BLACK PEARL MINERALS INC.

SUNSHINE LAKE - GEOLGICAL SURVEY

2.17123

Dual.#
2.10857

BY: Jeanette Lourim
December,1996

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Sunshine

SUMMARY

The geological survey conducted on the Sunshine Lake grid, Boyer Lake area, Wabigoon Sub-province, mapped fine grained to coarse grained metavolcanic rocks of the Starshine Lake basalts on the south side of Sunshine Lake. The Starshine Lake basalts are a sub-group of the Wapageisi Lake Group. These rocks were overlain by felsic metavolcanics and pyroclastics north of the baseline, and metasediments of the Manitou Group south of Uphill Lake in the northwest part of the grid. The rocks in the central part of the grid were intruded by a lamprophyric sill with gabbroic phases. Elsewhere, the rocks on the grid were intruded by granitic rocks, QFP,pyroxenites and other ultramafics.

The Manitou-Stormy Lakes metavolcanic-metasedimentary belt, which includes the Sunshine Lake grid, has potential for Kirkland Lake-style gold mineralization. Within the Sunshine Lake property, there are sediments of the Manitou Lakes Group. It has been suggested that they are similar to Timiskaming sedimentary basinal deposits (see below) such as at Kirkland Lake. Other similarities include, the presence of alkaline intrusives, the similarity in composition between the Starshine Lake Sub-Group and the Kinojevis Group of Kirkland Lake. The presence of the Mosher Bay-Washeibamaga Lake Fault which may be similar to the Kirkland Lake-Larder Lake Structural Zone, and the presence of a property-wide cross-fault which may be a splay-off from the main fault zone.

Several areas of the property were outlined for diamond drilling targets, based on elevated to anomolous gold and base metals values and favourable alteration minerals and rocks. Other reasons for potential drill targets are proximity to inferred or actual structures such as faults, cross-faults and shear zones, and potential for hydrothermal mineralization. These features as well as the potential for Kirkland Lake-style gold mineralization suggest a good potential for mineralization on the Sunshine Lake property.

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LOCATION AND ACCESS

The Sunshine Lake grid is centered at 49°22' latitude and 92°44' longitude. It is located in the Wabigoon Sub-province of the Superior Province of the Precambrian Shield in the Boyer Meggisi Lake area, NTS Sheet 52 F/7. The property is located south of Dryden and can be accessed from Dryden by taking Highway 502 south for approximately 65km to Uphill Lake Road (Figures 1,2). Take Uphill Lake Road for about 6km to a flagged line which accesses the south Tie Line (10+00S) or continue up the road to the baseline which crosses the road between L35 and L36. This road gives easy access to most of the central and west portions of the property. During this survey, a float plane was used for the part of the grid immediately south of Sunshine Lake.

CLAIM BLOCKS / OWNERSHIP

The Sunshine Lake property consists of six claim blocks, (Figure 2).
The property is under option from Blaine Webster and Mel Galbraith to Black Pearl Minerals INC. The six claim blocks are:

Claim Block	Claim Units
1150144	15
1150145	8
1178058	12
1178112	16
1178115	6
1178116	12

The geological survey was conducted on Claim Blocks 1178058, 1150144 and 1150145, (Figure 3).

BLACK PEARL MINERALS INC.

LOCATION MAP

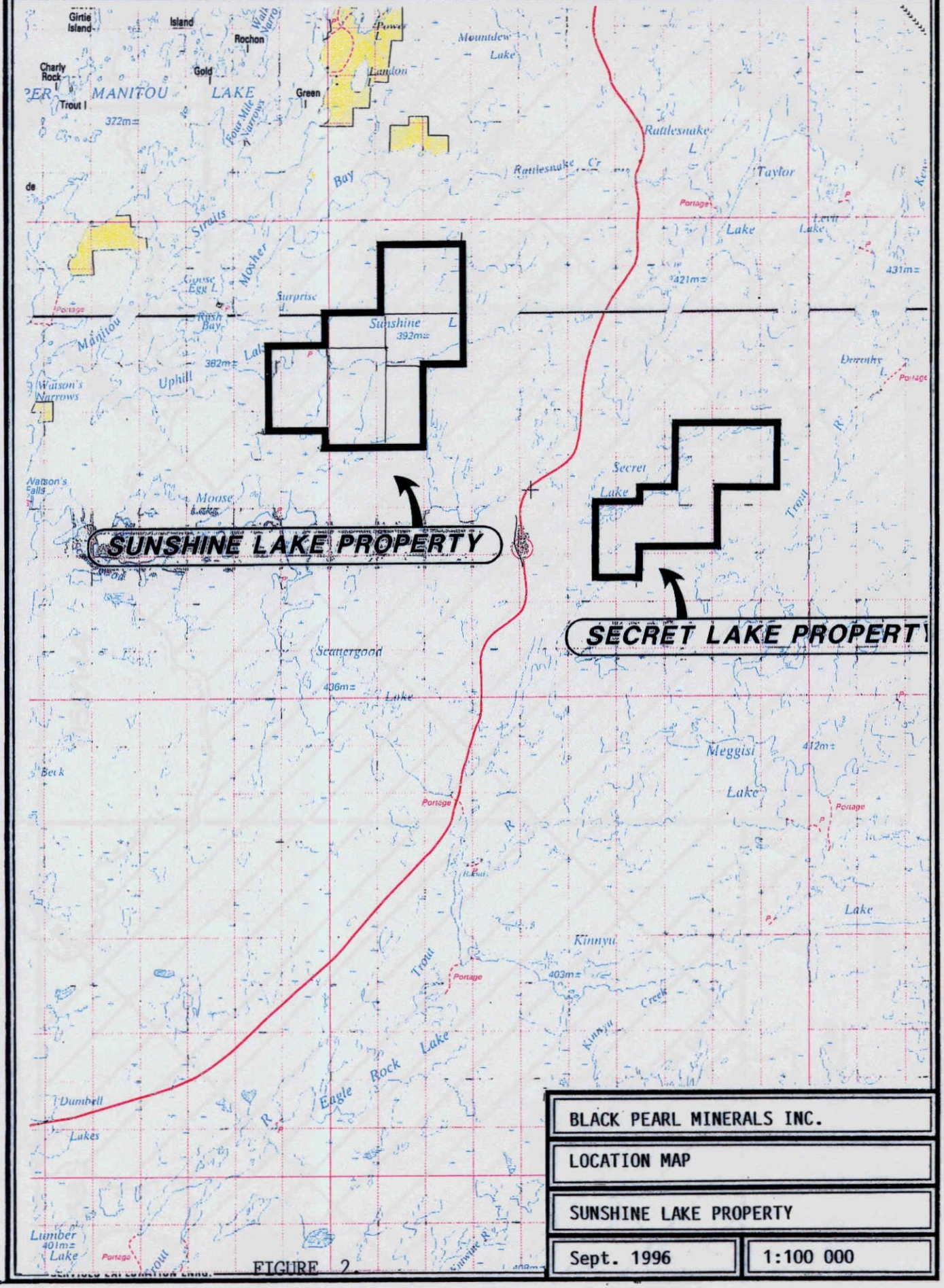
SUNSHINE LAKE PROPERTY

Sept. 1996	1:1 725 000

after:

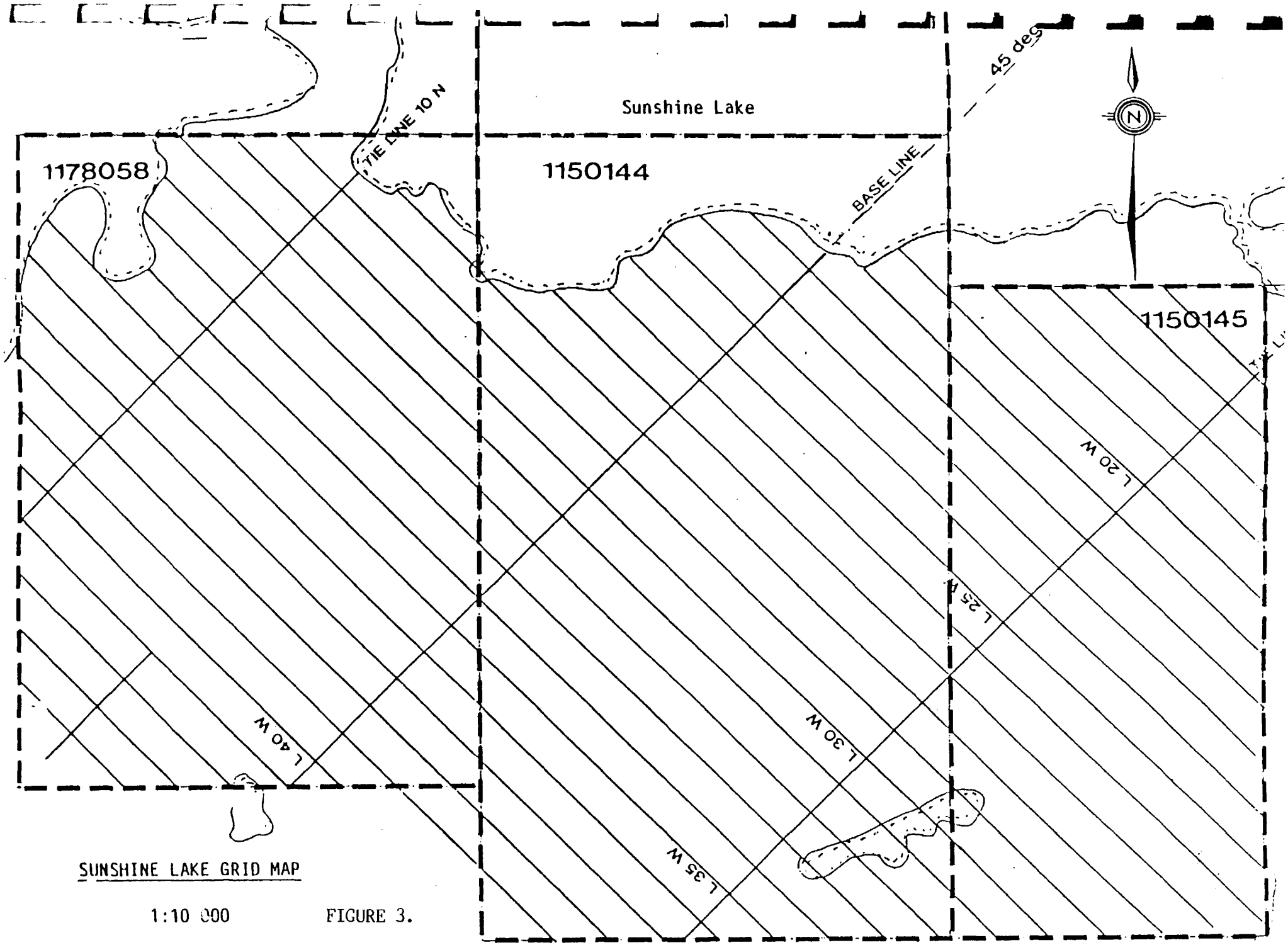
FIGURE 1.

SERVICES EXPLORATION ENRG.



BLACK PEARL MINERALS INC.	
LOCATION MAP	
SUNSHINE LAKE PROPERTY	
Sept. 1996	1:100 000

FIGURE 2.



SUNSHINE LAKE GRID MAP

1:10 000 FIGURE 3.

INTRODUCTION

In the summer of 1996, a geological survey was conducted on three claim blocks over the Sunshine Lake cut grid. These three claim blocks are part of a six-claim block property which straddles Sunshine Lake on the north and south.

During the geological survey, sixty-six rock samples were taken as well as ninety-nine soil samples. Geophysical surveys were conducted by Exploration Services ENRG during August and September. 60 Line Km of linecutting and magnetometer survey were conducted along with a MAXMIN survey of 50 Line Km.

While no strong conductors were determined by the MAXMIN survey, several weakly condcutive zones were delineated as well as an extensive magnetic low anomaly which are related to slightly elevated to anomalous gold mineralization.

REGIONAL GEOLOGY

The Sunshine Lake Property is in the Wabigoon Sub-Province of the Superior Province of the Precambrian Shield. It is in the `Manitou Lake-Stormy Lake Metavolcanics-Metasedimentary Belt', an arcuate structure 19km long and 18km wide that extends from Lower Manitou Lake in the west to Bending Lake in the east, Blackburn (1981). The Manitou Lake-Stormy Lake Metavolcanics-Metasedimentary Belt is in the Eagle-Wabigoon-Manitou Greenstone Belt, Blackburn (1991). The Taylor Lake Stock intrudes rocks on the east of Sunshine Lake and the Scattergood Lake Stock intrudes the sequence on the west. The area is cut by younger, northwest trending diabase dykes.

The large Manitou Lakes anticline to the west comprises mafic metavolcanics of the Blanchard Lake Group (intermediate to felsic metavolcanics), mainly clastic rocks of the Upper Manitou Lake Group, and on the east side it is cut by the north-east trending Manitou Straits Fault. The Manitou Straits Fault on the north has mixed mafic to felsic metavolcanic rocks of the Pincher Lake Group on the west and mafic metavolcanic rocks of the Boyer-Lake Group on the east. The central part of the fault zone has rocks of the Upper Manitou Lake Group on the west and meta-sedimentary rocks of the Manitou Lakes Group in the southwest, while the fault has rocks of the Pincher Lake Group on the west and mafic metavolcanics of the Wapageisi Group on the east, Balckburn (1991).

The Manitou Straits Fault is a `slide' fault - (a major fault that occurs along the limb of a structure such as a major anti-cline) The Manitou Straits Fault occurs on the southeast limb of the Manitou Anticline. Southeast of the Manitou Straits Fault (including the Taylor Lake Fault), is a homoclinal sequence that has been tipped steeply and faces northwest, Blackburn (Pers. comm). Rocks which underlie the Sunshine Lake property are at the top of the sequence. On the southwest shore of Uphill Lakes are metasediments of mainly volcaniclastic rocks of the Manitou Se-ries, and in the southeastern section are sub-alkalic felsic metavolcanics, mainly rhyolite schists.

Sunshine

PREVIOUS HISTORY

The first gold discovery in this region was to the north-east of Upper Manitou Lake at Gold Rock in 1897. In this area the Big Master Mine began development in 1902. It closed in 1905 and re-opened from 1942-1943. The gold was in pyritized quartz veins interbedded with quartzose schists which were interbanded with chlorite schists. Au is found as both free and within the pyrites. Total production recorded is 2,565 oz. Au and 184 oz. Ag., Blackburn (1991).

Also in the gold Rock area, the Elora Mine was developed on the Jubilee vein in 1936. The Jubilee vein consists of quartz veining, felsic volcanics or dykes, sericite and carbonate schist, and yellow sericite schist, which are banded with chlorite, graphite and sericite schist. The gold is described to be in quartz veins and mineralized light coloured schists with quartz stringers. Total production from the Elora Mine is recorded at 1,370 oz. Au and 296 oz. Ag., (ibid).

Immediately north of the Elora and Big Master mines is the Laurentian Mine where mining began in 1903. Mining and/or milling continued intermittently until 1939 when it closed. The ore was described as consisting of quartz veins up to to several inches in width with a brecciated wall rock grading into a porphyritic diabase, which merged into a darker diabase at a distance less than 40 feet from the veins. Total production is reported to be 8,143 oz. Au., Blackburn, (1981).

In 1904 Gold Rock Mining and Milling sunk two shafts at the Selby Lake Prospect. Kenwest Gold Mines Ltd. acquired the property in 1939 but no further work was done.

Regarding the Gold Rock area, Blackburn,(1982)said:

'....The source of gold in the area was volcanic and sub-volcanic rocks, and that concentration into presently known

deposits was accomplished both by thermal or hydrothermal effects of subvolcanic or epizonal felsic intrusions and by opening up of dilatent zones during tectonism. The volcanic and sub-volcanic sources were probably both mafic sills and flows and felsic stock-like and sill-like bodies. Process of emplacement is thus viewed as epigenetic and may be compared with discussions on 'metamorphic secretion theories.'

There are several other prospects and occurrences in the Gold Rock area which include the Paymaster, Little Master, Volcanic Reef, Victory Occurrence and Detola Prospect, Blackburn,(1982).

Several gold occurrences are near Mosher Bay immediately north of Sunshine Lake. A showing known as the Big Dick consists of 'quartz vein material in mafic metavolcanics or intrusives with abundant pyrite'. In 1933, .04oz/ton Au(1280 ppb Au) was returned from an 8' channel sample from a quartz vein in mafic volcanics. The Big Dick is mapped as being in a gabbro and proximal to the same fault that cuts through the Sunshine Lake Property, Blackburn (1981).

