

DEC 22 1997

Gold Commissioner's Office
VANCOUVER, B.C.

REPORT ON DIAMOND DRILLING

MUNRO LAKE PROPERTY, SUMMERLAND AREA, B.C.

ROSE & SUE CLAIM GROUPS

OSOYOOS & SIMILKAMEEN MINING DIVISIONS

NTS: 82E/12, 13W & 92H9E, 16E

LATITUDE 49 DEGREES 44 MINUTES NORTH

LONGITUDE 119 DEGREES 59 MINUTES WEST

FOR

ALMADEN RESOURCES CORP.

COVERING FIELD WORK

FROM

SEPTEMBER 12 TO OCTOBER 27, 1997

BY

H.L.King, M.A., P.Geo.

December 22, 1997

GEOLOGICAL SURVEY BRANCH

ASSESSMENT REPORT

25,298

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1.0 SUMMARY

A diamond drilling program totalling 2042m in 5 holes was carried out during September and October, 1997 on the Munro Lake Property. The property is located in the Munro Lake area, 18 km west-southwest of Peachland, B.C. and consists of 104 contiguous claims totalling 208 units.

The program was funded by Almaden Resources who has a 100% interest in the property.

The objective of the drill program was to test the western portion of a large 4 Km-long induced polarization chargeability anomaly. The two eastern most diamond drill holes, M-97-1 and M-97-2, intersected a weakly mineralized porphyry system. The mineralization is confined to quartz-pyrite vein systems hosted in a medium to coarse-grained granodiorite. The three most westerly drill-holes intersected quartz-pyrite veining hosted in a medium to coarse grained granodiorite with only rare veins containing minor chalcopyrite and/or molybdenite.

Hydrothermal alteration is generally confined to vein margins where propylitic alteration is characterized by chlorite-sericite selvages along quartz-pyrite +/- chalcopyrite veining. Potassic alteration is most noticeable as potash feldspars associated with late stage quartz veins that carry molybdenite mineralization.

The strongest anomalous copper-molybdenum-silver mineralization was intersected in the 2 eastern most holes drilled, M-97-1 and M-97-2, but values were not of economic interest.

The current drilling program and the 1996 drilling program have partially defined a large, low-grade porphyry silver-copper-molybdenum system that extends in an east-west direction over a distance of at least 2.5 km.

2.0 INTRODUCTION

The following report summarizes the results of a diamond drilling program carried out during September and October 1997, on the Munro Lake property held by Almaden Resources Corp. of Vancouver. The drill program was managed by H.L.King, P.Geo.

3.0 LOCATION AND ACCESS

The Munro Lake property is located in the Southern Okanagan region of British Columbia about 40 kilometers north-northwest of Penticton and 18 kilometers west-southwest of Peachland on the west side of Okanagan Lake (see Figure 1).

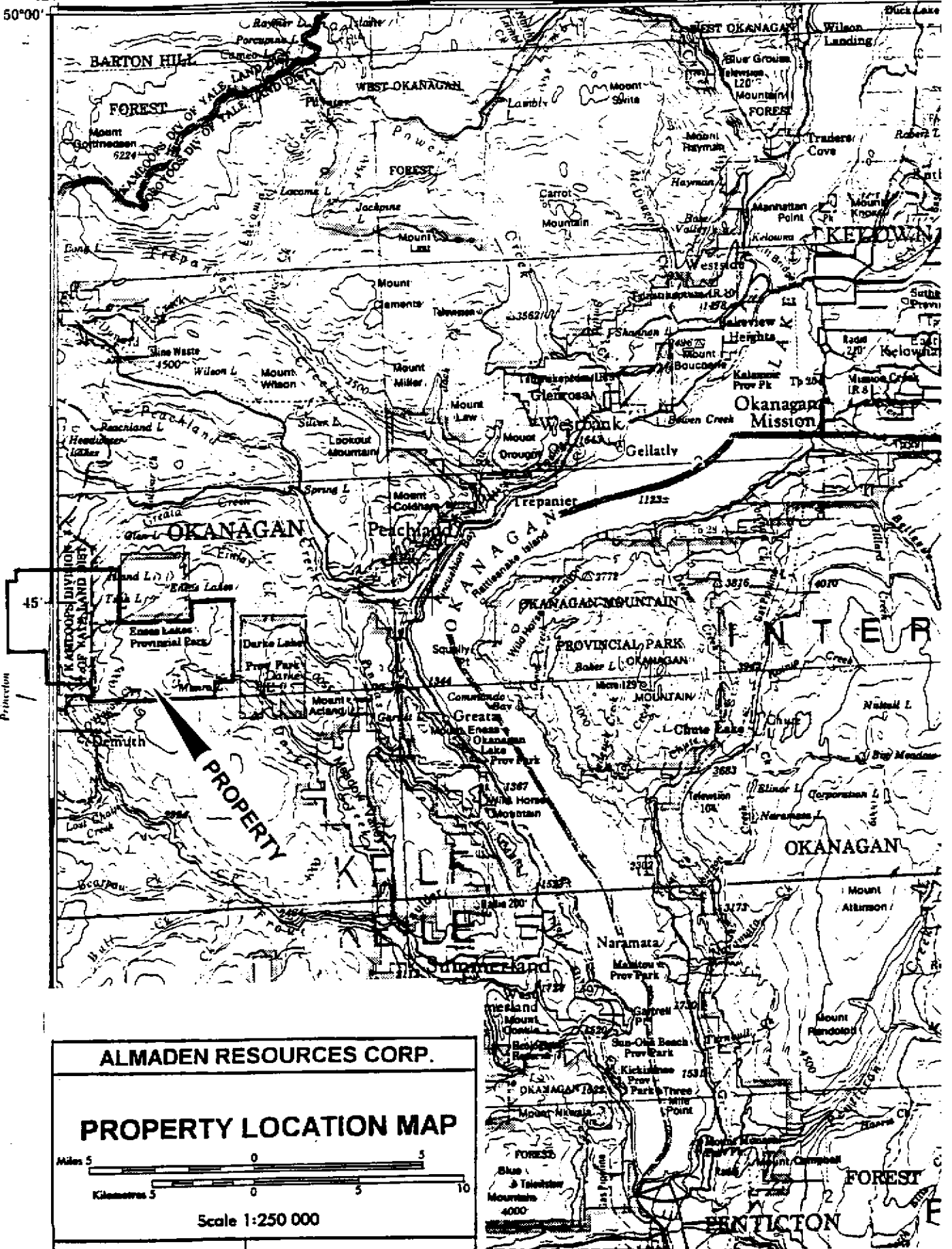
The NTS location is at the intersection of 4 NTS sheets; 82E/12, 13W; 92 H/9, 16E and the centre of the property is at latitude 49 44' N and longitude 119 59' W.

Access to the property can be gained by way of Peachland or Summerland. The best access is via Highway 97 to Peachland and then

120°00' 50°00'

45'

30'



southwest on the Brenda Mine Road for 11 km to Headwaters Road. The Headwaters Road leads west for about 8.5 km to Kathleen Main Road which leads southwest for 7.5 km to Deer Creek Road. The property can be accessed at various points along the Deer Creek Road.

An alternate route is via Summerland along the old Summerland to Princeton Highway, westerly along the Trout Creek Valley for a distance of about 27 km. to the junction of the Munro Lake Road. The junction is about 300m west of a bridge that crosses Trout Creek. The Munro Lake Road leads northerly along O'Hagen Creek for a distance of 10.9 km. At a point near the power line, just past the Km 33 marker, there is an intersection with the main haul road. Access to the east part of the property can be gained by turning right (east) onto the main haul road.

4.0 PROPERTY AND OWNERSHIP

The Rose claim group and Sue claim group are owned by Almaden Resources Corp. The Rose group and Sue claim group consist of 104 contiguous claims totalling 208 units located in the Osoyoos and Similkameen Mining Division (see Figure 2). The NTS Location is 82E/12, 13W and 92H 9, 16E. The center of the property is at Latitude 49°44' North and Longitude 119° to 59' West. The details of the claim groups are summarized in Table 1.

TABLE 1: SUMMARY OF CLAIM INFORMATION

| CLAIM | TENURE # | UNITS | EXPIRY DATE |
|--------|----------|-------|--------------------|
| Rose | 24658 | 20 | September 30, 2007 |
| Dale | 2346(11) | 14 | November 5, 2007 |
| Lake | 2347(11) | 15 | November 5, 2007 |
| Rose 2 | 2357(11) | 15 | November 5, 2007 |
| Rose 3 | 2358(11) | 15 | November 15, 2007 |
| Rose 4 | 246755 | 1 | November 3, 2007 |
| Rose 5 | 246756 | 1 | November 3, 2007 |
| Rose 6 | 246757 | 1 | November 3, 2007 |
| Rose 7 | 247758 | 1 | November 3, 2007 |
| Rose 8 | 246759 | 1 | November 3, 2007 |
| Rose 9 | 246760 | 1 | November 3, 2007 |
| Sue 1 | 332562 | 9 | November 4, 2007 |
| Sue 2 | 332563 | 15 | November 4, 2007 |
| Sue 3 | 339675 | 9 | August 24, 2007 |
| Sue 4 | 339676 | 1 | August 24, 2007 |
| Sue 5 | 339677 | 1 | August 25, 2007 |
| Sue 6 | 339678 | 1 | August 25, 2007 |
| Sue 7 | 339679 | 1 | August 25, 2007 |
| Sue 8 | 339680 | 1 | August 25, 2007 |
| Sue 9 | 339681 | 1 | August 25, 2007 |

| CLAIM | TENURE # | UNITS | EXPIRY DATE |
|--------|----------|-------|--------------------|
| Sue 10 | 339682 | 1 | August 25, 2007 |
| Sue 11 | 339683 | 1 | August 25, 2007 |
| Su 12 | 359095 | 1 | September 12, 2007 |
| Su 13 | 359096 | 1 | September 12, 2007 |
| Su 14 | 359115 | 1 | September 14, 2007 |
| Su 15 | 359116 | 1 | September 14, 2007 |
| Su 16 | 359117 | 1 | September 14, 2007 |
| Su 17 | 359118 | 1 | September 14, 2007 |
| Su 18 | 359119 | 1 | September 14, 2007 |
| Su 19 | 359120 | 1 | September 14, 2007 |
| Su 20 | 359121 | 1 | September 15, 2007 |
| Su 21 | 359122 | 1 | September 15, 2007 |
| Su 22 | 359123 | 1 | September 15, 2007 |
| Su 23 | 359124 | 1 | September 15, 2007 |
| Su 24 | 359097 | 1 | September 12, 2007 |
| Su 25 | 359098 | 1 | September 12, 2007 |
| Su 26 | 359099 | 1 | September 13, 2007 |
| Su 27 | 359100 | 1 | September 13, 2007 |
| Su 28 | 359101 | 1 | September 13, 2007 |
| Su 29 | 359102 | 1 | September 13, 2007 |
| Su 30 | 359125 | 1 | September 15, 2007 |
| Su 31 | 359126 | 1 | September 15, 2007 |
| Su 32 | 359127 | 1 | September 15, 2007 |
| Su 33 | 359128 | 1 | September 15, 2007 |
| Su 34 | 359129 | 1 | September 15, 2007 |
| Su 35 | 359130 | 1 | September 15, 2007 |
| Su 36 | 359131 | 1 | September 15, 2007 |
| Su 37 | 359132 | 1 | September 15, 2007 |
| Su 38 | 359133 | 1 | September 15, 2007 |
| Su 39 | 359134 | 1 | September 15, 2007 |
| Su 40 | 359107 | 1 | September 14, 2007 |
| Su 41 | 359108 | 1 | September 14, 2007 |
| Su 42 | 359108 | 1 | September 14, 2007 |
| Su 43 | 359110 | 1 | September 14, 2007 |
| Su 44 | 359111 | 1 | September 14, 2007 |
| Su 45 | 359112 | 1 | September 14, 2007 |
| Su 46 | 359103 | 1 | September 12, 2007 |
| Su 47 | 359104 | 1 | September 12, 2007 |
| Su 48 | 359105 | 1 | September 12, 2007 |
| Su 49 | 359106 | 1 | September 12, 2007 |
| Su 50 | 359113 | 1 | September 14, 2007 |
| Su 51 | 359114 | 1 | September 14, 2007 |
| Chap 1 | 351342 | 1 | September 17, 2007 |
| Chap 2 | 351343 | 1 | September 17, 2007 |
| Chap 3 | 351344 | 1 | September 17, 2007 |

| CLAIM | TENURE # | UNITS | EXPIRY DATE |
|---------|----------|-------|--------------------|
| Chap 4 | 351345 | 1 | September 17, 2007 |
| Chap 5 | 351346 | 1 | September 17, 2007 |
| Chap 6 | 351347 | 1 | September 17, 2007 |
| Chap 7 | 351348 | 1 | September 17, 2007 |
| Chap 8 | 351349 | 1 | September 18, 2007 |
| Chap 9 | 351350 | 1 | September 18, 2007 |
| Chap 10 | 351351 | 1 | September 18, 2007 |
| Chap 11 | 351352 | 1 | September 18, 2007 |
| Chap 12 | 351353 | 1 | September 18, 2007 |
| Chap 13 | 351354 | 1 | September 18, 2007 |
| Chap 14 | 351355 | 1 | September 18, 2007 |
| Chap 19 | 351360 | 1 | September 18, 2007 |
| Chap 20 | 351361 | 1 | September 18, 2007 |
| Chap 21 | 351362 | 1 | September 18, 2007 |
| Chap 22 | 351363 | 1 | September 18, 2007 |
| Chap 23 | 351364 | 1 | September 18, 2007 |
| Chap 24 | 351365 | 1 | September 18, 2007 |
| Chap 25 | 351833 | 1 | October 1, 1999 |
| Chap 26 | 351834 | 1 | October 1, 1999 |
| Chap 27 | 351835 | 1 | October 1, 1999 |
| Chap 28 | 351836 | 1 | October 1, 1999 |
| Chap 29 | 351837 | 1 | October 1, 1999 |
| Chap 30 | 351838 | 1 | October 1, 1999 |
| Chap 31 | 351839 | 1 | October 2, 1999 |
| Chap 32 | 351840 | 1 | October 2, 1999 |
| Chap 33 | 351841 | 1 | October 2, 1999 |
| Chap 34 | 351842 | 1 | October 2, 1999 |
| Chap 35 | 351843 | 1 | October 2, 1999 |
| Chap 36 | 351844 | 1 | October 2, 1999 |
| Chap 60 | 351869 | 1 | October 3, 1999 |
| Chap 61 | 351870 | 1 | October 4, 1999 |
| Chap 62 | 351871 | 1 | October 4, 1999 |
| Chap 63 | 351872 | 1 | October 4, 1999 |
| Chap 64 | 351873 | 1 | October 4, 1999 |
| Chap 65 | 351874 | 1 | October 4, 1999 |
| Chap 66 | 351875 | 1 | October 4, 1999 |
| Chap 67 | 351876 | 1 | October 4, 1999 |
| Chap 68 | 3518877 | 1 | October 4, 1999 |

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CLAIM MAP

ROSE AND SUE CLAIM GROUPS

NTS: 82E/12, 13W, 92H/9, 16E

DATE: NOV. 1997

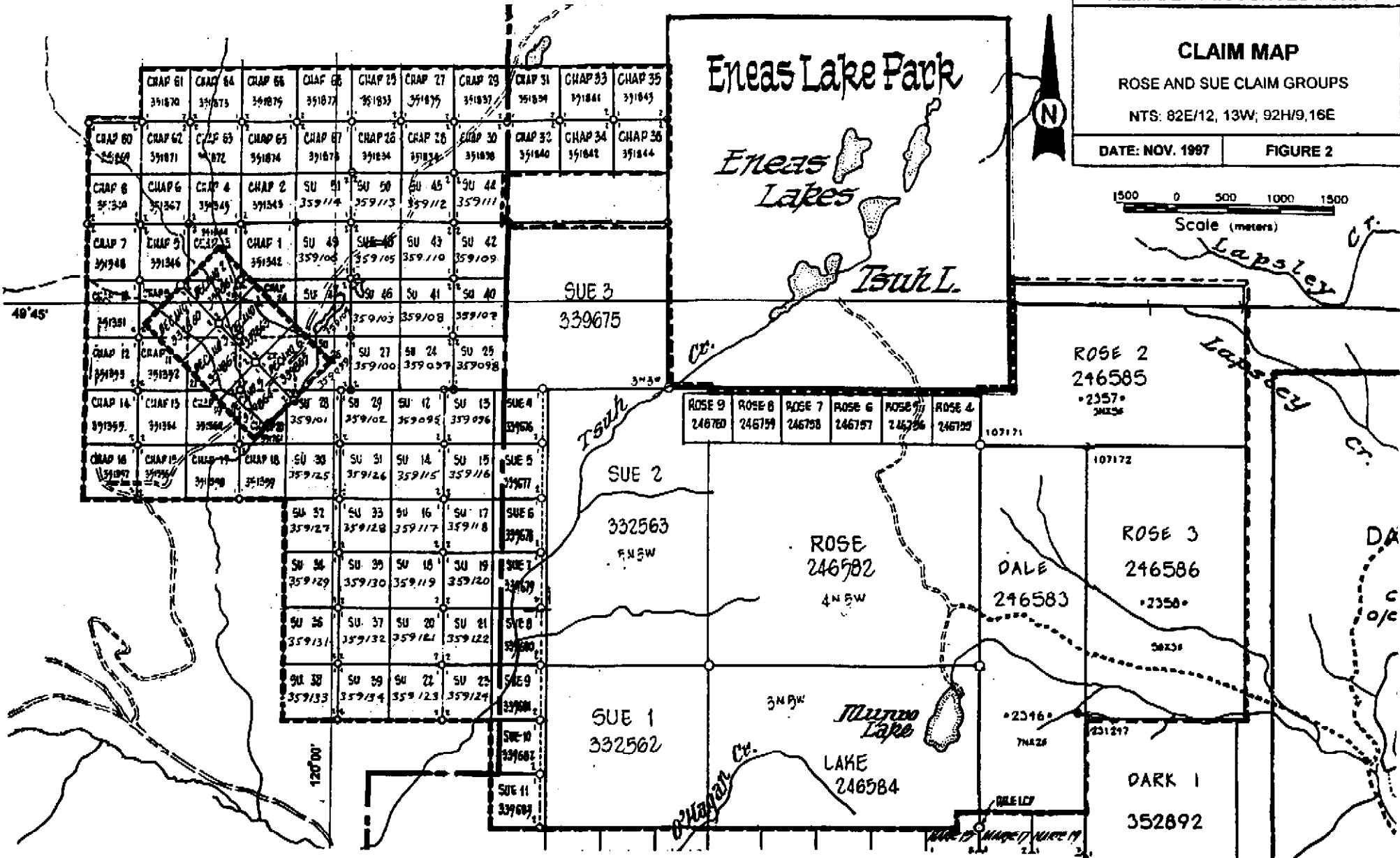
FIGURE 2



Eneas Lake Park

Eneas Lakes

Tsuh L.



49°45'

120°00'

O'Hagan Ct.

Lapsley Ct.

Lapsley Ct.

Dale Ct.

REEL 17

PAGE 17 PAGE 17

5.0 GEOLOGICAL SETTING

A geological map by D.J.Tempelman-Kluit (Figure 3) outlines the regional geology.

The Rose property is underlain by an intrusive mass of the Valhalla Plutonic Group of Upper Cretaceous Age (or possibly Jurassic).

This intrusive mass has been described as a "constriction zone" between two Jurassic Nelson Complex Batholiths; the Penask Batholith to the north and the Okanagan Batholith to the south. The Valhalla rocks are granodiorites to quartz monzonites in composition.

In the immediate area of the 1996 drilling and the current drilling, a medium to coarse-grained, relatively massive granodiorite is the dominant rock type. Locally, the granodiorite has a porphyritic texture due to the presence of very coarse-grained potash feldspar crystals which are inconspicuous except when the cleavage faces of the large crystals reflect sunlight.

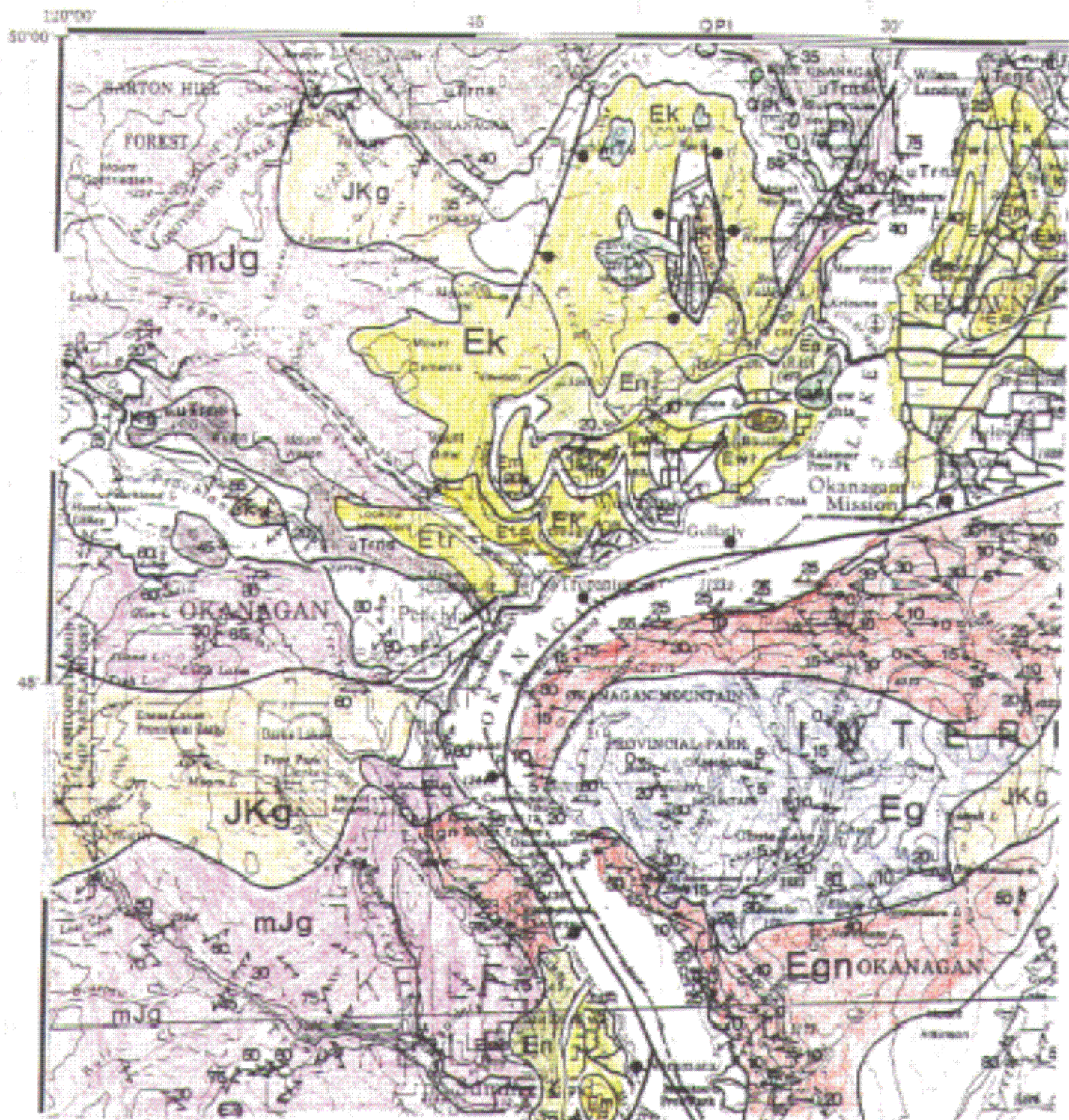
The granodiorite is cut by quartz feldspar porphyry dikes that trend east-northeast. The dikes are exposed on line 3172 E (old grid line 36) and 94 N, in the area of old trenches. Quartz-feldspar porphyry dikes have also been intersected in holes M-96-2 and M-96-7 and in the current drilling, a quartz-feldspar porphyry dike was intersected in hole M-97-5. A swarm of eleven andesite porphyry dikes was intersected in M-97-2. Narrow aplite veins and dikes cut the granodiorite in a number of drill holes..

6.0 ALTERATION

Zones within the granodiorite have been subjected to weak, pervasive potassic alteration. Igneous textures are generally preserved in the granodiorite and in quartz-feldspar porphyry dikes. The country rock granodiorite is composed of igneous quartz (20-25 %), K-feldspar, plagioclase and biotite. The granodiorite is commonly sheared and alteration is structurally controlled. Hydrothermal minerals are dominantly veinlet controlled in their distribution, however both pervasive and selective alteration was observed.

Two alteration assemblages were identified. Sericite-chlorite alteration is associated with early stage quartz+pyrite +/- chalcopyrite +/- sphalerite +/- hematite veining. Sericite and chlorite-rich selvages form along the veins replacing granodioritic textures over widths of up to 5 cm from vein margins. Where sections of core are highly sheared and fractured, original granitic textures have been replaced by primarily sericite, chlorite and quartz.

Potassic alteration consisting of K-feldspar, biotite, muscovite and anhydrite is associated with late stage quartz+Kspar +/- molybdenite +/- hematite veining and occurs dominantly in the selvages of these veins. Potassic alteration associated with veining was only noted in holes M-97-1 and M-97-2, the two eastern-most holes drilled during the 1997 program.



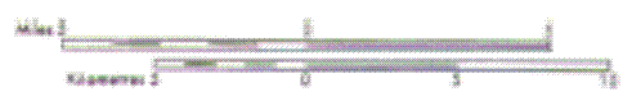
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REGIONAL GEOLOGY

(D.J. Tempelman-Kluit 1989)

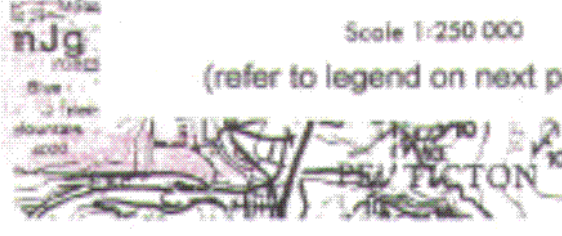
DATE: NOV. 1997

FIGURE 3



Scale 1:250 000

(refer to legend on next page)



PLEISTOCENE

QPL

Lambly Creek Basalt: Rusty weathering black basalt, with hornblende, biotite and pyroxene phenocrysts to 5 mm in an aphanitic black matrix; occurs as columnar jointed flows, a few meters thick above Mesozoic strata, K/Ar age of 0.762 Ma determined by Church, 1981.

MIOCENE

mTv

Plateau Basalt: Andesite and basalt with augite and hornblende phenocrysts to 5 mm in a black aphanitic matrix; forms massive flows to 20 m thick; locally underlain by poorly sorted boulder conglomerate and pebbly sandstone; K/Ar cooling ages of 2.9 and 14.9 Ma; includes Daves Creek Basalt (14.9 Ma) and Carrot Mountain alkali basalt (11.8 Ma).

EOCENE

Ew1

White Lake Formation: Massive to thick bedded volcanic breccia and pyroclastic rocks with clasts of Trepanier Rhyolite and Kitley Lake and Yellow Lake Formations; includes interbedded medium and thin beds of brown sandstone and clayey siltstone, minor carbonaceous seams; includes minor trachyte and andesite. Palynomorphs from Powers Creek indicate a Middle Eocene or older age.

Em

Marama Formation: Medium brownish grey, flow banded dacite with subhedral plagioclase, hornblende and biotite phenocrysts to 5 mm in an aphanitic ground; forms the top of Black Knight Mountain, Mount Boucherie, Aeneas Butte, Mount Law.

Ea

Marama Formation- Nimpit Lake Member: Recessive, reddish weathering, amygdaloidal, trachyandesite with minor intercalated pyroclastic deposits; includes undifferentiated intrusive equivalents.

Ek

Kitley Lake Formation: Massive, yellowish to buff, trachyte to trachyandesite; plagioclase and biotite glomerophenocrysts to 1 cm (10% of the rock) in a finely crystalline groundmass; includes ash flow tuff and minor mudstone; includes undifferentiated intrusive equivalents. Church determined K/Ar ages between 52.9 (biotite) and 44.2 Ma (whole rocks).

Eyl

Yellow Lake Formation: Massive to thick, tabular flows of buff to light tan pyroxene-rich, mafic phonolite locally with rhomb anorthoclase phenocrysts and primary analcite, abundant zeolite fills cracks and amygdalae; includes undifferentiated intrusive equivalents.

Etr

Trepanier Rhyolite: White and locally pink, greenish or light grey, flow banded rhyolite with subhedral quartz, hornblende and biotite phenocrysts to 3 mm in an aphanitic matrix. K/Ar ages of 47.7 Ma and 46 ± 2 Ma were determined by Church (1981) west of Trepanier.

Esb

Springbrook Formation: Poorly sorted, massive to thick bedded, immature, coarse boulder and pebble conglomerate. Clasts to 50 cm are rounded, but of low sphericity and are locally derived (chert, greenstone, granite, and other pre-Eocene rocks with fewer Marron Group clasts, mainly Yellow Lake and Kitley Formations). Near Rock Creek this unit consists of white to light grey, medium bedded, feldspathic sandstone, siltstone and shale with coaly partings, named the Kettle River Formation.

Ec

Coryell Syenite: Alkalic to calc-alkalic, high level, pink and buff syenite and quartz monzonite and trachytic pink feldspar porphyry dykes; plutonic equivalent of the Marron Group especially the Kitley Lake Formation; gradational to pulaskite and to Shingle Creek Porphyry; probably includes JKg undifferentiated in East half of map area; poorly dated.

Eg

Hornblende granodiorite: Massive, resistant, grey weathering, coarse grained, equigranular mesocratic with euhedral fresh black hornblende crystals; locally weakly foliated; age poorly constrained.

Egn

"Okanagan Gneiss": Massive, medium grey weathering, resistant hornblende biotite granodiorite orthogneiss; strongly foliated; grades to mylonitic gneiss, aylonite and blastomylonite; minor amphibolite and paragneiss- minor schist; minor pegmatite and apatite; strongly chloritized along Okanagan Fault; grades eastward (and up the structural succession) to JKg, mJg and Pn units of which it is presumed the sheared equivalent; probably also includes sheared equivalents of the Anarchist Group; presumed sheared and thermally overprinted during the Eocene; Egn1- quartz chlorite microbreccia and related altered rocks close to the Okanagan Fault.

CRETACEOUS AND/OR JURASSIC

JKg

Okanagan Batholith: Massive, light grey weathering, medium to coarse grained, equigranular to porphyritic, unfoliated to weakly foliated, fresh biotite granodiorite and granite; includes undifferentiated granodiorite of the Nelson suite; age poorly constrained.

MIDDLE JURASSIC

mJg



















Nelson Plutonic Rocks: Massive, generally moderately foliated, medium grey weathering, medium- to coarse-grained, equigranular, hornblende biotite granodiorite, quartz diorite and granite; includes undifferentiated biotite granite of the Valhalla suite; age poorly constrained.

UPPER TRIASSIC AND/OR LOWER JURASSIC

Etr

Rusty weathering, black pyritic slate, phyllite and argillite, locally silicified or "cherty"; minor quartzite; minor interbedded argillaceous limestone; includes undifferentiated greenstone lenses.

MAP SYMBOLS

-  Strike and dip of bedding.
-  Strike and dip of foliation.
-  Trend and plunge of lineation and minor folds.
-  Outcrop boundary.
-  Probable stratigraphic contact, location approximate.
-  Geological contact relations unknown, possibly faulted.
-  Inferred fault, age and displacement unknown.
-  Inferred normal fault age unknown, circle on downthrown side.
-  Inferred Eocene normal fault, circle on downthrown side.
-  Slide-inferred fault in metamorphosed rocks, roughly parallel to foliation.
-  Mineral occurrence with commonly used name.
-  Locality with radiometric age determination, K-bi, wr, hb, ser, ms- potassium argon model age on biotite, whole rock, hornblende, sericite and muscovite respectively; U-zirc low 80 up 1500-Uranium lead age on zircon with upper and lower intercept ages as noted; F-ap, sp- fission track ages on apatite and sphene respectively; Sr-bi, fsp, ms, wr- Rubidium strontium ages on biotite, feldspar, muscovite and whole rock respectively.
-  Fossil locality- fossil type as follows:
-  Conodonts,
-  Ammonites,
-  Brachiopods,
-  Plant macrofossils,
-  Other.

Geology compiled 1985, 1986 by Dirk Tempelman-Kluit, from sources referenced with new field work during 1983, 1984. I acknowledge the excellent help in compilation by J. Rhodes, A. Jung, R.A. Arnold, E.A. Fuller, G. Lynch. By his continuing interest in the geology of this region, Rick Myers of B.C. Geological Survey at Kamloops, encouraged me to complete this work.

6.1 MINERALOGY

The host rock granodiorite intersected in the drilling is composed of approximately 25% igneous quartz with up to 5% hydrothermal quartz occurring in veins and veinlets. At least three episodes of quartz veining have been recognized. Early stage quartz-pyrite +/- chalcopyrite veins are dominant and are characterized by pronounced sericite-chlorite selvages up to 5 cm wide. This veining is cut by late stage quartz +/- K spar + pyrite +/- molybdenite +/- hematite veinlets. Both vein sets are crosscut by a third set of late, sparse, quartz + pyrite, +/- molybdenite veinlets present in holes M-97-1 and M-97-2.

This description of cutting relationships is in contrast to that observed in the 1996 core from drilling further to the east where quartz + K feldspar + molybdenite veins were interpreted as early stage and cut by quartz + pyrite +/- chalcopyrite +/- sphalerite veining with characteristic chlorite-sericite selvages.

7.0 MINERALIZATION

Two types of mineralization have been recognized on the property. Weak, porphyry-type pyrite-chalcopyrite-molybdenite mineralization is exposed in several trenches in the north-central part of the Rose claim. The exposed mineralization is located on the south margin of a large I.P. chargeability anomaly, the target of the 1996 drilling and of the current drilling program.

The 1996 drilling, located on the eastern portion of the large I.P. chargeability anomaly, intersected chalcopyrite, molybdenite and silver values associated with several quartz-pyrite vein systems hosted in medium to coarse-grained granodiorite.

The most significant silver, copper and molybdenum mineralization was intersected in DDH M-96-3. The entire core length of 231.9m (from 18.3 to 250.2m) averaged 5.54 g/t Ag, 0.047% Cu and 0.020% Mo.

The 1997 drilling confirmed a continuation to the west of the quartz-pyrite veining hosted in medium to coarse-grained granodiorite but only weak copper-molybdenum-silver mineralization was intersected in the two eastern-most holes, M-97-1 and M-97-2.

The three western-most holes, M-97-3, M-97-4, and M-97-5, intersected moderately strong quartz-pyrite veining but only traces of chalcopyrite and minor molybdenite mineralization.

A second type of mineralization found in the northeastern part of the property, occurs as quartz veining in silicified shear zones. Sampling of a showing on the Rose 2 claim by Giroux in 1988 returned values of .132 oz/ton gold and 23.77 oz/ton silver over the 15 cm width of the vein.

8.0 HISTORY AND PREVIOUS WORK

The first documented exploration work on the Rose claim group was carried out in 1966 after the discovery of the Brenda molybdenum-copper mine located about 17 km to the north. A detailed review and summary of previous

work is found in a report by J.H.Montgomery and G.H. Giroux, Montgomery Consultants, Jan.1996.

Low grade copper-molybdenum mineralization was first discovered by Lakeland Base Metals Ltd. in 1966. An initial program of soil sampling, trenching and 2000 feet of percussion drilling by BrenMac Mines Ltd., Brenda Mines Ltd., and Lakeland Base Metals was completed in 1966. During 1966 and 1967, exploration was carried out by Koporok Mines Ltd. on the Cache showing located on the eastern portion of the Rose claim group and on several other quartz veins with pyrite, tetrahedrite and galena.

In 1973, the area underlain by the Rose claims was restaked by Canadian Occidental Petroleum Ltd. based on results of a regional stream sediment survey and in 1974 they carried out geochemical, geological and magnetic surveys. Several copper-molybdenum anomalies were identified and 3 targets tested by diamond drill holes.

In 1976 a regional geochemical program funded by the Federal and Provincial Governments identified anomalous silver values in streams draining the plateau area northwest of Munro Lake. Based on this new information, Canadian Occidental reanalyzed all soil samples and drill core for silver and found excellent correlation between silver anomalies and previously identified copper-molybdenum-zinc anomalies. The highest values obtained were 2.73 oz Ag/ton and 0.003 oz Au/ton over 2.3 feet from 124 to 126.3 feet in drill hole MUN 74-3.

In 1977 a large co-incident Cu-Mo-Zn-Ag anomaly was tested by a 562 ft. diamond drill hole (MUN 77-1) and in 1981 a total of 1300 feet of trenching was carried out to test a large silver-base metal anomaly.

In 1983 the claims lapsed and the Rose claims were staked by Almaden Resources Corp. During 1985 to 1987 Almaden conducted VLF-EM surveys followed by 15 line km of I.P. over the central and northeastern parts of the property. The area of co-incident VLF and Ag-Cu-Zn-Mo soil anomalies was then tested with a program of overburden drilling. In Sept. and Oct. 1987, a program of reverse circulation drilling was carried out to test geochemical and geophysical targets to the north of Munro Lake. This program was continued in 1988 to test a NE-trending structure. The drilling outlined a series of NE-trending, co-incident gold, silver and zinc anomalies in basal till.

During 1994, 1995 and 1996, induced polarization surveys were conducted over portions of the claim area by Delta Geoscience Ltd. A large I.P. anomaly over 4 Km long in an east-west direction and up to 800 m wide was delineated. In July and August of 1996, a 1,779.8 meter drilling program was carried out to test several I.P. chargeability anomalies. All 7 diamond drill holes intersected a weakly mineralized silver-molybdenum-copper porphyry system. The best mineralization was intersected in hole M-96-3 where the entire 231.9 m of core averaged 0.047% Cu, 0.020% Mo, and 5.54 g/t Ag.

9.0 INDUCED POLARIZATION SURVEYS

In 1994, 1995, and in 1996 induced polarization surveys were conducted over the claim area by Delta Geoscience Ltd. (Hendrickson 1995). A large I.P. anomaly with a magnitude of 15 to 20 msec above background was delineated on the northwestern part of the survey grid (see Figure 4). The anomaly extends in an east-west direction over a distance of 4 Km with an average width of about 800 m. Henderickson interpreted the anomaly as representing a large pyritic alteration zone reflecting the top of a large mineralized porphyry system.

10.0 DRILLING PROGRAM AND RESULTS

10.1 GENERAL

A diamond drilling program totalling 2042 meters in 5 holes was carried out in September and October, 1997. The drilling was carried out by Beaupre Diamond Drilling Ltd. of Princeton under the supervision of H.L.King, P. Geo. The drilling was carried out on a 2-shift basis with crews commuting to the property from Princeton. Drilling commenced on Sept.22, 1997 with one drill. A second drill was added on Oct. 5, 1997. The drilling was completed on Oct. 20, 1997. A total of 2042 m was drilled for an average drilling rate of 46.8 m per 24 hr. including moves.

The drill holes were spotted with reference to an existing metric grid. All drill core was logged and most of the core was sawn with a diamond cutting saw and one-half analyzed by multielement ICP methods. All samples were assayed for gold using a fire assay and AA finish of a 30g sample.

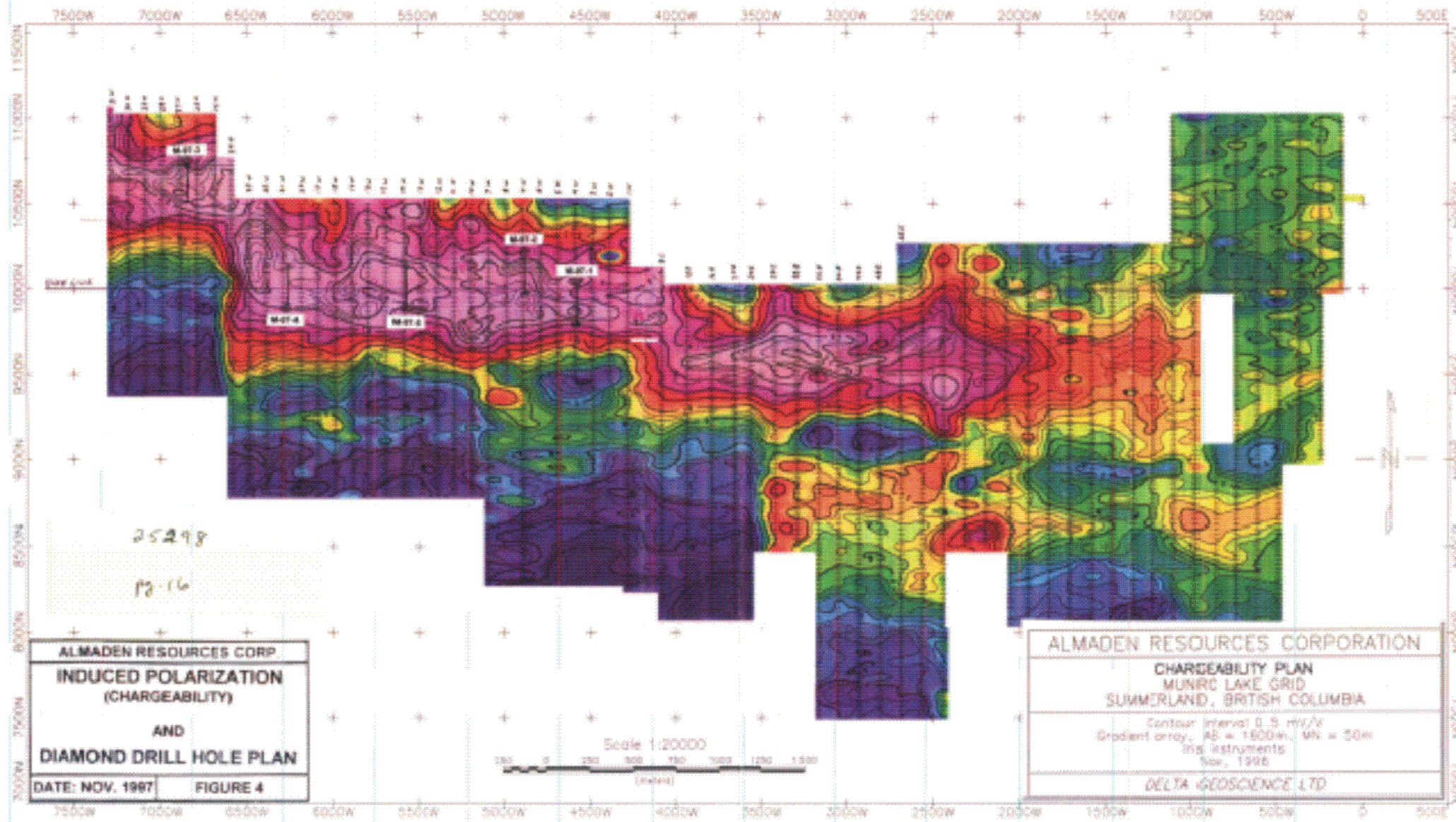
All ICP analyses and assaying was carried out by Chemex Labs. Ltd. in North Vancouver. Certificates of Analyses for all core sampled are shown in Appendix 4. Core logs and sample results are shown in Appendix 2. All core is stored at Summerland Mini Storage, in Summerland, B.C.

TABLE 2: DIAMOND DRILL HOLE INFORMATION

| Hole No | Co-Ordinates | Azimuth | Dip | Length(m) | Started | Completed |
|---------|----------------|------------------|------------------|-----------|----------|-----------|
| M-97-1 | 10,050N 400W | 180 ⁰ | -55 ⁰ | 376.7 | 22/9/97 | 29/9/97 |
| M-97-2 | 10,250N 700W | 180 ⁰ | -55 ⁰ | 425.2 | 1/10/97 | 10/10/97 |
| M-97-3 | 10,770N 2,650W | 180 ⁰ | -60 ⁰ | 432.8 | 5/10/97 | 13/10/97 |
| M-97-4 | 9,900N 2,090W | 0 ⁰ | -55 ⁰ | 390.7 | 13/10/97 | 18/10/97 |
| M-97-5 | 9,900N 1,400W | 0 ⁰ | -55 ⁰ | 416.7 | 15/10/97 | 20/10/97 |

10.2 DRILL RESULTS

The principal objective of the diamond drill program was to test the western portion of a large induced polarization chargeability anomaly. The I.P. anomaly and drill-hole locations are shown in Figure 4.



ALMADEN RESOURCES CORP
**INDUCED POLARIZATION
 (CHARGEABILITY)**
 AND
DIAMOND DRILL HOLE PLAN
 DATE: NOV. 1987 FIGURE 4

Scale 1:20000
 0 250 500 750 1000 1250 1500
 (metres)

ALMADEN RESOURCES CORPORATION
CHARGEABILITY PLAN
 MUNRO LAKE GRID
 SUMMERLAND, BRITISH COLUMBIA
 Contour interval 0.5 mV/V
 Gradient array, AB = 1500m, MN = 50m
 Mfg Instruments
 Nov., 1986
 DELTA GEOSCIENCE LTD

25298
 pg. 16

All drill holes intersected a relatively massive, medium-grained biotite granodiorite hosting 2 main quartz vein systems; an earlier quartz, + pyrite +/- chalcopyrite vein system characterized by distinct chlorite-sericite selvages and a later set of quartz, pyrite +/- molybdenite +/- sphalerite veins. A third, sparse set of quartz+pyrite +/- molybdenite was noted in holes M-97-1 and M-97-2. This may be the latest (youngest) set although relative age relationships are not certain.

The biotite granodiorite is most highly altered to chlorite and sericite in areas of more dense veining and where the rock is more highly fractured and sheared. Pervasive potassic alteration was seen in all holes. Some clay alteration of feldspar was noted, generally adjacent to shearing or fracturing.

The most significant silver, copper and molybdenum mineralization was intersected in D.D.H.s, M-97-1 and M-97-2. No significant gold values were found.

Results from the current drilling program and the 1996 drilling program have partially defined a large, low-grade porphyry silver-copper-molybdenum system that extends in an east-west direction over a distance of 2.5 Km.

10.3 DIAMOND DRILL LOG SUMMARIES

The following are summaries of drill logs for M-97-1 to M-97-5. Please see Figure 5 for drill hole locations.

Hole M-97-1

This hole was drilled to intersect the main chargeability anomaly. The hole was drilled due south at -55 on section 40 West.

The drill-hole encountered moderately altered, medium to coarse-grained biotite granodiorite hosting several vein systems.

Two main types of mineralized quartz veining were intersected; an early stage, pyrite+quartz +/- chalcopyrite veining characterized by distinct chlorite-sericite alteration selvages extending into the wall rock for up to 5 cm; and a later stage, less abundant, Kspar+quartz+pyrite +/- molybdenite +/- chalcopyrite veining.

A third sparse set, noted in the upper 90 meters of the hole, consists of late stage quartz+pyrite +/- molybdenite +/- sphalerite veining.

Minor molybdenite mineralization is most prevalent throughout the hole in the late stage, quartz+pyrite veining and in the Kspar+quartz+pyrite veining. Molybdenite is most frequently noted in veining at low angles to the core axis. Only traces of chalcopyrite is present in both early and later stage veining.

There is a notable increase in both early chlorite+sericite+pyrite+quartz veining and later stage Kspar+quartz+pyrite veining from 240 m to 244.6 m. Associated with this increase in veining is an increase in disseminated pyrite to 10% to 15% within this more highly altered section. Pyrite, mainly within veining, ranges from 2 to 3% throughout the hole but increases to 3% to 5% from 320 m to 376.7 m (end of hole).

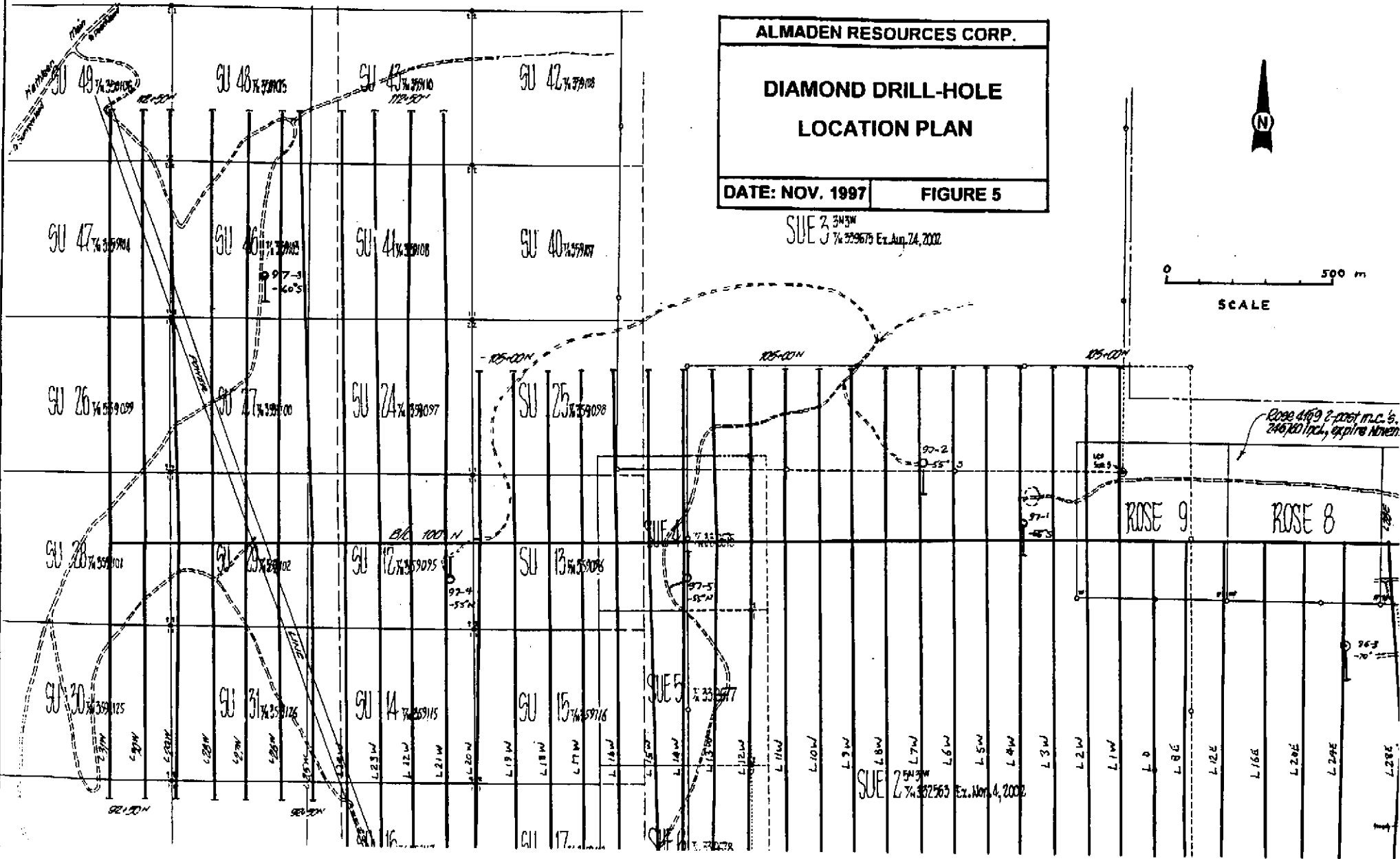
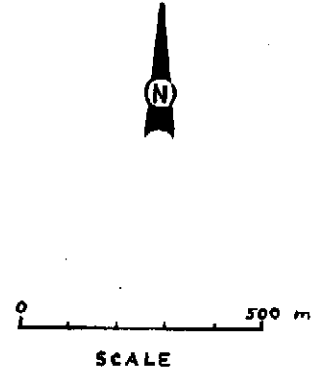
ALMADEN RESOURCES CORP.

DIAMOND DRILL-HOLE LOCATION PLAN

DATE: NOV. 1997

FIGURE 5

SUE 3 ^{343M}
% 359675 Ex. Aug. 24, 2002



Alteration increases adjacent to major faulting and shearing where original granitic textures have been completely destroyed and replaced by pale green sericite, chlorite and quartz.

The core was sampled at 2 m intervals from 86 m to 376.7 m (end of hole).

Anomalous copper values ranging up to 648 ppm over 2 m sample intervals are scattered throughout the hole. Silver values are generally low (less than 0.2g/t) but range up to 5.4 g/t over 2 m sample intervals. The higher silver values generally correlate with elevated copper values. Molybdenum values are generally low, less than 50 ppm, but range up to 641 ppm over sample intervals of 2 m. Anomalous zinc values were found throughout the drill-hole with maximum concentrations of 6310 ppm's over a 2 m sample length.

Hole M-97-2

This hole was drilled to intersect the large chargeability anomaly 300 m to the west of hole M-97-1. The hole was drilled due south at -55 on section 700 West. The drill-hole encountered a thick section of highly compacted glacial till over a core length of 86.8 m (true thickness is estimated at 70 m).

The drill-hole encountered a coarse-grained, potassic and sericitic altered biotite granodiorite containing a number of highly altered sections. Within the more highly altered sections, original granitic textures have been replaced by chlorite, sericite and quartz.

Eleven unmineralized andesite porphyry dikes cutting the granodiorite were intersected throughout the drill-hole. The dikes range in core length from 1 m to 13.7 m and are interpreted to be steeply dipping. Similar mineralized vein systems to those intersected in hole M-97-1 were recognized. There are two main vein systems;

- a) An early stage, prominent pyrite+quartz+chlorite+sericite vein set with vein density of up to 7 veinlets per meter. This vein set is characterized by distinctive chlorite-sericite vein selvages. Strong quartz+pyrite veining with individual veinlets up to 2 cm wide occurs from 324 m to 326.3 m and from 325 m to 425 m. Overall pyrite content within these sections is estimated to range from 3% to 5%.
- b) A late stage quartz+pyrite +/- molybdenite +/- hematite veining from 0.2 cm to 1 cm wide. Minor molybdenite was noted in at least 20 veins from 95.4 m to 116.7 m. A third, less abundant, late stage quartz+pyrite+Kspar+hematite +/- molybdenite vein set is commonly oriented at 20 to 30 to the core axis. Minor molybdenite was noted in veinlets from 124 m to 158.3 m and from 297 m to 338 m. Pyrite content throughout the hole is estimated to average 2%.

The core was sampled at generally 2 m intervals from 94 m to 220 m, from 229 m to 242 m; from 266 m to 329 m, and from 355 m to 425.2 m. A few 1 m sample lengths were chosen where there was an increase in vein density or pyrite content over short intervals.

Minor copper values ranging up to 256 ppm occur over a core length of 52 m, from 94 m to 146 m. A few silver values up to 3.6 g/t over a 2 m sample interval are present within this section but do not correlate well with the higher copper values. Significant molybdenum values ranging up to 143 ppm were

found in a 14 m zone from 100 m to 114 m. In addition, a few other scattered molybdenum values greater than 100 ppm occur throughout the sampled core.

Overall, hole M-97-2 was less well mineralized than hole M-97-1 and returned generally lower copper, molybdenum and zinc values.

Hole M-97-3

This hole was drilled to test the west end of the main chargeability anomaly. The hole was drilled due south at -60 on section 2650W to a depth of 432.8 m. The drill-hole encountered pervasive weak potassic altered, medium to coarse-grained granodiorite. Similar vein systems occur in M-97-3 as those in M-97-1 and M-97-2. Both early stage chlorite-sericite-pyrite veining and late stage quartz-pyrite veining is present throughout the hole but veining is less dense than in holes M-97-1 and M-97-2. A third set of infrequent, late stage, quartz+pyrite +/- molybdenite-bearing veinlets were noted; one at 36.8 m, another at 139.7 m and a third at 252 m. Overall pyrite content is in the order of 1% with locally up to 2% pyrite from 315 m to 330 m.

The core from hole M-97-3 was sampled at 2 m intervals from 136 m to 328 m. Only 2 significant copper values were encountered. The highest value was 668 ppm Cu over a 2 m interval corresponding to a section of strong quartz+pyrite+sericite+chlorite veining. Only one significant molybdenum value of 84 ppm over a 2 m interval reflects molybdenite mineralization noted at 139.7 m in a late stage quartz+pyrite veinlet cutting an early stage quartz+pyrite+sericite +chlorite vein. No significant silver or gold values were found in the sampling.

Hole M-97-4

This hole was drilled to test the large I.P. chargeability anomaly on section 2100W. The hole was drilled due north at -55 to a depth of 390.7 m.

The drill-hole intersected relatively unaltered, medium to coarse-grained granodiorite. Minor potassic alteration was noted throughout the hole. Sericite and chlorite alteration is confined to early stage quartz+pyrite veins and veinlets and along zones of fracturing and shearing. Clay alteration of feldspars along fractures is present locally. In places hydrothermal biotite is present adjacent to veining.

Early stage, quartz+pyrite+sericite+chlorite veining is weakly developed in the upper part of the hole to a depth of 207 m. Overall pyrite content is estimated at less than 1%. From 207 m to 246 m, vein frequency increases to 4 to 5 per meter with pyrite estimated at 2% to 3%. Local highly altered sections contain up to 15% disseminated pyrite. Veining generally becomes stronger with wider chlorite-sericite alteration margins from 246 m to 283 m.

From 283 m to 382 m, veining is weaker. A few late stage quartz+pyrite +/- molybdenite veins cut chlorite+sericite+quartz+pyrite veins from 297 m to 300 m. Near the bottom of the hole, from 382 m to 390 m, quartz+pyrite+chlorite +sericite veining increases in frequency to 4 to 6 veinlets per meter along with an increase in overall pyrite to 2% to 3%.

The core from hole M-97-4 was sampled at 2 m intervals from 160 m to 390.7 m (end of hole). No significant values of silver, copper, molybdenum or

zinc were returned except for a 1 m sample of a 60 cm-wide quartz+pyrite +chlorite-sericite vein which ran 1g/t Ag and 152 ppm Cu over 1 m.

Hole M-97-5

This hole was drilled to test a wide section of the large east-west trending I.P. chargeability anomaly. The hole was drilled due north on section 1400W at -55 to a depth of 416.7 m.

The drill-hole encountered medium to coarse-grained biogranodiorite cut by a relatively strong set of early stage quartz+pyrite+sericite+chlorite veinlets. Early stage vein density is up to 7 per m. Locally veinlets are up to 2 cm wide with pyrite content as high as 50%. Overall pyrite content is estimated at 2% to 3%. Where veining becomes weaker (from 190 m to 222 m) vein frequency drops to 2 to 3 per m.

From 222 m to 260 m, veining becomes stronger with vein frequency increasing to 4 to 5 per meter. Then from 260 m to 292 m, veining is generally weak but becomes stronger from 292 m to 406 m.

Traces of molybdenite occur along infrequent late stage quartz+pyrite veinlets, commonly oriented at low angles (10 to 30) to the core axis.

The granodiorite has been subjected to moderate potassic alteration. Where core is highly sheared and brecciated, chlorite and sericite alteration is most intense and granitic textures have been completely destroyed and original minerals replaced by pale green masses of chlorite and sericite.

The core was sampled at 2 m intervals from 25 m to 346 m. No significant copper, molybdenum or silver values were intersected. The highest silver values were from a 2 m core interval (62 m -64 m) which returned 1 g/t Ag. Sericitic and chloritic alteration is most pronounced along the margins of what are interpreted to be early stage quartz-pyrite veins.

11.0 CONCLUSIONS

The western portion of a large 4 km long by up to 1 km wide I.P. chargeability anomaly was tested by 5 widely-spaced diamond drill holes. The 2 eastern-most holes, M-97-1 and M-97-2, intersected a weakly mineralized copper-molybdenum-silver porphyry system. The mineralization is similar but not as well mineralized as that encountered in the first 5 holes drilled in 1996 which tested the eastern portion of the I.P. anomaly. The anomalous copper-molybdenum and silver mineralization is confined to quartz-pyrite vein systems hosted in a medium to coarse-grained granodiorite.

The three westernmost drill holes intersected similar quartz-pyrite veining but only sparse veinlets containing chalcopyrite and molybdenite were encountered.

The 1996 and 1997 drilling programs have partially defined a large, low-grade porphyry silver-copper-molybdenum that extends for at least 2.5 km in an east-west direction. The strongest alteration and mineralization to date was intersected in hole M-96-3.

A 1 km section of the large I.P. chargeability anomaly immediately to the west of hole M-96-3 remains to be tested.

12.0 RECOMMENDATIONS

To date, the most significant copper-molybdenum-silver values were encountered in holes M-96-1, drilled on section 32 E and M-96-3, drilled on section 24 E. This drilling only tested the central portion of a 700 m wide zone of chargeability. Since both holes collared and ended in copper-molybdenum-silver mineralization, two additional holes should be drilled on each of the 2 sections (sections 24 E and section 32 E) to fully evaluate the entire width of the chargeability anomaly. Also at least 2 holes should be drilled on section 20 E or 16 E to see if significant mineralization extends to the west.

Prior to further sectional drilling, at least 1 hole should be drilled due east or due west at -60 from the collar of M-96-3 in order to determine if the molybdenum-bearing veining can be intersected at a better angle.

A minimum program of 7 holes, each 300 m in length for a total of 2,100 meters (6,900 ft.) is required to complete this recommended program.

13.0 COST ESTIMATE FOR PROPOSED PROGRAM

Based on the recently completed drilling program, the following is a cost estimate for a 2,100 m program.

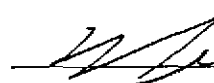
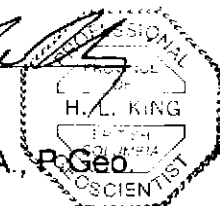
| | |
|--|------------------|
| Personnel | |
| (a) Geologist 45 days @ \$400/day | \$18,000 |
| (b) Helper 45 days @ \$140/day | 6,300 |
| Food & Accommodation | |
| 45 days @ \$140/day | 6,300 |
| Truck Rental & fuel | |
| 45 days @ \$90/day | 4,050 |
| Diamond Drilling | |
| 2,100 m @ \$65/m | 136,500 |
| Analyses | |
| 1000 samples @ \$24.50/sample | 24,500 |
| Equipment, Supplies & Services | |
| core rack material, core logging, facilities, telephone, diamond saw rental | 4,000 |
| Report Preparation | <u>4,000</u> |
| | 203,650 |
| Contingencies (10%) | <u>20,350</u> |
| Total | \$224,000 |

14.0 STATEMENT OF EXPENDITURES **MUNRO LAKE PROJECT**
 Sept. to Nov., 1997

| Personnel | Total |
|---|---------------------|
| H.L.King Work Period: Sept. 12 to Oct. 30/97 Days Worked: 41 @ \$428/day = | \$17,548.00 |
| M. Poliquin Work Period: Nov. 13 to Nov. 17, 1997 Days Worked: 5 @ \$300/day = | 1,500.00 |
| C. Lockhart Work Period: Sept. 15 - Oct. 27, 1997 Hours Worked: 350.5 hrs. X \$12.00/hr | 4,206.00 |
| Vehicle rental (includes gas & oil) | 4,019.73 |
| Food | 1,698.59 |
| Accommodation | 2,415.24 |
| Miscellaneous (includes shipping, core rack materials, supplies & telephone) | 1,070.89 |
| Diamond Saw rental and blades | 2,038.85 |
| Diamond Drilling (Beaupre Diamond Drilling) Meters Drilled: 2042.1 m (NQ core) at a direct cost of \$70.63/m | 144,229.65 |
| Analyses (Chemex Labs.) No. of samples: 596 at Av.cost of \$24.88/sample | 14,826.99 |
| Core Storage | 856.00 |
| Report Writing: 10 days @ \$400/day | <u>4,280.00</u> |
| Total | \$198,689.94 |

Respectfully Submitted

November 30/97


 H.L.King, M.A., P. Geo.


15.0 STATEMENT OF QUALIFICATIONS

I, H.Leo King, of 4747 Marguerite Street, Vancouver, British Columbia do hereby certify that:

I am a geologist and a graduate of the University of Saskatchewan, B.A. (Geology) 1961, M.A. (Geology) 1966.

I am a member of the Association of Professional Engineers and Geoscientists of B.C. and a member of the Association of Professional Engineers of Ontario.


I am a Fellow of the Geological Association of Canada.

I have practiced my profession for over 30 years.

This report is based on personal supervision of the diamond drilling program and observations made on the mineral claims during September and October, 1997.

I am currently employed by H.Leo King and Associates as a Consulting Geologist.


