. or tertiary volcanics. sub greenschist grade metamorphic and brittle deformation.							
083M095	A-	R	-124	rock		5759050		pyritic biotite gneiss							
083M095	A.	R	-125	rock	354600			pyritic biotite gneiss							
083M095					354800		Y								
083M095	A	R	-127	tock	354950	5760400		leucocratic quartz feldspar sericite gneiss with about 5% disseminated and stringer sulphide. looks like it should run hi in P Sr.							

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UPPER ADAMS PROJECT

MAP	SA			TYPE				PROJECT 029					<u> </u>	ŧ	
	10A	MP		TTPE	utme	utmn	analyzed	specimen description		AL HIGHLIG				L	
				-			y-n		Au-ppb (oft)	Ag ppm (o/t)	Cu ppm (%)	Pb ppm (%)	Zn ppm (%)	other ppm (%)	other pi
083M095	A-	R	-128	rock	355400	5761650		Pyritic biotite gneiss						1	<u> </u>
083M095	A-	R	-129	rock	355400			Pyritic biotite gnelss	<u>}</u>				[1	<u> </u>
083M095	A -	R	-130	rock	354250			leucocratic foliated biotite diorite. Biotite extensively chloritized.							
083M095	A	R	-131	rock	354800	5754600		nusty weathering irregular grey siliceous pyritic gneiss. 5% fine to medium grained disseminated sulphides.							
083M095	A-	R	-132	rock	354800	5754595		Melanocratic feldspathic sericite gneiss with 10% dark powdery sulphides.							
083M095	A	R	-133	rock	354800	5754500	У	Strongly pyritic quartz breccia veining in fine grained siliceous pyritic blotite gneiss		0.8	173			Ni 104	Mo 12
083M095	A	s	-134	soil	355350	5754100	y					30			
083M085	A	R	-135	rock	351800			Leucocratic weakly pyritic quartzo-sericite gneiss.	<u></u>		2	0			
083M085	A -	R	-136	rock	351820	5751450	У	Feldspathic pyritic gneiss. 15% finely disseminated and massive black pyrite.		0.6	359			Mo 11	Cr. 148
083M085	A.	м	-137	moss mat	352600	5751750	v						67		
083M085					350800			sericite gneiss with massive sulphide zone. Rock about 30% sulphides							
083M085	A-	м	-139	moss mat	350700	5748300	y							1	
083M085					350750			sericite gneiss with massive sulphide zone. Rock about 30% carbon and sulphides							
083M085	A -	R	-141	rock	350900	5748950		grey fine grained siliceous chloritic biotite gneiss						j	
083M085	A-	R	-142	rock	351200			Feldspathic calcareous pyritic gneiss with weak to moderate disseminated and stockwork sulphides. 7% Py overall.							
083M085	A	М	-143	moss mat	351750	5749000	У								<u>├</u> ───
			-144		350100	5746600					80			1	<u> </u>
083M085	A-	R	-145	rock	350600	5747000		Feldspathic calcareous pyritic gneiss with weak to moderate disseminated and stockwork sulphides. 7% Py overall.							
083M085	A-	S	-146	soil	351250	5747300	Y							bA 125	<u> </u>
083M085	A -	R	-147	rock	351350	5747300	У	Rusty weathering leucocratic weakly pyritic gneiss, sulphides a grey disseminated lenses in unmineralized quartz sericite gneiss.							
083M085					350850	5750300		Rusty weathering leucocratic weakly pyritic gneiss, sulphides a grey disseminated lenses in unmineralized quartz sericite gneiss.							
083M085	A-	S	-149	soil	349800							26		1	
083M085	A-	М	-150	moss mat	350250									1	[
083M085	A	R	-151	rock	350250]		Fine grained strongly foliated carbonaceous pyritic biotite schist.			761)	57	157 Co.	
083M085	1				350700			Fine grained strongly foliated carbonaceous pyritic biotite schist.							
083M085	A-	R	-153	rock	350700			Strongly pyritic fine grained sericite schist						Į	I
083M085	A-	R	-154	rock	350700	the second secon	<u> </u>	Strongly pyritic fine grained sericite schist							<u> </u>
083M085	A-	S	-155	SOIL	350650			soil down ice from pyritic gneiss exposures	···						L
083M085	1A-	S	-156	SOIL	350900	5750250	<u> y_</u>	soil down ice from pyritic gneiss exposures	L					1	

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								PROJECT 029		<u> </u>				<u> </u>	ļ
MAP	SA	MP#		TYPE	utme	utmn	analyzed	specimen description		AL HIGHLIG				L	<u> </u>
							y-n		Au-ppb (oft)	Ag ppm (o/t)	Cuppm (%)	Pb ppm (%)	Zn ppm (%)	other ppm (%)	other ppn (%)
083M085	A	S-	157	soil	350950	5748900		soil down ice from pyritic gneiss exposures						5	<u> </u>
083M085			158		351100	5750050	У	Bedrock sample of black weathered sulphide rich gouge	(0.749)	3.2	1479	\mathbf{r}	(Bi 1348	1
083M085	A-	M-	159	moss mat	352250	5750000	У								1
083M085	A -	Mj-	160	moss mat	353700	5742950	y			[67		
083M085	٨-	M	181	moss mat	353850	5743900	У						251	\sim	1
083M085	A	L	162	silt	351600	5745800	y				44		1	Bi 50)	
083M075	A-	M-	163	moss mat	349200	5730200	y						~		1
083M075	A-	M-	164	moss mat	349400	5731650	y		1						1
083M075	A-	M-	165	moss mat	349600	5732350	y								
083M075	A-	L-	166	silt	350300	5733900	y							1	
083M085	A-	M-	167	moss mat	352050	5741100	y y								
083M053	A-	M-	-168	moss mat	327050	5711500	y y						56		
083M053	A-	R-	-169	rock	327050			Platy quartz carbonate veining in ankeritically altered Eagle Bay meta Volcanics?							
				moss mat	327700	5710900	y								
083M043	A	R	171	rock	329100	5706400		Leucocratic fine grained quartzo-feldspathic biotite sericite gneiss, trace pyrite some interstitial carbonate.							
083M053	A-	M	172	moss mat	353050			· · · · · · · · · · · · · · · · · · ·							<u></u>
083M054				moss mat	337250										
083M054				moss mat	342150									\square	
083M054				moss mat	_343100							42		As 60	
083M054				moss mat	345600										
083M053				moss mat	322600					0.8	38		106	As 20	Ni 50
083M053	A-	R	178	rock	322600			Subcrop sample Strongly pyritic gneiss with graphite and possible molybdenite							
083M065				moss mat	348000	5722300						24			
083M064				moss mat		5719400							84	La 30	
083M064			181			5719050									
083M054						5716200			1		h				
			-183			5715050				(30	V	18		Y 39	
083M054			-184		341100										
083M053			165			5712300					32	18			
083M053				moss mat	353050										
083M053			-187		351900										
083M053			-188		330700	5709000	y y	massive very fine pyrite in shear zone.	10			12		Cr. 191	<u> </u>
083M054	A-	M	-189	moss mat	338500	5712100	y y				37	18	77	1	1
083M054			-190		338500	5712100	y y	Ankerite breccia vein in altered Eagle Bay volcanics.							
083M085	A.	int.	191	silt	351600	5745800	v	resample of A-L-162	na	1	· · · · · · · · · · · · · · · · · · ·	12	44	Ba 70	no Bi