The Giant Mine, southeast of Mosher Bay contains gold in pyritized quartz veins in ENE shear zones with sheared porphyritic dykes. The metasediments and felsic dykes within the shear zone contain iron carbonate and are fissile and sericitized. Channel sampling conducted by Cochrane Oil and Gas Ltd. During 1983 and 1984 gave assays of 0.599 and 0.508 oz. Au/ton (19200 ppb Au, 16300 ppb Au, respectively) across two - 0.8m wide parallel quartz veins, as well as 0.019 oz. Au/ton(608 ppb Au). Two recent grab samples (O.G.S. Geosicence Labs) returned 1300ppb Au and 1385ppb Au, Blackburn (1981).

The Ten Trench area of Jalna Resources Ltd. north of the property, contains gold in tension fracture-hosted quartz veins which strike NNE within sandstones of the Manitou group. These are similar to the sandstones south of Uphill Lake. A recent grab sample (O.G.S. Geoscience Labs, 1988) returned 1470ppb Au. This was from a pyritized sandstone. The Ten Trench area which is immediately north of the Sunshine Lake grid, is proximal to the

Sunshine History (cont').

same fault that runs northeast southwest through the Sunshine Lake property. This fault has returned trace to elevated gold values as well as 95th percentile Zn and Cr values, and elevated Ag, Mo and Ni values from soils and rocks on the west side of the grid.

In 1985, Jalna Resources flew a regional Airborne magnetometer and EM survey over the Manitou-Stormy Lake area. Several magnetic anomalies were delineated in the Sunshine Lake grid, including a magnetic anomaly which extends from the southwest side of Sunshine Lake easterly into the center of the lake. No major EM conductors were found in the area, Blackburn (Pers. Comm) (MNDM Assessment files, Kenora, resident geologist's office).

In 1989 Noranda conducted humus geochemical sampling. The best value returned was 55ppb Au. This is highly anomalous for humus as 55ppb Au is over 13 Clarkes (One Clarke equals 4ppb Au). Two other samples returned values of 16 and 26 ppb Au. It should be noted that while the humus samples are from an area north of Sunshine Lake, they are all proximal to the Sunshine Lake property fault.

POTENTIAL FOR KIRKLAND LAKE-STYLE GOLD MINERALIZATION

Parker et al,(1988) state that gold mineralization is `spatially and temporally' related to the Thundercloud Lake Porphyry at Thundercloud Lake and Washeibamaga Lake and also `spatially and temporally' related to a major tectonic zone which was the focus for shear zone development and intense hydrothermal activity. They postulate, (based partially on the work of other researchers), that the Wapagiesi Lake Group sequence shows an evolution from deep-water, quiescent, tholeiitic flows to a more violent, partially subaerial volcanism which gave rise to felsic, calc-alkaline pyro-clastics. The Stormy Lake Group overlies these volcanics and pyroclastic rocks, and is formed of clastic metasediments above a well-defined unconformity.

While a Kirkland Lake style of gold mineralization may be postulated, this author believes that a larger body of determinations and facts would be required to support this hypothesis. The following lists the common features shared by the two areas.

-Gold mineralization is `spatially and temporally' related to felsic intrusions in the Kirkland Lake area, Fyon(1991). This has also been shown to be true in the Thundercloud area, Parker (1988).

-The Mosher Bay-Washeibamaga Lake Fault may be similar to the Kirkland Lake-Larder Lake Fault Zone.

-The fact that the Starshine Lake basalts are similar in composition to the tholeiitic basalts of the Kinojevis group. I.e. 12-17.6% AI_2O_3, 5-9 % MgO, 10-13% FE_2O_3. Blackburn (1982). Jensen (1985),(1976), as occurs in other similar gold areas.

-The presence of several gold past producers, off the main Kirkland Lake Fault and associated with NNE trending faults or splay-offs. Gold showings and gold occurrences are associated with the NNE trending faults in the Sunshine Lake areas. Fyon, (1991) states that Kirkland Lake gold deposits as well as deposits in other

areas occur along high-strain zones with strike orientations of northeast to east northeast.

-The Stormy Lake unconformity, Parker (1988), may be similar to the Timiskaming sedimentary basinal unconformity.

-Late lamprophyre dykes host gold in the Kerr Addison Mine in the Larder Lake area, Fyon (1991). Tr Au was found in the lamprophyre dyke at Sunshine Lake.

PROPERTY GEOLOGY

Introduction:

The Sunshine Lake property is in the Wabigoon Sub-Province of the Precambrian Shield. The stratigraphy of the area is characterized by Blackburn (1981), as containing south of the baseline, medium to fine grained flows and pillow basalts intruded by gabbros and pyroxenites. The mafic metavolcanics are part of the Starshine Lake Group basalt unit and are at the top of a homoclinal sequence. North of this Blackburn shows intermediate to felsic volcanics intruded by lamprophyre near and on the baseline. The felsic volcanics are overlain by metasediments in the extreme northwest of the property.

Geological mapping during August and September of 1996, showed the property is underlain by mafic metavolcanics south of the baseline and felsic metavolcanics and pyroclastic metasediments north of the baseline. Mafic and ultramafic intrusions, mainly concordant bodies, intrude the mafic metavolcanic sequence in the central and southern parts of the property. These units are intruded by fine to coarse grained ultramafic dykes and fine to coarse grained felsites and granites, with generally rounded quartz-felspar-porphyry bodies intruding various outcrops. In addition, the Taylor Lake Stock intrudes mafic metavolcanics in the southeast portion of the grid. For more detailed stratigraphy see maps `South' and `North',(Backpocket).

The topography of the Sunshine Lake grid, especially in the southeast part is composed of steep-sided scarps which generally trend 40° to 50°. Along with these scarps there are also some north-south scarps in the vicinity of 15+00S, L24E in a coarse grained mafic(Map `South' backpocket).A major property-wide fault occurs on the north side and off-sets the volcanic sequence, moving the felsics, relatively south. The main property trend or foliation is northeast-southwest except in the extreme southwest where the east-west trend is reflected in the drainage patterns of the area. (Maps `North' backpockets)

Property (cont'd)

Through most of the property discontinuous glacial till in the form of boulders and boulder fields can be seen. This is especially true in the area north of the baseline.

South of Baseline:

The southern part of the property is underlain by mafic metavolcanics of the Starshine Lake basalts which are at the top of a large homoclinal sequence, Blackburn (1981). The mafic metavolcanics are composed of fine grained basalts, mainly flows, which in some outcrops grade into coarse grained gabbroic rocks. Some discordant coarse grained gabbroic intrusions occur at oblique angles to the metavolcanic units. Locally, pyroxenite bodies have been found within the mafic fine grained to coarse grained phases of the metavolcanic rocks. The west part of the property is primarily underlain by basalt flows and pillows,(map `South' backpocket).

The southern part of the property at the east end of Sunshine Lake is intruded by rocks of the Taylor Lake Stock. This unit was identified as quartz-felspar-porphyry, Blackburn (1982). However, in the field, while QFP was seen in several outcrops, it was seen to be intruding granite outcrops. The granite was identified in several outcrops between L17E and L20E and this observer believes it to be of possible quartz monzonite or granodiorite composition. No thin sections were analyzed from these outcrops and they are termed `granite' on the map (map `South' backpocket), but despite the composition, they are clearly distinguishable from the QFP which intrudes them in several areas. Interestingly, the granites were seen to be intruded by pyroxenite dykes suggesting a younger period of ultramafic intrusive actlvity. Thus it is considered by this author that the `granitic' rocks below Sunshine Lake are part of the Taylor Lake Stock and are intruded by younger QFP and pyroxenite.

Immediately north of this area at L19E (map `South' backpocket)south of T.L. 10+00S, a fine-grained felsic volcanic rock of rhyolitic to dacitic composition was seen. This is the only felsic volcanic extrusive seen on the south side and is considered

Property (cont'd)

likely to be an intercalated layer within the mafic sequence. Small granite and fine-grained, pink felsite intrusives and QFP were identified elsewhere on the south side of the property.