H. Leo King, M.A., P. Geo.
Nov. 30, 1997



Appendix 1 Diamond Drill Hole Logs

DRILL LOG

HOLE NO. 97-1

| | | | | | |
|--|-----------------|----------------|---------------|-----------------------------|------------------------------|
| DRILLING CO. BEAUPRE DIAMOND DRILLING LTD. | LOCATION SKETCH | TESTS | | DATE STARTED: SEPT 22/97 | PROJECT: MUNRO |
| | | DEPTH | DIP ANGLE | AZIMUTH | DATE COMPLETED: SEPT 29/97 |
| | | COLLAR | -55° | 180° | COLLAR ELEV.: |
| | | 205' (62.5m) | -55° | | NORTHING: 10,050 N |
| | | 405' (123.7m) | -49° | | EASTING: 4700 W |
| 800' (243.8m) | -46° | | AZIMUTH: 180° | DEPTH: 376.7m (1236') | |
| | | 1005' (306.3m) | -45° | | DATE LOGGED: SEPT 25 & 30/97 |
| HOLE TYPE CORE | | | | CORE SIZE: NP. | LOGGED BY: H.L. KING |

| INTERVAL (METERS) | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS (lithology, alteration, mineralization, structure, age relations, etc.) |
|-------------------|------|---|--------|---------|--|---|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | |
| 0 | 6.1 | OVERBURDEN-TILL | | | | | |
| 6.1 | 55.8 | Bio Granodiorite of gq 25% qtz - 15% bio | m-c.g. | m-c.g. | chlor-ser-py along equigranular fractures & veinlets granitic locally minor K-alk fairly fil. assoc. w. late stage? e. a 60° to C.A. | Trace hematite and py in qtz veinlets v. fgy. along minute qtz-py veinlets at low angles to c.a. @ 15m. | alteration selvages along veinlets up to 2cm wide. chloritic laminar sericite along fract. - a few qtz-chlor-py veinlets, locally hematitic staining along fract. av. 1 per meter; up to 1cm wide. Vein density > 4 per m from 52m - a few late stage (?) qtz-K-spar-py veinlets at low angles to c.a. up to 1cm wide (w. 20° to c.a.); av. 1 veinlet per m. chlor-ser-py veinlets at 45° to 60° to c.a. qtz-K-spar-py veinlets at 10° to 20° to c.a. Generally good quality core - 99% recovery. Core fract. @ 30°, 45° & 60°. Pink v. fgy. felsic dikes @ 45° to c.a. from 45.7 to 46.0m FAULT 20mbs: 2cm muddy shear @ 54.8m @ 70° to core axis (c.a.) 2cm " " @ 55.7m @ 60° to c.a. |
| 55.8 | 56.5 | Major Fault Zone | | | Tali-chlor-day rich shear zones | | Dissected, talc-chlor-day rich shear zones @ 60° to c.a. |
| 56.5 | 77.4 | Bio Granodiorite of gq | m-c.g. | m-c.g. | K alteration & clay equigranular with folds & part in granitic highly fract. faulted zones locally sections of K-alk. | Disseminated along each stage chlor-ser- qtz veinlets make up 2-5% of veinlet. Also disseminated up to 5% in late stage K-spar-qtz-py veinlets. | Faintly fil. sections as above but less alt. chlor-ser-py qtz veining less freq. (ca. 2 veinlets/m) but increases to 6 per m from 69 to 77.4m. Late stage K-spar-qtz-py veining w. freq. of 2 per 2m * // // @ 69.4m low angle, late stage K-spar-qtz-py veinlets sets early, chlor-ser-qtz-py veinlets. |

DRILL LOG

HOLE NO. 97-1

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | N.T.S.: |
| | | | | | LOCATION: |
| | | | | | |
| | | | | | DATE LOGGED: |
| | | | | | LOGGED BY: |
| HOLE TYPE | | | | CORE SIZE: | |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|------------------|---------|---------------------|---|---|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| | | | | | | | Locally up to 10% of core is f.g. pink felsic bin. quartz dikes + veins up to 15cm wide. 100% core recoveries. Core frags spaced from 15cm to 50cm. Dominant fractures @ 60° ± 70° and 40° ± 50°. |
| 77.4 | 85.5 | FAULT ZONE | | | slan off in along crushed & sheared zones. | | Highly fractured and crushed zone 78.8 - 79.1 Muddy shear zone; shearing @ 90° ± 50° to CA. chlor-ser. ph. in vein density decreased to ~2 per m. Late stage K-spar-qtz-py veinlet density < 1 per 2m. |
| 85.5 | 163.2 | Big Granodiorite | lt grey | m.e.g. equigranular | chlor-ser alth along veinlet selvages locally original texture destroyed by pervasiv chlor-ser over up to 50cm sections. Some sections w. pervasiv K alth. | late stage qtz-py-tarphal. @ 92.3m and @ 93.7m. veinlets up to 1cm wide @ 70° CA. minor chalcopyrite disse along early chlor-ser-qtz-py veinlets @ 82.3m Late stage qtz + K-spar-py w. traces moly. @ 87.2m @ 89.9m. Trace spy @ 98.1m in chlor-ser-qtz-py veinlet @ 70° CA. Dissem. c.g. sphal. in o. from veinlets @ 103.7, 125.3 and 130m. veinlets @ 70° ± 80° CA. c.h. | Pink felsic dikes, up to 50cm wide @ 70° to 60° C.A. Trace py (218) in dikes. Frequency of chlor-ser-qtz-py veinlets @ 3 per m from 85.5 to 96m. Freq. increasing to 5 per m from 96 to 114m, to 7 per m from 114 to 138m; then decreasing to 3 per m from 138 to 163m. Core angles ~ 60° - A few late stage qtz-py veinlets @ 70°-80° CA. becoming v. rare after 90m. Overall py occurrences A 28-38 from 114m to 119.5m. Then decreasing to 12-28 py from 129.5 to 163m. FAULT ZONES: @ 131.0 - 132.9m; sheared & muddy zone w. CA. @ 40° ± 50°. |

DRILL LOG

HOLE NO. 97-1

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | PROJECT: |
|--------------|-------|------------------|-----------|---|--|--|--|--|
| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | DATE COMPLETED: | N.T.S.: |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | COLLAR ELEV.: | LOCATION: |
| | | | | | | Dissem. fin. molybdenite in late stage veinlet @ 197.5m CA. @ 20° | | |
| | | | | | | Late stage 1cm sp. qtz-py veinlet @ 139m at 81° CA. | | |
| 163.2 | 163.4 | MAJOR FAULT ZONE | | | muddy shear: 20 cm wide C.A. 20° to 40° | minor only at 163.4m in late stage K-spar qtz-py | | |
| 163.4 | 191.4 | Bio Granodiorite | lt gy | equigranular m-cg. | Highly alt'd zone From 163.5 to 164.5 m with K-chlor-ser alt'd replacing original granitic textures. Alt'd increases from 175m assoc. w. highly fract. zone w/ 11cm mod. shear zone @ 179m. Pervasive K-spar seralt'n continues over section up to 191m. | veinlets @ 20° CA. late stage K-spar qtz-py - moly veinlet (20° CA) @ 176.2 to 176.9m. moly along veinlet margins. early cooling on low angle slip (10° CA) @ 191.1m to 191.2m. Another fault (crushed, muddy zone) zone from 189.4 to 190.1m CA. @ 30° | Chlor-ser-py-qtz veinlet increasing to 7 veins per m. From 185m to 170m; then 3 veins from 170m to 191.4m. Only a few late stage K-spar-qtz-py veinlets (4 from 165 to 175m) CA. @ 10° to 20°. Av. constant 1% to 2%. Pervasive chlor-ser py alt'n w. local K-alt'n in area from 175m in highly fract. zone near major shear zone @ 178.9 to 179.0m. Better core - less fractured from 179m to 189m. | |
| 191.4 | 194.6 | MAJOR SHEAR ZONE | | Brecciated, mod. crushed zone | chlor-ser-clay | | | |
| 194.6 | 217.4 | Bio Granodiorite | lt gy-grn | equigran. locally replaced by chlor-ser. | sections highly alt'd with orig. textures replaced by chlor + ser. from 194.6 - 196.0 m. | py dissem. along py- qtz veinlets | | |
| | | | | | | | | Highly alt'd, sili. zone from 194.6 - 196.0 original textures deleterated; some highly fract.; a few late stage py-qtz veinlets w. locally up to 5% py in veinlets |

DRILL LOG

HOLE NO. 97-1

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | PROJECT: |
|--------------|-------|--------------------------------------|-----------|------------------------------------|---|--|---|--------------|
| | | DEPTH | DIP ANGLE | AZIMUTH | | | DATE COMPLETED: | N.T.S.: |
| | | COLLAR | | | | | COLLAR ELEV.: | LOCATION: |
| | | | | | | | NORTHING: | |
| | | | | | | | EASTING: | |
| | | | | | | | AZIMUTH: | |
| | | | | | | | DEPTH: | DATE LOGGED: |
| | | | | | | | CORE SIZE: | LOGGED BY: |
| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS | |
| INTERVAL | | | | | | | (lithology, alteration, mineralization, structure, age relations, etc.) | |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | | |
| | | | | | Very old w. orig. folios preserved from 196-201 m | strong pyritic veining | Fault zone: 196.6 To 196.8. | |
| | | | | | strong 1cm qtz-py-mo vein from 210.7-211.9 hrs | Several Ksp-py-mo veins from 206.4 to 211.9; veining along the core | Highly fract. zone with locally shear zones to 199.8. From 201 to 217.4 m highly alt. silicified; most of original textures destroyed. Late stage (?) high angle qtz-py ± km veining up to 1 cm wide; vein freq: 1 per m. | |
| | | | | | strong alt. silicified (2cm wide) next to vein is silicified - thin silicified margin | strong 1cm qtz-py-mo veins from 210.7 to 211.7 | Less well developed older chlo-ker-py-qtz vein set from 191.6-207.4 m; vein freq: 2.53 per m. | |
| | | | | | | many (13) coarse grained along vein margin. E.g. disseminated in vein at 20% of vein; mo etc. 11 to 2% of vein. | Note: Two vein sets carry molybdenite; earlier Ksp-py ± moly and late stage qtz-py ± moly; both sets sub-parallel to core. | |
| | | | | | | Ksp-py-qtz-mo vein from 215.6-215.9 m @ 10° to c.a. | | |
| 217.4 | 220.5 | Andesite dike | lt brown | Porphyritic | cut by ^{qtz} carbonate str minor carb alt in near str. | mainly py along early veinlets. | lt cream colored fold par. planes cut in lt brown, fg. matrix. | |
| 220.5 | 234.0 | Bio Granodiorite col bio: 20% qtz | lt grey | m.g. to coq. equigranular granitic | sections highly alt. in places completely replacing granitic associated | mostly along 2 late stage Ksp-py-qtz veinlets at 221.5-221.7 and from 227.2-227.0; veinlets textures locally weak associated | Early veining (chlo-ker-py-qtz) in sparse (from 1.2 per m.) Late stage Ksp-py-qtz veinlets av. < 0.5 per m. MAJOR FAULTING: 228.0-228.0 228.9-229.9: 50% cut core in major m. 232.0-232.1 | midly sand. |
| | | | | | | Ksp-py | | |

DRILL LOG

HOLE NO. 97-1

| | | | | | | |
|--------------|-----------------|-----------------|-----------|---------|-----------------|--------------|
| DRILLING CO. | LOCATION SKETCH | DEPTH COLLAR | TESTS | | DATE STARTED: | PROJECT: |
| | | | DIP ANGLE | AZIMUTH | DATE COMPLETED: | N.T.S.: |
| | | | | | COLLAR ELEV.: | LOCATION: |
| | | | | | NORTHING: | |
| | | | | | EASTING: | |
| | | | | | AZIMUTH: | |
| | | | | | DEPTH: | DATE LOGGED: |
| | | | | | CORE SIZE: | LOGGED BY: |

| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|-----------|-------|--|--------|----------|---|---|---|
| INTERVAL | | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| FROM | TO | | | | | | |
| 237.0 | 244.6 | Bio Granodiorite foliated, <10% qtz = 0.7 bio | med gy | foliated | unaltd except for weak chlor-sulphates along older sparse veinslets. From 240.5-244.6 highly alt'd section in chlor-ser-py-qtz chlor-ser-py-qtz completely replacing f.c. granitic textured rock. | minor qtz along veinlets (48%) From 240.5, notable spec in chlor-ser-py-qtz veinings & late stage Kspar- 95-py veining increase in pyrite to 10-15% dissemin py in at 97, highly alt'd, little zone several late stage py-qtz veins up 5.5 cm @ 60° C.A. | at 97 leuco granodiorite appears to cut foliated and granitic (finer grained) med-dk grey granodiorite. cut by sparse early chlor-py-qtz veinlets and few (ca. 0.5 per cm) late stage Kspar-95-py veinlets (up to 1cm) @ N°-20° E C.A. no moly noted. At 234.1, muddy 5cm fault @ 60° E. C.A. at 97, leuco granite dike @ 236.7 E 237.2m. Contact @ 40° C.A. @ 244.1 major SHAR-20WB (3cm muddy shear). present E 5cm qtz-py vein. |
| 244.6 | 289.6 | Bio Granodiorite, lt gy massive m & c-g. granitic | | | slight K alt'n Highly alt'd section from 255.8-258.5; alt'd f.c. chlor-ser-py-qtz distinct chlor-ser sulphate (late stage?) veins at 50° up to 2cm on each side of veinlet. Porphyry K alt'n from 267.0-267.5 267 E: 288.2 m | one, 5cm qtz-py vein @ 248.5 1/10 2% py Several 95-py-kennite distinct chlor-ser-py veins at 50° up to 2cm on each side of veinlet. 260.3-261.3; 262.5-262.8 & 263.3-267.2 267.0-267.5 267 E: 288.2 m | Highly fract sections; minor chlor-ser-py-qtz veining Some sections of older finer-grained bio-rich granodiorite. (up E 20% bio). MAJOR SHAR-20WB: 260.0-260.3: 2cm muddy shear & shearing @ 30° & 50° C.A. 261.8-262.3: highly crushed & shaly zone & chlor-ser-95-py veining increases to 7.65 per cm (from 278.0) veinlets @ 90° & 80°-70° & 95-Kspar-py f.c. veining (<0.5 per cm) @ 20° C.A. up to 1cm width. 267.0-267.5 267 E: 288.2 m Foliated dk grey porphyry dike from 277.6 to 278.8 m from 288.0-289.4 |

DRILL LOG

HOLE NO. 97-1

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | COLLAR ELEV.: |
| | | | | | NORTHING: |
| | | | | | EASTING: |
| | | | | | AZIMUTH: |
| | | | | | DEPTH: |
| | | | | | DATE LOGGED: |
| | | | | | CORE SIZE: |
| | | | | | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|--|-------------|--|--|--|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 289.6 | 310.0 | Bio Granodiorite more bi-t-rich than prev. section | med gy | fine-gr. equigranular | no K alt'n from 289-291 minor K alt'n from 299-300 | one chlor-ser-py veinlet w. eq. blob (1cm) | chlor-ser-py veinlet freq. 3 per m. from 289 to 291 veinlets increasing to 6 per m from 299 to 302 decreasing to 3 per m from 302 to 320 |
| | | | | | Zone of strong alt'n from 299.6 to 310. orig. texture destroyed by chlor-ser-py | of spy @ 291.5m (CA @ 80°) Av. py content overall est @ 1% | core angles of veinletting @ 30°, 45° and 60° to 80° MAJOR ZONE OF FAULTING & DISLOCATION: 302.8 to 305.0 |
| | | | | | hem-grt assoc. w. major zone of shearing | 30 cm hem-grt-py vein @ 205.8 to 305.8 | increase in alt'n assoc. w. Fault zone. @ 302.8, 2cm mud shear @ 70°Z, 1cm mud shear @ 60°CA @ 305.0, 2cm mud shear @ 70° to CA. |
| 310.0 | 319.2 | Bio Granodiorite highly ALTA. | Platy green | med. gr. fairly granitic reluctant to replaced by pale green ser | Prodom pale green ser-py chlor replacing reluctant to orig. granitic texture. Locally patches of reddish K alt'n. | 5. few late stage 75-py veinletting | veinletting @ 10°-20° CA. Freq. of veinletting is 2-0.5 per m. |
| 319.2 | 320.0 | MAJOR MUDDY FAULT ZONE @ 45° to CA. | | | | | |
| 320.0 | 353.2 | Bio Granodiorite | clgy | fine-gr. granitic | Sections of pervasive K alt'n (salmopind) and ser-py pale green alt'n replacing (pyrite) these alt'n combined to vein selvages Alt'n increases adjacent to major shearing pale green ser alt'n increasing from 341 to 347.5 m. | A major hem-grt-py vein 10cm wide @ 70° to CA. From 317.2 to 317.4 strong chlor-ser-py veinletting. Pyrite content | strong chlor-ser-py veinletting freq. is 6.67 per m. with 2 main veinlets one @ 40°; one @ 60° to CA. Also late stage 75-py veinlet, Av. 1cm wide. 10°-20° to CA. vein freq. 1 per 2m MAJOR SHEAR ZONES: 312.1-312.2 @ 70° CA 341.3-342.4 @ 70° CA 347.5-347.6; 10cm muddy zone @ 60° CA. @ 347.5, 10cm mud seam @ 60° CA. |

R 7677

DRILL LOG

HOLE NO. 97-1

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | N.T.S.: |
| | | | | | LOCATION: |
| | | | | | NORTHING: |
| | | | | | EASTING: |
| | | | | | AZIMUTH: |
| | | | | | DEPTH: |
| | | | | | DATE LOGGED: |
| | | | | | LOGGED BY: |
| HOLE TYPE | | | | | |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|--------------|-------|------------------|---------|-----------------|--|---|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 353.2 | 360.4 | MAJOR FAULT ZONE | | SHRD FAX'D | | Strong hematitic + pyritic veining. Discon overall py cont @ 38 to 51% + 10% hematite. | Fault zone @ 40°-50° to CA major zone of shearing & brecciation w. muddy shears up to 20 cm. Muddy shales: 353.5 to 357.8 358.1 to 358.5 |
| 360.4 | 376.7 | Dio E. sandstone | lt grey | m-s.g. granitic | Silicified from 360.4 to 362.0 | | |
| 376.7 (296') | | END OF HOLE | | | Early pervasive K-feldspar (K-feldspar) bounded by chlorite cut by wide chlorite - ser. all in salvages along veinlets which make up 50% of core volume. | Strong sets of 95-100 veinlets bounded by chlorite ser. salvages. Py in veinlets & locally c.g. (up to 0.5 cm) * overall py content of this section is 33 to 52%. | vein freq: 3 per m from 360 to 364 m and 7 per m from 369 to 376 m 3 vein sets: 20° to 30°, 40° to 50° and 70° to CA Fracture sets: @ 20°, 40° to 45° and 60° to 70° to CA individual veinlets contain up to 20% py in minor discon py but mainly py in veinlets up to 1 cm wide. (Av. 0.5 cm). |
| | | | | | | Some late stage py in veinlets at high angles to CA and older discon py - of veining. | |

DRILL LOG

HOLE NO. 97-2

| | | | | | |
|---|-----------------|--------------|-----------------|------------------------------------|---------------------------------------|
| DRILLING CO. BEAUPRE DIAMOND DRILLING LTD. | LOCATION SKETCH | TESTS | | DATE STARTED: OCT 1, 1997 | PROJECT: MUNRO |
| | | DEPTH | DIP ANGLE | AZIMUTH | DATE COMPLETED: Oct 19, 1997 |
| | | COLLAR | -55° | 180° | COLLAR ELEV.: NORTHING: 102 + 25 N |
| | | 61.0 (200') | -56° | | EASTING: 7 + 00 W |
| | | 121.9 (400') | -55° | | AZIMUTH: 180° |
| | | 182.9 (600') | -58° | | DEPTH: 425.2m (1395') |
| 243.8 (800') | -53° | | CORE SIZE: N.B. | DATE LOGGED: OCT 2 to Oct 11, 1997 | |
| 304.8 (1000') | -52° | | | LOGGED BY: H.L. KING | |
| 419 (1375') | -48° | | | | |

| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|-----------|-------|---------------------------------|--------------|----------|---------------------|----------------|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 0 | 40.5 | CASING | | | | | CASING: CASE REAMED TO 87m. |
| 40.5 | 86.8 | GLACIAL TILL - highly compacted | | | | | Highly compacted till. Pebbled boulders up to 15 cm dia, mainly m-sq. bio-trondhjemite boulders & pebbles. A few volcanic ags clasts. Matrix is lt brown, clay-rich, supporting sand & pebble size clasts. |
| 86.8 | 95.4 | Bio Granodiorite | ltgy | mg. | | | Highly fractured, rusty fractures sul lost core. |
| 95.4 | 180.0 | Bio Granodiorite | ltgy-palegrn | sediment | Highly alk' granite | 3 vein types: | Two main vein systems 1) a late stage (?) qtz-epherm (late stage?) qtz-pyrox + mag. clasts 0.2cm to 1cm wide 2) Early stage massive ser-chlor 3) Early stage massive ser-chlor 4) Early stage massive ser-chlor 5) Early stage massive ser-chlor 6) Early stage massive ser-chlor 7) Early stage massive ser-chlor 8) Early stage massive ser-chlor 9) Early stage massive ser-chlor 10) Early stage massive ser-chlor 11) Early stage massive ser-chlor 12) Early stage massive ser-chlor 13) Early stage massive ser-chlor 14) Early stage massive ser-chlor 15) Early stage massive ser-chlor 16) Early stage massive ser-chlor 17) Early stage massive ser-chlor 18) Early stage massive ser-chlor 19) Early stage massive ser-chlor 20) Early stage massive ser-chlor 21) Early stage massive ser-chlor 22) Early stage massive ser-chlor 23) Early stage massive ser-chlor 24) Early stage massive ser-chlor 25) Early stage massive ser-chlor 26) Early stage massive ser-chlor 27) Early stage massive ser-chlor 28) Early stage massive ser-chlor 29) Early stage massive ser-chlor 30) Early stage massive ser-chlor 31) Early stage massive ser-chlor 32) Early stage massive ser-chlor 33) Early stage massive ser-chlor 34) Early stage massive ser-chlor 35) Early stage massive ser-chlor 36) Early stage massive ser-chlor 37) Early stage massive ser-chlor 38) Early stage massive ser-chlor 39) Early stage massive ser-chlor 40) Early stage massive ser-chlor 41) Early stage massive ser-chlor 42) Early stage massive ser-chlor 43) Early stage massive ser-chlor 44) Early stage massive ser-chlor 45) Early stage massive ser-chlor 46) Early stage massive ser-chlor 47) Early stage massive ser-chlor 48) Early stage massive ser-chlor 49) Early stage massive ser-chlor 50) Early stage massive ser-chlor 51) Early stage massive ser-chlor 52) Early stage massive ser-chlor 53) Early stage massive ser-chlor 54) Early stage massive ser-chlor 55) Early stage massive ser-chlor 56) Early stage massive ser-chlor 57) Early stage massive ser-chlor 58) Early stage massive ser-chlor 59) Early stage massive ser-chlor 60) Early stage massive ser-chlor 61) Early stage massive ser-chlor 62) Early stage massive ser-chlor 63) Early stage massive ser-chlor 64) Early stage massive ser-chlor 65) Early stage massive ser-chlor 66) Early stage massive ser-chlor 67) Early stage massive ser-chlor 68) Early stage massive ser-chlor 69) Early stage massive ser-chlor 70) Early stage massive ser-chlor 71) Early stage massive ser-chlor 72) Early stage massive ser-chlor 73) Early stage massive ser-chlor 74) Early stage massive ser-chlor 75) Early stage massive ser-chlor 76) Early stage massive ser-chlor 77) Early stage massive ser-chlor 78) Early stage massive ser-chlor 79) Early stage massive ser-chlor 80) Early stage massive ser-chlor 81) Early stage massive ser-chlor 82) Early stage massive ser-chlor 83) Early stage massive ser-chlor 84) Early stage massive ser-chlor 85) Early stage massive ser-chlor 86) Early stage massive ser-chlor 87) Early stage massive ser-chlor 88) Early stage massive ser-chlor 89) Early stage massive ser-chlor 90) Early stage massive ser-chlor 91) Early stage massive ser-chlor 92) Early stage massive ser-chlor 93) Early stage massive ser-chlor 94) Early stage massive ser-chlor 95) Early stage massive ser-chlor 96) Early stage massive ser-chlor 97) Early stage massive ser-chlor 98) Early stage massive ser-chlor 99) Early stage massive ser-chlor 100) Early stage massive ser-chlor |

DRILL LOG

HOLE NO. 97-2

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | | PROJECT: | |
|--------------|-------|------------------------------|------------|-------------|-----------------------|------------------------------|--|--|--------------|--|
| | | DEPTH | DIP ANGLE | AZIMUTH | | | | | N.T.S.: | |
| | | COLLAR | | | | | DATE COMPLETED: | | LOCATION: | |
| | | | | | | | COLLAR ELEV.: | | | |
| | | | | | | | NORTHING: | | | |
| | | | | | | | EASTING: | | | |
| | | | | | | | AZIMUTH: | | | |
| | | | | | | | DEPTH: | | DATE LOGGED: | |
| HOLE TYPE | | | | | CORE SIZE: | | LOGGED BY: | | | |
| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS | | | |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) | | | |
| 180.0 | 185.2 | Andesite porphyry dike medgy | | Porphyritic | unaltered | unmineralized | Good quality core (up to 30 cm) Dominant fracture direction: 30°, 45°-50° Sheared at contact (50°-60° CA) Major shear zone at contact from 184.7-185.2 | | | |
| 185.2 | 193.6 | Bio Granodiorite | ltgy-pide | m.-c.g. | Perovsian moderate | chlor-ser-pyrite veining | chlor-ser-pyrite veining freq. = 36 # veins per m. @ some angles of 10°, 40-50° and 70° Late stage 95% py veining; freq. 1 to 2 veins per m. Core angles: 10°, 30°, 40-50° and 60-70° Pyrite content increases to 2.5-3% as veining (late stage) becomes stronger w. locally up to 2 cm wide veins w. c.g. pyrite. Crushed & brecciated zone from 186.7-187.5 m | | | |
| 193.6 | 194.3 | Andesite porphyry | medgy | Porphyritic | matrix calc altn | veining less pronounced | contacts: upper 48°; lower 60° | | | |
| 194.3 | 200.0 | Bio Granodiorite | pale green | m.-c.g. | Perovsian strong per. | vein density less pronounced | vein density; early stage chlor-ser-pyrite veins @ 1 per m. Late stage 95% py veining @ 2 per m. Highly sheared & crushed zone from 194.3-195.5 " " + muddy zone from 199.2-200.0 | | | |
| 200.0 | 203.5 | Andesite | medgy | porphyritic | | | upper & lower contacts at 50° to CA. | | | |

plag. granis (20%) x 0.5 cm

DRILL LOG

HOLE NO. 97-2

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | PROJECT: |
|--------------|-------|------------------------------------|--------------------------------|---|--|--|---|----------|
| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS | |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) | |
| 203.5 | 217.8 | Bio Granodiorite Highly Altered | Pale green pink sections | m-cg. granitic | Extensive (strong) pale green - qtz ser - chlor - qtz alteration K spar - rich remnant | strong late stage py - qtz veining; veinlets up to 10cm wide w- up to 50% quartz minor early chlor - ser py - qtz veining | - Late stage veining: 3 per m - veining @ 20°-30° and 40°-60° GC. Early chlor - ser - py - qtz veining is weak; 1/2 vein per m @ 40°-50° GC. over all py content (mainly in late stage veining) est. at 3% Generally good quality core. | |
| 217.8 | 228.9 | Andesite porphyry | med gq | Porphyritic Mag plagioclase 20% up to 5cm (A-0.2cm) | | | Good quality core; up to 1 m sections | |
| 228.9 | 240.3 | Bio Granodiorite | pale green pink | m-cg. granitic | Highly altered Pervasive pink K alteration + pale green acid feldspars. locally sections completely replaced by qtz and ser. | strong late stage py - qtz veining early stage chlor - ser py - qtz veining weakly envelopes small py - it: 3% | Late stage veining frequency: 4 per m; veining at 10°-30° and 40°-50° - strong 10-20° vein direction with veins up to 5cm wide up to 50% py. early chlor - ser - py - qtz vein density: 1/2 per m; veining at 40°-50° | |
| 240.3 | 253.7 | Andesite Porphyry | med gq | Porphyritic Mag plagioclase 30% | | | Very good quality core | |
| 253.7 | 254.2 | Bio Granodiorite | Orange Ugg | Archaic | Completely altered to chlor - ser - qtz | | | |
| 254.2 | 267.9 | Andesite porphyry | med gq | Porphyritic | | | From 257.2 - 255.5 v. fine groundmass with slightly porphyritic texture. | |

DRILL LOG

HOLE NO. 97-2

| | | | | | |
|--------------|-----------------|--------|-----------|-----------------|--------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | DATE COMPLETED: | N.T.S.: |
| | | COLLAR | AZIMUTH | COLLAR ELEV.: | LOCATION: |
| | | | | NORTHING: | |
| | | | | EASTING: | |
| | | | | AZIMUTH: | |
| | | | | DEPTH: | DATE LOGGED: |
| | | | | CORE SIZE: | LOGGED BY: |

HOLE TYPE

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|--|------------------------------|---------------------------------|--|--|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 267.9 | 272.5 | Bio Granodiorite Highly alt'd + box'd | ltgy-green to salmon pink | locally box'd | Peruvian Potassic, sericitic chloritic alt'n. original textures in some sections completely replaced by milled qtz-chlor-ser-qtz | late stage qtz-py-vein set up to 1cm wide veins | vein freq. 3 per m, orientation e along core, 70° to 80° Andesite dike (from 272.1 to 272.5) with dk gy & black quartz chert containing stringers & dissems of (SX) |
| 272.5 | 276.5 | Andesite Porphyry | gy-green | Porphyritic | minor carbonate veining | | upper contact @ 20'; lower at 40' |
| 276.5 | 286.7 | Bio Granodiorite | ltgy-pink | s.g. granitic | Peruvian Potassic sericitic alt'n; original textures preserved | weak qtz-py-chlor-ser veining; chlor-ser alt'n along selvages of veins | vein freq. 3 to 4 per m, vein orientation at 70°, 40°-50° and 60°-70° unable to distinguish more than 1 vein system since all veins have chlor-ser-qtz alteration selvages |
| 286.7 | 294.5 | Andesite Porphyry | med gy | Porphyritic vol. glass phase | | | Highly crushed & brecciated zone from 285m to 286.7m. Highly crushed & sheared dike from 286.7 to 290.0m major shear zone along lower contact. |
| 294.5 | 326.3 | Bio Granodiorite | ltgy-pink pale green | m.g. granitic | Peruvian Potassic alteration and chlor- sericitic alteration along vein margins up to 5cm wide locally minor hydrothermal biotite. Some sections completely replaced to qtz and sericitic with original textures destroyed. | qtz-py-chlor-ser veining; molybdenite-qtz-py veining @ 297, 297.5, 298.5 to 299.0 Trace apatite in qtz-py veining @ 301.9m in a 0.5cm vein @ 298.6m Also molybdenite in 0.5cm vein at 305.9m @ 298.6m Locally to chloropyrite | The veining in this zone is assoc. with highly silicified sericitic zone No zone yet appear related to late phase of veining. vein freq. 5 per m, down to 4 per m from 312 to 318. vein orientations: dominant @ 90°, less frequent @ 10°, 20° & 30° Highly fract zone: 296.3 to 300m. MAJOR FAULT ZONE @ 303 & 305 - highly crushed & molly shear zone @ 312 to 312.9m; shearing @ 40° & 20° @ 314 & 315.7m; shearing @ 30° @ 322 to 323m; crushed & molly zone; shearing @ 95° & 25° |

* Strong py-qtz veining from 324 to 326.3; up to 2cm wide veins; vein freq. 5 per m.
20 to 40% within veinlets; overall py content: 5%

DRILL LOG

HOLE NO. 97-2

| | | | | | | |
|--------------|-----------------|-----------|-----------|---------|-----------------|--------------|
| DRILLING CO. | LOCATION SKETCH | DEPTH | TESTS | | DATE STARTED: | PROJECT: |
| | | DIP ANGLE | DIP ANGLE | AZIMUTH | | |
| | | COLLAR | | | DATE COMPLETED: | N.T.S.: |
| | | | | | COLLAR ELEV.: | LOCATION: |
| | | | | | NORTHING: | |
| | | | | | EASTING: | |
| | | | | | AZIMUTH: | |
| | | | | | DEPTH: | DATE LOGGED: |
| HOLE TYPE | | | | | CORE SIZE: | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|------------------------------------|---------------|---|---|--|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 326.3 | 335.0 | Andesite Porphyry | lt grey | Porphyritic plag stones lt. green; m. or cen. | minor carb. veining altered feldspars | | End quality core; up to 1 m sections |
| 335.0 | 341.4 | Bio Granodiorite Highly altered | lt grey-green | bed. mottled | Original granitic texture destroyed; mottled, oxid. qtz-ser-py; locally plagioclase alteration. | Strong py-qtz veining Minor Amphibolite veinlet; oriented @ 10° to 60° | vein freq: 5 per m. vein orientations: Predom 90° with some at 10° and 20° and 60° Shear zones: 335.8 - 336.2; mostly vertical 337.0 - 337.4 Dissim. py: 1% to 2%; overall py content @ 9% to 5% |
| 341.4 | 346.6 | Andesite Porphyry | lt grey | Porphyritic | minor carb. veining | | |
| 346.6 | 393.1 | Bio Granodiorite Highly alt'd. | | | Highly alt'd to qtz-ser ch. by. Locally remnants of Palaeozoic and granite with orig. textures preserved. Clay alt'n at dike contacts | strong py-qtz veining Trace gelsina @ 35% Cap. Dissim. py and vein pyrite ext. at 5% overall. From 346.6 to 365 m. Pyrite content decreases from 365 m to 381 m. Then increases to 3% to 8% from 381-391 m. Trace m. and Minor Fluorite @ 44.9; | vein density: 7 veins per m. from 346.6 to 365 m. decreasing to 3 veins per m. from 365 to 381 m. increasing to 5 veins per m. from 381 to 391 m. vein orientations: Predom 60°-70° and a few at 10°-20° from 346 to 365 m. Predom 20° to 30° w. a few at 40° and 60° from 365 to 381 m. Predom 30° to 40° with a few at 10° and 60°-20° from 381-391 m. FAULT ZONES: 391.0 to 393.1, shift & crushed zone; slickens @ 60° |
| 393.1 | 394.3 | Andesite Porphyry | | | Amphibole staining | | |
| 394.3 | 425.2 | Bio Granodiorite | lt grey-pink | m. c.g. granitic | Porphyritic Palaeozoic alt'n w. about 50% of orig. textures destroyed replaced by ser-qtz-chlor-py. | Strong chlor-ser-py veinings up to 2 cm wide veins. pyrite: 3% to 4% | vein freq: 5 to 7 per m. vein orientation: predom 40°-50° with some 0°, 10° & 30° to 60° FAULT ZONES: 394.5 to 395.0 396.3 to 397.4 206.7 to 407.4; muddy, shale crushed zone Fractured core: 405.9 to 413.0 with faulting @ 50° to 60°. |

M. OF CASING LEFT IN HOLE.

DRILL LOG

HOLE NO. 97-3

| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: | |
|--------------|-----------------|--------------|-----------|---------------|------------------------------|-----------------------------------|
| | | DEPTH | DIP ANGLE | AZIMUTH | OCT 5, 1997 | MUNRO |
| | | COLLAR | -60° | 180° | DATE COMPLETED: OCT 13, 1997 | N.T.S.: |
| | | 61 - (2m) | -59° | | COLLAR ELEV.: | LOCATION: |
| | | 126.9 (90') | -55° | | NORTHING: 107+70 N | |
| | | 182.9 (60') | -54° | | EASTING: 26+50 W | |
| | | 249.8 (80') | -50° | | AZIMUTH: 180° | |
| | | 207.8 (100') | -50° | | DEPTH: 432.8 m | DATE LOGGED: OCT 6 - OCT 13, 1997 |
| HOLE TYPE | | 426.7 (100') | -43° | | CORE SIZE: N.P. | LOGGED BY: H.L. KING |

| INTERVAL (m) | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|--------------|-------------|-----------------|------------|---------|--------------------------|--|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 0 | 12.9 | CASING | | | | | GLACIAL TILL |
| 12.9 | 432.8 | Rio Granodivite | lt grey-pk | m-cg | Pervasive K | qtz-py-chlor-ser | chlor-ser-m-qtz veining; vein frequency 2-6+ per m dropping to 1 per m from 70m to 150m |
| 432.8 (100') | END OF HOLE | | | | granitic | veining (weak) | veining is relatively weak on narrow alt margins |
| | | | | | equigranular | pyrite <1% | to veins. Vein orientation: @ 30-40, 50-60 & 70° |
| | | | | | along vein margins | pyrite | core highly fractured with sections up to 30° l.c. |
| | | | | | From 108.9 to 119.9 | stage 2cm qtz-py | Late stage veining is very weak; less than vein per 2m; |
| | | | | | a highly altered breccia | vein @ 20° G.C.A. | random vein direction is 20-30° to c.a. |
| | | | | | zone; altered to mottled | qtz | Early chlor-ser-py-qtz veinlet cut by late stage quartz-py solid |
| | | | | | grey, chlor-ser-qtz | at 139.7 & 140m | vein @ 85° E. Both veins at 40°-50° G.C.A. cut @ 90° to |
| | | | | | Granitic texture | a late stage qtz-py-ma | each other. |
| | | | | | completely destroyed. | veinlet (1.5cm wide) @ | Core less fract. from 60m to 196.5m. |
| | | | | | alt. selvages widen | 10° to 20° G.C.A. cuts | False dike (pink split) at 108m to 108.7 |
| | | | | | to 5cm. | early chlor-ser-py-qtz | brecciated, highly alt. chlor-ser-qtz from 108.9-114.3m |
| | | | | | Generally only narrow | veinlet @ 40° G.C.A. | From 140m to 150m, vein orientation is 70° to 80° and from |
| | | | | | chlor-ser alt selvages | Overall pyrite content 18% | 150m to 205m, dominant orientation is 40° with some 60° & 70°. |
| | | | | | Core is relatively | major late stage ma-qtz-py | vein density increases to 1.5 per m from 150m to 300m. |
| | | | | | smaller except for | veinlet has no alt selvage. | and decreases to 1 per m from 160m to 300m. |
| | | | | | moderate potassic | at 182.3, minor. | Highly fractured from 188m to 205m. |
| | | | | | alt. | chlorite noted in qtz-py | FAULT ZONES: 201.2 & 202.3, muddy shear zone; shear @ 10° to 20° G.C.A. |
| | | | | | | vein in 5cm chlor selvage. | |
| | | | | | | minor Anhydrite in | |
| | | | | | | chlor-ser-py-qtz veinlet @ | 220.3m. |
| | | | | | | veinlet @ 70° to c.a. | |
| | | | | | | py-epidote vein ~ 1cm wide c.g. py from 226.6-226.8m; vein @ 10° to c.a. | |

DRILL LOG

HOLE NO. 97-3

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | N.T.S.: |
| | | | | | LOCATION: |
| | | | | | NORTHING: |
| | | | | | EASTING: |
| | | | | | AZIMUTH: |
| | | | | | DEPTH: |
| | | | | | DATE LOGGED: |
| HOLE TYPE | | | | CORE SIZE: | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|----|-----------|--------|---------|------------|----------------|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| | | | | | | | There appears to be at least 3 qtz-py vein systems, widths varied. |
| | | | | | | | 1) qtz-py vein w. chlor-ser selvages |
| | | | | | | | 2) Later stage, very thin (1-2cm) qtz-py veins w. no alt'n selvages. |
| | | | | | | | 3) Late stage of quartz-pyrite veins, ^{orientated} generally along the strike @ 70° |
| | | | | | | | Vein frequency: ... |
| | | | | | | | 300-316m; 1.5 to 2 per m. |
| | | | | | | | 316-327m; 2 per m. |
| | | | | | | | 327-356m; 1.5 to 1.5 per m. |
| | | | | | | | 356-360m; 2 per m. |
| | | | | | | | 360-422m; 4 per m. |
| | | | | | | | Vein orientation: (G.C.A.) |
| | | | | | | | 36-327; 70°-50° dominant; a few at 30° and 170° |
| | | | | | | | 327-356; 70°-30° and 20° and 70° |
| | | | | | | | 356-360; 40° dominant |
| | | | | | | | 360-422; 40° and 10° |
| | | | | | | | Notes: From 300m, vein density decreases |
| | | | | | | | to 4 per m. and overall py content is less than 1% |
| | | | | | | | and vein orientation is generally c. 40° with |
| | | | | | | | some at 80°-90°. |
| | | | | | | | Blacks con py of 2.2% each in vein. |
| | | | | | | | A major chlor-ser-py vein (60cm along core) |
| | | | | | | | vein 30cm wide, 5m (60cm along core) |
| | | | | | | | From 427.3 to 427.9 m. |
| | | | | | | | vein @ 40° to Ch. |

DRILL LOG

HOLE NO. 97-4

| | | | | | | |
|----------------|-----------------|----------------|---------------|------------------------------------|------------------------------|-----------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: | |
| | | DEPTH | DIP ANGLE | AZIMUTH | OCT 13, 1997 | MUNRO |
| | | COLLAR | -55° | 0° | DATE COMPLETED: OCT 18, 1997 | N.T.S.: |
| | | 61m (200') | -53° | | COLLAR ELEV.: | LOCATION: |
| | | 122m (400') | -54° | | NORTHING: 99100N | |
| | | 182.9m (600') | -53° | | EASTING: 20+90W | |
| | | 243.8m (800') | -54° | | AZIMUTH: 0° | |
| 304.8m (1000') | -54° | | DEPTH: 390.7m | DATE LOGGED: OCT 14 - OCT 18, 1997 | | |
| HOLE TYPE | | 365.7m (1200') | -53° | CORE SIZE: NP | LOGGED BY: H. L. KING | |

| INTERVAL (m) | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|--------------|-------|------------------|--------|------------------------------|--|--|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 0 | 3.0 | CASING | GLASS | TILE | | | |
| 3.0 | 135.5 | Bio Granodiorite | Ltg | m.-cg. granitic equigranular | relatively unaltered; minor potassium alt'n. ser-chlor vein selvages and also along major shear zones. | A few qtz-ser-chlor veins, but generally a weak vein system with weak chlor-ser selvages. vein density decreases from 8m to 106m. | From 3m to 17m: vein freq: 1 per m. vein orientations: 70°, 60° & 80°. Pyrite content: 4.1% From 17m to 89: vein freq: 1 per m. vein orientation: 70° & 70° dominant, plus 60° & 80°. Pyrite: 2.1% MAJOR FRACTURE ZONES: 21.5m to 37.5m + 99.0m to 98.0m 50% Lost Core from 22.3 to 25.9m. FAULT ZONES: 26.9-27.1; 10cm med seam @ 70° ca. 36.7-36.8; 10cm medly shear @ 60° ca. 30% Lost core { 71.0-71.7 } major zone of crushed & sheared rock. { 92.0-93.3 } 59.9-67.0; highly crushed & sheared zone. 60% Lost Core. From 87m to 94m: vein freq: drops to 0.5 per m. vein orientations: 40° & 70° predom, plus 60° & 80°. Pyrite: 2.1%. From 94 to 106m: Vein freq: 2/m. Vein orientations: strongest set @ 70°; weak set @ 40° and a 80°-90° From 105.5 to 135.5: highly fractured section w. local zones of crushed and sheared core. From 120-135m: 30% Lost core. |
| | | | | | Locally hydrothermal breccia adjacent to veining. | Trace iron increase in veining. | |
| | | | | | From 105.9 to 107.5, strong chlor-ser alt'n coincident with a zone of fracturing, crushing & shearing. | pyrite veins with highly alt'd halos and 70° to ca. also a set of very thin qtz-py-ser-chlor veinlets w. minor chlor-ser alt'n along selvages, veins mainly at 40° and 80°-90° | |
| | | | | | Considerable clay alt'n of feldspars, especially along fractures. | | |

DRILL LOG

HOLE NO. 97-4

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | PROJECT: |
|--------------|-------|-------------------------------------|----------------------------|----------------------------------|--|--|--|--------------|
| | | DEPTH | DIP ANGLE | AZIMUTH | | | DATE COMPLETED: | N.T.S.: |
| | | COLLAR | | | | | COLLAR ELEV.: | LOCATION: |
| | | | | | | | NORTHING: | |
| | | | | | | | EASTING: | |
| | | | | | | | AZIMUTH: | |
| | | | | | | | DEPTH: | DATE LOGGED: |
| | | | | | | | CORE SIZE: | LOGGED BY: |
| HOLE TYPE | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS | |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) | |
| 135.5 | 139.3 | Bio Granodiorite Highly altered. | plc green | bird | original texture completely destroyed replaced by chlor-qtz-ser | altered chlor-ser zone on east side of 60 cm qtz-py-chlor vein @ 60° to C.A. vein contains ca 5% py minor graphite along shears in qtz vein. overall py < 1%. | From 136.5-139.3: vein frequency: < 0.5 veins per m. From 135.3 to 135.9: 50% lost core From 139.7 to 159.2: Vein freq: < 0.5 veins per m. vein orientations: 20°, 90°, 60°, & 70°-80° pyrite: < 1% | |
| 139.3 | 159.2 | Bio Granodiorite | lgy-green m-c.g. | granitic | Perovasion moderate potassic and sericitic alth with highly altered chlor-ser sections where sheared & brecciated. | | FAULT ZONE: 141.2 - 149; major zone of shearing sections maddy, brecciated shearing @ 90° to C.A. | |
| 159.2 | 171.0 | Bio Granodiorite Highly Altered | gy-green | original textures replaced | mostly gy-green chlor-ser-qtz | Dissemination and weak qtz-py veining in brecciated zones overall py ca 2% | From 159.2-171: Vein freq: 3 per m. vein orientations: 20°, 40°, 60° pyrite in dissemin. in str: 2% | |
| 171.0 | 203.0 | Bio Granodiorite | lgy-green m-c.g. tanish | granitic | moderate pervasion potassic alteration with ser and clay alteration along fractures and within zones of shearing. | weak, very thin (< 2.5 cm) veining with thin (.5-2 cm) alteration salvages. | From 171-182 m core highly fract. & crushed & sheared zones: 182.0-182.3 & 187.0-187.3, 196.2-196.5, 197.2-197.6. vein freq: 2 veins per m. vein orientations: 90°, 60°, 70°; & fans at 20°-30°. | |

DRILL LOG

HOLE NO. 97-4

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | COLLAR ELEV.: |
| | | | | | NORTHING: |
| | | | | | EASTING: |
| | | | | | AZIMUTH: |
| | | | | | DEPTH: |
| HOLE TYPE | | | | CORE SIZE: | DATE LOGGED: |
| | | | | | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS (lithology, alteration, mineralization, structure, age relations, etc.) |
|----------|-------|------------------|---------|------------------------------------|---|---|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | |
| 203.0 | 390.7 | Bio Granodiorite | dkgn-pk | m-c.g. granitic equigranular | Pervasive moderate Potassic alt'n with generally narrow chlor-ser selvages on vein margins. From 246m, veining gradually becoming stronger w. wider alteration (chlor-ser) margins Zone of fracturing and shearing from 283 to 316.5m with clay alt'n of feldspars and clay concentrated along fractures. | Chlor-ser-py-qtz veining generally narrow veinlets narrow alt'n selvages pyrite content: ~2% From 2182-219.6m 40cm section of highly alt'n qtz-chlor-py zone with qtz-veining up to 5cm wide. Overall pyrite for this zone est. 15% From 280.5-282.8, a qtz-py-vein @ 20% alt'n with est. 5% pyrite with margins highly alt'n qtz-chlor-ser-py most py confined to veinlets w. some dissim. Increase in Vein density From 286.5 to 287m. From 280.6 to 282.8, zone of chlor-ser-qtz alt'n above w. qtz veining @ 30% alt'n vein. is up to 5cm wide w. 5% py | Relatively good core, up to 50 cm pieces. Fract. @ 40-45' and 60-70' From 207-223m: Vein freq: 4 to 5 per m. Vein Orientations: 20-30°, 40°, and 70-80° From 223-246m: Vein freq: 3 to 4 per m. Vein orientation: 20-30°, 40°, 60° and 70-80° Pyrite: 2% From: 246m-283m: Vein Freq: 5 to 7 per m. Vein Orientation: 20°, 40°, 60-70° Pyrite: 3% MAJOR SHEAR: 276.8-277.0; muddy shear zone, striking 90° ECL. From 283-301m: Vein freq. drops to 3 per m. Vein orientation: 10-30°, 40°, and 60-70° (40° + 60-70° are most dominant directions) Pyrite: 2% MAJOR ZONE OF FRACTURING: 283 To 316.5m. From 301-316.5: Vein freq.: 2 per m. Vein Orientations: 30-40° and 70-80° Pyrite: 1% |

DRILL LOG

HOLE NO. 97-4

| | | | | | | |
|--------------|-----------------|--------|-----------|---------|-----------------|--------------|
| DRILLING CO. | LOCATION SKETCH | DEPTH | TESTS | | DATE STARTED: | PROJECT: |
| | | | DIP ANGLE | AZIMUTH | DATE COMPLETED: | |
| | | COLLAR | | | COLLAR ELEV.: | N.T.S.: |
| | | | | | NORTHING: | LOCATION: |
| | | | | | EASTING: | |
| | | | | | AZIMUTH: | |
| | | | | | DEPTH: | DATE LOGGED: |
| HOLE TYPE | | | | | CORE SIZE: | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS (lithology, alteration, mineralization, structure, age relations, etc.) |
|----------|----|--------------|-------|---------|------------|---|---|
| FROM | TO | ROCK TYPE | COLOR | TEXTURE | | | |
| | | | | | | TRACE Molybdenite at 377.2m | * Veinlets with moly ore late stage cutting |
| | | | | | | 1/2m qtz-py vein @ 20° S CA. | Chlor-ser-py-qtz veins. From 316.5 - 321.0 |
| | | | | | | TRACE Molybdenite at 392.2m | Vein freq. 5 per m. |
| | | | | | | and at 300m in 1cm qtz-py veinlets at 20-30° S CA. | Vein Orientation: 30°, 45°, and 60-70° Pyrite: 3% |
| | | | | | | From 316.5 to 321.0 | MAJOR SHEAR ZONE: 316.5 E 317.8; highly sheared and well zone; shearing at 45° S CA. |
| | | | | | | veining increases | From 321.0 - 327.8 |
| | | | | | | 1/2 strong chlor-ser-py-qtz vein system. | Vein freq. drops to 3 per m. |
| | | | | | | From 283.0 - 382.0 | Vein Orientation: 20°, 30-40°, 70-80°; a few at 50-60° Pyrite: 1.5-2% |
| | | | | | | veining becomes weaker, thinner veins and vein margins - less pyrite. | From 327.8 - 382.0 |
| | | | | | | * At 377.5 white qtz veins, 5cm wide w. very little py cut outer | Vein freq.: Av. 4 (locally up to 7) per m. Vein Orientation: 40°, 60-70°, 80° (a few at 0-20°) Pyrite: 2% |
| | | | | | | chlor ser py qtz veins. | From 382.0 - 390.7 |
| | | | | | | From 382.0 - 390.7 veining becoming stronger, more pyrite up to 5cm qtz-py veins. | Vein freq: 4 to 6 per m. Vein Orientation: 40°, 60°, 70-80° Pyrite: 2.5-3% |
| | | | | | | Trace sphalerite at 385.2 | |
| | | | | | | in qtz-py veinlets @ 60° S CA. | |
| 390.7 | | END OF HOLE. | | | | | |

DRILL LOG

HOLE NO. 97-5

| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: | |
|----------------------------------|-----------------|-----------------|-----------|-----------------|------------------------------|------------------------------------|
| | | DEPTH | DIP ANGLE | AZIMUTH | | |
| BRAUPRE DIAMOND DRILLING LTD. | | COLLAR | -55° | 0° | OCT 15, 1997 | MUNRO |
| | | 61 m (200') | -52° | | DATE COMPLETED: OCT 20, 1997 | N.T.S.: |
| | | 122 m (400') | -52° | | COLLAR ELEV.: | LOCATION: |
| | | 182.9 m (600') | -49° | | NORTHING: 99700N | |
| | | 243.8 m (800') | -48° | | EASTING: 14700W | |
| | | 304.8 m (1000') | -46° | | AZIMUTH: 0° | |
| HOLE TYPE | | 365.7 m (1200') | -46° | | DEPTH: 416.7 m | DATE LOGGED: OCT 16/97 - OCT 20/97 |
| | | | | CORE SIZE: N.D. | LOGGED BY: H. L. KING | |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|---------------|---------|---|---|---|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 0 | 25.6 | CASING | GLACIAL | TILL | Limstone - Ac. | qtz-py-chlor-ser veining | From 25.6-45 m |
| 25.6 | 195.6 | Bio Granulite | gg-grn | muc-g. gneiss equigranular | staining along fractures and veinlets of qtz-py | relatively strong veining From start of core | Vein freq: 3.5 per m (av. 4/m) Vein orientation: 10°, 20°, 40°, 60°, 70° & 80° (all must common) |
| | | | | Fold, por. all't to slaty. Pyritic veinlets oxidized to 31 m. | Fold, por. all't to slaty. Pyritic veinlets oxidized to 31 m. | veining up to 1 cm wide with chlor-ser all't | Pyrite: 2% to 3% From 45 m - 72 m |
| | | | | Pervasive potassic all't & sericitic all't with pronounced chlor-ser vein selvages | Pervasive potassic all't & sericitic all't with pronounced chlor-ser vein selvages | A strong qtz-py vein at 16' G.C. at 39.6 m - 39.8 m and at 41.6 - 42.6 m. | Vein orientation: 20°, 30°, 40°, 60°, 70° & 80° (30-40° & 70-80° vein sets most common) Pyrite: 3% |
| | | | | | | veining becoming stronger From 45 m - up to 58 m | From 72 m to 100 m note increase in vein density Vein freq: 6.7 per m. |
| | | | | | veining along core to 20' G.C. has strong ser-chlor-qtz all't selvages especially From 94.6 m to 153 m. | veining along core to 20' G.C. has strong ser-chlor-qtz all't selvages especially From 94.6 to 95.5 | Vein orientation: 20-30°, 70-80°, & few @ 60° to 60° Pyrite: 2 to 4% MAJOR SHEAR ZONE: 78 m to 79.2 m; shearing @ 40° to 60° MAJOR SHEAR ZONE: 88.5 to 89.2 & From 92.0 - 99.5 m muddy crushed zone w. shearing @ 30° to 40° |
| | | | | Selvages consist of chlor-ser-qtz and dissim. py; locally up to 5%. | Selvages consist of chlor-ser-qtz and dissim. py; locally up to 5%. | Also vfy. molybdenite along qtz vein at 90' G.C. From 94.6 - 95.5 molybdenite (vfy) from 113.2 | From 100 to 153 m Vein density drops to 4.5 per m. Vein orientation: 10°-20°, 30°-40°, 70°-80°; also @ 50° & 60° Pyrite: 2 to 3% locally up to 5% * STRONG PY veining @ 10° to 20° G.C. MAJOR SHEAR ZONE: 113.4 - 114.0 (muddy) @ 20° G.C. |
| | | | | | | to 113.4 along qtz-py vein, part of major shear zone. (vein at 11°-20° G.C.) | |

DRILL LOG

HOLE NO. 97-5

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | DATE COMPLETED: |
| | | COLLAR | | | LOCATION: |
| | | | | NORTHING: | |
| | | | | EASTING: | |
| | | | | AZIMUTH: | |
| | | | | DEPTH: | DATE LOGGED: |
| HOLE TYPE | | | | CORE SIZE: | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|---|------------|--|--|--|--|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| | 153m | vein | | | | Trace magnetite at 119.0 along a 2cm vein (qtz-py vein) at 40° D.C.I. | MATOR SHEAR ZONE: 145.9 to 177.7; major crushed/sheared zone shearing @ 30° to C.A. From 153-159m: vein density: 8 per m. vein orientation: 30°-40° and 60°-70° Pyrite: 3% |
| | | | | | | | From 159-179m: vein density: 2 to 4 per m. vein orientation: 30°-40° and 60°-70° (a few at 20° and 50°) Fractures: 30°, 40°, 70°-80° Pyrite: 2% |
| | | | | | | Strong qtz-py veining from 179-190m up to 1cm veins w. up to 50% py; vein orientations @ 20°, 40° & 60°-70° | From 179-190m: vein freq: 5 per m. vein orientation: 20°, 40°, 60°, 70°-80° Pyrite: 3% |
| | | | | | | | From 190-195.6m: vein density: 3 per m. vein orientation: 40°, 60°-70° Pyrite: 1% to 2% |
| 195.6 | 198.0 | Bio Granodiorite, Highly altered; sheared, f breid. | pink green | shaly & breid, original texture destroyed. | clay-saw-chlor in shaly & breid section | minor qtz-py veining | STRONG SHEAR ZONE @ 189.9 & 189.6; mostly crushed zone at 190° C.A. SFA along SHEAR @ 195.6 to 198.0; shearing @ 30°-40° C.A. |

DRILL LOG

HOLE NO. 97-5

| | | | | | | |
|--------------|-----------------|--------|-----------|---------|-----------------|--------------|
| DRILLING CO. | LOCATION SKETCH | DEPTH | TESTS | | DATE STARTED: | PROJECT: |
| | | | DIP ANGLE | AZIMUTH | | |
| | | COLLAR | | | DATE COMPLETED: | N.T.S.: |
| | | | | | COLLAR ELEV.: | LOCATION: |
| | | | | | NORTHING: | |
| | | | | | EASTING: | |
| | | | | | AZIMUTH: | |
| | | | | | DEPTH: | DATE LOGGED: |
| HOLE TYPE | | | | | CORE SIZE: | LOGGED BY: |

| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|-------------------------------------|-------------|-----------------|---|---|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| 198.0 | 207.8 | Big Granodiorite | clay-pink | mg. granitic | Perovskite pink potassic alteration | Weak qtz-act veining | From 198.0 - 207.8 Vein freq: 3 per m. Vein orientation: 20°, 30°, 40°, 60° Pyrite: 2% |
| 207.8 | 210.0 | Big Granodiorite Highly Altered. | slate green | breciated | original features replaced by bvd chlor-ser-qtz | | |
| 210.0 | 217.6 | Big Granodiorite | clay-pink | mg. granitic | Perovskite moderate alteration | weak chlor-ser-py, qtz veining from 210.0-222 | From 210 - 222: Vein freq: 2 per m. Vein Orientation: 20°, 30°, 40° and 70°-80° Pyrite: 1% |
| | | | | | | From 222-244m strong chlor-ser-qtz-py veining - strong 10°-20° & 60° vein set. | From 222-244m: Vein freq: 4-5 per m. Orientations: 10°-20°, 40°, 50°-60°, 70°-80° Pyrite: 2% |
| | | | | | Trace molybdenite in qtz-py veins @ 91° & 80° & 60° | | From 244 - 249 Vein freq: 3 per m. Vein orientations: 20°, 40°-50°, & 70° Pyrite: 1% |
| | | | | | strong veining from 249-260m. | | From 249-260m: Vein freq: 4-5/m. Vein orientation: 10°-20°, 30°-40°, 60°, 70° Pyrite: 2 & 3% |
| | | | | | Minor molybdenite smeared along a 40° E.N. vein at 257.6m. and along a 10° E.N. vein (6m wide) from 257.7 & 257.7. | | |

DRILL LOG

HOLE NO. 97-5

| | | | | | |
|--------------|-----------------|--------|-----------|---------------|-----------------|
| DRILLING CO. | LOCATION SKETCH | TESTS | | DATE STARTED: | PROJECT: |
| | | DEPTH | DIP ANGLE | AZIMUTH | |
| | | COLLAR | | | DATE COMPLETED: |
| | | | | | COLLAR ELEV.: |
| | | | | | NORTHING: |
| | | | | | EASTING: |
| | | | | | AZIMUTH: |
| | | | | | DEPTH: |
| | | | | | DATE LOGGED: |
| HOLE TYPE | | | | CORE SIZE: | LOGGED BY: |

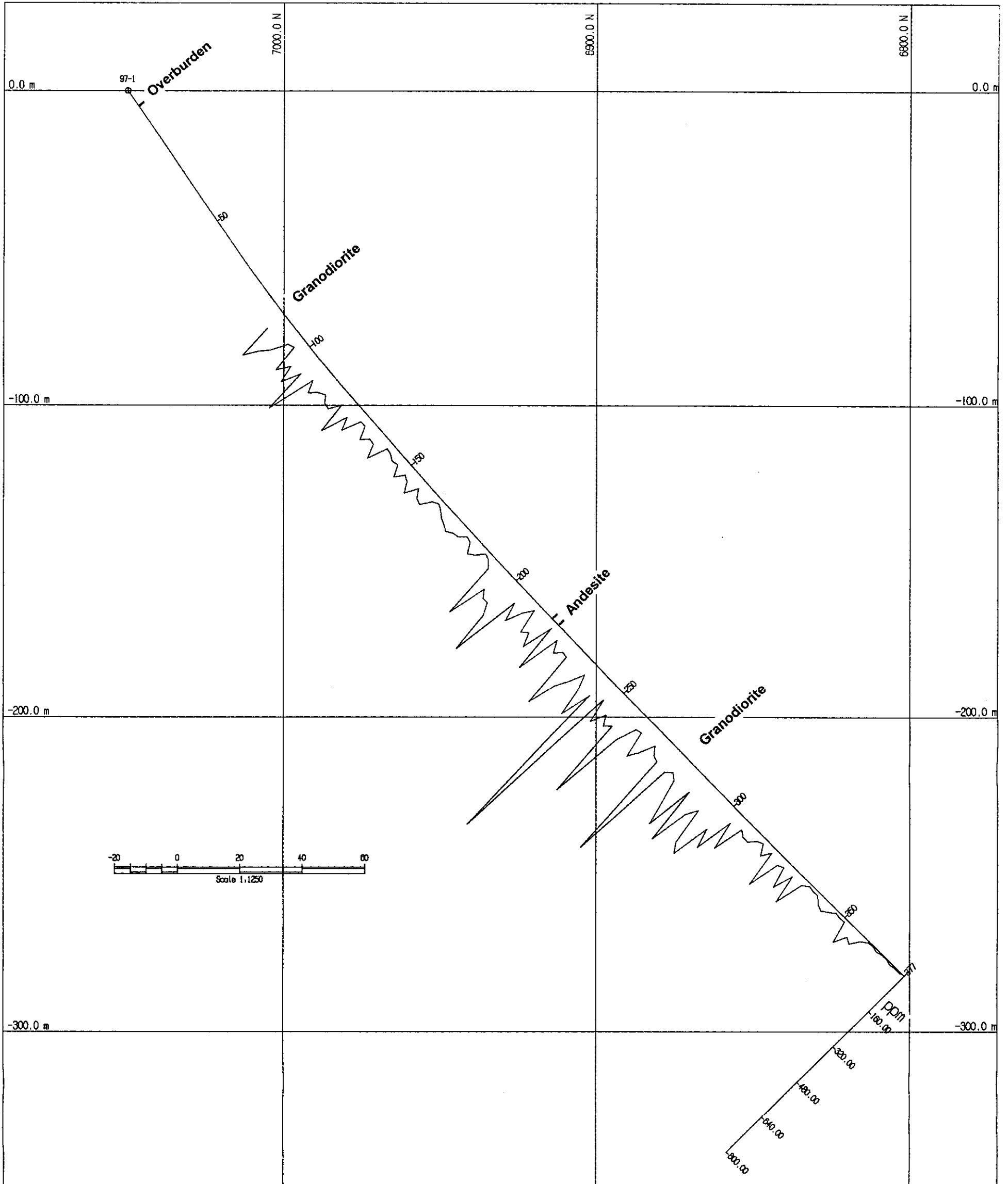
| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS |
|----------|-------|------------------|------------|------------|---|---|---|
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) |
| | | | | | Clay alteration along fractures from 224m to 287m | Trace molybdenite along 20 to 60 veins (1cm wide) @ 262m | From 260-276m: Vein frequency: 2.62 per m. Vein Orientation: 20°, 30°, 40-50°, 70° Changing to 30-40°, 50-60°, & 70-80° from 265-276m Pyrite: 1% - 2% |
| | | | | | | Weak veining generally with several strong 10 to 60 veins (95 py veins) | From 276-287m: Strong shearing at 10° to 30°, changing to 30-40° from 281 to 287m. Vein freq: 2 per m. Vein Orientation: 10-20° and 0°, 30-40°, 60-70° from 281-287m. Pyrite: 1% to 2% |
| | | | | | | | From 287 to 292m: Vein freq: 3 per m. Vein Orientation: 10°, 30°, 40° |
| | | | | | | | SHEAR ZONE & CRUSHED ZONE from 288.8 to 290.7 |
| | | | | | | | From 292 to 317.6m: Veining becoming stronger w. increase in pyrite |
| | | | | | | | From 292-317.6m: Vein freq: 5.66 per m. Vein Orientation: 10-20°, 30 to 40°, 60-70°, 80° Pyrite: 2% to 3% |
| 317.6 | 329.0 | Bio Granodiorite | clay-green | brecciated | muddy, crushed zone clay-sericite alt'n. | | A few pink granite veins (5cm to 10cm wide) from 308-316m. SHEARING @ 30-40°, about 20% lost core. MAJOR FAULT: 317.6 to 321m, muddy crushed zone. |

DRILL LOG

HOLE NO. 97-5

| DRILLING CO. | | LOCATION SKETCH | | | TESTS | | DATE STARTED: | | PROJECT: |
|--------------|-------|----------------------|------------|-------------|--|---|--|--|--------------|
| | | DEPTH | DIP ANGLE | AZIMUTH | | | DATE COMPLETED: | | N.T.S.: |
| | | COLLAR | | | | | COLLAR ELEV.: | | LOCATION: |
| | | | | | | | NORTHING: | | |
| | | | | | | | EASTING: | | |
| | | | | | | | AZIMUTH: | | |
| | | | | | | | DEPTH: | | DATE LOGGED: |
| HOLE TYPE | | | | | | | CORE SIZE: | | LOGGED BY: |
| INTERVAL | | LITHOLOGY | | | ALTERATION | MINERALIZATION | REMARKS | | |
| FROM | TO | ROCK TYPE | COLOUR | TEXTURE | | | (lithology, alteration, mineralization, structure, age relations, etc.) | | |
| 329.0 | 406.0 | Bin Grandiorite | light pink | granitic | Depressive potassic alt'n: and chlor-ser alt'n along vein margins | chlor-ser-qtz-py veining | From 329 - 341: vein freq: 3 per m. vein orientation: 20°-30°, 40°, 60°-70° Pyrite: 2% A few pink felsic dikes up to 10cm wide. | | |
| | | | | | From 341-382, minor clay alteration of fold planes and along fractures. | Strong chlor-ser- py-qtz vein system strong 0°-20° E CA. veining from 341-373 | From 341-373 vein freq: 5 per m. vein orientation: 0°-20°, 30°-40°, 60°-70° + 80° Pyrite: 2% MAJOR SHEAR: 356.2 - 356.5; muddy, crushed zone. 361.5 - 362.0; muddy, crushed shear @ 10° E CA. N14W fract f 6x4 L chld zone: 352.2 - 375.7; showing @ 30°-45° MAJOR SHEAR: 373.0 - 375.0; 50% lost core. | | |
| | | | | | | Trace molybdenite @ 372 in a chlor-ser-py- qtz vein @ 40° E CA. From 373 to 406 strong chlor-ser-py-qtz veining. Trace molybdenite @ 378.2 at the contact with a major shear zone. in a 2cm qtz-py-chlor-ser vein (to 10' CA) | From 373-406 vein freq: 7 per m. vein orientation: 10°-20°, 40°, 60°-70° (strongest veining) @ 20°-110° E CA. Pyrite: 3% to 4%. | | |
| 406.0 | 416.7 | 25-Fold sp. Porphyry | light grey | Porphyritic | relatively unaltered. | | Trace molybdenite in 30°-40° CA. qtz-py-chlor-ser vein - subhedral feldspars (2%) var 0.3mm dia. - rounded qtz eyes (10%) var 0.25mm dia. @ 390.2m. | | |
| | 416.7 | END OF HOLE. | | | | | | | |

Appendix 2 Diamond Drill Hole Sections



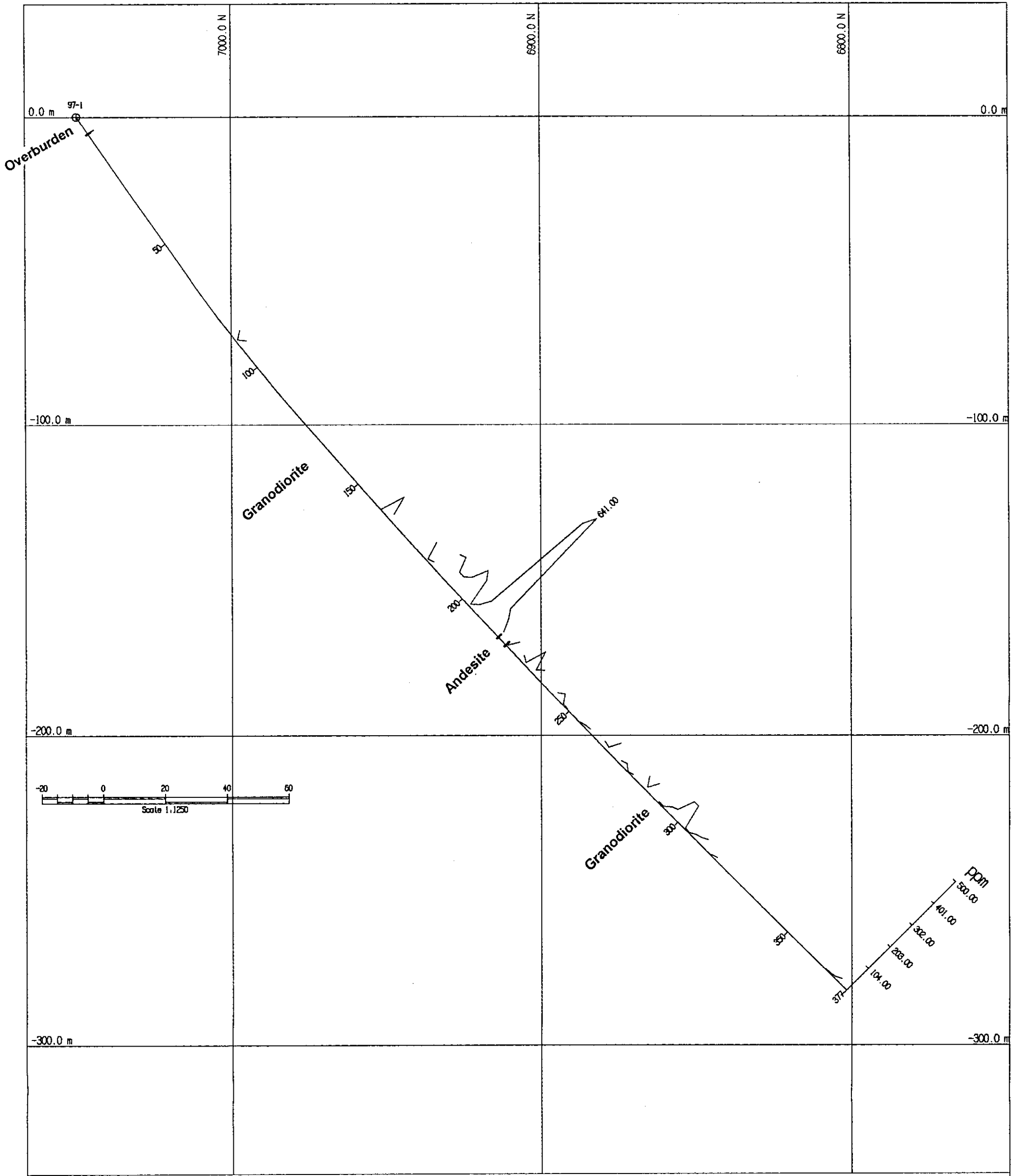
Almaden Resources Corp.

Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-1, Section 400
 Cu Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 10:50:38

Software by GEODATA Services Inc.

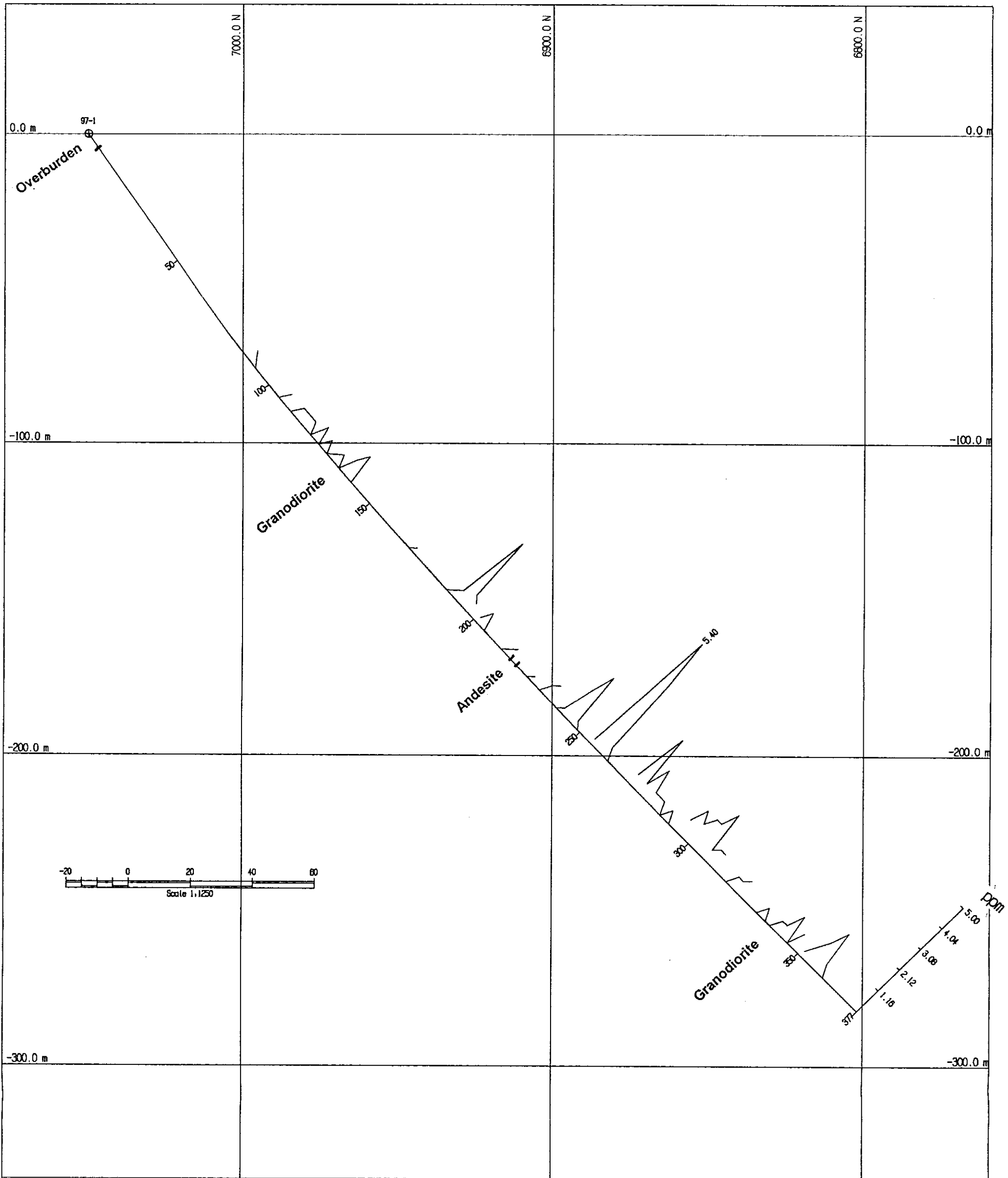


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 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-1, Section 400 w
 Mo Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:22:03

Software by GEOM Services Inc.

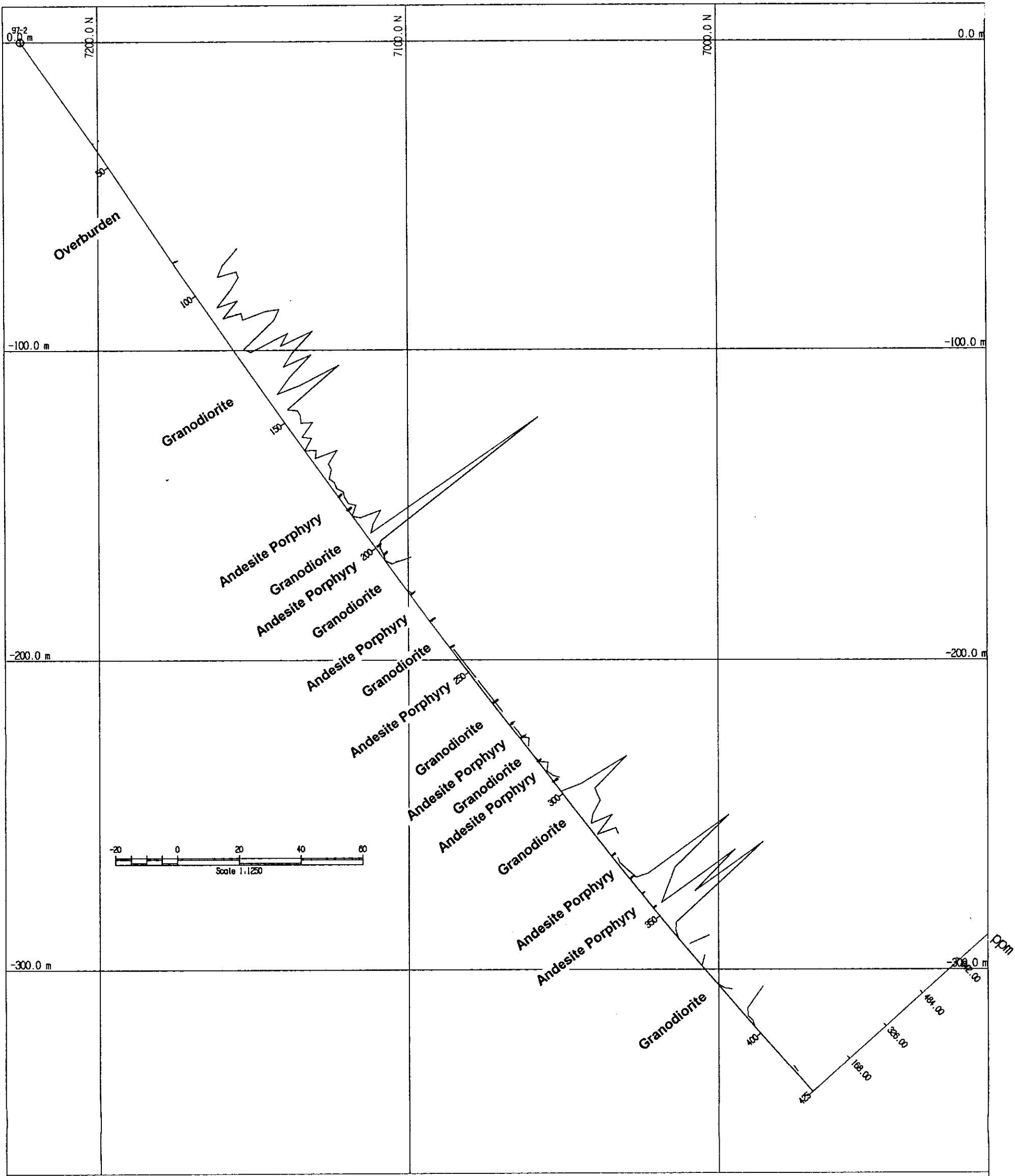


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 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-1, Section 400 W
 Ag Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:03:10

Software by GEMCOM Services Inc.

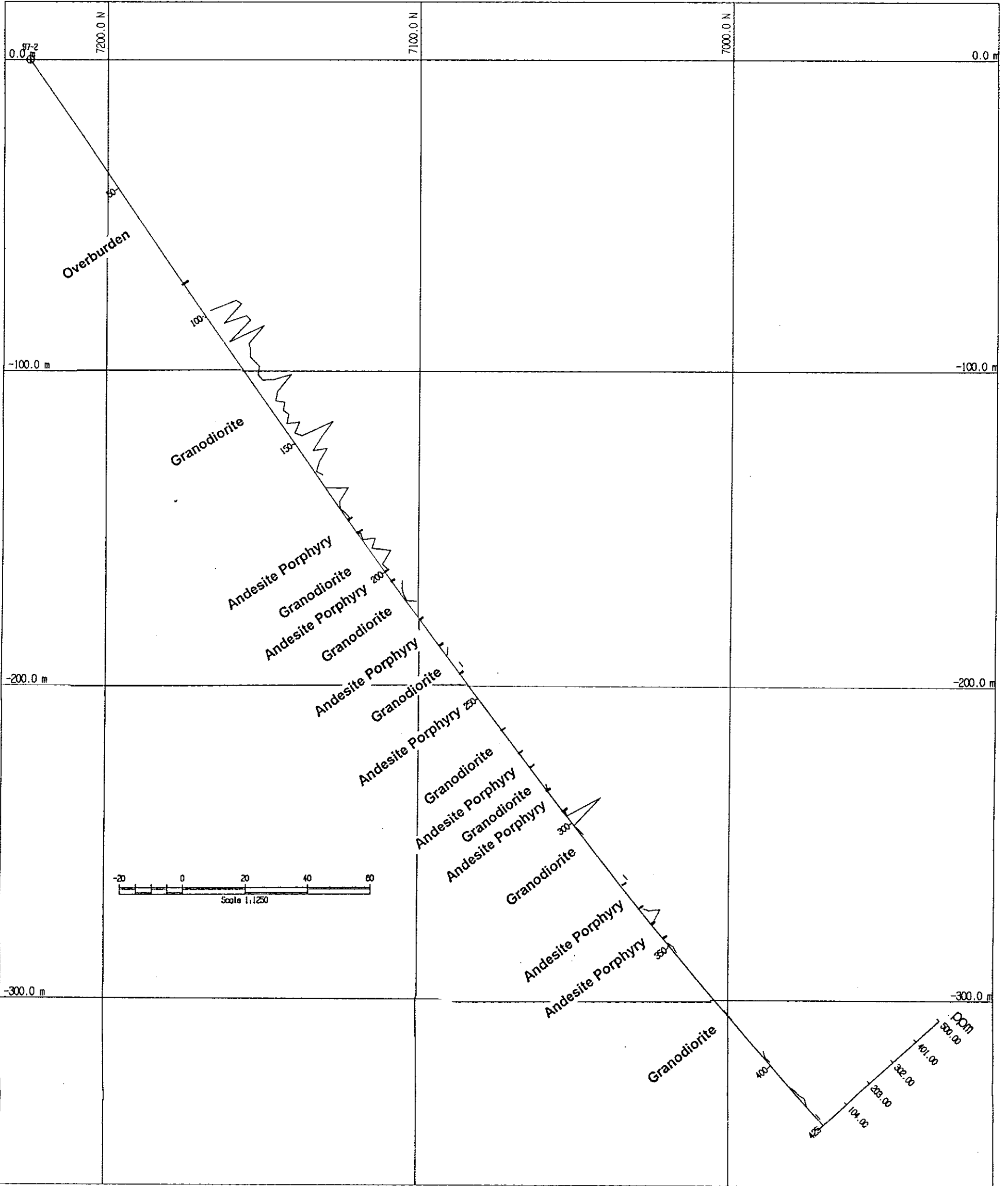


Almaden Resources Corp.
 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-2, Section 700
 Cu Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 10:47:21

Software by GEMM Services Inc.