UPPER ADAMS PROJECT

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ANALYTICAL RESULTS

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TO ACCOMPANY TECHNICAL REPORT

FOR NORTH ADAMS PROJECT

PART OF GRANT

98/99 P90

21-UG-90		ia Highway Manwise reported Ag Al % As Ba Bi Ca % Cd Co <u>Cr Cu Fe % La Mg % Mn Mo Na % Ni P</u>																										
ECO-TECH LABORA 10041 East Trans Car KAMLOOPS, B.C. V2C 6T4							IC.	CP CER	TIFIC#	ATE OF	" ANAL'	Y si s A	\K 98-6	32					87 K	79 MicC	SANCE Jueen D OPS, B	tive	SCIENC	e ser	VICES			
Pinone: 604-573-5700 Fax : 604-573-4557																					(ION: Li emplosu			ER				
Vakues in ppm unles	57 ess otherwise reported															S P S	ample ROJE(HIPME	type: S CT#: 0 NT#: 9 s submit	iit 129 78-06		dinger							
Et #. Tag #			Ås	Ba															Pb 12	Sb <5	Sn <20		Ti %	U <10	<u>v</u> 25	₩ <10	Y 7	<u>Zn</u> 44
1 A-L-191	⊲0.2	1.25	<5	ΛŬ	<9	U.47	~1	8	1F	18	2.03	20	0,40	518	~ 1	0.01	12.	GLU	•	~							·	
QC DATA:																												
Repeat: 1 A-L-191	<0.2	1.26	<5	75	<5	0.46	<1	9	17	20	2.05	20	0. 46	531	<1	0.01	12	590	12	<5	<20	33	0.05	<10	25	<10	7	44
Standard: GEO'98	1.2	1.81	50	170	10	1.73	শ	f 9	62	80	3.99	<10	0.95	675	<1	0.03	26	630	22	<5	<20	67	0.12	<10	79	<10	5	58

FCD-TECH LABORATORIES LTD. Frank J. Pezzoiti, A.Sc.T. B.C. Certified Assayer

df/631 XLS/98

20-Oct-98

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10/20/98

10:44

2250 573 4557

QC DATA: Resplit: Risplit: RVS 1 A-R-116 REP <0.2 1.62 <5 1.08 2 5 132 68 1.64 50 0.48 96 30 0.07 50 1320 12 <5 <20 51 0.09 <10 475 <10 Repeat: 1 A-R-116 REP <0.2 1.58 <5 1.03 2 5 135 70 1.63 60 0.48 96 30 0.07 50 1250 12 <5 <20 51 0.09 <10 465 <10 Standard:					
Fax : 604-573-4657 No. of samples received: 1 Sample Spe: Rock PRCLECT #: 029 SHIPMENT It is 90-06 Samples otherwise reported Mo. of samples received: 1 Sample Spe: Rock PRCLECT #: 029 SHIPMENT It is 90-06 Samples submitted by: L Lindinger Ca % Cd Co Cr Cu Fe % La Mg % Min< Mo. Na %	879 McQueen Drive KAMLOOPS, BC	\ K 98-631	ATE OF ANALYSIS AK 98-631	ICP CERTIFIC	0041 East Trans Canada Highway (AMLCOPS, B.C.
Fax : :604-573-4557 No. of samples recorded: 1 Sample type: Rock PRCLECT #: 029 SHIPMENT #: b9-06 Samples submitted by: L Lindinger Values in ppm unless otherwise reported Mo. of samples recorded: 1 Sample type: Rock PRCLECT #: 029 SHIPMENT #: b9-06 Samples submitted by: L Lindinger Col Data: Respont: RS1 AR-116 REP Col Data: Respont: 1 AR-116 REP v0.2 1.62 <5 140 <5 1.08 2 5 132 68 1.64 50 0.48 96 30 0.07 50 1320 12 <5 <20 51 0.09 <10 475 <10	ATTENTION: LEO LINDINGER				hone: 604-573-5700
Sample type: Rock PROJECT #: 029 StiTMENT #: 99-06 Samples submitted by: L. Lindinger Et #. Tag # Ag Al % As Ba Bi Ca % Cd Co Cr Cu Fe % La Mg % Nin Mo Na % Ni P Pb Sb Sn Sr Ti % U V V 1 A-R-116 REP <0.2 1.80 <5 1.04 2 5 136 71 1.67 50 0.49 102 30 0.08 50 1250 12 <5 20 49 0.09 <10 470 <10 CC.DATA: Respirit: Respirit: Respiriiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii					ax : 604-573-4557
1 A-R-116 REP <0.2	Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-06			akies in ppm unless otherwise reported	
1 A-R-116 REP <0.2 1.60 <5 135 <5 1.04 2 5 136 71 1.67 50 0.49 102 30 0.08 50 1250 12 <5 <20 49 0.09 <10 470 <10 OC DATA: Respirit: Respirit: R/S 1 A-R-116 REP <0.2 1.62 <5 1.08 2 5 132 68 1.64 50 0.48 96 30 0.07 50 1320 12 <5 <20 51 0.09 <10 475 <10 Respirit: R/S 1 A-R-116 REP <0.2		Mg % Mn Mo Na %	CuFe% LaMag%	Ba BiCa% Cd Co Cr	Et#. Tag# _ Ag Aí% _As
Resplit: RVS 1 A-R-116 REP <0.2) 0.08 50 1250 12 <5 <20 49 0.03 <10 470 <10 9 174	0.49 102 30 0.08	71 1.67 50 0.49	135 <5 1.04 2 5 136	1 A-R-116 REP <0.2 1.60 <5
Repeat: 1 A-R-116 REP <0.2 1.58 <5 145 <5 1.03 2 5 135 70 1.63 60 0.48 96 30 0.07 50 1250 12 <5 <20 51 0.09 <10 465 <10 Standard:					lespőt:
1 A-R-116 REP <0.2 1.58 <5 145 <5 1.03 2 5 135 70 1.63 60 0.48 96 30 0.07 50 1250 12 <5 <20 51 0.09 <10 465 <10 Standard:) 0.07 50 1990 19 25 290 51 0.00 -40 47° -40 0 477	0.48 96 30 0.07	68 1.64 50 0.48	140 <5 1.08 2 5 132	/S 1 A-R-116 REP <0.2 1.62 <5
	0 0.07 50 1320 12 <5 <20 51 0.09 <10 475 <10 9 177				
GEO'988 1.2 1.82 50 170 <5 1.74 <1 19 63 80 4.02 <10 0.95 674 <1 0.03 26 640 20 <5 <20 66 0.12 <10 85 <10		0.48 96 30 0.07	70 1.63 60 0.48	145 <5 1.03 2 5 135	•

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

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

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

ICP CERTIFICATE OF ANALYSIS AK 98-568

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 14 Sample type: Moss PROJECT #: 029 SHIPMENT #: 98-04 Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

	Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr_	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
••••	1	A-M-168	-	<0.2	1.40	5	105	<5	1.06	<1	9	21	22	2.02	30	0.36	882	<1	0.02	23	1050	12	<5	<20	37	0.05	<10	24	<10	13	57
	2	A-M-170	-	<0.2	0.57	<5	60	<5	0.28	<1	3	7	4	0.81	10	0.16	250	<1	0.01	6	710	6	<5	<20	16·	0.03	<10	13	<10	4	21
	3	A-M-172	-	<0.2	1.33	<5	130	<5	0.51	<1	5	8	6	1.17	20	0.22	585	<1	0.01	7	1060	12	<5	<20	45	0.04	<10	17	<10	7	34
	4	A-M-173	-	<0.2	1.22	<5	145	<5	0.41	<1	13	11	23	1.75	20	0.33	438	<1	0.02	28	670	10	<5	<20	36	0.07	<10	26	<10	9	38
	5	A-M-174	-	<0.2	0.94	<5	75	5	0.27	<1	10	9	15	2.19	10	0.25	299	<1	0.01	15	500	10	<5	<20	16	0.07	<10	23	<10	3	42
	6	A-M-175	· _	<0.2	1.40	60	95	10	0.48	<1	15	21	27	3.06	30	0.49	532	<1	<0.01	33	730	42	<5	<20	34	0.04	<10	24	<10	13 [.]	62
	7	A-M-176	-	<0.2	0.90	<5	65	5	0.47	<1	10	.19	12	2.51	10	0.45	421	<1	0.01	18	1280	14	<5	<20	21	0.03	<10	25	<10	7 ·	48
•	· 8	A-M-177	<5	0.8	1.48	20	180	<5	0.57	<1	32	21	38	5.34	<10	0.50	6116	4	<0.01	50	1140	24	<5	<20	43	0.02	<10	20	<10	3	106
	9	A-M-179	-	<0.2	0.93	<5	65	<5	0.42	<1	6	9	8	1.60	30	0.25	424	<1	0.01	8	650	10	<5	<20	20	0.04	<10	22	<10	9	32
	10	A-M-180		<0.2	1.13	<5	85	<5	0.40	<1	12	15	19	2.91	10	0.50	844	2	<0.01	22	920	14	<5	<20	28	0.03	<10 [·]	28	<10	5	84
. •	.11	A-M-182	-	<0.2	1.44	<5	135	<5	0.66	<1	13	24	18	2.60	10	0.67	787	<1	0.02	20	1320	16	<5	<20	46	0.06	<10	37	<10	8	65
· · ·	12	A-M-183	· -	<0.2	1.84	<5	165	10	0.78	<1	10	22	30	2.49	50	0.57	617	<1	0.02	17	600	18	<5	<20	58	0.06	<10	36	<10	39	49
-	13	A-M-186	<5	<0.2	0.99	<5	90	10	0.45	<1	15	22	20	3.34	10	0.45	446	<1	0.02	24	1230	14	<5	<20	20	0.06	10	33	<10	4	56
	14 ·	A-M-189	<5	. <0.2	1.34	5	115	10	0.56	<1	19	39	37	3.75	<10	0.78	562	<1	0.02	39	1170	18	<5	<20	25	0.08	<10	39	<10	3	77

RENAISSANCE GEOSCIENCE SERVICES

ICP CERTIFICATE OF ANALYSIS AK 98-568

ECO-TECH LABORATORIES LTD.

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Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Со	Cr	Cu	Fe %	La Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	·U	v	w	Y	Zn
	ΔΤΔ·											<u> </u>									<u></u>					<u> </u>			
Repea																													
1	A-M-168	-	<0.2	1.33	5	100	<5	1.03	<1	9	17	20	1.99	30 0.35	816	<1	0.02	20	1110	12	<5	<20	34	0.05	<10	24	<10	12	56
10	A-M-180	-	<0.2	1.17	<5	85	5	0.42	<1	13	13	21	3.06	10 0.52	870	1	<0.01	21	990	16	<5	<20	26	0.04	<10	30	<10	5	86
13	A-M-186	<5	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oto mal	l-							-						í							•								
Stand GEO'9		145	1.2	1.80	70	160	<5	1.86	<1	18	64	78	3.81	<10 0.96	675	<1	0.02	22	630	22	<5	<20	58	0.08	<10	78	<10	5	67

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

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

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

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ICP CERTIFICATE OF ANALYSIS AK 98-569R

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RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 4 Sample type: Silt PROJECT #: 029 SHIPMENT #: 98-04 Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

•	Et #.	Tag #	Au(ppb)	Ag	_AI %	As	Ba	Bi Ca %	Cd	Co	Cr	Cu Fe%_	La Mg %	Mn	Mo Na%	<u>Ni</u> P	Pb	Sb	Sn	<u>Sr Ti%</u>	<u> </u>	<u> </u>	W	<u>Y</u>	Zn
	1	A-L-181	-	<0.2	0.68	<5	70	5 0.32	<1	7	13	12 1.80	<10 0.33	330	<1 0.01	11 850	10	<5	<20	12 0.03	<10	19	<10	5	33
	2	A-L-184	<5	<0.2	1.00	<5	55	5 0.44	<1	8	14	14 2.06	<10 0.48	342	<1 0.01	10 730	12	<5	<20	19 0.05	<10	27	<10	5	39
	3	A-L-185	<5	<0.2	1.52	<5	95	5 0.61	<1	10	20	32 2.61	20 0.64	390	<1 0.02	12 540	18	. <5	<20	27 0.09	<10	40	<10	12	52
	4	A-L-187	<5	<0.2	0.90	<5	70	5 0.33	<1	9	15	15 2.13	20 0.35	398	<1 0.01	20 530	12	<5	<20	23 0.04	<10	21	<10	8	45

<u>QC</u> Rep	D <u>ATA:</u> eat:																													
· 1	A-L-181	-	<0.2	0.68	<5	65	<5	0.30	<1	7	11	10	1.74	<10	0.33	330	<1	<0.01	10	820	8	<5	<20	9	0.04	<10	19	<10	4	34
2	A-L-184	<5	-	-	-	-		-	-	••	-	-	-	•	-	-	-	-	-	-	-	-	-		· -	-	-	-	-	÷
Star GEC	dard: 198	145	1.4	1.82	65	160	<5	1.77	· <1	18	66	81	3.90	<10	0.98	692	<1	0.02	22	650	22	<5	<20	56	0.09	<10	70	<10	5	68

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

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1 H	0041	A TECH LABORATORIES LTD. I East Trans Canada Highway ILOOPS, B.C. 6T4 ne: 604-573-5700 : 604-573-4557															87 K	79 Mc(Queen E I OPS, E		CE SER	VICES	3						
F -	ax :	604-573-4		wise I	reported	,															N Si Pi Si	o. of s ample ROJE HIPME	amples type: CT #: 0 ENT #:	29					
	Et #.	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo Na %	Ni	P	Pb	Sb	Sn	Sr Ti%	U	v	W	Y	Zn
. =	1 2 3	A-R-178 A-R-188 A-R-190	10 10 5	<0.2		20 <5 <5	145 55 35	<5 <5 <5	1.01 0.05 4.97	<1 <1 1	6 6 20	163 191 75	13 31 94	2.17 5.41 6.04		0.34 0.14 1.76	395 118 875	5 <0.01 8 0.02 7 <0.01	14 10 39	360 280 800	4 12 10	5 <5 <5	<20 <20 <20	29 <0.01 3 <0.01 32 <0.01	<10 <10 <10	6 8 62	<10 <10 <10	2 <1 23	39 25 95
F	<mark>)C DA</mark> Resplit R/S 1		5	<0.2	0.50	25	170	<5	1.08	<1	7	173	14	2.37	<10	0.37	436	5 <0.01	14	390	4	5	<20	29 <0.01	<10	6	<10	1	40
ŀ	Repeat 1	: A-R-178	10	<0.2	0.44	20	150	<5	1.05	<1	6	163	13	2.22	<10	0.35	400	5 <0.01	14	360	4	<5	<20	29 <0.01	<10	6	<10	2	40
	i tand a 3EO'98		145	1.0	1.77	70	150	<5	1.83	<1	17	64	75	3.69	<10	0.96	651	<1 0.02	20	690	22	<5	<20	59 0.08	<10	75	<10	6	65