As mentioned above, the drainage in the extreme southwest of the grid has an east-west trend as opposed to the general trend of the'property which is northeast-southwest. In this area, the highest anomalous gold value on the property was obtained from rock sample R3028(map `South' back-pocket)(Table 1)which returned a value of 2550 ppb Au,(Appendix A)(Table 1) approximately 90 meters east of L34E. (Note that there is >100m between L33E and L34EI). 225m north of this area, at the south Tie Line, a soil, S3038(Table 2), returned Cu 49 and low 15ppb Au.

Possible cross faults are associated with the samples and two weak EM features parallel the local east-west trend of the lakes and rocks, Services Exploration ENR (1996). These may represent zones of incompetent rock with potential mineralization.

Central Area of Grid:

Along the central part of the grid within the vincinity of the baseline is an ultramafic to mafic sill which was identified by Balckburn (1981) as a lamprophyre. The lamprophyre intrudes the unconformity between the mafic metavolcanics south of the baseline and the intermediate to felsic volcanics north of the baseline.

1996 geological mapping found that this lamprophyre unit extended for a distance of 1.6km from the south shore of Sunshine Lake across the grid southwestward to L37E just west of the road,(map `South' backpocket). Near the shore, fine-grained to coarse grained green and pale blue-green rocks were seen. These were incompetent relative to other rocks on the grid and were highly altered. Several hundred meters west of the shore the rocks were grey to grey-brown, occasionally with a tan crust which was quite prominent in areas such as that of the large exposure east of the road north of the baseline between L36E and L35E. Carbonate was more common to the east and less so on the

Property (cont'd)

west of the lamprophyre in which coarse grained gabbroic phases were seen (map `North' backpocket). These gabbroic phases (in a few areas) contain granite xenoliths up to 6" in length. In a couple of areas towards the east side where the lamprophyre was green on fresh surface, a fine grained black ultramafic intrusion was seen proximal to areas with coarse granitic xenoliths. While the ultramafic appeared to be an intrusive body, the possibility that it was a megalith is not discounted. Sulphide mineralization within the lamprophyre/gabbro sill was sampled. Rock samples returned elevated golds values along with 95th percentile(Appendix B) Ni and soil samples returned elevated Cr and Cu values, near BLO and L27E, (maps `South', `North' back-pocket).

Immediately northwest of the lamprophyre, west of L37E, various soils and rocks returned elevated Au, Ag, Mo values as well as 95th percentile Zn and Cr and 90th percentile(Appendix B) Ni values between L37E and L44E within rhyolitic schists, associated with various intrusions, such as QFP and pyroxenite and gabbros. The iron-stained schists contain quartz-carbonate-pyrite veins(see map `North'). It is possible that the mineralization is due to the presence of the lamprophyre which could be part of the hydrothermal system responsible for the mineralization in these rocks to the northwest.

North of Baseline:

North of the baseline and north of the lamprophyre/gabbro intrusions are felsic metavolcanic rocks of the Manitou Lake Group,which contain primarily rhyolitic flows, tuffs and lapilli tuffs with some outcrops of heterolithic flow breccia. These rocks are intruded by fine grained ultramafic dykes in two areas near L41E and smaller granitic and QFP bodies intrude the rhyolites and are associated with mylonitic zones. Mineralization nearby is associated with quartz-carbonate veins, schists, pyritization and sulphidization. Soils and rocks from this area hetween L37E and L44E returned above background to anomalous geochemical values. Mineralization included Au, Ag, Mo with 95th percentile Zn and Cr, and 90th percentile Ni values,(Appendix B).

Blackburn (1982) determined sandstones and mudstones at the southwest of Uphill Lake and sub-alkalic felsic volcanics on the southwest side of Uphill Lake. On the southwest of Uphill Lake, the '96 summer survey found outcrops of heterolithic, volcaniclastic sediments and some local coarse grained volcanics which were intercalated with very finely banded beds of argillaceous rocks in a few areas. It is not clear if this is an intercalation or a quasi-bedding feature. The margins of the unit were very abrupt. Locally the sediments are intruded by granites and by a mafic felspar pyroxene porphery (non-magnetic) with parallel rusty laths of felspar as a feature of the volcanic rocks seen in an isolated outcrop. No mineralization was seen in this area.

On the southeast side of Uphill Lake, the rocks are predominately rhyolitic schists. Molybdenum mineralization was found in the schists adjacent to an area with a granitic intrusion. South of this, Zn, Ni, Mo, Cr mineralization and trace gold occured in the rhyolites. Quartz-carbonate-pyrite veins in the schists were sampled and returned elevated Mo values from two samples, while rocks and soils within the general sub-alkalic felsic area returned further elevated Mo, 95th percentile Zn and other above background Zn values, 90th percentile Cr and Ni values and slightly elevated Au values from one rock sample,(Appendix B). A zinc-showing occurs on the portage between Uphill Lake and Sunshine Lake which is off the grid, Blackburn (Pers. comm). This information was received after the field season and was therefore not investigated. This showing is within the same unit where various samples from nearby rocks and soils returned anomalous Zn, Mo, Cr, Ni and elevated Au values, as mentioned above.

The volcaniclastic sediments, have been interpreted to be deposited in a sub-aqueous environment, Blackburn (Pers. comm).

A property-wide fault striking NNE/SSW, extends from the lake at L41W, BLO across the property to Sunshine Lake, passing through the area near TL 10N, L28W. At its south end it clearly off-sets the volcanic sequence, moving the felsic volcanics southward relative to the mafic volcanics.

Property (cont'd)

However one outcrop, at L37+80W, 2+50S, contains both mafic and felsic outcrops intruded by QFP. The main fault has an inferred fault sub-paralleling it as well as two cross-faults. One of the cross-faults passes through the area of the above outcrop which is on the opposite side from the main fel-sic sequence. Also, the main fault bisects an area between L37 and L44, where soils (S3072, S3075, S3080) and rocks (R3070, R3072) returned elevated Au, Ag, and Mo values along with 95th percentile Zn and Cr and 90th percentile Ni values. (Map `North' backpocket) (Appendices A,B) (Tables 1, 2)

Interestingly, a creek, traced from L37 to L32 exactly parallels this main fault/cross-fault inferred structure and occurs a few hundred meters east of the faults. It should be noted that this same characteristic is reflected in the lamprophyre between L37 and L33, which appears to be faulted along the same trend, (Map `North' backpocket).

SAMPLE PREPARATION AND ANALYSIS

Rock samples were crushed to 2mm and split to 200 - 250 gram samples which were then pulverized to -150 mesh/100 micron sieve. Soil samples were dried and sieved using -80 mesh sieve to 175 microns.

After sieving or pulverizing, the 'pulps' are mixed in a flux with silver nitrate added and heated to 1290°C which results in a metallic bead. The bead is digested using Aqua-Regia and the resultant solution is analyzed using atomic absorption spectrometry. A 5gram sample is digested using nitric acid and analyzed using ICP-AES (Au-FA+AA). The samples were analyzed for Au and 32 elements. The gold was given in ppb and the others in ppm. (Appendix A).

While precious and base metals are seldom found in strong concentration at the surface, when slightly elevated amounts occur they should be addressed. Statistical analysis was conducted on the rock and soil samples to determine the 95th percentile, (Appendix B). This is considered anomolous, Levinson (1974). These 95th percentile values along with favourable structure, geology and other features assist in the delineation of favourable diamond drill targets.

Statistical analysis gave the mean, median, standard deviation and other statistics.

Background was determined from the median. Anomalous values were determined using the 95th percentile based on a cumulative frequency plot expressed in logarithmic units and plotted on arithmetic paper, (Appendix B).

It should be noted that because Molybdenum is very mobile in the environment is is often widely dispersed. Thus even low values of Molybdenum may be significant, Ng, Chemex(Pers. comm). Thus, values of Mo were subjected to 95th percentile statistics and treated as anomalous when above background despite their relatively low ppm concentrations.

Sample analysis. cont'd

Because a chrome steel ring was used in sample preparation, contamination up to 150 ppm may be expected. Only values over 150 ppm Cr are considered as `true values' although all values were treated statistically, since 150 ppm is a very extreme maximum of contamination (Pers. comm. Chemex).

Table One

Sunshine Lake Results of Statistical Analysis (Rocks):

The following is a list of samples(Appendix A) with 95th (Appendix B)percentile values and some 90th percentile values, designated with a `<` (Au in ppb, Others ppm). See geological maps `North' and `South'- backpocket.