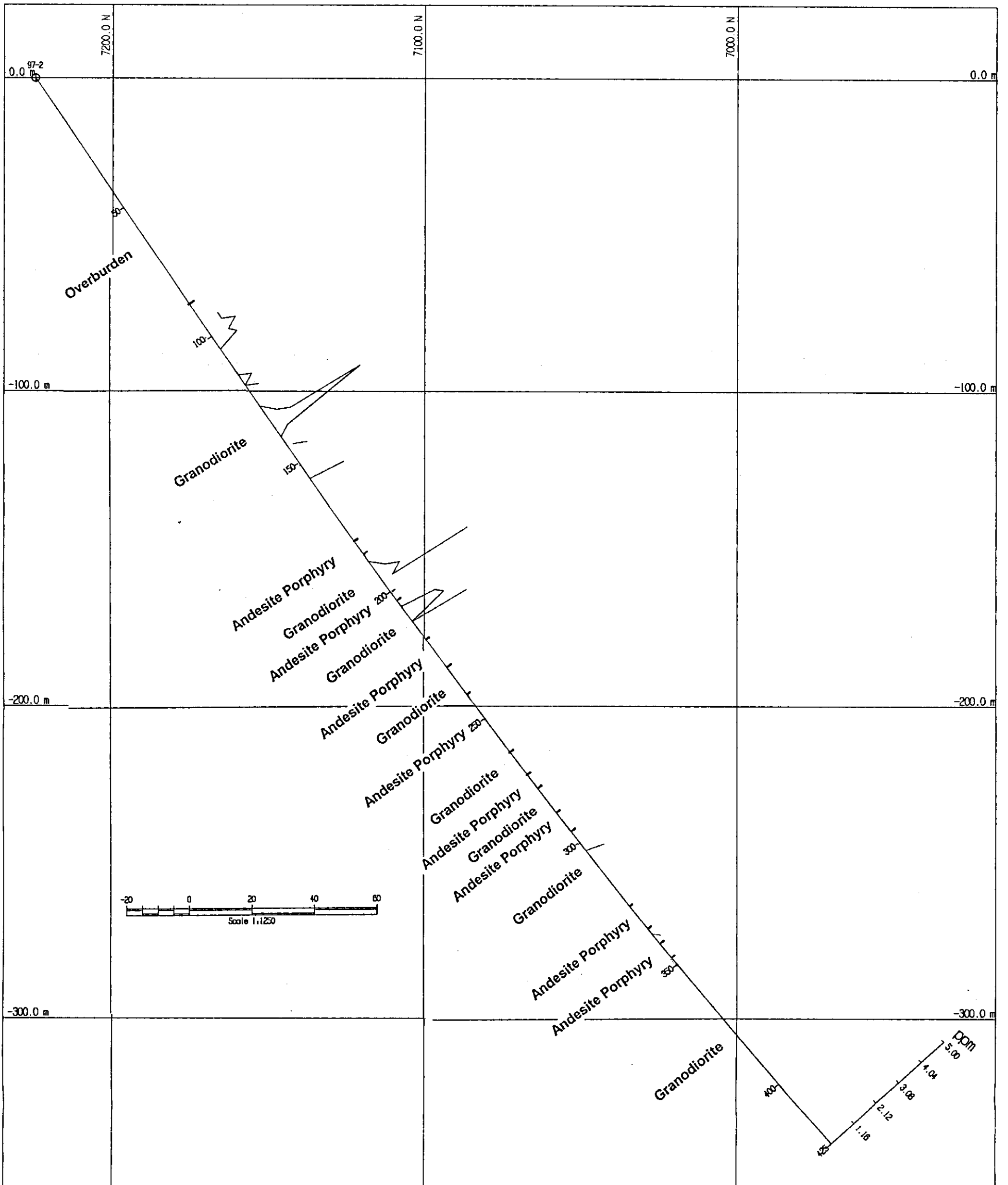


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 689-7644

North-South Section, Looking East
 Drillhole 97-2, Section 700 w
 Mo Geochem Analysis(ppm)

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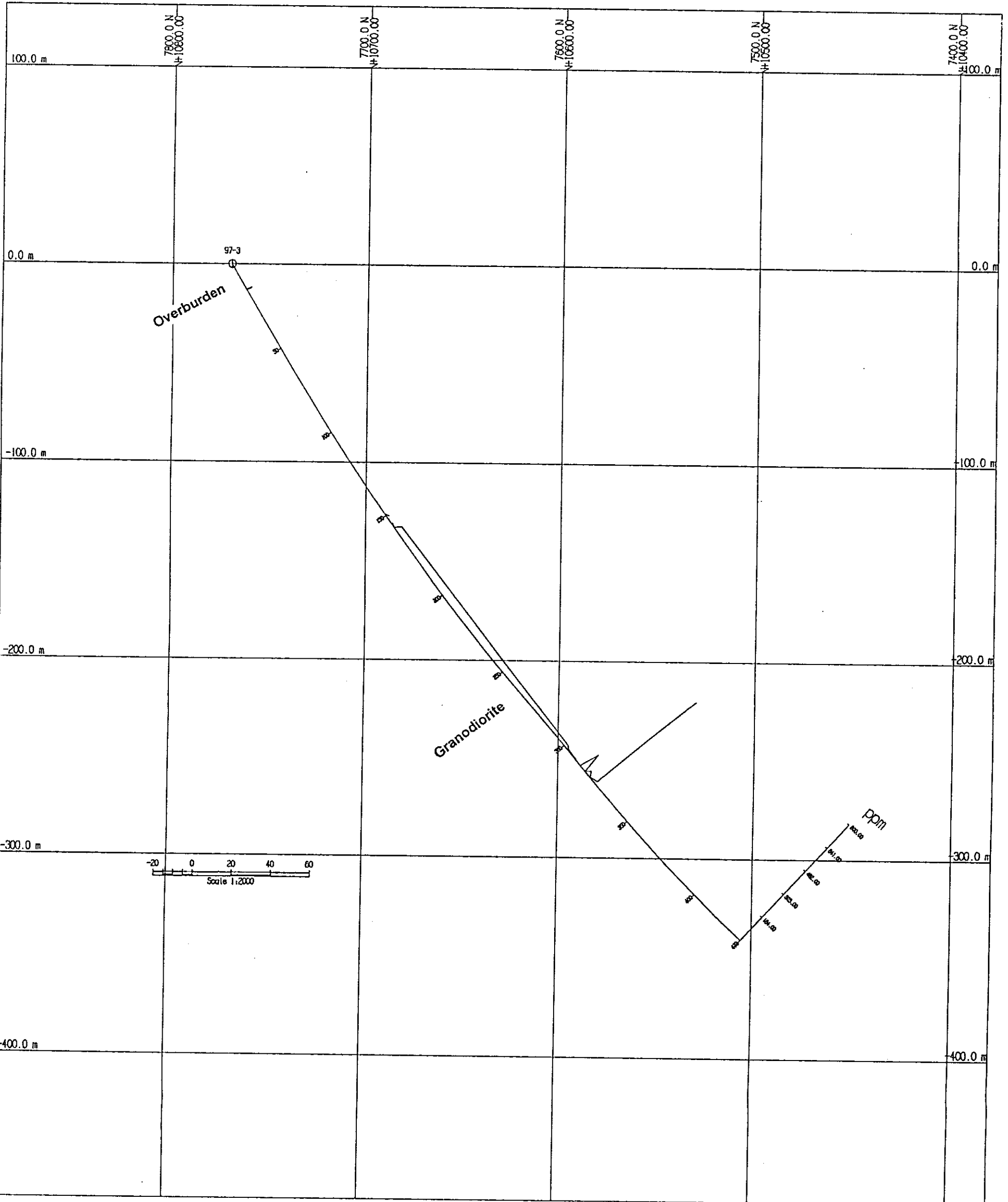
Software by DEMCON Services, Inc.



Almaden Resources Corp.

Vancouver Office
Vancouver, BC
689-7644

North-South Section, Looking East
Drillhole 97-2, Section 700 W
Ag Geochem Analysis(ppm)

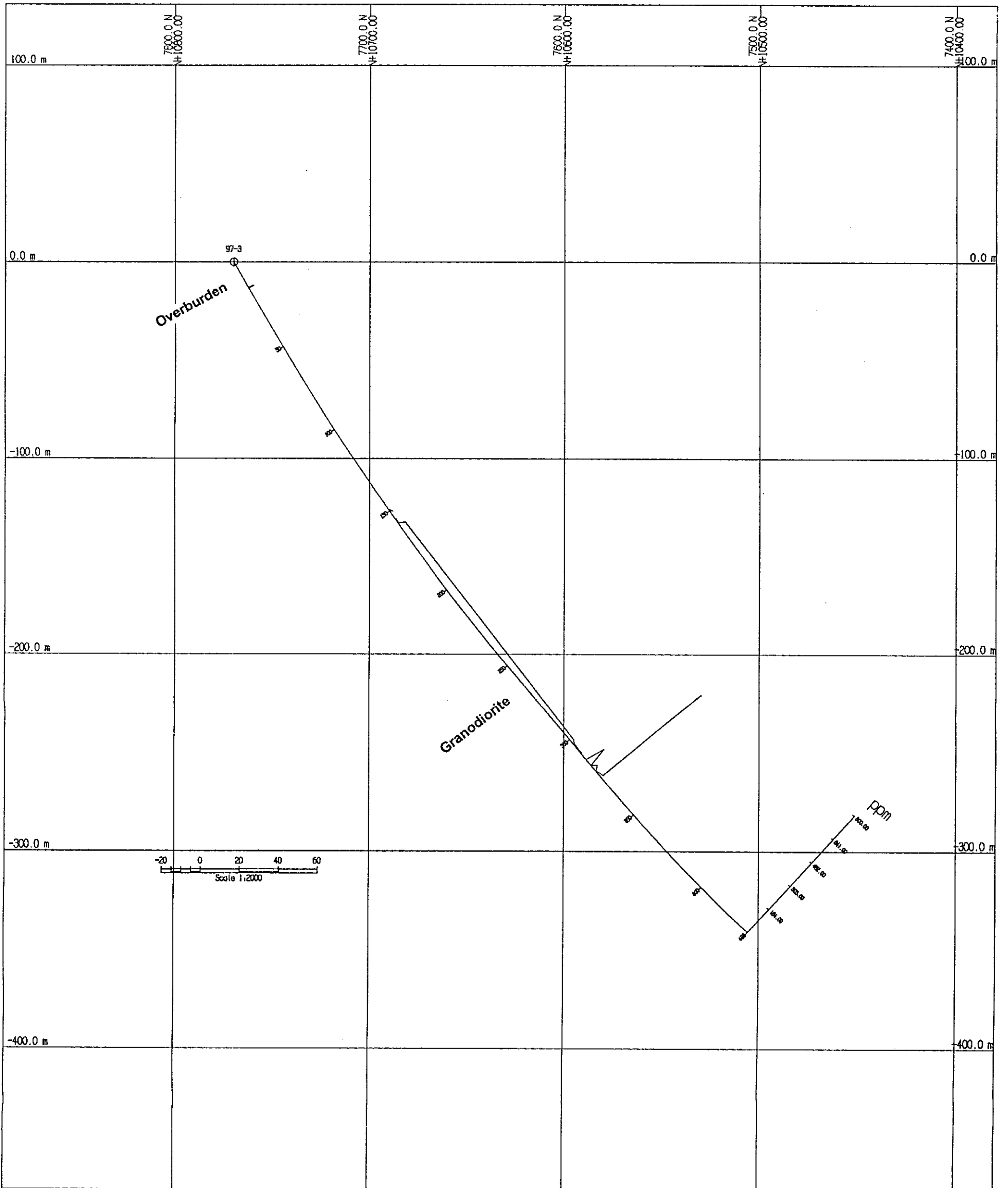


Almaden Resources Corp.
 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-3, Section 2650 W
 Cu Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 10:55:15

Software by GEOTECH Services Inc.

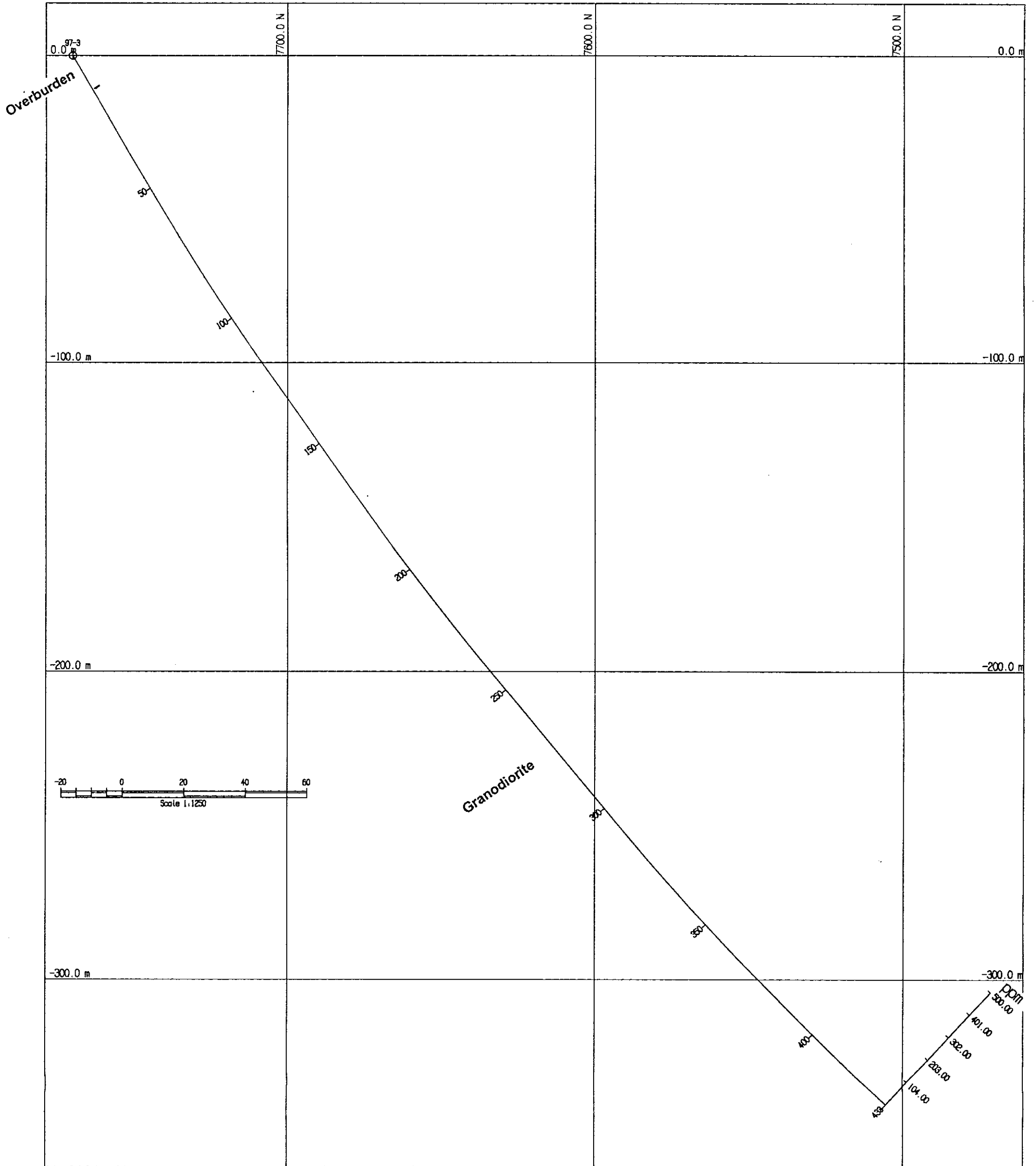


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North-South Section, Looking East
 Drillhole 97-3, Section 2650 W
 Cu Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 10:55:15

Software by: GEDCOH Services Inc.

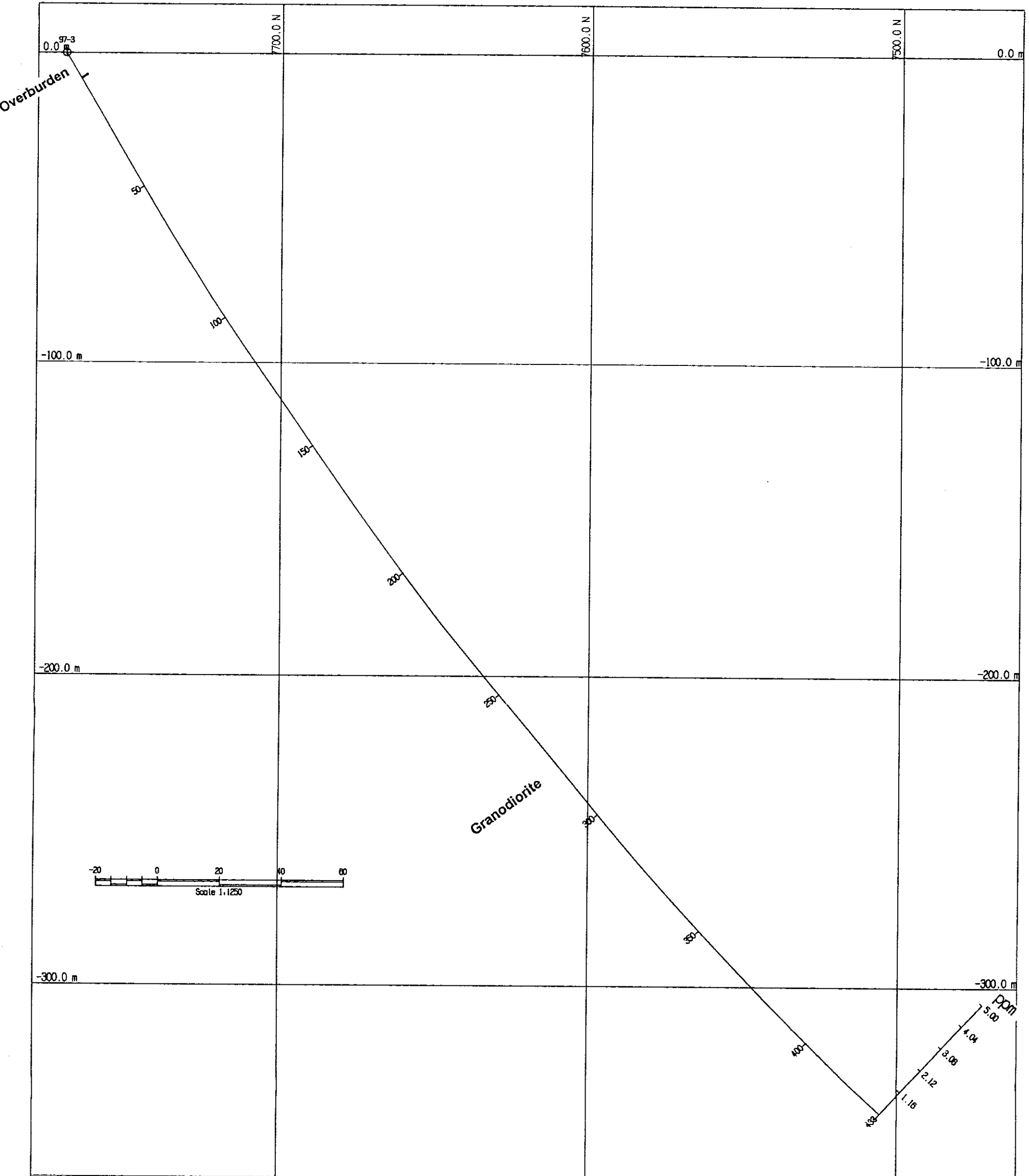


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 Vancouver, BC
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North-South Section, Looking East
 Drillhole 97-3, Section 2650 w
 Mo Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:26:47

Software by GEMCOM Services Inc.

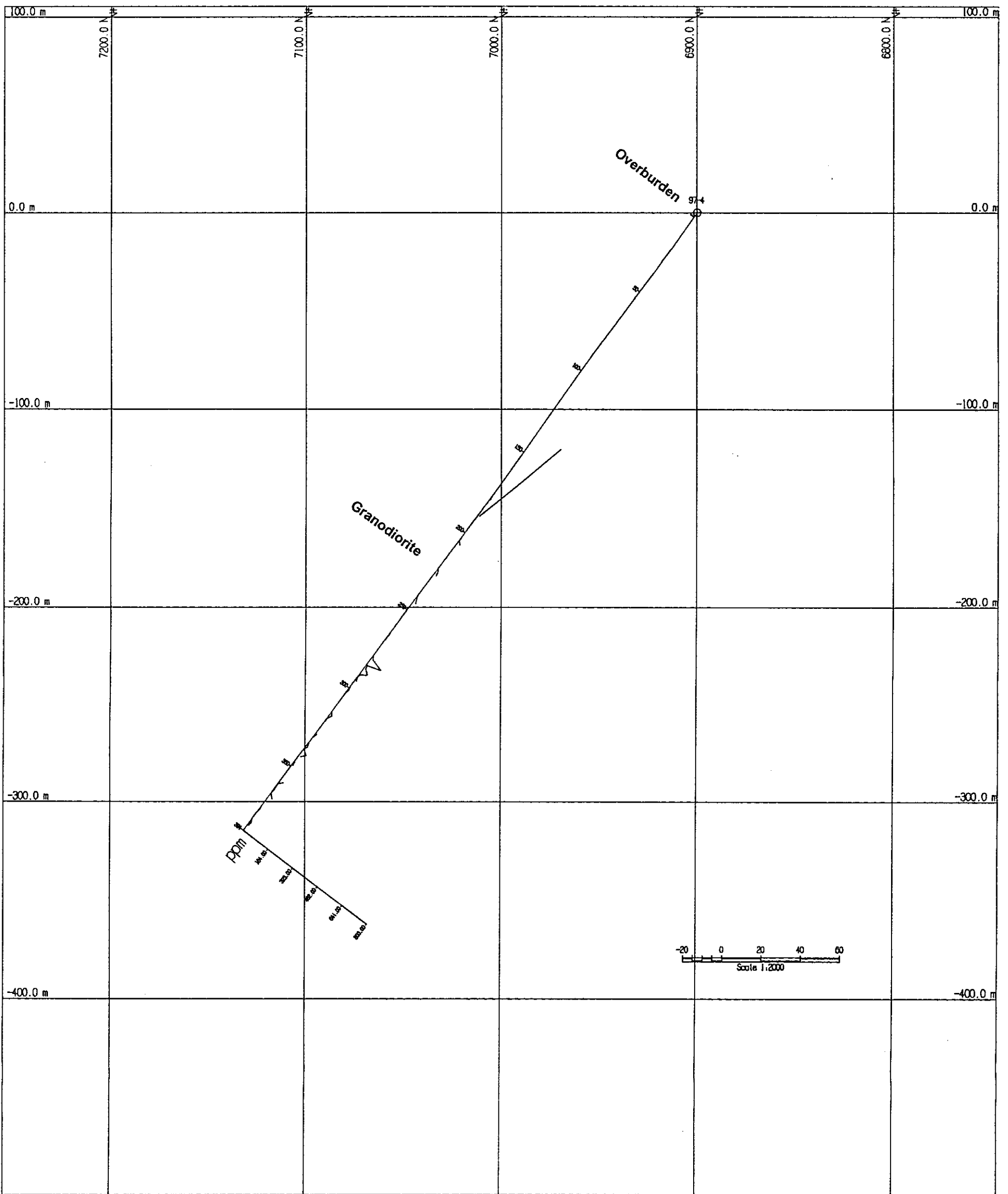


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 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-3, Section 2650 w
 Ag Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:10:10

Software by GEOM Services Inc.

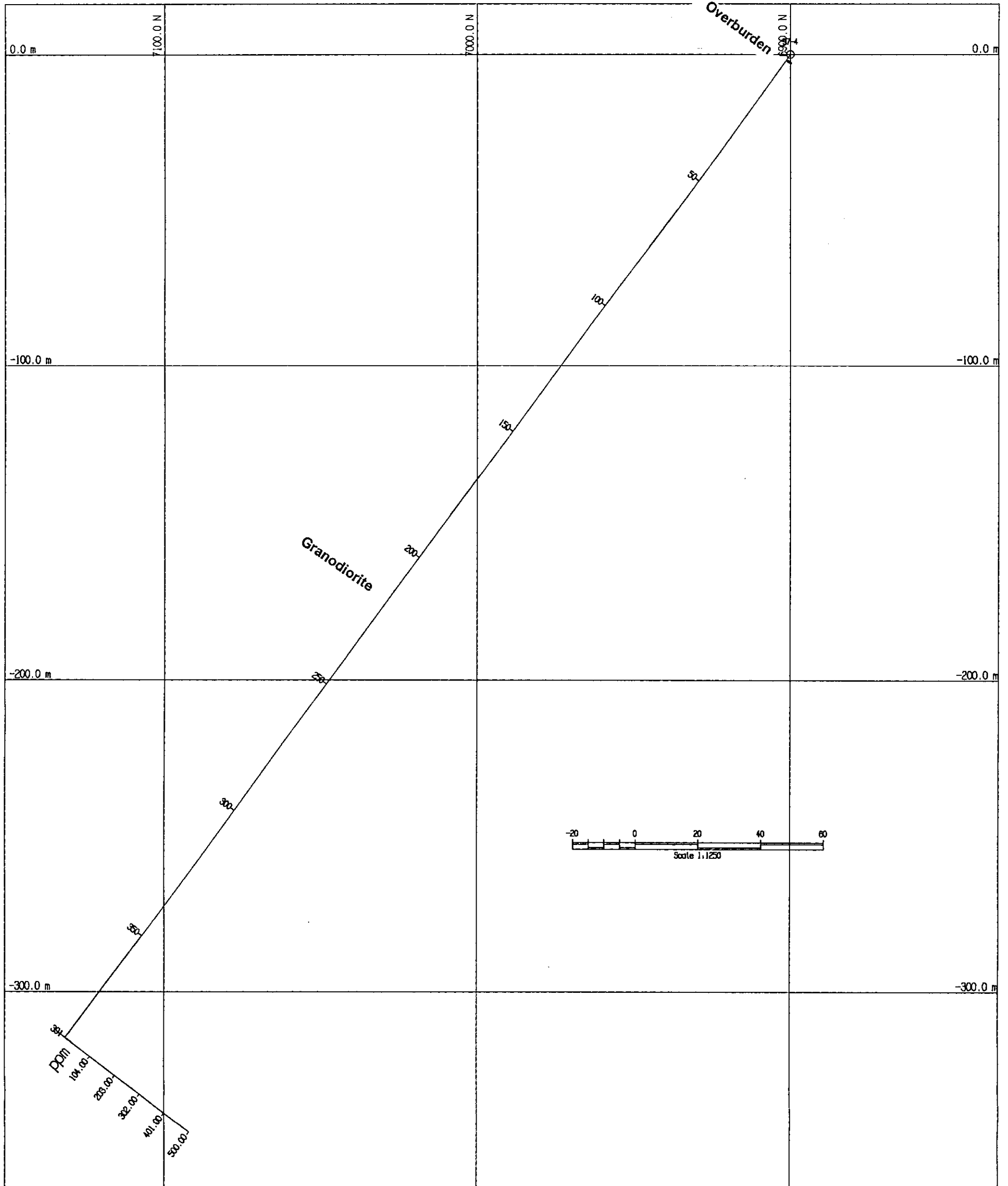


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North-South Section, Looking East
 Drillhole 97-4, Section 2090 W
 Cu Geochem Analysis (ppm)

UNITS , METRES DATE: 97/12/20 TIME: 10:57:31

Software by GEDDI Services Inc.

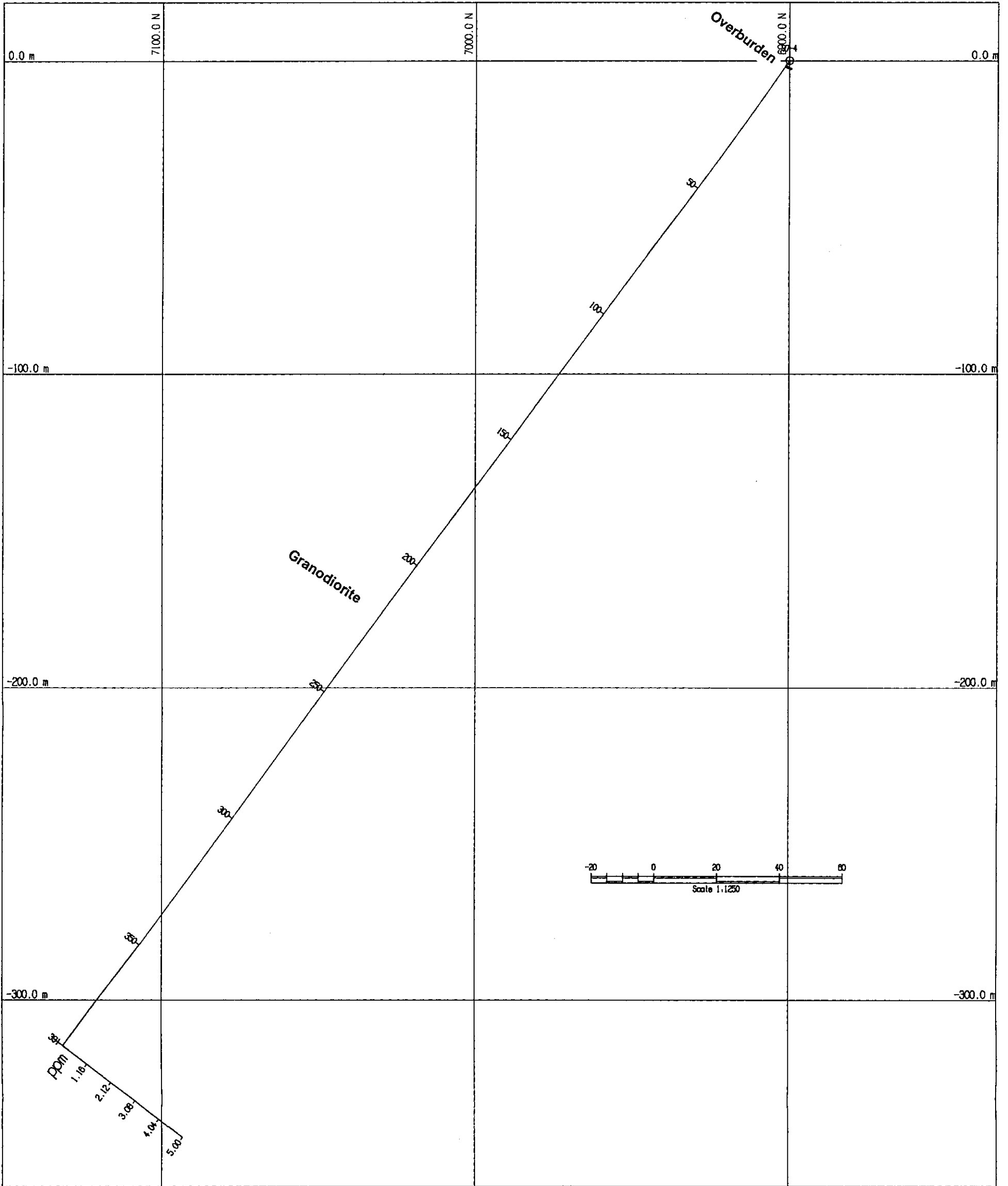


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 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-4, Section 2090 w
 Mo Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:31:38

Software by: BMDM Services Inc.

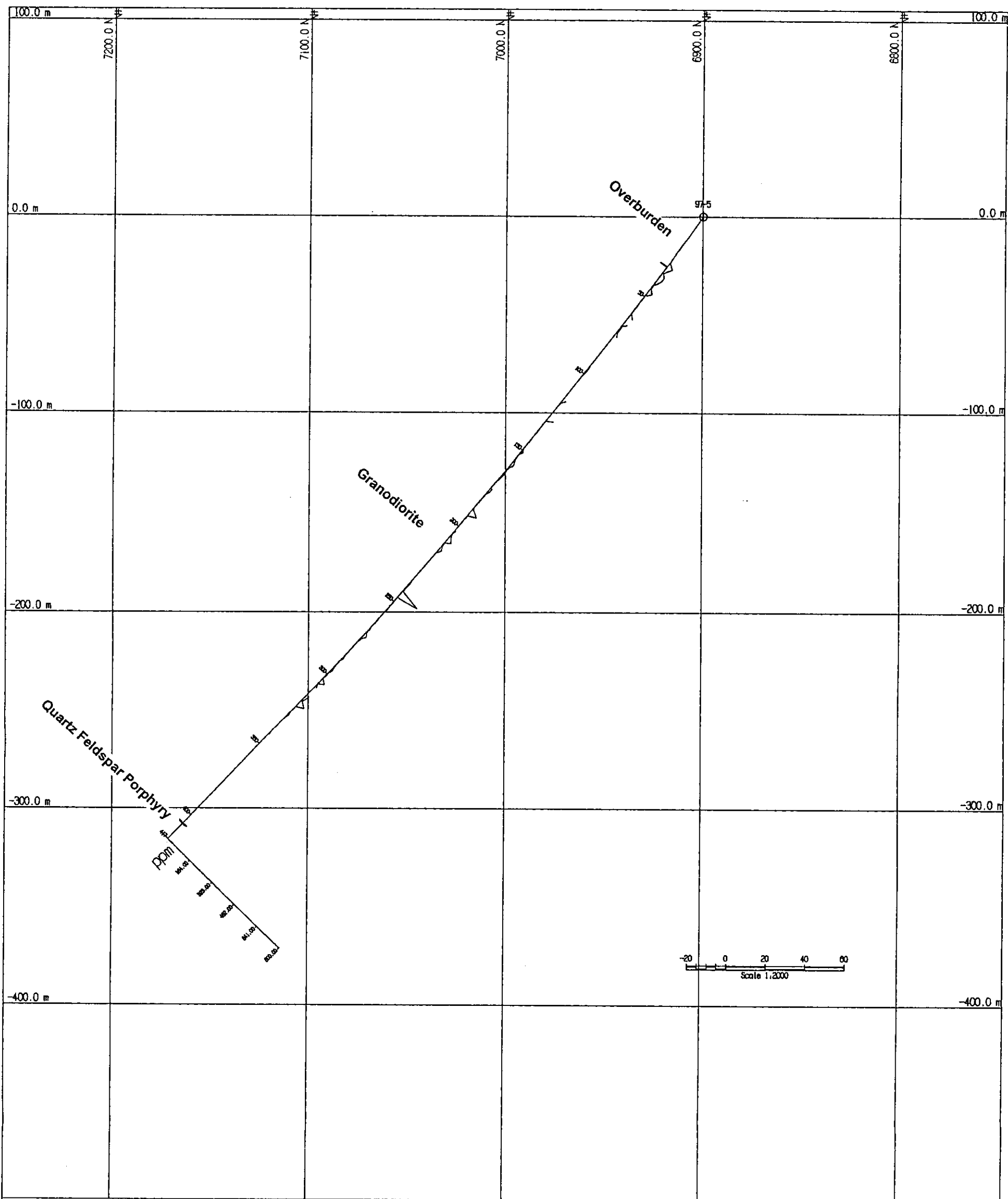


Almaden Resources Corp.
 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-4, Section 2090 w
 Ag Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 11:12:04

Software by GEMCOM Services Inc.

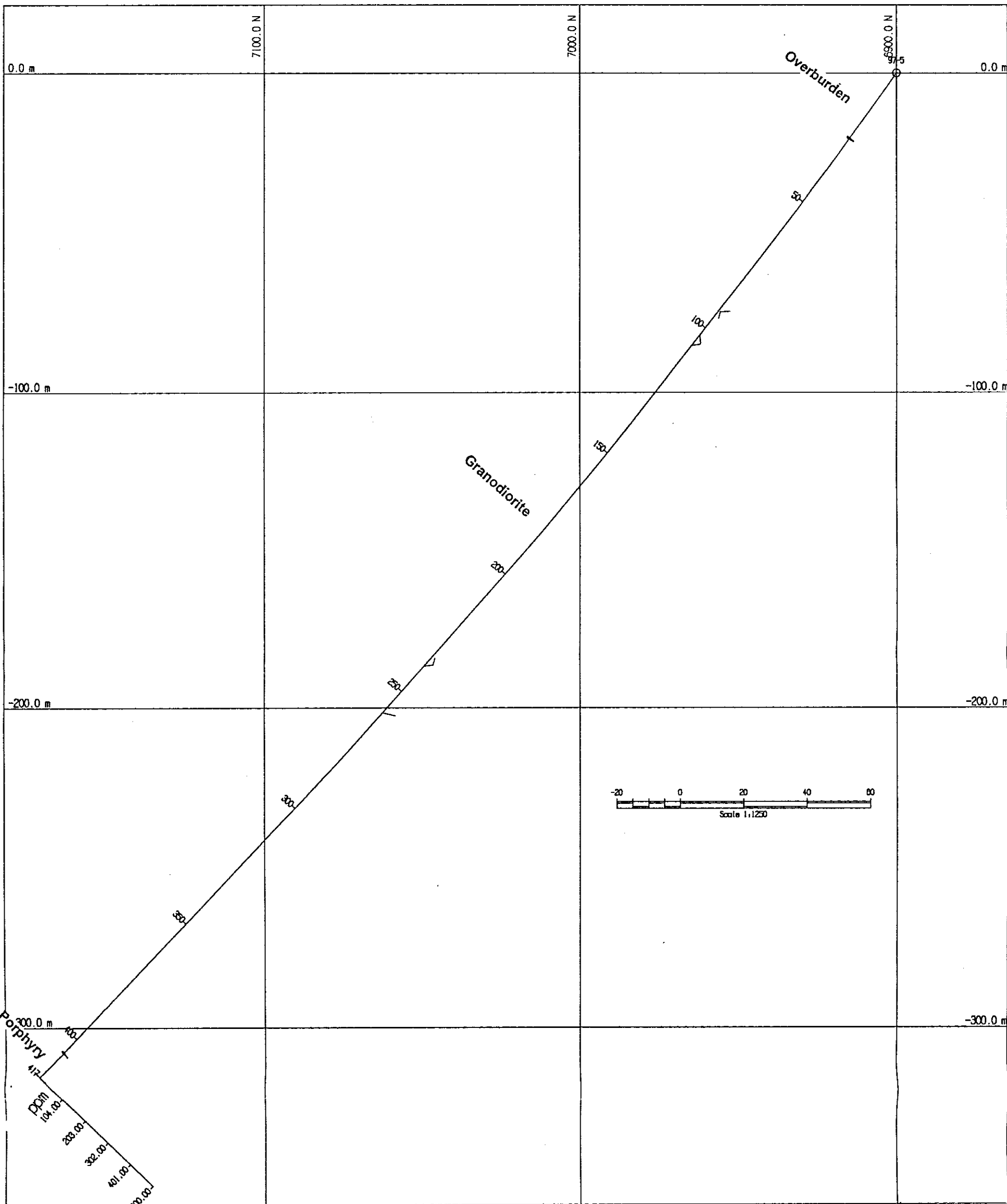


Almaden Resources Corp.
 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-5, Section 1400 W
 Cu Geochem Analysis(ppm)

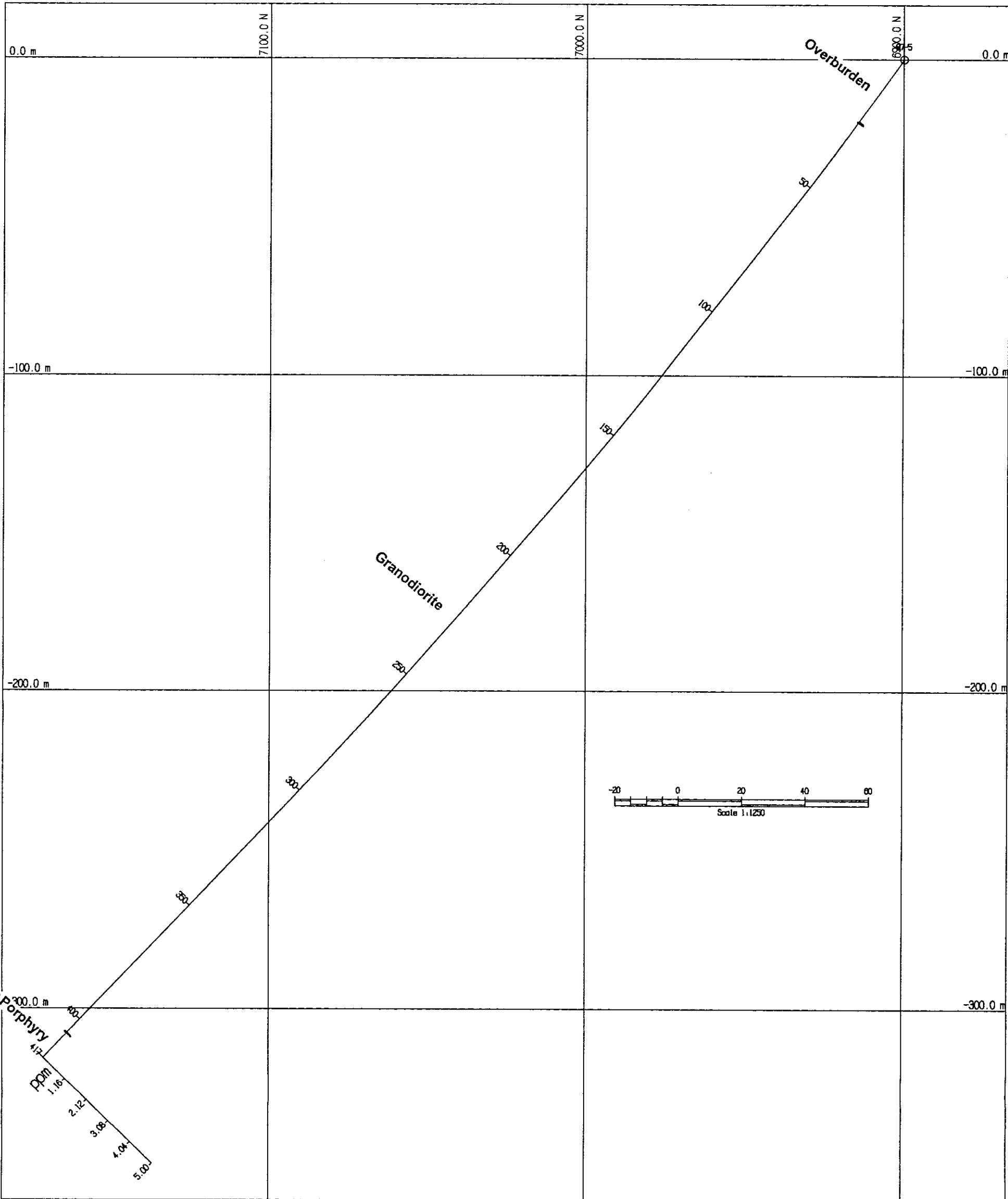
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Software by GEOMI Services Inc.



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 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-5, Section 1400 w
 Mo Geochem Analysis(ppm)



Almaden Resources Corp.
 Vancouver Office
 Vancouver, BC
 689-7644

North-South Section, Looking East
 Drillhole 97-5, Section 1400 w
 Ag Geochem Analysis(ppm)

UNITS : METRES DATE: 97/12/20 TIME: 12:01:31

Software by GEMCOM Services Inc.