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

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

Phone: 604-573-5700 Fax : 604-573-4557 ICP CERTIFICATE OF ANALYSIS AK 98-552

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RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

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ATTENTION: LEO LINDINGER

No. of samples received: 21 Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-03 Samples submitted by: L. Lindinger

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Values in ppm unless otherwise reported

	Et #	Tag #	Ag	AI %_	As	Ва	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La M	g %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	v	w	<u>Y</u>	Zn
Ħ	1	A-R-007	1.4	4.16	<5	20	365	3.73	<1 .	9	67	199	4.49	<10 0	0.02	164	7	0.64	11	580	10	<5	<20	217	0.02	<10	3	<10	<1	29
	2	A-R-015	<0.2	3.29	<5	10	10	3.18	<1	47	107	117	4.66	<10 (0.05	379	1	0.05	176	1780	16	<5	<20	385	0.20	<10	8	<10	<1	4
	3	A-R-017	<0.2	6.94	15	15	<5	6.38	<1	14	64	42	1.18	<10 (0.03	93	2	0.67	39	480	20	<5	<20	1162	0.06	<10	6	<10	<1	28
	4	A-R-025	<0.2	1.53	<5	40	<5	0.27	<1	59	174	482	>10	<10 (0.74	135	12	0.05	83	1050	2	<5	<20	17	0.27	10	60	<10	<1	58
	. 5	A-R-031	<0.2	1.44	<5	105	15	0.08	<1	10	170	30	4.33	<10 . (0.81	200	<1	0.03	11	220	6	<5	<20	- 15	0.26	<10	60	<10	<1	34
	6	A-R-045	0.2	6.70	10	<5	<5	3.99	<1	25	117	115	4.19	<10 0	0.70	279	5	0.47	46	540	20	<5	<20	3196	0.09	<10	43	<10	<1	60
	7	A-R-046	<0.2	0.35	<5	35	<5	0.06	<1	11	255	101	2.77	<10 (.08 ·	75	12	0.04	9	30	2	<5	<20	44	0.02	<10	2	<10	<1	-5
	8	A-R-047	0.6	4.53	5	5	<5	5.98	<1	29	57	386	5.04	20 0	0.04	115	8	0.50	5	>10000	2	<5	<20	994	0.02	<10	12	<10	20	11
	9	A-R-049	0.2	5.99	10	5	<5	4.89	<1	24	79	213	2.32	<10 (0.02	117	4	0.23	39	710	14	<5	<20	513	0.05	<10	5	<10	<1	7
	10	A-R-050	<0.2	2.95	<5	40	<5	0.93	<1	27	109	144	5.64	<10 1	1.47	505	<1	0.19	62	350	6	<5	<20	171	0.21	<10	68	<10 ·	<1	74
	11	A-R-051	0.4	0.86	<5	35.	<5	1.41	1	102	71	429	9.53	<10 (0.48	657	8	0.14	125	1920	<2	<5	<20	61	0.08	<10	43	<10	<1	70
	12	A-R-058	<0.2	7.11	15	35	<5	5.90	<1	14	96	133	2.26	<10 (0.04	76	4	0.23	27	1290	12	<5	<20	781	0.07	<10	8	<10	<1	1
:	13	A-R-063	<0.2	1.21	·<5	40	<5	>10	113	24	114	525	9.85	<10 <0	0.01	326	18	0.16	102	670	4370	<5	<20	148	0.02	<10	22	<10	<1 >	10000
	14	A-R-064	>30	2.81	<5	40	220	4.59	53	24	197	177	5.58	<10 (0.08	458	<1	0.86	81	1240	>10000	<5	<20	89	0.10	<10	43	<10	6 >	10000
	15	A-R-070	<0.2	6.10	15	50	<5	4.84	<1	15	115	103	1.83	<10 (0.12	104	4	0.16	30	580	90	<5	<20	258	0.07	<10	11	<10	3	125
	16	A-R-072	<0.2	6.16	15	45	<5	4.35	<1	11	78	38	1.26	<10 (0.21	63	2	0.53	30	610	60	<5	<20	310	0.05	<10	12	<10	<1	47
	17	A-R-074	<0.2	1.36	<5	30	<5	0.74	<1	40	102	72	4.49	<10 (0.47	130	6	0.17	131	880	16	<5	<20	64	0.16	<10	56	<10	<1	39
	18	A-R-079	<0.2	1.39	<5	35	<5	1.54	<1	42	125	203	4.92	<10 (0.06	135	6	0.07	68	1510	12	<5	<20	122	0.14	<10	15	<10	<1	35
• •	19	A-R-089	<0.2	4.21	10	25	<5	3.81	<1	9	108	18	0.99	<10 (0.03	66	37	0.36	55	1280	36	<5	<20	231	0.06	<10	17	<10	<1	50
	20	A-R-090	<0.2	0.92	<5	40	<5	0.79	<1	38	160	154	4.90	<10 (0.73	140	4	0.12	61	760	6	<5	<20	29	0.19	<10	67	<10	<1	42
	21 ·	FWN 98-1	<0.2	1.31	<5	100	10	0.04	<1	10	220	18	3.31	<10 (0.45	165	3	0.04	14	10	8	<5	<20	8	0.25	<10	41	<10	<1	47

RENAISSANCE G	GEOSCI	ENCE S	ERVIC	ES			(CP CEI	RTIFIC	ATE O	F ANAL	YSIS /	AK 98-	552										E	CO-TE	ECH LA	BORAT	ORIES LTD.
Et #Tag #	Ag	AI %	As	Ba	Bi	<u>Ca %</u>	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	<u>Ti %</u>	U	v		Y	Zn
<u>QC DATA:</u> <i>Resplit:</i> R/S 1 A-R-007	1.4	4.35	5	20	400	3.91	<1	11	59	213	4.57	<10	0.01	162	7	0.66	11	620	12	<5	<20	222	0.02	<10	3	<10	<1	32
<i>Repeat:</i> 1 A-R-007 10 A-R-050	1.2 <0.2		<5 <5	20 40	375 <5	4.05 0.93	.<1 <1	9 29	67 112	197 142	4.48 5.80	<10 <10	0.02 1.48	172 526	6 <1	0.69 0.19	11 64	580 350	10 10	<5 <5	<20 <20	231 181	0.02 0.22	<10 <10	3 69	<10 <10	<1 <1	30 83
<i>Standard:</i> GEO'98	1.4	1.84	60	165	<5	1.80	<1	20	64	84	4.20	<10	0.96	708	<1	0.04	22	690	20	<5	<20	65	0.11	<10	79	<10	5	75