Locations	Sample #	Results
L33W, 12+50S	R3028	Au 2550.
L27W, BLO	R3030	Au 20, Co 34<, Ni 117, Pb 30.
L27W, 0+40S	R3031	Au 15, Ni 119<.
L28+20W, 1+50S	R3032	Au 15, Cu 139<.
L21W, 6+75S	R3001	Ag .2, Co 35<,Cr 170<, Zn74<
L29W, 0+90S	R3033	Ag .2
L30+40W, 13+30N	R3040	Ag .2, Mo 4<
L30+50W, 13+25N	R3042	Ag .2, Mo 9, Pb 20<.
L31W, 11+40N	R3044	Ag .2, Cr 166<.
L32W. TL lON	R3047	Ag .2, Cr 164<, Ni 114<, Pb 28.
L35+80W, 2N	R3050	Ag .2, Cr 189.
L37'95W, 2+25N	R3071B	Ag .2, Co 38, Zn 184
L37+95W, 2+25N	R3071C	Au 10 , Ag.2, Mo 4< , Pb 20<.
L41W, 5N	R3072	Ag .2, Cr 338, Ni 119<, Pb 28.
L27W, 7+60S	R3036	Cu, 512, Co 60, Zn 152.
L33W, TLlOS	R3077	Cu 155, Co 42
L27N, O+lOS	R3025	Co 42, Ni 163.
L18W, 4+60S	R3015	Cr 326, Ni 219.
L26W, 18+75S	R3013	Cr 193
L27W, 15+75S	R3014	Cu 306, Zn 96<.
L38W, 4+50S	R3089	Cu 154. MEDIAN
L33W, 7S	R3086	Cu 143< Co 19, Cr 75.5,Cu 49
L25W, lOS	R3003	Cu 139< Ni 41, Zn 40, Mo 1.
L35W, 11+70S	R3027	Zn 68<
L28+75W, 10+25N	R3022	Mo 5.
L32W, 12+25N	R3048	Mo 4<, Ni 189, Zn 174.
L37+95W, 2+25N	R3071A	Pb 26, Zn 116.
L30W, 13+25N	R13001	Ag .2.

*Au values excepted - all Au values given >5ppb.
Ag,Mo values excepted.

Table 2

Sunshine Lake Results of Statistical Analysis (Soils):

The following is a list of soil samples (Appendix A) with 95th percentile values and with 90th percentile values(Appendix B) designated with a <`.(Au- ppb, others-ppm).(Geological maps `South' and `North' backpocket)

Locations	Sample#	Results
37W, 5N	S3072	Au 60
44W, 3+00N	S3080	Au 25
34W, TL 10S	S3038	Au 15, Mo 1, Pb 12<, Cu 49<
37W, 7+00N	S3067	Au 15
23W 15+50S	S3013	Au 10, Co 13<
18W, 5+00S	S3026	Ag .4, Co 22,Cr 192, Cu 96,Ni 83, Zn 68
29W, 2+35S	S3043	Co 41, Cr 417,Ni 362
20W, 5+00S	S3025	Co 33, Cr 305,Cu 81,Ni 80,Zn 120
38W, TL 10N	S3073	Co 13<,Cr 142<,Mo 3,Ni 92,Pb 26, Zn 92
25W, TL 10S	S3019	Cr 104<, Cu 46, Ni 35, Pb 12<
27W, TL 10S	S3023	Pb 12<, Zn 246
31W, 6+50S	S3089	Ni 38<, Zn 176,Co 20, Cr 80<, Cu 49<
22W, BLO	S3007	Co 19<, Cr 298, Ni 74<
26W BLO+25S	S3034	Co 14<, Cr 231, Ni 84
26W, TL 10S	S3020	Co 20, Cu 61, Mo 1<
41W, TL 10N	S3082	Cr 71<, Pb 18
37W, 10+25S	S3035	Cr 69, Ni 46<
21W, 9+85S	S3002	Cu 58, Pb 14
32W, 7+40S	S3090	Cu 39, Zn 94
29W, 2+35S	S3043	Pb 12<, Zn 68
29W, 5N	S3031	Co 13<
25W, 15+25S	S3012	Cu 63
23W, TL 10S	S3014	Cu 39
40W TL 10N	S3083	Mo 3
39W, 0+25N	S3074	Mo 2
35W, TL 10S	S3037	Mo 1<
30W, 15+25S	S3084B	Mo 1<
24W, BLO	S3008	Ni 43<
35W, TL 10N	S3064	Zn 76
29W, TL 10N	S3030	Zn 72
19W TL 10S	S3005	Zn 7

MEDIAN

Co 6, Cu 8, Pb 6

Cr 23, Ni 15, Zn 28

*Au,Ag,Mo values excepted.

All Au values >5ppb given.

GEOLOGICAL DISCUSSION

The possibility exists that the Sunshine Lake area, and the Manitou-Stormy Lake Belt in general, are similar to the Kirkland Lake gold belt. On the north are sediments which it can be argued are similar to a Timiskiming-type sedimentary basin. Alkaline volcanism derived from deep-seated crustal magma appears to support the possiblity that this area is similar to the model proposed for the Kirkland Lake area, Blackburn, (Pers. Comm).Numerous structural features such as faults, cross-faults, major rifts and shears occur in the area.

The very fine-grained, highly siliceous, sericitized sandstones and metasedimentary units on the south shore of Uphill Lake contain fine argillaceous beds and are likely chemical sediments deposited in an aqueous environment. They are similar to rocks underlying the Giant Mine and the Ten Trench occurrence, which are immediately north of the property.

The Sunshine Lake property fault which crosses the grid north of the baseline, trends north-northwest through the west end of Sunshine Lake. It has several gold occurrences north of Sunshine Lake associated with it. These are the Ten Trench area, the Big Dick and the anomalous humus samples of Jalna Resources. They are proximal to the fault. On the grid, above the baseline, the fault bisects an area where elevated Au, Ag and Mo values were returned from soils and rocks, as well as 95th percentile Zn and Cr and 90th percentile Ni values. Numerous mineralized shears and schists were seen in outcrops which were primarily volcaniclastic rhyolites and tuffs which were intruded by quartz-felspar-porphry and mafic to ultramafic dykes. Zn, Ag, trace Au and trace Mo were associated with quartz-carbonate veinlets in the shears within this assemblage.

The Sunshine Lake fault may be part of a conduit for a hydrothermal system which is related to a feeder system associated with the lamprophyre/gabbro dyke in the center of the property. It is not suggested that the lamprophyre is the source of the gold, but the lamprophyre and gold mineralization may have been generated in a common tectonic setting, Parker et al, (1988).

Geological Discussion (cont'd)

Another likely possibilty, perhaps related to this, is that the Scattergood Lake Stock may have been the `engine' of the feeder system of hydrothermal fluids. The stock is cut by the Sunshine fault but the fault has been off-set by the Stock suggesting the fault pre-dates the stock. If this is true, the Scattergood Lake Stock may have been the heat source for hydrothermal fluids.

Sulphide mineralization in the northwest part of the grid area may also be related to the fault where trace Au values from pyritized quartz veins, elevated Mo and 95th percentile Zn and Ni values were returned from a rock sample and 90th percentile Zn values returned from a soil. These were all from an area proximal to the fault and near the zinc showing between Uphill and Sunshine Lakes.

On the south side of the grid rock sample R3028(Au 2550 ppb) (map `South' backpocket) (Table 1), occurs in coarse grained gabbroic rocks associated with inferred northwest trending faults and weak HLEM conductive zones which may represent mineralized shears or cross-shears associated with mineralization. Similar trending faulting can be traced northwest from the fault between L33 and L34W to the baseline. Above the baseline at L33W a fault may be inferred in the lamprophyre. On the east part of the grid, the Sunshine Lake `Porphyry' may be responsible for hydrothermal fluids moving through shears, fractures and faults resulting in mineralization.

Gold mineralization on the north side of the grid may be related to the Mosher Bay - Washeibemaga Lake Fault. Parker, et al (1988) state: `Late movement along the east-trending Mosher Bay-Washeibamaga Lake Fault accompanied by the intrusion of late felsic dykes and gold mineralization, may have been synchronous with the final stages of tectonism. Movement along the fault produced the east and east-northeast trending, carbonatized, and sericitized shear zones which host gold mineralization in the metasediments of the Manitou Group at Mosher Bay.'