**Appendix 3 Diamond Drill Core Analyses for Silver, Copper,
Molybdenum, Lead & Zinc**

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-1 | M706001 | 86.0 | 88.0 | 2.0 | 0.000 | 0.00 | 70 | 36 | 4 | 590 |
| 97-1 | M706002 | 88.0 | 90.0 | 2.0 | 0.000 | 0.60 | 184 | 11 | 8 | 2080 |
| 97-1 | M706003 | 90.0 | 92.0 | 2.0 | 0.000 | 0.40 | 137 | 33 | 6 | 794 |
| 97-1 | M706004 | 92.0 | 94.0 | 2.0 | 0.000 | 0.20 | 105 | 0 | 4 | 488 |
| 97-1 | M706005 | 94.0 | 96.0 | 2.0 | 0.000 | 0.00 | 50 | 0 | 0 | 638 |
| 97-1 | M706006 | 96.0 | 98.0 | 2.0 | 0.000 | 0.00 | 41 | 1 | 2 | 572 |
| 97-1 | M706007 | 98.0 | 100.0 | 2.0 | 0.000 | 0.00 | 130 | 0 | 2 | 600 |
| 97-1 | M706008 | 100.0 | 102.0 | 2.0 | 0.000 | 0.00 | 87 | 0 | 0 | 1190 |
| 97-1 | M706009 | 102.0 | 104.0 | 2.0 | 0.000 | 0.20 | 142 | 0 | 6 | 1505 |
| 97-1 | M706010 | 104.0 | 106.0 | 2.0 | 0.000 | 0.20 | 75 | 129 | 14 | 686 |
| 97-1 | M706011 | 106.0 | 108.0 | 2.0 | 0.000 | 0.60 | 224 | 0 | 10 | 3150 |
| 97-1 | M706012 | 108.0 | 110.0 | 2.0 | 0.000 | 0.00 | 61 | 0 | 6 | 792 |
| 97-1 | M706013 | 110.0 | 112.0 | 2.0 | 0.000 | 0.20 | 97 | 0 | 6 | 310 |
| 97-1 | M706014 | 112.0 | 114.0 | 2.0 | 0.000 | 0.60 | 72 | 0 | 14 | 174 |
| 97-1 | M706015 | 114.0 | 116.0 | 2.0 | 0.000 | 0.60 | 59 | 4 | 12 | 164 |
| 97-1 | M706016 | 116.0 | 118.0 | 2.0 | 0.000 | 0.60 | 79 | 1 | 12 | 252 |
| 97-1 | M706017 | 118.0 | 120.0 | 2.0 | 0.000 | 0.60 | 82 | 18 | 14 | 268 |
| 97-1 | M706018 | 120.0 | 122.0 | 2.0 | 0.000 | 0.20 | 41 | 0 | 6 | 204 |
| 97-1 | M706019 | 122.0 | 124.0 | 2.0 | 0.000 | 0.80 | 144 | 0 | 16 | 388 |
| 97-1 | M706020 | 124.0 | 126.0 | 2.0 | 0.000 | 0.20 | 53 | 0 | 6 | 642 |
| 97-1 | M706021 | 126.0 | 128.0 | 2.0 | 0.000 | 0.60 | 93 | 6 | 14 | 884 |
| 97-1 | M706022 | 128.0 | 130.0 | 2.0 | 0.000 | 0.20 | 31 | 0 | 10 | 396 |
| 97-1 | M706023 | 130.0 | 132.0 | 2.0 | 0.000 | 0.40 | 30 | 0 | 10 | 354 |
| 97-1 | M706024 | 132.0 | 134.0 | 2.0 | 0.000 | 0.60 | 69 | 5 | 14 | 204 |
| 97-1 | M706025 | 134.0 | 136.0 | 2.0 | 0.000 | 0.20 | 45 | 0 | 12 | 90 |
| 97-1 | M706026 | 136.0 | 138.0 | 2.0 | 0.000 | 0.80 | 48 | 4 | 22 | 84 |
| 97-1 | M706027 | 138.0 | 140.0 | 2.0 | 0.000 | 1.20 | 89 | 13 | 46 | 210 |
| 97-1 | M706028 | 140.0 | 142.0 | 2.0 | 0.000 | 0.20 | 23 | 1 | 12 | 90 |
| 97-1 | M706029 | 142.0 | 144.0 | 2.0 | 0.000 | 0.00 | 27 | 0 | 6 | 86 |
| 97-1 | M706030 | 144.0 | 146.0 | 2.0 | 0.000 | 0.00 | 38 | 0 | 8 | 90 |
| 97-1 | M706031 | 146.0 | 148.0 | 2.0 | 0.000 | 0.00 | 32 | 0 | 2 | 78 |
| 97-1 | M706032 | 148.0 | 150.0 | 2.0 | 0.000 | 0.00 | 66 | 0 | 6 | 98 |
| 97-1 | M706033 | 150.0 | 152.0 | 2.0 | 0.000 | 0.00 | 36 | 0 | 2 | 86 |
| 97-1 | M706034 | 152.0 | 154.0 | 2.0 | 0.000 | 0.00 | 45 | 0 | 8 | 98 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-1 | M706035 | 154.0 | 156.0 | 2.0 | 0.000 | 0.20 | 75 | 0 | 12 | 124 |
| 97-1 | M706036 | 156.0 | 158.0 | 2.0 | 0.000 | 0.00 | 31 | 0 | 6 | 112 |
| 97-1 | M706037 | 158.0 | 160.0 | 2.0 | 0.000 | 0.00 | 56 | 1 | 8 | 122 |
| 97-1 | M706038 | 160.0 | 162.0 | 2.0 | 0.000 | 0.20 | 63 | 8 | 28 | 590 |
| 97-1 | M706039 | 162.0 | 164.0 | 2.0 | 0.000 | 0.00 | 28 | 88 | 16 | 124 |
| 97-1 | M706040 | 164.0 | 166.0 | 2.0 | 0.000 | 0.00 | 16 | 27 | 8 | 82 |
| 97-1 | M706041 | 166.0 | 168.0 | 2.0 | 0.000 | 0.20 | 26 | 4 | 24 | 90 |
| 97-1 | M706042 | 168.0 | 170.0 | 2.0 | 0.000 | 0.20 | 41 | 21 | 24 | 114 |
| 97-1 | M706043 | 170.0 | 172.0 | 2.0 | 0.000 | 0.40 | 49 | 3 | 44 | 142 |
| 97-1 | M706044 | 172.0 | 174.0 | 2.0 | 0.000 | 0.00 | 59 | 58 | 14 | 166 |
| 97-1 | M706045 | 174.0 | 176.0 | 2.0 | 0.000 | 0.00 | 46 | 1 | 12 | 96 |
| 97-1 | M706046 | 176.0 | 178.0 | 2.0 | 0.000 | 0.20 | 43 | 71 | 14 | 100 |
| 97-1 | M706047 | 178.0 | 180.0 | 2.0 | 0.000 | 0.20 | 21 | 1 | 16 | 68 |
| 97-1 | M706048 | 180.0 | 182.0 | 2.0 | 0.000 | 0.20 | 26 | 68 | 12 | 86 |
| 97-1 | M706049 | 182.0 | 184.0 | 2.0 | 0.000 | 0.20 | 56 | 11 | 10 | 82 |
| 97-1 | M706050 | 184.0 | 186.0 | 2.0 | 0.000 | 0.20 | 41 | 19 | 8 | 128 |
| 97-1 | M706051 | 186.0 | 188.0 | 2.0 | 0.000 | 0.20 | 14 | 2 | 4 | 98 |
| 97-1 | M706052 | 188.0 | 190.0 | 2.0 | 0.000 | 0.40 | 20 | 96 | 8 | 102 |
| 97-1 | M706053 | 190.0 | 192.0 | 2.0 | 0.000 | 0.60 | 40 | 104 | 24 | 550 |
| 97-1 | M706054 | 192.0 | 194.0 | 2.0 | 0.000 | 3.00 | 225 | 56 | 44 | 1020 |
| 97-1 | M706055 | 194.0 | 196.0 | 2.0 | 0.000 | 0.80 | 94 | 57 | 24 | 242 |
| 97-1 | M706056 | 196.0 | 198.0 | 2.0 | 0.000 | 0.60 | 118 | 77 | 8 | 72 |
| 97-1 | M706057 | 198.0 | 200.0 | 2.0 | 0.000 | 0.00 | 117 | 129 | 2 | 74 |
| 97-1 | M706058 | 200.0 | 202.0 | 2.0 | 0.000 | 0.40 | 156 | 103 | 6 | 162 |
| 97-1 | M706059 | 202.0 | 204.0 | 2.0 | 0.000 | 0.80 | 291 | 14 | 10 | 164 |
| 97-1 | M706060 | 204.0 | 206.0 | 2.0 | 0.000 | 0.20 | 53 | 32 | 8 | 140 |
| 97-1 | M706061 | 206.0 | 208.0 | 2.0 | 0.000 | 0.20 | 113 | 70 | 4 | 92 |
| 97-1 | M706062 | 208.0 | 210.0 | 2.0 | 0.000 | 0.00 | 57 | 457 | 4 | 72 |
| 97-1 | M706063 | 210.0 | 212.0 | 2.0 | 0.000 | 0.00 | 24 | 641 | 0 | 72 |
| 97-1 | M706064 | 212.0 | 214.0 | 2.0 | 0.000 | 0.20 | 103 | 97 | 4 | 78 |
| 97-1 | M706065 | 214.0 | 216.0 | 2.0 | 0.000 | 0.40 | 86 | 69 | 16 | 120 |
| 97-1 | M706066 | 216.0 | 218.0 | 2.0 | 0.000 | 0.60 | 129 | 29 | 20 | 120 |
| 97-1 | M706067 | 218.0 | 220.0 | 2.0 | 0.000 | 0.00 | 23 | 1 | 6 | 48 |
| 97-1 | M706068 | 220.0 | 222.0 | 2.0 | 0.000 | 0.60 | 183 | 11 | 28 | 134 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-1 | M706070 | 224.0 | 226.0 | 2.0 | 0.000 | 0.20 | 73 | 1 | 8 | 140 |
| 97-1 | M706071 | 226.0 | 228.0 | 2.0 | 0.000 | 0.40 | 51 | 24 | 8 | 130 |
| 97-1 | M706072 | 228.0 | 230.0 | 2.0 | 0.000 | 0.00 | 53 | 14 | 4 | 158 |
| 97-1 | M706073 | 230.0 | 232.0 | 2.0 | 0.000 | 0.20 | 237 | 83 | 6 | 94 |
| 97-1 | M706074 | 232.0 | 234.0 | 2.0 | 0.000 | 0.60 | 143 | 21 | 4 | 86 |
| 97-1 | M706075 | 234.0 | 236.0 | 2.0 | 0.000 | 0.80 | 99 | 41 | 4 | 122 |
| 97-1 | M706076 | 236.0 | 238.0 | 2.0 | 0.000 | 0.00 | 50 | 0 | 0 | 56 |
| 97-1 | M706077 | 238.0 | 240.0 | 2.0 | 0.000 | 0.20 | 99 | 3 | 2 | 76 |
| 97-1 | M706078 | 240.0 | 242.0 | 2.0 | 0.000 | 0.40 | 189 | 0 | 4 | 90 |
| 97-1 | M706079 | 242.0 | 244.0 | 2.0 | 0.000 | 1.40 | 84 | 22 | 6 | 258 |
| 97-1 | M706080 | 244.0 | 246.0 | 2.0 | 0.000 | 2.20 | 648 | 36 | 8 | 446 |
| 97-1 | M706081 | 246.0 | 248.0 | 2.0 | 0.000 | 0.40 | 61 | 9 | 4 | 100 |
| 97-1 | M706082 | 248.0 | 250.0 | 2.0 | 0.000 | 0.20 | 140 | 7 | 8 | 134 |
| 97-1 | M706083 | 250.0 | 252.0 | 2.0 | 0.000 | 0.20 | 90 | 4 | 4 | 88 |
| 97-1 | M706084 | 252.0 | 254.0 | 2.0 | 0.000 | 0.00 | 121 | 0 | 10 | 90 |
| 97-1 | M706085 | 254.0 | 256.0 | 2.0 | 0.000 | 0.40 | 101 | 7 | 4 | 286 |
| 97-1 | M706086 | 256.0 | 258.0 | 2.0 | 0.000 | 5.40 | 367 | 12 | 42 | 6310 |
| 97-1 | M706087 | 258.0 | 260.0 | 2.0 | 0.000 | 3.40 | 120 | 15 | 42 | 952 |
| 97-1 | M706088 | 260.0 | 262.0 | 2.0 | 0.000 | 0.60 | 54 | 3 | 6 | 118 |
| 97-1 | M706089 | 262.0 | 264.0 | 2.0 | 0.000 | 0.20 | 49 | 1 | 6 | 92 |
| 97-1 | M706090 | 264.0 | 266.0 | 2.0 | 0.000 | 0.20 | 132 | 21 | 0 | 76 |
| 97-1 | M706091 | 266.0 | 268.0 | 2.0 | 0.000 | 0.00 | 96 | 17 | 2 | 70 |
| 97-1 | M706092 | 268.0 | 270.0 | 2.0 | 0.000 | 0.00 | 47 | 55 | 4 | 48 |
| 97-1 | M706093 | 270.0 | 272.0 | 2.0 | 0.000 | 0.00 | 71 | 2 | 0 | 50 |
| 97-1 | M706094 | 272.0 | 274.0 | 2.0 | 0.000 | 0.60 | 77 | 16 | 6 | 174 |
| 97-1 | M706095 | 274.0 | 276.0 | 2.0 | 0.000 | 2.40 | 440 | 22 | 12 | 392 |
| 97-1 | M706096 | 276.0 | 278.0 | 2.0 | 0.000 | 0.60 | 81 | 7 | 6 | 92 |
| 97-1 | M706097 | 278.0 | 280.0 | 2.0 | 0.000 | 1.40 | 63 | 12 | 14 | 514 |
| 97-1 | M706098 | 280.0 | 282.0 | 2.0 | 0.000 | 0.60 | 80 | 0 | 2 | 74 |
| 97-1 | M706099 | 282.0 | 284.0 | 2.0 | 0.000 | 0.60 | 154 | 46 | 2 | 108 |
| 97-1 | M706100 | 284.0 | 286.0 | 2.0 | 0.000 | 0.60 | 230 | 16 | 6 | 118 |
| 97-1 | M706101 | 286.0 | 288.0 | 2.0 | 0.000 | 0.20 | 69 | 52 | 2 | 84 |
| 97-1 | M706102 | 288.0 | 290.0 | 2.0 | 0.000 | 0.60 | 257 | 3 | 0 | 96 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-1 | M706103 | 290.0 | 292.0 | 2.0 | 0.000 | 0.20 | 128 | 8 | 0 | 74 |
| 97-1 | M706104 | 292.0 | 294.0 | 2.0 | 0.000 | 0.00 | 89 | 8 | 0 | 74 |
| 97-1 | M706105 | 294.0 | 296.0 | 2.0 | 0.000 | 0.80 | 211 | 25 | 4 | 206 |
| 97-1 | M706106 | 296.0 | 298.0 | 2.0 | 0.000 | 1.40 | 240 | 34 | 8 | 372 |
| 97-1 | M706107 | 298.0 | 300.0 | 2.0 | 0.000 | 1.00 | 112 | 89 | 6 | 96 |
| 97-1 | M706108 | 300.0 | 302.0 | 2.0 | 0.000 | 1.40 | 174 | 89 | 10 | 276 |
| 97-1 | M706109 | 302.0 | 304.0 | 2.0 | 0.000 | 1.40 | 46 | 9 | 14 | 1170 |
| 97-1 | M706110 | 304.0 | 306.0 | 2.0 | 0.000 | 2.00 | 136 | 7 | 10 | 242 |
| 97-1 | M706111 | 306.0 | 308.0 | 2.0 | 0.000 | 0.60 | 35 | 19 | 16 | 788 |
| 97-1 | M706112 | 308.0 | 310.0 | 2.0 | 0.000 | 0.80 | 49 | 24 | 22 | 260 |
| 97-1 | M706113 | 310.0 | 312.0 | 2.0 | 0.000 | 0.80 | 49 | 34 | 8 | 150 |
| 97-1 | M706114 | 312.0 | 314.0 | 2.0 | 0.000 | 0.00 | 27 | 0 | 2 | 56 |
| 97-1 | M706115 | 314.0 | 316.0 | 2.0 | 0.000 | 0.00 | 18 | 8 | 2 | 116 |
| 97-1 | M706116 | 316.0 | 318.0 | 2.0 | 0.000 | 0.20 | 50 | 14 | 6 | 310 |
| 97-1 | M706117 | 318.0 | 320.0 | 2.0 | 0.000 | 0.60 | 18 | 3 | 18 | 176 |
| 97-1 | M706118 | 320.0 | 322.0 | 2.0 | 0.000 | 0.60 | 138 | 2 | 6 | 174 |
| 97-1 | M706119 | 322.0 | 324.0 | 2.0 | 0.000 | 0.80 | 34 | 1 | 8 | 260 |
| 97-1 | M706120 | 324.0 | 326.0 | 2.0 | 0.000 | 0.00 | 24 | 0 | 0 | 62 |
| 97-1 | M706121 | 326.0 | 328.0 | 2.0 | 0.000 | 0.40 | 91 | 1 | 6 | 144 |
| 97-1 | M706122 | 328.0 | 330.0 | 2.0 | 0.000 | 0.00 | 25 | 0 | 4 | 54 |
| 97-1 | M706123 | 330.0 | 332.0 | 2.0 | 0.000 | 0.20 | 119 | 3 | 12 | 138 |
| 97-1 | M706124 | 332.0 | 334.0 | 2.0 | 0.000 | 0.60 | 23 | 3 | 30 | 332 |
| 97-1 | M706125 | 334.0 | 336.0 | 2.0 | 0.000 | 0.20 | 9 | 0 | 52 | 264 |
| 97-1 | M706126 | 336.0 | 338.0 | 2.0 | 0.000 | 0.20 | 12 | 4 | 66 | 334 |
| 97-1 | M706127 | 338.0 | 340.0 | 2.0 | 0.000 | 0.60 | 12 | 10 | 78 | 908 |
| 97-1 | M706128 | 340.0 | 342.0 | 2.0 | 0.000 | 0.60 | 31 | 2 | 12 | 1355 |
| 97-1 | M706129 | 342.0 | 344.0 | 2.0 | 0.000 | 1.20 | 39 | 5 | 38 | 182 |
| 97-1 | M706130 | 344.0 | 346.0 | 2.0 | 0.000 | 0.20 | 25 | 1 | 6 | 92 |
| 97-1 | M706131 | 346.0 | 348.0 | 2.0 | 0.000 | 0.80 | 9 | 0 | 28 | 152 |
| 97-1 | M706132 | 348.0 | 350.0 | 2.0 | 0.000 | 0.00 | 13 | 0 | 10 | 186 |
| 97-1 | M706133 | 350.0 | 352.0 | 2.0 | 0.000 | 0.40 | 12 | 5 | 16 | 152 |
| 97-1 | M706134 | 352.0 | 354.0 | 2.0 | 0.000 | 0.80 | 82 | 1 | 8 | 70 |
| 97-1 | M706135 | 354.0 | 356.0 | 2.0 | 0.000 | 1.20 | 40 | 22 | 12 | 68 |
| 97-1 | M706136 | 356.0 | 358.0 | 2.0 | 0.000 | 1.80 | 51 | 4 | 18 | 68 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-1 | M706137 | 358.0 | 360.0 | 2.0 | 0.000 | 0.60 | 20 | 3 | 8 | 62 |
| 97-1 | M706138 | 360.0 | 362.0 | 2.0 | 0.000 | 0.20 | 6 | 2 | 0 | 42 |
| 97-1 | M706139 | 362.0 | 364.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 2 | 16 |
| 97-1 | M706140 | 364.0 | 366.0 | 2.0 | 0.000 | 0.20 | 8 | 4 | 0 | 58 |
| 97-1 | M706141 | 366.0 | 368.0 | 2.0 | 0.000 | 0.00 | 3 | 6 | 2 | 18 |
| 97-1 | M706142 | 368.0 | 370.0 | 2.0 | 0.000 | 0.00 | 2 | 8 | 0 | 18 |
| 97-1 | M706143 | 370.0 | 372.0 | 2.0 | 0.000 | 0.00 | 7 | 10 | 0 | 30 |
| 97-1 | M706144 | 372.0 | 374.0 | 2.0 | 0.000 | 0.20 | 4 | 21 | 6 | 78 |
| 97-1 | M706145 | 374.0 | 376.7 | 2.7 | 0.000 | 0.00 | 4 | 4 | 0 | 26 |
| 97-2 | M706146 | 94.0 | 96.0 | 2.0 | 0.000 | 0.80 | 209 | 46 | 16 | 540 |
| 97-2 | M706147 | 96.0 | 98.0 | 2.0 | 0.000 | 0.80 | 135 | 1 | 20 | 374 |
| 97-2 | M706148 | 98.0 | 100.0 | 2.0 | 0.000 | 1.20 | 104 | 28 | 16 | 474 |
| 97-2 | M706149 | 100.0 | 102.0 | 2.0 | 0.000 | 0.80 | 162 | 114 | 8 | 102 |
| 97-2 | M706150 | 102.0 | 104.0 | 2.0 | 0.000 | 1.00 | 158 | 122 | 10 | 104 |
| 97-2 | M706151 | 104.0 | 106.0 | 2.0 | 0.000 | 0.20 | 112 | 41 | 6 | 78 |
| 97-2 | M706152 | 106.0 | 108.0 | 2.0 | 0.000 | 0.00 | 46 | 113 | 2 | 42 |
| 97-2 | M706153 | 108.0 | 110.0 | 2.0 | 0.000 | 0.20 | 114 | 116 | 4 | 48 |
| 97-2 | M706154 | 110.0 | 112.0 | 2.0 | 0.000 | 0.00 | 41 | 21 | 0 | 30 |
| 97-2 | M706155 | 112.0 | 114.0 | 2.0 | 0.000 | 0.20 | 99 | 143 | 2 | 32 |
| 97-2 | M706156 | 114.0 | 116.0 | 2.0 | 0.000 | 0.20 | 90 | 68 | 6 | 58 |
| 97-2 | M706157 | 116.0 | 118.0 | 2.0 | 0.000 | 0.60 | 168 | 61 | 6 | 264 |
| 97-2 | M706158 | 118.0 | 120.0 | 2.0 | 0.000 | 0.20 | 207 | 47 | 2 | 74 |
| 97-2 | M706159 | 120.0 | 122.0 | 2.0 | 0.000 | 0.60 | 172 | 51 | 16 | 92 |
| 97-2 | M706160 | 122.0 | 124.0 | 2.0 | 0.000 | 0.00 | 39 | 54 | 4 | 46 |
| 97-2 | M706161 | 124.0 | 126.0 | 2.0 | 0.010 | 0.00 | 53 | 35 | 0 | 50 |
| 97-2 | M706162 | 126.0 | 128.0 | 2.0 | 0.000 | 0.20 | 185 | 37 | 0 | 56 |
| 97-2 | M706163 | 128.0 | 130.0 | 2.0 | 0.000 | 0.40 | 142 | 66 | 4 | 44 |
| 97-2 | M706164 | 130.0 | 132.0 | 2.0 | 0.005 | 0.60 | 256 | 125 | 6 | 74 |
| 97-2 | M706165 | 132.0 | 134.0 | 2.0 | 0.010 | 1.00 | 159 | 55 | 18 | 88 |
| 97-2 | M706166 | 134.0 | 136.0 | 2.0 | 0.000 | 3.60 | 112 | 34 | 180 | 370 |
| 97-2 | M706167 | 136.0 | 138.0 | 2.0 | 0.005 | 0.60 | 207 | 55 | 6 | 82 |
| 97-2 | M706168 | 138.0 | 140.0 | 2.0 | 0.000 | 0.20 | 106 | 36 | 0 | 42 |
| 97-2 | M706169 | 140.0 | 142.0 | 2.0 | 0.000 | 0.00 | 44 | 43 | 0 | 40 |
| 97-2 | M706170 | 142.0 | 144.0 | 2.0 | 0.000 | 0.40 | 121 | 21 | 6 | 94 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-2 | M706171 | 144.0 | 146.0 | 2.0 | 0.000 | 0.80 | 262 | 58 | 8 | 838 |
| 97-2 | M706172 | 146.0 | 148.0 | 2.0 | 0.000 | 0.00 | 43 | 24 | 0 | 44 |
| 97-2 | M706173 | 148.0 | 150.0 | 2.0 | 0.000 | 0.20 | 65 | 38 | 2 | 40 |
| 97-2 | M706174 | 150.0 | 152.0 | 2.0 | 0.000 | 0.00 | 65 | 146 | 0 | 38 |
| 97-2 | M706175 | 152.0 | 154.0 | 2.0 | 0.000 | 0.00 | 52 | 89 | 0 | 44 |
| 97-2 | M706176 | 154.0 | 156.0 | 2.0 | 0.000 | 0.20 | 84 | 41 | 2 | 46 |
| 97-2 | M706177 | 156.0 | 158.0 | 2.0 | 0.000 | 1.40 | 29 | 81 | 8 | 38 |
| 97-2 | M706178 | 158.0 | 160.0 | 2.0 | 0.000 | 0.00 | 52 | 37 | 0 | 38 |
| 97-2 | M706179 | 160.0 | 162.0 | 2.0 | 0.000 | 0.00 | 10 | 10 | 0 | 30 |
| 97-2 | M706180 | 162.0 | 164.0 | 2.0 | 0.000 | 0.00 | 41 | 20 | 0 | 38 |
| 97-2 | M706181 | 164.0 | 166.0 | 2.0 | 0.000 | 0.00 | 23 | 0 | 0 | 28 |
| 97-2 | M706182 | 166.0 | 168.0 | 2.0 | 0.000 | 0.00 | 96 | 6 | 0 | 38 |
| 97-2 | M706183 | 168.0 | 170.0 | 2.0 | 0.000 | 0.00 | 47 | 34 | 0 | 34 |
| 97-2 | M706184 | 170.0 | 172.0 | 2.0 | 0.000 | 0.00 | 44 | 65 | 2 | 44 |
| 97-2 | M706185 | 172.0 | 174.0 | 2.0 | 0.000 | 0.00 | 20 | 17 | 0 | 40 |
| 97-2 | M706186 | 174.0 | 176.0 | 2.0 | 0.000 | 0.00 | 27 | 5 | 0 | 44 |
| 97-2 | M706187 | 176.0 | 178.0 | 2.0 | 0.000 | 0.00 | 21 | 11 | 0 | 38 |
| 97-2 | M706188 | 178.0 | 180.0 | 2.0 | 0.000 | 0.00 | 32 | 13 | 2 | 52 |
| 97-2 | M706189 | 180.0 | 182.0 | 2.0 | 0.000 | 0.00 | 25 | 1 | 0 | 40 |
| 97-2 | M706190 | 182.0 | 184.0 | 2.0 | 0.000 | 0.00 | 24 | 1 | 0 | 42 |
| 97-2 | M706191 | 184.0 | 186.0 | 2.0 | 0.000 | 0.00 | 41 | 13 | 4 | 54 |
| 97-2 | M706192 | 186.0 | 188.0 | 2.0 | 0.000 | 0.20 | 10 | 8 | 14 | 176 |
| 97-2 | M706193 | 188.0 | 190.0 | 2.0 | 0.000 | 0.40 | 28 | 43 | 10 | 146 |
| 97-2 | M706194 | 190.0 | 192.0 | 2.0 | 0.000 | 0.60 | 96 | 16 | 22 | 294 |
| 97-2 | M706195 | 192.0 | 194.0 | 2.0 | 0.000 | 1.00 | 51 | 39 | 18 | 538 |
| 97-2 | M706196 | 194.0 | 196.0 | 2.0 | 0.000 | 0.60 | 26 | 61 | 16 | 404 |
| 97-2 | M706197 | 196.0 | 198.0 | 2.0 | 0.000 | 3.40 | 685 | 13 | 40 | 2760 |
| 97-2 | M706198 | 198.0 | 200.0 | 2.0 | 0.000 | 0.00 | 35 | 17 | 2 | 98 |
| 97-2 | M706199 | 200.0 | 202.0 | 2.0 | 0.000 | 0.00 | 20 | 0 | 4 | 52 |
| 97-2 | M706200 | 202.0 | 204.0 | 2.0 | 0.000 | 0.00 | 19 | 3 | 2 | 92 |
| 97-2 | M706201 | 204.0 | 206.0 | 2.0 | 0.000 | 0.20 | 11 | 34 | 8 | 258 |
| 97-2 | M706202 | 206.0 | 208.0 | 2.0 | 0.000 | 1.40 | 21 | 19 | 8 | 968 |
| 97-2 | M706203 | 208.0 | 210.0 | 2.0 | 0.000 | 1.60 | 85 | 11 | 14 | 488 |
| 97-2 | M706204 | 210.0 | 212.0 | 2.0 | 0.000 | 0.20 | 8 | 8 | 6 | 74 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-2 | M706205 | 212.0 | 214.0 | 2.0 | 0.000 | 2.20 | 709 | 32 | 4 | 32 |
| 97-2 | M706206 | 214.0 | 216.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 4 | 44 |
| 97-2 | M706207 | 216.0 | 218.0 | 2.0 | 0.000 | 0.00 | 11 | 23 | 6 | 180 |
| 97-2 | M706208 | 218.0 | 220.0 | 2.0 | 0.000 | 0.00 | 19 | 2 | 2 | 36 |
| 97-2 | M706209 | 229.0 | 230.0 | 1.0 | 0.000 | 0.00 | 1 | 0 | 2 | 8 |
| 97-2 | M706210 | 230.0 | 232.0 | 2.0 | 0.000 | 0.00 | 4 | 25 | 2 | 28 |
| 97-2 | M706211 | 232.0 | 234.0 | 2.0 | 0.000 | 0.80 | 164 | 8 | 8 | 42 |
| 97-2 | M706212 | 234.0 | 236.0 | 2.0 | 0.000 | 0.00 | 8 | 3 | 4 | 20 |
| 97-2 | M706213 | 236.0 | 238.0 | 2.0 | 0.000 | 0.00 | 12 | 26 | 4 | 36 |
| 97-2 | M706214 | 238.0 | 240.0 | 2.0 | 0.000 | 0.00 | 5 | 26 | 2 | 30 |
| 97-2 | M706215 | 240.0 | 242.0 | 2.0 | 0.000 | 0.00 | 17 | 4 | 4 | 36 |
| 97-2 | M706216 | 266.0 | 268.0 | 2.0 | 0.000 | 0.00 | 19 | 3 | 2 | 38 |
| 97-2 | M706217 | 268.0 | 270.0 | 2.0 | 0.000 | 0.00 | 5 | 9 | 6 | 34 |
| 97-2 | M706218 | 270.0 | 272.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 6 | 22 |
| 97-2 | M706219 | 272.0 | 274.0 | 2.0 | 0.000 | 0.00 | 18 | 4 | 10 | 30 |
| 97-2 | M706220 | 274.0 | 276.0 | 2.0 | 0.000 | 0.00 | 19 | 0 | 10 | 44 |
| 97-2 | M706221 | 276.0 | 278.0 | 2.0 | 0.000 | 0.00 | 17 | 0 | 6 | 40 |
| 97-2 | M706222 | 278.0 | 280.0 | 2.0 | 0.000 | 0.00 | 35 | 0 | 4 | 42 |
| 97-2 | M706223 | 280.0 | 282.0 | 2.0 | 0.000 | 0.00 | 16 | 44 | 2 | 34 |
| 97-2 | M706224 | 282.0 | 284.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 2 | 28 |
| 97-2 | M706225 | 284.0 | 286.0 | 2.0 | 0.000 | 0.00 | 10 | 14 | 6 | 26 |
| 97-2 | M706226 | 286.0 | 288.0 | 2.0 | 0.000 | 0.00 | 13 | 6 | 6 | 36 |
| 97-2 | M706227 | 288.0 | 290.0 | 2.0 | 0.000 | 0.00 | 35 | 1 | 6 | 32 |
| 97-2 | M706228 | 290.0 | 292.0 | 2.0 | 0.000 | 0.00 | 14 | 4 | 0 | 36 |
| 97-2 | M706229 | 292.0 | 294.0 | 2.0 | 0.000 | 0.00 | 19 | 1 | 2 | 36 |
| 97-2 | M706230 | 294.0 | 296.0 | 2.0 | 0.000 | 0.00 | 35 | 12 | 2 | 68 |
| 97-2 | M706231 | 296.0 | 298.0 | 2.0 | 0.000 | 0.00 | 7 | 6 | 2 | 42 |
| 97-2 | M706232 | 298.0 | 300.0 | 2.0 | 0.000 | 0.00 | 11 | 128 | 0 | 30 |
| 97-2 | M706233 | 300.0 | 302.0 | 2.0 | 0.000 | 0.00 | 78 | 5 | 2 | 306 |
| 97-2 | M706234 | 302.0 | 304.0 | 2.0 | 0.000 | 0.20 | 249 | 8 | 6 | 104 |
| 97-2 | M706235 | 304.0 | 306.0 | 2.0 | 0.000 | 0.80 | 103 | 11 | 46 | 468 |
| 97-2 | M706236 | 306.0 | 308.0 | 2.0 | 0.000 | 0.00 | 96 | 3 | 2 | 316 |
| 97-2 | M706237 | 308.0 | 310.0 | 2.0 | 0.000 | 0.00 | 93 | 1 | 2 | 88 |
| 97-2 | M706238 | 310.0 | 312.0 | 2.0 | 0.000 | 0.00 | 46 | 9 | 4 | 92 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-2 | M706239 | 312.0 | 314.0 | 2.0 | 0.000 | 0.00 | 23 | 4 | 2 | 56 |
| 97-2 | M706240 | 314.0 | 316.0 | 2.0 | 0.000 | 2.40 | 95 | 3 | 28 | 62 |
| 97-2 | M706241 | 316.0 | 318.0 | 2.0 | 0.000 | 0.00 | 18 | 1 | 4 | 44 |
| 97-2 | M706242 | 318.0 | 320.0 | 2.0 | 0.000 | 0.00 | 77 | 0 | 6 | 192 |
| 97-2 | M706243 | 320.0 | 322.0 | 2.0 | 0.000 | 0.00 | 71 | 0 | 4 | 102 |
| 97-2 | M706244 | 322.0 | 324.0 | 2.0 | 0.000 | 0.20 | 8 | 33 | 6 | 26 |
| 97-2 | M706245 | 324.0 | 326.0 | 2.0 | 0.000 | 0.00 | 5 | 34 | 2 | 16 |
| 97-2 | M706246 | 326.0 | 328.0 | 2.0 | 0.000 | 0.00 | 22 | 1 | 6 | 40 |
| 97-2 | M706247 | 328.0 | 329.0 | 1.0 | 0.000 | 0.00 | 18 | 1 | 4 | 42 |
| 97-2 | M706248 | 335.0 | 336.0 | 1.0 | 0.000 | 0.00 | 29 | 16 | 4 | 22 |
| 97-2 | M706249 | 336.0 | 338.0 | 2.0 | 0.000 | 0.20 | 68 | 25 | 6 | 48 |
| 97-2 | M706250 | 338.0 | 340.0 | 2.0 | 0.000 | 0.40 | 389 | 57 | 2 | 42 |
| 97-2 | M706251 | 340.0 | 342.0 | 2.0 | 0.000 | 0.00 | 146 | 9 | 2 | 36 |
| 97-2 | M706252 | 346.0 | 348.0 | 2.0 | 0.000 | 0.00 | 42 | 4 | 6 | 296 |
| 97-2 | M706253 | 348.0 | 350.0 | 2.0 | 0.000 | 0.20 | 333 | 7 | 2 | 256 |
| 97-2 | M706254 | 350.0 | 352.0 | 2.0 | 0.000 | 0.20 | 149 | 13 | 4 | 108 |
| 97-2 | M706255 | 352.0 | 354.0 | 2.0 | 0.000 | 0.20 | 419 | 9 | 6 | 66 |
| 97-2 | M706256 | 354.0 | 356.0 | 2.0 | 0.000 | 0.00 | 36 | 3 | 2 | 46 |
| 97-2 | M706257 | 356.0 | 358.0 | 2.0 | 0.000 | 0.00 | 19 | 4 | 2 | 36 |
| 97-2 | M706258 | 358.0 | 360.0 | 2.0 | 0.000 | 0.00 | 11 | 16 | 2 | 24 |
| 97-2 | M706259 | 360.0 | 362.0 | 2.0 | 0.000 | 0.00 | 5 | 4 | 0 | 12 |
| 97-2 | M706260 | 362.0 | 364.0 | 2.0 | 0.000 | 0.00 | 27 | 2 | 2 | 20 |
| 97-2 | M706261 | 364.0 | 366.0 | 2.0 | 0.000 | 0.00 | 93 | 6 | 2 | 30 |
| 97-2 | M706262 | 366.0 | 368.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 2 | 18 |
| 97-2 | M706263 | 368.0 | 370.0 | 2.0 | 0.000 | 0.00 | 40 | 3 | 2 | 10 |
| 97-2 | M706264 | 370.0 | 372.0 | 2.0 | 0.000 | 0.00 | 11 | 1 | 2 | 20 |
| 97-2 | M706265 | 372.0 | 374.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 0 | 20 |
| 97-2 | M706266 | 374.0 | 376.0 | 2.0 | 0.000 | 0.00 | 2 | 4 | 2 | 10 |
| 97-2 | M706267 | 376.0 | 378.0 | 2.0 | 0.000 | 0.00 | 8 | 8 | 6 | 16 |
| 97-2 | M706268 | 378.0 | 380.0 | 2.0 | 0.000 | 0.00 | 10 | 6 | 6 | 20 |
| 97-2 | M706269 | 380.0 | 382.0 | 2.0 | 0.000 | 0.00 | 18 | 8 | 2 | 18 |
| 97-2 | M706270 | 382.0 | 384.0 | 2.0 | 0.000 | 0.00 | 35 | 1 | 0 | 16 |
| 97-2 | M706271 | 384.0 | 386.0 | 2.0 | 0.000 | 0.00 | 8 | 2 | 2 | 20 |
| 97-2 | M706272 | 386.0 | 388.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 24 |
| 97-2 | M706273 | 388.0 | 390.0 | 2.0 | 0.000 | 0.00 | 116 | 9 | 2 | 22 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-2 | M706274 | 390.0 | 392.0 | 2.0 | 0.000 | 0.00 | 32 | 2 | 2 | 18 |
| 97-2 | M706275 | 392.0 | 394.0 | 2.0 | 0.000 | 0.00 | 16 | 1 | 4 | 26 |
| 97-2 | M706276 | 394.0 | 396.0 | 2.0 | 0.000 | 0.00 | 18 | 17 | 2 | 12 |
| 97-2 | M706277 | 396.0 | 398.0 | 2.0 | 0.000 | 0.00 | 10 | 8 | 2 | 8 |
| 97-2 | M706278 | 398.0 | 400.0 | 2.0 | 0.000 | 0.00 | 9 | 10 | 0 | 12 |
| 97-2 | M706279 | 400.0 | 402.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 16 |
| 97-2 | M706280 | 402.0 | 404.0 | 2.0 | 0.000 | 0.00 | 3 | 5 | 2 | 12 |
| 97-2 | M706281 | 404.0 | 406.0 | 2.0 | 0.000 | 0.00 | 3 | 4 | 2 | 12 |
| 97-2 | M706282 | 406.0 | 408.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 4 | 20 |
| 97-2 | M706283 | 408.0 | 410.0 | 2.0 | 0.000 | 0.00 | 4 | 5 | 2 | 16 |
| 97-2 | M706284 | 410.0 | 412.0 | 2.0 | 0.000 | 0.00 | 9 | 10 | 0 | 12 |
| 97-2 | M706285 | 412.0 | 414.0 | 2.0 | 0.000 | 0.00 | 9 | 11 | 2 | 10 |
| 97-2 | M706286 | 414.0 | 416.0 | 2.0 | 0.000 | 0.00 | 19 | 17 | 2 | 14 |
| 97-2 | M706287 | 416.0 | 418.0 | 2.0 | 0.000 | 0.20 | 17 | 5 | 2 | 22 |
| 97-2 | M706288 | 418.0 | 420.0 | 2.0 | 0.000 | 0.00 | 2 | 1 | 2 | 16 |
| 97-2 | M706289 | 420.0 | 422.0 | 2.0 | 0.000 | 0.00 | 12 | 10 | 2 | 18 |
| 97-2 | M706290 | 422.0 | 424.0 | 2.0 | 0.000 | 0.00 | 3 | 10 | 2 | 12 |
| 97-2 | M706291 | 424.0 | 425.2 | 1.2 | 0.000 | 0.00 | 15 | 2 | 2 | 18 |
| 97-3 | M706292 | 136.0 | 138.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 34 |
| 97-3 | M706293 | 138.0 | 140.0 | 2.0 | 0.000 | 0.00 | 4 | 84 | 2 | 34 |
| 97-3 | M706294 | 140.0 | 142.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 34 |
| 97-3 | M706295 | 142.0 | 144.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 30 |
| 97-3 | M706296 | 144.0 | 146.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 54 |
| 97-3 | M706297 | 146.0 | 148.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 32 |
| 97-3 | M706298 | 148.0 | 150.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 36 |
| 97-3 | M706299 | 150.0 | 152.0 | 2.0 | 0.000 | 0.00 | 18 | 0 | 2 | 52 |
| 97-3 | M706300 | 152.0 | 154.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 42 |
| 97-3 | M706301 | 154.0 | 156.0 | 2.0 | 0.000 | 0.00 | 9 | 9 | 2 | 24 |
| 97-3 | M706302 | 156.0 | 158.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 22 |
| 97-3 | M706303 | 158.0 | 160.0 | 2.0 | 0.000 | 0.00 | 39 | 0 | 2 | 26 |
| 97-3 | M706304 | 300.0 | 302.0 | 2.0 | 0.000 | 0.00 | 22 | 0 | 2 | 42 |
| 97-3 | M706305 | 302.0 | 304.0 | 2.0 | 0.000 | 0.00 | 10 | 0 | 0 | 48 |
| 97-3 | M706306 | 304.0 | 306.0 | 2.0 | 0.000 | 0.00 | 8 | 1 | 0 | 40 |
| 97-3 | M706307 | 306.0 | 308.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 40 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-3 | M706308 | 308.0 | 310.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 44 |
| 97-3 | M706309 | 310.0 | 312.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 4 | 34 |
| 97-3 | M706310 | 312.0 | 314.0 | 2.0 | 0.000 | 0.00 | 9 | 0 | 0 | 42 |
| 97-3 | M706311 | 314.0 | 316.0 | 2.0 | 0.000 | 0.00 | 110 | 3 | 2 | 56 |
| 97-3 | M706312 | 316.0 | 318.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 40 |
| 97-3 | M706313 | 318.0 | 320.0 | 2.0 | 0.000 | 0.00 | 30 | 0 | 2 | 54 |
| 97-3 | M706314 | 320.0 | 322.0 | 2.0 | 0.000 | 0.00 | 6 | 2 | 2 | 38 |
| 97-3 | M706315 | 322.0 | 324.0 | 2.0 | 0.000 | 0.00 | 12 | 0 | 0 | 44 |
| 97-3 | M706316 | 324.0 | 326.0 | 2.0 | 0.000 | 0.00 | 17 | 0 | 0 | 70 |
| 97-3 | M706317 | 326.0 | 328.0 | 2.0 | 0.000 | 0.60 | 668 | 2 | 0 | 80 |
| 97-3 | M706318 | 424.3 | 425.0 | 0.7 | 0.000 | 0.00 | 3 | 2 | 2 | 14 |
| 97-3 | M706319 | 160.0 | 162.0 | 2.0 | 0.000 | 0.00 | 28 | 3 | 2 | 14 |
| 97-4 | M706320 | 162.0 | 164.0 | 2.0 | 0.000 | 0.00 | 13 | 0 | 2 | 48 |
| 97-4 | M706321 | 164.0 | 166.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 2 | 12 |
| 97-4 | M706322 | 166.0 | 168.0 | 2.0 | 0.000 | 0.00 | 2 | 2 | 2 | 12 |
| 97-4 | M706323 | 168.0 | 170.0 | 2.0 | 0.000 | 0.00 | 2 | 2 | 4 | 10 |
| 97-4 | M706324 | 170.0 | 172.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 20 |
| 97-4 | M706325 | 172.0 | 174.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 2 | 26 |
| 97-4 | M706326 | 174.0 | 176.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 30 |
| 97-4 | M706327 | 176.0 | 178.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 0 | 24 |
| 97-4 | M706328 | 178.0 | 180.0 | 2.0 | 0.000 | 0.00 | 10 | 0 | 2 | 18 |
| 97-4 | M706329 | 180.0 | 182.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 2 | 16 |
| 97-4 | M706330 | 182.0 | 184.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 6 | 16 |
| 97-4 | M706331 | 184.0 | 186.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 4 | 26 |
| 97-4 | M706332 | 186.0 | 188.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 2 | 22 |
| 97-4 | M706333 | 188.0 | 190.0 | 2.0 | 0.000 | 0.00 | 14 | 3 | 2 | 32 |
| 97-4 | M706334 | 137.0 | 138.0 | 1.0 | 0.000 | 1.00 | 152 | 3 | 6 | 28 |
| 97-4 | M706335 | 190.0 | 192.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 4 | 30 |
| 97-4 | M706336 | 192.0 | 194.0 | 2.0 | 0.000 | 0.00 | 4 | 7 | 2 | 30 |
| 97-4 | M706337 | 194.0 | 196.0 | 2.0 | 0.000 | 0.00 | 4 | 2 | 2 | 30 |
| 97-4 | M706338 | 196.0 | 198.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 6 | 20 |
| 97-4 | M706339 | 198.0 | 200.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 2 | 28 |
| 97-4 | M706340 | 200.0 | 202.0 | 2.0 | 0.000 | 0.00 | 3 | 6 | 2 | 24 |
| 97-4 | M706341 | 202.0 | 204.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 26 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-4 | M706342 | 204.0 | 206.0 | 2.0 | 0.000 | 0.00 | 7 | 4 | 2 | 26 |
| 97-4 | M706343 | 206.0 | 208.0 | 2.0 | 0.000 | 0.00 | 22 | 0 | 4 | 32 |
| 97-4 | M706344 | 208.0 | 210.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 24 |
| 97-4 | M706345 | 210.0 | 212.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 24 |
| 97-4 | M706346 | 212.0 | 214.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 4 | 22 |
| 97-4 | M706347 | 214.0 | 216.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 24 |
| 97-4 | M706348 | 216.0 | 218.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 28 |
| 97-4 | M706349 | 218.0 | 220.0 | 2.0 | 0.000 | 0.00 | 2 | 10 | 4 | 20 |
| 97-4 | M706350 | 220.0 | 222.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 22 |
| 97-4 | M706351 | 222.0 | 224.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 4 | 22 |
| 97-4 | M706352 | 224.0 | 226.0 | 2.0 | 0.000 | 0.00 | 17 | 0 | 2 | 18 |
| 97-4 | M706353 | 226.0 | 228.0 | 2.0 | 0.000 | 0.00 | 20 | 4 | 2 | 14 |
| 97-4 | M706354 | 228.0 | 230.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 22 |
| 97-4 | M706355 | 230.0 | 232.0 | 2.0 | 0.000 | 0.00 | 3 | 14 | 4 | 18 |
| 97-4 | M706356 | 232.0 | 234.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 6 | 16 |
| 97-4 | M706357 | 234.0 | 236.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 14 |
| 97-4 | M706358 | 236.0 | 238.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 2 | 20 |
| 97-4 | M706359 | 238.0 | 240.0 | 2.0 | 0.000 | 0.00 | 5 | 5 | 2 | 18 |
| 97-4 | M706360 | 240.0 | 242.0 | 2.0 | 0.000 | 0.00 | 6 | 2 | 6 | 26 |
| 97-4 | M706361 | 242.0 | 244.0 | 2.0 | 0.000 | 0.00 | 14 | 1 | 6 | 28 |
| 97-4 | M706362 | 244.0 | 246.0 | 2.0 | 0.000 | 0.00 | 23 | 0 | 0 | 16 |
| 97-4 | M706363 | 246.0 | 248.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 4 | 18 |
| 97-4 | M706364 | 248.0 | 250.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 26 |
| 97-4 | M706365 | 250.0 | 252.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 24 |
| 97-4 | M706366 | 252.0 | 254.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 22 |
| 97-4 | M706367 | 254.0 | 256.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 0 | 18 |
| 97-4 | M706368 | 256.0 | 258.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 4 | 28 |
| 97-4 | M706369 | 258.0 | 260.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 4 | 14 |
| 97-4 | M706370 | 260.0 | 262.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 18 |
| 97-4 | M706371 | 262.0 | 264.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 24 |
| 97-4 | M706372 | 264.0 | 266.0 | 2.0 | 0.000 | 0.00 | 8 | 0 | 2 | 22 |
| 97-4 | M706373 | 266.0 | 268.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 26 |
| 97-4 | M706374 | 268.0 | 270.0 | 2.0 | 0.000 | 0.00 | 8 | 0 | 2 | 18 |
| 97-4 | M706375 | 270.0 | 272.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 22 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-4 | M706376 | 272.0 | 274.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 18 |
| 97-4 | M706377 | 274.0 | 276.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 16 |
| 97-4 | M706378 | 276.0 | 278.0 | 2.0 | 0.000 | 0.00 | 3 | 3 | 8 | 8 |
| 97-4 | M706379 | 278.0 | 280.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 4 | 14 |
| 97-4 | M706380 | 280.0 | 282.0 | 2.0 | 0.000 | 0.00 | 18 | 0 | 2 | 18 |
| 97-4 | M706381 | 282.0 | 284.0 | 2.0 | 0.000 | 0.00 | 81 | 0 | 0 | 22 |
| 97-4 | M706382 | 284.0 | 286.0 | 2.0 | 0.000 | 0.00 | 11 | 0 | 0 | 20 |
| 97-4 | M706383 | 286.0 | 288.0 | 2.0 | 0.000 | 0.00 | 16 | 0 | 2 | 18 |
| 97-4 | M706384 | 288.0 | 290.0 | 2.0 | 0.000 | 0.00 | 40 | 0 | 4 | 30 |
| 97-4 | M706385 | 290.0 | 292.0 | 2.0 | 0.000 | 0.00 | 10 | 0 | 2 | 38 |
| 97-4 | M706386 | 292.0 | 294.0 | 2.0 | 0.000 | 0.00 | 7 | 2 | 0 | 22 |
| 97-4 | M706387 | 294.0 | 296.0 | 2.0 | 0.000 | 0.00 | 15 | 1 | 0 | 24 |
| 97-4 | M706388 | 296.0 | 298.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 6 | 16 |
| 97-4 | M706389 | 298.0 | 300.0 | 2.0 | 0.000 | 0.00 | 7 | 1 | 0 | 18 |
| 97-4 | M706390 | 300.0 | 302.0 | 2.0 | 0.000 | 0.00 | 10 | 2 | 2 | 22 |
| 97-4 | M706391 | 302.0 | 304.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 4 | 24 |
| 97-4 | M706392 | 304.0 | 306.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 32 |
| 97-4 | M706393 | 306.0 | 308.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 20 |
| 97-4 | M706394 | 308.0 | 310.0 | 2.0 | 0.000 | 0.00 | 17 | 0 | 2 | 26 |
| 97-4 | M706395 | 310.0 | 312.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 24 |
| 97-4 | M706396 | 312.0 | 314.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 22 |
| 97-4 | M706397 | 314.0 | 316.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 4 | 24 |
| 97-4 | M706398 | 316.0 | 318.0 | 2.0 | 0.000 | 0.00 | 19 | 1 | 2 | 42 |
| 97-4 | M706399 | 318.0 | 320.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 24 |
| 97-4 | M706400 | 320.0 | 322.0 | 2.0 | 0.000 | 0.00 | 8 | 2 | 0 | 14 |
| 97-4 | M706401 | 322.0 | 324.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 16 |
| 97-4 | M706402 | 324.0 | 326.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 8 | 16 |
| 97-4 | M706403 | 326.0 | 328.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 0 | 22 |
| 97-4 | M706404 | 328.0 | 330.0 | 2.0 | 0.000 | 0.00 | 13 | 0 | 4 | 24 |
| 97-4 | M706405 | 330.0 | 332.0 | 2.0 | 0.000 | 0.00 | 8 | 0 | 2 | 24 |
| 97-4 | M706406 | 332.0 | 334.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 20 |
| 97-4 | M706407 | 334.0 | 336.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 0 | 22 |
| 97-4 | M706408 | 336.0 | 338.0 | 2.0 | 0.000 | 0.00 | 14 | 0 | 2 | 36 |
| 97-4 | M706409 | 338.0 | 340.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 28 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-4 | M706410 | 340.0 | 342.0 | 2.0 | 0.000 | 0.00 | 35 | 0 | 0 | 28 |
| 97-4 | M706411 | 342.0 | 344.0 | 2.0 | 0.000 | 0.00 | 16 | 0 | 2 | 166 |
| 97-4 | M706412 | 344.0 | 346.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 0 | 24 |
| 97-4 | M706413 | 346.0 | 348.0 | 2.0 | 0.000 | 0.00 | 8 | 1 | 0 | 36 |
| 97-4 | M706414 | 348.0 | 350.0 | 2.0 | 0.000 | 0.00 | 10 | 1 | 0 | 32 |
| 97-4 | M706415 | 350.0 | 352.0 | 2.0 | 0.000 | 0.00 | 4 | 3 | 0 | 32 |
| 97-4 | M706416 | 352.0 | 354.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 32 |
| 97-4 | M706417 | 354.0 | 356.0 | 2.0 | 0.000 | 0.00 | 6 | 2 | 0 | 30 |
| 97-4 | M706418 | 356.0 | 358.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 32 |
| 97-4 | M706419 | 358.0 | 360.0 | 2.0 | 0.000 | 0.00 | 24 | 1 | 0 | 112 |
| 97-4 | M706420 | 360.0 | 362.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 96 |
| 97-4 | M706421 | 362.0 | 364.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 0 | 34 |
| 97-4 | M706422 | 364.0 | 366.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 34 |
| 97-4 | M706423 | 366.0 | 368.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 0 | 30 |
| 97-4 | M706424 | 368.0 | 370.0 | 2.0 | 0.000 | 0.00 | 27 | 1 | 0 | 30 |
| 97-4 | M706425 | 370.0 | 372.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 0 | 30 |
| 97-4 | M706426 | 372.0 | 374.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 2 | 20 |
| 97-4 | M706427 | 374.0 | 376.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 0 | 20 |
| 97-4 | M706428 | 376.0 | 378.0 | 2.0 | 0.000 | 0.00 | 9 | 0 | 2 | 36 |
| 97-4 | M706429 | 378.0 | 380.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 0 | 32 |
| 97-4 | M706430 | 380.0 | 382.0 | 2.0 | 0.000 | 0.00 | 5 | 4 | 2 | 40 |
| 97-4 | M706431 | 382.0 | 384.0 | 2.0 | 0.000 | 0.00 | 6 | 3 | 0 | 32 |
| 97-4 | M706432 | 384.0 | 386.0 | 2.0 | 0.000 | 0.00 | 15 | 0 | 0 | 80 |
| 97-4 | M706433 | 386.0 | 388.0 | 2.0 | 0.000 | 0.00 | 11 | 0 | 2 | 28 |
| 97-4 | M706434 | 388.0 | 390.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 0 | 24 |
| 97-4 | M706435 | 390.0 | 390.7 | 0.7 | 0.000 | 0.00 | 3 | 1 | 0 | 34 |
| 97-5 | M706436 | 25.0 | 26.0 | 1.0 | 0.000 | 0.00 | 6 | 1 | 4 | 16 |
| 97-5 | M706437 | 26.0 | 28.0 | 2.0 | 0.000 | 0.20 | 5 | 6 | 0 | 18 |
| 97-5 | M706438 | 28.0 | 30.0 | 2.0 | 0.000 | 0.00 | 12 | 4 | 0 | 16 |
| 97-5 | M706439 | 30.0 | 32.0 | 2.0 | 0.000 | 0.00 | 36 | 6 | 2 | 66 |
| 97-5 | M706440 | 32.0 | 34.0 | 2.0 | 0.000 | 0.00 | 23 | 1 | 4 | 46 |
| 97-5 | M706441 | 34.0 | 36.0 | 2.0 | 0.000 | 0.00 | 11 | 1 | 0 | 26 |
| 97-5 | M706442 | 36.0 | 38.0 | 2.0 | 0.000 | 0.00 | 29 | 0 | 12 | 40 |
| 97-5 | M706443 | 38.0 | 40.0 | 2.0 | 0.000 | 0.00 | 27 | 0 | 8 | 14 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-5 | M706444 | 40.0 | 42.0 | 2.0 | 0.000 | 0.00 | 19 | 0 | 2 | 8 |
| 97-5 | M706445 | 42.0 | 44.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 12 |
| 97-5 | M706446 | 44.0 | 46.0 | 2.0 | 0.000 | 0.00 | 10 | 0 | 0 | 22 |
| 97-5 | M706447 | 46.0 | 48.0 | 2.0 | 0.000 | 0.00 | 28 | 0 | 0 | 18 |
| 97-5 | M706448 | 48.0 | 50.0 | 2.0 | 0.000 | 0.00 | 12 | 0 | 0 | 20 |
| 97-5 | M706449 | 50.0 | 52.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 0 | 12 |
| 97-5 | M706450 | 52.0 | 54.0 | 2.0 | 0.000 | 0.00 | 3 | 2 | 2 | 12 |
| 97-5 | M706451 | 54.0 | 56.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 0 | 8 |
| 97-5 | M706452 | 56.0 | 58.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 20 |
| 97-5 | M706453 | 58.0 | 60.0 | 2.0 | 0.000 | 0.00 | 3 | 3 | 0 | 30 |
| 97-5 | M706454 | 60.0 | 62.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 20 |
| 97-5 | M706455 | 62.0 | 64.0 | 2.0 | 0.000 | 1.00 | 28 | 56 | 2 | 14 |
| 97-5 | M706456 | 64.0 | 66.0 | 2.0 | 0.000 | 0.00 | 3 | 2 | 0 | 14 |
| 97-5 | M706457 | 66.0 | 68.0 | 2.0 | 0.000 | 0.00 | 26 | 2 | 0 | 16 |
| 97-5 | M706458 | 68.0 | 70.0 | 2.0 | 0.000 | 0.00 | 8 | 1 | 0 | 24 |
| 97-5 | M706459 | 70.0 | 72.0 | 2.0 | 0.000 | 0.00 | 12 | 1 | 0 | 20 |
| 97-5 | M706460 | 72.0 | 74.0 | 2.0 | 0.000 | 0.00 | 10 | 1 | 2 | 16 |
| 97-5 | M706461 | 74.0 | 76.0 | 2.0 | 0.000 | 0.00 | 20 | 0 | 0 | 12 |
| 97-5 | M706462 | 76.0 | 78.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 4 | 10 |
| 97-5 | M706463 | 78.0 | 80.0 | 2.0 | 0.000 | 0.00 | 21 | 3 | 0 | 12 |
| 97-5 | M706464 | 80.0 | 82.0 | 2.0 | 0.000 | 0.00 | 3 | 11 | 0 | 8 |
| 97-5 | M706465 | 82.0 | 84.0 | 2.0 | 0.000 | 0.00 | 8 | 1 | 0 | 18 |
| 97-5 | M706466 | 84.0 | 86.0 | 2.0 | 0.000 | 0.00 | 4 | 2 | 0 | 20 |
| 97-5 | M706467 | 86.0 | 88.0 | 2.0 | 0.000 | 0.00 | 3 | 5 | 0 | 14 |
| 97-5 | M706468 | 88.0 | 90.0 | 2.0 | 0.000 | 0.00 | 6 | 3 | 0 | 16 |
| 97-5 | M706469 | 90.0 | 92.0 | 2.0 | 0.000 | 0.00 | 6 | 34 | 2 | 14 |
| 97-5 | M706470 | 92.0 | 94.0 | 2.0 | 0.000 | 0.00 | 3 | 10 | 0 | 10 |
| 97-5 | M706471 | 94.0 | 96.0 | 2.0 | 0.000 | 0.00 | 7 | 19 | 0 | 12 |
| 97-5 | M706472 | 96.0 | 98.0 | 2.0 | 0.000 | 0.00 | 10 | 3 | 2 | 22 |
| 97-5 | M706473 | 98.0 | 100.0 | 2.0 | 0.000 | 0.00 | 8 | 4 | 0 | 28 |
| 97-5 | M706474 | 100.0 | 102.0 | 2.0 | 0.000 | 0.00 | 7 | 5 | 0 | 18 |
| 97-5 | M706475 | 102.0 | 104.0 | 2.0 | 0.000 | 0.00 | 4 | 6 | 0 | 14 |
| 97-5 | M706476 | 104.0 | 106.0 | 2.0 | 0.000 | 0.00 | 5 | 24 | 2 | 26 |
| 97-5 | M706477 | 106.0 | 108.0 | 2.0 | 0.000 | 0.00 | 5 | 5 | 2 | 24 |

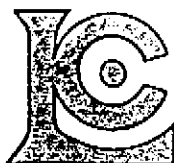
| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-5 | M706478 | 108.0 | 110.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 0 | 22 |
| 97-5 | M706479 | 110.0 | 112.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 2 | 22 |
| 97-5 | M706480 | 112.0 | 114.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 0 | 14 |
| 97-5 | M706481 | 114.0 | 116.0 | 2.0 | 0.000 | 0.00 | 4 | 16 | 2 | 22 |
| 97-5 | M706482 | 116.0 | 118.0 | 2.0 | 0.000 | 0.00 | 22 | 1 | 2 | 18 |
| 97-5 | M706483 | 118.0 | 120.0 | 2.0 | 0.000 | 0.00 | 7 | 11 | 0 | 22 |
| 97-5 | M706484 | 120.0 | 122.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 0 | 28 |
| 97-5 | M706485 | 122.0 | 124.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 0 | 26 |
| 97-5 | M706486 | 124.0 | 126.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 0 | 26 |
| 97-5 | M706487 | 126.0 | 128.0 | 2.0 | 0.000 | 0.00 | 4 | 2 | 0 | 20 |
| 97-5 | M706488 | 128.0 | 130.0 | 2.0 | 0.000 | 0.00 | 37 | 1 | 10 | 20 |
| 97-5 | M706489 | 130.0 | 132.0 | 2.0 | 0.000 | 0.00 | 6 | 4 | 0 | 24 |
| 97-5 | M706490 | 132.0 | 134.0 | 2.0 | 0.000 | 0.00 | 4 | 14 | 0 | 6 |
| 97-5 | M706491 | 134.0 | 136.0 | 2.0 | 0.000 | 0.00 | 2 | 1 | 0 | 14 |
| 97-5 | M706492 | 136.0 | 138.0 | 2.0 | 0.000 | 0.20 | 6 | 0 | 2 | 18 |
| 97-5 | M706493 | 138.0 | 140.0 | 2.0 | 0.000 | 0.00 | 7 | 3 | 0 | 12 |
| 97-5 | M706494 | 140.0 | 142.0 | 2.0 | 0.000 | 0.00 | 4 | 10 | 0 | 36 |
| 97-5 | M706495 | 142.0 | 144.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 2 | 28 |
| 97-5 | M706496 | 144.0 | 146.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 26 |
| 97-5 | M706497 | 146.0 | 148.0 | 2.0 | 0.000 | 0.00 | 4 | 3 | 4 | 12 |
| 97-5 | M706498 | 148.0 | 150.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 0 | 22 |
| 97-5 | M706499 | 150.0 | 152.0 | 2.0 | 0.000 | 0.00 | 15 | 2 | 0 | 20 |
| 97-5 | M706500 | 152.0 | 154.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 2 | 24 |
| 97-5 | M706501 | 154.0 | 156.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 26 |
| 97-5 | M706502 | 156.0 | 158.0 | 2.0 | 0.000 | 0.00 | 12 | 1 | 2 | 24 |
| 97-5 | M706503 | 158.0 | 160.0 | 2.0 | 0.000 | 0.20 | 20 | 3 | 6 | 34 |
| 97-5 | M706504 | 160.0 | 162.0 | 2.0 | 0.000 | 0.00 | 9 | 2 | 2 | 22 |
| 97-5 | M706505 | 162.0 | 164.0 | 2.0 | 0.000 | 0.00 | 8 | 1 | 2 | 24 |
| 97-5 | M706506 | 164.0 | 166.0 | 2.0 | 0.000 | 0.00 | 12 | 1 | 6 | 30 |
| 97-5 | M706507 | 166.0 | 168.0 | 2.0 | 0.000 | 0.00 | 11 | 0 | 0 | 30 |
| 97-5 | M706508 | 168.0 | 170.0 | 2.0 | 0.000 | 0.00 | 7 | 6 | 4 | 30 |
| 97-5 | M706509 | 170.0 | 172.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 34 |
| 97-5 | M706510 | 172.0 | 174.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 2 | 30 |
| 97-5 | M706511 | 174.0 | 176.0 | 2.0 | 0.000 | 0.00 | 13 | 0 | 0 | 28 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-5 | M706512 | 176.0 | 178.0 | 2.0 | 0.000 | 0.00 | 13 | 0 | 2 | 30 |
| 97-5 | M706513 | 178.0 | 180.0 | 2.0 | 0.000 | 0.00 | 6 | 1 | 2 | 22 |
| 97-5 | M706514 | 180.0 | 182.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 4 | 22 |
| 97-5 | M706515 | 182.0 | 184.0 | 2.0 | 0.000 | 0.00 | 6 | 2 | 2 | 18 |
| 97-5 | M706516 | 184.0 | 186.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 2 | 26 |
| 97-5 | M706517 | 186.0 | 188.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 2 | 22 |
| 97-5 | M706518 | 188.0 | 190.0 | 2.0 | 0.000 | 0.00 | 7 | 3 | 0 | 18 |
| 97-5 | M706519 | 190.0 | 192.0 | 2.0 | 0.000 | 0.00 | 45 | 3 | 2 | 26 |
| 97-5 | M706520 | 192.0 | 194.0 | 2.0 | 0.000 | 0.00 | 8 | 2 | 0 | 26 |
| 97-5 | M706521 | 194.0 | 196.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 0 | 22 |
| 97-5 | M706522 | 196.0 | 198.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 0 | 18 |
| 97-5 | M706523 | 198.0 | 200.0 | 2.0 | 0.000 | 0.00 | 15 | 0 | 4 | 28 |
| 97-5 | M706524 | 200.0 | 202.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 26 |
| 97-5 | M706525 | 202.0 | 204.0 | 2.0 | 0.000 | 0.00 | 10 | 4 | 4 | 26 |
| 97-5 | M706526 | 204.0 | 206.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 14 |
| 97-5 | M706527 | 206.0 | 208.0 | 2.0 | 0.000 | 0.00 | 14 | 0 | 4 | 18 |
| 97-5 | M706528 | 208.0 | 210.0 | 2.0 | 0.000 | 0.00 | 32 | 9 | 6 | 12 |
| 97-5 | M706529 | 210.0 | 212.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 0 | 22 |
| 97-5 | M706530 | 212.0 | 214.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 20 |
| 97-5 | M706531 | 214.0 | 216.0 | 2.0 | 0.000 | 0.00 | 20 | 1 | 4 | 18 |
| 97-5 | M706532 | 216.0 | 218.0 | 2.0 | 0.000 | 0.00 | 9 | 0 | 6 | 26 |
| 97-5 | M706533 | 218.0 | 220.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 2 | 26 |
| 97-5 | M706534 | 220.0 | 222.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 2 | 26 |
| 97-5 | M706535 | 222.0 | 224.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 2 | 24 |
| 97-5 | M706536 | 224.0 | 226.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 26 |
| 97-5 | M706537 | 226.0 | 228.0 | 2.0 | 0.000 | 0.00 | 8 | 4 | 4 | 28 |
| 97-5 | M706538 | 228.0 | 230.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 0 | 22 |
| 97-5 | M706539 | 230.0 | 232.0 | 2.0 | 0.000 | 0.00 | 5 | 4 | 0 | 32 |
| 97-5 | M706540 | 232.0 | 234.0 | 2.0 | 0.000 | 0.00 | 3 | 0 | 2 | 26 |
| 97-5 | M706541 | 234.0 | 236.0 | 2.0 | 0.000 | 0.00 | 4 | 14 | 2 | 30 |
| 97-5 | M706542 | 236.0 | 238.0 | 2.0 | 0.000 | 0.00 | 7 | 24 | 2 | 28 |
| 97-5 | M706543 | 238.0 | 240.0 | 2.0 | 0.000 | 0.00 | 10 | 5 | 2 | 30 |
| 97-5 | M706544 | 240.0 | 242.0 | 2.0 | 0.000 | 0.00 | 8 | 0 | 2 | 28 |
| 97-5 | M706545 | 242.0 | 244.0 | 2.0 | 0.000 | 0.00 | 9 | 3 | 0 | 30 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-5 | M706546 | 244.0 | 246.0 | 2.0 | 0.000 | 0.20 | 119 | 3 | 2 | 24 |
| 97-5 | M706547 | 246.0 | 248.0 | 2.0 | 0.000 | 0.00 | 12 | 4 | 0 | 16 |
| 97-5 | M706548 | 248.0 | 250.0 | 2.0 | 0.000 | 0.00 | 4 | 3 | 2 | 24 |
| 97-5 | M706549 | 250.0 | 252.0 | 2.0 | 0.000 | 0.00 | 7 | 9 | 2 | 30 |
| 97-5 | M706550 | 252.0 | 254.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 0 | 24 |
| 97-5 | M706551 | 254.0 | 256.0 | 2.0 | 0.000 | 0.00 | 9 | 3 | 6 | 18 |
| 97-5 | M706552 | 256.0 | 258.0 | 2.0 | 0.000 | 0.00 | 5 | 42 | 4 | 20 |
| 97-5 | M706553 | 258.0 | 260.0 | 2.0 | 0.000 | 0.00 | 6 | 6 | 4 | 18 |
| 97-5 | M706554 | 260.0 | 262.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 4 | 32 |
| 97-5 | M706555 | 262.0 | 264.0 | 2.0 | 0.000 | 0.00 | 7 | 1 | 4 | 30 |
| 97-5 | M706556 | 264.0 | 266.0 | 2.0 | 0.000 | 0.00 | 7 | 1 | 4 | 30 |
| 97-5 | M706557 | 266.0 | 268.0 | 2.0 | 0.000 | 0.00 | 5 | 2 | 4 | 26 |
| 97-5 | M706558 | 268.0 | 270.0 | 2.0 | 0.000 | 0.00 | 9 | 1 | 6 | 28 |
| 97-5 | M706559 | 270.0 | 272.0 | 2.0 | 0.000 | 0.00 | 9 | 3 | 2 | 18 |
| 97-5 | M706560 | 272.0 | 274.0 | 2.0 | 0.000 | 0.00 | 21 | 1 | 0 | 18 |
| 97-5 | M706561 | 274.0 | 276.0 | 2.0 | 0.000 | 0.00 | 11 | 3 | 4 | 28 |
| 97-5 | M706562 | 276.0 | 278.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 0 | 30 |
| 97-5 | M706563 | 278.0 | 280.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 2 | 42 |
| 97-5 | M706564 | 280.0 | 282.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 4 | 14 |
| 97-5 | M706565 | 282.0 | 284.0 | 2.0 | 0.000 | 0.00 | 7 | 12 | 4 | 20 |
| 97-5 | M706566 | 284.0 | 286.0 | 2.0 | 0.000 | 0.00 | 4 | 4 | 2 | 22 |
| 97-5 | M706567 | 286.0 | 288.0 | 2.0 | 0.000 | 0.00 | 7 | 4 | 2 | 12 |
| 97-5 | M706568 | 288.0 | 290.0 | 2.0 | 0.000 | 0.00 | 11 | 5 | 2 | 14 |
| 97-5 | M706569 | 290.0 | 292.0 | 2.0 | 0.000 | 0.00 | 5 | 7 | 4 | 20 |
| 97-5 | M706570 | 292.0 | 294.0 | 2.0 | 0.000 | 0.00 | 5 | 4 | 4 | 30 |
| 97-5 | M706571 | 294.0 | 296.0 | 2.0 | 0.000 | 0.00 | 7 | 1 | 2 | 14 |
| 97-5 | M706572 | 296.0 | 298.0 | 2.0 | 0.000 | 0.00 | 13 | 1 | 2 | 20 |
| 97-5 | M706573 | 298.0 | 300.0 | 2.0 | 0.000 | 0.00 | 7 | 1 | 2 | 24 |
| 97-5 | M706574 | 300.0 | 302.0 | 2.0 | 0.000 | 0.00 | 7 | 0 | 2 | 18 |
| 97-5 | M706575 | 302.0 | 304.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 32 |
| 97-5 | M706576 | 304.0 | 306.0 | 2.0 | 0.000 | 0.00 | 31 | 1 | 2 | 28 |
| 97-5 | M706577 | 306.0 | 308.0 | 2.0 | 0.000 | 0.00 | 6 | 0 | 2 | 24 |
| 97-5 | M706578 | 308.0 | 310.0 | 2.0 | 0.000 | 0.00 | 15 | 1 | 2 | 20 |
| 97-5 | M706579 | 310.0 | 312.0 | 2.0 | 0.000 | 0.00 | 4 | 1 | 2 | 22 |

| Drill Hole | Sample # | From (m) | To (m) | Interval (m) | Au (ppm) | Ag (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
|------------|----------|----------|--------|--------------|----------|----------|----------|----------|----------|----------|
| 97-5 | M706580 | 312.0 | 314.0 | 2.0 | 0.000 | 0.00 | 3 | 7 | 2 | 22 |
| 97-5 | M706581 | 314.0 | 316.0 | 2.0 | 0.000 | 0.00 | 20 | 0 | 2 | 30 |
| 97-5 | M706582 | 316.0 | 318.0 | 2.0 | 0.000 | 0.00 | 16 | 1 | 6 | 36 |
| 97-5 | M706583 | 318.0 | 320.0 | 2.0 | 0.000 | 0.20 | 10 | 3 | 6 | 12 |
| 97-5 | M706584 | 320.0 | 322.0 | 2.0 | 0.000 | 0.00 | 42 | 4 | 6 | 14 |
| 97-5 | M706585 | 322.0 | 324.0 | 2.0 | 0.000 | 0.00 | 7 | 6 | 2 | 22 |
| 97-5 | M706586 | 324.0 | 326.0 | 2.0 | 0.000 | 0.00 | 8 | 2 | 2 | 14 |
| 97-5 | M706587 | 326.0 | 328.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 4 | 16 |
| 97-5 | M706588 | 328.0 | 330.0 | 2.0 | 0.000 | 0.00 | 12 | 7 | 4 | 20 |
| 97-5 | M706589 | 330.0 | 332.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 24 |
| 97-5 | M706590 | 332.0 | 334.0 | 2.0 | 0.000 | 0.00 | 5 | 3 | 2 | 14 |
| 97-5 | M706591 | 334.0 | 336.0 | 2.0 | 0.000 | 0.00 | 5 | 0 | 2 | 26 |
| 97-5 | M706592 | 336.0 | 338.0 | 2.0 | 0.000 | 0.00 | 6 | 6 | 6 | 24 |
| 97-5 | M706593 | 338.0 | 340.0 | 2.0 | 0.000 | 0.00 | 4 | 0 | 2 | 26 |
| 97-5 | M706594 | 340.0 | 342.0 | 2.0 | 0.000 | 0.00 | 5 | 1 | 2 | 26 |
| 97-5 | M706595 | 342.0 | 344.0 | 2.0 | 0.000 | 0.00 | 10 | 1 | 2 | 26 |
| 97-5 | M706596 | 344.0 | 346.0 | 2.0 | 0.000 | 0.00 | 3 | 1 | 2 | 10 |

Appendix 4 Certificates of Analyses



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
V7Y 1B6

A9747428

Comments: ATTN:LEO KING/MORGAN POLIQUIN

CERTIFICATE

A9747428

(PFM) - ALMADEN RESOURCES CORP.

Project: MUNRO
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 26-OCT-97.

SAMPLE PREPARATION

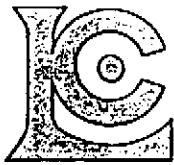
| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|-------------|----------------|---------------------------------|
| 205 | 160 | Geochem ring to approx 150 mesh |
| 294 | 160 | 4-7 Kg crush and split |
| 3202 | 160 | Rock - save entire reject |
| 229 | 160 | ICP - AQ Digestion charge |

* NOTE 1:

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

ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|----------------------------------|---------|-----------------|-------------|
| 983 | 160 | Au ppb: Fuse 30 g sample | FA-AAS | 5 | 10000 |
| 2118 | 160 | Ag ppm: 32 element, soil & rock | ICP-AES | 0.2 | 100.0 |
| 2119 | 160 | Al %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2120 | 160 | As ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2121 | 160 | Ba ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2122 | 160 | Be ppm: 32 element, soil & rock | ICP-AES | 0.5 | 100.0 |
| 2123 | 160 | Bi ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2124 | 160 | Ca %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2125 | 160 | Cd ppm: 32 element, soil & rock | ICP-AES | 0.5 | 100.0 |
| 2126 | 160 | Co ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2127 | 160 | Cr ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2128 | 160 | Cu ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2150 | 160 | Fe %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2130 | 160 | Ga ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2131 | 160 | Hg ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2132 | 160 | K %: 32 element, soil & rock | ICP-AES | 0.01 | 10.00 |
| 2151 | 160 | La ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2134 | 160 | Mg %: 32 element, soil & rock | ICP-AES | 0.01 | 15.00 |
| 2135 | 160 | Mn ppm: 32 element, soil & rock | ICP-AES | 5 | 10000 |
| 2136 | 160 | Mo ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2137 | 160 | Na %: 32 element, soil & rock | ICP-AES | 0.01 | 5.00 |
| 2138 | 160 | Ni ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2139 | 160 | P ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2140 | 160 | Pb ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2141 | 160 | Sb ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |
| 2142 | 160 | Sc ppm: 32 elements, soil & rock | ICP-AES | 1 | 10000 |
| 2143 | 160 | Sr ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2144 | 160 | Ti %: 32 element, soil & rock | ICP-AES | 0.01 | 5.00 |
| 2145 | 160 | Tl ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2146 | 160 | U ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2147 | 160 | V ppm: 32 element, soil & rock | ICP-AES | 1 | 10000 |
| 2148 | 160 | W ppm: 32 element, soil & rock | ICP-AES | 10 | 10000 |
| 2149 | 160 | Zn ppm: 32 element, soil & rock | ICP-AES | 2 | 10000 |



Chemex Labs Ltd.

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :1-A
 Total Pages :4
 Certificate Date:26-OCT-97
 Invoice No. :I9747428
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS A9747428

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| M706001 | 205 294 | < 5 | < 0.2 | 0.86 | 2 | 80 | < 0.5 | < 2 | 0.88 | 1.0 | 3 | 88 | 70 | 1.38 | < 10 | < 1 | 0.39 | < 10 | 0.29 | 505 |
| M706002 | 205 294 | < 5 | 0.6 | 1.10 | 2 | 110 | < 0.5 | 8 | 0.97 | 4.0 | 3 | 92 | 184 | 1.68 | < 10 | < 1 | 0.53 | < 10 | 0.28 | 550 |
| M706003 | 205 294 | < 5 | 0.4 | 1.05 | < 2 | 100 | < 0.5 | 16 | 1.41 | 1.5 | 4 | 76 | 137 | 1.74 | < 10 | < 1 | 0.43 | < 10 | 0.39 | 715 |
| M706004 | 205 294 | < 5 | 0.2 | 1.16 | < 2 | 120 | < 0.5 | < 2 | 0.98 | 1.0 | 3 | 84 | 105 | 1.79 | < 10 | < 1 | 0.49 | 10 | 0.41 | 530 |
| M706005 | 205 294 | < 5 | < 0.2 | 1.02 | 2 | 130 | < 0.5 | 2 | 0.95 | 1.5 | 4 | 81 | 50 | 1.70 | < 10 | 1 | 0.46 | < 10 | 0.39 | 520 |
| M706006 | 205 294 | < 5 | < 0.2 | 1.16 | < 2 | 130 | < 0.5 | 6 | 0.91 | 1.0 | 3 | 87 | 41 | 1.79 | < 10 | 1 | 0.51 | < 10 | 0.38 | 475 |
| M706007 | 205 294 | < 5 | < 0.2 | 1.16 | < 2 | 190 | < 0.5 | 8 | 0.91 | 1.0 | 3 | 97 | 130 | 1.76 | < 10 | 1 | 0.49 | < 10 | 0.41 | 440 |
| M706008 | 205 294 | < 5 | < 0.2 | 1.23 | < 2 | 170 | < 0.5 | < 2 | 1.01 | 2.0 | 4 | 86 | 87 | 1.82 | < 10 | 1 | 0.57 | < 10 | 0.42 | 450 |
| M706009 | 205 294 | < 5 | 0.2 | 1.23 | < 2 | 160 | < 0.5 | < 2 | 1.01 | 2.5 | 4 | 84 | 142 | 1.92 | < 10 | < 1 | 0.47 | 10 | 0.47 | 515 |
| M706010 | 205 294 | < 5 | 0.2 | 1.23 | < 2 | 130 | < 0.5 | 12 | 1.23 | 1.0 | 3 | 84 | 75 | 1.65 | < 10 | 1 | 0.47 | 10 | 0.38 | 490 |
| M706011 | 205 294 | < 5 | 0.6 | 1.16 | < 2 | 180 | < 0.5 | 16 | 0.99 | 5.5 | 4 | 89 | 224 | 1.76 | < 10 | < 1 | 0.50 | < 10 | 0.38 | 475 |
| M706012 | 205 294 | < 5 | < 0.2 | 1.12 | < 2 | 180 | < 0.5 | 2 | 0.94 | 1.5 | 4 | 77 | 61 | 1.71 | < 10 | 1 | 0.49 | < 10 | 0.38 | 485 |
| M706013 | 205 294 | < 5 | 0.2 | 1.09 | < 2 | 110 | < 0.5 | < 2 | 0.95 | 0.5 | 3 | 90 | 97 | 1.57 | < 10 | < 1 | 0.43 | < 10 | 0.34 | 470 |
| M706014 | 205 294 | < 5 | 0.6 | 1.23 | < 2 | 110 | 0.5 | < 2 | 1.33 | < 0.5 | 3 | 75 | 72 | 1.77 | < 10 | < 1 | 0.46 | 10 | 0.32 | 685 |
| M706015 | 205 294 | < 5 | 0.6 | 1.07 | 4 | 80 | 0.5 | 4 | 1.18 | < 0.5 | 3 | 76 | 59 | 1.80 | < 10 | < 1 | 0.47 | < 10 | 0.28 | 550 |
| M706016 | 205 294 | < 5 | 0.6 | 1.18 | < 2 | 90 | 0.5 | 2 | 1.23 | 0.5 | 3 | 78 | 79 | 2.13 | < 10 | 1 | 0.63 | < 10 | 0.21 | 665 |
| M706017 | 205 294 | < 5 | 0.6 | 0.92 | < 2 | 180 | 0.5 | 10 | 1.24 | < 0.5 | 3 | 74 | 82 | 1.88 | < 10 | < 1 | 0.48 | < 10 | 0.17 | 595 |
| M706018 | 205 294 | < 5 | 0.2 | 0.88 | < 2 | 60 | 0.5 | < 2 | 0.94 | < 0.5 | 1 | 83 | 41 | 1.14 | < 10 | 2 | 0.35 | < 10 | 0.19 | 450 |
| M706019 | 205 294 | < 5 | 0.8 | 0.99 | < 2 | 90 | 0.5 | 4 | 1.35 | 0.5 | 4 | 80 | 144 | 1.79 | < 10 | < 1 | 0.42 | < 10 | 0.25 | 595 |
| M706020 | 205 294 | < 5 | 0.2 | 1.17 | < 2 | 80 | 0.5 | < 2 | 1.74 | 1.0 | 3 | 83 | 53 | 1.64 | < 10 | < 1 | 0.43 | < 10 | 0.34 | 730 |
| M706021 | 205 294 | < 5 | 0.6 | 1.15 | < 2 | 70 | 0.5 | 2 | 1.69 | 1.5 | 4 | 83 | 93 | 1.69 | < 10 | < 1 | 0.49 | < 10 | 0.28 | 695 |
| M706022 | 205 294 | < 5 | 0.2 | 1.20 | < 2 | 120 | < 0.5 | < 2 | 1.40 | 0.5 | 4 | 87 | 31 | 1.61 | < 10 | < 1 | 0.50 | < 10 | 0.29 | 535 |
| M706023 | 205 294 | < 5 | 0.4 | 1.20 | < 2 | 80 | 0.5 | < 2 | 1.99 | 0.5 | 3 | 96 | 30 | 1.50 | < 10 | < 1 | 0.44 | < 10 | 0.32 | 685 |
| M706024 | 205 294 | < 5 | 0.6 | 1.29 | < 2 | 90 | 0.5 | < 2 | 1.50 | < 0.5 | 4 | 96 | 69 | 1.60 | < 10 | 1 | 0.50 | 10 | 0.33 | 495 |
| M706025 | 205 294 | < 5 | 0.2 | 1.11 | < 2 | 90 | < 0.5 | < 2 | 1.17 | < 0.5 | 3 | 91 | 45 | 1.65 | < 10 | < 1 | 0.43 | < 10 | 0.36 | 420 |
| M706026 | 205 294 | < 5 | 0.8 | 1.10 | < 2 | 100 | 0.5 | 4 | 1.23 | < 0.5 | 3 | 91 | 48 | 1.64 | < 10 | < 1 | 0.46 | < 10 | 0.32 | 500 |
| M706027 | 205 294 | < 5 | 1.2 | 1.05 | < 2 | 120 | 0.5 | < 2 | 1.58 | 0.5 | 3 | 83 | 89 | 1.65 | < 10 | < 1 | 0.46 | < 10 | 0.27 | 850 |
| M706028 | 205 294 | < 5 | 0.2 | 1.21 | < 2 | 250 | 0.5 | 10 | 1.24 | < 0.5 | 3 | 87 | 23 | 1.70 | < 10 | < 1 | 0.46 | 10 | 0.35 | 455 |
| M706029 | 205 294 | < 5 | < 0.2 | 1.09 | < 2 | 100 | < 0.5 | < 2 | 0.94 | < 0.5 | 3 | 77 | 27 | 1.55 | < 10 | < 1 | 0.34 | < 10 | 0.39 | 370 |
| M706030 | 205 294 | < 5 | < 0.2 | 0.96 | < 2 | 80 | 0.5 | 2 | 1.21 | < 0.5 | 3 | 73 | 38 | 1.54 | < 10 | < 1 | 0.42 | < 10 | 0.28 | 405 |
| M706031 | 205 294 | < 5 | < 0.2 | 0.90 | < 2 | 210 | < 0.5 | < 2 | 0.87 | < 0.5 | 3 | 77 | 32 | 1.60 | < 10 | < 1 | 0.34 | < 10 | 0.40 | 350 |
| M706032 | 205 294 | < 5 | < 0.2 | 1.07 | < 2 | 150 | < 0.5 | 4 | 1.08 | < 0.5 | 3 | 88 | 66 | 1.67 | < 10 | < 1 | 0.42 | < 10 | 0.37 | 365 |
| M706033 | 205 294 | < 5 | < 0.2 | 0.94 | < 2 | 220 | < 0.5 | < 2 | 0.91 | < 0.5 | 4 | 83 | 36 | 1.62 | < 10 | < 1 | 0.35 | < 10 | 0.42 | 360 |
| M706034 | 205 294 | < 5 | < 0.2 | 1.02 | < 2 | 230 | 0.5 | < 2 | 1.21 | < 0.5 | 4 | 71 | 45 | 1.96 | < 10 | < 1 | 0.40 | 10 | 0.34 | 325 |
| M706035 | 205 294 | < 5 | 0.2 | 1.02 | < 2 | 240 | < 0.5 | 4 | 1.17 | < 0.5 | 4 | 84 | 75 | 1.70 | < 10 | < 1 | 0.37 | < 10 | 0.38 | 345 |
| M706036 | 205 294 | < 5 | < 0.2 | 1.17 | < 2 | 150 | 0.5 | < 2 | 0.94 | < 0.5 | 4 | 91 | 31 | 1.88 | < 10 | < 1 | 0.49 | < 10 | 0.43 | 375 |
| M706037 | 205 294 | < 5 | < 0.2 | 1.13 | < 2 | 180 | < 0.5 | < 2 | 1.13 | < 0.5 | 4 | 76 | 56 | 1.66 | < 10 | < 1 | 0.40 | < 10 | 0.42 | 370 |
| M706038 | 205 294 | < 5 | 0.2 | 1.35 | < 2 | 220 | 0.5 | 2 | 1.14 | 1.0 | 4 | 93 | 63 | 2.34 | < 10 | < 1 | 0.49 | < 10 | 0.43 | 370 |
| M706039 | 205 294 | < 5 | < 0.2 | 1.25 | < 2 | 940 | 0.5 | < 2 | 1.90 | < 0.5 | 3 | 88 | 28 | 1.43 | < 10 | 1 | 0.40 | 10 | 0.35 | 520 |
| M706040 | 205 294 | < 5 | < 0.2 | 1.09 | < 2 | 90 | 0.5 | < 2 | 1.31 | < 0.5 | 3 | 91 | 16 | 1.64 | < 10 | < 1 | 0.43 | 10 | 0.37 | 490 |

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
V7Y 1B6

Project: MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number : 1-B
Total Pages : 4
Certificate Date: 26-OCT-97
Invoice No. : 19747428
P.O. Number :
Account : PFM

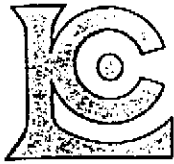
CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|-----------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|------|
| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706001 | 205 | 294 | 36 | 0.04 | 3 | 330 | 4 | < 2 | 1 | 81 | 0.01 | < 10 | < 10 | 17 | < 10 | 590 |
| M706002 | 205 | 294 | 11 | 0.04 | 7 | 350 | 8 | < 2 | 1 | 82 | < 0.01 | < 10 | < 10 | 16 | < 10 | 2080 |
| M706003 | 205 | 294 | 33 | 0.05 | 5 | 420 | 6 | < 2 | 2 | 125 | 0.02 | < 10 | < 10 | 21 | < 10 | 794 |
| M706004 | 205 | 294 | < 1 | 0.06 | 4 | 430 | 4 | < 2 | 2 | 82 | 0.03 | < 10 | < 10 | 23 | < 10 | 488 |
| M706005 | 205 | 294 | < 1 | 0.05 | 5 | 390 | < 2 | < 2 | 2 | 76 | 0.04 | < 10 | < 10 | 23 | < 10 | 638 |
| M706006 | 205 | 294 | 1 | 0.06 | 4 | 400 | 2 | < 2 | 2 | 66 | 0.03 | < 10 | < 10 | 23 | < 10 | 572 |
| M706007 | 205 | 294 | < 1 | 0.06 | 4 | 420 | 2 | < 2 | 2 | 81 | 0.04 | < 10 | < 10 | 24 | < 10 | 600 |
| M706008 | 205 | 294 | < 1 | 0.05 | 5 | 450 | < 2 | < 2 | 2 | 81 | 0.04 | < 10 | < 10 | 27 | < 10 | 1190 |
| M706009 | 205 | 294 | < 1 | 0.04 | 5 | 400 | 6 | < 2 | 3 | 104 | 0.03 | < 10 | < 10 | 25 | < 10 | 1505 |
| M706010 | 205 | 294 | 129 | 0.05 | 4 | 390 | 14 | < 2 | 1 | 160 | 0.01 | < 10 | < 10 | 20 | < 10 | 686 |
| M706011 | 205 | 294 | < 1 | 0.05 | 4 | 380 | 10 | < 2 | 2 | 113 | 0.03 | < 10 | < 10 | 22 | < 10 | 3150 |
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| M706013 | 205 | 294 | < 1 | 0.05 | 3 | 330 | 6 | < 2 | 2 | 141 | 0.01 | < 10 | < 10 | 19 | < 10 | 310 |
| M706014 | 205 | 294 | < 1 | 0.03 | 4 | 360 | 14 | < 2 | 1 | 204 | < 0.01 | < 10 | < 10 | 15 | < 10 | 174 |
| M706015 | 205 | 294 | 4 | 0.03 | 3 | 410 | 12 | < 2 | 1 | 149 | 0.01 | < 10 | < 10 | 15 | < 10 | 164 |
| M706016 | 205 | 294 | 1 | 0.03 | 3 | 410 | 12 | < 2 | 1 | 101 | < 0.01 | < 10 | < 10 | 12 | < 10 | 252 |
| M706017 | 205 | 294 | 18 | 0.02 | 3 | 360 | 14 | < 2 | < 1 | 122 | < 0.01 | < 10 | < 10 | 10 | < 10 | 268 |
| M706018 | 205 | 294 | < 1 | 0.05 | 3 | 230 | 6 | < 2 | < 1 | 120 | < 0.01 | < 10 | < 10 | 10 | < 10 | 204 |
| M706019 | 205 | 294 | < 1 | 0.03 | 3 | 400 | 16 | < 2 | 1 | 184 | < 0.01 | < 10 | < 10 | 13 | < 10 | 388 |
| M706020 | 205 | 294 | < 1 | 0.03 | 4 | 410 | 6 | < 2 | 1 | 190 | < 0.01 | < 10 | < 10 | 16 | < 10 | 642 |
| M706021 | 205 | 294 | 6 | 0.03 | 3 | 420 | 14 | < 2 | 1 | 167 | < 0.01 | < 10 | < 10 | 15 | < 10 | 884 |
| M706022 | 205 | 294 | < 1 | 0.04 | 4 | 370 | 10 | < 2 | 1 | 149 | < 0.01 | < 10 | < 10 | 16 | < 10 | 396 |
| M706023 | 205 | 294 | < 1 | 0.03 | 3 | 400 | 10 | < 2 | 1 | 222 | < 0.01 | < 10 | < 10 | 16 | < 10 | 354 |
| M706024 | 205 | 294 | 5 | 0.05 | 4 | 450 | 14 | < 2 | 1 | 164 | < 0.01 | < 10 | < 10 | 18 | < 10 | 204 |
| M706025 | 205 | 294 | < 1 | 0.05 | 3 | 420 | 12 | < 2 | 1 | 121 | 0.01 | < 10 | < 10 | 20 | < 10 | 90 |
| M706026 | 205 | 294 | 4 | 0.06 | 3 | 400 | 22 | < 2 | 1 | 129 | 0.01 | < 10 | < 10 | 17 | < 10 | 84 |
| M706027 | 205 | 294 | 13 | 0.03 | 3 | 400 | 46 | < 2 | 1 | 245 | < 0.01 | < 10 | < 10 | 10 | < 10 | 210 |
| M706028 | 205 | 294 | 1 | 0.05 | 4 | 400 | 12 | < 2 | 1 | 259 | 0.01 | < 10 | < 10 | 19 | < 10 | 90 |
| M706029 | 205 | 294 | < 1 | 0.04 | 3 | 390 | 6 | < 2 | 1 | 148 | 0.01 | < 10 | < 10 | 21 | < 10 | 86 |
| M706030 | 205 | 294 | < 1 | 0.04 | 3 | 400 | 8 | < 2 | 1 | 110 | < 0.01 | < 10 | < 10 | 15 | < 10 | 90 |
| M706031 | 205 | 294 | < 1 | 0.05 | 3 | 420 | 2 | < 2 | 2 | 137 | 0.03 | < 10 | < 10 | 22 | < 10 | 78 |
| M706032 | 205 | 294 | < 1 | 0.06 | 4 | 420 | 6 | < 2 | 2 | 96 | 0.01 | < 10 | < 10 | 22 | < 10 | 98 |
| M706033 | 205 | 294 | < 1 | 0.06 | 3 | 420 | 2 | < 2 | 2 | 142 | 0.03 | < 10 | < 10 | 24 | < 10 | 86 |
| M706034 | 205 | 294 | < 1 | 0.06 | 3 | 430 | 8 | < 2 | 1 | 263 | 0.01 | < 10 | < 10 | 18 | < 10 | 98 |
| M706035 | 205 | 294 | < 1 | 0.05 | 4 | 420 | 12 | < 2 | 2 | 254 | 0.02 | < 10 | < 10 | 21 | < 10 | 124 |
| M706036 | 205 | 294 | < 1 | 0.07 | 4 | 450 | 6 | < 2 | 3 | 92 | 0.05 | < 10 | < 10 | 27 | < 10 | 112 |
| M706037 | 205 | 294 | 1 | 0.05 | 3 | 440 | 8 | < 2 | 2 | 147 | 0.03 | < 10 | < 10 | 24 | < 10 | 122 |
| M706038 | 205 | 294 | 8 | 0.06 | 4 | 460 | 28 | < 2 | 3 | 261 | 0.03 | < 10 | < 10 | 25 | < 10 | 590 |
| M706039 | 205 | 294 | 88 | 0.04 | 3 | 460 | 16 | < 2 | 1 | 283 | < 0.01 | < 10 | < 10 | 16 | < 10 | 124 |
| M706040 | 205 | 294 | 27 | 0.06 | 3 | 480 | 8 | < 2 | 2 | 132 | 0.01 | < 10 | < 10 | 20 | < 10 | 82 |

CERTIFICATION:

Leo King



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :2-A
 Total Pages :4
 Certificate Date:26-OCT-97
 Invoice No. :19747428
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS A9747428

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | | | FA+AA | | | | | | | | | | | | | | | | | | |
| M706041 | 205 | 294 | < 5 | 0.2 | 0.88 | 8 | 80 | 0.5 | < 2 | 1.20 | < 0.5 | 4 | 86 | 26 | 1.73 | < 10 | 1 | 0.35 | < 10 | 0.33 | 465 |
| M706042 | 205 | 294 | < 5 | 0.2 | 0.96 | 14 | 210 | 0.5 | < 2 | 1.31 | < 0.5 | 3 | 84 | 41 | 1.79 | < 10 | < 1 | 0.43 | < 10 | 0.30 | 475 |
| M706043 | 205 | 294 | < 5 | 0.4 | 0.91 | 4 | 80 | 1.0 | < 2 | 1.63 | < 0.5 | 3 | 93 | 49 | 1.64 | < 10 | < 1 | 0.35 | < 10 | 0.31 | 485 |
| M706044 | 205 | 294 | < 5 | < 0.2 | 0.95 | < 2 | 180 | 0.5 | < 2 | 1.16 | < 0.5 | 3 | 85 | 59 | 1.60 | < 10 | < 1 | 0.38 | < 10 | 0.32 | 420 |
| M706045 | 205 | 294 | < 5 | < 0.2 | 0.75 | 4 | 170 | 0.5 | < 2 | 1.06 | < 0.5 | 3 | 69 | 46 | 1.51 | < 10 | < 1 | 0.35 | < 10 | 0.28 | 435 |
| M706046 | 205 | 294 | < 5 | 0.2 | 0.87 | 4 | 90 | 0.5 | < 2 | 1.27 | < 0.5 | 3 | 91 | 43 | 1.52 | < 10 | < 1 | 0.37 | < 10 | 0.26 | 490 |
| M706047 | 205 | 294 | < 5 | 0.2 | 0.93 | < 2 | 170 | 0.5 | < 2 | 1.52 | < 0.5 | 3 | 92 | 21 | 1.39 | < 10 | < 1 | 0.37 | < 10 | 0.27 | 685 |
| M706048 | 205 | 294 | < 5 | 0.2 | 0.92 | 2 | 60 | 1.0 | < 2 | 1.28 | < 0.5 | 4 | 81 | 26 | 1.78 | < 10 | < 1 | 0.40 | < 10 | 0.21 | 780 |
| M706049 | 205 | 294 | < 5 | 0.2 | 1.01 | < 2 | 60 | 1.0 | < 2 | 1.61 | < 0.5 | 4 | 97 | 56 | 1.95 | < 10 | < 1 | 0.49 | < 10 | 0.23 | 1495 |
| M706050 | 205 | 294 | < 5 | 0.2 | 1.18 | < 2 | 90 | 0.5 | < 2 | 1.53 | < 0.5 | 3 | 90 | 41 | 1.57 | < 10 | < 1 | 0.46 | < 10 | 0.28 | 1040 |
| M706051 | 205 | 294 | < 5 | 0.2 | 1.14 | < 2 | 60 | 0.5 | < 2 | 1.56 | < 0.5 | 3 | 93 | 14 | 1.69 | < 10 | 1 | 0.37 | < 10 | 0.32 | 1085 |
| M706052 | 205 | 294 | < 5 | 0.4 | 1.03 | 2 | 60 | 0.5 | < 2 | 1.54 | < 0.5 | 3 | 75 | 20 | 1.51 | < 10 | < 1 | 0.41 | < 10 | 0.26 | 1050 |
| M706053 | 205 | 294 | < 5 | 0.6 | 0.99 | 2 | 70 | 0.5 | < 2 | 1.58 | 1.5 | 3 | 79 | 40 | 1.83 | < 10 | < 1 | 0.35 | < 10 | 0.29 | 2270 |
| M706054 | 205 | 294 | < 5 | 3.0 | 0.97 | < 2 | 90 | 1.0 | 6 | 2.16 | 2.5 | 3 | 84 | 225 | 2.65 | < 10 | 1 | 0.37 | 10 | 0.19 | 3020 |
| M706055 | 205 | 294 | < 5 | 0.8 | 0.76 | < 2 | 60 | 1.0 | 2 | 2.09 | 0.5 | 3 | 75 | 94 | 1.59 | < 10 | < 1 | 0.35 | 10 | 0.13 | 1755 |
| M706056 | 205 | 294 | < 5 | 0.6 | 1.02 | < 2 | 70 | 0.5 | 2 | 1.24 | < 0.5 | 3 | 75 | 118 | 1.38 | < 10 | < 1 | 0.29 | 10 | 0.27 | 585 |
| M706057 | 205 | 294 | < 5 | < 0.2 | 1.01 | < 2 | 150 | < 0.5 | < 2 | 0.93 | < 0.5 | 3 | 80 | 117 | 1.39 | < 10 | < 1 | 0.30 | 10 | 0.27 | 400 |
| M706058 | 205 | 294 | < 5 | 0.4 | 0.85 | < 2 | 90 | < 0.5 | < 2 | 1.08 | < 0.5 | 3 | 68 | 156 | 1.49 | < 10 | < 1 | 0.32 | 10 | 0.22 | 435 |
| M706059 | 205 | 294 | < 5 | 0.8 | 0.93 | < 2 | 70 | 0.5 | < 2 | 1.22 | < 0.5 | 3 | 109 | 291 | 2.12 | < 10 | < 1 | 0.45 | 10 | 0.13 | 480 |
| M706060 | 205 | 294 | < 5 | 0.2 | 0.96 | < 2 | 90 | 0.5 | < 2 | 1.27 | < 0.5 | 4 | 64 | 53 | 1.60 | < 10 | < 1 | 0.37 | < 10 | 0.22 | 420 |
| M706061 | 205 | 294 | < 5 | 0.2 | 1.14 | < 2 | 80 | < 0.5 | 2 | 0.96 | < 0.5 | 5 | 82 | 113 | 2.43 | < 10 | 1 | 0.31 | < 10 | 0.40 | 350 |
| M706062 | 205 | 294 | < 5 | < 0.2 | 1.03 | < 2 | 70 | < 0.5 | < 2 | 0.99 | < 0.5 | 4 | 70 | 57 | 1.85 | < 10 | < 1 | 0.32 | < 10 | 0.36 | 360 |
| M706063 | 205 | 294 | < 5 | < 0.2 | 0.97 | < 2 | 60 | < 0.5 | < 2 | 0.99 | < 0.5 | 4 | 88 | 24 | 3.87 | < 10 | < 1 | 0.35 | < 10 | 0.32 | 355 |
| M706064 | 205 | 294 | < 5 | 0.2 | 1.15 | < 2 | 80 | 0.5 | 2 | 1.18 | < 0.5 | 4 | 69 | 103 | 2.01 | < 10 | < 1 | 0.39 | < 10 | 0.36 | 400 |
| M706065 | 205 | 294 | < 5 | 0.4 | 1.09 | 2 | 250 | 0.5 | < 2 | 1.31 | < 0.5 | 3 | 86 | 86 | 2.19 | < 10 | < 1 | 0.38 | < 10 | 0.26 | 465 |
| M706066 | 205 | 294 | < 5 | 0.6 | 2.16 | < 2 | 400 | 0.5 | < 2 | 1.32 | < 0.5 | 3 | 62 | 129 | 1.75 | < 10 | 1 | 0.40 | 10 | 0.25 | 410 |
| M706067 | 205 | 294 | < 5 | < 0.2 | 2.46 | < 2 | 740 | 0.5 | < 2 | 1.49 | < 0.5 | 3 | 29 | 23 | 1.38 | < 10 | < 1 | 0.20 | 10 | 0.28 | 430 |
| M706068 | 205 | 294 | < 5 | 0.6 | 1.16 | < 2 | 180 | 0.5 | 2 | 1.29 | < 0.5 | 3 | 58 | 183 | 1.56 | < 10 | < 1 | 0.31 | 10 | 0.30 | 525 |
| M706069 | 205 | 294 | < 5 | < 0.2 | 1.03 | < 2 | 60 | < 0.5 | < 2 | 1.21 | < 0.5 | 3 | 78 | 37 | 1.54 | < 10 | 1 | 0.29 | < 10 | 0.45 | 475 |
| M706070 | 205 | 294 | < 5 | 0.2 | 0.86 | < 2 | 60 | 0.5 | < 2 | 1.87 | < 0.5 | 3 | 55 | 73 | 1.40 | < 10 | < 1 | 0.39 | < 10 | 0.24 | 585 |
| M706071 | 205 | 294 | < 5 | 0.4 | 0.72 | < 2 | 50 | < 0.5 | < 2 | 1.09 | < 0.5 | 2 | 71 | 51 | 1.35 | < 10 | < 1 | 0.26 | < 10 | 0.23 | 340 |
| M706072 | 205 | 294 | < 5 | < 0.2 | 1.07 | 2 | 60 | 0.5 | < 2 | 1.34 | < 0.5 | 3 | 45 | 53 | 1.65 | < 10 | 1 | 0.24 | < 10 | 0.35 | 365 |
| M706073 | 205 | 294 | < 5 | 0.2 | 0.99 | < 2 | 70 | < 0.5 | < 2 | 1.24 | < 0.5 | 4 | 81 | 237 | 2.11 | < 10 | < 1 | 0.33 | < 10 | 0.33 | 405 |
| M706074 | 205 | 294 | < 5 | 0.6 | 0.84 | < 2 | 60 | < 0.5 | < 2 | 1.02 | < 0.5 | 3 | 74 | 143 | 1.55 | < 10 | < 1 | 0.28 | < 10 | 0.32 | 410 |
| M706075 | 205 | 294 | < 5 | 0.8 | 1.05 | < 2 | 80 | < 0.5 | < 2 | 0.74 | < 0.5 | 4 | 52 | 99 | 2.29 | < 10 | < 1 | 0.40 | 10 | 0.37 | 295 |
| M706076 | 205 | 294 | < 5 | < 0.2 | 0.92 | < 2 | 100 | < 0.5 | < 2 | 0.55 | < 0.5 | 3 | 72 | 50 | 1.85 | < 10 | < 1 | 0.37 | < 10 | 0.44 | 340 |
| M706077 | 205 | 294 | < 5 | 0.2 | 1.12 | < 2 | 90 | < 0.5 | < 2 | 0.71 | < 0.5 | 4 | 87 | 99 | 1.97 | < 10 | < 1 | 0.39 | < 10 | 0.46 | 375 |
| M706078 | 205 | 294 | < 5 | 0.4 | 1.06 | < 2 | 80 | 0.5 | < 2 | 0.96 | < 0.5 | 3 | 80 | 189 | 2.57 | < 10 | < 1 | 0.44 | < 10 | 0.31 | 525 |
| M706079 | 205 | 294 | < 5 | 1.4 | 0.68 | < 2 | 80 | < 0.5 | < 2 | 0.50 | < 0.5 | 2 | 81 | 84 | 3.81 | < 10 | < 1 | 0.36 | 10 | 0.09 | 490 |
| M706080 | 205 | 294 | < 5 | 2.2 | 0.65 | 2 | 50 | 0.5 | 6 | 1.07 | 1.0 | 2 | 93 | 648 | 2.38 | < 10 | 1 | 0.36 | < 10 | 0.09 | 910 |