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

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

Phone: 604-573-5700 Fax : 604-573-4557 ICP CERTIFICATE OF ANALYSIS AK 98-541

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

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ATTENTION: LEO LINDINGER

No. of samples received: 17 Sample type: Moss Mat PROJECT #: 029 SHIPMENT #: 98-02 Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

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Et #	. Tag #	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	ν	w	Y	Zn	
1	A-M-094	<0.2	0.84	<5	60	<5	0.52	<1	4	12	24	1.02	<10	0.20	348	<1	0.02	7	410	14	<5	<20	53	0.06	10	14	<10	3	39	
2	A-M-096	<0.2	1.24	<5	105	10	0.46	<1	10	26	18	2.33	<10	0.53	268	<1	0.02	15	930	10	<5	<20	33	0.15	<10	35	<10	<1	55	
3	A-M-097	<0.2	1.26	<5	85	<5	0.71	<1	10	17	24	2.21	10	0.39	634	<1	0.02	14	1430	16	<5	<20	111	0.08	<10	33	<10	6	70	
4	A-M-104	<0.2	1.08	<5	30	<5	0.58	<1	5	4	14	1.07	20	0.28	415	<1	0.01	3	720	14	<5	<20	66	0.04	<10	19	<10	7	51	
5	A-M-114	<0.2	1.23	<5	80	<5	0.83	<1	8	12	15	1.58	<10	0.29	842	<1	0.02	9	740	16	<5	<20	55	0.07	<10	20	<10	1	58	
6	A-M-126	<0.2	0.85	<5	20	<5	0.64	<1	. 7	6	10	1.42	<10	0.46	368	<1	0.02	3	490	10	<5	<20	50	0.06	10	34	<10	10	34	
7	A-M-137	<0.2	1.41	<5	55	<5	0.39	<1	15	20	35	2.22	10	0.50	402	<1	0.02	27	730	12	<5	<20	33	0.08	<10	29	<10	4	67	
8	A-M-143	<0.2	1.13	<5	60	<5	0.29	<1	10	13	15	1.89	10	0.36	323	<1	0.02	14	630	10	<5	<20	22	0.06	<10	21	<10	4	47	
9	A-M-145	<0.2	0.76	<5	30	<5	0.23	<1	8	8	12	1.11	30	0.25	280	<1	0.01	15	300	8	<5	<20	17	0.04	<10	12	<10	18	26	
10	A-M-150	<0.2	0.98	<5	40	<5	0.20	<1	12	12	13	1.88	<10	0.40	325	<1	0.01	14	510	14	<5	<20	8	0.05	<10	17	<10	5	46	
11	A-M-159	< 0.2	0.86	<5	35	<5	0.29	<1	9	12	12	1.65	10	0.40	176	<1	0.01	13	790	10	<5	<20	12	0.06	<10	20	<10	4	33	
12	A-M-160	<0.2	1.00	<5	45	5	0.45	<1	9	27	10	1.67	<10	0.32	489	<1	0.03	14	560	14	<5	<20	23	0.04	<10	21	<10	3	67	
13	A-M-161	<0.2	0.86	<5	60	<5	0.89	1	5	19	8	1.29	<10	0.24	350	<1	0.02	7	500	14	<5	<20	45	0.07	10	24	<10	4	251	
14	A-M-163	<0.2	0.94	<5	65	<5	0.49	<1	7	11	7	1.74	30	0.28	438	<1	0.02	9	1240	10	<5	<20	23	0.06	<10	26	10	10	43	
15	A-M-164	<0.2	1.13	<5	70	<5	0.34	<1	6	11	10	1.66	20	0.28	360	<1	0.02	7	560	14	<5	<20	21	0.06	<10	22	<10	4	41	
16	A-M-165	<0.2	1.03	<5	60	<5	0.31	<1	7	11	11	1.71	20	0.27	417	<1	0.02	7	640	12	<5	<20	16	0.06	<10	21	<10	6	43	
17	A-M-167	<0.2	0.69	<5	55	<5	0.95	<1	3	6	9	1.06	<10	0.19	292	<1	0.01	6	390	10	<5	<20	68	0.03	<10	13	<10	9	39	

RENAISSANCE GEOSCIENCE SERVICES

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ICP CERTIFICATE OF ANALYSIS AK 98-541

ECO-TECH LABORATORIES LTD.

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Et #. Tag #	Ag	AI %	As	Ba	Bi	Ca %	Cd	Со	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	<u> Ti %</u>	U	v	w	<u>Y</u>	Zn
QC DATA:																												
Repeat:																												
1 A-M-094	<0.2	0.88	<5	65	<5	0.55	<1	4	10	26	1.04	<10	0.21	372	<1	0.02	9	450	16	<5	<20	57	0.06	10	14	<10	3	41
10 A-M-150	<0.2	1.01	5	40	<5	0.20	<1	12	14	13	1.92	<10	0.41	339	<1	0.01	16	500	14	<5	<20	9	0.05	<10	17	<10	5	47
<i>Standard:</i> GEO'98	1.6	1.83	65	160	<5	1.75	<1	19	61	79	4.08	<10	0.97	684	<1	0.02	22	650	20	<5	<20	63	0.12	<10	79	<10	5	70

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

Page 2

ECO-TECH LABO 10041 East Trans (KAMLOOPS, B.C. V2C 6T4	Canada Highwa					IC	CP CEF	rtific	ATE O	FANA	YSIS /	AK 98-	540-Ro	ck				8 8	79 McC	SANCE Queen D OPS, B	Drive	CIENC	E SER	VICES	-				
Phone: 604-573-57 Fax : 604-573-45																				TION: L			ER						
		ł								•								S F	ample ROJE	amples type: F CT #: 0 ENT #: 1	Rock D29								
Values in ppm uni	less otherwise	report	ted															S	amples	s submit	tted by:	L, Lin	dinger						
Et #. Tag #	Ag Al%	As	Ba		Ca %	Cd	Co	Cr		Fe %		<u>Mg %</u>	Mn		Na %	Ni	P.		Sb	Sn	Sr		บ	V	W		Zn		` <i>*</i> .
1 A-R-158	3.2 0.64	<5	65	1340	0.01	<1	11	106	1479	>10	<10	0.19	46	13	0.02	9	120	<2	<5	<20	4	0.05	30	17	<10	<1	<1		
QC/DATA <i>Repeat:</i> 1 A-R-158	3.6 0.64	<5	60 ·	1390 <	<0.01	<1	11	105	1508	>10	<10	0.19	45	13	. 0.02	8	130	<2	<5	<20	2	0.05	30	17	<10"	<1	<1		
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2-Oct-98

GEO'98 70 1.4 1.76 65 150 10 1.82 87 4.05 <10 0.98 657 <1 0.03 25 620 18 <5 <20 58 0.12 <10 77 <10 5 19 61 <1

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

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2-Oct-98

ECO-TECH LABORATORIES LTD.