RESULTS

Introduction:

In August and September, 1996, Services Exploration ENRG conducted 60km of Mag over 60km of cut-line grid and 50km of MAXMIN over the 60km grid. While no strong HLEM conductors are present on the Sunshine Lake grid, several weak zones were delineated.

These weakly conductive zones were seen in some areas to conform to steep-scarp topography or possibly conductive soils but in some areas their causes were not evident and may be related to mineralization. As a result, all potentially weak conductors were highlighted on the maps (See maps 'North' and 'South') as `conductors', as such, and were related to geology, geochemistry, magnetics and topography, in so far as possible, to determine if these zones are related to mineralization and hence, true conductors, or relevant for further work. (See below)

The magnetic survey, shows a large, elongate magnetic high anomaly over the central part of the grid coinciding with the lamprophyre which extends from the south shore of Sunshine Lake to L37W. Strong magnetic lows are also associated with the lamprophyre, suggesting zones of alteration within the sill. South of the baseline, magnetic high anomalies near and below the south Tie Line, are associated with the coarse grained gabbroics, while the magnetic lows, are in general (but not always) related to the fine grained basalts. On the north side above T.L.10N at L34 and L35, there are local magnetic highs unrelated to any outcrops, (map 'North' backpocket).

In the extreme southwest part of the grid at 12+50S, 90 meters East of L34W(L33 to L34 >100m), where sample R3028 returned 2550 ppb's Au, two weakly conductive zones occur. They are parallel to and conformable with, the geological and physiographic trend of the area as expressed by outcrops and local drainage(map 'South' backpocket)(Table 1). They are cut by two faults, one of which is adjacent to the anomalous gold value. The southern

weakly conductive zone is not clearly related to the topography and cuts across outcrops and thus may be a conductor. It is cut by an inferred fault in the vicinity of the anomalous gold value.

This location is associated with a magnetic high anomaly. The two potential weakly conductive zones appear to coincide with relative magnetic lows. The northern one coincides with a steep outcrop face. This is not the case with the southern one which cuts across different outcrops and hence, may be a deep, buried, true conductor trending between L33W to L35W, near 12+00S to 10+75S. Nearby soil sample S3038 returned 15ppb Au and 49ppm Cu(Table 1) (Appendix A) (map `South' backpocket). This sample location is taken from a steep fault within the coarse grained gabbroic rocks which is the same unit as returned Au 2550ppb's. S3038 is associated with a relatively low magnetic feature. (Map `South' Backpocket)(Table 2)

2)On the north side of the grid, to the northwest of the large central lamprophyre/gabbroic sill, in the area between L37W and L44W(Map `North' Backpocket), two rock samples within fine grained rhyolitic schists returned trace gold values and three soil samples within the area returned trace and elevated gold values, (S3072-Au 60ppb, S3080-Au 25ppb, S3067-Au 15ppb, R3080-Au 25ppb, R3071-Au 10ppb). Rocks and soils from this area also returned elevated Ag and Mo and 95th and 90th percentile Zn, Ni and Cr values(Appendices A,B) (Tables 1,2). The gold and other mineralization in the area appear to be associated with relative magnetic lows suggesting potential zones of alteration. The area is cut by the property-wide NNE/SSW fault, an inferred, sub-parallel fault and two small cross faults, one of which is near the felsic rhyolite/gabbroic interface. In this area 95th percentile metallic minerals (R3071A-Zn 116 ppm, R3071B-Zn 184 ppm) Ag .2 ppm and trace Mo and Au, were found at L37+95W, 2+50N(Map `North' backpocket). The faults and cross-faults in this area may be conduits of a feeder zone related to the large lamprophyre sill which could have moved mineralizing fluids through the fault system.

Results cont'd

3)Mineralization composed of Zn, Cu, Ni, and trace Au was returned from a zone of schists along L7+00S between L27W to L34W (Map 'South' Backpocket). The schists are within fine grained basalts in a steep northeast-southwest ridge which parallels an elongate swamp. The basalts contain zones of alteration associated with the schists which are calcitic, pyritized, sulphidized. The area is associated with possible conductors which also coincide with the steep topography. The area is within a relative magnetic low. A fault at L32W within fine grained basalts was seen in an outcrop which contains a zone of alteration. Mineralization from soils and rocks, near the basalt/gabbro contact and Ni values with trace gold, returned 90th and 95th percentile Cu (up to 512ppm), Zn (up to 176ppm)(Appendices A,B) and Ni values with trace of gold.

4)Between the south shore of Uphill Lake and TL 10N, west of Sunshine Lake, several rocks and soils returned anomalous values. The highest Mo value (9ppm) was returned from R3042 at L30W, 13+25N (Map 'North' backpocket, Table 1). The sample was from a mineralized schist within rhyolites. Other samples from that unit returned elevated Mo as well as 90th and 95th percentile Zn values from two soils and one rock sample. Cr and Ni from rocks as well as trace gold values from R3044 was also returned. Mineralization occurs within sheared, schistose zones trending NNE/SSW, roughly paralleling the main fault zone. Near the Tie Line, there is a possible, weak conductor, (Appendices A,B)(Table 1).

5)Near the Baseline at 27W, two rock samples within the lamprophyre returned slightly elevated Au values, 95th and 90th percentile Ni and Cr values. While the main body of the lamprophyre sill was associated with a magnetic high, and no mineraliation values found in outcrop, this area containing mineralization was associated with a prominent magnetic low and likely represents a zone of alteration. South of this area, between L28W and L29W, S3043 returned 95th percentile Cr, Ni and Co and 90th percentile Zn values. Sample R3032 (Appendix A) (Table 1), returned slightly elevated gold and 90th percentile Cu (Appendix B) values from fine grained basalts.

Results cont'd

6)At the basalt/gabbro contact on TL 10S between L25W and L26W, two soils, S3019, S3020, returned elevated to 90th percentile Cu, Cr, Ni and trace Mo values. Nearby rocks returned a 95th percentile Zn value from R3023, and a 90th percentile Cu values R3003. The two soil samples and R3003 are near the intersection of two inferred faults. The area is within a magnetic low,(map 'South' backpocket) (Appendix B)(Tables 1,2).

7)Location L38W, TL 10N is associated with a sheared rhyolite and a magnetic low. Sample S3073 returned elevated Ni, Zn, Mo, Cr and Pb values, a sample immediately adjacent to the outcrop.

8)A possible weak conductor from L31 to L35 at TL 10N is associated with a relative mag high/mag low area and soils returned 90th percentile, Ni, Zn and Cr values from soil samples adjacent to sheared, pyritized, calcitic rhyolite schists, (map 'North' backpocket).

9) The highest Au in soils was from sample S3072, 60 ppb Au, in an area characterized by a magnetic low anomaly interfacing with a magnetic high. Sample S3067, nearby, returned 15 Au ppb,(map 'North' backpocket). These samples are near a possible inferred fault. (See'2' above), and may be mineralization related to the suggested conduit system from the feeder unit, the lamprophyre dyke.

10)Elevated Zn and Mo values were found in rhyolites at L29W, 9+75N. Mo and Zn values appear to increase to the north and also to the southwest (See 4' above)(map 'North' backpocket).

11)At L35W, 13+50N the interface between a mag high/mag low trends northeast-southwest and may be associated with a fault, on the same trend. Nearby at L36W, 13+25N is an altered mafic volcanic with flow texture felspars and coarse pyrQxene. The mafic intrusive may be associated with a zone of altered schists as seen in the outcrop at L35W near 13+50N which contains a similar mafic unit in the sediments. The magnetic highs south of this area along L35W are not associated with outcrops,(map 'North' backpocket).

RECOMMENDATIONS

Several potential targets for drilling are recommended from the 11 areas listed in the 'Discussion' section (see Above). The recommendations are based on considerations of geology, geochemistry and geophysics as well as potential conduit systems for hydrothermal alteration.

1)The highest gold value in rock samples was returned from R3028,(Au 2550 ppb)(Table 1) taken from a coarse grained gabbroic rock, in an area associated with an inferred fault and adjacent to a weak EM conductor. Thus L12+50S, 90 meters east of L34W, is the first High Priority diamond drill target. (See Discussion '1'),(map 'South' backpocket).