CERTIFICATION: _____



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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Page Number :2-B
 Total Pages :4
 Certificate Date: 26-OCT-97
 Invoice No. :19747428
 P.O. Number :
 Account : PFM

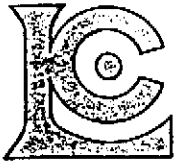
Project : MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|-----------|-----|-----|------|-----|-----|-----|-----|-----|------|--------|------|------|-----|------|------|
| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706041 | 205 | 294 | 4 | 0.04 | 3 | 440 | 24 | < 2 | 1 | 101 | 0.01 | < 10 | < 10 | 18 | < 10 | 90 |
| M706042 | 205 | 294 | 21 | 0.04 | 3 | 440 | 24 | < 2 | 1 | 157 | 0.01 | < 10 | < 10 | 17 | < 10 | 114 |
| M706043 | 205 | 294 | 3 | 0.03 | 3 | 490 | 44 | < 2 | 1 | 153 | < 0.01 | < 10 | < 10 | 15 | < 10 | 142 |
| M706044 | 205 | 294 | 58 | 0.04 | 4 | 420 | 14 | < 2 | 1 | 126 | 0.01 | < 10 | < 10 | 19 | < 10 | 166 |
| M706045 | 205 | 294 | 1 | 0.03 | 3 | 370 | 12 | < 2 | 1 | 102 | 0.01 | < 10 | < 10 | 16 | < 10 | 96 |
| M706046 | 205 | 294 | 71 | 0.04 | 3 | 420 | 14 | < 2 | 1 | 114 | < 0.01 | < 10 | < 10 | 13 | < 10 | 100 |
| M706047 | 205 | 294 | 1 | 0.04 | 3 | 420 | 16 | < 2 | 1 | 137 | < 0.01 | < 10 | < 10 | 12 | < 10 | 68 |
| M706048 | 205 | 294 | 68 | 0.04 | 3 | 440 | 12 | < 2 | 1 | 105 | < 0.01 | < 10 | < 10 | 11 | < 10 | 86 |
| M706049 | 205 | 294 | 11 | 0.03 | 3 | 400 | 10 | < 2 | 1 | 103 | < 0.01 | < 10 | < 10 | 9 | < 10 | 82 |
| M706050 | 205 | 294 | 19 | 0.04 | 3 | 410 | 8 | < 2 | 1 | 127 | < 0.01 | < 10 | < 10 | 13 | < 10 | 128 |
| M706051 | 205 | 294 | 2 | 0.03 | 3 | 390 | 4 | < 2 | 1 | 147 | < 0.01 | < 10 | < 10 | 13 | < 10 | 98 |
| M706052 | 205 | 294 | 96 | 0.03 | 2 | 400 | 8 | < 2 | 1 | 119 | < 0.01 | < 10 | < 10 | 12 | < 10 | 102 |
| M706053 | 205 | 294 | 104 | 0.02 | 3 | 370 | 24 | < 2 | 1 | 105 | < 0.01 | < 10 | < 10 | 10 | < 10 | 550 |
| M706054 | 205 | 294 | 56 | 0.01 | 3 | 340 | 44 | < 2 | 1 | 140 | < 0.01 | < 10 | < 10 | 5 | < 10 | 1020 |
| M706055 | 205 | 294 | 57 | 0.01 | 3 | 410 | 24 | < 2 | 1 | 161 | < 0.01 | < 10 | < 10 | 4 | < 10 | 242 |
| M706056 | 205 | 294 | 77 | 0.05 | 3 | 330 | 8 | < 2 | 1 | 154 | < 0.01 | < 10 | < 10 | 10 | < 10 | 72 |
| M706057 | 205 | 294 | 129 | 0.04 | 3 | 330 | 2 | < 2 | 1 | 132 | < 0.01 | < 10 | < 10 | 11 | < 10 | 74 |
| M706058 | 205 | 294 | 103 | 0.03 | 3 | 320 | 6 | < 2 | 1 | 108 | < 0.01 | < 10 | < 10 | 9 | < 10 | 162 |
| M706059 | 205 | 294 | 14 | 0.03 | 3 | 490 | 10 | < 2 | 1 | 115 | < 0.01 | < 10 | < 10 | 7 | < 10 | 164 |
| M706060 | 205 | 294 | 32 | 0.03 | 3 | 510 | 8 | < 2 | 1 | 119 | < 0.01 | < 10 | < 10 | 11 | < 10 | 140 |
| M706061 | 205 | 294 | 70 | 0.05 | 3 | 470 | 4 | < 2 | 1 | 167 | 0.01 | < 10 | < 10 | 20 | < 10 | 92 |
| M706062 | 205 | 294 | 457 | 0.05 | 3 | 480 | 4 | < 2 | 1 | 119 | 0.01 | < 10 | < 10 | 20 | < 10 | 72 |
| M706063 | 205 | 294 | 641 | 0.04 | 3 | 440 | < 2 | < 2 | 1 | 94 | 0.01 | < 10 | < 10 | 18 | < 10 | 72 |
| M706064 | 205 | 294 | 97 | 0.05 | 2 | 520 | 4 | < 2 | 1 | 120 | 0.01 | < 10 | < 10 | 20 | < 10 | 78 |
| M706065 | 205 | 294 | 69 | 0.05 | 3 | 500 | 16 | < 2 | 1 | 501 | < 0.01 | < 10 | < 10 | 13 | < 10 | 120 |
| M706066 | 205 | 294 | 29 | 0.32 | 2 | 450 | 20 | < 2 | 1 | 3280 | 0.01 | < 10 | < 10 | 14 | < 10 | 120 |
| M706067 | 205 | 294 | 1 | 0.65 | 3 | 260 | 6 | < 2 | 2 | 4150 | 0.04 | < 10 | < 10 | 24 | < 10 | 48 |
| M706068 | 205 | 294 | 11 | 0.07 | 2 | 310 | 28 | < 2 | 1 | 458 | < 0.01 | < 10 | < 10 | 14 | < 10 | 134 |
| M706069 | 205 | 294 | 45 | 0.06 | 5 | 430 | 4 | < 2 | 2 | 135 | 0.01 | < 10 | < 10 | 21 | < 10 | 94 |
| M706070 | 205 | 294 | 1 | 0.05 | 3 | 440 | 8 | < 2 | 1 | 93 | < 0.01 | < 10 | < 10 | 11 | < 10 | 140 |
| M706071 | 205 | 294 | 24 | 0.04 | 2 | 320 | 8 | < 2 | < 1 | 84 | < 0.01 | < 10 | < 10 | 12 | < 10 | 130 |
| M706072 | 205 | 294 | 14 | 0.04 | 3 | 430 | 4 | < 2 | 1 | 182 | < 0.01 | < 10 | < 10 | 16 | < 10 | 158 |
| M706073 | 205 | 294 | 83 | 0.04 | 4 | 390 | 6 | < 2 | 1 | 131 | 0.01 | < 10 | < 10 | 17 | < 10 | 94 |
| M706074 | 205 | 294 | 21 | 0.04 | 3 | 360 | 4 | < 2 | 1 | 95 | 0.01 | < 10 | < 10 | 15 | < 10 | 86 |
| M706075 | 205 | 294 | 41 | 0.04 | 1 | 510 | 4 | < 2 | 1 | 105 | 0.01 | < 10 | < 10 | 21 | < 10 | 122 |
| M706076 | 205 | 294 | < 1 | 0.05 | 3 | 410 | < 2 | < 2 | 2 | 77 | 0.04 | < 10 | < 10 | 27 | < 10 | 56 |
| M706077 | 205 | 294 | 3 | 0.05 | 3 | 450 | 2 | < 2 | 2 | 100 | 0.03 | < 10 | < 10 | 25 | < 10 | 76 |
| M706078 | 205 | 294 | < 1 | 0.04 | 3 | 470 | 4 | < 2 | 1 | 89 | 0.01 | < 10 | < 10 | 18 | < 10 | 90 |
| M706079 | 205 | 294 | 22 | 0.01 | 3 | 610 | 6 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 5 | < 10 | 258 |
| M706080 | 205 | 294 | 36 | 0.03 | 3 | 260 | 8 | < 2 | < 1 | 59 | < 0.01 | < 10 | < 10 | 5 | < 10 | 446 |

CERTIFICATION: Heath Bucher



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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Page Number :3-A
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 Invoice No. :19747428
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 Account :PFM

Project : MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

CERTIFICATE OF ANALYSIS A9747428

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| M706081 | 205 294 | < 5 | 0.4 | 0.64 | < 2 | 60 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 80 | 61 | 1.38 | < 10 | 1 | 0.31 | < 10 | 0.14 | 540 |
| M706082 | 205 294 | < 5 | 0.2 | 0.66 | < 2 | 60 | < 0.5 | < 2 | 0.68 | < 0.5 | 2 | 83 | 140 | 1.50 | < 10 | < 1 | 0.34 | < 10 | 0.10 | 280 |
| M706083 | 205 294 | < 5 | 0.2 | 0.81 | < 2 | 100 | < 0.5 | < 2 | 0.64 | < 0.5 | 3 | 83 | 90 | 1.78 | < 10 | < 1 | 0.37 | < 10 | 0.26 | 375 |
| M706084 | 205 294 | < 5 | < 0.2 | 0.82 | < 2 | 120 | < 0.5 | < 2 | 0.61 | < 0.5 | 3 | 72 | 121 | 1.58 | < 10 | < 1 | 0.38 | 10 | 0.31 | 400 |
| M706085 | 205 294 | < 5 | 0.4 | 0.58 | < 2 | 50 | < 0.5 | < 2 | 0.85 | 0.5 | 1 | 59 | 101 | 1.04 | < 10 | < 1 | 0.30 | < 10 | 0.13 | 505 |
| M706086 | 205 294 | < 5 | 5.4 | 0.78 | < 2 | 50 | 0.5 | 26 | 0.41 | 12.5 | 3 | 63 | 367 | 3.43 | < 10 | < 1 | 0.44 | < 10 | 0.12 | 1135 |
| M706087 | 205 294 | < 5 | 3.4 | 0.57 | < 2 | 50 | < 0.5 | 22 | 0.74 | 1.5 | 1 | 55 | 120 | 2.02 | < 10 | < 1 | 0.33 | 10 | 0.09 | 655 |
| M706088 | 205 294 | < 5 | 0.6 | 0.64 | < 2 | 150 | 0.5 | < 2 | 1.38 | < 0.5 | 1 | 89 | 54 | 1.11 | < 10 | < 1 | 0.37 | < 10 | 0.08 | 810 |
| M706089 | 205 294 | < 5 | 0.2 | 0.74 | < 2 | 60 | 0.5 | < 2 | 1.13 | < 0.5 | 2 | 102 | 49 | 1.40 | < 10 | < 1 | 0.33 | 10 | 0.15 | 540 |
| M706090 | 205 294 | < 5 | 0.2 | 0.82 | < 2 | 90 | < 0.5 | 2 | 0.60 | < 0.5 | 3 | 107 | 132 | 1.60 | < 10 | < 1 | 0.37 | 10 | 0.18 | 260 |
| M706091 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 80 | < 0.5 | 2 | 0.70 | < 0.5 | 3 | 86 | 96 | 1.49 | < 10 | 1 | 0.33 | 10 | 0.21 | 265 |
| M706092 | 205 294 | < 5 | < 0.2 | 0.85 | < 2 | 130 | < 0.5 | < 2 | 0.71 | < 0.5 | 2 | 95 | 47 | 1.39 | < 10 | 1 | 0.33 | 10 | 0.25 | 285 |
| M706093 | 205 294 | < 5 | < 0.2 | 0.76 | < 2 | 80 | < 0.5 | < 2 | 0.73 | < 0.5 | 2 | 100 | 71 | 1.55 | < 10 | < 1 | 0.29 | 10 | 0.21 | 275 |
| M706094 | 205 294 | < 5 | 0.6 | 0.83 | < 2 | 80 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 85 | 77 | 1.71 | < 10 | < 1 | 0.38 | 10 | 0.17 | 545 |
| M706095 | 205 294 | < 5 | 2.4 | 0.82 | < 2 | 140 | 0.5 | 10 | 0.57 | 0.5 | 3 | 72 | 440 | 2.21 | < 10 | < 1 | 0.43 | 10 | 0.13 | 420 |
| M706096 | 205 294 | < 5 | 0.6 | 0.93 | < 2 | 80 | 0.5 | < 2 | 0.98 | < 0.5 | 2 | 100 | 81 | 1.69 | < 10 | < 1 | 0.36 | 10 | 0.18 | 505 |
| M706097 | 205 294 | < 5 | 1.4 | 0.72 | < 2 | 60 | < 0.5 | 10 | 1.31 | 0.5 | 2 | 81 | 63 | 1.62 | < 10 | < 1 | 0.36 | 10 | 0.14 | 725 |
| M706098 | 205 294 | < 5 | 0.6 | 0.85 | < 2 | 80 | < 0.5 | < 2 | 0.71 | < 0.5 | 2 | 98 | 80 | 1.37 | < 10 | 1 | 0.36 | 10 | 0.22 | 390 |
| M706099 | 205 294 | < 5 | 0.6 | 0.51 | < 2 | 60 | < 0.5 | < 2 | 0.62 | < 0.5 | 1 | 83 | 154 | 0.93 | < 10 | < 1 | 0.24 | < 10 | 0.12 | 430 |
| M706100 | 205 294 | < 5 | 0.6 | 0.63 | < 2 | 60 | < 0.5 | 4 | 0.65 | < 0.5 | 1 | 88 | 230 | 1.08 | < 10 | < 1 | 0.33 | < 10 | 0.10 | 405 |
| M706101 | 205 294 | < 5 | 0.2 | 0.67 | < 2 | 60 | < 0.5 | < 2 | 0.61 | < 0.5 | 3 | 84 | 69 | 1.35 | < 10 | < 1 | 0.30 | 10 | 0.16 | 375 |
| M706102 | 205 294 | < 5 | 0.6 | 0.96 | < 2 | 120 | < 0.5 | < 2 | 0.48 | < 0.5 | 3 | 71 | 257 | 2.09 | < 10 | 1 | 0.46 | 10 | 0.27 | 335 |
| M706103 | 205 294 | < 5 | 0.2 | 1.06 | < 2 | 130 | 0.5 | < 2 | 0.83 | < 0.5 | 3 | 84 | 128 | 1.82 | < 10 | 1 | 0.39 | 10 | 0.30 | 410 |
| M706104 | 205 294 | < 5 | < 0.2 | 1.09 | < 2 | 250 | < 0.5 | < 2 | 0.79 | < 0.5 | 4 | 83 | 89 | 1.75 | < 10 | < 1 | 0.43 | 10 | 0.35 | 395 |
| M706105 | 205 294 | < 5 | 0.8 | 0.99 | < 2 | 210 | < 0.5 | 20 | 0.77 | < 0.5 | 3 | 79 | 211 | 2.27 | < 10 | < 1 | 0.42 | 10 | 0.29 | 415 |
| M706106 | 205 294 | < 5 | 1.4 | 0.91 | < 2 | 120 | 0.5 | 10 | 1.15 | 0.5 | 3 | 77 | 240 | 2.14 | < 10 | < 1 | 0.41 | 10 | 0.24 | 610 |
| M706107 | 205 294 | < 5 | 1.0 | 0.74 | < 2 | 80 | < 0.5 | < 2 | 0.95 | < 0.5 | 3 | 62 | 112 | 1.81 | < 10 | < 1 | 0.31 | 10 | 0.22 | 655 |
| M706108 | 205 294 | < 5 | 1.4 | 0.88 | < 2 | 80 | 0.5 | < 2 | 1.19 | 0.5 | 4 | 88 | 174 | 1.94 | < 10 | < 1 | 0.48 | 10 | 0.17 | 1330 |
| M706109 | 205 294 | < 5 | 1.4 | 0.81 | < 2 | 60 | 0.5 | < 2 | 0.91 | 3.0 | 3 | 80 | 46 | 2.96 | < 10 | 1 | 0.35 | 10 | 0.16 | 9560 |
| M706110 | 205 294 | < 5 | 2.0 | 0.82 | < 2 | 50 | 0.5 | 4 | 0.71 | 1.5 | 4 | 132 | 136 | 4.73 | < 10 | 2 | 0.37 | < 10 | 0.14 | >10000 |
| M706111 | 205 294 | < 5 | 0.6 | 0.63 | < 2 | 40 | 0.5 | < 2 | 1.49 | 1.5 | 2 | 96 | 35 | 2.51 | < 10 | 1 | 0.41 | < 10 | 0.08 | 4950 |
| M706112 | 205 294 | < 5 | 0.8 | 0.69 | 2 | 50 | 0.5 | 2 | 1.93 | 1.5 | 3 | 115 | 49 | 3.69 | < 10 | 1 | 0.41 | 10 | 0.13 | >10000 |
| M706113 | 205 294 | < 5 | 0.8 | 0.51 | < 2 | 40 | 0.5 | < 2 | 1.26 | < 0.5 | 3 | 86 | 49 | 2.97 | < 10 | < 1 | 0.32 | < 10 | 0.05 | 2290 |
| M706114 | 205 294 | < 5 | < 0.2 | 1.01 | < 2 | 110 | 0.5 | < 2 | 1.58 | < 0.5 | 4 | 104 | 27 | 2.05 | < 10 | < 1 | 0.40 | 10 | 0.23 | 1560 |
| M706115 | 205 294 | < 5 | < 0.2 | 0.57 | < 2 | 70 | 0.5 | < 2 | 1.82 | < 0.5 | 4 | 84 | 18 | 1.75 | < 10 | < 1 | 0.39 | 10 | 0.08 | 2240 |
| M706116 | 205 294 | < 5 | 0.2 | 0.70 | < 2 | 70 | < 0.5 | < 2 | 1.20 | 0.5 | 2 | 97 | 50 | 2.16 | < 10 | < 1 | 0.43 | 10 | 0.08 | 1465 |
| M706117 | 205 294 | < 5 | 0.6 | 0.73 | < 2 | 70 | 0.5 | < 2 | 1.25 | 0.5 | 3 | 111 | 18 | 2.59 | < 10 | < 1 | 0.42 | 10 | 0.09 | 2320 |
| M706118 | 205 294 | < 5 | 0.6 | 1.01 | < 2 | 100 | 0.5 | < 2 | 1.35 | 0.5 | 3 | 104 | 138 | 2.60 | < 10 | < 1 | 0.45 | 10 | 0.16 | 1420 |
| M706119 | 205 294 | < 5 | 0.8 | 1.01 | < 2 | 120 | 0.5 | 2 | 1.62 | 0.5 | 4 | 94 | 34 | 3.22 | < 10 | < 1 | 0.48 | 10 | 0.28 | 4800 |
| M706120 | 205 294 | < 5 | < 0.2 | 1.02 | < 2 | 200 | < 0.5 | < 2 | 0.91 | < 0.5 | 4 | 84 | 24 | 2.27 | < 10 | < 1 | 0.46 | 10 | 0.32 | 370 |

CERTIFICATION: *[Signature]*



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CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|------|-----|-----|--------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|------|
| | CODE | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706081 | 205 | 294 | 9 | 0.05 | 2 | 220 | 4 | < 2 | < 1 | 55 | < 0.01 | < 10 | < 10 | 8 | < 10 | 100 |
| M706082 | 205 | 294 | 7 | 0.04 | 2 | 180 | 8 | < 2 | < 1 | 48 | < 0.01 | < 10 | < 10 | 6 | < 10 | 134 |
| M706083 | 205 | 294 | 4 | 0.04 | 3 | 440 | 4 | < 2 | 1 | 53 | 0.02 | < 10 | < 10 | 20 | < 10 | 88 |
| M706084 | 205 | 294 | < 1 | 0.05 | 3 | 320 | 10 | < 2 | 2 | 54 | 0.03 | < 10 | < 10 | 20 | < 10 | 90 |
| M706085 | 205 | 294 | 7 | 0.04 | 1 | 180 | 4 | < 2 | < 1 | 68 | < 0.01 | < 10 | < 10 | 7 | < 10 | 286 |
| M706086 | 205 | 294 | 12 | < 0.01 | 3 | 230 | 42 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 3 | < 10 | 6310 |
| M706087 | 205 | 294 | 15 | 0.01 | 3 | 240 | 42 | < 2 | < 1 | 66 | < 0.01 | < 10 | < 10 | 4 | < 10 | 952 |
| M706088 | 205 | 294 | 3 | 0.03 | 2 | 230 | 6 | < 2 | < 1 | 87 | < 0.01 | < 10 | < 10 | 3 | < 10 | 118 |
| M706089 | 205 | 294 | 1 | 0.03 | 3 | 260 | 6 | < 2 | 1 | 93 | < 0.01 | < 10 | < 10 | 7 | < 10 | 92 |
| M706090 | 205 | 294 | 21 | 0.05 | 2 | 270 | < 2 | < 2 | 1 | 52 | 0.01 | < 10 | < 10 | 11 | < 10 | 76 |
| M706091 | 205 | 294 | 17 | 0.05 | 2 | 270 | 2 | < 2 | 1 | 47 | 0.01 | < 10 | < 10 | 12 | < 10 | 70 |
| M706092 | 205 | 294 | 55 | 0.06 | 2 | 250 | 4 | < 2 | 1 | 67 | 0.01 | < 10 | < 10 | 14 | < 10 | 48 |
| M706093 | 205 | 294 | 2 | 0.04 | 2 | 250 | < 2 | < 2 | 1 | 71 | < 0.01 | < 10 | < 10 | 11 | < 10 | 50 |
| M706094 | 205 | 294 | 16 | 0.03 | 2 | 270 | 6 | < 2 | 1 | 67 | < 0.01 | < 10 | < 10 | 9 | < 10 | 174 |
| M706095 | 205 | 294 | 22 | 0.01 | 1 | 300 | 12 | < 2 | < 1 | 49 | < 0.01 | < 10 | < 10 | 6 | < 10 | 392 |
| M706096 | 205 | 294 | 7 | 0.04 | 3 | 250 | 6 | < 2 | 1 | 89 | < 0.01 | < 10 | < 10 | 10 | < 10 | 92 |
| M706097 | 205 | 294 | 12 | 0.03 | 1 | 260 | 14 | < 2 | < 1 | 79 | < 0.01 | < 10 | < 10 | 7 | < 10 | 514 |
| M706098 | 205 | 294 | < 1 | 0.05 | 2 | 220 | 2 | < 2 | 1 | 59 | 0.01 | < 10 | < 10 | 13 | < 10 | 74 |
| M706099 | 205 | 294 | 46 | 0.04 | 1 | 160 | 2 | < 2 | < 1 | 49 | < 0.01 | < 10 | < 10 | 7 | < 10 | 108 |
| M706100 | 205 | 294 | 16 | 0.05 | 2 | 150 | 6 | < 2 | < 1 | 43 | < 0.01 | < 10 | < 10 | 6 | < 10 | 118 |
| M706101 | 205 | 294 | 52 | 0.04 | 1 | 220 | 2 | < 2 | < 1 | 56 | < 0.01 | < 10 | < 10 | 9 | < 10 | 84 |
| M706102 | 205 | 294 | 3 | 0.04 | 3 | 320 | < 2 | < 2 | 1 | 40 | 0.03 | < 10 | < 10 | 15 | < 10 | 96 |
| M706103 | 205 | 294 | 8 | 0.05 | 2 | 330 | < 2 | < 2 | 1 | 94 | 0.01 | < 10 | < 10 | 17 | < 10 | 74 |
| M706104 | 205 | 294 | 8 | 0.06 | 3 | 340 | < 2 | < 2 | 2 | 86 | 0.03 | < 10 | < 10 | 21 | < 10 | 74 |
| M706105 | 205 | 294 | 25 | 0.04 | 3 | 350 | 4 | < 2 | 1 | 93 | 0.02 | < 10 | < 10 | 17 | < 10 | 206 |
| M706106 | 205 | 294 | 34 | 0.04 | 3 | 340 | 8 | < 2 | 1 | 84 | < 0.01 | < 10 | < 10 | 12 | < 10 | 372 |
| M706107 | 205 | 294 | 89 | 0.03 | 2 | 330 | 6 | < 2 | < 1 | 74 | < 0.01 | < 10 | < 10 | 10 | < 10 | 96 |
| M706108 | 205 | 294 | 89 | 0.01 | 3 | 340 | 10 | < 2 | < 1 | 80 | < 0.01 | < 10 | < 10 | 5 | < 10 | 276 |
| M706109 | 205 | 294 | 9 | 0.01 | 3 | 300 | 14 | < 2 | < 1 | 82 | < 0.01 | < 10 | < 10 | 5 | < 10 | 1170 |
| M706110 | 205 | 294 | 7 | < 0.01 | 4 | 260 | 10 | < 2 | < 1 | 44 | < 0.01 | < 10 | < 10 | 5 | < 10 | 242 |
| M706111 | 205 | 294 | 19 | < 0.01 | 2 | 270 | 16 | < 2 | < 1 | 59 | < 0.01 | < 10 | < 10 | 3 | < 10 | 788 |
| M706112 | 205 | 294 | 24 | 0.01 | 3 | 360 | 22 | < 2 | < 1 | 81 | < 0.01 | < 10 | < 10 | 4 | < 10 | 260 |
| M706113 | 205 | 294 | 34 | 0.01 | 3 | 290 | 8 | < 2 | < 1 | 63 | < 0.01 | < 10 | < 10 | 3 | < 10 | 150 |
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| M706115 | 205 | 294 | 8 | 0.01 | 2 | 350 | 2 | < 2 | < 1 | 82 | < 0.01 | < 10 | < 10 | 4 | < 10 | 116 |
| M706116 | 205 | 294 | 14 | 0.01 | 3 | 350 | 6 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 4 | < 10 | 310 |
| M706117 | 205 | 294 | 3 | 0.01 | 4 | 380 | 18 | < 2 | < 1 | 70 | < 0.01 | < 10 | < 10 | 3 | < 10 | 176 |
| M706118 | 205 | 294 | 2 | 0.01 | 3 | 420 | 6 | < 2 | 1 | 110 | < 0.01 | < 10 | < 10 | 9 | < 10 | 174 |
| M706119 | 205 | 294 | 1 | 0.03 | 4 | 390 | 8 | < 2 | 1 | 90 | 0.01 | < 10 | < 10 | 13 | < 10 | 260 |
| M706120 | 205 | 294 | < 1 | 0.05 | 3 | 400 | < 2 | < 2 | 1 | 77 | 0.02 | < 10 | < 10 | 18 | < 10 | 62 |

CERTIFICATION:

Leo King



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
V7Y 1B6

Project: MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :4-A
Total Pages :4
Certificate Date: 26-OCT-97
Invoice No. :19747428
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS A9747428

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | 205 | 294 | FA+AA | | | | | | | | | | | | | | | | | | |
| M706121 | 205 | 294 | < 5 | 0.4 | 0.97 | < 2 | 130 | < 0.5 | < 2 | 1.09 | < 0.5 | 3 | 87 | 91 | 2.03 | < 10 | < 1 | 0.39 | 10 | 0.31 | 470 |
| M706122 | 205 | 294 | < 5 | < 0.2 | 0.93 | 2 | 160 | < 0.5 | < 2 | 0.85 | < 0.5 | 4 | 77 | 25 | 2.56 | < 10 | 1 | 0.40 | 10 | 0.29 | 310 |
| M706123 | 205 | 294 | < 5 | 0.2 | 0.82 | < 2 | 190 | < 0.5 | < 2 | 0.83 | < 0.5 | 3 | 78 | 119 | 2.01 | < 10 | 1 | 0.40 | 10 | 0.28 | 545 |
| M706124 | 205 | 294 | < 5 | 0.6 | 1.09 | < 2 | 130 | 0.5 | < 2 | 1.57 | 0.5 | 3 | 97 | 23 | 1.50 | < 10 | < 1 | 0.45 | 10 | 0.30 | 1140 |
| M706125 | 205 | 294 | < 5 | 0.2 | 0.84 | < 2 | 190 | < 0.5 | 2 | 1.15 | 0.5 | 3 | 87 | 9 | 1.85 | < 10 | < 1 | 0.43 | 10 | 0.26 | 600 |
| M706126 | 205 | 294 | < 5 | 0.2 | 0.65 | 2 | 90 | < 0.5 | 2 | 0.86 | 0.5 | 3 | 59 | 12 | 2.46 | < 10 | 1 | 0.35 | 10 | 0.22 | 575 |
| M706127 | 205 | 294 | < 5 | 0.6 | 0.58 | < 2 | 130 | < 0.5 | < 2 | 1.13 | 2.0 | 3 | 81 | 12 | 2.17 | < 10 | 1 | 0.34 | 10 | 0.17 | 1340 |
| M706128 | 205 | 294 | < 5 | 0.6 | 0.52 | < 2 | 60 | < 0.5 | 2 | 1.39 | 3.0 | 3 | 73 | 31 | 2.00 | < 10 | < 1 | 0.34 | 10 | 0.10 | 3090 |
| M706129 | 205 | 294 | < 5 | 1.2 | 0.47 | < 2 | 70 | < 0.5 | 2 | 1.13 | 0.5 | 3 | 80 | 39 | 1.89 | < 10 | < 1 | 0.34 | 10 | 0.08 | 3250 |
| M706130 | 205 | 294 | < 5 | 0.2 | 0.76 | 2 | 110 | < 0.5 | < 2 | 1.11 | < 0.5 | 3 | 92 | 25 | 1.96 | < 10 | < 1 | 0.36 | 10 | 0.19 | 1275 |
| M706131 | 205 | 294 | < 5 | 0.8 | 0.56 | < 2 | 70 | < 0.5 | 2 | 1.67 | 0.5 | 3 | 98 | 9 | 2.16 | < 10 | < 1 | 0.35 | 10 | 0.13 | 3570 |
| M706132 | 205 | 294 | < 5 | < 0.2 | 0.73 | 2 | 90 | 0.5 | < 2 | 2.17 | 0.5 | 2 | 95 | 13 | 1.23 | < 10 | < 1 | 0.43 | 10 | 0.18 | 3740 |
| M706133 | 205 | 294 | < 5 | 0.4 | 0.56 | < 2 | 70 | 0.5 | < 2 | 3.66 | 0.5 | 2 | 97 | 12 | 1.82 | < 10 | < 1 | 0.43 | 10 | 0.42 | 6050 |
| M706134 | 205 | 294 | < 5 | 0.8 | 0.55 | 2 | 60 | < 0.5 | 2 | 2.15 | 0.5 | 4 | 86 | 82 | 3.17 | < 10 | 1 | 0.42 | 10 | 0.32 | 6410 |
| M706135 | 205 | 294 | < 5 | 1.2 | 0.46 | < 2 | 50 | 0.5 | < 2 | 4.82 | 1.5 | 4 | 67 | 40 | 4.05 | < 10 | 1 | 0.41 | 10 | 0.24 | >10000 |
| M706136 | 205 | 294 | < 5 | 1.8 | 0.41 | 4 | 40 | < 0.5 | 2 | 4.59 | 1.5 | 3 | 94 | 51 | 4.70 | < 10 | < 1 | 0.33 | < 10 | 0.32 | >10000 |
| M706137 | 205 | 294 | < 5 | 0.6 | 0.59 | < 2 | 90 | 0.5 | 2 | 1.79 | < 0.5 | 1 | 93 | 20 | 2.61 | < 10 | 1 | 0.31 | < 10 | 0.13 | 4180 |
| M706138 | 205 | 294 | < 5 | 0.2 | 0.42 | < 2 | 60 | < 0.5 | 2 | 0.51 | < 0.5 | 1 | 78 | 6 | 3.57 | < 10 | 1 | 0.30 | < 10 | 0.02 | 1635 |
| M706139 | 205 | 294 | < 5 | < 0.2 | 0.37 | 2 | 60 | < 0.5 | < 2 | 0.57 | < 0.5 | 1 | 87 | 4 | 2.43 | < 10 | 1 | 0.21 | < 10 | 0.03 | 430 |
| M706140 | 205 | 294 | < 5 | 0.2 | 0.65 | < 2 | 80 | 0.5 | < 2 | 0.98 | < 0.5 | 1 | 98 | 8 | 3.86 | < 10 | < 1 | 0.25 | < 10 | 0.10 | 1980 |
| M706141 | 205 | 294 | < 5 | < 0.2 | 0.33 | < 2 | 40 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 72 | 3 | 3.45 | < 10 | < 1 | 0.22 | < 10 | 0.01 | 325 |
| M706142 | 205 | 294 | < 5 | < 0.2 | 0.36 | 2 | 50 | < 0.5 | < 2 | 0.74 | < 0.5 | 1 | 83 | 2 | 2.76 | < 10 | < 1 | 0.23 | < 10 | 0.01 | 350 |
| M706143 | 205 | 294 | < 5 | < 0.2 | 0.38 | < 2 | 50 | < 0.5 | < 2 | 1.12 | < 0.5 | 1 | 98 | 7 | 1.93 | < 10 | < 1 | 0.21 | < 10 | 0.02 | 450 |
| M706144 | 205 | 294 | < 5 | 0.2 | 0.41 | < 2 | 50 | < 0.5 | < 2 | 0.36 | < 0.5 | 1 | 78 | 4 | 3.12 | < 10 | 1 | 0.26 | < 10 | 0.01 | 185 |
| M706145 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 50 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 105 | 4 | 2.86 | < 10 | 1 | 0.26 | < 10 | 0.01 | 195 |
| M706146 | 205 | 294 | < 5 | 0.8 | 1.00 | < 2 | 140 | < 0.5 | < 2 | 0.19 | 1.0 | 4 | 103 | 209 | 2.41 | < 10 | 1 | 0.38 | 10 | 0.18 | 260 |
| M706147 | 205 | 294 | < 5 | 0.8 | 0.80 | 2 | 60 | 0.5 | 2 | 0.30 | 0.5 | 4 | 83 | 135 | 3.18 | < 10 | < 1 | 0.33 | 10 | 0.10 | 675 |
| M706148 | 205 | 294 | < 5 | 1.2 | 0.77 | < 2 | 70 | < 0.5 | < 2 | 0.22 | 0.5 | 4 | 99 | 104 | 3.06 | < 10 | 1 | 0.33 | 10 | 0.12 | 550 |
| M706149 | 205 | 294 | < 5 | 0.8 | 0.50 | 2 | 50 | < 0.5 | 2 | 0.58 | < 0.5 | 3 | 90 | 162 | 2.77 | < 10 | < 1 | 0.25 | 10 | 0.05 | 345 |
| M706150 | 205 | 294 | < 5 | 1.0 | 0.58 | 2 | 50 | < 0.5 | 8 | 1.32 | < 0.5 | 2 | 74 | 158 | 2.21 | < 10 | < 1 | 0.29 | 10 | 0.08 | 435 |
| M706151 | 205 | 294 | < 5 | 0.2 | 0.66 | < 2 | 80 | < 0.5 | < 2 | 0.71 | < 0.5 | 3 | 82 | 112 | 2.94 | < 10 | < 1 | 0.33 | 10 | 0.13 | 250 |
| M706152 | 205 | 294 | < 5 | < 0.2 | 0.93 | < 2 | 80 | < 0.5 | < 2 | 0.85 | < 0.5 | 4 | 94 | 46 | 2.76 | < 10 | 1 | 0.43 | 10 | 0.20 | 240 |
| M706153 | 205 | 294 | < 5 | 0.2 | 0.64 | < 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 3 | 71 | 114 | 2.82 | < 10 | < 1 | 0.31 | 10 | 0.10 | 155 |
| M706154 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 80 | < 0.5 | < 2 | 0.55 | < 0.5 | 2 | 94 | 41 | 2.98 | < 10 | < 1 | 0.33 | 10 | 0.11 | 115 |
| M706155 | 205 | 294 | < 5 | 0.2 | 0.55 | < 2 | 70 | < 0.5 | < 2 | 0.57 | < 0.5 | 4 | 86 | 99 | 3.20 | < 10 | < 1 | 0.28 | 10 | 0.09 | 160 |
| M706156 | 205 | 294 | < 5 | 0.2 | 0.60 | < 2 | 70 | < 0.5 | < 2 | 0.44 | < 0.5 | 4 | 70 | 90 | 2.77 | < 10 | < 1 | 0.26 | 10 | 0.13 | 165 |
| M706157 | 205 | 294 | < 5 | 0.6 | 0.58 | < 2 | 40 | < 0.5 | < 2 | 2.04 | 0.5 | 4 | 97 | 168 | 2.01 | < 10 | < 1 | 0.27 | 10 | 0.14 | 815 |
| M706158 | 205 | 294 | < 5 | 0.2 | 0.81 | < 2 | 80 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 88 | 207 | 2.40 | < 10 | < 1 | 0.34 | 10 | 0.20 | 225 |
| M706159 | 205 | 294 | < 5 | 0.6 | 0.77 | < 2 | 50 | < 0.5 | 16 | 0.68 | < 0.5 | 4 | 92 | 172 | 2.33 | < 10 | < 1 | 0.35 | 10 | 0.14 | 285 |
| M706160 | 205 | 294 | < 5 | < 0.2 | 0.94 | < 2 | 120 | < 0.5 | < 2 | 0.84 | < 0.5 | 4 | 90 | 39 | 2.24 | < 10 | < 1 | 0.37 | 10 | 0.28 | 265 |

97-2

97-2

CERTIFICATION:



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Analytical Chemists * Geochemists * Registered Assayers

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Project : MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :4-B
Total Pages :4
Certificate Date:26-OCT-97
Invoice No. :19747428
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706121 | 205 294 | 1 | 0.04 | 4 | 410 | 6 | < 2 | 1 | 96 | 0.02 | < 10 | < 10 | 17 | < 10 | 144 |
| M706122 | 205 294 | < 1 | 0.03 | 4 | 400 | 4 | < 2 | 1 | 67 | 0.02 | < 10 | < 10 | 17 | < 10 | 54 |
| M706123 | 205 294 | 3 | 0.03 | 4 | 390 | 12 | < 2 | 1 | 59 | 0.02 | < 10 | < 10 | 17 | < 10 | 138 |
| M706124 | 205 294 | 3 | 0.04 | 3 | 400 | 30 | < 2 | 1 | 121 | 0.01 | < 10 | < 10 | 17 | < 10 | 332 |
| M706125 | 205 294 | < 1 | 0.03 | 3 | 380 | 52 | < 2 | 1 | 66 | 0.01 | < 10 | < 10 | 15 | < 10 | 264 |
| M706126 | 205 294 | 4 | 0.03 | 3 | 340 | 66 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 12 | < 10 | 334 |
| M706127 | 205 294 | 10 | 0.01 | 3 | 390 | 78 | < 2 | 1 | 70 | < 0.01 | < 10 | < 10 | 9 | < 10 | 908 |
| M706128 | 205 294 | 2 | 0.01 | 2 | 380 | 12 | < 2 | < 1 | 75 | < 0.01 | < 10 | < 10 | 5 | < 10 | 1355 |
| M706129 | 205 294 | 5 | 0.01 | 2 | 360 | 38 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 4 | < 10 | 182 |
| M706130 | 205 294 | 1 | 0.03 | 3 | 410 | 6 | < 2 | 1 | 79 | < 0.01 | < 10 | < 10 | 10 | < 10 | 92 |
| M706131 | 205 294 | < 1 | 0.01 | 3 | 380 | 28 | < 2 | < 1 | 76 | < 0.01 | < 10 | < 10 | 5 | < 10 | 152 |
| M706132 | 205 294 | < 1 | 0.01 | 3 | 400 | 10 | < 2 | 1 | 98 | < 0.01 | < 10 | < 10 | 7 | < 10 | 186 |
| M706133 | 205 294 | 5 | < 0.01 | 2 | 380 | 16 | < 2 | < 1 | 116 | < 0.01 | < 10 | < 10 | 5 | < 10 | 152 |
| M706134 | 205 294 | 1 | < 0.01 | 3 | 350 | 8 | < 2 | < 1 | 67 | < 0.01 | < 10 | < 10 | 4 | < 10 | 70 |
| M706135 | 205 294 | 22 | < 0.01 | 3 | 320 | 12 | < 2 | < 1 | 133 | < 0.01 | < 10 | < 10 | 4 | 10 | 68 |
| M706136 | 205 294 | 4 | < 0.01 | 3 | 160 | 18 | < 2 | < 1 | 150 | < 0.01 | < 10 | < 10 | 3 | < 10 | 68 |
| M706137 | 205 294 | 3 | 0.02 | 2 | 200 | 8 | < 2 | < 1 | 120 | < 0.01 | < 10 | < 10 | 3 | < 10 | 62 |
| M706138 | 205 294 | 2 | < 0.01 | 1 | 150 | < 2 | < 2 | < 1 | 24 | < 0.01 | < 10 | 10 | 1 | < 10 | 42 |
| M706139 | 205 294 | 4 | 0.01 | 1 | 150 | 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 2 | < 10 | 16 |
| M706140 | 205 294 | 4 | 0.02 | 1 | 230 | < 2 | < 2 | < 1 | 109 | < 0.01 | < 10 | 10 | 4 | < 10 | 58 |
| M706141 | 205 294 | 6 | < 0.01 | 1 | 170 | 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 1 | < 10 | 18 |
| M706142 | 205 294 | 8 | 0.01 | 1 | 140 | < 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 1 | < 10 | 18 |
| M706143 | 205 294 | 10 | 0.01 | 1 | 90 | < 2 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 1 | < 10 | 30 |
| M706144 | 205 294 | 21 | 0.01 | 1 | 100 | 6 | < 2 | < 1 | 21 | < 0.01 | < 10 | < 10 | 1 | < 10 | 78 |
| M706145 | 205 294 | 4 | 0.01 | 1 | 100 | < 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 1 | < 10 | 26 |
| M706146 | 205 294 | 46 | 0.01 | 3 | 440 | 16 | < 2 | 1 | 24 | < 0.01 | < 10 | < 10 | 13 | < 10 | 540 |
| M706147 | 205 294 | 1 | 0.02 | 3 | 400 | 20 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 8 | < 10 | 374 |
| M706148 | 205 294 | 28 | 0.01 | 3 | 350 | 16 | < 2 | < 1 | 38 | < 0.01 | < 10 | < 10 | 8 | < 10 | 474 |
| M706149 | 205 294 | 114 | 0.01 | 3 | 270 | 8 | < 2 | < 1 | 36 | < 0.01 | < 10 | < 10 | 4 | < 10 | 102 |
| M706150 | 205 294 | 122 | 0.02 | 3 | 280 | 10 | < 2 | < 1 | 60 | < 0.01 | < 10 | < 10 | 5 | < 10 | 104 |
| M706151 | 205 294 | 41 | 0.02 | 4 | 310 | 6 | < 2 | < 1 | 54 | < 0.01 | < 10 | < 10 | 8 | < 10 | 78 |
| M706152 | 205 294 | 113 | 0.03 | 3 | 300 | 2 | < 2 | 1 | 60 | 0.01 | < 10 | < 10 | 12 | < 10 | 42 |
| M706153 | 205 294 | 116 | 0.01 | 3 | 260 | 4 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 6 | < 10 | 48 |
| M706154 | 205 294 | 21 | 0.02 | 3 | 270 | < 2 | < 2 | < 1 | 32 | < 0.01 | < 10 | < 10 | 7 | < 10 | 30 |
| M706155 | 205 294 | 143 | 0.01 | 3 | 310 | 2 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 6 | < 10 | 32 |
| M706156 | 205 294 | 68 | 0.01 | 3 | 310 | 6 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 8 | < 10 | 58 |
| M706157 | 205 294 | 61 | 0.01 | 3 | 290 | 6 | < 2 | < 1 | 86 | < 0.01 | < 10 | < 10 | 5 | < 10 | 264 |
| M706158 | 205 294 | 47 | 0.02 | 4 | 340 | 2 | < 2 | < 1 | 50 | 0.01 | < 10 | < 10 | 11 | < 10 | 74 |
| M706159 | 205 294 | 51 | 0.02 | 3 | 340 | 16 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 8 | < 10 | 92 |
| M706160 | 205 294 | 54 | 0.03 | 3 | 360 | 4 | < 2 | 1 | 53 | 0.01 | < 10 | < 10 | 15 | < 10 | 46 |

97 -2

97 -2

CERTIFICATION:



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CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706121 | 205 | 294 | < 5 | 0.4 | 0.97 | < 2 | 130 | < 0.5 | < 2 | 1.09 | < 0.5 | 3 | 87 | 91 | 2.03 | < 10 | < 1 | 0.39 | 10 | 0.31 | 470 |
| M706122 | 205 | 294 | < 5 | < 0.2 | 0.93 | 2 | 160 | < 0.5 | < 2 | 0.85 | < 0.5 | 4 | 77 | 25 | 2.56 | < 10 | 1 | 0.40 | 10 | 0.29 | 310 |
| M706123 | 205 | 294 | < 5 | 0.2 | 0.82 | < 2 | 190 | < 0.5 | < 2 | 0.83 | < 0.5 | 3 | 78 | 119 | 2.01 | < 10 | 1 | 0.40 | 10 | 0.28 | 545 |
| M706124 | 205 | 294 | < 5 | 0.6 | 1.09 | < 2 | 130 | 0.5 | < 2 | 1.57 | 0.5 | 3 | 97 | 23 | 1.50 | < 10 | < 1 | 0.45 | 10 | 0.30 | 1140 |
| M706125 | 205 | 294 | < 5 | 0.2 | 0.84 | < 2 | 190 | < 0.5 | 2 | 1.15 | 0.5 | 3 | 87 | 9 | 1.85 | < 10 | < 1 | 0.43 | 10 | 0.26 | 600 |
| M706126 | 205 | 294 | < 5 | 0.2 | 0.65 | 2 | 90 | < 0.5 | 2 | 0.86 | 0.5 | 3 | 59 | 12 | 2.46 | < 10 | 1 | 0.35 | 10 | 0.22 | 575 |
| M706127 | 205 | 294 | < 5 | 0.6 | 0.58 | < 2 | 130 | < 0.5 | < 2 | 1.13 | 2.0 | 3 | 81 | 12 | 2.17 | < 10 | 1 | 0.34 | 10 | 0.17 | 1340 |
| M706128 | 205 | 294 | < 5 | 0.6 | 0.52 | < 2 | 60 | < 0.5 | 2 | 1.39 | 3.0 | 3 | 73 | 31 | 2.00 | < 10 | < 1 | 0.34 | 10 | 0.10 | 3090 |
| M706129 | 205 | 294 | < 5 | 1.2 | 0.47 | < 2 | 70 | < 0.5 | 2 | 1.13 | 0.5 | 3 | 80 | 39 | 1.89 | < 10 | < 1 | 0.34 | 10 | 0.08 | 3250 |
| M706130 | 205 | 294 | < 5 | 0.2 | 0.76 | 2 | 110 | < 0.5 | < 2 | 1.11 | < 0.5 | 3 | 92 | 25 | 1.96 | < 10 | < 1 | 0.36 | 10 | 0.19 | 1275 |
| M706131 | 205 | 294 | < 5 | 0.8 | 0.56 | < 2 | 70 | < 0.5 | 2 | 1.67 | 0.5 | 3 | 98 | 9 | 2.16 | < 10 | < 1 | 0.35 | 10 | 0.13 | 3570 |
| M706132 | 205 | 294 | < 5 | < 0.2 | 0.73 | 2 | 90 | 0.5 | < 2 | 2.17 | 0.5 | 2 | 95 | 13 | 1.23 | < 10 | < 1 | 0.43 | 10 | 0.18 | 3740 |
| M706133 | 205 | 294 | < 5 | 0.4 | 0.56 | < 2 | 70 | 0.5 | < 2 | 3.66 | 0.5 | 2 | 97 | 12 | 1.82 | < 10 | < 1 | 0.43 | 10 | 0.42 | 6050 |
| M706134 | 205 | 294 | < 5 | 0.8 | 0.55 | 2 | 60 | < 0.5 | 2 | 2.15 | 0.5 | 4 | 86 | 82 | 3.17 | < 10 | 1 | 0.42 | 10 | 0.32 | 6410 |
| M706135 | 205 | 294 | < 5 | 1.2 | 0.46 | < 2 | 50 | 0.5 | < 2 | 4.82 | 1.5 | 4 | 67 | 40 | 4.05 | < 10 | 1 | 0.41 | 10 | 0.24 | >10000 |
| M706136 | 205 | 294 | < 5 | 1.8 | 0.41 | 4 | 40 | < 0.5 | 2 | 4.59 | 1.5 | 3 | 94 | 51 | 4.70 | < 10 | < 1 | 0.33 | < 10 | 0.32 | >10000 |
| M706137 | 205 | 294 | < 5 | 0.6 | 0.59 | < 2 | 90 | 0.5 | 2 | 1.79 | < 0.5 | 1 | 93 | 20 | 2.61 | < 10 | 1 | 0.31 | < 10 | 0.13 | 4180 |
| M706138 | 205 | 294 | < 5 | 0.2 | 0.42 | < 2 | 60 | < 0.5 | 2 | 0.51 | < 0.5 | 1 | 78 | 6 | 3.57 | < 10 | 1 | 0.30 | < 10 | 0.02 | 1635 |
| M706139 | 205 | 294 | < 5 | < 0.2 | 0.37 | 2 | 60 | < 0.5 | < 2 | 0.57 | < 0.5 | 1 | 87 | 4 | 2.43 | < 10 | 1 | 0.21 | < 10 | 0.03 | 430 |
| M706140 | 205 | 294 | < 5 | 0.2 | 0.65 | < 2 | 80 | 0.5 | < 2 | 0.98 | < 0.5 | 1 | 98 | 8 | 3.86 | < 10 | < 1 | 0.25 | < 10 | 0.10 | 1980 |
| M706141 | 205 | 294 | < 5 | < 0.2 | 0.33 | < 2 | 40 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 72 | 3 | 3.45 | < 10 | < 1 | 0.22 | < 10 | 0.01 | 325 |
| M706142 | 205 | 294 | < 5 | < 0.2 | 0.36 | 2 | 50 | < 0.5 | < 2 | 0.74 | < 0.5 | 1 | 83 | 2 | 2.76 | < 10 | < 1 | 0.23 | < 10 | 0.01 | 350 |
| M706143 | 205 | 294 | < 5 | < 0.2 | 0.38 | < 2 | 50 | < 0.5 | < 2 | 1.12 | < 0.5 | 1 | 98 | 7 | 1.93 | < 10 | < 1 | 0.21 | < 10 | 0.02 | 450 |
| M706144 | 205 | 294 | < 5 | 0.2 | 0.41 | < 2 | 50 | < 0.5 | < 2 | 0.36 | < 0.5 | 1 | 78 | 4 | 3.12 | < 10 | 1 | 0.26 | < 10 | 0.01 | 185 |
| M706145 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 50 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 105 | 4 | 2.86 | < 10 | 1 | 0.26 | < 10 | 0.01 | 195 |
| M706146 | 205 | 294 | < 5 | 0.8 | 1.00 | < 2 | 140 | < 0.5 | < 2 | 0.19 | 1.0 | 4 | 103 | 209 | 2.41 | < 10 | 1 | 0.38 | 10 | 0.18 | 260 |
| M706147 | 205 | 294 | < 5 | 0.8 | 0.80 | 2 | 60 | 0.5 | 2 | 0.30 | 0.5 | 4 | 83 | 135 | 3.18 | < 10 | < 1 | 0.33 | 10 | 0.10 | 675 |
| M706148 | 205 | 294 | < 5 | 1.2 | 0.77 | < 2 | 70 | < 0.5 | < 2 | 0.22 | 0.5 | 4 | 99 | 104 | 3.06 | < 10 | 1 | 0.33 | 10 | 0.12 | 550 |
| M706149 | 205 | 294 | < 5 | 0.8 | 0.50 | 2 | 50 | < 0.5 | 2 | 0.58 | < 0.5 | 3 | 90 | 162 | 2.77 | < 10 | < 1 | 0.25 | 10 | 0.05 | 345 |
| M706150 | 205 | 294 | < 5 | 1.0 | 0.58 | 2 | 50 | < 0.5 | 8 | 1.32 | < 0.5 | 2 | 74 | 158 | 2.21 | < 10 | < 1 | 0.29 | 10 | 0.08 | 435 |
| M706151 | 205 | 294 | < 5 | 0.2 | 0.66 | < 2 | 80 | < 0.5 | < 2 | 0.71 | < 0.5 | 3 | 82 | 112 | 2.94 | < 10 | < 1 | 0.33 | 10 | 0.13 | 250 |
| M706152 | 205 | 294 | < 5 | < 0.2 | 0.93 | < 2 | 80 | < 0.5 | < 2 | 0.85 | < 0.5 | 4 | 94 | 46 | 2.76 | < 10 | 1 | 0.43 | 10 | 0.20 | 240 |
| M706153 | 205 | 294 | < 5 | 0.2 | 0.64 | < 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 3 | 71 | 114 | 2.82 | < 10 | < 1 | 0.31 | 10 | 0.10 | 155 |
| M706154 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 80 | < 0.5 | < 2 | 0.55 | < 0.5 | 2 | 94 | 41 | 2.98 | < 10 | < 1 | 0.33 | 10 | 0.11 | 115 |
| M706155 | 205 | 294 | < 5 | 0.2 | 0.55 | < 2 | 70 | < 0.5 | < 2 | 0.57 | < 0.5 | 4 | 86 | 99 | 3.20 | < 10 | < 1 | 0.28 | 10 | 0.09 | 160 |
| M706156 | 205 | 294 | < 5 | 0.2 | 0.60 | < 2 | 70 | < 0.5 | < 2 | 0.44 | < 0.5 | 4 | 70 | 90 | 2.77 | < 10 | < 1 | 0.26 | 10 | 0.13 | 165 |
| M706157 | 205 | 294 | < 5 | 0.6 | 0.58 | < 2 | 40 | < 0.5 | < 2 | 2.04 | 0.5 | 4 | 97 | 168 | 2.01 | < 10 | < 1 | 0.27 | 10 | 0.14 | 815 |
| M706158 | 205 | 294 | < 5 | 0.2 | 0.81 | < 2 | 80 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 88 | 207 | 2.40 | < 10 | < 1 | 0.34 | 10 | 0.20 | 225 |
| M706159 | 205 | 294 | < 5 | 0.6 | 0.77 | < 2 | 50 | < 0.5 | 16 | 0.68 | < 0.5 | 4 | 92 | 172 | 2.33 | < 10 | < 1 | 0.35 | 10 | 0.14 | 285 |
| M706160 | 205 | 294 | < 5 | < 0.2 | 0.94 | < 2 | 120 | < 0.5 | < 2 | 0.84 | < 0.5 | 4 | 90 | 39 | 2.24 | < 10 | < 1 | 0.37 | 10 | 0.28 | 265 |

97-2

97-2

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Page Number : 4-B
 Total Pages : 4
 Certificate Date: 26-OCT-97
 Invoice No. : 19747428
 P.O. Number :
 Account : PFM

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

CERTIFICATE OF ANALYSIS

A9747428

| SAMPLE | PREP | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|------|-----|-----|--------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|------|
| | CODE | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706121 | 205 | 294 | 1 | 0.04 | 4 | 410 | 6 | < 2 | 1 | 96 | 0.02 | < 10 | < 10 | 17 | < 10 | 144 |
| M706122 | 205 | 294 | < 1 | 0.03 | 4 | 400 | 4 | < 2 | 1 | 67 | 0.02 | < 10 | < 10 | 17 | < 10 | 54 |
| M706123 | 205 | 294 | 3 | 0.03 | 4 | 390 | 12 | < 2 | 1 | 59 | 0.02 | < 10 | < 10 | 17 | < 10 | 138 |
| M706124 | 205 | 294 | 3 | 0.04 | 3 | 400 | 30 | < 2 | 1 | 121 | 0.01 | < 10 | < 10 | 17 | < 10 | 332 |
| M706125 | 205 | 294 | < 1 | 0.03 | 3 | 380 | 52 | < 2 | 1 | 66 | 0.01 | < 10 | < 10 | 15 | < 10 | 264 |
| M706126 | 205 | 294 | 4 | 0.03 | 3 | 340 | 66 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 12 | < 10 | 334 |
| M706127 | 205 | 294 | 10 | 0.01 | 3 | 390 | 78 | < 2 | 1 | 70 | < 0.01 | < 10 | < 10 | 9 | < 10 | 908 |
| M706128 | 205 | 294 | 2 | 0.01 | 2 | 380 | 12 | < 2 | < 1 | 75 | < 0.01 | < 10 | < 10 | 5 | < 10 | 1355 |
| M706129 | 205 | 294 | 5 | 0.01 | 2 | 360 | 38 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 4 | < 10 | 182 |
| M706130 | 205 | 294 | 1 | 0.03 | 3 | 410 | 6 | < 2 | 1 | 79 | < 0.01 | < 10 | < 10 | 10 | < 10 | 92 |
| M706131 | 205 | 294 | < 1 | 0.01 | 3 | 380 | 28 | < 2 | < 1 | 76 | < 0.01 | < 10 | < 10 | 5 | < 10 | 152 |
| M706132 | 205 | 294 | < 1 | 0.01 | 3 | 400 | 10 | < 2 | 1 | 98 | < 0.01 | < 10 | < 10 | 7 | < 10 | 186 |
| M706133 | 205 | 294 | 5 | < 0.01 | 2 | 380 | 16 | < 2 | < 1 | 116 | < 0.01 | < 10 | < 10 | 5 | < 10 | 152 |
| M706134 | 205 | 294 | 1 | < 0.01 | 3 | 350 | 8 | < 2 | < 1 | 67 | < 0.01 | < 10 | < 10 | 4 | < 10 | 70 |
| M706135 | 205 | 294 | 22 | < 0.01 | 3 | 320 | 12 | < 2 | < 1 | 133 | < 0.01 | < 10 | < 10 | 4 | 10 | 68 |
| M706136 | 205 | 294 | 4 | < 0.01 | 3 | 160 | 18 | < 2 | < 1 | 150 | < 0.01 | < 10 | < 10 | 3 | < 10 | 68 |
| M706137 | 205 | 294 | 3 | 0.02 | 2 | 200 | 8 | < 2 | < 1 | 120 | < 0.01 | < 10 | < 10 | 3 | < 10 | 62 |
| M706138 | 205 | 294 | 2 | < 0.01 | 1 | 150 | < 2 | < 2 | < 1 | 24 | < 0.01 | < 10 | 10 | 1 | < 10 | 42 |
| M706139 | 205 | 294 | 4 | 0.01 | 1 | 150 | 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 2 | < 10 | 16 |
| M706140 | 205 | 294 | 4 | 0.02 | 1 | 230 | < 2 | < 2 | < 1 | 109 | < 0.01 | < 10 | 10 | 4 | < 10 | 58 |
| M706141 | 205 | 294 | 6 | < 0.01 | 1 | 170 | 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 1 | < 10 | 18 |
| M706142 | 205 | 294 | 8 | 0.01 | 1 | 140 | < 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 1 | < 10 | 18 |
| M706143 | 205 | 294 | 10 | 0.01 | 1 | 90 | < 2 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 1 | < 10 | 30 |
| M706144 | 205 | 294 | 21 | 0.01 | 1 | 100 | 6 | < 2 | < 1 | 21 | < 0.01 | < 10 | < 10 | 1 | < 10 | 78 |
| M706145 | 205 | 294 | 4 | 0.01 | 1 | 100 | < 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 1 | < 10 | 26 |
| M706146 | 205 | 294 | 46 | 0.01 | 3 | 440 | 16 | < 2 | 1 | 24 | < 0.01 | < 10 | < 10 | 13 | < 10 | 540 |
| M706147 | 205 | 294 | 1 | 0.02 | 3 | 400 | 20 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 8 | < 10 | 374 |
| M706148 | 205 | 294 | 28 | 0.01 | 3 | 350 | 16 | < 2 | < 1 | 38 | < 0.01 | < 10 | < 10 | 8 | < 10 | 474 |
| M706149 | 205 | 294 | 114 | 0.01 | 3 | 270 | 8 | < 2 | < 1 | 36 | < 0.01 | < 10 | < 10 | 4 | < 10 | 102 |
| M706150 | 205 | 294 | 122 | 0.02 | 3 | 280 | 10 | < 2 | < 1 | 60 | < 0.01 | < 10 | < 10 | 5 | < 10 | 104 |
| M706151 | 205 | 294 | 41 | 0.02 | 4 | 310 | 6 | < 2 | < 1 | 54 | < 0.01 | < 10 | < 10 | 8 | < 10 | 78 |
| M706152 | 205 | 294 | 113 | 0.03 | 3 | 300 | 2 | < 2 | 1 | 60 | 0.01 | < 10 | < 10 | 12 | < 10 | 42 |
| M706153 | 205 | 294 | 116 | 0.01 | 3 | 260 | 4 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 6 | < 10 | 48 |
| M706154 | 205 | 294 | 21 | 0.02 | 3 | 270 | < 2 | < 2 | < 1 | 32 | < 0.01 | < 10 | < 10 | 7 | < 10 | 30 |
| M706155 | 205 | 294 | 143 | 0.01 | 3 | 310 | 2 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 6 | < 10 | 32 |
| M706156 | 205 | 294 | 68 | 0.01 | 3 | 310 | 6 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 8 | < 10 | 58 |
| M706157 | 205 | 294 | 61 | 0.01 | 3 | 290 | 6 | < 2 | < 1 | 86 | < 0.01 | < 10 | < 10 | 5 | < 10 | 264 |
| M706158 | 205 | 294 | 47 | 0.02 | 4 | 340 | 2 | < 2 | < 1 | 50 | 0.01 | < 10 | < 10 | 11 | < 10 | 74 |
| M706159 | 205 | 294 | 51 | 0.02 | 3 | 340 | 16 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 8 | < 10 | 92 |
| M706160 | 205 | 294 | 54 | 0.03 | 3 | 360 | 4 | < 2 | 1 | 53 | 0.01 | < 10 | < 10 | 15 | < 10 | 46 |

97 -2

97 -2

CERTIFICATION: _____



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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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1420 - 700 W. GEORGIA ST., P.O. BOX 10071
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Project : MUNRO
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Page Number : 1-A
Total Pages : 5
Certificate Date: 27-OCT-97
Invoice No. : 19747430
P.O. Number :
Account : PFM

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|--------|-----------|---------|-----------|
| M706161 | 205 294 | 10 | < 0.2 | 0.90 | < 2 | 170 | < 0.5 | < 2 | 0.61 | < 0.5 | 4 | 99 | 53 | 2.19 | < 10 | < 1 | 0.38 | 10 | 0.31 | 215 |
| M706162 | 205 294 | < 5 | 0.2 | 0.83 | < 2 | 70 | < 0.5 | < 2 | 0.72 | < 0.5 | 3 | 87 | 185 | 2.32 | < 10 | < 1 | 0.32 | 10 | 0.27 | 230 |
| M706163 | 205 294 | < 5 | 0.4 | 0.81 | < 2 | 90 | < 0.5 | < 2 | 0.45 | < 0.5 | 6 | 83 | 142 | 2.62 | < 10 | < 1 | 0.31 | 10 | 0.19 | 225 |
| M706164 | 205 294 | 5 | 0.6 | 0.84 | < 2 | 90 | < 0.5 | < 2 | 0.69 | < 0.5 | 6 | 102 | 256 | 3.22 | < 10 | < 1 | 0.35 | 10 | 0.20 | 380 |
| M706165 | 205 294 | 10 | 1.0 | 0.82 | < 2 | 60 | 0.5 | 2 | 0.77 | < 0.5 | 4 | 82 | 159 | 2.35 | < 10 | < 1 | 0.29 | 10 | 0.18 | 505 |
| M706166 | 205 294 | < 5 | 3.6 | 0.53 | < 2 | 50 | < 0.5 | 10 | 0.83 | 0.5 | 3 | 67 | 112 | 2.48 | < 10 | < 1 | 0.29 | 10 | 0.09 | 675 |
| M706167 | 205 294 | 5 | 0.6 | 0.76 | < 2 | 80 | < 0.5 | 6 | 1.00 | < 0.5 | 3 | 98 | 207 | 1.98 | < 10 | < 1 | 0.30 | 10 | 0.21 | 480 |
| M706168 | 205 294 | < 5 | 0.2 | 0.73 | < 2 | 120 | < 0.5 | < 2 | 0.67 | < 0.5 | 3 | 80 | 106 | 2.16 | < 10 | < 1 | 0.31 | 10 | 0.32 | 240 |
| M706169 | 205 294 | < 5 | < 0.2 | 0.78 | < 2 | 120 | < 0.5 | < 2 | 0.70 | < 0.5 | 4 | 68 | 44 | 2.23 | < 10 | < 1 | 0.31 | 10 | 0.31 | 210 |
| M706170 | 205 294 | < 5 | 0.4 | 0.73 | < 2 | 180 | < 0.5 | 6 | 1.16 | < 0.5 | 4 | 103 | 121 | 1.91 | < 10 | 1 | 0.30 | 10 | 0.21 | 395 |
| M706171 | 205 294 | < 5 | 0.8 | 0.68 | < 2 | 70 | < 0.5 | 6 | 0.73 | 1.5 | 3 | 82 | 262 | 3.09 | < 10 | 1 | 0.30 | 10 | 0.13 | 300 |
| M706172 | 205 294 | < 5 | < 0.2 | 0.89 | < 2 | 130 | < 0.5 | < 2 | 0.84 | < 0.5 | 4 | 87 | 43 | 2.17 | < 10 | < 1 | 0.34 | 10 | 0.30 | 255 |
| M706173 | 205 294 | < 5 | 0.2 | 0.98 | < 2 | 100 | < 0.5 | 4 | 0.64 | < 0.5 | 4 | 109 | 65 | 2.53 | < 10 | 1 | 0.34 | 10 | 0.27 | 195 |
| M706174 | 205 294 | < 5 | < 0.2 | 0.98 | < 2 | 140 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 86 | 65 | 2.58 | < 10 | < 1 | 0.42 | 10 | 0.29 | 165 |
| M706175 | 205 294 | < 5 | < 0.2 | 1.03 | < 2 | 110 | < 0.5 | < 2 | 0.80 | < 0.5 | 4 | 84 | 52 | 2.66 | < 10 | < 1 | 0.40 | 10 | 0.32 | 220 |
| M706176 | 205 294 | < 5 | 0.2 | 0.97 | < 2 | 90 | < 0.5 | < 2 | 1.41 | < 0.5 | 3 | 89 | 84 | 1.96 | < 10 | < 1 | 0.34 | 10 | 0.24 | 310 |
| M706177 | 205 294 | < 5 | 1.4 | 0.84 | 2 | 100 | < 0.5 | 6 | 0.88 | < 0.5 | 3 | 87 | 29 | 1.95 | < 10 | < 1 | 0.30 | 10 | 0.25 | 220 |
| M706178 | 205 294 | < 5 | < 0.2 | 1.00 | < 2 | 90 | < 0.5 | < 2 | 1.58 | < 0.5 | 3 | 81 | 52 | 1.99 | < 10 | 1 | 0.27 | 10 | 0.25 | 335 |
| M706179 | 205 294 | < 5 | < 0.2 | 0.93 | < 2 | 110 | < 0.5 | < 2 | 0.67 | < 0.5 | 3 | 111 | 10 | 2.80 | < 10 | < 1 | 0.36 | 10 | 0.26 | 155 |
| M706180 | 205 294 | < 5 | < 0.2 | 0.88 | < 2 | 90 | < 0.5 | < 2 | 0.67 | < 0.5 | 3 | 85 | 41 | 2.99 | < 10 | 1 | 0.34 | 10 | 0.26 | 170 |
| M706181 | 205 294 | < 5 | < 0.2 | 0.69 | 2 | 80 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 58 | 23 | 3.11 | < 10 | < 1 | 0.28 | 10 | 0.23 | 135 |
| M706182 | 205 294 | < 5 | < 0.2 | 0.92 | < 2 | 100 | < 0.5 | < 2 | 0.72 | < 0.5 | 3 | 97 | 96 | 2.18 | < 10 | < 1 | 0.33 | 10 | 0.34 | 225 |
| M706183 | 205 294 | < 5 | < 0.2 | 0.77 | 2 | 100 | < 0.5 | 2 | 0.56 | < 0.5 | 3 | 83 | 47 | 2.11 | < 10 | < 1 | 0.30 | 10 | 0.29 | 175 |
| M706184 | 205 294 | < 5 | < 0.2 | 0.85 | 2 | 130 | < 0.5 | < 2 | 0.71 | < 0.5 | 3 | 91 | 44 | 1.68 | < 10 | 1 | 0.31 | 10 | 0.40 | 225 |
| M706185 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 170 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 111 | 20 | 1.91 | < 10 | < 1 | 0.31 | 10 | 0.34 | 240 |
| M706186 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 130 | < 0.5 | < 2 | 0.61 | < 0.5 | 3 | 104 | 27 | 1.66 | < 10 | < 1 | 0.32 | 10 | 0.38 | 235 |
| M706187 | 205 294 | < 5 | < 0.2 | 0.70 | < 2 | 120 | < 0.5 | < 2 | 0.82 | < 0.5 | 4 | 104 | 21 | 1.83 | < 10 | < 1 | 0.29 | 10 | 0.33 | 260 |
| M706188 | 205 294 | < 5 | < 0.2 | 0.91 | < 2 | 160 | < 0.5 | < 2 | 0.97 | < 0.5 | 3 | 122 | 32 | 1.87 | < 10 | < 1 | 0.31 | 10 | 0.35 | 310 |
| M706189 | 205 294 | < 5 | < 0.2 | 0.69 | < 2 | 100 | < 0.5 | < 2 | 0.73 | < 0.5 | 4 | 43 | 25 | 1.45 | < 10 | < 1 | 0.12 | 10 | 0.41 | 360 |
| M706190 | 205 294 | < 5 | < 0.2 | 0.83 | < 2 | 100 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 30 | 24 | 1.47 | < 10 | < 1 | 0.12 | 10 | 0.47 | 375 |
| M706191 | 205 294 | < 5 | < 0.2 | 1.36 | < 2 | 150 | < 0.5 | < 2 | 0.80 | < 0.5 | 4 | 57 | 41 | 2.17 | < 10 | < 1 | 0.23 | 10 | 0.42 | 285 |
| M706192 | 205 294 | < 5 | 0.2 | 0.71 | < 2 | 60 | < 0.5 | < 2 | 0.98 | < 0.5 | 3 | 119 | 10 | 2.44 | < 10 | 1 | 0.38 | 10 | 0.13 | 255 |
| M706193 | 205 294 | < 5 | 0.4 | 0.65 | < 2 | 70 | < 0.5 | < 2 | 0.76 | < 0.5 | 3 | 56 | 28 | 2.18 | < 10 | < 1 | 0.31 | 10 | 0.17 | 250 |
| M706194 | 205 294 | < 5 | 0.6 | 0.72 | < 2 | 60 | 0.5 | 6 | 1.12 | 0.5 | 3 | 85 | 96 | 2.41 | < 10 | < 1 | 0.42 | 10 | 0.12 | 475 |
| M706195 | 205 294 | < 5 | 1.0 | 0.82 | < 2 | 70 | < 0.5 | < 2 | 1.13 | 1.0 | 5 | 123 | 51 | 3.56 | < 10 | 1 | 0.30 | 10 | 0.16 | 575 |
| M706196 | 205 294 | < 5 | 0.6 | 0.68 | < 2 | 100 | < 0.5 | 2 | 1.18 | 0.5 | 5 | 99 | 26 | 2.48 | < 10 | < 1 | 0.25 | < 10 | 0.11 | 555 |
| M706197 | 205 294 | < 5 | 3.4 | 0.60 | 4 | 50 | < 0.5 | 22 | 1.24 | 5.5 | 3 | 131 | 685 | 2.48 | < 10 | < 1 | 0.29 | 10 | 0.13 | 655 |
| M706198 | 205 294 | < 5 | < 0.2 | 0.79 | < 2 | 90 | < 0.5 | < 2 | 0.97 | < 0.5 | 4 | 122 | 35 | 2.16 | < 10 | < 1 | 0.32 | 10 | 0.26 | 495 |
| M706199 | 205 294 | < 5 | < 0.2 | 1.66 | < 2 | 850 | 0.5 | < 2 | 0.89 | < 0.5 | 3 | 26 | 20 | 1.28 | < 10 | 1 | 0.15 | 10 | 0.25 | 635 |
| M706200 | 205 294 | < 5 | < 0.2 | 0.49 | < 2 | 60 | < 0.5 | < 2 | 0.90 | < 0.5 | 3 | 43 | 19 | 1.36 | < 10 | < 1 | 0.17 | 10 | 0.16 | 855 |