ICP CERTIFICATE OF ANALYSIS AK 98-540-silt **RENAISSANCE GEOSCIENCE SERVICES** 10041 East Trans Canada Highway 879 McQueen Drive KAMLOOPS, B.C. KAMLOOPS, BC V2C 6T4 V2B 7X8 Phone: 604-573-5700 ATTENTION: LEO LINDINGER Fax : 604-573-4557 No. of samples received: 4 Sample type: Silt ł PROJECT #: 029 SHIPMENT #: None Given Values in ppm unless otherwise reported Samples submitted by: L. Lindinger Et #. Tag # Ag Al% As Ba Bi Ca % Cd Co Cr Cu Fe% La Mg % Mn Mo Na % Ni Ρ Pb Sb Sn Sr Ti% U V W A-L-095 <0.2 1 1.40 <5 105 10 0.51 13 <1 24 32 2.27 <10 0.56 310 20 <1 0.04 17 710 <5 <20 33 37 0.14 <10 <10 2 A-L-139 <0.2 0.81 <5 35 0.20 <5 <1 7 7 11 1.48 <10 0.39 234 <1 0.01 6 400 8 <5 <20 13 0.05 <10 19 <10 3 A-L-162 <0.2 0.61 <5 25 50 0.15 <1 5 1.38 4 44 <10 0.29 176 <1 0.01 6 4 210 <5 <20 10 0.03 <10 14 <10 4 A-L-165 <0.2 0.64 <5 40 15 0.12 <1 5 17 1.37 6 <10 0.25 270 0.01 <1 5 210 6 <5 <20 7 0.05 <10 15 <10 QC DATA: Repeat: 1 A-L-095 <0.2 1.39 <5 95 10 0.51 13 <1 23 33 2.25 <10 0.55 305 <1 0.04 17 750 20 <5 <20 34 0.13 <10 32 <10 Standard:

GEO'98 1.0 1.87 65 155 5 1.78 19 61 82 4.25 <1 <10 0.97 675 <1 0.02 23 650 20 <5 <20 69 0.10 <10 82 <10 5 67

CO-TECH LABORATORIES LTD. Frank J. Pezzotti, A.Sc.T. p~/ B.C. Certified Assaver

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

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

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XLS/98

ICP CERTIFICATE OF ANALYSIS AK 98-540-Soil

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 7 Sample type: Soil PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

Et #. Tag #	Ag Al%	As	Ba	Bi C	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	v	w	Y	Zn
1 A-S-134	<0.2 2.63	5	150	<5	0.25	<1	16	28	40	4.13	<10	0.64	346	<1	0.02	24	520	30	<5	<20	80	0.16	<10	38	<10	<1	129
2 A-S-144	<0.2 1.90	<5	80	<5	0.10	<1	12	28	80	4.90	20	0.72	254	5	0.02	19	670	12	<5	<20	12	0.11	<10	39	<10	4	48
3 A-S-146	<0.2 2.77	5	125	5	0.18	<1	20	31	31	3.69	10	0.77	311	<1	0.02	36	450	16	<5	<20	18	0.13	<10	39	<10	2	50
4 A-S-149	0.6 2.44	<5	30	5	0.02	<1	4	9	11	2.19	<10	0.07	82	<1	0.02	2	420	26	<5	<20	3	0.11	<10	30	<10	<1	15
5 A-S-155	<0.2 2.81	<5	115	5	0.09	<1	13	26	38	4.04	<10	0.59	334	<1	0.02	17	620	18	່ <5	<20	13	0.13	<10	53	<10	<1	47
6 A-S-156	<0.2 3.35	.<5	80	10	0.04	<1	11	32	29	4.31	<10	0.53	282	<1	0.01	16	920	20	<5	<20	5	0.11	<10	43	<10	<1	47
7 A-S-157	<0.2 2.94	<5	85	5	0.11	<1	11	23	38	3.60	<10	0.45	392	<1	0.02	14	640	20	<5	<20	12	0.11	<10	38	<10	<1	45
QC DATA:																											
Standard:					4 500																						
GEO'98	1.0 1.87	65	155	5	1.78	<1	19 .	61	. 82	4.25	<10	0.97	675	<1	0.02	23	650	20	<5	<20	69	0.10	<10	82	<10	5	67

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

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

Phone: 604-573-5700 Fax : 604-573-4557 ICP CERTIFICATE OF ANALYSIS AK 98-539

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

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ATTENTION: LEO LINDINGER

No. of samples received: 15 Sample type: Rock PROJECT #: 029 SHIPMENT #: None Given Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

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Et #	. Tag # _	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	<u>v</u>	<u></u>	Y	Zn
1	A-R-101-A	0.4	0.52	<5	60	<5	0.14	<1	4	107	59	4.70	<10	0.19	316	5	0.03	<1	370	10	<5	<20	12	0.03	<10	12	<10	<1	39
2	A-R-101-B	0.8	0.52	<5	50	5	0.27	<1	· 3	150	45	4.89	<10	<0.01	653	8	0.03	1	120	32	<5	<20	17	0.01	<10	17	<10	<1	19
• 3	A-R-103	2.4	0.33	<5	50	25	0.15	1	16	107	68	>10	<10	<0.01	74	560	0.04	3	<10	24	<5	<20	41	0.02	10	5	<10	<1	75
- 4	A-R-111	0.4	0.52	<5	105	<5	4.81	<1	33	48	446	4.55	260	0.30	271	9	0.08	25 🗧	>10000	2	<5	<20	446	0.07	<10	62	<10	65	22
- 5	A-R-112	0.4	7.14	10	30	<5	4.87	<1	44	49	404	6.21	<10	0.09	104	9	0.77	35	850	8	<5	<20	713	0.04	<10	-8	<10	<1	14
		•																											
۰6	A-R-113	<0.2	1.88	<5	125	10	0.09	<1	12	182	33	3.64	<10	0.8 9	152	<1	0.04	9	200	10	<5	<20	9	0.25	<10	54	<10	<1	. 49
7	A-R-116	<0.2	1.87	<5	260	<5	0.83	5	5	195	64	2.07	70	0.78	127	42	0.07	78	730	12	<5	<20	42	0.12	<10	885	<10	12	322
۰8	A-R-119	<0.2	1.19	<5	65	<5	0.43	<1	24	94	77	5.18	70	0.50	459	6	80.0	16	1460	6	<5	<20	66	0.07	<10	106	<10	9	99
9	A-R-120	<0.2	1.97	<5	60	<5	0.16	<1	16	129	33	5.45	50	1.01	1019	5	0.07	33	530	10	<5	<20	36	0.02	<10	131	<10	6	259
10	A-R-128	0.6	0.76	<5	25	<5	0.09	<1	6	291	49	1.67	10	0.39	150	5	0.03	10	290	190	<5	<20	5	0.05	<10	8 9	<10	6	42
11	A-R-133	0.8	0.53	<5	20	<5	0.88	1	39	150	173	8.06	<10	<0.01	186	12	0.03	104	100	<2	<5	<20	104	0.05	<10	16	<10	<1	11
12	A-R-136	0.6	2.79	<5	55	<5	0.03	<1	45	148	359	8.46	<10	1.62	459	11	0.02	32	130	8	<5	<20	5	0.08	<10	59	<10	<1	40
13	A-R-147	<0.2	0.20	<5	5	<5	0.02	<1	3	219	191	1.40	<10	0.12	109	7	0.01	3	30	4	<5	<20	<1	0.02	<10	5	<10	<1	18
14	A-R-151	<0.2	3.00	<5	50	<5	0.33	1	157	145	761	>10	<10	1.85	357	8	0.05	101	510	6	<5	<20	29	0.14	<10	72	<10	<1	57
15	A-R-153	<0.2	1.18	<5	40	<5	0.13	<1	24	99	162	3.30	<10	0.96	405	5	0.04	50	420	8	<5	<20	11	0.07	<10	20	<10	3	21