2)The second High Priority area with potential for two or three diamond drillholes, is the area northwest of the lamprophyre/ gabbroic sill. This next target is the area of the outcrop at L37+95W, 2+75N which returned 90th and 95th percentile Zn, Mo, Ag, and trace Au in R3071A,B (map `North' backpocket). It is a sheared, schist in rhyolite adjacent to the gabbro rhyolite interface and intruded by QFP. A nearby fault system may be part of a conduit related to a hydrothermal system engendered by the lamprophyre. Adjacent to the area of the fault is trace gold as well as Ag, Zn, Cr, Ni mineralization in soils and rocks (See Discussion '2' above). In addition the outcrop at L41W, 5+00N, as well as the outcrop at L44W,3+00N should be considered for potential diamond drilling. The outcrop at L41W, 5+00N is near the central area of the potential conduit system, (map 'North' backpocket)(Appendix B).

3)The area between L27W to L34w at 7+00S is the third High Priority area where one or two drillholes should be considered. 90th and 95th percentile, Cu, Zn and some Ni and trace gold values were returned from various soils and rock samples, from this area. The bedrock at this location is within altered schists in fine grained' basalt near the basalt/gabbro interface and related to magnetic low areas.(see Discussion '3' above)(map 'South' backpocket).

Recommendations cont'd

4)The area south of Uphill Lake and west of Sunshine is another High Priority area due to the presence of Zn anomolies and elevated Mo values. The felsic unit is also the same bedrock (and the area is proximal to) as a known zinc showing at the portage between Uphill and Sunshine Lakes (not on the grid). One drillhole should be drilled at TL 10N, 29W in the sheared rhyolites. Another drillhole might be considered to the north at L32W, 12+00N where pyritized schists returned 95th percentile Zn, Ni and elevated Mo values and (R3048- Table 1). Geologically this area is near the volcanic/sedimetary interface,(Appendices A,B)(See Discussion '4' above). Elevated Mo values were found in two rock samples from L30W, 13+00N,(map 'North' backpocket) related to rhyolite schists adjacent to a granite, and therefore, the outcrop might be considered for drilling.

Several other areas are mentioned in the discussion section and have potential for diamond drill targets (See above - Discussion - items '5 to 11').

Along with the above mentioned targets for diamond drilling, due to the fact that expected true conductors were not delineated by the ground geophysics, it is recommended that an I.P. Survey be undertaken to determine potential buried mineralization based on chargeability. This is to enhance high geochemical and high geophysical areas; thus an I.P. Survey may help to delineate any disseminated sulphides containing possible gold.

REFERENCES

Blackburn, C.E., et al (1991): Wabigoon Sub-Province; in Geology of Ontario [Ed. Pye, E.G.1991)] (1991)] Ontario Geological Survey, Special vol 4, Part1 p 303-382.

Blackburn, C.E.(1981): Geology of the Boyer Lake - Meggisi Lake Area, District of Kenora, O.G.S. G.R. 202, 107p. with Maps 2473 and 2438, 1" to $^{1}/_{2}$mile.

Blackburn, C.E.(1982): Geology of the Manitou Lakes Area, District of Kenora (Stratigraphy and Petrochemistry), O.G.S. G.R. 223, 61p. with Map 2476 and three charts. Map scale 1:50,000.

Explorations Services ENR, Geophysical Survey, (1996) Reports to Black Pearl Minerals Inc. Jensen, L.S., (1976), A New Cation Plot for Classifying Subalkalic Volcanic Rocks. MP.66, (MNR) MNDM, p.22.

Jensen, L.S., (1985) Geology and Petrogenesis of the Archean Abitibi Belt, O.G.S., MP 123, 130 p. with maps P2434, P2435 1" to 1mi, and sheets of microfiche.

JVX Ltd. Geophysical Surveys, (1996) Reports to Black Pearl Minerals Inc.

Kresz, D.U. (1984): Evolution of an Archean Greenstone Belt in the Stormy Lake-Kawshegamuk Lake area, Western Wabigoon Sub-province, Northwestern Ontario, Unpub. M.Sc. Thesis, Brock Univ., In, Parker et al (1988) Gold Mineralization in the Manitou - Stormy Lakes Greenstone Belt, Northwestern Ontario: Nature and Timing, O.G.S.-OMNDM Symposium, Dec. 12-14, 1988. COMDA-ERDA Grant.

Levinson, A.A. (1974): Introduction to Exploration Geochemistry, Applied Publishing Ltd, Calgary, p 612.

References cont'd.

Patterson, G.(1984): Field Trip Guide Book to the Hemlo Area, O.G.S. MP 118, 33p.

Parker, J.R., Blackburn, C.E. and Perrault, M.(1988) Gold Mineralization in the Manitou - Stormy Lakes Greenstone Belt, Northwestern Ontario: Nature and Timing, O.G.S.-OMNDM Symposium, Dec. 12-14, 1988. COMDA-ERDA Grant.

Assessment Files, Kenora Resident Geologists Office.

ACKNOWLEDGMENT

I gratefully acknowledge the help and in-depth information from Charlie Blackburn and the Kenora Resident Geologist's office during the field season and during the preparation of this report. His wide understanding and experience were invaluable. Also many thanks to G. Harron for all his helpful comments and critiques. Thanks also to my assistant, Sean Lourim. Any errors or omissions are entirely my responsibility and should not reflect in any way upon anyone else.

CERTIFICATE

I, Jeanette Lourim, of the City of Toronto, in the Province of Ontario, hereby declare that

1. I am a consulting geologist working from my office at 219 Howland Avenue, of the City of Toronto, Province of Ontario.

2. I hold an Honours B.Sc. as a Geology Specialist from the University of Toronto and a Bachelor of Arts from Wayne State university, in the City of Detroit, USA.

3. I have practiced my profession for twenty-one years for both government and industry in Ontario and for industry in Alberta, British Columbia, Saskatchewan, Manitoba and Quebec.

4. I personally conducted and supervised the geological and geochemical surveys herein reported, with the help of an assistant and am solely responsible for the completed work.

5. I have no direct interest in the property or properties nor do I anticipate receiving such interest.

Date December 4, 96

Jeanette Lourim

Jeanette Lourim and Associates
Consulting Geologists

APPENDIX - A

ROCK SAMPLE LOCATIONS
SOIL SAMPLE LOCATIONS

GEOCHEMICAL ASSAY RESULTS
ROCKS AND SOILS

SUNSHINE LAKE

ASSAYED ROCK SAMPLE LOCATIONS

R3001	21W, 6+75S
R3002	24W, 6+25S
R3003	25W, 10+00S
R3004	24W, 10+25S
R3005	24W, 12+75S
R3007	25W, 15+50S
R3008	23W, 15+65S
R3010	25W, 9+00S
R3011	26W, 10+25S
R3012	26W, 17+50S
R3013	26W, 18+75S
R3014	27W, 15+73S
R3015	18W, 4+60S
R3016	18W, 7+75s
R3017	18W, 7+75S
R3018	20W, 13+45S
R3019	21W, 14+00S
R3021	28+75W, 10N-TLN
R3022	28+75W, 10+25N
R3023	16W, 7+00S
R3024	29+20W, 2+40N
R3025	27W, 0+10N
R3027	35W, 11+70S
R3028	33W, 12+50S
R3030	27W, BL0
R3031	27W, 0+40S
R3032	28+20W, 1+50S
R3033	29W, 0+90S
R3034	29+20W, 3+00S
R3035	29W, 2+35S
R3036	27W, 7+60S
R3040	30+40W, 13+30N
R3041	30W, 13+50N
R3042	30+15W, 13+25N
R3043	30+30W, 13+25N
R3044	31W, 11+40N
R3045	31W, 1+35S
R3047	32W,10N-TLN
R3048	32W, 12+25N
R3050	35+80W, 2N
R3052	27+90W, 9+75S
R3054	29W, 15+00S
R3055	29W, 8+25S
R3070	37+70W, 2+50N
R3071A	37+95W, 2+25N
R3071B	37+95W, 2+25N
R3071C	37+95W, 2+25N
R3072	41W, 5N
R3073	43+50W, 2+20N
R3074	43W, 2+50N
R3075	43+80W, 6+75N
R3076	41W, 9+50N
R3077	33W, TL 10S
R3078	33W, TL 10S
R3079	33W, TL 10S
R3081	30W, TL 10+75S
R3082	31W, 7+25S
R3083	31W, 7+00S
R3084	31+90W, 7+25S
R3085	32+20W, TL 10S
R3086	33W, 7+00S
R3087	35W, 3+50S
R3088	38W, 4+00S
R3089	38W, 4+50S
R3090	44W, 3+00N