CERTIFICATION:



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Analytical Chemists * Geochemists * Registered Assayers

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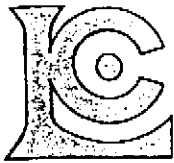
CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706161 | 205 294 | 35 | 0.03 | 3 | 330 | < 2 | < 2 | 1 | 44 | 0.03 | < 10 | < 10 | 17 | < 10 | 50 |
| M706162 | 205 294 | 37 | 0.03 | 3 | 350 | < 2 | < 2 | 1 | 45 | 0.01 | < 10 | < 10 | 17 | < 10 | 56 |
| M706163 | 205 294 | 66 | 0.02 | 3 | 330 | 4 | < 2 | 1 | 62 | < 0.01 | < 10 | < 10 | 11 | < 10 | 44 |
| M706164 | 205 294 | 125 | 0.03 | 3 | 380 | 6 | < 2 | 1 | 56 | < 0.01 | < 10 | < 10 | 13 | < 10 | 74 |
| M706165 | 205 294 | 55 | 0.02 | 3 | 340 | 18 | < 2 | 1 | 70 | < 0.01 | < 10 | < 10 | 11 | < 10 | 88 |
| M706166 | 205 294 | 34 | < 0.01 | 2 | 310 | 180 | < 2 | < 1 | 49 | < 0.01 | < 10 | < 10 | 5 | < 10 | 370 |
| M706167 | 205 294 | 55 | 0.02 | 3 | 340 | 6 | < 2 | 1 | 87 | < 0.01 | < 10 | < 10 | 12 | < 10 | 82 |
| M706168 | 205 294 | 36 | 0.03 | 3 | 330 | < 2 | < 2 | 1 | 57 | 0.02 | < 10 | < 10 | 17 | < 10 | 42 |
| M706169 | 205 294 | 43 | 0.03 | 3 | 340 | < 2 | < 2 | 1 | 67 | 0.02 | < 10 | < 10 | 16 | < 10 | 40 |
| M706170 | 205 294 | 21 | 0.03 | 3 | 350 | 6 | < 2 | 1 | 83 | 0.01 | < 10 | < 10 | 13 | < 10 | 94 |
| M706171 | 205 294 | 58 | 0.01 | 3 | 350 | 8 | < 2 | < 1 | 63 | < 0.01 | < 10 | < 10 | 7 | < 10 | 838 |
| M706172 | 205 294 | 24 | 0.04 | 3 | 360 | < 2 | < 2 | 1 | 66 | 0.01 | < 10 | < 10 | 16 | < 10 | 44 |
| M706173 | 205 294 | 38 | 0.03 | 4 | 350 | 2 | < 2 | 1 | 73 | 0.01 | < 10 | < 10 | 14 | < 10 | 40 |
| M706174 | 205 294 | 146 | 0.03 | 3 | 350 | < 2 | < 2 | 1 | 34 | 0.02 | < 10 | < 10 | 17 | < 10 | 38 |
| M706175 | 205 294 | 89 | 0.04 | 3 | 360 | < 2 | < 2 | 1 | 53 | 0.02 | < 10 | < 10 | 18 | < 10 | 44 |
| M706176 | 205 294 | 41 | 0.03 | 3 | 340 | 2 | < 2 | 1 | 92 | 0.01 | < 10 | < 10 | 15 | < 10 | 46 |
| M706177 | 205 294 | 81 | 0.03 | 3 | 340 | 8 | < 2 | 1 | 83 | 0.01 | < 10 | < 10 | 15 | < 10 | 38 |
| M706178 | 205 294 | 37 | 0.03 | 3 | 340 | < 2 | < 2 | 1 | 125 | < 0.01 | < 10 | < 10 | 14 | < 10 | 38 |
| M706179 | 205 294 | 10 | 0.03 | 4 | 350 | < 2 | < 2 | 1 | 46 | 0.01 | < 10 | < 10 | 14 | < 10 | 30 |
| M706180 | 205 294 | 20 | 0.03 | 3 | 380 | < 2 | < 2 | 1 | 44 | 0.01 | < 10 | < 10 | 13 | < 10 | 38 |
| M706181 | 205 294 | < 1 | 0.01 | 3 | 350 | < 2 | < 2 | 1 | 31 | 0.01 | < 10 | < 10 | 11 | < 10 | 28 |
| M706182 | 205 294 | 6 | 0.04 | 3 | 340 | < 2 | < 2 | 1 | 59 | 0.01 | < 10 | < 10 | 18 | < 10 | 38 |
| M706183 | 205 294 | 34 | 0.03 | 3 | 320 | < 2 | < 2 | 1 | 48 | 0.01 | < 10 | < 10 | 16 | < 10 | 34 |
| M706184 | 205 294 | 65 | 0.04 | 3 | 330 | 2 | < 2 | 1 | 65 | 0.03 | < 10 | < 10 | 21 | < 10 | 44 |
| M706185 | 205 294 | 17 | 0.04 | 3 | 360 | < 2 | < 2 | 2 | 53 | 0.03 | < 10 | < 10 | 21 | < 10 | 40 |
| M706186 | 205 294 | 5 | 0.05 | 3 | 340 | < 2 | < 2 | 2 | 42 | 0.04 | < 10 | < 10 | 22 | < 10 | 44 |
| M706187 | 205 294 | 11 | 0.04 | 4 | 330 | < 2 | < 2 | 1 | 47 | 0.03 | < 10 | < 10 | 18 | < 10 | 38 |
| M706188 | 205 294 | 13 | 0.05 | 4 | 360 | 2 | < 2 | 1 | 152 | < 0.01 | < 10 | < 10 | 17 | < 10 | 52 |
| M706189 | 205 294 | 1 | 0.09 | 3 | 310 | < 2 | < 2 | 2 | 80 | 0.05 | < 10 | < 10 | 28 | < 10 | 40 |
| M706190 | 205 294 | 1 | 0.08 | 3 | 300 | < 2 | < 2 | 2 | 125 | 0.05 | < 10 | < 10 | 28 | < 10 | 42 |
| M706191 | 205 294 | 13 | 0.07 | 3 | 320 | 4 | < 2 | 1 | 259 | < 0.01 | < 10 | < 10 | 16 | < 10 | 54 |
| M706192 | 205 294 | 8 | 0.03 | 3 | 300 | 14 | < 2 | < 1 | 46 | < 0.01 | < 10 | < 10 | 6 | < 10 | 176 |
| M706193 | 205 294 | 43 | 0.02 | 1 | 330 | 10 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 10 | < 10 | 146 |
| M706194 | 205 294 | 16 | 0.01 | 2 | 340 | 22 | < 2 | < 1 | 42 | < 0.01 | < 10 | < 10 | 7 | < 10 | 294 |
| M706195 | 205 294 | 39 | 0.05 | 3 | 290 | 18 | < 2 | < 1 | 160 | < 0.01 | < 10 | < 10 | 8 | < 10 | 538 |
| M706196 | 205 294 | 61 | 0.09 | 3 | 230 | 16 | < 2 | < 1 | 325 | < 0.01 | < 10 | < 10 | 6 | < 10 | 404 |
| M706197 | 205 294 | 13 | 0.02 | 4 | 290 | 40 | < 2 | < 1 | 62 | < 0.01 | < 10 | < 10 | 6 | < 10 | 2760 |
| M706198 | 205 294 | 17 | 0.04 | 3 | 310 | 2 | < 2 | 1 | 68 | 0.01 | < 10 | < 10 | 13 | < 10 | 98 |
| M706199 | 205 294 | < 1 | 0.42 | 2 | 260 | 4 | < 2 | 2 | 1710 | 0.01 | < 10 | < 10 | 15 | < 10 | 52 |
| M706200 | 205 294 | 3 | 0.07 | 3 | 280 | 2 | < 2 | 1 | 74 | 0.01 | < 10 | < 10 | 14 | < 10 | 92 |

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
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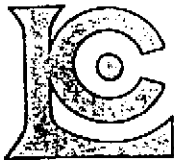
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Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :2-A
Total Pages :5
Certificate Date: 27-OCT-97
Invoice No. :19747430
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS A9747430

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| M706201 | 205 294 | < 5 | 0.2 | 0.68 | < 2 | 90 | < 0.5 | < 2 | 1.68 | < 0.5 | 3 | 125 | 11 | 2.15 | < 10 | < 1 | 0.38 | 10 | 0.14 | 1235 |
| M706202 | 205 294 | < 5 | 1.4 | 0.53 | 4 | 50 | < 0.5 | 2 | 0.74 | 1.0 | 4 | 77 | 21 | 3.46 | < 10 | < 1 | 0.34 | < 10 | 0.06 | 685 |
| M706203 | 205 294 | < 5 | 1.6 | 0.51 | < 2 | 40 | < 0.5 | 2 | 0.64 | 0.5 | 3 | 91 | 85 | 3.34 | < 10 | < 1 | 0.38 | < 10 | 0.04 | 810 |
| M706204 | 205 294 | < 5 | 0.2 | 0.49 | < 2 | 50 | < 0.5 | < 2 | 0.59 | < 0.5 | 1 | 109 | 8 | 2.11 | < 10 | < 1 | 0.31 | < 10 | 0.04 | 545 |
| M706205 | 205 294 | < 5 | 2.2 | 0.42 | 4 | 40 | < 0.5 | 4 | 0.43 | < 0.5 | 6 | 84 | 709 | 4.17 | < 10 | < 1 | 0.28 | < 10 | 0.04 | 240 |
| M706206 | 205 294 | < 5 | < 0.2 | 0.44 | 2 | 50 | < 0.5 | < 2 | 0.69 | < 0.5 | 2 | 97 | 6 | 1.92 | < 10 | < 1 | 0.29 | < 10 | 0.06 | 415 |
| M706207 | 205 294 | < 5 | < 0.2 | 0.57 | < 2 | 90 | < 0.5 | < 2 | 0.78 | < 0.5 | 5 | 97 | 11 | 2.00 | < 10 | < 1 | 0.27 | < 10 | 0.08 | 435 |
| M706208 | 205 294 | < 5 | < 0.2 | 0.54 | < 2 | 110 | < 0.5 | < 2 | 0.81 | < 0.5 | 3 | 33 | 19 | 1.26 | < 10 | < 1 | 0.16 | 10 | 0.26 | 445 |
| M706209 | 205 294 | < 5 | < 0.2 | 0.39 | 2 | 40 | < 0.5 | < 2 | 0.17 | < 0.5 | 3 | 92 | 1 | 2.67 | < 10 | < 1 | 0.24 | < 10 | 0.05 | 65 |
| M706210 | 205 294 | < 5 | < 0.2 | 0.60 | < 2 | 70 | < 0.5 | < 2 | 0.34 | < 0.5 | 2 | 101 | 4 | 1.48 | < 10 | < 1 | 0.32 | < 10 | 0.12 | 260 |
| M706211 | 205 294 | < 5 | 0.8 | 0.49 | < 2 | 50 | < 0.5 | 6 | 0.46 | < 0.5 | 3 | 85 | 164 | 2.47 | < 10 | < 1 | 0.28 | < 10 | 0.07 | 285 |
| M706212 | 205 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 0.44 | < 0.5 | 4 | 96 | 8 | 2.58 | < 10 | < 1 | 0.25 | < 10 | 0.05 | 195 |
| M706213 | 205 294 | < 5 | < 0.2 | 0.36 | < 2 | 50 | < 0.5 | < 2 | 0.60 | < 0.5 | 3 | 98 | 12 | 1.68 | < 10 | < 1 | 0.24 | < 10 | 0.08 | 290 |
| M706214 | 205 294 | < 5 | < 0.2 | 0.33 | < 2 | 40 | < 0.5 | < 2 | 0.48 | < 0.5 | 3 | 71 | 5 | 1.85 | < 10 | < 1 | 0.23 | < 10 | 0.09 | 195 |
| M706215 | 205 294 | < 5 | < 0.2 | 0.64 | < 2 | 400 | < 0.5 | < 2 | 0.77 | < 0.5 | 3 | 54 | 17 | 1.39 | < 10 | < 1 | 0.17 | 10 | 0.23 | 335 |
| M706216 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 90 | < 0.5 | < 2 | 1.53 | < 0.5 | 3 | 42 | 19 | 1.44 | < 10 | < 1 | 0.15 | 10 | 0.23 | 335 |
| M706217 | 205 294 | < 5 | < 0.2 | 0.44 | < 2 | 50 | < 0.5 | < 2 | 0.55 | < 0.5 | 4 | 72 | 5 | 3.27 | < 10 | < 1 | 0.25 | < 10 | 0.06 | 125 |
| M706218 | 205 294 | < 5 | < 0.2 | 0.57 | < 2 | 60 | < 0.5 | < 2 | 1.02 | < 0.5 | 3 | 94 | 5 | 2.24 | < 10 | < 1 | 0.31 | < 10 | 0.07 | 330 |
| M706219 | 205 294 | < 5 | < 0.2 | 1.51 | < 2 | 160 | 0.5 | 2 | 1.03 | < 0.5 | 3 | 64 | 18 | 1.80 | < 10 | < 1 | 0.24 | 10 | 0.19 | 285 |
| M706220 | 205 294 | < 5 | < 0.2 | 2.30 | < 2 | 880 | 0.5 | < 2 | 1.59 | < 0.5 | 3 | 14 | 19 | 1.25 | < 10 | < 1 | 0.17 | 20 | 0.31 | 475 |
| M706221 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 230 | < 0.5 | < 2 | 0.82 | < 0.5 | 1 | 70 | 17 | 1.37 | < 10 | < 1 | 0.24 | 10 | 0.13 | 295 |
| M706222 | 205 294 | < 5 | < 0.2 | 0.41 | < 2 | 50 | < 0.5 | < 2 | 0.62 | < 0.5 | 6 | 103 | 35 | 1.63 | < 10 | < 1 | 0.24 | < 10 | 0.09 | 265 |
| M706223 | 205 294 | < 5 | < 0.2 | 0.40 | < 2 | 50 | < 0.5 | < 2 | 0.68 | < 0.5 | 4 | 63 | 16 | 2.90 | < 10 | < 1 | 0.26 | < 10 | 0.05 | 215 |
| M706224 | 205 294 | < 5 | < 0.2 | 0.49 | < 2 | 60 | < 0.5 | < 2 | 0.71 | < 0.5 | 2 | 92 | 6 | 1.49 | < 10 | < 1 | 0.23 | < 10 | 0.13 | 205 |
| M706225 | 205 294 | < 5 | < 0.2 | 0.40 | 2 | 50 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 79 | 10 | 1.70 | < 10 | < 1 | 0.20 | < 10 | 0.11 | 140 |
| M706226 | 205 294 | < 5 | < 0.2 | 0.55 | < 2 | 50 | < 0.5 | < 2 | 0.90 | < 0.5 | 4 | 40 | 13 | 1.55 | < 10 | < 1 | 0.12 | < 10 | 0.16 | 290 |
| M706227 | 205 294 | < 5 | < 0.2 | 0.58 | 6 | 60 | < 0.5 | < 2 | 1.31 | < 0.5 | 3 | 46 | 35 | 1.55 | < 10 | < 1 | 0.16 | < 10 | 0.17 | 380 |
| M706228 | 205 294 | < 5 | < 0.2 | 0.68 | < 2 | 70 | < 0.5 | < 2 | 1.43 | < 0.5 | 3 | 44 | 14 | 1.35 | < 10 | < 1 | 0.11 | 10 | 0.21 | 405 |
| M706229 | 205 294 | < 5 | < 0.2 | 0.69 | 2 | 80 | < 0.5 | < 2 | 1.20 | < 0.5 | 2 | 28 | 19 | 1.24 | < 10 | < 1 | 0.12 | 10 | 0.21 | 435 |
| M706230 | 205 294 | < 5 | < 0.2 | 0.59 | < 2 | 50 | < 0.5 | < 2 | 0.74 | < 0.5 | 3 | 93 | 35 | 1.58 | < 10 | < 1 | 0.21 | 10 | 0.14 | 225 |
| M706231 | 205 294 | < 5 | < 0.2 | 0.43 | < 2 | 70 | < 0.5 | < 2 | 0.40 | < 0.5 | 1 | 89 | 7 | 1.28 | < 10 | < 1 | 0.21 | < 10 | 0.15 | 170 |
| M706232 | 205 294 | < 5 | < 0.2 | 0.39 | < 2 | 50 | < 0.5 | < 2 | 0.35 | < 0.5 | 2 | 76 | 11 | 2.01 | < 10 | < 1 | 0.24 | < 10 | 0.08 | 105 |
| M706233 | 205 294 | < 5 | < 0.2 | 0.40 | 2 | 40 | < 0.5 | 2 | 0.46 | 0.5 | 3 | 86 | 78 | 1.88 | < 10 | < 1 | 0.23 | < 10 | 0.09 | 130 |
| M706234 | 205 294 | < 5 | 0.2 | 0.50 | < 2 | 40 | < 0.5 | 26 | 0.62 | < 0.5 | 2 | 80 | 249 | 2.15 | < 10 | < 1 | 0.20 | < 10 | 0.09 | 190 |
| M706235 | 205 294 | < 5 | 0.8 | 0.38 | < 2 | 40 | < 0.5 | 12 | 1.46 | 0.5 | 2 | 81 | 103 | 1.95 | < 10 | < 1 | 0.20 | < 10 | 0.09 | 385 |
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| M706237 | 205 294 | < 5 | < 0.2 | 0.46 | < 2 | 40 | < 0.5 | < 2 | 0.76 | < 0.5 | 1 | 99 | 93 | 1.80 | < 10 | < 1 | 0.22 | < 10 | 0.10 | 205 |
| M706238 | 205 294 | < 5 | < 0.2 | 0.47 | < 2 | 40 | < 0.5 | < 2 | 0.86 | < 0.5 | 1 | 76 | 46 | 1.78 | < 10 | < 1 | 0.22 | < 10 | 0.09 | 195 |
| M706239 | 205 294 | < 5 | < 0.2 | 0.63 | < 2 | 80 | < 0.5 | < 2 | 0.77 | < 0.5 | 1 | 110 | 23 | 1.40 | < 10 | < 1 | 0.28 | < 10 | 0.19 | 270 |
| M706240 | 205 294 | < 5 | 2.4 | 0.44 | < 2 | 40 | < 0.5 | 22 | 1.24 | < 0.5 | 1 | 112 | 95 | 2.01 | < 10 | < 1 | 0.24 | < 10 | 0.07 | 365 |

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

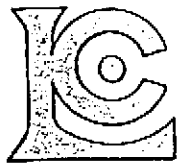
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 Invoice No. :19747430
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 Account :PFM

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706201 | 205 294 | 34 | 0.02 | 4 | 370 | 8 | < 2 | 1 | 65 | < 0.01 | < 10 | < 10 | 8 | < 10 | 258 |
| M706202 | 205 294 | 19 | 0.01 | 4 | 320 | 8 | < 2 | < 1 | 30 | < 0.01 | < 10 | < 10 | 4 | < 10 | 968 |
| M706203 | 205 294 | 11 | 0.01 | 1 | 190 | 14 | < 2 | < 1 | 20 | < 0.01 | < 10 | < 10 | 3 | < 10 | 488 |
| M706204 | 205 294 | 8 | 0.01 | 2 | 180 | 6 | < 2 | < 1 | 28 | < 0.01 | < 10 | < 10 | 3 | < 10 | 74 |
| M706205 | 205 294 | 32 | 0.01 | 2 | 160 | 4 | < 2 | < 1 | 18 | < 0.01 | < 10 | < 10 | 3 | < 10 | 32 |
| M706206 | 205 294 | < 1 | 0.03 | 1 | 230 | 4 | < 2 | < 1 | 28 | < 0.01 | < 10 | < 10 | 4 | < 10 | 44 |
| M706207 | 205 294 | 23 | 0.04 | 2 | 190 | 6 | < 2 | < 1 | 221 | < 0.01 | < 10 | < 10 | 5 | < 10 | 180 |
| M706208 | 205 294 | 2 | 0.09 | 3 | 290 | 2 | < 2 | 3 | 57 | 0.04 | < 10 | < 10 | 23 | < 10 | 36 |
| M706209 | 205 294 | < 1 | 0.01 | 3 | 200 | 2 | < 2 | < 1 | 18 | < 0.01 | < 10 | < 10 | 3 | < 10 | 8 |
| M706210 | 205 294 | 25 | 0.03 | 1 | 210 | 2 | < 2 | < 1 | 48 | < 0.01 | < 10 | < 10 | 5 | < 10 | 28 |
| M706211 | 205 294 | 8 | 0.02 | 2 | 150 | 8 | < 2 | < 1 | 33 | < 0.01 | < 10 | < 10 | 4 | < 10 | 42 |
| M706212 | 205 294 | 3 | 0.01 | 3 | 170 | 4 | < 2 | < 1 | 29 | < 0.01 | < 10 | < 10 | 3 | < 10 | 20 |
| M706213 | 205 294 | 26 | 0.03 | 2 | 200 | 4 | < 2 | 1 | 27 | < 0.01 | < 10 | < 10 | 6 | < 10 | 36 |
| M706214 | 205 294 | 26 | 0.02 | 1 | 210 | 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 6 | < 10 | 30 |
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| M706217 | 205 294 | 9 | 0.02 | 3 | 240 | 6 | < 2 | < 1 | 23 | < 0.01 | < 10 | < 10 | 4 | < 10 | 34 |
| M706218 | 205 294 | 1 | 0.03 | 2 | 240 | 6 | < 2 | < 1 | 54 | < 0.01 | < 10 | < 10 | 4 | < 10 | 22 |
| M706219 | 205 294 | 4 | 0.58 | 3 | 220 | 10 | < 2 | 2 | 1005 | < 0.01 | < 10 | < 10 | 10 | < 10 | 30 |
| M706220 | 205 294 | < 1 | 0.92 | 1 | 280 | 10 | < 2 | 3 | 2280 | < 0.01 | < 10 | < 10 | 15 | < 10 | 44 |
| M706221 | 205 294 | < 1 | 0.11 | 1 | 230 | 6 | < 2 | 1 | 536 | < 0.01 | < 10 | < 10 | 8 | < 10 | 40 |
| M706222 | 205 294 | < 1 | 0.04 | 2 | 230 | 4 | < 2 | < 1 | 32 | < 0.01 | < 10 | < 10 | 6 | < 10 | 42 |
| M706223 | 205 294 | 44 | 0.02 | 2 | 210 | 2 | < 2 | < 1 | 31 | < 0.01 | < 10 | < 10 | 4 | < 10 | 34 |
| M706224 | 205 294 | 1 | 0.04 | 2 | 240 | 2 | < 2 | 1 | 37 | < 0.01 | < 10 | < 10 | 8 | < 10 | 28 |
| M706225 | 205 294 | 14 | 0.03 | 3 | 230 | 6 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 6 | < 10 | 26 |
| M706226 | 205 294 | 6 | 0.06 | 2 | 240 | 6 | < 2 | 1 | 95 | < 0.01 | < 10 | < 10 | 10 | < 10 | 36 |
| M706227 | 205 294 | 1 | 0.06 | 2 | 260 | 6 | < 2 | 1 | 104 | < 0.01 | < 10 | < 10 | 10 | < 10 | 32 |
| M706228 | 205 294 | 4 | 0.06 | 1 | 270 | < 2 | < 2 | 1 | 107 | < 0.01 | < 10 | < 10 | 16 | < 10 | 36 |
| M706229 | 205 294 | 1 | 0.06 | 2 | 280 | 2 | < 2 | 2 | 100 | 0.01 | < 10 | < 1 | 18 | < 10 | 36 |
| M706230 | 205 294 | 12 | 0.05 | 3 | 240 | 2 | < 2 | 1 | 58 | < 0.01 | < 10 | < 10 | 10 | < 10 | 68 |
| M706231 | 205 294 | 6 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 18 | < 0.01 | < 10 | < 10 | 10 | < 10 | 42 |
| M706232 | 205 294 | 128 | 0.02 | 1 | 170 | < 2 | < 2 | < 1 | 15 | < 0.01 | < 10 | < 10 | 6 | < 10 | 30 |
| M706233 | 205 294 | 5 | 0.03 | 2 | 210 | 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 6 | < 10 | 306 |
| M706234 | 205 294 | 8 | 0.02 | 2 | 200 | 6 | < 2 | < 1 | 48 | < 0.01 | < 10 | < 10 | 4 | < 10 | 104 |
| M706235 | 205 294 | 11 | 0.02 | 2 | 180 | 46 | < 2 | < 1 | 56 | < 0.01 | < 10 | < 10 | 5 | < 10 | 468 |
| M706236 | 205 294 | 3 | 0.04 | 2 | 220 | 2 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 8 | < 10 | 316 |
| M706237 | 205 294 | 1 | 0.03 | 2 | 220 | 2 | < 2 | < 1 | 42 | < 0.01 | < 10 | < 10 | 6 | < 10 | 88 |
| M706238 | 205 294 | 9 | 0.02 | 1 | 200 | 4 | < 2 | < 1 | 44 | < 0.01 | < 10 | < 10 | 6 | < 10 | 92 |
| M706239 | 205 294 | 4 | 0.04 | 3 | 240 | 2 | < 2 | 1 | 42 | 0.01 | < 10 | < 10 | 12 | < 10 | 56 |
| M706240 | 205 294 | 3 | 0.02 | 3 | 200 | 28 | < 2 | < 1 | 57 | < 0.01 | < 10 | < 10 | 4 | < 10 | 62 |

CERTIFICATION:



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97-2

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 P.O. Number :
 Account :PFM

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|--------------------------------|-----------------|
| CERTIFICATE OF ANALYSIS | A9747430 |
|--------------------------------|-----------------|

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
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| | FA | AA | | | | | | | | | | | | | | | | | | | |
| M706241 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 30 | < 0.5 | < 2 | 1.35 | < 0.5 | 1 | 83 | 18 | 1.31 | < 10 | < 1 | 0.21 | < 10 | 0.07 | 280 |
| M706242 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 40 | < 0.5 | < 2 | 1.01 | < 0.5 | 2 | 105 | 77 | 1.75 | < 10 | < 1 | 0.25 | < 10 | 0.08 | 210 |
| M706243 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 50 | < 0.5 | < 2 | 0.75 | < 0.5 | 3 | 123 | 71 | 1.70 | < 10 | < 1 | 0.32 | < 10 | 0.11 | 215 |
| M706244 | 205 | 294 | < 5 | 0.2 | 0.53 | < 2 | 40 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 125 | 8 | 1.98 | < 10 | < 1 | 0.24 | < 10 | 0.09 | 240 |
| M706245 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 60 | < 0.5 | < 2 | 0.47 | < 0.5 | 1 | 126 | 5 | 1.77 | < 10 | < 1 | 0.31 | < 10 | 0.05 | 165 |
| M706246 | 205 | 294 | < 5 | < 0.2 | 0.76 | < 2 | 80 | < 0.5 | < 2 | 1.17 | < 0.5 | 3 | 63 | 22 | 1.39 | < 10 | < 1 | 0.20 | 10 | 0.32 | 345 |
| M706247 | 205 | 294 | < 5 | < 0.2 | 0.67 | 2 | 80 | < 0.5 | < 2 | 0.98 | < 0.5 | 4 | 58 | 18 | 1.48 | < 10 | < 1 | 0.14 | 10 | 0.45 | 305 |
| M706248 | 205 | 294 | < 5 | < 0.2 | 0.71 | 2 | 50 | < 0.5 | < 2 | 0.87 | < 0.5 | 2 | 88 | 29 | 2.24 | < 10 | < 1 | 0.33 | < 10 | 0.12 | 200 |
| M706249 | 205 | 294 | < 5 | 0.2 | 0.65 | < 2 | 60 | < 0.5 | < 2 | 2.01 | < 0.5 | 2 | 94 | 68 | 2.42 | < 10 | < 1 | 0.32 | < 10 | 0.12 | 510 |
| M706250 | 205 | 294 | < 5 | 0.4 | 0.54 | < 2 | 50 | < 0.5 | 2 | 0.50 | < 0.5 | 2 | 102 | 389 | 2.27 | < 10 | < 1 | 0.35 | < 10 | 0.06 | 240 |
| M706251 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 50 | < 0.5 | < 2 | 0.53 | < 0.5 | 4 | 84 | 146 | 2.22 | < 10 | < 1 | 0.27 | 10 | 0.15 | 185 |
| M706252 | 205 | 294 | < 5 | < 0.2 | 0.66 | 2 | 60 | < 0.5 | < 2 | 1.39 | < 0.5 | 2 | 85 | 42 | 1.42 | < 10 | < 1 | 0.27 | 10 | 0.15 | 240 |
| M706253 | 205 | 294 | < 5 | 0.2 | 0.40 | < 2 | 50 | < 0.5 | 16 | 0.78 | < 0.5 | 1 | 100 | 333 | 1.88 | < 10 | < 1 | 0.29 | < 10 | 0.06 | 200 |
| M706254 | 205 | 294 | < 5 | 0.2 | 0.36 | 2 | 50 | < 0.5 | 2 | 0.79 | < 0.5 | 1 | 63 | 149 | 1.78 | < 10 | < 1 | 0.25 | < 10 | 0.06 | 280 |
| M706255 | 205 | 294 | < 5 | 0.2 | 0.47 | < 2 | 50 | < 0.5 | 12 | 0.71 | < 0.5 | 3 | 112 | 419 | 2.24 | < 10 | < 1 | 0.31 | < 10 | 0.07 | 155 |
| M706256 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 60 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 124 | 36 | 1.63 | < 10 | < 1 | 0.31 | < 10 | 0.08 | 145 |
| M706257 | 205 | 294 | < 5 | < 0.2 | 0.43 | 2 | 60 | < 0.5 | < 2 | 0.87 | < 0.5 | < 1 | 98 | 19 | 1.55 | < 10 | < 1 | 0.26 | < 10 | 0.08 | 160 |
| M706258 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 60 | < 0.5 | < 2 | 0.59 | < 0.5 | 1 | 78 | 11 | 1.64 | < 10 | < 1 | 0.26 | < 10 | 0.12 | 135 |
| M706259 | 205 | 294 | < 5 | < 0.2 | 0.62 | 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 2 | 100 | 5 | 2.10 | < 10 | < 1 | 0.33 | < 10 | 0.09 | 135 |
| M706260 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 60 | < 0.5 | < 2 | 0.73 | < 0.5 | 1 | 98 | 27 | 1.73 | < 10 | < 1 | 0.29 | < 10 | 0.09 | 120 |
| M706261 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 60 | < 0.5 | < 2 | 0.63 | < 0.5 | 2 | 114 | 93 | 1.78 | < 10 | < 1 | 0.30 | < 10 | 0.09 | 125 |
| M706262 | 205 | 294 | < 5 | < 0.2 | 0.55 | 2 | 80 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 137 | 5 | 1.73 | < 10 | < 1 | 0.30 | < 10 | 0.10 | 170 |
| M706263 | 205 | 294 | < 5 | < 0.2 | 0.35 | < 2 | 50 | < 0.5 | < 2 | 0.67 | < 0.5 | 2 | 64 | 40 | 1.48 | < 10 | < 1 | 0.25 | < 10 | 0.05 | 155 |
| M706264 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 60 | < 0.5 | < 2 | 0.54 | < 0.5 | 1 | 99 | 11 | 1.26 | < 10 | 1 | 0.26 | < 10 | 0.11 | 155 |
| M706265 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.51 | < 0.5 | 1 | 116 | 3 | 1.56 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 150 |
| M706266 | 205 | 294 | < 5 | < 0.2 | 0.40 | < 2 | 50 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 85 | 2 | 1.74 | < 10 | < 1 | 0.25 | < 10 | 0.07 | 85 |
| M706267 | 205 | 294 | < 5 | < 0.2 | 0.77 | 2 | 90 | < 0.5 | < 2 | 0.97 | < 0.5 | 2 | 76 | 8 | 2.75 | < 10 | < 1 | 0.23 | < 10 | 0.14 | 160 |
| M706268 | 205 | 294 | < 5 | < 0.2 | 1.06 | < 2 | 220 | 0.5 | < 2 | 1.35 | < 0.5 | 2 | 99 | 10 | 1.42 | < 10 | < 1 | 0.23 | 10 | 0.19 | 225 |
| M706269 | 205 | 294 | < 5 | < 0.2 | 0.43 | 2 | 50 | < 0.5 | < 2 | 0.70 | < 0.5 | 1 | 82 | 18 | 1.71 | < 10 | < 1 | 0.27 | < 10 | 0.08 | 180 |
| M706270 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 60 | < 0.5 | < 2 | 0.42 | < 0.5 | 1 | 104 | 35 | 2.20 | < 10 | < 1 | 0.31 | < 10 | 0.10 | 125 |
| M706271 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 1.08 | < 0.5 | 3 | 125 | 8 | 1.58 | < 10 | < 1 | 0.34 | < 10 | 0.16 | 210 |
| M706272 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.50 | < 0.5 | 2 | 83 | 4 | 1.29 | < 10 | < 1 | 0.28 | < 10 | 0.16 | 170 |
| M706273 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 60 | < 0.5 | < 2 | 0.87 | < 0.5 | 1 | 88 | 116 | 1.58 | < 10 | < 1 | 0.28 | < 10 | 0.12 | 190 |
| M706274 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 50 | < 0.5 | < 2 | 0.51 | < 0.5 | < 1 | 117 | 32 | 1.19 | < 10 | < 1 | 0.24 | < 10 | 0.09 | 125 |
| M706275 | 205 | 294 | < 5 | < 0.2 | 2.26 | < 2 | 220 | 1.0 | < 2 | 1.15 | < 0.5 | 1 | 49 | 16 | 1.19 | < 10 | < 1 | 0.28 | 10 | 0.24 | 115 |
| M706276 | 205 | 294 | < 5 | < 0.2 | 0.51 | 2 | 110 | < 0.5 | < 2 | 0.64 | < 0.5 | 1 | 113 | 18 | 1.68 | < 10 | < 1 | 0.28 | < 10 | 0.08 | 95 |
| M706277 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 50 | < 0.5 | < 2 | 0.44 | < 0.5 | 1 | 120 | 10 | 2.06 | < 10 | < 1 | 0.29 | < 10 | 0.05 | 55 |
| M706278 | 205 | 294 | < 5 | < 0.2 | 0.44 | < 2 | 60 | < 0.5 | < 2 | 0.67 | < 0.5 | 2 | 83 | 9 | 1.58 | < 10 | < 1 | 0.25 | < 10 | 0.09 | 100 |
| M706279 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 80 | < 0.5 | < 2 | 0.38 | < 0.5 | 1 | 131 | 6 | 1.64 | < 10 | < 1 | 0.34 | < 10 | 0.13 | 110 |
| M706280 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 70 | < 0.5 | < 2 | 0.28 | < 0.5 | 1 | 93 | 3 | 2.14 | < 10 | < 1 | 0.28 | < 10 | 0.10 | 85 |

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

97-2

Page Number :3-B
 Total Pages :5
 Certificate Date: 27-OCT-97
 Invoice No. :19747430
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS A9747430

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706241 | 205 294 | 1 | 0.02 | 2 | 190 | 4 | < 2 | < 1 | 66 | < 0.01 | < 10 | < 10 | 4 | < 10 | 44 |
| M706242 | 205 294 | < 1 | 0.02 | 2 | 200 | 6 | < 2 | < 1 | 49 | < 0.01 | < 10 | < 10 | 5 | < 10 | 192 |
| M706243 | 205 294 | < 1 | 0.03 | 2 | 230 | 4 | < 2 | < 1 | 36 | < 0.01 | < 10 | < 10 | 7 | < 10 | 102 |
| M706244 | 205 294 | 33 | 0.03 | 2 | 160 | 6 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 6 | < 10 | 26 |
| M706245 | 205 294 | 34 | 0.03 | 2 | 160 | 2 | < 2 | < 1 | 17 | < 0.01 | < 10 | < 10 | 4 | < 10 | 16 |
| M706246 | 205 294 | 1 | 0.14 | 3 | 290 | 6 | < 2 | 3 | 66 | 0.03 | < 10 | < 10 | 25 | < 10 | 40 |
| M706247 | 205 294 | 1 | 0.11 | 4 | 300 | 4 | < 2 | 3 | 76 | 0.04 | < 10 | < 10 | 30 | < 10 | 42 |
| M706248 | 205 294 | 16 | 0.03 | 2 | 190 | 4 | < 2 | < 1 | 74 | < 0.01 | < 10 | < 10 | 4 | < 10 | 22 |
| M706249 | 205 294 | 25 | 0.03 | 3 | 170 | 6 | < 2 | < 1 | 77 | < 0.01 | < 10 | < 10 | 3 | < 10 | 48 |
| M706250 | 205 294 | 57 | 0.01 | 2 | 170 | 2 | < 2 | < 1 | 24 | < 0.01 | < 10 | < 10 | 3 | < 10 | 42 |
| M706251 | 205 294 | 9 | 0.05 | 2 | 210 | 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 10 | < 10 | 36 |
| M706252 | 205 294 | 4 | 0.08 | 2 | 240 | 6 | < 2 | 1 | 60 | < 0.01 | < 10 | < 10 | 13 | < 10 | 296 |
| M706253 | 205 294 | 7 | 0.01 | 1 | 190 | 2 | < 2 | < 1 | 32 | < 0.01 | < 10 | < 10 | 4 | < 10 | 256 |
| M706254 | 205 294 | 13 | 0.02 | 2 | 180 | 4 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 4 | < 10 | 108 |
| M706255 | 205 294 | 9 | 0.03 | 3 | 190 | 6 | < 2 | < 1 | 44 | < 0.01 | < 10 | < 10 | 4 | < 10 | 66 |
| M706256 | 205 294 | 3 | 0.04 | 3 | 200 | 2 | < 2 | < 1 | 50 | < 0.01 | < 10 | < 10 | 6 | < 10 | 46 |
| M706257 | 205 294 | 4 | 0.03 | 3 | 180 | 2 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 6 | < 10 | 36 |
| M706258 | 205 294 | 16 | 0.03 | 1 | 190 | 2 | < 2 | 1 | 36 | < 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706259 | 205 294 | 4 | 0.03 | 2 | 210 | < 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 6 | < 10 | 12 |
| M706260 | 205 294 | 2 | 0.03 | 2 | 180 | 2 | < 2 | < 1 | 55 | < 0.01 | < 10 | < 10 | 6 | < 10 | 20 |
| M706261 | 205 294 | 6 | 0.03 | 3 | 200 | 2 | < 2 | < 1 | 49 | < 0.01 | < 10 | < 10 | 5 | < 10 | 30 |
| M706262 | 205 294 | 3 | 0.03 | 2 | 210 | 2 | < 2 | < 1 | 67 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706263 | 205 294 | 3 | 0.02 | 1 | 200 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | < 10 | 4 | < 10 | 10 |
| M706264 | 205 294 | 1 | 0.03 | 2 | 170 | 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706265 | 205 294 | 1 | 0.04 | 2 | 200 | < 2 | < 2 | 1 | 29 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706266 | 205 294 | 4 | 0.02 | 1 | 200 | 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 4 | < 10 | 10 |
| M706267 | 205 294 | 8 | 0.26 | 3 | 210 | 6 | < 2 | < 1 | 652 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706268 | 205 294 | 6 | 0.31 | 2 | 210 | 6 | < 2 | 1 | 1030 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706269 | 205 294 | 8 | 0.03 | 2 | 200 | 2 | < 2 | < 1 | 60 | < 0.01 | < 10 | < 10 | 5 | < 10 | 18 |
| M706270 | 205 294 | 1 | 0.03 | 2 | 200 | < 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706271 | 205 294 | 2 | 0.04 | 2 | 220 | 2 | < 2 | 1 | 59 | < 0.01 | < 10 | < 10 | 9 | < 10 | 20 |
| M706272 | 205 294 | < 1 | 0.04 | 1 | 230 | < 2 | < 2 | 1 | 37 | < 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706273 | 205 294 | 9 | 0.03 | 2 | 200 | 2 | < 2 | 1 | 59 | < 0.01 | < 10 | < 10 | 6 | < 10 | 22 |
| M706274 | 205 294 | 2 | 0.04 | 1 | 150 | 2 | < 2 | 1 | 50 | < 0.01 | < 10 | < 10 | 5 | < 10 | 18 |
| M706275 | 205 294 | 1 | 0.42 | 1 | 210 | 4 | < 2 | 1 | 2760 | < 0.01 | < 10 | < 10 | 8 | < 10 | 26 |
| M706276 | 205 294 | 17 | 0.04 | 2 | 190 | 2 | < 2 | < 1 | 112 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706277 | 205 294 | 8 | 0.02 | 3 | 190 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | < 10 | 4 | < 10 | 8 |
| M706278 | 205 294 | 10 | 0.03 | 1 | 180 | < 2 | < 2 | 1 | 35 | < 0.01 | < 10 | < 10 | 6 | < 10 | 12 |
| M706279 | 205 294 | < 1 | 0.04 | 2 | 200 | < 2 | < 2 | 1 | 22 | 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706280 | 205 294 | 5 | 0.02 | 2 | 220 | 2 | < 2 | 1 | 15 | < 0.01 | < 10 | < 10 | 7 | < 10 | 12 |

CERTIFICATION:

[Handwritten Signature]



Chemex Labs Ltd.

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :4-A
 Total Pages :5
 Certificate Date: 27-OCT-97
 Invoice No. :19747430
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS A9747430

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706281 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 60 | < 0.5 | < 2 | 0.38 | < 0.5 | 2 | 99 | 3 | 2.33 | < 10 | < 1 | 0.25 | < 10 | 0.07 | 80 |
| M706282 | 205 | 294 | < 5 | < 0.2 | 0.36 | < 2 | 60 | < 0.5 | < 2 | 0.68 | < 0.5 | 1 | 94 | 6 | 1.61 | < 10 | < 1 | 0.23 | < 10 | 0.08 | 155 |
| M706283 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 80 | < 0.5 | < 2 | 0.50 | < 0.5 | 1 | 119 | 4 | 1.64 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 115 |
| M706284 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 70 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 107 | 9 | 2.23 | < 10 | < 1 | 0.32 | < 10 | 0.11 | 120 |
| M706285 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 60 | < 0.5 | < 2 | 1.40 | < 0.5 | 2 | 98 | 9 | 2.53 | < 10 | < 1 | 0.38 | < 10 | 0.06 | 435 |
| M706286 | 205 | 294 | < 5 | < 0.2 | 1.01 | < 2 | 90 | < 0.5 | 2 | 0.55 | < 0.5 | 1 | 130 | 19 | 2.39 | < 10 | < 1 | 0.58 | < 10 | 0.06 | 125 |
| M706287 | 205 | 294 | < 5 | < 0.2 | 0.97 | < 2 | 90 | < 0.5 | 2 | 1.25 | < 0.5 | 2 | 128 | 17 | 2.09 | < 10 | < 1 | 0.53 | < 10 | 0.11 | 180 |
| M706288 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.51 | < 0.5 | 1 | 80 | 2 | 1.62 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 160 |
| M706289 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 80 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 130 | 12 | 1.94 | < 10 | < 1 | 0.35 | < 10 | 0.12 | 130 |
| M706290 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 60 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 102 | 3 | 2.36 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 80 |
| M706291 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 60 | < 0.5 | < 2 | 0.90 | < 0.5 | 1 | 97 | 15 | 1.55 | < 10 | < 1 | 0.33 | < 10 | 0.04 | 300 |
| M706292 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 113 | 6 | 1.07 | < 10 | < 1 | 0.29 | < 10 | 0.24 | 275 |
| M706293 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 110 | < 0.5 | < 2 | 0.48 | < 0.5 | 2 | 109 | 4 | 1.27 | < 10 | < 1 | 0.28 | < 10 | 0.26 | 275 |
| M706294 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 190 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 92 | 6 | 1.25 | < 10 | < 1 | 0.24 | < 10 | 0.22 | 285 |
| M706295 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 90 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 91 | 5 | 1.24 | < 10 | < 1 | 0.24 | < 10 | 0.20 | 240 |
| M706296 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 77 | 6 | 1.53 | < 10 | < 1 | 0.27 | < 10 | 0.22 | 220 |
| M706297 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 68 | 4 | 1.24 | < 10 | < 1 | 0.23 | < 10 | 0.23 | 240 |
| M706298 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 110 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 98 | 7 | 0.98 | < 10 | < 1 | 0.25 | < 10 | 0.23 | 245 |
| M706299 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 2 | 90 | 18 | 1.20 | < 10 | < 1 | 0.26 | < 10 | 0.25 | 260 |
| M706300 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 130 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 94 | 4 | 1.19 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 290 |
| M706301 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 108 | 9 | 1.03 | < 10 | < 1 | 0.27 | < 10 | 0.15 | 310 |
| M706302 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 80 | < 0.5 | < 2 | 0.66 | < 0.5 | 1 | 95 | 6 | 1.05 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 310 |
| M706303 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 50 | < 0.5 | < 2 | 1.32 | < 0.5 | 1 | 59 | 39 | 1.07 | < 10 | < 1 | 0.22 | < 10 | 0.16 | 595 |
| M706304 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 100 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 119 | 22 | 1.27 | < 10 | < 1 | 0.31 | < 10 | 0.29 | 260 |
| M706305 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 120 | < 0.5 | < 2 | 0.47 | < 0.5 | 3 | 118 | 10 | 1.23 | < 10 | < 1 | 0.30 | < 10 | 0.32 | 270 |
| M706306 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 110 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 81 | 8 | 1.35 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706307 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 87 | 7 | 1.28 | < 10 | < 1 | 0.29 | < 10 | 0.34 | 265 |
| M706308 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 130 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 66 | 7 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706309 | 205 | 294 | < 5 | < 0.2 | 0.37 | < 2 | 50 | < 0.5 | < 2 | 0.26 | < 0.5 | 1 | 107 | 3 | 0.92 | < 10 | < 1 | 0.21 | < 10 | 0.12 | 190 |
| M706310 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 100 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 60 | 9 | 1.34 | < 10 | < 1 | 0.24 | < 10 | 0.31 | 240 |
| M706311 | 205 | 294 | < 5 | < 0.2 | 0.77 | < 2 | 80 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 87 | 110 | 1.63 | < 10 | < 1 | 0.30 | < 10 | 0.25 | 245 |
| M706312 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 96 | 6 | 1.26 | < 10 | < 1 | 0.31 | < 10 | 0.34 | 285 |
| M706313 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 130 | < 0.5 | < 2 | 0.53 | < 0.5 | 3 | 100 | 30 | 1.59 | < 10 | < 1 | 0.36 | < 10 | 0.31 | 250 |
| M706314 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 110 | < 0.5 | < 2 | 0.59 | < 0.5 | 2 | 92 | 6 | 1.35 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 220 |
| M706315 | 205 | 294 | < 5 | < 0.2 | 0.81 | < 2 | 120 | < 0.5 | < 2 | 0.68 | < 0.5 | 2 | 125 | 12 | 1.30 | < 10 | < 1 | 0.34 | < 10 | 0.30 | 250 |
| M706316 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 100 | < 0.5 | < 2 | 0.66 | < 0.5 | 3 | 99 | 17 | 1.33 | < 10 | < 1 | 0.27 | < 10 | 0.31 | 280 |
| M706317 | 205 | 294 | < 5 | 0.6 | 1.24 | < 2 | 70 | < 0.5 | 2 | 1.36 | < 0.5 | 5 | 54 | 668 | 4.31 | < 10 | < 1 | 0.52 | < 10 | 0.36 | 520 |
| M706318 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 1.65 | < 0.5 | 1 | 112 | 3 | 0.93 | < 10 | 1 | 0.33 | < 10 | 0.05 | 1015 |
| M706319 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 50 | < 0.5 | < 2 | 1.60 | < 0.5 | 1 | 110 | 28 | 1.28 | < 10 | < 1 | 0.35 | < 10 | 0.06 | 1070 |
| M706320 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 90 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 72 | 13 | 1.29 | < 10 | < 1 | 0.25 | < 10 | 0.30 | 355 |

97-3

97-3

CERTIFICATION:



Chemex Labs Ltd.

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To: ALMADEN RESOURCES CORP.

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Page Number : 4-B
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 P.O. Number :
 Account : PFM

Project : MUNRO
 Comments : ATTN:LEO KING/MORGAN POLIQUIN

CERTIFICATE OF ANALYSIS A9747430

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706281 | 205 294 | 4 | 0.02 | 3 | 180 | 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706282 | 205 294 | 1 | 0.03 | 2 | 200 | 4 | < 2 | < 1 | 52 | < 0.01 | < 10 | < 10 | 5 | < 10 | 20 |
| M706283 | 205 294 | 5 | 0.04 | 2 | 210 | 2 | < 2 | 1 | 36 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706284 | 205 294 | 10 | 0.03 | 2 | 210 | < 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 7 | < 10 | 12 |
| M706285 | 205 294 | 11 | 0.01 | 2 | 200 | 2 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 4 | < 10 | 10 |
| M706286 | 205 294 | 17 | 0.03 | 3 | 190 | 2 | < 2 | < 1 | 17 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706287 | 205 294 | 5 | 0.03 | 3 | 190 | 2 | < 2 | 1 | 41 | 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706288 | 205 294 | 1 | 0.03 | 1 | 180 | 2 | < 2 | 1 | 25 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706289 | 205 294 | 10 | 0.04 | 3 | 210 | 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706290 | 205 294 | 10 | 0.02 | 2 | 190 | 2 | < 2 | < 1 | 20 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
| M706291 | 205 294 | 2 | 0.03 | 1 | 200 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | < 10 | 4 | < 10 | 18 |
| M706292 | 205 294 | < 1 | 0.06 | 3 | 220 | 2 | < 2 | 2 | 42 | 0.03 | < 10 | < 10 | 15 | < 10 | 34 |
| M706293 | 205 294 | 84 | 0.05 | 3 | 250 | 2 | < 2 | 2 | 47 | 0.01 | < 10 | < 10 | 16 | < 10 | 34 |
| M706294 | 205 294 | < 1 | 0.04 | 2 | 250 | 2 | < 2 | 1 | 92 | < 0.01 | < 10 | < 10 | 13 | < 10 | 34 |
| M706295 | 205 294 | < 1 | 0.04 | 2 | 230 | 2 | < 2 | 1 | 74 | < 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
| M706296 | 205 294 | < 1 | 0.04 | 2 | 250 | < 2 | < 2 | 1 | 42 | 0.02 | < 10 | < 10 | 13 | < 10 | 54 |
| M706297 | 205 294 | < 1 | 0.04 | 1 | 240 | 2 | < 2 | 1 | 56 | 0.01 | < 10 | < 10 | 12 | < 10 | 32 |
| M706298 | 205 294 | < 1 | 0.06 | 1 | 220 | 2 | < 2 | 1 | 47 | 0.03 | < 10 | < 10 | 14 | < 10 | 36 |
| M706299 | 205 294 | < 1 | 0.05 | 1 | 260 | 2 | < 2 | 1 | 53 | 0.01 | < 10 | < 10 | 15 | < 10 | 52 |
| M706300 | 205 294 | < 1 | 0.06 | 2 | 250 | 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 18 | < 10 | 42 |
| M706301 | 205 294 | 9 | 0.04 | 2 | 190 | 2 | < 2 | 1 | 65 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706302 | 205 294 | < 1 | 0.04 | 1 | 220 | < 2 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706303 | 205 294 | < 1 | 0.03 | 1 | 250 | 2 | < 2 | 1 | 91 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706304 | 205 294 | < 1 | 0.07 | 2 | 280 | 2 | < 2 | 1 | 42 | 0.02 | < 10 | < 10 | 18 | < 10 | 42 |
| M706305 | 205 294 | < 1 | 0.07 | 3 | 280 | < 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 20 | < 10 | 48 |
| M706306 | 205 294 | 1 | 0.05 | 2 | 300 | < 2 | < 2 | 1 | 46 | 0.04 | < 10 | < 10 | 19 | < 10 | 40 |
| M706307 | 205 294 | < 1 | 0.05 | 2 | 300 | 2 | < 2 | 2 | 30 | 0.07 | < 10 | < 10 | 22 | < 10 | 40 |
| M706308 | 205 294 | < 1 | 0.04 | 1 | 300 | 2 | < 2 | 1 | 34 | 0.06 | < 10 | < 10 | 20 | < 10 | 44 |
| M706309 | 205 294 | < 1 | 0.06 | 1 | 110 | 4 | < 2 | 1 | 16 | 0.02 | < 10 | < 10 | 8 | < 10 | 34 |
| M706310 | 205 294 | < 1 | 0.04 | 2 | 290 | < 2 | < 2 | 1 | 22 | 0.07 | < 10 | < 10 | 21 | < 10 | 42 |
| M706311 | 205 294 | 3 | 0.06 | 2 | 310 | 2 | < 2 | 1 | 32 | 0.04 | < 10 | < 10 | 15 | < 10 | 56 |
| M706312 | 205 294 | < 1 | 0.06 | 2 | 290 | < 2 | < 2 | 2 | 30 | 0.08 | < 10 | < 10 | 22 | < 10 | 40 |
| M706313 | 205 294 | < 1 | 0.06 | 4 | 300 | 2 | < 2 | 1 | 34 | 0.05 | < 10 | < 10 | 20 | < 10 | 54 |
| M706314 | 205 294 | 2 | 0.05 | 1 | 290 | 2 | < 2 | 1 | 43 | 0.03 | < 10 | < 10 | 18 | < 10 | 38 |
| M706315 | 205 294 | < 1 | 0.07 | 3 | 290 | < 2 | < 2 | 1 | 64 | 0.01 | < 10 | < 10 | 18 | < 10 | 44 |
| M706316 | 205 294 | < 1 | 0.05 | 2 | 310 | < 2 | < 2 | 1 | 60 | 0.02 | < 10 | < 10 | 19 | < 10 | 70 |
| M706317 | 205 294 | 2 | 0.05 | 4 | 340 | < 2 | < 2 | < 1 | 76 | 0.01 | < 10 | < 10 | 14 | < 10 | 80 |
| M706318 | 205 294 | 2 | 0.01 | 3 | 190 | 2 | < 2 | < 1 | 57 | < 0.01 | < 10 | < 10 | 3 | < 10 | 14 |
| M706319 | 205 294 | 3 | 0.01 | 1 | 190 | 2 | < 2 | < 1 | 85 | < 0.01 | < 10 | < 10 | 4 | < 10 | 14 |
| M706320 | 205 294 | < 1 | 0.04 | 1 | 230 | 2 | < 2 | 2 | 31 | 0.05 | < 10 | < 10 | 20 | < 10 | 48 |

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97-3

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
V7Y 1B6

Project: MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

97-3

Page Number :4-A
Total Pages :5
Certificate Date: 27-OCT-97
Invoice No. :19747430
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS A9747430

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| M706281 | 205 294 | < 5 | < 0.2 | 0.39 | < 2 | 60 | < 0.5 | < 2 | 0.38 | < 0.5 | 2 | 99 | 3 | 2.33 | < 10 | < 1 | 0.25 | < 10 | 0.07 | 80 |
| M706282 | 205 294 | < 5 | < 0.2 | 0.36 | < 2 | 60 | 0.5 | < 2 | 0.68 | < 0.5 | 1 | 94 | 6 | 1.61 | < 10 | < 1 | 0.23 | < 10 | 0.08 | 155 |
| M706283 | 205 294 | < 5 | < 0.2 | 0.48 | < 2 | 80 | < 0.5 | < 2 | 0.50 | < 0.5 | 1 | 119 | 4 | 1.64 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 115 |
| M706284 | 205 294 | < 5 | < 0.2 | 0.52 | 2 | 70 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 107 | 9 | 2.23 | < 10 | < 1 | 0.32 | < 10 | 0.11 | 120 |
| M706285 | 205 294 | < 5 | < 0.2 | 0.71 | < 2 | 60 | 0.5 | < 2 | 1.40 | < 0.5 | 2 | 98 | 9 | 2.53 | < 10 | < 1 | 0.38 | < 10 | 0.06 | 435 |
| M706286 | 205 294 | < 5 | < 0.2 | 1.01 | < 2 | 90 | < 0.5 | 2 | 0.55 | < 0.5 | 1 | 130 | 19 | 2.39 | < 10 | < 1 | 0.58 | < 10 | 0.06 | 125 |
| M706287 | 205 294 | < 5 | 0.2 | 0.97 | < 2 | 90 | 0.5 | 2 | 1.25 | < 0.5 | 2 | 128 | 17 | 2.09 | < 10 | < 1 | 0.53 | < 10 | 0.11 | 180 |
| M706288 | 205 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.51 | < 0.5 | 1 | 80 | 2 | 1.62 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 160 |
| M706289 | 205 294 | < 5 | < 0.2 | 0.56 | 2 | 80 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 130 | 12 | 1.94 | < 10 | < 1 | 0.35 | < 10 | 0.12 | 130 |
| M706290 | 205 294 | < 5 | < 0.2 | 0.54 | < 2 | 60 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 102 | 3 | 2.36 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 80 |
| M706291 | 205 294 | < 5 | < 0.2 | 0.48 | < 2 | 60 | < 0.5 | < 2 | 0.90 | < 0.5 | 1 | 97 | 15 | 1.55 | < 10 | < 1 | 0.33 | < 10 | 0.04 | 300 |
| M706292 | 205 294 | < 5 | < 0.2 | 0.54 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 113 | 6 | 1.07 | < 10 | < 1 | 0.29 | < 10 | 0.24 | 275 |
| M706293 | 205 294 | < 5 | < 0.2 | 0.60 | 2 | 110 | < 0.5 | < 2 | 0.48 | < 0.5 | 2 | 109 | 4 | 1.27 | < 10 | < 1 | 0.28 | < 10 | 0.26 | 275 |
| M706294 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 190 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 92 | 6 | 1.25 | < 10 | < 1 | 0.24 | < 10 | 0.22 | 285 |
| M706295 | 205 294 | < 5 | < 0.2 | 0.52 | < 2 | 90 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 91 | 5 | 1.24 | < 10 | < 1 | 0.24 | < 10 | 0.20 | 240 |
| M706296 | 205 294 | < 5 | < 0.2 | 0.51 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 77 | 6 | 1.53 | < 10 | < 1 | 0.27 | < 10 | 0.22 | 220 |
| M706297 | 205 294 | < 5 | < 0.2 | 0.48 | 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 68 | 4 | 1.24 | < 10 | < 1 | 0.23 | < 10 | 0.23 | 240 |
| M706298 | 205 294 | < 5 | < 0.2 | 0.51 | < 2 | 110 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 98 | 7 | 0.98 | < 10 | < 1 | 0.25 | < 10 | 0.23 | 245 |
| M706299 | 205 294 | < 5 | < 0.2 | 0.59 | < 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 2 | 90 | 18 | 1.20 | < 10 | < 1 | 0.26 | < 10 | 0.25 | 260 |
| M706300 | 205 294 | < 5 | < 0.2 | 0.61 | < 2 | 130 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 94 | 4 | 1.19 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 290 |
| M706301 | 205 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 108 | 9 | 1.03 | < 10 | < 1 | 0.27 | < 10 | 0.15 | 310 |
| M706302 | 205 294 | < 5 | < 0.2 | 0.54 | < 2 | 80 | < 0.5 | < 2 | 0.66 | < 0.5 | 1 | 95 | 6 | 1.05 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 310 |
| M706303 | 205 294 | < 5 | < 0.2 | 0.50 | < 2 | 50 | < 0.5 | < 2 | 1.32 | < 0.5 | 1 | 59 | 39 | 1.07 | < 10 | < 1 | 0.22 | < 10 | 0.16 | 595 |
| M706304 | 205 294 | < 5 | < 0.2 | 0.71 | < 2 | 100 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 119 | 22 | 1.27 | < 10 | < 1 | 0.31 | < 10 | 0.29 | 260 |
| M706305 | 205 294 | < 5 | < 0.2 | 0.64 | < 2 | 120 | < 0.5 | < 2 | 0.47 | < 0.5 | 3 | 118 | 10 | 1.23 | < 10 | < 1 | 0.30 | < 10 | 0.32 | 270 |
| M706306 | 205 294 | < 5 | < 0.2 | 0.61 | < 2 | 110 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 81 | 8 | 1.35 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706307 | 205 294 | < 5 | < 0.2 | 0.60 | < 2 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 87 | 7 | 1.28 | < 10 | < 1 | 0.29 | < 10 | 0.34 | 265 |
| M706308 | 205 294 | < 5 | < 0.2 | 0.60 | < 2 | 130 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 66 | 7 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706309 | 205 294 | < 5 | < 0.2 | 0.37 | 2 | 50 | < 0.5 | < 2 | 0.26 | < 0.5 | 1 | 107 | 3 | 0.92 | < 10 | < 1 | 0.21 | < 10 | 0.12 | 190 |
| M706310 | 205 294 | < 5 | < 0.2 | 0.55 | < 2 | 100 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 60 | 9 | 1.34 | < 10 | < 1 | 0.24 | < 10 | 0.31 | 240 |
| M706311 | 205 294 | < 5 | < 0.2 | 0.77 | < 2 | 80 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 87 | 110 | 1.63 | < 10 | < 1 | 0.30 | < 10 | 0.25 | 245 |
| M706312 | 205 294 | < 5 | < 0.2 | 0.61 | 4 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 96 | 6 | 1.26 | < 10 | < 1 | 0.31 | < 10 | 0.34 | 285 |
| M706313 | 205 294 | < 5 | < 0.2 | 0.71 | 2 | 130 | < 0.5 | < 2 | 0.53 | < 0.5 | 3 | 100 | 30 | 1.59 | < 10 | < 1 | 0.36 | < 10 | 0.31 | 250 |
| M706314 | 205 294 | < 5 | < 0.2 | 0.66 | < 2 | 110 | < 0.5 | < 2 | 0.59 | < 0.5 | 2 | 92 | 6 | 1.35 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 220 |
| M706315 | 205 294 | < 5 | < 0.2 | 0.81 | < 2 | 120 | < 0.5 | < 2 | 0.68 | < 0.5 | 2 | 125 | 12 | 1.30 | < 10 | < 1 | 0.34 | < 10 | 0.30 | 250 |
| M706316 | 205 294 | < 5 | < 0.2 | 0.66 | < 2 | 100 | < 0.5 | < 2 | 0.66 | < 0.5 | 3 | 99 | 17 | 1.33 | < 10 | < 1 | 0.27 | < 10 | 0.31 | 280 |
| M706317 | 205 294 | < 5 | 0.6 | 1.24 | 4 | 70 | 0.5 | 2 | 1.36 | < 0.5 | 5 | 54 | 668 | 4.31 | < 10 | < 1 | 0.52 | < 10 | 0.36 | 520 |
| M706318 | 205 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 1.65 | < 0.5 | 1 | 112 | 3 | 0.93 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 1015 |
| M706319 | 205 294 | < 5 | < 0.2 | 0.57 | 2 | 50 | 0.5 | < 2 | 1.60 | < 0.5 | 1 | 110 | 28 | 1.28 | < 10 | < 1 | 0.35 | < 10 | 0.06 | 1070 |
| M706320 | 205 294 | < 5 | < 0.2 | 0.55 | 2 | 90 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 72 | 13 | 1.29 | < 10 | < 1 | 0.25 | < 10 | 0.30 | 355 |

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CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ALMADEN RESOURCES CORP.