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

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

ICP CERTIFICATE OF ANALYSIS AK 98-521

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 18 Sample type: moss PROJECT #: none given SHIPMENT #: none given Samples submitted by: L. LINDINGER

Values in ppm unless otherwise reported

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Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	A-M-009	<5	<0.2	1.32	<5	60	<5	0.39	<1	18	20	20	2.33	<10	0.52	504	<1	0.01	17	640	14	<5	<20	28	0.07	<10	29	<10	4	50
2	A-M-030	<5	<0.2	1.13	<5	45	5	0.61	<1	12	21	23	2.11	20	0.62	188	<1	0.04	29	1230	12	<5	<20	39	0.10	<10	23	<10	13	35
3	A-M-032	<5	<0.2	1.55	<5	75	5	0.97	<1	12	24	20	2.11	<10	0.68	343	<1	0.04	20	1400	20	5	<20	58	0.10	<10	29	<10	7	84
• 4	A-M-033	<5	<0.2	1.58	5	95	<5	0.55	<1	11	17	16	1.68	<10	0.35	439	<1	0.02	22	650	16	<5	<20	32	0.09	<10	25	<10	4	45
5	A-M-034	<5	<0.2	1.95	<5	115	10	1.01	<1	18	31	26	2.56	<10	0.61	436	<1	0.04	38	1940	22	<5	<20	63	0.16	<10	38	<10	9	67
6	A-M-035	<5	0.2	1.98	<5	165	<5	1.95	<1	14	37	49	2.13	20	0.52	413	<1	0.13	52	1180	26	<5	<20	116	0.11	10	30	<10	47	89
7	A-M-036	<5	<0.2	1.46	<5	70	<5	0.45	<1	15	16	14	1.42	<10	0.30	459	<1	0.05	16	600	12	<5	· <20	25	0.08	<10	21	<10	4	45
. 8	A-M-038	<5	<0.2	1.95	<5	140		0.95	<1	14	30	28	2.35	<10		891	<1	0.08	28	1450	18	<5	<20	57	0.13	<10	36	<10	6	103
9	A-M-039	<5	<0.2	2.95	10	190	10	0.44	<1	28	27	25	2.86	<10	0.55	1360	<1	0.04	23	760	24	<5	<20	34	0.15	<10	34	<10	3	110
10	A-M-065	<5	0.4	1.22	<5	65	<5	1.52	<1	9	16	17	1.31	<10	0.23	1212	<1	0.06	18	760	16	<5	<20	132	0.03	<10	13	<10	8	74
11	A-M-067	<5	<0.2	1.06	<5	75	<5	0.62	<1	22	230	28	. 1.84	<10	1.67	642	<1	0.06	161	750	14	10	<20	52	0.05	<10	19	<10	3	69
12	A-M-071	<5	<0.2	1.01	<5	<u>110</u>	10	1.11	<1	10	29	16	1.59	<10	0.37	421	<1	0.05	26	820	20	<5	<20	50	0.06	10	23	<10	4	<u>122</u>
13	A-M-073	<5	<0.2	1.21	<5	65	<5	0.68	<1	12	37	17	1.67	<10	0.32	469	<1	0.06	27	770	18	<5	<20	53	0.06	<10	19	<10	6	61
14	A-M-083	<5	0.4	1.18	<5	70	<5	1.85	<1	7	23	14	1.14	<10	0.24	862	<1	0.07	12	840	14	<5	<20	78	0.04	20	23	<10	· 4	53
15	A-M-084	<5	<0.2	1.27	<5	85	<5	1.72	<1	10	23	20	1.44	<10	0.32	683	<1	0.07	19	1240	16	5	<20	70	0.04	10	23	<10	7	84
16	A-M-088	<5	<0.2	0.92	<5	55	<5	0.67	<1	7	14	12	1.35	<10	0.18	668	<1	0.02	11	560	12	<5	<20	33	0.06	<10	25	<10	6	50
17	A-M-091	<5	<0.2	0.99	<5	50	<5	1.54	<1	5	18	11	1.06	<10	0.19	452	<1	0.04	10	690	18	<5	<20	5 9	0.04	20	-17	<10	. 3	98
18	A-M-093	<5	<0.2	0.84	<5	80	<5	2.42	<1	- 7	65	20	0.83	<10	0.40	1100	2	0.15	- 39	1060	16	10	<20	217	0.02	<10	12	<10	5	103

RENAISSANCE	GEOSCIENCE	SERVICES
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ICP CERTIFICATE OF ANALYSIS AK 98-521

ECO-TECH LABORATORIES LTD.

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<u> </u>	Tag #	Au(ppb)	Ag	AI %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La I	Mg %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	<u>Ti %</u>	U	v	w	Y	Zn
QC DA	TA:																													
	: A-M-009 A-M-065 A-M-088	-	0.6		<5 (<5 -	60 75		0.38 1.59	<1 <1	18 9 -	21 16 -	20 19.	2.39 1.30 -			518 1280 -	<1 <1	0.01 0.06 -	18 20	630 780	16 18 -	<5 <5 -	<20 <20	29 148 -	0.07 0.03	<10 <10	31 12	<10 <10	4 9	53 79
Standa GEO'98		130	1.0	1.82	65	150	5	1.86	<1	19	64	77	3.82	<10	0.92	670	<1	0.02	24	640	22	5	<20	54	0.10	<10	72	<10	5	69

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

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

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

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ICP CERTIFICATE OF ANALYSIS AK 98-520

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

ATTENTION: LEO LINDINGER

No. of samples received: 18 Sample type: Soil PROJECT #: 029 SHIPMENT #: 98-01 Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