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V7Y 1B6

Project: MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

97-3

Page Number :4-B
Total Pages :5
Certificate Date: 27-OCT-97
Invoice No. : I9747430
P.O. Number :
Account : PFM

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706281 | 205 294 | 4 | 0.02 | 3 | 180 | 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706282 | 205 294 | 1 | 0.03 | 2 | 200 | 4 | < 2 | < 1 | 52 | < 0.01 | < 10 | < 10 | 5 | < 10 | 20 |
| M706283 | 205 294 | 5 | 0.04 | 2 | 210 | 2 | < 2 | 1 | 36 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706284 | 205 294 | 10 | 0.03 | 2 | 210 | < 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 7 | < 10 | 12 |
| M706285 | 205 294 | 11 | 0.01 | 2 | 200 | 2 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 4 | < 10 | 10 |
| M706286 | 205 294 | 17 | 0.03 | 3 | 190 | 2 | < 2 | < 1 | 17 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706287 | 205 294 | 5 | 0.03 | 3 | 190 | 2 | < 2 | 1 | 41 | 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706288 | 205 294 | 1 | 0.03 | 1 | 180 | 2 | < 2 | 1 | 25 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706289 | 205 294 | 10 | 0.04 | 3 | 210 | 2 | < 2 | 1 | 30 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706290 | 205 294 | 10 | 0.02 | 2 | 190 | 2 | < 2 | < 1 | 20 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
| M706291 | 205 294 | 2 | 0.03 | 1 | 200 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | < 10 | 4 | < 10 | 18 |
| M706292 | 205 294 | < 1 | 0.06 | 3 | 220 | 2 | < 2 | 2 | 42 | 0.03 | < 10 | < 10 | 15 | < 10 | 34 |
| M706293 | 205 294 | 84 | 0.05 | 3 | 250 | 2 | < 2 | 2 | 47 | 0.01 | < 10 | < 10 | 16 | < 10 | 34 |
| M706294 | 205 294 | < 1 | 0.04 | 2 | 250 | 2 | < 2 | 1 | 92 | < 0.01 | < 10 | < 10 | 13 | < 10 | 34 |
| M706295 | 205 294 | < 1 | 0.04 | 2 | 230 | 2 | < 2 | 1 | 74 | < 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
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| M706300 | 205 294 | < 1 | 0.06 | 2 | 250 | 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 18 | < 10 | 42 |
| M706301 | 205 294 | 9 | 0.04 | 2 | 190 | 2 | < 2 | 1 | 65 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706302 | 205 294 | < 1 | 0.04 | 1 | 220 | < 2 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706303 | 205 294 | < 1 | 0.03 | 1 | 250 | 2 | < 2 | 1 | 91 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706304 | 205 294 | < 1 | 0.07 | 2 | 280 | 2 | < 2 | 1 | 42 | 0.02 | < 10 | < 10 | 19 | < 10 | 42 |
| M706305 | 205 294 | < 1 | 0.07 | 3 | 280 | < 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 20 | < 10 | 48 |
| M706306 | 205 294 | 1 | 0.05 | 2 | 300 | < 2 | < 2 | 1 | 46 | 0.04 | < 10 | < 10 | 19 | < 10 | 40 |
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| M706310 | 205 294 | < 1 | 0.04 | 2 | 290 | < 2 | < 2 | 1 | 22 | 0.07 | < 10 | < 10 | 21 | < 10 | 42 |
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| M706316 | 205 294 | < 1 | 0.05 | 2 | 310 | < 2 | < 2 | 1 | 60 | 0.02 | < 10 | < 10 | 19 | < 10 | 70 |
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| M706319 | 205 294 | 3 | 0.01 | 1 | 190 | 2 | < 2 | < 1 | 85 | < 0.01 | < 10 | < 10 | 4 | < 10 | 14 |
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97-3

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97-4

CERTIFICATION:



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Analytical Chemists * Geochemists * Registered Assayers

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Project: MUNRO
Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number : 4-A
Total Pages : 5
Certificate Date: 27-OCT-97
Invoice No. : 19747430
P.O. Number :
Account : PFM

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706281 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 60 | < 0.5 | < 2 | 0.38 | < 0.5 | 2 | 99 | 3 | 2.33 | < 10 | < 1 | 0.25 | < 10 | 0.07 | 80 |
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| M706284 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 70 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 107 | 9 | 2.23 | < 10 | < 1 | 0.32 | < 10 | 0.11 | 120 |
| M706285 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 60 | 0.5 | < 2 | 1.40 | < 0.5 | 2 | 98 | 9 | 2.53 | < 10 | < 1 | 0.38 | < 10 | 0.06 | 435 |
| M706286 | 205 | 294 | < 5 | < 0.2 | 1.01 | < 2 | 90 | < 0.5 | 2 | 0.55 | < 0.5 | 1 | 130 | 19 | 2.39 | < 10 | < 1 | 0.58 | < 10 | 0.06 | 125 |
| M706287 | 205 | 294 | < 5 | < 0.2 | 0.97 | < 2 | 90 | 0.5 | 2 | 1.25 | < 0.5 | 2 | 128 | 17 | 2.09 | < 10 | < 1 | 0.53 | < 10 | 0.11 | 180 |
| M706288 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.51 | < 0.5 | 1 | 80 | 2 | 1.62 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 160 |
| M706289 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 80 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 130 | 12 | 1.94 | < 10 | < 1 | 0.35 | < 10 | 0.12 | 130 |
| M706290 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 60 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 102 | 3 | 2.36 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 80 |
| M706291 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 60 | < 0.5 | < 2 | 0.90 | < 0.5 | 1 | 97 | 15 | 1.55 | < 10 | < 1 | 0.33 | < 10 | 0.04 | 300 |
| M706292 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 113 | 6 | 1.07 | < 10 | < 1 | 0.29 | < 10 | 0.24 | 275 |
| M706293 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 110 | < 0.5 | < 2 | 0.48 | < 0.5 | 2 | 109 | 4 | 1.27 | < 10 | < 1 | 0.28 | < 10 | 0.26 | 275 |
| M706294 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 190 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 92 | 6 | 1.25 | < 10 | < 1 | 0.24 | < 10 | 0.22 | 285 |
| M706295 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 90 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 91 | 5 | 1.24 | < 10 | < 1 | 0.24 | < 10 | 0.30 | 240 |
| M706296 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 120 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 77 | 6 | 1.53 | < 10 | < 1 | 0.27 | < 10 | 0.22 | 220 |
| M706297 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 68 | 4 | 1.24 | < 10 | < 1 | 0.23 | < 10 | 0.23 | 240 |
| M706298 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 110 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 98 | 7 | 0.98 | < 10 | < 1 | 0.25 | < 10 | 0.23 | 245 |
| M706299 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 100 | < 0.5 | < 2 | 0.56 | < 0.5 | 2 | 90 | 18 | 1.20 | < 10 | < 1 | 0.26 | < 10 | 0.25 | 260 |
| M706300 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 130 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 94 | 4 | 1.19 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 290 |
| M706301 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 108 | 9 | 1.03 | < 10 | < 1 | 0.27 | < 10 | 0.15 | 310 |
| M706302 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 80 | < 0.5 | < 2 | 0.66 | < 0.5 | 1 | 95 | 6 | 1.05 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 310 |
| M706303 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 50 | < 0.5 | < 2 | 1.32 | < 0.5 | 1 | 59 | 39 | 1.07 | < 10 | < 1 | 0.22 | < 10 | 0.16 | 595 |
| M706304 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 100 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 119 | 22 | 1.27 | < 10 | < 1 | 0.31 | < 10 | 0.29 | 260 |
| M706305 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 120 | < 0.5 | < 2 | 0.47 | < 0.5 | 3 | 118 | 10 | 1.23 | < 10 | < 1 | 0.30 | < 10 | 0.32 | 270 |
| M706306 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 110 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 81 | 8 | 1.35 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706307 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 87 | 7 | 1.28 | < 10 | < 1 | 0.29 | < 10 | 0.34 | 265 |
| M706308 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 130 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 66 | 7 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.32 | 265 |
| M706309 | 205 | 294 | < 5 | < 0.2 | 0.37 | < 2 | 50 | < 0.5 | < 2 | 0.26 | < 0.5 | 1 | 107 | 3 | 0.92 | < 10 | < 1 | 0.21 | < 10 | 0.12 | 190 |
| M706310 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 100 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 60 | 9 | 1.34 | < 10 | < 1 | 0.24 | < 10 | 0.31 | 240 |
| M706311 | 205 | 294 | < 5 | < 0.2 | 0.77 | < 2 | 80 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 87 | 110 | 1.63 | < 10 | < 1 | 0.30 | < 10 | 0.25 | 245 |
| M706312 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 140 | < 0.5 | < 2 | 0.41 | < 0.5 | 3 | 96 | 6 | 1.26 | < 10 | < 1 | 0.31 | < 10 | 0.34 | 285 |
| M706313 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 130 | < 0.5 | < 2 | 0.53 | < 0.5 | 3 | 100 | 30 | 1.59 | < 10 | < 1 | 0.36 | < 10 | 0.31 | 250 |
| M706314 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 110 | < 0.5 | < 2 | 0.59 | < 0.5 | 2 | 92 | 6 | 1.35 | < 10 | < 1 | 0.31 | < 10 | 0.28 | 220 |
| M706315 | 205 | 294 | < 5 | < 0.2 | 0.81 | < 2 | 120 | < 0.5 | < 2 | 0.68 | < 0.5 | 2 | 125 | 12 | 1.30 | < 10 | < 1 | 0.34 | < 10 | 0.30 | 250 |
| M706316 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 100 | < 0.5 | < 2 | 0.66 | < 0.5 | 3 | 99 | 17 | 1.33 | < 10 | < 1 | 0.27 | < 10 | 0.31 | 280 |
| M706317 | 205 | 294 | < 5 | 0.6 | 1.24 | < 2 | 70 | 0.5 | 2 | 1.36 | < 0.5 | 5 | 54 | 668 | 4.31 | < 10 | < 1 | 0.52 | < 10 | 0.36 | 520 |
| M706318 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 1.65 | < 0.5 | 1 | 112 | 3 | 0.93 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 1015 |
| M706319 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 50 | 0.5 | < 2 | 1.60 | < 0.5 | 1 | 110 | 28 | 1.28 | < 10 | < 1 | 0.35 | < 10 | 0.06 | 1070 |
| M706320 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 90 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 72 | 13 | 1.29 | < 10 | < 1 | 0.25 | < 10 | 0.30 | 355 |

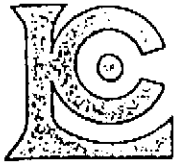
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97-4

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

Page Number :4-B
 Total Pages :5
 Certificate Date:27-OCT-97
 Invoice No. :19747430
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
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| M706281 | 205 | 294 | 4 | 0.02 | 3 | 180 | 2 | < 2 | < 1 | 22 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706282 | 205 | 294 | 1 | 0.03 | 2 | 200 | 4 | < 2 | < 1 | 52 | < 0.01 | < 10 | < 10 | 5 | < 10 | 20 |
| M706283 | 205 | 294 | 5 | 0.04 | 2 | 210 | 2 | < 2 | 1 | 36 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
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| M706286 | 205 | 294 | 17 | 0.03 | 3 | 190 | 2 | < 2 | < 1 | 17 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706287 | 205 | 294 | 5 | 0.03 | 3 | 190 | 2 | < 2 | 1 | 41 | 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706288 | 205 | 294 | 1 | 0.03 | 1 | 180 | 2 | < 2 | 1 | 25 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
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| M706290 | 205 | 294 | 10 | 0.02 | 2 | 190 | 2 | < 2 | < 1 | 20 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
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| M706298 | 205 | 294 | < 1 | 0.06 | 1 | 220 | 2 | < 2 | 1 | 47 | 0.03 | < 10 | < 10 | 14 | < 10 | 36 |
| M706299 | 205 | 294 | < 1 | 0.05 | 1 | 260 | 2 | < 2 | 1 | 53 | 0.01 | < 10 | < 10 | 15 | < 10 | 52 |
| M706300 | 205 | 294 | < 1 | 0.06 | 2 | 250 | 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 18 | < 10 | 42 |
| M706301 | 205 | 294 | 9 | 0.04 | 2 | 190 | 2 | < 2 | 1 | 65 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706302 | 205 | 294 | < 1 | 0.04 | 1 | 220 | < 2 | < 2 | < 1 | 40 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706303 | 205 | 294 | < 1 | 0.03 | 1 | 250 | 2 | < 2 | 1 | 91 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706304 | 205 | 294 | < 1 | 0.07 | 2 | 280 | 2 | < 2 | 1 | 42 | 0.02 | < 10 | < 10 | 18 | < 10 | 42 |
| M706305 | 205 | 294 | < 1 | 0.07 | 3 | 280 | < 2 | < 2 | 2 | 37 | 0.04 | < 10 | < 10 | 20 | < 10 | 48 |
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| M706307 | 205 | 294 | < 1 | 0.05 | 2 | 300 | 2 | < 2 | 2 | 30 | 0.07 | < 10 | < 10 | 22 | < 10 | 40 |
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| M706309 | 205 | 294 | < 1 | 0.06 | 1 | 110 | 4 | < 2 | 1 | 16 | 0.02 | < 10 | < 10 | 8 | < 10 | 34 |
| M706310 | 205 | 294 | < 1 | 0.04 | 2 | 290 | < 2 | < 2 | 1 | 22 | 0.07 | < 10 | < 10 | 21 | < 10 | 42 |
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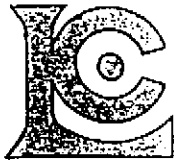
97-3

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CERTIFICATION: _____



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Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

97-4

Page Number : 6-A
 Total Pages : 5
 Certificate Date : 27-OCT-97
 Invoice No. : 19747430
 P.O. Number :
 Account : PFM

97-4

CERTIFICATE OF ANALYSIS A9747430

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| | | | FA+AA | | | | | | | | | | | | | | | | | | |
| M706321 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 70 | 0.5 | < 2 | 1.30 | < 0.5 | 1 | 112 | 3 | 1.04 | < 10 | < 1 | 0.33 | < 10 | 0.07 | 705 |
| M706322 | 205 | 294 | < 5 | < 0.2 | 0.42 | 6 | 80 | < 0.5 | < 2 | 0.78 | < 0.5 | 3 | 84 | 2 | 1.69 | < 10 | < 1 | 0.28 | < 10 | 0.06 | 310 |
| M706323 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 50 | < 0.5 | < 2 | 1.01 | < 0.5 | 1 | 89 | 2 | 1.30 | < 10 | < 1 | 0.26 | < 10 | 0.07 | 325 |
| M706324 | 205 | 294 | < 5 | < 0.2 | 0.46 | < 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 1 | 67 | 6 | 1.47 | < 10 | < 1 | 0.26 | < 10 | 0.11 | 190 |
| M706325 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 70 | < 0.5 | < 2 | 0.79 | < 0.5 | 2 | 81 | 6 | 1.05 | < 10 | < 1 | 0.23 | 10 | 0.16 | 245 |
| M706326 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 100 | < 0.5 | < 2 | 0.77 | < 0.5 | 2 | 102 | 4 | 1.17 | < 10 | < 1 | 0.28 | < 10 | 0.21 | 285 |
| M706327 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 100 | < 0.5 | < 2 | 0.49 | < 0.5 | 1 | 85 | 5 | 1.34 | < 10 | < 1 | 0.30 | < 10 | 0.17 | 200 |
| M706328 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 70 | 0.5 | < 2 | 0.74 | < 0.5 | 1 | 91 | 10 | 1.31 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 295 |
| M706329 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 80 | 0.5 | < 2 | 0.76 | < 0.5 | 1 | 113 | 3 | 1.35 | < 10 | < 1 | 0.34 | 10 | 0.10 | 370 |
| M706330 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 80 | 0.5 | < 2 | 0.63 | < 0.5 | 1 | 83 | 5 | 1.52 | < 10 | < 1 | 0.35 | 10 | 0.10 | 425 |
| M706331 | 205 | 294 | < 5 | < 0.2 | 0.46 | < 2 | 60 | < 0.5 | < 2 | 0.57 | < 0.5 | 1 | 88 | 5 | 1.39 | < 10 | < 1 | 0.24 | < 10 | 0.13 | 195 |
| M706332 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 100 | < 0.5 | < 2 | 0.65 | < 0.5 | 1 | 104 | 4 | 1.34 | < 10 | < 1 | 0.26 | < 10 | 0.13 | 225 |
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| M706336 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 90 | < 0.5 | < 2 | 0.44 | < 0.5 | 2 | 84 | 4 | 1.07 | < 10 | < 1 | 0.25 | < 10 | 0.20 | 250 |
| M706337 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 90 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 80 | 4 | 1.14 | < 10 | < 1 | 0.24 | < 10 | 0.19 | 260 |
| M706338 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 80 | 0.5 | < 2 | 0.89 | < 0.5 | 1 | 98 | 4 | 1.04 | < 10 | < 1 | 0.20 | < 10 | 0.14 | 295 |
| M706339 | 205 | 294 | < 5 | < 0.2 | 0.41 | < 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 2 | 68 | 3 | 1.03 | < 10 | < 1 | 0.21 | < 10 | 0.17 | 295 |
| M706340 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 100 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 99 | 3 | 1.20 | < 10 | < 1 | 0.24 | < 10 | 0.16 | 365 |

CERTIFICATION: _____



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Analytical Chemists * Geochemists * Registered Assayers
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN:LEO KING/MORGAN POLIQUIN

97-4

Page Number : 5-8
 Total Pages : 5
 Certificate Date: 27-OCT-97
 Invoice No. : 19747430
 P.O. Number :
 Account : PFM

97-4

CERTIFICATE OF ANALYSIS

A9747430

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
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| M706323 | 205 | 294 | 2 | 0.01 | 1 | 190 | 4 | < 2 | < 1 | 115 | < 0.01 | < 10 | < 10 | 5 | < 10 | 10 |
| M706324 | 205 | 294 | < 1 | 0.03 | 1 | 210 | 2 | < 2 | 1 | 53 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706325 | 205 | 294 | 1 | 0.03 | 2 | 190 | 2 | < 2 | 1 | 85 | < 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706326 | 205 | 294 | < 1 | 0.04 | 2 | 200 | 2 | < 2 | 1 | 65 | 0.01 | < 10 | < 10 | 12 | < 10 | 30 |
| M706327 | 205 | 294 | 1 | 0.04 | 3 | 200 | < 2 | < 2 | 1 | 44 | 0.01 | < 10 | < 10 | 11 | < 10 | 24 |
| M706328 | 205 | 294 | < 1 | 0.03 | 1 | 210 | 2 | < 2 | 1 | 63 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706329 | 205 | 294 | 1 | 0.04 | 1 | 210 | 2 | < 2 | 1 | 52 | < 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
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 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

97-4

Page Number :1-A
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

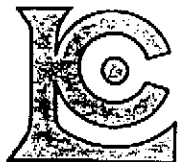
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CERTIFICATE OF ANALYSIS A9748633

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|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | 205 | 294 | FA+AA | | | | | | | | | | | | | | | | | | |
| M706341 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 90 | < 0.5 | < 2 | 0.57 | < 0.5 | 2 | 95 | 5 | 1.23 | < 10 | < 1 | 0.26 | < 10 | 0.20 | 280 |
| M706342 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.54 | < 0.5 | 3 | 61 | 7 | 1.34 | < 10 | < 1 | 0.20 | < 10 | 0.21 | 230 |
| M706343 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 0.53 | < 0.5 | 3 | 87 | 22 | 1.28 | < 10 | < 1 | 0.24 | < 10 | 0.24 | 220 |
| M706344 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 80 | < 0.5 | < 2 | 0.64 | < 0.5 | 2 | 105 | 4 | 1.35 | < 10 | < 1 | 0.28 | < 10 | 0.16 | 210 |
| M706345 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 100 | < 0.5 | < 2 | 0.71 | < 0.5 | 3 | 101 | 5 | 1.56 | < 10 | < 1 | 0.31 | < 10 | 0.17 | 205 |
| M706346 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 80 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 64 | 4 | 1.50 | < 10 | < 1 | 0.23 | < 10 | 0.18 | 180 |
| M706347 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 100 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 63 | 6 | 1.45 | < 10 | < 1 | 0.25 | < 10 | 0.16 | 190 |
| M706348 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 90 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 78 | 6 | 1.42 | < 10 | < 1 | 0.23 | < 10 | 0.21 | 240 |
| M706349 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 70 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 65 | 2 | 2.56 | < 10 | < 1 | 0.24 | < 10 | 0.14 | 160 |
| M706350 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 50 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 60 | 6 | 1.28 | < 10 | < 1 | 0.17 | < 10 | 0.15 | 165 |
| M706351 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 0.76 | < 0.5 | 2 | 55 | 6 | 1.08 | < 10 | < 1 | 0.15 | < 10 | 0.17 | 225 |
| M706352 | 205 | 294 | < 5 | < 0.2 | 0.34 | < 2 | 40 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 47 | 17 | 1.00 | < 10 | < 1 | 0.15 | < 10 | 0.11 | 180 |
| M706353 | 205 | 294 | < 5 | < 0.2 | 0.35 | < 2 | 60 | < 0.5 | < 2 | 0.76 | < 0.5 | 2 | 53 | 20 | 1.15 | < 10 | < 1 | 0.18 | < 10 | 0.10 | 200 |
| M706354 | 205 | 294 | < 5 | < 0.2 | 0.40 | < 2 | 70 | < 0.5 | < 2 | 0.77 | < 0.5 | 2 | 57 | 4 | 1.25 | < 10 | < 1 | 0.19 | < 10 | 0.15 | 205 |
| M706355 | 205 | 294 | < 5 | < 0.2 | 0.35 | < 2 | 60 | < 0.5 | < 2 | 0.90 | < 0.5 | 2 | 55 | 3 | 1.98 | < 10 | < 1 | 0.24 | < 10 | 0.04 | 155 |
| M706356 | 205 | 294 | < 5 | < 0.2 | 0.43 | < 2 | 60 | < 0.5 | < 2 | 0.55 | < 0.5 | 2 | 48 | 3 | 1.62 | < 10 | < 1 | 0.23 | < 10 | 0.14 | 150 |
| M706357 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 70 | < 0.5 | < 2 | 0.70 | < 0.5 | 2 | 57 | 4 | 1.57 | < 10 | < 1 | 0.23 | < 10 | 0.13 | 220 |
| M706358 | 205 | 294 | < 5 | < 0.2 | 0.44 | < 2 | 70 | < 0.5 | < 2 | 0.52 | < 0.5 | 3 | 48 | 3 | 1.64 | < 10 | < 1 | 0.21 | < 10 | 0.15 | 185 |
| M706359 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 70 | < 0.5 | < 2 | 0.62 | < 0.5 | 3 | 65 | 5 | 1.56 | < 10 | < 1 | 0.23 | < 10 | 0.14 | 180 |
| M706360 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 90 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 72 | 6 | 1.19 | < 10 | < 1 | 0.21 | < 10 | 0.20 | 200 |
| M706361 | 205 | 294 | < 5 | < 0.2 | 0.43 | < 2 | 70 | < 0.5 | < 2 | 0.48 | < 0.5 | 2 | 55 | 14 | 1.27 | < 10 | < 1 | 0.20 | < 10 | 0.16 | 165 |
| M706362 | 205 | 294 | < 5 | < 0.2 | 0.30 | < 2 | 40 | < 0.5 | < 2 | 0.54 | < 0.5 | 1 | 45 | 23 | 1.31 | < 10 | < 1 | 0.17 | < 10 | 0.07 | 125 |
| M706363 | 205 | 294 | < 5 | < 0.2 | 0.41 | < 2 | 60 | < 0.5 | < 2 | 0.56 | < 0.5 | 2 | 48 | 4 | 1.59 | < 10 | < 1 | 0.20 | < 10 | 0.13 | 215 |
| M706364 | 205 | 294 | < 5 | < 0.2 | 0.46 | < 2 | 70 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 56 | 5 | 1.39 | < 10 | < 1 | 0.19 | < 10 | 0.19 | 170 |
| M706365 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 80 | < 0.5 | < 2 | 0.39 | < 0.5 | 1 | 65 | 5 | 1.33 | < 10 | < 1 | 0.20 | < 10 | 0.20 | 185 |
| M706366 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 80 | < 0.5 | < 2 | 0.66 | < 0.5 | 2 | 72 | 5 | 1.59 | < 10 | < 1 | 0.21 | < 10 | 0.18 | 185 |
| M706367 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 90 | < 0.5 | < 2 | 0.61 | < 0.5 | 2 | 66 | 5 | 1.61 | < 10 | < 1 | 0.23 | < 10 | 0.15 | 170 |
| M706368 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 80 | < 0.5 | < 2 | 0.78 | < 0.5 | 2 | 53 | 4 | 1.22 | < 10 | < 1 | 0.19 | < 10 | 0.20 | 240 |
| M706369 | 205 | 294 | < 5 | < 0.2 | 0.49 | < 2 | 70 | < 0.5 | < 2 | 0.60 | < 0.5 | 2 | 64 | 3 | 1.63 | < 10 | < 1 | 0.26 | < 10 | 0.11 | 140 |
| M706370 | 205 | 294 | < 5 | < 0.2 | 0.41 | < 2 | 60 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 49 | 6 | 1.59 | < 10 | < 1 | 0.20 | < 10 | 0.13 | 135 |
| M706371 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 80 | < 0.5 | < 2 | 0.47 | < 0.5 | 1 | 58 | 4 | 1.46 | < 10 | < 1 | 0.21 | < 10 | 0.17 | 180 |
| M706372 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 70 | < 0.5 | < 2 | 4.04 | < 0.5 | 1 | 57 | 8 | 1.25 | < 10 | < 1 | 0.18 | < 10 | 0.17 | 345 |
| M706373 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 100 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 68 | 6 | 1.29 | < 10 | < 1 | 0.24 | < 10 | 0.22 | 205 |
| M706374 | 205 | 294 | < 5 | < 0.2 | 0.41 | < 2 | 50 | < 0.5 | < 2 | 0.62 | < 0.5 | 1 | 54 | 8 | 1.45 | < 10 | < 1 | 0.21 | < 10 | 0.13 | 175 |
| M706375 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 70 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 73 | 4 | 1.85 | < 10 | < 1 | 0.26 | < 10 | 0.15 | 145 |
| M706376 | 205 | 294 | < 5 | < 0.2 | 0.40 | < 2 | 50 | < 0.5 | < 2 | 0.63 | < 0.5 | 1 | 51 | 5 | 1.32 | < 10 | < 1 | 0.17 | < 10 | 0.14 | 150 |
| M706377 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 60 | < 0.5 | < 2 | 0.41 | < 0.5 | 1 | 63 | 4 | 1.47 | < 10 | < 1 | 0.20 | < 10 | 0.13 | 135 |
| M706378 | 205 | 294 | < 5 | < 0.2 | 0.31 | < 2 | 40 | < 0.5 | < 2 | 0.39 | < 0.5 | 2 | 53 | 3 | 1.92 | < 10 | < 1 | 0.18 | < 10 | 0.05 | 125 |
| M706379 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 50 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 54 | 5 | 1.85 | < 10 | < 1 | 0.24 | < 10 | 0.10 | 405 |
| M706380 | 205 | 294 | < 5 | < 0.2 | 0.43 | 10 | 40 | < 0.5 | < 2 | 0.46 | < 0.5 | 1 | 70 | 18 | 1.19 | < 10 | < 1 | 0.21 | < 10 | 0.07 | 235 |

CERTIFICATION:

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Project: MUNRO
Comments: ATTN: LEO KING

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Account :PFM

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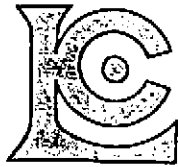
CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
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| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706341 | 205 | 294 | 1 | 0.07 | 2 | 190 | 2 | < 2 | 1 | 42 | 0.01 | < 10 | < 10 | 12 | < 10 | 26 |
| M706342 | 205 | 294 | 4 | 0.05 | 2 | 210 | 2 | < 2 | 1 | 36 | 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706343 | 205 | 294 | < 1 | 0.07 | 3 | 200 | 4 | < 2 | 1 | 36 | 0.03 | < 10 | < 10 | 13 | < 10 | 32 |
| M706344 | 205 | 294 | < 1 | 0.05 | 1 | 210 | 2 | < 2 | 1 | 61 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706345 | 205 | 294 | 1 | 0.06 | 2 | 200 | 2 | < 2 | 1 | 57 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706346 | 205 | 294 | 1 | 0.04 | 2 | 190 | 4 | < 2 | 1 | 37 | 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706347 | 205 | 294 | < 1 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 37 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706348 | 205 | 294 | < 1 | 0.04 | 2 | 220 | < 2 | < 2 | 1 | 37 | 0.01 | < 10 | < 10 | 12 | < 10 | 28 |
| M706349 | 205 | 294 | 10 | 0.04 | 2 | 190 | 4 | < 2 | 1 | 27 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706350 | 205 | 294 | < 1 | 0.03 | 1 | 200 | 2 | < 2 | < 1 | 30 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706351 | 205 | 294 | < 1 | 0.05 | 1 | 210 | 4 | < 2 | < 1 | 53 | < 0.01 | < 10 | < 10 | 6 | < 10 | 22 |
| M706352 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 2 | < 2 | < 1 | 42 | < 0.01 | < 10 | < 10 | 5 | < 10 | 18 |
| M706353 | 205 | 294 | 4 | 0.04 | 1 | 190 | 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706354 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 2 | < 2 | 1 | 57 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706355 | 205 | 294 | 14 | 0.02 | 2 | 170 | 4 | < 2 | < 1 | 67 | < 0.01 | < 10 | < 10 | 3 | < 10 | 18 |
| M706356 | 205 | 294 | < 1 | 0.03 | 1 | 200 | 6 | < 2 | < 1 | 41 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706357 | 205 | 294 | < 1 | 0.04 | 2 | 200 | 2 | < 2 | < 1 | 71 | < 0.01 | < 10 | < 10 | 7 | < 10 | 14 |
| M706358 | 205 | 294 | 1 | 0.03 | 1 | 200 | 2 | < 2 | 1 | 38 | 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706359 | 205 | 294 | 5 | 0.04 | 1 | 190 | 2 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706360 | 205 | 294 | 2 | 0.04 | 1 | 190 | 6 | < 2 | 1 | 36 | 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706361 | 205 | 294 | 1 | 0.04 | 2 | 180 | 6 | < 2 | 1 | 39 | < 0.01 | < 10 | < 10 | 8 | < 10 | 28 |
| M706362 | 205 | 294 | < 1 | 0.03 | 1 | 180 | < 2 | < 2 | < 1 | 37 | < 0.01 | < 10 | < 10 | 4 | < 10 | 16 |
| M706363 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 4 | < 2 | < 1 | 43 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706364 | 205 | 294 | < 1 | 0.03 | 1 | 200 | 2 | < 2 | 1 | 31 | 0.02 | < 10 | < 10 | 10 | < 10 | 26 |
| M706365 | 205 | 294 | 1 | 0.05 | 1 | 180 | 2 | < 2 | 1 | 27 | 0.04 | < 10 | < 10 | 11 | < 10 | 24 |
| M706366 | 205 | 294 | < 1 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 52 | 0.03 | < 10 | < 10 | 10 | < 10 | 22 |
| M706367 | 205 | 294 | 2 | 0.04 | 1 | 190 | < 2 | < 2 | 1 | 49 | 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706368 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 4 | < 2 | 1 | 74 | 0.01 | < 10 | < 10 | 10 | < 10 | 28 |
| M706369 | 205 | 294 | 1 | 0.03 | 1 | 190 | 4 | < 2 | < 1 | 58 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706370 | 205 | 294 | < 1 | 0.03 | 1 | 190 | < 2 | < 2 | < 1 | 38 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706371 | 205 | 294 | < 1 | 0.04 | 1 | 190 | < 2 | < 2 | 1 | 40 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706372 | 205 | 294 | < 1 | 0.03 | 1 | 180 | 2 | < 2 | 1 | 263 | 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706373 | 205 | 294 | < 1 | 0.05 | 1 | 190 | 2 | < 2 | 1 | 40 | 0.03 | < 10 | < 10 | 12 | < 10 | 26 |
| M706374 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 2 | < 2 | < 1 | 44 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706375 | 205 | 294 | < 1 | 0.04 | 2 | 210 | < 2 | < 2 | 1 | 46 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706376 | 205 | 294 | < 1 | 0.03 | 1 | 180 | 2 | < 2 | < 1 | 70 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706377 | 205 | 294 | < 1 | 0.04 | 1 | 180 | 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706378 | 205 | 294 | 3 | 0.01 | 1 | 180 | 8 | < 2 | < 1 | 55 | < 0.01 | < 10 | < 10 | 3 | < 10 | 8 |
| M706379 | 205 | 294 | 1 | 0.03 | 3 | 180 | 4 | < 2 | < 1 | 72 | < 0.01 | < 10 | < 10 | 4 | < 10 | 14 |
| M706380 | 205 | 294 | < 1 | 0.01 | 1 | 180 | 2 | < 2 | < 1 | 74 | < 0.01 | < 10 | < 10 | 3 | < 10 | 18 |

CERTIFICATION:

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To: ALMADEN RESOURCES CORP.

97-7

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
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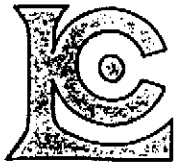
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Project : MUNRO
 Comments : ATTN: LEO KING

| | |
|--------------------------------|-----------------|
| CERTIFICATE OF ANALYSIS | A9748633 |
|--------------------------------|-----------------|

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706381 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 40 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 69 | 81 | 1.68 | < 10 | < 1 | 0.24 | < 10 | 0.08 | 140 |
| M706382 | 205 | 294 | < 5 | < 0.2 | 0.42 | < 2 | 50 | < 0.5 | < 2 | 0.44 | < 0.5 | 2 | 49 | 11 | 1.35 | < 10 | < 1 | 0.18 | < 10 | 0.16 | 160 |
| M706383 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 50 | < 0.5 | < 2 | 0.48 | < 0.5 | 2 | 49 | 16 | 1.58 | < 10 | < 1 | 0.20 | < 10 | 0.13 | 140 |
| M706384 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 50 | < 0.5 | < 2 | 0.45 | < 0.5 | 2 | 52 | 40 | 1.24 | < 10 | < 1 | 0.16 | < 10 | 0.16 | 185 |
| M706385 | 205 | 294 | < 5 | < 0.2 | 0.43 | < 2 | 60 | < 0.5 | < 2 | 0.42 | < 0.5 | 1 | 62 | 10 | 1.54 | < 10 | < 1 | 0.21 | < 10 | 0.14 | 165 |
| M706386 | 205 | 294 | < 5 | < 0.2 | 0.44 | < 2 | 60 | < 0.5 | < 2 | 0.61 | < 0.5 | 2 | 60 | 7 | 1.81 | < 10 | < 1 | 0.22 | < 10 | 0.15 | 195 |
| M706387 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 70 | < 0.5 | < 2 | 0.41 | < 0.5 | 2 | 71 | 15 | 1.42 | < 10 | < 1 | 0.22 | < 10 | 0.18 | 185 |
| M706388 | 205 | 294 | < 5 | < 0.2 | 0.43 | < 2 | 50 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 57 | 4 | 2.14 | < 10 | < 1 | 0.21 | < 10 | 0.13 | 170 |
| M706389 | 205 | 294 | < 5 | < 0.2 | 0.34 | < 2 | 30 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 29 | 7 | 1.81 | < 10 | < 1 | 0.15 | < 10 | 0.11 | 195 |
| M706390 | 205 | 294 | < 5 | < 0.2 | 0.41 | < 2 | 70 | < 0.5 | < 2 | 0.63 | < 0.5 | 2 | 53 | 10 | 1.66 | < 10 | < 1 | 0.18 | < 10 | 0.16 | 170 |
| M706391 | 205 | 294 | < 5 | < 0.2 | 0.39 | < 2 | 70 | < 0.5 | < 2 | 0.52 | < 0.5 | 2 | 34 | 7 | 1.35 | < 10 | < 1 | 0.18 | < 10 | 0.18 | 180 |
| M706392 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 90 | < 0.5 | < 2 | 0.50 | < 0.5 | 2 | 49 | 6 | 1.39 | < 10 | < 1 | 0.22 | < 10 | 0.22 | 210 |
| M706393 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 80 | < 0.5 | < 2 | 0.87 | < 0.5 | 2 | 55 | 4 | 1.28 | < 10 | < 1 | 0.22 | < 10 | 0.15 | 190 |
| M706394 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 80 | < 0.5 | < 2 | 0.75 | < 0.5 | 2 | 107 | 17 | 1.31 | < 10 | < 1 | 0.26 | < 10 | 0.16 | 190 |
| M706395 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 90 | < 0.5 | < 2 | 0.69 | < 0.5 | 2 | 71 | 4 | 1.39 | < 10 | < 1 | 0.27 | < 10 | 0.16 | 185 |
| M706396 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 90 | < 0.5 | < 2 | 0.57 | < 0.5 | 2 | 75 | 4 | 1.32 | < 10 | < 1 | 0.25 | < 10 | 0.17 | 180 |
| M706397 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 90 | < 0.5 | < 2 | 0.62 | < 0.5 | 1 | 79 | 5 | 1.22 | < 10 | < 1 | 0.24 | < 10 | 0.17 | 200 |
| M706398 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 60 | 0.5 | < 2 | 1.04 | < 0.5 | 2 | 65 | 19 | 1.29 | < 10 | < 1 | 0.24 | < 10 | 0.09 | 185 |
| M706399 | 205 | 294 | < 5 | < 0.2 | 0.48 | < 2 | 70 | < 0.5 | < 2 | 0.64 | < 0.5 | 2 | 67 | 7 | 1.72 | < 10 | < 1 | 0.24 | < 10 | 0.14 | 160 |
| M706400 | 205 | 294 | < 5 | < 0.2 | 0.40 | < 2 | 60 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 62 | 8 | 1.92 | < 10 | < 1 | 0.22 | < 10 | 0.09 | 90 |
| M706401 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 70 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 78 | 4 | 1.69 | < 10 | < 1 | 0.25 | < 10 | 0.07 | 130 |
| M706402 | 205 | 294 | < 5 | < 0.2 | 0.23 | < 2 | 40 | < 0.5 | < 2 | 0.44 | < 0.5 | 1 | 36 | 5 | 0.80 | < 10 | < 1 | 0.13 | < 10 | 0.06 | 110 |
| M706403 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 90 | < 0.5 | < 2 | 0.46 | < 0.5 | 2 | 74 | 4 | 1.38 | < 10 | < 1 | 0.24 | < 10 | 0.18 | 160 |
| M706404 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 50 | < 0.5 | < 2 | 0.60 | < 0.5 | 1 | 68 | 13 | 1.47 | < 10 | < 1 | 0.20 | < 10 | 0.14 | 135 |
| M706405 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 70 | < 0.5 | < 2 | 0.61 | < 0.5 | 2 | 71 | 8 | 1.59 | < 10 | < 1 | 0.24 | < 10 | 0.16 | 225 |
| M706406 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 80 | < 0.5 | < 2 | 0.77 | < 0.5 | 2 | 55 | 4 | 1.60 | < 10 | < 1 | 0.23 | < 10 | 0.15 | 295 |
| M706407 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 80 | < 0.5 | < 2 | 0.80 | < 0.5 | 3 | 78 | 7 | 1.63 | < 10 | < 1 | 0.28 | < 10 | 0.16 | 195 |
| M706408 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 100 | < 0.5 | < 2 | 0.76 | < 0.5 | 3 | 68 | 14 | 2.03 | < 10 | < 1 | 0.32 | < 10 | 0.22 | 235 |
| M706409 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 90 | < 0.5 | < 2 | 0.64 | < 0.5 | 3 | 77 | 5 | 1.56 | < 10 | < 1 | 0.28 | < 10 | 0.23 | 210 |
| M706410 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 70 | < 0.5 | < 2 | 1.09 | < 0.5 | 3 | 78 | 35 | 1.54 | < 10 | < 1 | 0.25 | < 10 | 0.18 | 245 |
| M706411 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 80 | < 0.5 | < 2 | 0.50 | < 0.5 | 3 | 87 | 16 | 1.63 | < 10 | < 1 | 0.28 | < 10 | 0.15 | 150 |
| M706412 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 80 | < 0.5 | < 2 | 0.65 | < 0.5 | 2 | 77 | 3 | 1.72 | < 10 | < 1 | 0.24 | < 10 | 0.14 | 155 |
| M706413 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 110 | < 0.5 | < 2 | 0.83 | < 0.5 | 3 | 95 | 8 | 1.82 | < 10 | < 1 | 0.34 | 10 | 0.24 | 225 |
| M706414 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 90 | < 0.5 | < 2 | 0.65 | < 0.5 | 3 | 92 | 10 | 1.73 | < 10 | < 1 | 0.29 | < 10 | 0.18 | 210 |
| M706415 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 120 | < 0.5 | < 2 | 0.42 | < 0.5 | 2 | 86 | 4 | 1.70 | < 10 | 1 | 0.34 | < 10 | 0.25 | 205 |
| M706416 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 90 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 78 | 4 | 1.39 | < 10 | < 1 | 0.24 | < 10 | 0.23 | 205 |
| M706417 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.38 | < 0.5 | 2 | 63 | 6 | 1.40 | < 10 | < 1 | 0.23 | < 10 | 0.21 | 175 |
| M706418 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 100 | < 0.5 | < 2 | 0.40 | < 0.5 | 3 | 87 | 4 | 1.52 | < 10 | < 1 | 0.28 | < 10 | 0.24 | 195 |
| M706419 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 70 | < 0.5 | < 2 | 0.52 | < 0.5 | 3 | 69 | 24 | 2.01 | < 10 | < 1 | 0.27 | < 10 | 0.13 | 130 |
| M706420 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 90 | < 0.5 | < 2 | 0.45 | < 0.5 | 1 | 99 | 6 | 1.47 | < 10 | < 1 | 0.28 | < 10 | 0.18 | 210 |

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
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To: ALMADEN RESOURCES CORP.

97-4

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Page Number :2-B
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

Project : MUNRO
 Comments: ATTN: LEO KING

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|-----------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706381 | 205 | 294 | < 1 | 0.02 | 1 | 180 | < 2 | < 2 | < 1 | 72 | < 0.01 | < 10 | < 10 | 4 | < 10 | 22 |
| M706382 | 205 | 294 | < 1 | 0.03 | 1 | 190 | < 2 | < 2 | < 1 | 57 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706383 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706384 | 205 | 294 | < 1 | 0.03 | 1 | 180 | 4 | < 2 | < 1 | 43 | < 0.01 | < 10 | < 10 | 7 | < 10 | 30 |
| M706385 | 205 | 294 | < 1 | 0.04 | 1 | 200 | 2 | < 2 | < 1 | 41 | < 0.01 | < 10 | < 10 | 7 | < 10 | 38 |
| M706386 | 205 | 294 | 2 | 0.03 | 1 | 200 | < 2 | < 2 | < 1 | 60 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706387 | 205 | 294 | 1 | 0.04 | 1 | 200 | < 2 | < 2 | 1 | 45 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706388 | 205 | 294 | 1 | 0.02 | 1 | 200 | 6 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 6 | < 10 | 16 |
| M706389 | 205 | 294 | 1 | 0.01 | 1 | 210 | < 2 | < 2 | < 1 | 55 | < 0.01 | < 10 | < 10 | 5 | < 10 | 18 |
| M706390 | 205 | 294 | 2 | 0.03 | 1 | 200 | 2 | < 2 | 1 | 59 | 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706391 | 205 | 294 | < 1 | 0.02 | 1 | 210 | 4 | < 2 | 1 | 47 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706392 | 205 | 294 | < 1 | 0.03 | 1 | 210 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 11 | < 10 | 32 |
| M706393 | 205 | 294 | < 1 | 0.03 | 1 | 190 | < 2 | < 2 | 1 | 146 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706394 | 205 | 294 | < 1 | 0.05 | 2 | 180 | 2 | < 2 | 1 | 105 | < 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706395 | 205 | 294 | < 1 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 100 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706396 | 205 | 294 | < 1 | 0.04 | 2 | 190 | < 2 | < 2 | 1 | 85 | 0.01 | < 10 | < 10 | 10 | < 10 | 22 |
| M706397 | 205 | 294 | < 1 | 0.04 | 1 | 180 | 4 | < 2 | 1 | 91 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706398 | 205 | 294 | 1 | 0.01 | 1 | 180 | 2 | < 2 | < 1 | 205 | < 0.01 | < 10 | 10 | 5 | < 10 | 42 |
| M706399 | 205 | 294 | < 1 | 0.04 | 1 | 210 | 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706400 | 205 | 294 | 2 | 0.02 | 1 | 210 | < 2 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706401 | 205 | 294 | < 1 | 0.03 | 2 | 200 | < 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 5 | < 10 | 16 |
| M706402 | 205 | 294 | < 1 | 0.02 | 2 | 140 | 8 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 4 | < 10 | 16 |
| M706403 | 205 | 294 | 1 | 0.04 | 1 | 180 | < 2 | < 2 | 1 | 44 | 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706404 | 205 | 294 | < 1 | 0.03 | 1 | 200 | 4 | < 2 | < 1 | 68 | < 0.01 | < 10 | < 10 | 7 | < 10 | 24 |
| M706405 | 205 | 294 | < 1 | 0.04 | 1 | 210 | 2 | < 2 | < 1 | 61 | < 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706406 | 205 | 294 | < 1 | 0.03 | 1 | 230 | 2 | < 2 | 1 | 77 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706407 | 205 | 294 | < 1 | 0.04 | 1 | 210 | < 2 | < 2 | 1 | 95 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706408 | 205 | 294 | < 1 | 0.03 | 1 | 290 | 2 | < 2 | 1 | 85 | 0.01 | < 10 | < 10 | 14 | < 10 | 36 |
| M706409 | 205 | 294 | < 1 | 0.05 | 1 | 230 | 2 | < 2 | 1 | 74 | 0.01 | < 10 | < 10 | 13 | < 10 | 28 |
| M706410 | 205 | 294 | < 1 | 0.03 | 2 | 200 | < 2 | < 2 | 1 | 112 | < 0.01 | < 10 | < 10 | 9 | < 10 | 28 |
| M706411 | 205 | 294 | < 1 | 0.04 | 1 | 180 | 2 | < 2 | 1 | 55 | < 0.01 | < 10 | < 10 | 9 | < 10 | 166 |
| M706412 | 205 | 294 | < 1 | 0.03 | 1 | 200 | < 2 | < 2 | 1 | 64 | 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706413 | 205 | 294 | 1 | 0.04 | 2 | 280 | < 2 | < 2 | 2 | 81 | 0.02 | < 10 | < 10 | 14 | < 10 | 36 |
| M706414 | 205 | 294 | 1 | 0.04 | 1 | 230 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 10 | < 10 | 32 |
| M706415 | 205 | 294 | 3 | 0.05 | 2 | 270 | < 2 | < 2 | 2 | 36 | 0.04 | < 10 | < 10 | 15 | < 10 | 32 |
| M706416 | 205 | 294 | < 1 | 0.04 | 2 | 230 | < 2 | < 2 | 1 | 38 | 0.03 | < 10 | < 10 | 13 | < 10 | 32 |
| M706417 | 205 | 294 | 2 | 0.03 | 1 | 220 | < 2 | < 2 | 1 | 35 | 0.03 | < 10 | < 10 | 12 | < 10 | 30 |
| M706418 | 205 | 294 | < 1 | 0.04 | 2 | 230 | < 2 | < 2 | 1 | 36 | 0.04 | < 10 | < 10 | 14 | < 10 | 32 |
| M706419 | 205 | 294 | 1 | 0.03 | 1 | 220 | < 2 | < 2 | < 1 | 47 | < 0.01 | < 10 | < 10 | 8 | < 10 | 112 |
| M706420 | 205 | 294 | < 1 | 0.04 | 1 | 210 | < 2 | < 2 | 1 | 35 | 0.03 | < 10 | < 10 | 11 | < 10 | 96 |

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

27-4

Page Number :3-B
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

97-4

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| CERTIFICATE OF ANALYSIS | A9748633 |
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97-5

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97-5

| SAMPLE | PREP | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | CODE | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706421 | 205 | 294 | 1 | 0.05 | 3 | 250 | < 2 | < 2 | 1 | 38 | 0.03 | < 10 | < 10 | 13 | < 10 | 34 |
| M706422 | 205 | 294 | < 1 | 0.05 | 3 | 230 | 2 | < 2 | 1 | 36 | 0.03 | < 10 | < 10 | 12 | < 10 | 34 |
| M706423 | 205 | 294 | < 1 | 0.06 | 2 | 200 | < 2 | < 2 | 1 | 33 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706424 | 205 | 294 | 1 | 0.04 | 3 | 230 | < 2 | < 2 | 1 | 37 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706425 | 205 | 294 | 4 | 0.05 | 3 | 220 | < 2 | < 2 | 1 | 35 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706426 | 205 | 294 | 1 | 0.03 | 2 | 230 | 2 | < 2 | < 1 | 96 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706427 | 205 | 294 | 1 | 0.03 | 3 | 240 | < 2 | < 2 | 1 | 36 | 0.01 | < 10 | < 10 | 9 | < 10 | 20 |
| M706428 | 205 | 294 | < 1 | 0.05 | 2 | 250 | 2 | < 2 | 2 | 46 | 0.03 | < 10 | < 10 | 16 | < 10 | 36 |
| M706429 | 205 | 294 | 1 | 0.04 | 2 | 270 | < 2 | 2 | 1 | 65 | 0.02 | < 10 | < 10 | 14 | < 10 | 32 |
| M706430 | 205 | 294 | 4 | 0.04 | 3 | 310 | 2 | < 2 | 2 | 80 | 0.03 | < 10 | < 10 | 18 | < 10 | 40 |
| M706431 | 205 | 294 | 3 | 0.05 | 3 | 250 | < 2 | < 2 | 1 | 51 | 0.03 | < 10 | < 10 | 13 | < 10 | 32 |
| M706432 | 205 | 294 | < 1 | 0.04 | 3 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 12 | < 10 | 80 |
| M706433 | 205 | 294 | < 1 | 0.05 | 3 | 240 | 2 | < 2 | 1 | 67 | 0.02 | < 10 | < 10 | 12 | < 10 | 28 |
| M706434 | 205 | 294 | 1 | 0.05 | 2 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706435 | 205 | 294 | 1 | 0.05 | 2 | 260 | < 2 | < 2 | 1 | 37 | 0.03 | < 10 | < 10 | 15 | < 10 | 34 |
| M706436 | 205 | 294 | 1 | 0.03 | 1 | 180 | 4 | < 2 | 1 | 21 | 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706437 | 205 | 294 | 6 | 0.03 | 1 | 130 | < 2 | < 2 | < 1 | 23 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706438 | 205 | 294 | 4 | 0.03 | 1 | 130 | < 2 | < 2 | < 1 | 26 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706439 | 205 | 294 | 6 | 0.03 | 3 | 210 | 2 | < 2 | 1 | 22 | < 0.01 | < 10 | < 10 | 8 | < 10 | 66 |
| M706440 | 205 | 294 | 1 | 0.03 | 2 | 230 | 4 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 7 | < 10 | 46 |
| M706441 | 205 | 294 | 1 | 0.03 | 2 | 220 | < 2 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 7 | < 10 | 26 |
| M706442 | 205 | 294 | < 1 | 0.03 | 2 | 220 | 12 | < 2 | 1 | 52 | < 0.01 | < 10 | < 10 | 9 | < 10 | 40 |
| M706443 | 205 | 294 | < 1 | 0.02 | 2 | 210 | 8 | < 2 | < 1 | 41 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706444 | 205 | 294 | < 1 | 0.01 | 2 | 220 | 2 | < 2 | < 1 | 24 | < 0.01 | < 10 | < 10 | 4 | < 10 | 8 |
| M706445 | 205 | 294 | < 1 | 0.02 | 3 | 200 | 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706446 | 205 | 294 | < 1 | 0.04 | 2 | 230 | < 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706447 | 205 | 294 | < 1 | 0.03 | 2 | 220 | < 2 | < 2 | < 1 | 30 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706448 | 205 | 294 | < 1 | 0.05 | 2 | 200 | < 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706449 | 205 | 294 | < 1 | 0.02 | 3 | 260 | < 2 | < 2 | < 1 | 19 | < 0.01 | < 10 | 10 | 4 | < 10 | 12 |
| M706450 | 205 | 294 | 2 | 0.01 | 2 | 210 | 2 | < 2 | < 1 | 13 | < 0.01 | < 10 | 10 | 3 | < 10 | 12 |
| M706451 | 205 | 294 | < 1 | 0.01 | 1 | 170 | < 2 | < 2 | < 1 | 21 | < 0.01 | < 10 | 10 | 2 | < 10 | 8 |
| M706452 | 205 | 294 | < 1 | 0.03 | 1 | 220 | 2 | < 2 | 1 | 29 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706453 | 205 | 294 | 3 | 0.02 | 2 | 150 | < 2 | < 2 | < 1 | 19 | < 0.01 | < 10 | 10 | 4 | < 10 | 30 |
| M706454 | 205 | 294 | < 1 | 0.03 | 2 | 220 | 2 | 2 | < 1 | 26 | < 0.01 | < 10 | < 10 | 6 | < 10 | 20 |
| M706455 | 205 | 294 | 56 | 0.01 | 2 | 140 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | 10 | 3 | < 10 | 14 |
| M706456 | 205 | 294 | 2 | 0.01 | 3 | 270 | < 2 | < 2 | < 1 | 50 | < 0.01 | < 10 | 10 | 3 | < 10 | 14 |
| M706457 | 205 | 294 | 2 | 0.02 | 3 | 230 | < 2 | < 2 | < 1 | 54 | < 0.01 | < 10 | < 10 | 4 | < 10 | 16 |
| M706458 | 205 | 294 | 1 | 0.04 | 2 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706459 | 205 | 294 | 1 | 0.03 | 2 | 220 | < 2 | 2 | 1 | 48 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706460 | 205 | 294 | 1 | 0.04 | 3 | 210 | 2 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 6 | < 10 | 16 |

CERTIFICATION: _____



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Analytical Chemists * Geochemists * Registered Assayers
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To: ALMADEN RESOURCES CORP.

97-5

Page Number :3-A
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
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 Account :PFM

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project : MUNRO
 Comments: ATTN: LEO KING

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | | | FA+AA | | | | | | | | | | | | | | | | | | |
| M706421 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 0.44 | < 0.5 | 3 | 93 | 6 | 1.81 | < 10 | < 1 | 0.29 | < 10 | 0.23 | 170 |
| M706422 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 100 | < 0.5 | < 2 | 0.44 | < 0.5 | 3 | 86 | 7 | 1.49 | < 10 | < 1 | 0.26 | < 10 | 0.22 | 185 |
| M706423 | 205 | 294 | < 5 | < 0.2 | 0.52 | 2 | 100 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 93 | 5 | 1.22 | < 10 | < 1 | 0.23 | < 10 | 0.20 | 190 |
| M706424 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 90 | < 0.5 | < 2 | 0.53 | < 0.5 | 2 | 88 | 27 | 1.87 | < 10 | < 1 | 0.30 | < 10 | 0.18 | 190 |
| M706425 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 170 | < 0.5 | < 2 | 0.39 | < 0.5 | 2 | 119 | 4 | 1.70 | < 10 | < 1 | 0.32 | < 10 | 0.19 | 160 |
| M706426 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 70 | < 0.5 | < 2 | 1.07 | < 0.5 | 2 | 111 | 3 | 1.98 | < 10 | < 1 | 0.31 | 10 | 0.12 | 155 |
| M706427 | 205 | 294 | < 5 | < 0.2 | 0.76 | < 2 | 120 | < 0.5 | < 2 | 0.35 | < 0.5 | 3 | 115 | 6 | 2.69 | < 10 | < 1 | 0.39 | 10 | 0.14 | 105 |
| M706428 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 180 | < 0.5 | < 2 | 0.47 | < 0.5 | 3 | 115 | 9 | 1.62 | < 10 | < 1 | 0.36 | < 10 | 0.26 | 225 |
| M706429 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 120 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 107 | 5 | 1.81 | < 10 | < 1 | 0.37 | 10 | 0.24 | 220 |
| M706430 | 205 | 294 | < 5 | < 0.2 | 0.82 | < 2 | 140 | < 0.5 | < 2 | 0.79 | < 0.5 | 3 | 100 | 5 | 1.83 | < 10 | < 1 | 0.39 | 10 | 0.29 | 285 |
| M706431 | 205 | 294 | < 5 | < 0.2 | 0.74 | < 2 | 140 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 110 | 6 | 1.66 | < 10 | < 1 | 0.35 | < 10 | 0.22 | 210 |
| M706432 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 120 | < 0.5 | < 2 | 0.58 | < 0.5 | 3 | 112 | 15 | 2.03 | < 10 | < 1 | 0.35 | < 10 | 0.19 | 185 |
| M706433 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 130 | < 0.5 | < 2 | 0.74 | < 0.5 | 3 | 110 | 11 | 1.97 | < 10 | < 1 | 0.35 | < 10 | 0.20 | 225 |
| M706434 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 100 | < 0.5 | < 2 | 0.74 | < 0.5 | 2 | 109 | 3 | 1.71 | < 10 | < 1 | 0.35 | 10 | 0.16 | 245 |
| M706435 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 120 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 99 | 3 | 1.42 | < 10 | < 1 | 0.34 | < 10 | 0.24 | 335 |
| M706436 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 130 | < 0.5 | < 2 | 0.07 | < 0.5 | 1 | 81 | 6 | 1.25 | < 10 | < 1 | 0.23 | < 10 | 0.09 | 80 |
| M706437 | 205 | 294 | < 5 | < 0.2 | 0.51 | 2 | 190 | < 0.5 | < 2 | 0.08 | < 0.5 | 1 | 91 | 5 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.08 | 70 |
| M706438 | 205 | 294 | < 5 | < 0.2 | 0.48 | 2 | 100 | < 0.5 | < 2 | 0.07 | < 0.5 | < 1 | 90 | 12 | 1.38 | < 10 | < 1 | 0.24 | < 10 | 0.07 | 55 |
| M706439 | 205 | 294 | < 5 | < 0.2 | 0.74 | < 2 | 100 | 0.5 | < 2 | 0.13 | < 0.5 | 3 | 99 | 36 | 1.45 | < 10 | < 1 | 0.26 | 10 | 0.10 | 55 |
| M706440 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 60 | 0.5 | < 2 | 0.48 | < 0.5 | 2 | 98 | 23 | 1.72 | < 10 | < 1 | 0.24 | 10 | 0.11 | 155 |
| M706441 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 70 | < 0.5 | < 2 | 0.84 | < 0.5 | 3 | 93 | 11 | 1.66 | < 10 | < 1 | 0.23 | < 10 | 0.10 | 215 |
| M706442 | 205 | 294 | < 5 | < 0.2 | 0.79 | < 2 | 60 | 0.5 | < 2 | 1.03 | < 0.5 | 3 | 106 | 29 | 1.45 | < 10 | < 1 | 0.32 | < 10 | 0.14 | 560 |
| M706443 | 205 | 294 | < 5 | < 0.2 | 0.55 | < 2 | 120 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 102 | 27 | 1.95 | < 10 | < 1 | 0.26 | < 10 | 0.08 | 495 |
| M706444 | 205 | 294 | < 5 | < 0.2 | 0.66 | 2 | 90 | < 0.5 | < 2 | 0.55 | < 0.5 | 3 | 88 | 19 | 2.65 | < 10 | < 1 | 0.31 | < 10 | 0.04 | 220 |
| M706445 | 205 | 294 | < 5 | < 0.2 | 0.56 | 2 | 60 | < 0.5 | < 2 | 0.65 | < 0.5 | 2 | 99 | 5 | 2.25 | < 10 | < 1 | 0.25 | < 10 | 0.08 | 235 |
| M706446 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 210 | < 0.5 | < 2 | 0.86 | < 0.5 | 1 | 106 | 10 | 1.87 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 345 |
| M706447 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 60 | < 0.5 | < 2 | 0.75 | < 0.5 | 1 | 82 | 28 | 1.41 | < 10 | 1 | 0.25 | 10 | 0.10 | 405 |
| M706448 | 205 | 294 | < 5 | < 0.2 | 0.57 | 2 | 80 | < 0.5 | < 2 | 0.53 | < 0.5 | 2 | 117 | 12 | 1.56 | < 10 | < 1 | 0.30 | < 10 | 0.10 | 185 |
| M706449 | 205 | 294 | < 5 | < 0.2 | 0.49 | 2 | 60 | < 0.5 | < 2 | 0.35 | < 0.5 | 2 | 103 | 4 | 3.08 | < 10 | < 1 | 0.27 | < 10 | 0.06 | 105 |
| M706450 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 50 | < 0.5 | 2 | 0.21 | < 0.5 | 3 | 84 | 3 | 3.95 | < 10 | < 1 | 0.26 | < 10 | 0.04 | 70 |
| M706451 | 205 | 294 | < 5 | < 0.2 | 0.34 | < 2 | 60 | < 0.5 | < 2 | 0.54 | < 0.5 | 1 | 92 | 5 | 2.31 | < 10 | < 1 | 0.23 | < 10 | 0.03 | 185 |
| M706452 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 85 | 7 | 1.80 | < 10 | < 1 | 0.24 | < 10 | 0.13 | 145 |
| M706453 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 100 | < 0.5 | < 2 | 0.37 | < 0.5 | 1 | 89 | 3 | 2.42 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 100 |
| M706454 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 130 | 0.5 | 2 | 0.47 | < 0.5 | 1 | 110 | 6 | 2.26 | < 10 | < 1 | 0.40 | 10 | 0.09 | 135 |
| M706455 | 205 | 294 | < 5 | 1.0 | 0.56 | 2 | 50 | < 0.5 | 6 | 0.62 | < 0.5 | 3 | 112 | 28 | 4.89 | < 10 | 1 | 0.31 | < 10 | 0.04 | 175 |
| M706456 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 80 | < 0.5 | < 2 | 1.31 | < 0.5 | 2 | 101 | 3 | 2.71 | < 10 | < 1 | 0.34 | < 10 | 0.06 | 420 |
| M706457 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 80 | < 0.5 | 6 | 0.94 | < 0.5 | 4 | 139 | 26 | 2.95 | < 10 | 1 | 0.35 | < 10 | 0.07 | 275 |
| M706458 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 150 | < 0.5 | < 2 | 0.74 | < 0.5 | 2 | 108 | 8 | 1.83 | < 10 | < 1 | 0.30 | < 10 | 0.17 | 240 |
| M706459 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 100 | < 0.5 | < 2 | 0.70 | < 0.5 | 1 | 89 | 12 | 2.04 | < 10 | < 1 | 0.27 | < 10 | 0.11 | 200 |
| M706460 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 100 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 132 | 10 | 1.93 | < 10 | 1 | 0.34 | < 10 | 0.10 | 185 |

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CERTIFICATION:

[Handwritten signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

775

Page number : 3-A
 Total Pages : 7
 Certificate Date: 06-NOV-97
 Invoice No. : 19748633
 P.O. Number :
 Account : PFM

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | Au ppb FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|--------|-----------|---------|-----------|
| M706421 | 205 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 0.44 | < 0.5 | 3 | 93 | 6 | 1.81 | < 10 | < 1 | 0.29 | < 10 | 0.23 | 170 |
| M706422 | 205 294 | < 5 | < 0.2 | 0.54 | < 2 | 100 | < 0.5 | < 2 | 0.44 | < 0.5 | 3 | 86 | 7 | 1.49 | < 10 | < 1 | 0.26 | < 10 | 0.22 | 185 |
| M706423 | 205 294 | < 5 | < 0.2 | 0.52 | < 2 | 100 | < 0.5 | < 2 | 0.40 | < 0.5 | 2 | 93 | 5 | 1.22 | < 10 | < 1 | 0.23 | < 10 | 0.20 | 190 |
| M706424 | 205 294 | < 5 | < 0.2 | 0.56 | < 2 | 90 | < 0.5 | < 2 | 0.53 | < 0.5 | 2 | 88 | 27 | 1.87 | < 10 | < 1 | 0.30 | < 10 | 0.18 | 190 |
| M706425 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 170 | < 0.5 | < 2 | 0.39 | < 0.5 | 2 | 119 | 4 | 1.70 | < 10 | < 1 | 0.32 | < 10 | 0.19 | 160 |
| M706426 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 70 | < 0.5 | < 2 | 1.07 | < 0.5 | 2 | 111 | 3 | 1.98 | < 10 | < 1 | 0.31 | 10 | 0.12 | 155 |
| M706427 | 205 294 | < 5 | < 0.2 | 0.76 | < 2 | 120 | < 0.5 | < 2 | 0.35 | < 0.5 | 3 | 115 | 6 | 2.69 | < 10 | < 1 | 0.39 | 10 | 0.14 | 105 |
| M706428 | 205 294 | < 5 | < 0.2 | 0.73 | < 2 | 180 | < 0.5 | < 2 | 0.47 | < 0.5 | 3 | 115 | 9 | 1.62 | < 10 | < 1 | 0.36 | < 10 | 0.26 | 225 |
| M706429 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 120 | < 0.5 | < 2 | 0.57 | < 0.5 | 3 | 107 | 5 | 1.81 | < 10 | < 1 | 0.37 | 10 | 0.24 | 220 |
| M706430 | 205 294 | < 5 | < 0.2 | 0.82 | < 2 | 140 | < 0.5 | < 2 | 0.79 | < 0.5 | 3 | 100 | 5 | 1.83 | < 10 | < 1 | 0.39 | 10 | 0.29 | 285 |
| M706431 | 205 294 | < 5 | < 0.2 | 0.74 | < 2 | 140 | < 0.5 | < 2 | 0.51 | < 0.5 | 2 | 110 | 6 | 1.66 | < 10 | < 1 | 0.35 | < 10 | 0.22 | 210 |
| M706432 | 205 294 | < 5 | < 0.2 | 0.67 | < 2 | 120 | < 0.5 | < 2 | 0.58 | < 0.5 | 3 | 112 | 15 | 2.03 | < 10 | < 1 | 0.35 | < 10 | 0.19 | 185 |
| M706433 | 205 294 | < 5 | < 0.2 | 0.71 | < 2 | 130 | < 0.5 | < 2 | 0.74 | < 0.5 | 3 | 110 | 11 | 1.97 | < 10 | < 1 | 0.35 | < 10 | 0.20 | 225 |
| M706434 | 205 294 | < 5 | < 0.2 | 0.68 | < 2 | 100 | < 0.5 | < 2 | 0.74 | < 0.5 | 2 | 109 | 3 | 1.71 | < 10 | < 1 | 0.35 | 10 | 0.16 | 245 |
| M706435 | 205 294 | < 5 | < 0.2 | 0.66 | < 2 | 120 | < 0.5 | < 2 | 0.63 | < 0.5 | 3 | 99 | 3 | 1.42 | < 10 | < 1 | 0.34 | < 10 | 0.24 | 335 |
| M706436 | 205 294 | < 5 | < 0.2 | 0.50 | < 2 | 130 | < 0.5 | < 2 | 0.07 | < 0.5 | 1 | 81 | 6 | 1.25 | < 10 | < 1 | 0.23 | < 10 | 0.09 | 80 |
| M706437 | 205 294 | < 5 | 0.2 | 0.51 | < 2 | 190 | < 0.5 | < 2 | 0.08 | < 0.5 | 1 | 91 | 5 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.08 | 70 |
| M706438 | 205 294 | < 5 | < 0.2 | 0.48 | < 2 | 100 | < 0.5 | < 2 | 0.07 | < 0.5 | < 1 | 90 | 12 | 1.38 | < 10 | < 1 | 0.24 | < 10 | 0.07 | 55 |
| M706439 | 205 294 | < 5 | < 0.2 | 0.74 | < 2 | 100 | 0.5 | < 2 | 0.13 | < 0.5 | 3 | 99 | 36 | 1.45 | < 10 | < 1 | 0.26 | 10 | 0.10 | 55 |
| M706440 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 60 | 0.5 | < 2 | 0.48 | < 0.5 | 2 | 98 | 23 | 1.72 | < 10 | < 1 | 0.24 | 10 | 0.11 | 155 |
| M706441 | 205 294 | < 5 | < 0.2 | 0.57 | < 2 | 70 | < 0.5 | < 2 | 0.84 | < 0.5 | 3 | 93 | 11 | 1.66 | < 10 | < 1 | 0.23 | < 10 | 0.10 | 215 |
| M706442 | 205 294 | < 5 | < 0.2 | 0.79 | < 2 | 60 | 0.5 | < 2 | 1.03 | < 0.5 | 3 | 106 | 29 | 1.45 | < 10 | < 1 | 0.32 | < 10 | 0.14 | 560 |
| M706443 | 205 294 | < 5 | < 0.2 | 0.55 | < 2 | 120 | < 0.5 | < 2 | 0.89 | < 0.5 | 2 | 102 | 27 | 1.95 | < 10 | < 1 | 0.26 | < 10 | 0.08 | 495 |
| M706444 | 205 294 | < 5 | < 0.2 | 0.66 | < 2 | 90 | < 0.5 | < 2 | 0.55 | < 0.5 | 3 | 88 | 19 | 2.65 | < 10 | < 1 | 0.31 | < 10 | 0.04 | 220 |
| M706445 | 205 294 | < 5 | < 0.2 | 0.56 | < 2 | 60 | < 0.5 | < 2 | 0.65 | < 0.5 | 2 | 99 | 5 | 2.25 | < 10 | < 1 | 0.25 | < 10 | 0.08 | 235 |
| M706446 | 205 294 | < 5 | < 0.2 | 0.67 | < 2 | 210 | < 0.5 | < 2 | 0.86 | < 0.5 | 1 | 106 | 10 | 1.87 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 345 |
| M706447 | 205 294 | < 5 | < 0.2 | 0.52 | < 2 | 60 | < 0.5 | < 2 | 0.75 | < 0.5 | 1 | 82 | 28 | 1.41 | < 10 | < 1 | 0.25 | 10 | 0.10 | 405 |
| M706448 | 205 294 | < 5 | < 0.2 | 0.57 | < 2 | 80 | < 0.5 | < 2 | 0.53 | < 0.5 | 2 | 117 | 12 | 1.56 | < 10 | < 1 | 0.30 | < 10 | 0.10 | 185 |
| M706449 | 205 294 | < 5 | < 0.2 | 0.49 | < 2 | 60 | < 0.5 | < 2 | 0.35 | < 0.5 | 2 | 103 | 4 | 3.08 | < 10 | < 1 | 0.27 | < 10 | 0.06 | 105 |
| M706450 | 205 294 | < 5 | < 0.2 | 0.45 | < 2 | 50 | < 0.5 | < 2 | 0.21 | < 0.5 | 3 | 84 | 3 | 3.95 | < 10 | < 1 | 0.26 | < 10 | 0.04 | 70 |
| M706451 | 205 294 | < 5 | < 0.2 | 0.34 | < 2 | 60 | < 0.5 | < 2 | 0.54 | < 0.5 | 1 | 92 | 5 | 2.31 | < 10 | < 1 | 0.23 | < 10 | 0.03 | 185 |
| M706452 | 205 294 | < 5 | < 0.2 | 0.52 | < 2 | 80 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 85 | 7 | 1.80 | < 10 | < 1 | 0.24 | < 10 | 0.13 | 145 |
| M706453 | 205 294 | < 5 | < 0.2 | 0.60 | < 2 | 100 | < 0.5 | < 2 | 0.37 | < 0.5 | 1 | 89 | 3 | 2.42 | < 10 | < 1 | 0.33 | < 10 | 0.05 | 100 |
| M706454 | 205 294 | < 5 | < 0.2 | 0.75 | < 2 | 130 | 0.5 | < 2 | 0.47 | < 0.5 | 1 | 110 | 6 | 2.26 | < 10 | < 1 | 0.40 | 10 | 0.09 | 135 |
| M706455 | 205 294 | < 5 | 1.0 | 0.56 | < 2 | 50 | < 0.5 | < 2 | 0.62 | < 0.5 | 3 | 112 | 28 | 4.89 | < 10 | < 1 | 0.31 | < 10 | 0.04 | 175 |
| M706456 | 205 294 | < 5 | < 0.2 | 0.59 | < 2 | 80 | < 0.5 | < 2 | 1.31 | < 0.5 | 2 | 101 | 3 | 2.71 | < 10 | < 1 | 0.34 | < 10 | 0.06 | 420 |
| M706457 | 205 294 | < 5 | < 0.2 | 0.68 | < 2 | 80 | < 0.5 | < 2 | 0.94 | < 0.5 | 4 | 139 | 26 | 2.95 | < 10 | < 1 | 0.35 | < 10 | 0.07 | 275 |
| M706458 | 205 294 | < 5 | < 0.2 | 0.69 | < 2 | 150 | < 0.5 | < 2 | 0.74 | < 0.5 | 2 | 108 | 8 | 1.83 | < 10 | < 1 | 0.30 | < 10 | 0.17 | 240 |
| M706459 | 205 294 | < 5 | < 0.2 | 0.62 | < 2 | 100 | < 0.5 | < 2 | 0.70 | < 0.5 | 1 | 89 | 12 | 2.04 | < 10 | < 1 | 0.27 | < 10 | 0.11 | 200 |
| M706460 | 205 294 | < 5 | < 0.2 | 0.69 | < 2 | 100 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 132 | 10 | 1.93 | < 10 | < 1 | 0.34 | < 10 | 0.10 | 185 |

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CERTIFICATION:



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1420 - 700 W. GEORGIA ST., P.O. BOX 10071
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 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

97-5

Page Number :3-B
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. : I9748633
 P.O. Number :
 Account : PFM

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|---------|-----------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| M706421 | 205 294 | 1 | 0.05 | 3 | 250 | < 2 | < 2 | 1 | 38 | 0.03 | < 10 | < 10 | 13 | < 10 | 34 |
| M706422 | 205 294 | < 1 | 0.05 | 3 | 230 | 2 | < 2 | 1 | 36 | 0.03 | < 10 | < 10 | 12 | < 10 | 34 |
| M706423 | 205 294 | < 1 | 0.06 | 2 | 200 | < 2 | < 2 | 1 | 33 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706424 | 205 294 | 1 | 0.04 | 3 | 230 | < 2 | < 2 | 1 | 37 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706425 | 205 294 | 4 | 0.05 | 3 | 220 | < 2 | < 2 | 1 | 35 | 0.02 | < 10 | < 10 | 11 | < 10 | 30 |
| M706426 | 205 294 | 1 | 0.03 | 2 | 230 | 2 | < 2 | < 1 | 96 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706427 | 205 294 | 1 | 0.03 | 3 | 240 | < 2 | < 2 | 1 | 36 | 0.01 | < 10 | < 10 | 9 | < 10 | 20 |
| M706428 | 205 294 | < 1 | 0.05 | 2 | 250 | 2 | < 2 | 2 | 46 | 0.03 | < 10 | < 10 | 16 | < 10 | 36 |
| M706429 | 205 294 | 1 | 0.04 | 2 | 270 | < 2 | 2 | 1 | 65 | 0.02 | < 10 | < 10 | 14 | < 10 | 32 |
| M706430 | 205 294 | 4 | 0.04 | 3 | 310 | 2 | < 2 | 2 | 80 | 0.03 | < 10 | < 10 | 18 | < 10 | 40 |
| M706431 | 205 294 | 3 | 0.05 | 3 | 250 | < 2 | < 2 | 1 | 51 | 0.03 | < 10 | < 10 | 13 | < 10 | 32 |
| M706432 | 205 294 | < 1 | 0.04 | 3 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 12 | < 10 | 80 |
| M706433 | 205 294 | < 1 | 0.05 | 3 | 240 | 2 | < 2 | 1 | 67 | 0.02 | < 10 | < 10 | 12 | < 10 | 28 |
| M706434 | 205 294 | 1 | 0.05 | 2 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706435 | 205 294 | 1 | 0.05 | 2 | 260 | < 2 | < 2 | 1 | 37 | 0.03 | < 10 | < 10 | 15 | < 10 | 34 |
| M706436 | 205 294 | 1 | 0.03 | 1 | 180 | 4 | < 2 | 1 | 21 | 0.01 | < 10 | < 10 | 8 | < 10 | 16 |
| M706437 | 205 294 | 6 | 0.03 | 1 | 130 | < 2 | < 2 | < 1 | 23 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706438 | 205 294 | 4 | 0.03 | 1 | 130 | < 2 | < 2 | < 1 | 26 | < 0.01 | < 10 | < 10 | 7 | < 10 | 16 |
| M706439 | 205 294 | 6 | 0.03 | 3 | 210 | 2 | < 2 | 1 | 22 | < 0.01 | < 10 | < 10 | 8 | < 10 | 66 |
| M706440 | 205 294 | 1 | 0.03 | 2 | 230 | 4 | < 2 | < 1 | 34 | < 0.01 | < 10 | < 10 | 7 | < 10 | 46 |
| M706441 | 205 294 | 1 | 0.03 | 2 | 220 | < 2 | < 2 | < 1 | 51 | < 0.01 | < 10 | < 10 | 7 | < 10 | 26 |
| M706442 | 205 294 | < 1 | 0.03 | 2 | 220 | 12 | < 2 | 1 | 52 | < 0.01 | < 10 | < 10 | 9 | < 10 | 40 |
| M706443 | 205 294 | < 1 | 0.02 | 2 | 210 | 8 | < 2 | < 1 | 41 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706444 | 205 294 | < 1 | 0.01 | 2 | 220 | 2 | < 2 | < 1 | 24 | < 0.01 | < 10 | < 10 | 4 | < 10 | 8 |
| M706445 | 205 294 | < 1 | 0.02 | 3 | 200 | 2 | < 2 | < 1 | 35 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706446 | 205 294 | < 1 | 0.04 | 2 | 230 | < 2 | < 2 | < 1 | 45 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706447 | 205 294 | < 1 | 0.03 | 2 | 220 | < 2 | < 2 | < 1 | 30 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706448 | 205 294 | < 1 | 0.05 | 2 | 200 | < 2 | < 2 | < 1 | 25 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706449 | 205 294 | < 1 | 0.02 | 3 | 260 | < 2 | < 2 | < 1 | 19 | < 0.01 | < 10 | 10 | 4 | < 10 | 12 |
| M706450 | 205 294 | 2 | 0.01 | 2 | 210 | 2 | < 2 | < 1 | 13 | < 0.01 | < 10 | 10 | 3 | < 10 | 12 |
| M706451 | 205 294 | < 1 | 0.01 | 1 | 170 | < 2 | < 2 | < 1 | 21 | < 0.01 | < 10 | 10 | 2 | < 10 | 8 |
| M706452 | 205 294 | < 1 | 0.03 | 1 | 220 | 2 | < 2 | 1 | 29 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706453 | 205 294 | 3 | 0.02 | 2 | 150 | < 2 | < 2 | < 1 | 19 | < 0.01 | < 10 | 10 | 4 | < 10 | 30 |
| M706454 | 205 294 | < 1 | 0.03 | 2 | 220 | 2 | 2 | < 1 | 26 | < 0.01 | < 10 | < 10 | 6 | < 10 | 20 |
| M706455 | 205 294 | 56 | 0.01 | 2 | 140 | 2 | < 2 | < 1 | 29 | < 0.01 | < 10 | 10 | 3 | < 10 | 14 |
| M706456 | 205 294 | 2 | 0.01 | 3 | 270 | < 2 | < 2 | < 1 | 50 | < 0.01 | < 10 | 10 | 3 | < 10 | 14 |
| M706457 | 205 294 | 2 | 0.02 | 3 | 230 | < 2 | < 2 | < 1 | 54 | < 0.01 | < 10 | < 10 | 4 | < 10 | 16 |
| M706458 | 205 294 | 1 | 0.04 | 2 | 250 | < 2 | < 2 | 1 | 51 | 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706459 | 205 294 | 1 | 0.03 | 2 | 220 | < 2 | 2 | 1 | 48 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706460 | 205 294 | 1 | 0.04 | 3 | 210 | 2 | < 2 | < 1 | 39 | < 0.01 | < 10 | < 10 | 6 | < 10 | 16 |

CERTIFICATION: Leo King



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To: ALMADEN RESOURCES CORP.

97-5

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
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Page Number :4-A
Total Pages :7
Certificate Date: 06-NOV-97
Invoice No. : 19748633
P.O. Number :
Account : PFM

Project: MUNRO
Comments: ATTN: LEO KING

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706461 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 70 | < 0.5 | < 2 | 1.57 | < 0.5 | 1 | 110 | 20 | 1.47 | < 10 | < 1 | 0.30 | 10 | 0.07 | 540 |
| M706462 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 50 | < 0.5 | < 2 | 1.54 | < 0.5 | 1 | 75 | 4 | 1.67 | < 10 | < 1 | 0.30 | < 10 | 0.06 | 645 |
| M706463 | 205 | 294 | < 5 | < 0.2 | 0.55 | 2 | 80 | < 0.5 | < 2 | 0.79 | < 0.5 | 2 | 99 | 21 | 2.15 | < 10 | < 1 | 0.25 | < 10 | 0.08 | 220 |
| M706464 | 205 | 294 | < 5 | < 0.2 | 0.44 | < 2 | 90 | < 0.5 | < 2 | 1.65 | < 0.5 | 2 | 81 | 3 | 1.93 | < 10 | < 1 | 0.30 | < 10 | 0.05 | 735 |
| M706465 | 205 | 294 | < 5 | < 0.2 | 0.54 | 2 | 130 | < 0.5 | < 2 | 0.71 | < 0.5 | 2 | 103 | 8 | 1.59 | < 10 | 1 | 0.27 | < 10 | 0.11 | 265 |
| M706466 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 110 | < 0.5 | < 2 | 0.65 | < 0.5 | 2 | 92 | 4 | 1.88 | < 10 | < 1 | 0.25 | 10 | 0.13 | 175 |
| M706467 | 205 | 294 | < 5 | < 0.2 | 0.46 | < 2 | 80 | < 0.5 | < 2 | 0.49 | < 0.5 | 1 | 74 | 3 | 2.15 | < 10 | < 1 | 0.23 | < 10 | 0.08 | 125 |
| M706468 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 190 | < 0.5 | < 2 | 1.37 | < 0.5 | 2 | 86 | 6 | 1.90 | < 10 | < 1 | 0.25 | 10 | 0.15 | 260 |
| M706469 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 70 | < 0.5 | < 2 | 0.97 | < 0.5 | 3 | 109 | 6 | 2.52 | < 10 | < 1 | 0.29 | 10 | 0.11 | 190 |
| M706470 | 205 | 294 | < 5 | < 0.2 | 0.47 | < 2 | 40 | < 0.5 | 2 | 0.64 | < 0.5 | 2 | 74 | 3 | 3.26 | < 10 | < 1 | 0.22 | < 10 | 0.06 | 170 |
| M706471 | 205 | 294 | < 5 | < 0.2 | 0.49 | 2 | 50 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 82 | 7 | 4.07 | < 10 | < 1 | 0.24 | < 10 | 0.05 | 250 |
| M706472 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 70 | < 0.5 | < 2 | 1.35 | < 0.5 | 2 | 96 | 10 | 1.54 | < 10 | < 1 | 0.28 | < 10 | 0.15 | 345 |
| M706473 | 205 | 294 | < 5 | < 0.2 | 0.74 | < 2 | 290 | < 0.5 | < 2 | 0.90 | < 0.5 | 2 | 100 | 8 | 1.63 | < 10 | < 1 | 0.26 | 10 | 0.19 | 225 |
| M706474 | 205 | 294 | < 5 | < 0.2 | 0.60 | 2 | 140 | < 0.5 | < 2 | 0.81 | < 0.5 | 2 | 75 | 7 | 1.84 | < 10 | < 1 | 0.25 | 10 | 0.13 | 230 |
| M706475 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 100 | < 0.5 | < 2 | 1.20 | < 0.5 | 2 | 101 | 4 | 1.49 | < 10 | < 1 | 0.35 | 10 | 0.10 | 550 |
| M706476 | 205 | 294 | < 5 | < 0.2 | 0.76 | 2 | 70 | < 0.5 | < 2 | 0.95 | < 0.5 | 2 | 68 | 5 | 1.87 | < 10 | < 1 | 0.30 | < 10 | 0.13 | 400 |
| M706477 | 205 | 294 | < 5 | < 0.2 | 0.69 | 2 | 70 | < 0.5 | < 2 | 0.81 | < 0.5 | 2 | 74 | 5 | 1.49 | < 10 | < 1 | 0.26 | 10 | 0.17 | 235 |
| M706478 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 100 | < 0.5 | < 2 | 0.57 | < 0.5 | 2 | 69 | 3 | 1.53 | < 10 | < 1 | 0.25 | < 10 | 0.16 | 180 |
| M706479 | 205 | 294 | < 5 | < 0.2 | 0.72 | 2 | 80 | < 0.5 | < 2 | 1.03 | < 0.5 | 2 | 89 | 3 | 1.77 | < 10 | < 1 | 0.26 | < 10 | 0.18 | 255 |
| M706480 | 205 | 294 | < 5 | < 0.2 | 0.50 | 2 | 110 | < 0.5 | < 2 | 0.67 | < 0.5 | 2 | 68 | 3 | 2.07 | < 10 | < 1 | 0.25 | < 10 | 0.08 | 290 |
| M706481 | 205 | 294 | < 5 | < 0.2 | 0.78 | < 2 | 100 | < 0.5 | < 2 | 1.18 | < 0.5 | 3 | 99 | 4 | 1.81 | < 10 | < 1 | 0.26 | < 10 | 0.15 | 285 |
| M706482 | 205 | 294 | < 5 | < 0.2 | 0.85 | < 2 | 90 | < 0.5 | < 2 | 0.83 | < 0.5 | 2 | 89 | 22 | 1.76 | < 10 | < 1 | 0.37 | < 10 | 0.12 | 315 |
| M706483 | 205 | 294 | < 5 | < 0.2 | 0.87 | < 2 | 170 | < 0.5 | < 2 | 1.06 | < 0.5 | 2 | 95 | 7 | 2.15 | < 10 | < 1 | 0.34 | 10 | 0.15 | 390 |
| M706484 | 205 | 294 | < 5 | < 0.2 | 0.85 | < 2 | 240 | < 0.5 | < 2 | 0.56 | < 0.5 | 3 | 89 | 5 | 1.83 | < 10 | 1 | 0.33 | 10 | 0.22 | 215 |
| M706485 | 205 | 294 | < 5 | < 0.2 | 0.82 | < 2 | 220 | < 0.5 | < 2 | 0.96 | < 0.5 | 2 | 106 | 4 | 1.67 | < 10 | < 1 | 0.29 | < 10 | 0.22 | 285 |
| M706486 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 250 | < 0.5 | < 2 | 0.70 | < 0.5 | 3 | 84 | 5 | 1.81 | < 10 | < 1 | 0.32 | < 10 | 0.17 | 320 |
| M706487 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 70 | < 0.5 | < 2 | 0.90 | < 0.5 | 2 | 102 | 4 | 2.45 | < 10 | < 1 | 0.32 | < 10 | 0.12 | 400 |
| M706488 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 80 | < 0.5 | < 2 | 0.65 | < 0.5 | 3 | 78 | 37 | 2.26 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 180 |
| M706489 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 110 | < 0.5 | < 2 | 0.44 | < 0.5 | 2 | 98 | 6 | 2.43 | < 10 | < 1 | 0.31 | < 10 | 0.15 | 160 |
| M706490 | 205 | 294 | < 5 | < 0.2 | 0.44 | < 2 | 40 | < 0.5 | < 2 | 0.33 | < 0.5 | 2 | 73 | 4 | 5.55 | < 10 | < 1 | 0.23 | < 10 | 0.04 | 50 |
| M706491 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 90 | < 0.5 | < 2 | 0.37 | < 0.5 | 3 | 88 | 2 | 2.33 | < 10 | < 1 | 0.27 | < 10 | 0.12 | 110 |
| M706492 | 205 | 294 | < 5 | 0.2 | 0.63 | < 2 | 100 | < 0.5 | < 2 | 1.16 | < 0.5 | 2 | 75 | 6 | 1.85 | < 10 | < 1 | 0.28 | < 10 | 0.12 | 225 |
| M706493 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 70 | < 0.5 | < 2 | 0.51 | < 0.5 | 1 | 93 | 7 | 3.26 | < 10 | 1 | 0.28 | < 10 | 0.07 | 100 |
| M706494 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 30 | < 0.5 | 2 | 0.16 | < 0.5 | 1 | 95 | 4 | 7.53 | < 10 | < 1 | 0.25 | < 10 | 0.01 | 30 |
| M706495 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 150 | < 0.5 | < 2 | 0.82 | < 0.5 | 2 | 95 | 5 | 1.97 | < 10 | < 1 | 0.29 | < 10 | 0.11 | 170 |
| M706496 | 205 | 294 | < 5 | < 0.2 | 0.81 | < 2 | 100 | < 0.5 | < 2 | 1.19 | < 0.5 | 2 | 84 | 7 | 1.83 | < 10 | < 1 | 0.31 | 10 | 0.15 | 220 |
| M706497 | 205 | 294 | < 5 | < 0.2 | 0.80 | 2 | 90 | < 0.5 | < 2 | 0.95 | < 0.5 | 3 | 116 | 4 | 3.02 | < 10 | < 1 | 0.33 | < 10 | 0.10 | 170 |
| M706498 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 90 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 92 | 5 | 1.62 | < 10 | < 1 | 0.35 | 10 | 0.13 | 435 |
| M706499 | 205 | 294 | < 5 | < 0.2 | 0.74 | < 2 | 100 | < 0.5 | < 2 | 0.90 | < 0.5 | 3 | 111 | 15 | 2.10 | < 10 | < 1 | 0.38 | 10 | 0.12 | 360 |
| M706500 | 205 | 294 | < 5 | < 0.2 | 0.79 | < 2 | 110 | < 0.5 | < 2 | 1.02 | < 0.5 | 2 | 103 | 5 | 1.80 | < 10 | < 1 | 0.34 | < 10 | 0.19 | 280 |

CERTIFICATION:

Robert P. Barchan



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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

97-5

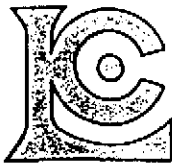
Page Number :4-B
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

Project: MUNRO
 Comments: ATTN: LEO KING

CERTIFICATE OF ANALYSIS A9748633

| SAMPLE | PREP | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|------|-----|-----|--------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | CODE | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706461 | 205 | 294 | < 1 | 0.01 | 2 | 230 | < 2 | < 2 | < 1 | 78 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
| M706462 | 205 | 294 | < 1 | 0.01 | 2 | 220 | 4 | < 2 | < 1 | 67 | < 0.01 | < 10 | < 10 | 2 | < 10 | 10 |
| M706463 | 205 | 294 | 3 | 0.01 | 2 | 190 | < 2 | < 2 | < 1 | 72 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
| M706464 | 205 | 294 | 11 | 0.01 | 2 | 200 | < 2 | < 2 | < 1 | 64 | < 0.01 | < 10 | < 10 | 3 | < 10 | 8 |
| M706465 | 205 | 294 | 1 | 0.04 | 2 | 210 | < 2 | 2 | < 1 | 52 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706466 | 205 | 294 | 2 | 0.03 | 1 | 210 | < 2 | < 2 | 1 | 50 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706467 | 205 | 294 | 5 | 0.03 | 1 | 190 | < 2 | < 2 | < 1 | 41 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706468 | 205 | 294 | 3 | 0.01 | 1 | 210 | < 2 | < 2 | < 1 | 117 | < 0.01 | < 10 | < 10 | 6 | < 10 | 16 |
| M706469 | 205 | 294 | 34 | 0.02 | 2 | 250 | 2 | < 2 | < 1 | 83 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706470 | 205 | 294 | 10 | < 0.01 | 1 | 210 | < 2 | < 2 | < 1 | 72 | < 0.01 | < 10 | < 10 | 1 | < 10 | 10 |
| M706471 | 205 | 294 | 19 | < 0.01 | 2 | 190 | < 2 | < 2 | < 1 | 71 | < 0.01 | < 10 | < 10 | 2 | < 10 | 12 |
| M706472 | 205 | 294 | 3 | 0.03 | 2 | 210 | 2 | < 2 | 1 | 126 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706473 | 205 | 294 | 4 | 0.04 | 2 | 210 | < 2 | < 2 | 1 | 113 | < 0.01 | < 10 | < 10 | 10 | < 10 | 28 |
| M706474 | 205 | 294 | 5 | 0.03 | 1 | 200 | < 2 | < 2 | 1 | 70 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706475 | 205 | 294 | 6 | 0.03 | 1 | 220 | < 2 | < 2 | < 1 | 83 | < 0.01 | < 10 | < 10 | 6 | < 10 | 14 |
| M706476 | 205 | 294 | 24 | 0.03 | 2 | 240 | 2 | < 2 | 1 | 112 | < 0.01 | < 10 | < 10 | 7 | < 10 | 26 |
| M706477 | 205 | 294 | 5 | 0.03 | 2 | 230 | 2 | < 2 | 1 | 92 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706478 | 205 | 294 | < 1 | 0.03 | 1 | 200 | < 2 | < 2 | 1 | 71 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706479 | 205 | 294 | < 1 | 0.03 | 2 | 220 | 2 | < 2 | 1 | 143 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706480 | 205 | 294 | < 1 | 0.02 | 2 | 220 | < 2 | < 2 | < 1 | 53 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706481 | 205 | 294 | 16 | 0.02 | 1 | 230 | 2 | < 2 | 1 | 164 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706482 | 205 | 294 | 1 | 0.03 | 2 | 230 | 2 | < 2 | 1 | 79 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706483 | 205 | 294 | 11 | 0.03 | 2 | 240 | < 2 | < 2 | 1 | 111 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706484 | 205 | 294 | < 1 | 0.04 | 3 | 230 | < 2 | < 2 | 1 | 73 | 0.01 | < 10 | < 10 | 12 | < 10 | 28 |
| M706485 | 205 | 294 | 1 | 0.04 | 2 | 210 | < 2 | < 2 | 1 | 116 | 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706486 | 205 | 294 | 3 | 0.04 | 2 | 220 | < 2 | < 2 | 1 | 57 | 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706487 | 205 | 294 | 2 | 0.03 | 2 | 220 | < 2 | < 2 | < 1 | 65 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706488 | 205 | 294 | 1 | 0.03 | 2 | 220 | 10 | < 2 | 1 | 67 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
| M706489 | 205 | 294 | 4 | 0.04 | 2 | 230 | < 2 | < 2 | 1 | 45 | 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706490 | 205 | 294 | 14 | 0.01 | 1 | 260 | < 2 | < 2 | < 1 | 42 | < 0.01 | < 10 | < 10 | 2 | < 10 | 6 |
| M706491 | 205 | 294 | 1 | 0.03 | 3 | 220 | < 2 | < 2 | 1 | 51 | < 0.01 | < 10 | < 10 | 7 | < 10 | 14 |
| M706492 | 205 | 294 | < 1 | 0.02 | 2 | 230 | 2 | < 2 | < 1 | 139 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706493 | 205 | 294 | 3 | 0.01 | 2 | 200 | < 2 | < 2 | < 1 | 79 | < 0.01 | < 10 | 10 | 5 | < 10 | 12 |
| M706494 | 205 | 294 | 10 | < 0.01 | 2 | 100 | < 2 | < 2 | < 1 | 20 | < 0.01 | < 10 | 30 | 1 | < 10 | 36 |
| M706495 | 205 | 294 | 2 | 0.03 | 2 | 200 | 2 | < 2 | 1 | 107 | < 0.01 | < 10 | < 10 | 7 | < 10 | 28 |
| M706496 | 205 | 294 | < 1 | 0.02 | 1 | 250 | 2 | < 2 | 1 | 181 | < 0.01 | < 10 | < 10 | 8 | < 10 | 26 |
| M706497 | 205 | 294 | 3 | 0.01 | 2 | 230 | 4 | < 2 | < 1 | 142 | < 0.01 | < 10 | < 10 | 5 | < 10 | 12 |
| M706498 | 205 | 294 | < 1 | 0.03 | 1 | 230 | < 2 | < 2 | 1 | 89 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706499 | 205 | 294 | 2 | 0.04 | 2 | 230 | < 2 | < 2 | 1 | 87 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706500 | 205 | 294 | 3 | 0.04 | 2 | 230 | 2 | 2 | 1 | 119 | 0.01 | < 10 | < 10 | 10 | < 10 | 24 |

CERTIFICATION: _____



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To: ALMADEN RESOURCES CORP.

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 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

27-5

Page Number :5-A
 Total Pages :7
 Certificate Date:06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS A9748633

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706501 | 205 | 294 | < 5 | < 0.2 | 1.03 | < 2 | 130 | < 0.5 | < 2 | 0.97 | < 0.5 | 2 | 107 | 5 | 1.43 | < 10 | < 1 | 0.43 | < 10 | 0.19 | 350 |
| M706502 | 205 | 294 | < 5 | < 0.2 | 0.90 | < 2 | 240 | < 0.5 | < 2 | 0.84 | < 0.5 | 2 | 120 | 12 | 1.77 | < 10 | < 1 | 0.42 | < 10 | 0.17 | 360 |
| M706503 | 205 | 294 | < 5 | < 0.2 | 0.95 | < 2 | 110 | < 0.5 | < 2 | 0.79 | < 0.5 | 3 | 76 | 20 | 2.23 | < 10 | < 1 | 0.46 | < 10 | 0.12 | 305 |
| M706504 | 205 | 294 | < 5 | < 0.2 | 0.92 | < 2 | 130 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 105 | 9 | 1.96 | < 10 | < 1 | 0.44 | < 10 | 0.14 | 210 |
| M706505 | 205 | 294 | < 5 | < 0.2 | 0.94 | < 2 | 150 | < 0.5 | < 2 | 0.59 | < 0.5 | 3 | 78 | 8 | 2.31 | < 10 | < 1 | 0.44 | < 10 | 0.15 | 175 |
| M706506 | 205 | 294 | < 5 | < 0.2 | 0.86 | < 2 | 110 | < 0.5 | < 2 | 0.54 | < 0.5 | 3 | 94 | 12 | 1.90 | < 10 | < 1 | 0.38 | < 10 | 0.16 | 160 |
| M706507 | 205 | 294 | < 5 | < 0.2 | 0.95 | < 2 | 120 | < 0.5 | < 2 | 0.93 | < 0.5 | 3 | 94 | 11 | 1.84 | < 10 | < 1 | 0.40 | < 10 | 0.19 | 190 |
| M706508 | 205 | 294 | < 5 | < 0.2 | 1.05 | < 2 | 300 | < 0.5 | < 2 | 0.55 | < 0.5 | 3 | 124 | 7 | 1.86 | < 10 | < 1 | 0.44 | < 10 | 0.22 | 180 |
| M706509 | 205 | 294 | < 5 | < 0.2 | 0.95 | < 2 | 150 | < 0.5 | < 2 | 0.47 | < 0.5 | 2 | 95 | 5 | 1.69 | < 10 | < 1 | 0.40 | < 10 | 0.25 | 205 |
| M706510 | 205 | 294 | < 5 | < 0.2 | 1.01 | < 2 | 130 | < 0.5 | < 2 | 0.61 | < 0.5 | 3 | 124 | 4 | 2.24 | < 10 | < 1 | 0.45 | < 10 | 0.17 | 210 |
| M706511 | 205 | 294 | < 5 | < 0.2 | 1.03 | < 2 | 200 | < 0.5 | < 2 | 0.94 | < 0.5 | 2 | 93 | 13 | 1.44 | < 10 | < 1 | 0.40 | < 10 | 0.18 | 255 |
| M706512 | 205 | 294 | < 5 | < 0.2 | 1.13 | < 2 | 360 | < 0.5 | < 2 | 0.91 | < 0.5 | 2 | 100 | 13 | 1.49 | < 10 | < 1 | 0.37 | < 10 | 0.20 | 235 |
| M706513 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 90 | < 0.5 | < 2 | 1.22 | < 0.5 | 2 | 97 | 6 | 1.68 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 275 |
| M706514 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 70 | < 0.5 | < 2 | 0.76 | < 0.5 | 2 | 90 | 7 | 1.73 | < 10 | < 1 | 0.27 | < 10 | 0.13 | 210 |
| M706515 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 110 | < 0.5 | < 2 | 0.78 | < 0.5 | 2 | 76 | 6 | 2.14 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 205 |
| M706516 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 100 | < 0.5 | < 2 | 0.79 | < 0.5 | 2 | 89 | 5 | 1.78 | < 10 | < 1 | 0.32 | < 10 | 0.16 | 285 |
| M706517 | 205 | 294 | < 5 | < 0.2 | 0.51 | < 2 | 90 | < 0.5 | < 2 | 0.64 | < 0.5 | 1 | 67 | 5 | 1.77 | < 10 | < 1 | 0.22 | < 10 | 0.15 | 225 |
| M706518 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 80 | < 0.5 | < 2 | 1.07 | < 0.5 | 3 | 97 | 7 | 1.83 | < 10 | < 1 | 0.31 | < 10 | 0.12 | 450 |
| M706519 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 90 | < 0.5 | < 2 | 0.49 | < 0.5 | 2 | 81 | 45 | 1.97 | < 10 | < 1 | 0.29 | < 10 | 0.18 | 150 |
| M706520 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 100 | < 0.5 | < 2 | 0.80 | < 0.5 | 3 | 116 | 8 | 1.61 | < 10 | < 1 | 0.30 | < 10 | 0.17 | 320 |
| M706521 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 110 | < 0.5 | < 2 | 0.93 | < 0.5 | 1 | 71 | 7 | 1.37 | < 10 | < 1 | 0.29 | < 10 | 0.17 | 335 |
| M706522 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 100 | < 0.5 | < 2 | 0.85 | < 0.5 | 3 | 84 | 3 | 2.29 | < 10 | < 1 | 0.29 | < 10 | 0.15 | 245 |
| M706523 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 110 | < 0.5 | < 2 | 0.53 | < 0.5 | 1 | 67 | 15 | 1.36 | < 10 | < 1 | 0.25 | < 10 | 0.18 | 170 |
| M706524 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 100 | < 0.5 | < 2 | 0.50 | < 0.5 | 2 | 73 | 4 | 1.82 | < 10 | < 1 | 0.24 | < 10 | 0.18 | 180 |
| M706525 | 205 | 294 | < 5 | < 0.2 | 0.72 | < 4 | 90 | < 0.5 | < 2 | 0.70 | < 0.5 | 2 | 64 | 10 | 1.50 | < 10 | < 1 | 0.29 | < 10 | 0.19 | 235 |
| M706526 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 150 | < 0.5 | < 2 | 0.98 | < 0.5 | 2 | 93 | 5 | 1.92 | < 10 | < 1 | 0.30 | < 10 | 0.08 | 455 |
| M706527 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 110 | < 0.5 | < 2 | 0.92 | < 0.5 | 1 | 64 | 14 | 1.34 | < 10 | < 1 | 0.34 | < 10 | 0.13 | 465 |
| M706528 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 110 | < 0.5 | < 2 | 1.31 | < 0.5 | 1 | 82 | 32 | 1.83 | < 10 | < 1 | 0.29 | < 10 | 0.07 | 620 |
| M706529 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 80 | < 0.5 | < 2 | 1.03 | < 0.5 | 1 | 76 | 5 | 1.40 | < 10 | < 1 | 0.29 | < 10 | 0.13 | 390 |
| M706530 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 60 | < 0.5 | < 2 | 1.01 | < 0.5 | 1 | 80 | 7 | 1.20 | < 10 | < 1 | 0.25 | < 10 | 0.13 | 315 |
| M706531 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 80 | < 0.5 | < 2 | 0.81 | < 0.5 | 1 | 72 | 20 | 1.37 | < 10 | < 1 | 0.26 | < 10 | 0.13 | 245 |
| M706532 | 205 | 294 | < 5 | < 0.2 | 0.57 | < 2 | 110 | < 0.5 | < 2 | 0.77 | < 0.5 | 1 | 87 | 9 | 1.45 | < 10 | < 1 | 0.23 | < 10 | 0.18 | 220 |
| M706533 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 70 | < 0.5 | < 2 | 0.78 | < 0.5 | 2 | 74 | 4 | 1.44 | < 10 | < 1 | 0.23 | < 10 | 0.16 | 190 |
| M706534 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 80 | < 0.5 | < 2 | 0.71 | < 0.5 | 1 | 85 | 5 | 1.47 | < 10 | < 1 | 0.23 | < 10 | 0.21 | 185 |
| M706535 | 205 | 294 | < 5 | < 0.2 | 0.72 | < 2 | 90 | < 0.5 | < 2 | 0.82 | < 0.5 | 2 | 68 | 4 | 1.62 | < 10 | < 1 | 0.27 | < 10 | 0.19 | 175 |
| M706536 | 205 | 294 | < 5 | < 0.2 | 0.85 | < 2 | 80 | < 0.5 | < 2 | 0.95 | < 0.5 | 2 | 100 | 4 | 1.36 | < 10 | < 1 | 0.28 | < 10 | 0.21 | 185 |
| M706537 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 90 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 65 | 8 | 1.66 | < 10 | < 1 | 0.26 | < 10 | 0.21 | 180 |
| M706538 | 205 | 294 | < 5 | < 0.2 | 0.71 | < 2 | 170 | < 0.5 | < 2 | 0.70 | < 0.5 | 2 | 98 | 4 | 1.89 | < 10 | < 1 | 0.28 | < 10 | 0.19 | 155 |
| M706539 | 205 | 294 | < 5 | < 0.2 | 0.83 | < 2 | 110 | < 0.5 | < 2 | 0.68 | < 0.5 | 3 | 78 | 5 | 2.09 | < 10 | < 1 | 0.32 | < 10 | 0.26 | 215 |
| M706540 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 90 | < 0.5 | < 2 | 0.54 | < 0.5 | 1 | 72 | 3 | 1.16 | < 10 | < 1 | 0.22 | < 10 | 0.20 | 170 |

CERTIFICATION:



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97-5

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 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. : 19748633
 P.O. Number :
 Account : PFM

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|-----------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706501 | 205 | 294 | < 1 | 0.07 | 2 | 220 | 2 | < 2 | 1 | 107 | 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706502 | 205 | 294 | 1 | 0.06 | 3 | 250 | 2 | < 2 | 1 | 85 | 0.01 | < 10 | < 10 | 11 | < 10 | 24 |
| M706503 | 205 | 294 | 3 | 0.04 | 1 | 230 | 6 | < 2 | 1 | 95 | < 0.01 | < 10 | < 10 | 6 | < 10 | 34 |
| M706504 | 205 | 294 | 2 | 0.05 | 2 | 240 | 2 | < 2 | 1 | 71 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |
| M706505 | 205 | 294 | 1 | 0.05 | 1 | 240 | 2 | < 2 | 1 | 57 | 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706506 | 205 | 294 | 1 | 0.05 | 2 | 210 | 6 | < 2 | 1 | 69 | 0.01 | < 10 | < 10 | 9 | < 10 | 30 |
| M706507 | 205 | 294 | < 1 | 0.05 | 2 | 240 | < 2 | < 2 | 1 | 101 | 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
| M706508 | 205 | 294 | 6 | 0.06 | 3 | 250 | 4 | < 2 | 1 | 84 | 0.01 | < 10 | < 10 | 13 | < 10 | 30 |
| M706509 | 205 | 294 | < 1 | 0.08 | 2 | 230 | 2 | < 2 | 2 | 72 | 0.03 | < 10 | < 10 | 14 | < 10 | 34 |
| M706510 | 205 | 294 | 1 | 0.05 | 3 | 230 | 2 | < 2 | 1 | 85 | 0.01 | < 10 | < 10 | 10 | < 10 | 30 |
| M706511 | 205 | 294 | < 1 | 0.05 | 1 | 210 | < 2 | < 2 | 1 | 141 | 0.01 | < 10 | < 10 | 11 | < 10 | 28 |
| M706512 | 205 | 294 | < 1 | 0.06 | 2 | 230 | 2 | < 2 | 1 | 201 | < 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
| M706513 | 205 | 294 | 1 | 0.04 | 1 | 190 | 2 | < 2 | 1 | 141 | < 0.01 | < 10 | < 10 | 7 | < 10 | 22 |
| M706514 | 205 | 294 | < 1 | 0.03 | 1 | 210 | 4 | < 2 | 1 | 90 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706515 | 205 | 294 | 2 | 0.03 | 1 | 190 | 2 | < 2 | 1 | 86 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706516 | 205 | 294 | 2 | 0.03 | 2 | 220 | 2 | < 2 | 1 | 82 | 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706517 | 205 | 294 | 3 | 0.04 | 2 | 180 | 2 | < 2 | 1 | 72 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706518 | 205 | 294 | 3 | 0.03 | 1 | 240 | < 2 | < 2 | 1 | 102 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706519 | 205 | 294 | 3 | 0.04 | 1 | 220 | 2 | < 2 | 1 | 75 | < 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706520 | 205 | 294 | 2 | 0.05 | 2 | 250 | < 2 | < 2 | 1 | 83 | < 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706521 | 205 | 294 | < 1 | 0.04 | 1 | 210 | < 2 | < 2 | 1 | 138 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706522 | 205 | 294 | 1 | 0.02 | 1 | 280 | < 2 | < 2 | 1 | 153 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706523 | 205 | 294 | < 1 | 0.04 | 1 | 190 | 4 | < 2 | 1 | 111 | < 0.01 | < 10 | < 10 | 9 | < 10 | 28 |
| M706524 | 205 | 294 | < 1 | 0.03 | 2 | 210 | 2 | < 2 | 1 | 101 | 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706525 | 205 | 294 | 4 | 0.03 | 1 | 220 | 4 | < 2 | 1 | 152 | < 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706526 | 205 | 294 | < 1 | 0.02 | 2 | 230 | 2 | < 2 | < 1 | 146 | < 0.01 | < 10 | < 10 | 4 | < 10 | 14 |
| M706527 | 205 | 294 | < 1 | 0.03 | 1 | 230 | 4 | < 2 | 1 | 130 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706528 | 205 | 294 | 9 | 0.01 | 2 | 210 | 6 | < 2 | < 1 | 207 | < 0.01 | < 10 | < 10 | 3 | < 10 | 12 |
| M706529 | 205 | 294 | 1 | 0.03 | 1 | 210 | < 2 | < 2 | 1 | 154 | < 0.01 | < 10 | < 10 | 8 | < 10 | 22 |
| M706530 | 205 | 294 | < 1 | 0.02 | 1 | 210 | 2 | < 2 | 1 | 194 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
| M706531 | 205 | 294 | 1 | 0.04 | 2 | 200 | 4 | < 2 | 1 | 113 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706532 | 205 | 294 | < 1 | 0.03 | 2 | 210 | 6 | < 2 | 1 | 121 | 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706533 | 205 | 294 | 4 | 0.04 | 2 | 190 | 2 | < 2 | 1 | 119 | < 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706534 | 205 | 294 | 3 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 124 | 0.01 | < 10 | < 10 | 11 | < 10 | 26 |
| M706535 | 205 | 294 | 4 | 0.03 | 1 | 210 | 2 | < 2 | 1 | 139 | < 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706536 | 205 | 294 | < 1 | 0.03 | 2 | 190 | 2 | < 2 | 1 | 198 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706537 | 205 | 294 | 4 | 0.03 | 1 | 200 | 4 | < 2 | 1 | 124 | 0.01 | < 10 | < 10 | 11 | < 10 | 28 |
| M706538 | 205 | 294 | 4 | 0.03 | 2 | 220 | < 2 | < 2 | 1 | 118 | 0.01 | < 10 | < 10 | 10 | < 10 | 22 |
| M706539 | 205 | 294 | 4 | 0.04 | 2 | 260 | < 2 | < 2 | 2 | 122 | 0.01 | < 10 | < 10 | 14 | < 10 | 32 |
| M706540 | 205 | 294 | < 1 | 0.03 | 1 | 190 | 2 | < 2 | 1 | 107 | 0.01 | < 10 | < 10 | 11 | < 10 | 26 |

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 VANCOUVER, BC
 V7Y 1B6

27-5

Page Number : 6-A
 Total Pages : 7
 Certificate Date: 06-NOV-97
 Invoice No. : I9748633
 P.O. Number :
 Account : PFM

Project : MUNRO
 Comments : ATTN: LEO KING

CERTIFICATE OF ANALYSIS A9748633

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | | | FA+AA | | | | | | | | | | | | | | | | | | |
| M706541 | 205 | 294 | < 5 | < 0.2 | 0.81 | < 2 | 100 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 99 | 4 | 1.63 | < 10 | < 1 | 0.32 | < 10 | 0.24 | 195 |
| M706542 | 205 | 294 | < 5 | < 0.2 | 0.78 | < 2 | 170 | < 0.5 | < 2 | 0.72 | < 0.5 | 2 | 90 | 7 | 1.51 | < 10 | < 1 | 0.29 | < 10 | 0.21 | 180 |
| M706543 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 100 | < 0.5 | < 2 | 0.62 | < 0.5 | 2 | 92 | 10 | 1.50 | < 10 | < 1 | 0.27 | < 10 | 0.23 | 190 |
| M706544 | 205 | 294 | < 5 | < 0.2 | 0.72 | < 2 | 110 | < 0.5 | < 2 | 0.66 | < 0.5 | 2 | 107 | 8 | 1.50 | < 10 | < 1 | 0.27 | < 10 | 0.22 | 180 |
| M706545 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 130 | < 0.5 | < 2 | 0.60 | < 0.5 | 2 | 88 | 9 | 1.69 | < 10 | < 1 | 0.26 | < 10 | 0.23 | 200 |
| M706546 | 205 | 294 | < 5 | 0.2 | 0.69 | < 2 | 90 | 0.5 | 10 | 0.76 | < 0.5 | 2 | 93 | 119 | 1.64 | < 10 | < 1 | 0.31 | < 10 | 0.17 | 245 |
| M706547 | 205 | 294 | < 5 | < 0.2 | 0.53 | < 2 | 100 | < 0.5 | < 2 | 1.10 | < 0.5 | 1 | 82 | 12 | 1.20 | < 10 | < 1 | 0.26 | < 10 | 0.11 | 465 |
| M706548 | 205 | 294 | < 5 | < 0.2 | 0.72 | < 2 | 80 | < 0.5 | < 2 | 0.94 | < 0.5 | 2 | 73 | 4 | 1.31 | < 10 | < 1 | 0.25 | < 10 | 0.18 | 235 |
| M706549 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 110 | < 0.5 | < 2 | 0.68 | < 0.5 | 2 | 100 | 7 | 1.57 | < 10 | < 1 | 0.29 | < 10 | 0.18 | 220 |
| M706550 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 150 | < 0.5 | < 2 | 0.91 | < 0.5 | 1 | 91 | 5 | 1.24 | < 10 | < 1 | 0.27 | < 10 | 0.18 | 345 |
| M706551 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 100 | < 0.5 | < 2 | 0.86 | < 0.5 | 2 | 97 | 9 | 1.69 | < 10 | < 1 | 0.29 | < 10 | 0.14 | 245 |
| M706552 | 205 | 294 | < 5 | < 0.2 | 0.74 | < 2 | 80 | < 0.5 | < 2 | 1.18 | < 0.5 | 2 | 96 | 5 | 2.03 | < 10 | < 1 | 0.29 | < 10 | 0.14 | 265 |
| M706553 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 90 | < 0.5 | < 2 | 1.01 | < 0.5 | 2 | 81 | 6 | 1.98 | < 10 | < 1 | 0.30 | < 10 | 0.12 | 370 |
| M706554 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 130 | < 0.5 | < 2 | 0.73 | < 0.5 | 2 | 97 | 6 | 1.41 | < 10 | < 1 | 0.27 | < 10 | 0.22 | 260 |
| M706555 | 205 | 294 | < 5 | < 0.2 | 0.76 | < 2 | 100 | < 0.5 | < 2 | 0.84 | < 0.5 | 1 | 105 | 7 | 1.35 | < 10 | < 1 | 0.26 | < 10 | 0.21 | 235 |
| M706556 | 205 | 294 | < 5 | < 0.2 | 0.83 | < 2 | 90 | < 0.5 | < 2 | 0.78 | < 0.5 | 2 | 120 | 7 | 1.45 | < 10 | < 1 | 0.31 | < 10 | 0.20 | 220 |
| M706557 | 205 | 294 | < 5 | < 0.2 | 0.76 | < 2 | 100 | < 0.5 | < 2 | 0.85 | < 0.5 | 3 | 98 | 5 | 1.60 | < 10 | < 1 | 0.28 | < 10 | 0.18 | 240 |
| M706558 | 205 | 294 | < 5 | < 0.2 | 0.94 | < 2 | 100 | 0.5 | < 2 | 1.21 | < 0.5 | 2 | 106 | 9 | 1.32 | < 10 | < 1 | 0.27 | < 10 | 0.19 | 315 |
| M706559 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 60 | < 0.5 | < 2 | 0.94 | < 0.5 | 1 | 83 | 9 | 1.23 | < 10 | < 1 | 0.25 | < 10 | 0.12 | 395 |
| M706560 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 80 | < 0.5 | < 2 | 1.27 | < 0.5 | 1 | 87 | 21 | 1.25 | < 10 | < 1 | 0.25 | < 10 | 0.12 | 475 |
| M706561 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 90 | < 0.5 | < 2 | 0.87 | < 0.5 | 2 | 77 | 11 | 1.35 | < 10 | < 1 | 0.21 | < 10 | 0.19 | 260 |
| M706562 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 130 | < 0.5 | < 2 | 1.04 | < 0.5 | 2 | 88 | 6 | 1.59 | < 10 | < 1 | 0.26 | < 10 | 0.16 | 260 |
| M706563 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 100 | < 0.5 | < 2 | 0.79 | < 0.5 | 2 | 86 | 4 | 1.92 | < 10 | < 1 | 0.29 | < 10 | 0.10 | 170 |
| M706564 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 0.81 | < 0.5 | 1 | 97 | 3 | 2.08 | < 10 | < 1 | 0.29 | < 10 | 0.09 | 195 |
| M706565 | 205 | 294 | < 5 | < 0.2 | 0.79 | < 2 | 70 | < 0.5 | < 2 | 0.90 | < 0.5 | 2 | 81 | 7 | 2.08 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 225 |
| M706566 | 205 | 294 | < 5 | < 0.2 | 0.75 | < 2 | 80 | < 0.5 | < 2 | 1.00 | < 0.5 | 1 | 80 | 4 | 1.66 | < 10 | < 1 | 0.28 | < 10 | 0.13 | 195 |
| M706567 | 205 | 294 | < 5 | < 0.2 | 0.54 | < 2 | 80 | < 0.5 | < 2 | 1.06 | < 0.5 | 2 | 84 | 7 | 2.32 | < 10 | < 1 | 0.29 | < 10 | 0.06 | 280 |
| M706568 | 205 | 294 | < 5 | < 0.2 | 0.56 | < 2 | 70 | < 0.5 | < 2 | 0.80 | < 0.5 | 1 | 78 | 11 | 1.75 | < 10 | < 1 | 0.26 | < 10 | 0.09 | 190 |
| M706569 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 50 | < 0.5 | < 2 | 0.99 | < 0.5 | 3 | 86 | 5 | 2.17 | < 10 | < 1 | 0.22 | < 10 | 0.14 | 210 |
| M706570 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 90 | < 0.5 | < 2 | 0.49 | < 0.5 | 1 | 94 | 5 | 1.69 | < 10 | < 1 | 0.27 | < 10 | 0.14 | 145 |
| M706571 | 205 | 294 | < 5 | < 0.2 | 0.45 | < 2 | 50 | < 0.5 | < 2 | 0.59 | < 0.5 | 1 | 52 | 7 | 1.50 | < 10 | < 1 | 0.20 | < 10 | 0.10 | 145 |
| M706572 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 60 | < 0.5 | < 2 | 0.63 | < 0.5 | 1 | 89 | 13 | 1.56 | < 10 | < 1 | 0.27 | < 10 | 0.11 | 110 |
| M706573 | 205 | 294 | < 5 | < 0.2 | 0.50 | < 2 | 70 | < 0.5 | < 2 | 0.49 | < 0.5 | 2 | 79 | 7 | 1.62 | < 10 | < 1 | 0.21 | < 10 | 0.17 | 125 |
| M706574 | 205 | 294 | < 5 | < 0.2 | 0.52 | < 2 | 50 | < 0.5 | < 2 | 0.91 | < 0.5 | 1 | 89 | 7 | 1.81 | < 10 | < 1 | 0.22 | < 10 | 0.12 | 130 |
| M706575 | 205 | 294 | < 5 | < 0.2 | 0.58 | < 2 | 90 | < 0.5 | < 2 | 0.55 | < 0.5 | 2 | 86 | 5 | 1.43 | < 10 | < 1 | 0.24 | < 10 | 0.20 | 190 |
| M706576 | 205 | 294 | < 5 | < 0.2 | 0.66 | < 2 | 100 | < 0.5 | < 2 | 0.60 | < 0.5 | 1 | 106 | 31 | 1.48 | < 10 | < 1 | 0.29 | < 10 | 0.19 | 190 |
| M706577 | 205 | 294 | < 5 | < 0.2 | 0.64 | < 2 | 80 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 94 | 6 | 1.41 | < 10 | < 1 | 0.26 | < 10 | 0.19 | 170 |
| M706578 | 205 | 294 | < 5 | < 0.2 | 0.60 | < 2 | 70 | < 0.5 | < 2 | 0.49 | < 0.5 | 2 | 79 | 15 | 1.56 | < 10 | < 1 | 0.26 | < 10 | 0.14 | 125 |
| M706579 | 205 | 294 | < 5 | < 0.2 | 0.67 | < 2 | 70 | < 0.5 | < 2 | 0.76 | < 0.5 | 2 | 95 | 4 | 1.56 | < 10 | < 1 | 0.27 | < 10 | 0.16 | 165 |
| M706580 | 205 | 294 | < 5 | < 0.2 | 0.63 | < 2 | 90 | < 0.5 | < 2 | 0.52 | < 0.5 | 3 | 95 | 3 | 2.02 | < 10 | < 1 | 0.30 | < 10 | 0.15 | 140 |

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To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
 VANCOUVER, BC
 V7Y 1B6

Project: MUNRO
 Comments: ATTN: LEO KING

97-5

Page Number :6-B
 Total Pages :7
 Certificate Date: 06-NOV-97
 Invoice No. :19748633
 P.O. Number :
 Account :PFM

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | CODE | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706541 | 205 | 294 | 14 | 0.04 | 1 | 230 | 2 | < 2 | 1 | 99 | 0.01 | < 10 | < 10 | 13 | < 10 | 30 |
| M706542 | 205 | 294 | 24 | 0.04 | 2 | 210 | 2 | < 2 | 1 | 104 | 0.01 | < 10 | < 10 | 11 | < 10 | 28 |
| M706543 | 205 | 294 | 5 | 0.04 | 2 | 210 | 2 | < 2 | 1 | 103 | 0.01 | < 10 | < 10 | 12 | < 10 | 30 |
| M706544 | 205 | 294 | < 1 | 0.05 | 2 | 230 | 2 | < 2 | 1 | 92 | 0.01 | < 10 | < 10 | 12 | < 10 | 28 |
| M706545 | 205 | 294 | 3 | 0.04 | 2 | 230 | < 2 | < 2 | 1 | 97 | 0.01 | < 10 | < 10 | 12 | < 10 | 30 |
| M706546 | 205 | 294 | 3 | 0.03 | 1 | 240 | 2 | < 2 | 1 | 116 | < 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706547 | 205 | 294 | 4 | 0.04 | 1 | 210 | < 2 | < 2 | < 1 | 91 | < 0.01 | < 10 | < 10 | 6 | < 10 | 16 |
| M706548 | 205 | 294 | 3 | 0.03 | 2 | 190 | 2 | < 2 | 1 | 161 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
| M706549 | 205 | 294 | 9 | 0.04 | 1 | 210 | 2 | < 2 | 1 | 71 | 0.01 | < 10 | < 10 | 10 | < 10 | 30 |
| M706550 | 205 | 294 | 2 | 0.05 | 2 | 190 | < 2 | < 2 | 1 | 88 | < 0.01 | < 10 | < 10 | 10 | < 10 | 24 |
| M706551 | 205 | 294 | 3 | 0.04 | 2 | 210 | 6 | < 2 | 1 | 110 | < 0.01 | < 10 | < 10 | 8 | < 10 | 18 |
| M706552 | 205 | 294 | 42 | 0.03 | 2 | 200 | 4 | < 2 | 1 | 140 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
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| M706555 | 205 | 294 | 1 | 0.04 | 1 | 200 | 4 | < 2 | 1 | 158 | 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
| M706556 | 205 | 294 | 1 | 0.05 | 2 | 200 | 4 | < 2 | 1 | 135 | 0.01 | < 10 | < 10 | 11 | < 10 | 30 |
| M706557 | 205 | 294 | 2 | 0.04 | 2 | 200 | 4 | < 2 | 1 | 135 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706558 | 205 | 294 | 1 | 0.04 | 2 | 230 | 6 | < 2 | 1 | 252 | < 0.01 | < 10 | < 10 | 11 | < 10 | 28 |
| M706559 | 205 | 294 | 3 | 0.03 | 1 | 200 | 2 | < 2 | 1 | 119 | < 0.01 | < 10 | < 10 | 6 | < 10 | 18 |
| M706560 | 205 | 294 | 1 | 0.03 | 1 | 200 | < 2 | < 2 | 1 | 173 | < 0.01 | < 10 | < 10 | 7 | < 10 | 18 |
| M706561 | 205 | 294 | 3 | 0.03 | 2 | 190 | 4 | < 2 | 1 | 202 | < 0.01 | < 10 | < 10 | 10 | < 10 | 28 |
| M706562 | 205 | 294 | < 1 | 0.03 | 1 | 200 | < 2 | < 2 | 1 | 161 | < 0.01 | < 10 | < 10 | 9 | < 10 | 30 |
| M706563 | 205 | 294 | 1 | 0.03 | 2 | 220 | 2 | < 2 | 1 | 107 | < 0.01 | < 10 | < 10 | 7 | < 10 | 42 |
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| M706565 | 205 | 294 | 12 | 0.01 | 1 | 220 | 4 | < 2 | 1 | 205 | < 0.01 | < 10 | < 10 | 6 | < 10 | 20 |
| M706566 | 205 | 294 | 4 | 0.02 | 2 | 220 | 2 | < 2 | < 1 | 194 | < 0.01 | < 10 | < 10 | 6 | < 10 | 22 |
| M706567 | 205 | 294 | 4 | 0.03 | 1 | 210 | 2 | < 2 | < 1 | 109 | < 0.01 | < 10 | < 10 | 4 | < 10 | 12 |
| M706568 | 205 | 294 | 5 | 0.03 | 1 | 200 | 2 | < 2 | < 1 | 105 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706569 | 205 | 294 | 7 | 0.03 | 2 | 200 | 4 | < 2 | < 1 | 129 | < 0.01 | < 10 | < 10 | 7 | < 10 | 20 |
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| M706573 | 205 | 294 | 1 | 0.03 | 1 | 210 | 2 | < 2 | 1 | 63 | < 0.01 | < 10 | < 10 | 9 | < 10 | 24 |
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| M706575 | 205 | 294 | 1 | 0.04 | 1 | 200 | 2 | < 2 | 1 | 73 | 0.01 | < 10 | < 10 | 12 | < 10 | 32 |
| M706576 | 205 | 294 | 1 | 0.05 | 1 | 210 | 2 | < 2 | 1 | 74 | 0.01 | < 10 | < 10 | 12 | < 10 | 28 |
| M706577 | 205 | 294 | < 1 | 0.04 | 1 | 210 | 2 | < 2 | 1 | 68 | 0.01 | < 10 | < 10 | 12 | < 10 | 24 |
| M706578 | 205 | 294 | 1 | 0.04 | 2 | 200 | 2 | < 2 | 1 | 67 | < 0.01 | < 10 | < 10 | 8 | < 10 | 20 |
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| M706580 | 205 | 294 | 7 | 0.04 | 1 | 220 | 2 | < 2 | 1 | 59 | < 0.01 | < 10 | < 10 | 9 | < 10 | 22 |

CERTIFICATION:

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27-5

Page Number :7-A
Total Pages :7
Certificate Date: 06-NOV-97
Invoice No. :19748633
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS

A9748633

| SAMPLE | PREP CODE | | Au ppb | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K % | La ppm | Mg % | Mn ppm |
|---------|-----------|-----|--------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--------|
| | FA+AA | | | | | | | | | | | | | | | | | | | | |
| M706581 | 205 | 294 | < 5 | < 0.2 | 0.71 | 2 | 90 | < 0.5 | < 2 | 0.71 | < 0.5 | 2 | 99 | 20 | 1.77 | < 10 | < 1 | 0.37 | < 10 | 0.12 | 190 |
| M706582 | 205 | 294 | < 5 | < 0.2 | 0.73 | < 2 | 80 | < 0.5 | < 2 | 0.87 | < 0.5 | 1 | 141 | 16 | 1.56 | < 10 | < 1 | 0.36 | < 10 | 0.08 | 235 |
| M706583 | 205 | 294 | < 5 | 0.2 | 1.11 | < 2 | 130 | 0.5 | 2 | 1.64 | < 0.5 | 1 | 141 | 10 | 1.88 | < 10 | < 1 | 0.47 | < 10 | 0.10 | 330 |
| M706584 | 205 | 294 | < 5 | < 0.2 | 0.70 | < 2 | 50 | 0.5 | 6 | 1.77 | < 0.5 | 1 | 68 | 42 | 1.57 | < 10 | < 1 | 0.32 | < 10 | 0.07 | 230 |
| M706585 | 205 | 294 | < 5 | < 0.2 | 0.68 | < 2 | 70 | < 0.5 | < 2 | 1.10 | < 0.5 | 1 | 99 | 7 | 2.11 | < 10 | < 1 | 0.33 | < 10 | 0.06 | 170 |
| M706586 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 50 | 0.5 | < 2 | 0.91 | < 0.5 | 1 | 101 | 8 | 1.51 | < 10 | < 1 | 0.27 | < 10 | 0.07 | 160 |
| M706587 | 205 | 294 | < 5 | < 0.2 | 0.82 | < 2 | 70 | 0.5 | < 2 | 0.88 | < 0.5 | 1 | 113 | 5 | 1.46 | < 10 | < 1 | 0.32 | < 10 | 0.08 | 190 |
| M706588 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 50 | < 0.5 | < 2 | 1.05 | < 0.5 | 1 | 92 | 12 | 1.26 | < 10 | < 1 | 0.24 | < 10 | 0.10 | 250 |
| M706589 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 80 | < 0.5 | < 2 | 0.70 | < 0.5 | 1 | 115 | 5 | 1.43 | < 10 | < 1 | 0.29 | < 10 | 0.12 | 205 |
| M706590 | 205 | 294 | < 5 | < 0.2 | 0.62 | < 2 | 70 | < 0.5 | < 2 | 0.85 | < 0.5 | 1 | 95 | 5 | 1.66 | < 10 | < 1 | 0.32 | < 10 | 0.07 | 235 |
| M706591 | 205 | 294 | < 5 | < 0.2 | 0.65 | < 2 | 90 | < 0.5 | < 2 | 0.64 | < 0.5 | 1 | 115 | 5 | 1.42 | < 10 | < 1 | 0.31 | < 10 | 0.15 | 215 |
| M706592 | 205 | 294 | < 5 | < 0.2 | 0.87 | < 2 | 90 | 0.5 | < 2 | 0.93 | < 0.5 | 2 | 103 | 6 | 1.62 | < 10 | < 1 | 0.35 | < 10 | 0.13 | 205 |
| M706593 | 205 | 294 | < 5 | < 0.2 | 0.59 | < 2 | 100 | < 0.5 | < 2 | 0.54 | < 0.5 | 2 | 81 | 4 | 1.51 | < 10 | < 1 | 0.29 | < 10 | 0.18 | 185 |
| M706594 | 205 | 294 | < 5 | < 0.2 | 0.84 | < 2 | 110 | < 0.5 | < 2 | 0.60 | < 0.5 | 1 | 140 | 5 | 1.72 | < 10 | < 1 | 0.40 | < 10 | 0.17 | 180 |
| M706595 | 205 | 294 | < 5 | < 0.2 | 0.69 | < 2 | 90 | < 0.5 | < 2 | 0.93 | < 0.5 | 1 | 109 | 10 | 1.65 | < 10 | < 1 | 0.33 | < 10 | 0.13 | 220 |
| M706596 | 205 | 294 | < 5 | < 0.2 | 0.61 | < 2 | 80 | < 0.5 | < 2 | 0.86 | < 0.5 | 1 | 108 | 3 | 1.19 | < 10 | < 1 | 0.31 | < 10 | 0.06 | 205 |

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALMADEN RESOURCES CORP.

1420 - 700 W. GEORGIA ST., P.O. BOX 10071
VANCOUVER, BC
V7Y 1B6

Project: MUNRO
Comments: ATTN: LEO KING

97-5

Page Number :7-B
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Certificate Date: 06-NOV-97
Invoice No. :19748633
P.O. Number :
Account :PFM

CERTIFICATE OF ANALYSIS

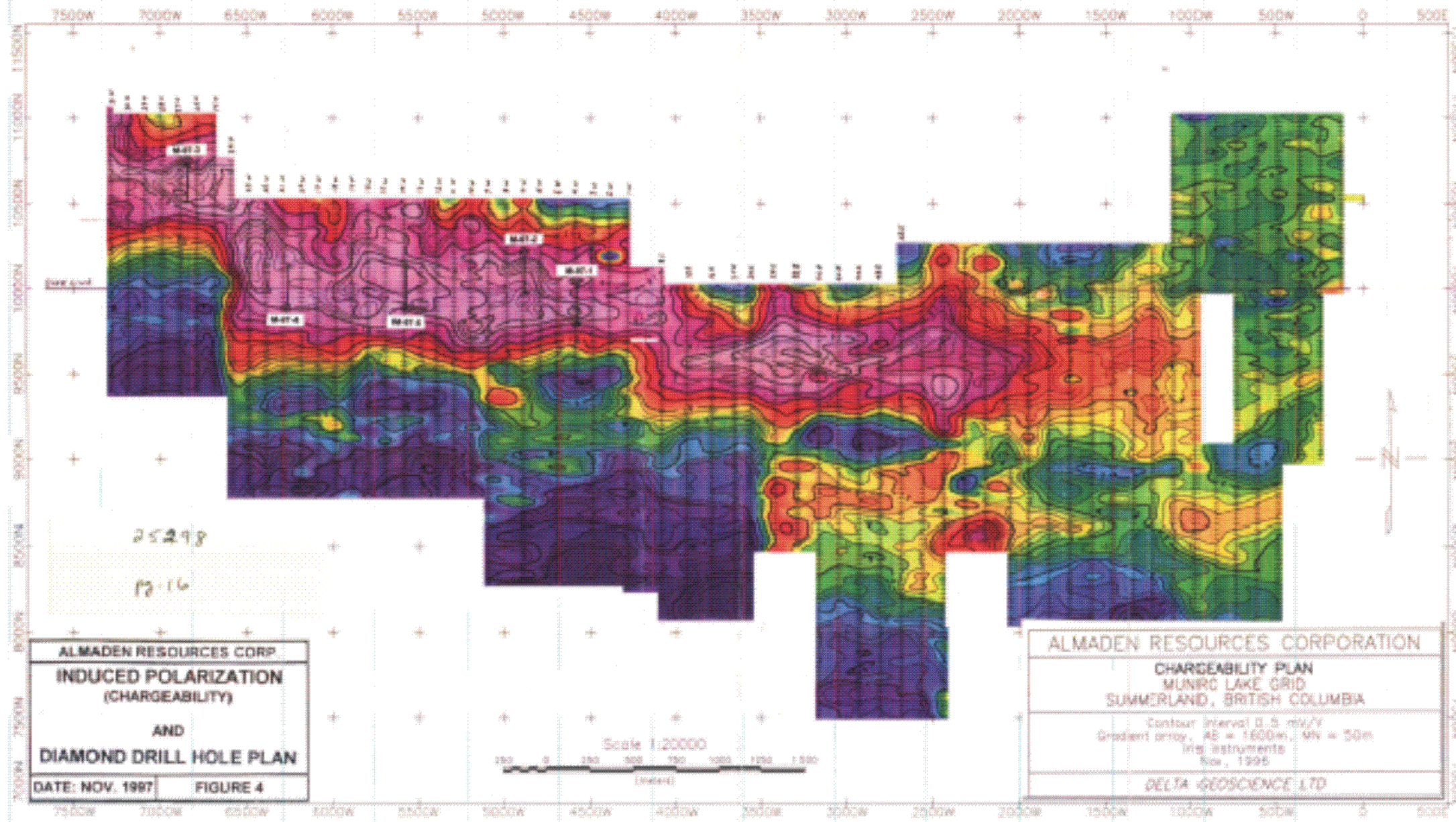
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| SAMPLE | PREP CODE | | Mo | Na | Ni | P | Pb | Sb | Sc | Sr | Ti | Tl | U | V | W | Zn |
|---------|-----------|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|------|-----|------|-----|
| | | | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm |
| M706581 | 205 | 294 | < 1 | 0.04 | 1 | 220 | 2 | < 2 | 1 | 83 | < 0.01 | < 10 | < 10 | 8 | < 10 | 30 |
| M706582 | 205 | 294 | 1 | 0.04 | 2 | 200 | 6 | < 2 | < 1 | 139 | < 0.01 | < 10 | 10 | 6 | < 10 | 36 |
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| M706586 | 205 | 294 | 2 | 0.03 | 1 | 190 | 2 | < 2 | < 1 | 202 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706587 | 205 | 294 | 3 | 0.04 | 1 | 190 | 4 | < 2 | 1 | 191 | < 0.01 | < 10 | < 10 | 5 | < 10 | 16 |
| M706588 | 205 | 294 | 7 | 0.03 | 1 | 180 | 4 | < 2 | 1 | 177 | < 0.01 | < 10 | < 10 | 6 | < 10 | 20 |
| M706589 | 205 | 294 | 1 | 0.05 | 2 | 190 | 2 | < 2 | 1 | 98 | < 0.01 | < 10 | < 10 | 8 | < 10 | 24 |
| M706590 | 205 | 294 | 3 | 0.04 | 5 | 190 | 2 | < 2 | < 1 | 110 | < 0.01 | < 10 | < 10 | 5 | < 10 | 14 |
| M706591 | 205 | 294 | < 1 | 0.04 | 1 | 210 | 2 | < 2 | 1 | 86 | < 0.01 | < 10 | < 10 | 9 | < 10 | 26 |
| M706592 | 205 | 294 | 6 | 0.03 | 1 | 210 | 6 | < 2 | 1 | 187 | < 0.01 | < 10 | 10 | 7 | < 10 | 24 |
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| M706594 | 205 | 294 | 1 | 0.06 | 2 | 220 | 2 | < 2 | 1 | 74 | < 0.01 | < 10 | < 10 | 10 | < 10 | 26 |
| M706595 | 205 | 294 | 1 | 0.04 | 1 | 240 | 2 | < 2 | 1 | 107 | < 0.01 | < 10 | < 10 | 8 | < 10 | 26 |
| M706596 | 205 | 294 | 1 | 0.04 | 1 | 160 | 2 | < 2 | < 1 | 96 | < 0.01 | < 10 | < 10 | 5 | < 10 | 10 |

CERTIFICATION:

Hank Pochler

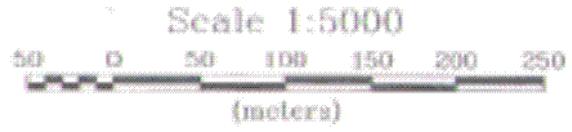
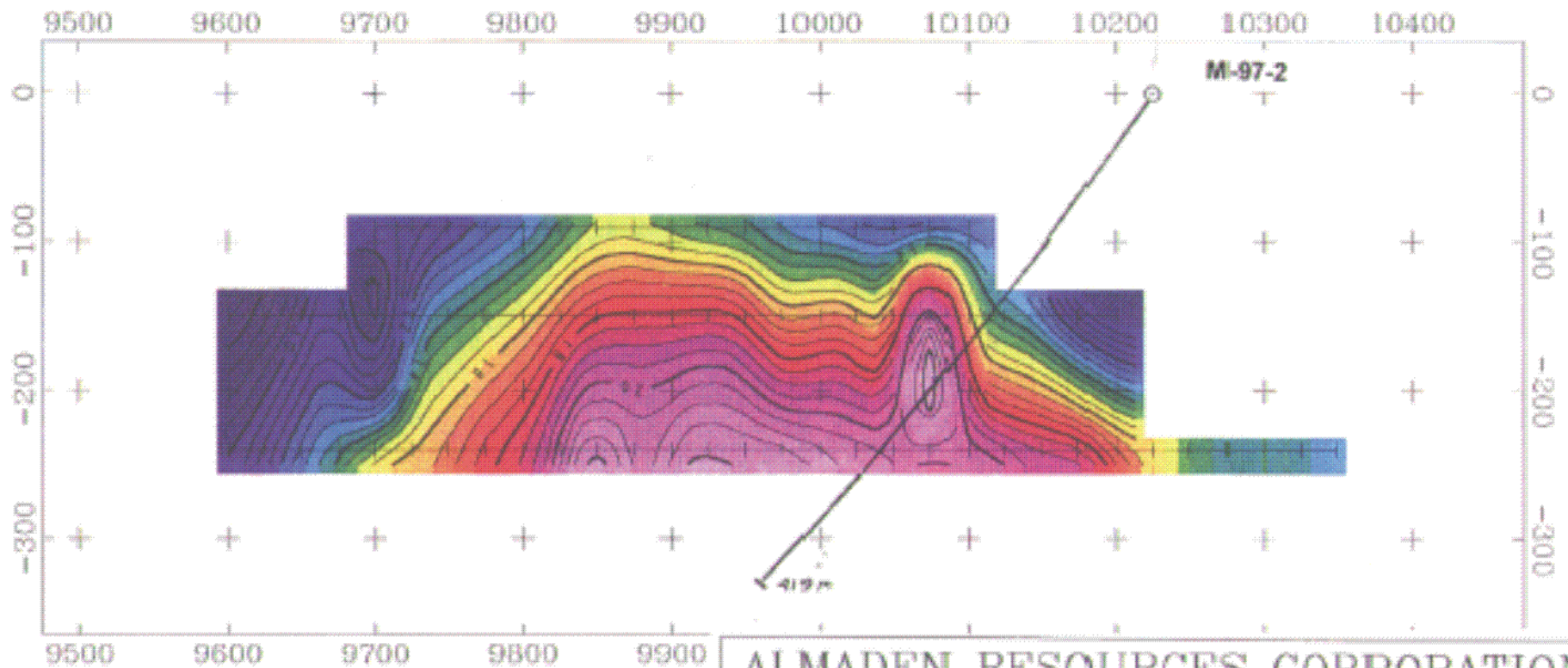
**Appendix 5 I.P. Chargeability Cross-sections
Showing Diamond Drill Hole Plots**



ALMADEN RESOURCES CORP.
**INDUCED POLARIZATION
 (CHARGEABILITY)**
 AND
DIAMOND DRILL HOLE PLAN
 DATE: NOV. 1997 FIGURE 4

Scale 1:20000
 0 200 400 600 800 1000 1200 1400
 (metres)

ALMADEN RESOURCES CORPORATION
CHARGEABILITY PLAN
 MUNRC LAKE GRID
 SUMMERLAND, BRITISH COLUMBIA
 Contour interval 0.5 mv/v
 Gradient array, AB = 1600m, MN = 50m
 Ina instruments
 Nov. 1995
 DELTA GEOSCIENCE LTD

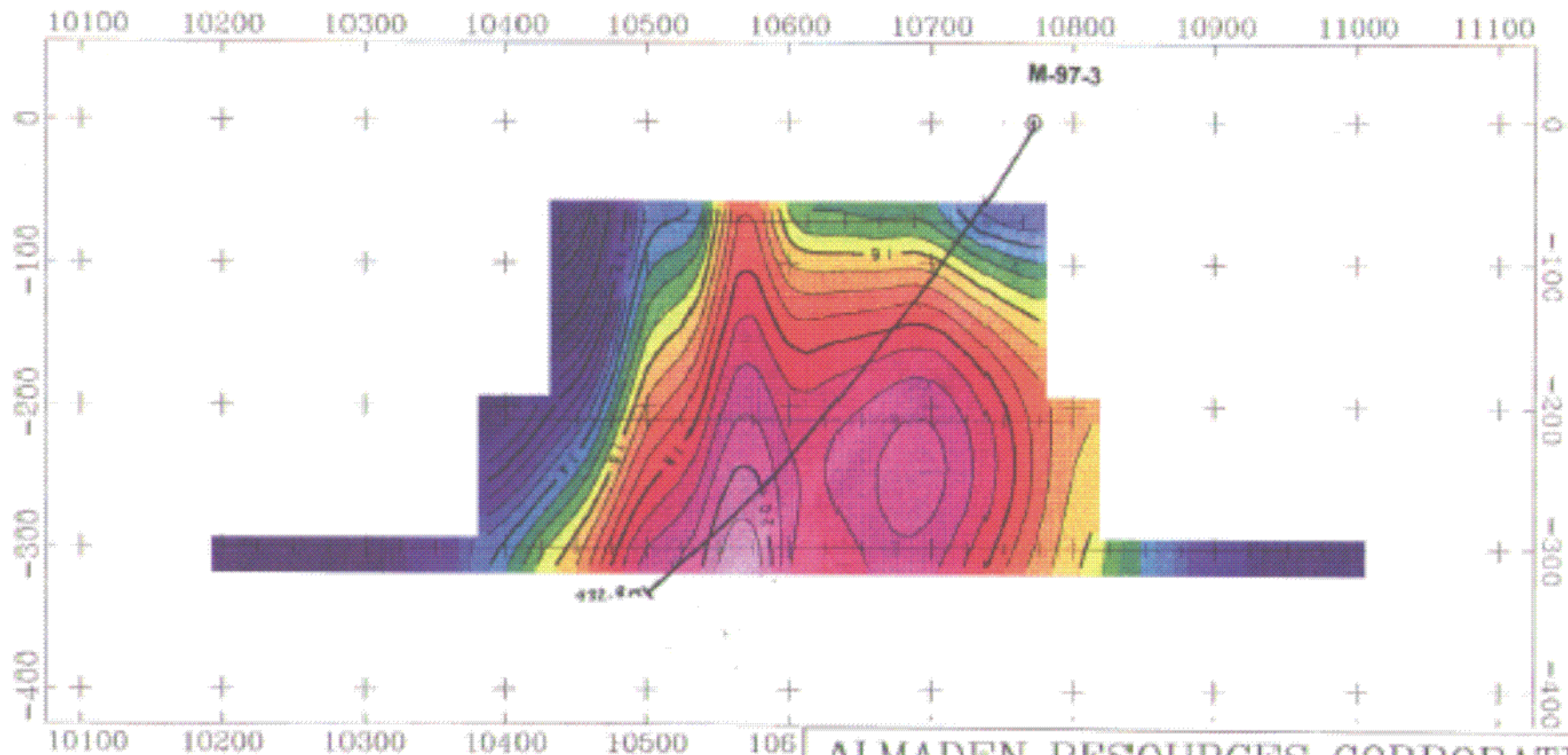


ALMADEN RESOURCES CORPORATION

MUNRO LAKE PROJECT
 CHARGEABILITY SECTION L4886W, (7W @ 96 ext)
 SUMMERLAND, BRITISH COLUMBIA

contour interval 0.5 mV/V
 Gradient arrays, AB = 1600-600m
 Iris instruments
 July, 1996

DELTA GEOSCIENCE LTD, fig #



ALMADEN RESOURCES CORPORATION

MUNRO LAKE PROJECT

CHARGEABILITY SECTION, LINE 2700W, (L6886W)
SUMMERLAND, BRITISH COLUMBIA

contour interval 0.5 mV/V

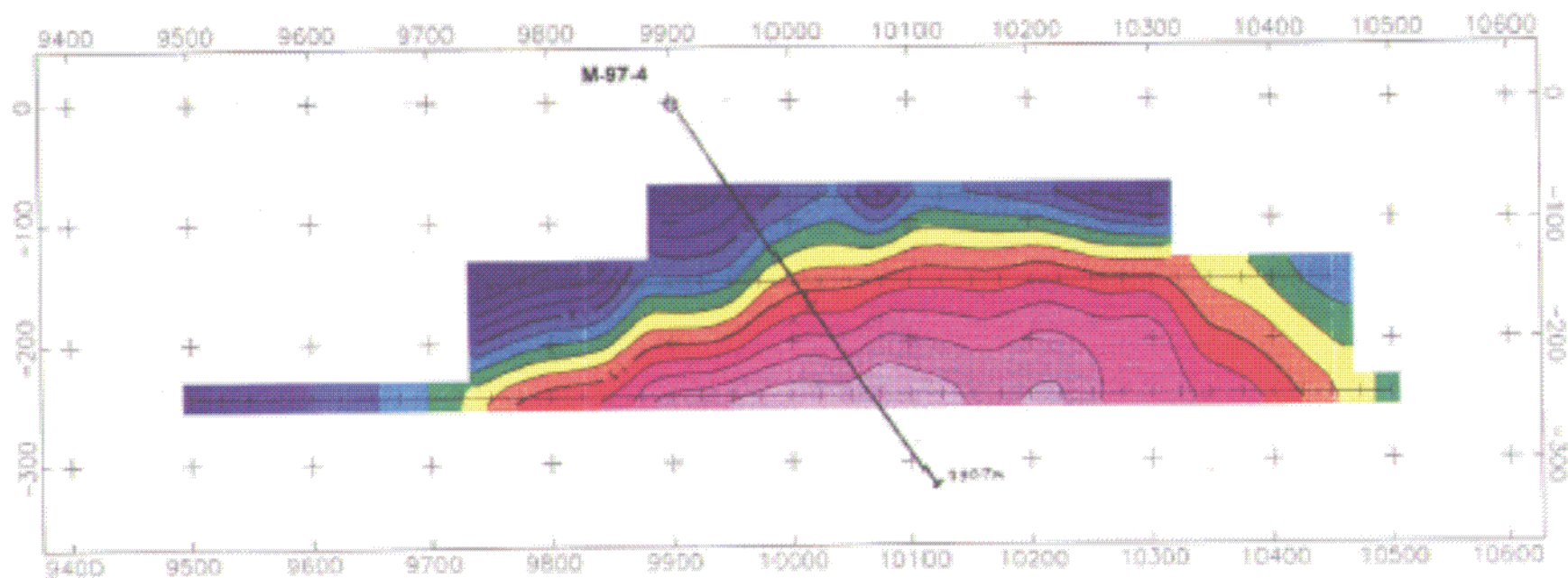
Gradient arrays, AB's = 400-1600m, MN = 25-50m

Iris instruments

Nov, 1996

DELTA GEOSCIENCE LTD,

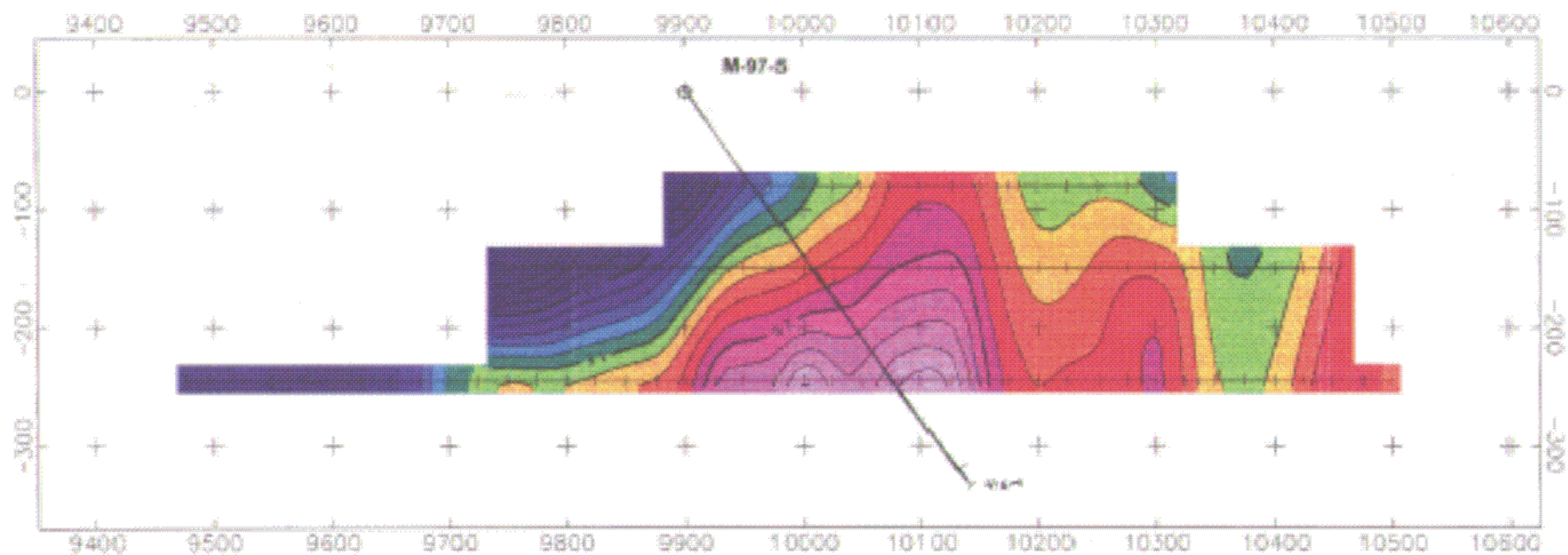
fig #



ALMADEN RESOURCES CORPORATION
 CHARGEABILITY SECTION, LINE 21W, (6286W)
 MUNRO LAKE GRID
 SUMMERLAND, BRITISH COLUMBIA

Contour interval 1 mV/Y
 Gradient arrays, AB = 600-1500m
 Iris instruments
 Sept, 1956

DELTA GEOSCIENCE LTD



ALMADEN RESOURCES CORPORATION

CHARGEABILITY SECTION, LINE 14W, (5586W)

MUNRO LAKE GRID

SUMMERLAND, BRITISH COLUMBIA

Contour interval 1 mV/V
Gradient arrays, AB = 600-1600m
Iris instruments
Sept, 1995

DELTA GEOSCIENCE LTD