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Et #	t. Tag #	Size	Au(ppb)	Ag	AI %	As	Ва	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	Р	Pb	Sb	Sn	Sr	Ti %	U	. V	W	Y	Zn
1	A-L-008	-32	<5	<0.2	0.52	<5	30	<5	0.21	<1	4	8	5	1.03	<10	0.18	370	<1	0.02	7	370	4	<5	<20	11	0.03	<10	12	<10	1	24
2	A-L-010	-32	<5	<0.2	0.78	<5	35	<5	0.11	<1	9	18	11	1.57	<10	0.41	222	<1	0.02	13	180	8	. <5	<20	6	0.06	<10	21	<10	<1	37
3	A-L-011		<5	<0.2	1.01	<5	45	<5	0.17	<1	10	17	13	1.75	<10	0.40	251	<1	0.02	16	400	12	<5	<20	7	0.06	<10	19	<10	2	49
4	A-L-013		<5	<0.2	2.41	<5	180	15	0.50	<1	23	49	27	4.48	<10	0.69	735	<1	0.04	34	600	22	<5	<20	37	0.22	<10	59	<10	2	74
5	A-L-016		<5			<5	170	10	0.48	<1	13	36	21	2.61	<10	0.72	253	<1	0.04	21	590	16	<5	<20	32	0.19	<10	40	<10	2	54
6	A-L-021		<5	<0.2	1.42	<5	110	5	0.46	<1	12	32	17	2.03	<10	0.54	167	<1	0.03	. 19	640	10	<5	<20	31	0.15		29	<10	3	31
7	A-L-023		<5	· <0.2	2.57	<5	180	10	0.75	<1	21	58	45	3.87	<10	1.11	304	<1	0.07	35	710	18	<5	<20	57	0.29	. <10	55	<10	<1	68
8	A-L-024	-32	<5	<0.2	1.33	<5	85	5	0.15	<1	17	64	17	2.05	<10	0.65	443	<1	0.02	43	300	10	<5	<20	14	0.14	<10	33	<10	4	44
9	A-L-027		<5	<0.2	1.04	<5	80	5	0.32	<1	13	30	10	1.62	<10	0.49	468	<1	0.02	26	280	10	<5	<20	30	0.13	<10	25	<10	2	48
10	A-L-053		<5	<0.2	1.44	<5	75	<5	0.87	<1	15	40	29	2.70	<10	0.97	278	<1	0.07	56	1120	10	5	<20	75	0.14	<10	37	<10	2	45
11	A-L-061		<5	<0.2	1.38	<5	80	10	0.80	<1	13	90	20	2.04	<10	0.54	492	<1	0.04	41	370	18	<5	<20	56	0.10	<10	26	<10	3	61
12	A-L-082		<5	<0.2	0.97	<5	80	10	0.26	<1	9	35	19	1.97	<10	0.38	230	<1	0.03	16	370	12	<5	<20	23	0.09	<10	25	<10	2	46
13	A-S-028	-60	<5	<0.2	3.49	5	110	10	0.28	<1	14	43	31	3.33	<10	0.54	278	<1	0.02	26	620	28	<5	<20	31	0.15	<10	42	<10	2	49
14	A-S-040		<5	<0.2	3.45	5	180	20	0.14	<1	18	44	32	4.85	<10	0.87	318	<1	0.03	22	510	24	<5	<20	10	0.25	<10	52	<10	2	65
	A-S-043		<5	<0.2	3.88	10	215	<5	0.34	<1	27	60	62	4.29	<u>60</u>	0.80	896	<1	0.02	43	<u>1510</u>	24	<5	<20	120	0.20		77	<10	27	100
	A-S-056		<5	<0.2	1.49	<5	100	10	0.79	<1	18	46	20	2.90	<10	1.02	347	<1	0.06	49	940	12	<5	<20	67	0.16	<10	43	<10	<1	56
11 17	A-S-057	-60	<5	<0.2	1.79	<5	80	5	1.19	2	18	34	31	3.06	<10	0.54	581	<1	0.05	24	720	422	<5	<20	102	0.12	<10	42	<10	3	1361
۴ 18	A-S-069		<5	<0.2	1.76	<5	85	15	0.12	<1	17	37	14	3.63	<10	0.27	473	<1	0.02	16	400	40	<5	<20	14	0.15	<10	37	<10	<1	117

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

Phone: 604-573-5700 Fax : 604-573-4557 ICP CERTIFICATE OF ANALYSIS AK 98-519

RENAISSANCE GEOSCIENCE SERVICES 879 McQueen Drive KAMLOOPS, BC V2B 7X8

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ATTENTION: LEO LINDINGER

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No. of samples received: 13 Sample type: Rock PROJECT #: 029 SHIPMENT #: 98-01 Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

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Et#	. Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Мо	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	<u>v</u> _	W	Y	Zn
1	A-R-001	5	<0.2	6.22	15	25	<5	4.83	<1	12	57	36	1.27	<10	0.16	68	<1	0.37	30	750	28	5	<20	411	0.10	<10	14	<10	4	10
2	A-R-003	5	<0.2	8.50	25	30	10	6.60	<1	9	87	28	0.99	<10	0.09	83	<1	0.16	31	510	32	<5	<20	621	0.07	<10	11	<10	1	7
3	A-R-004	5	0.2	0.27	<5	20	<5	0.11	<1	4	89	57	1.27	<10	0.02	37	4	0.06	4	50	8	<5	<20	9	<0.01	<10	1.	<10	<1	3
4	A-R-006	5	<0.2	3.04	<5	75	<5	2.08	<1	34	159	169	3.82	<10	0.90	133	5	0.38	86	2800	16	<5	<20	57	0.14	<10	101	<10	4	49
5	A-R-022	5	<0.2	2.30	<5	85	10	0.64	<1	29	137	185	7.68	<10	1.35	4005	<1	0.03	56	1350	8	<5	<20	5	0.37	<10	130	<10	<1	118
6	A-R-029	10	0.4	3.30	<5	50	5	3.50	<1	26	81	64	4.47	<10	0.28	335	4	0.18	33	7660	16	<5	<20	734	0.04	<10	13	<10	4	34
7	A-R-052	5	<0.2	0.85	<5	35	<5	0.92	12	113	200	2326	8.39	<10	0.16	133	11	0.10	82	2140	52	<5	<20	14	0.19	<10	240	<10	<1	3654
8	A-R-066	5	0.4	0.38	<5	30	<5	0.60	2	38	90	260	3.51	<10	0.10	193	35	0.08	47	960	350	<5	<20	62	0.03	<10	17	<10	<1	1029
9	A-R-068	5	<0.2	7.89	25	10	<5	6.79	<1	12	46	50	1.85	<10	0.04	121	4	0.22	20	3050	38	<5	<20	483	0.09	<10	8	<10	14	21
10	A-R-075	5	<0.2	4.25	<5	35	<5	2.75	<1	111	84	215	7.08	<10	0.40	229	4	0.21	54	730	14	<5	<20	325	0.15	<10	.31	<10	9	28
11	A-R-076	5	1.0	1.19	<5	25	40	0.26	65	21	145	137	5.95	<10	0.56	371	<1	0.12	45	240	4196	<5	<20	17	0.13	<10	38	<10	<1 :	>10000
12	A-R-081	5	<0.2	7.06	10	30	10	4.10	<1	21	110	48	4.10	<10	1.33	370	4	0.51	43	1270	38	<5	<20	514	0.11	<10	89	<10	<1	158
13	A-R-085	5	<0.2	3.29	5	20	<5	2.01	<1	39	114	248	7.07	<10	0.12	88	8	0.34	49	300	16	<5	<20	226	0.06	<10	7	<10	<1	61
OC D	ATA:																													
Resp																														
	A-R-001	5	<0.2	6.44	20	20	<5	4.91	<1	12	62	40	1.30	<10	0.15	72	<1	0.38	32	800	30	10	<20	423	0.09	<10	14	<10	3	12
Repe		•					-																							
-	A-R-001	5	<0.2	6.08	15	25	<5	4.70	<1	11	54	37	1.25	<10	0.15	79	<1	0.36	30	760	32	<5	<20	405	0.09	<10	13	<10	3	13
Stand		-	0.2				•		-	•••																				
GEO		125	1.4	1.78	70	160	<5	1.74	<1	19	61	81	3.99	<10	0.95	686	<1	0.03	22	630	24	<5	<20	64	0.11	<10	76	<10	3	74
OLU.		120	1.4		10		-0	1.74			•••	•••	0.00				•					•								

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