SUNSHINE LAKE

SOIL SAMPLES-LOCATIONS

SOILS	LOCATION	SOILS	LOCATIONS
S3001	21W, 5+0CS	S3042	30W, 5+00S
S3002	21W, 9+85S	STH-3001	29+60W, 2+50S
S3003	16W, TL 10S	STH 3002	29W, 1+75S
S3004	16+75W, TL 10S	S3043	29W, 2+35S
S3005	19W, TL 10S	S3044	30W, BL0
S3006	22W, 5+00S	S3045	31W, BL0
S3007	22W, BL0	S3046	32W, BL0
S3008	24W, BL0	S3047	30W, 5+25N
S3009	24W, 5+00S	S3048	30W, TL 10N
S3010	24W, TL 10S	S3049	31W, TL 10N
S3011	24W, 15+00S	S3050	31W, 4+50N
S3012	25W, 15+25S	S3051	31W, 5+00S
S3013	23W, 15+50S	S3052	32W, 5+00S
S3014	23W, TL 10S	S3053	32W, 5+75N
S3015	23W, 5+00S	S3054	32W, 10+20N
S3016	23W, BL0	S3055	33W, 10+50N
S3017	25W, BL0	S3056	33W, 5+00N
S3018	25W, 5+00S	S3057	33W, 5+00N
S3019	25W, TL 10S	S3058	33W, 5+00S
S3020	26W, TL 10S	S3059	34W, 5+00S
S3021	26W, 19+50S	S3060	34W, BL0
S3022	27W, 15+00S	S3061	34W, 5+00N
S3023	27W, TL 10S	S3062	34W, TL 10N
S3024	26W, 5+00S	S3063	36W, TL 10N
S3025	20W, 5+00S	S3064	35W, TL 10N
S3026	18Wm 5+00S	S3065	35W, 5+00N
S3027	21W, 15+00S	S3066	37W, TL 10N
S3028	22W, 15+00S	S3067	37W, 7+00N
S3029	28W, TL 10N	STH-3003	37W. 6+25N
S3030	29W, TL 10N	S3068	28W, 15+00S
S3031	29W, 5+00N	S3069	29W, 15+00S
S3032	29W, BL0	S3070	30W, TL 10+00S
S3033	28W, 0+25S	S3071	37+85W, 2+75N
S3034	26W, BL0	S3072	37W, 5+00N
S3035	37W, 10+25S	S3073	38W, TL 10N
S3036	36W, TL 10S	S3074	39W, 10+25N
S3037	35W, TL 10S	S3075	39W, 5+00N
S3038	34W, TL 10S	S3076	41W, 5+00N
S3039	27W, 5+00S	S3077	42W, 5+00N
S3040	28W, 5+00S	S3078	42W, 2+50S
S3041	29W, 5+00S	S3079	43W, 2+75S

Sunshine Soils (cont'd)

S3080	44W, 3+00N
S3081	43+75W, 6+00N
S3082	41W, TL 10N
S3083	40W, TL 10N
S3084B	30W, 15+00S
S3085	31W, 15+00S
S3086	32W, 14+50S
S3087	31W, TL 10S
S3088	30W, 11+00S
S3090	32W, 7+40S
S3091	33W, 8+20S
S3092	34W, 7+50S
S3093	35W, 3+35S
S3094	36W, 5+00S
S3095	37W, 5+00S
S3096	38W, 5+25S
S3097	39W, 3+65S
S3098	39W, 0+50N
S3099	37W, 0+25N

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R 1060
R 2002-R 2016 /
R 3001-R 3019 /
RH1-H-10 RP1-RP7

A9631968

Comments: ATTN: JEANETTE LOURIM CC: MIKE PICKENS

CERTIFICATE A9631968

(NXV) - LOURIM, JEANETTE & ASSOCIATES

Project:
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	50	Geochem ring to approx 150 mesh
226	50	0-3 Kg crush and split
3202	50	Rock - save entire reject
229	50	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	50	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	50	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	50	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	50	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	50	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	50	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	50	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	50	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	50	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	50	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	50	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	50	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	50	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	50	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	50	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	50	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	50	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	50	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	50	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	50	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	50	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	50	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	50	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	50	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	50	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	50	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	50	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	50	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	50	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	50	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	50	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	50	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	50	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
M5R 3B7

Project :
Comments: ATTN: JEANETTE LOURIM

Certificate Date: 10-OCT-96
Invoice No. : I9634497
P.O. Number :
Account : NXV

CERTIFICATE OF ANALYSIS A9634497

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
S3064	201	229	< 1	< 0.01	15	670	8	< 2	1	22	0.07	< 10	< 10	34	< 10	76
S3065	201	229	< 1	< 0.01	8	90	2	< 2	1	9	0.07	< 10	< 10	20	< 10	16
S3066	201	229	< 1	< 0.01	8	170	6	< 2	1	11	0.06	< 10	< 10	21	< 10	26
S3067	201	229	< 1	< 0.01	8	160	2	< 2	1	9	0.06	< 10	< 10	18	< 10	12
S3068	201	229	< 1	< 0.01	11	130	6	< 2	1	7	0.06	< 10	< 10	35	< 10	18
S3069	201	229	< 1	< 0.01	14	120	6	< 2	2	8	0.07	< 10	< 10	42	< 10	24
S3070	201	229	< 1	< 0.01	8	310	8	< 2	3	6	0.06	< 10	< 10	48	< 10	20
S3071	201	229	< 1	< 0.01	18	160	6	< 2	1	13	0.08	< 10	< 10	31	< 10	18
S3072	201	229	< 1	< 0.01	11	240	2	< 2	1	11	0.07	< 10	< 10	24	< 10	20
S3073	201	229	3	< 0.01	92	1540	26	< 2	3	158	0.13	< 10	< 10	49	< 10	92
S3074	201	229	2	< 0.01	20	350	10	< 2	1	21	0.08	< 10	< 10	44	< 10	48
S3075	201	229	< 1	< 0.01	14	210	2	< 2	2	13	0.07	< 10	< 10	24	< 10	22
S3076	201	229	< 1	< 0.01	20	390	4	< 2	1	9	0.07	< 10	< 10	30	< 10	22
S3077	201	229	< 1	< 0.01	8	210	6	< 2	1	15	0.06	< 10	< 10	25	< 10	30
S3078	201	229	< 1	< 0.01	8	280	2	< 2	1	9	0.06	< 10	< 10	24	< 10	24
S3079	201	229	< 1	< 0.01	11	690	8	< 2	1	9	0.06	< 10	< 10	32	< 10	52
S3080	201	229	< 1	< 0.01	13	150	4	< 2	1	13	0.09	< 10	< 10	27	< 10	18
S3081	201	229	< 1	< 0.01	27	540	6	< 2	3	13	0.10	< 10	< 10	42	< 10	36
S3082	217	229	< 1	< 0.01	26	500	18	< 2	1	28	0.06	< 10	< 10	30	< 10	52
S3083	201	229	3	< 0.01	19	220	10	< 2	1	11	0.09	< 10	< 10	47	< 10	40
S3084A	201	229	< 1	< 0.01	13	230	4	< 2	2	12	0.08	< 10	< 10	31	< 10	20
S3084B	201	229	1	< 0.01	18	190	8	< 2	1	11	0.09	< 10	< 10	43	< 10	28
S3085	201	229	< 1	< 0.01	17	220	6	< 2	2	10	0.09	< 10	< 10	38	< 10	26
S3086	201	229	< 1	< 0.01	14	160	8	< 2	1	8	0.06	< 10	< 10	34	< 10	28
S3087	201	229	< 1	< 0.01	5	80	6	< 2	< 1	5	0.06	< 10	< 10	18	< 10	10
S3088	201	229	< 1	< 0.01	13	90	6	< 2	3	10	0.07	< 10	< 10	32	< 10	18
S3089	217	229	< 1	< 0.01	38	330	8	< 2	6	6	0.09	< 10	< 10	96	< 10	176
S3090	201	229	< 1	< 0.01	20	320	8	< 2	1	6	0.06	< 10	< 10	40	< 10	94
S3091	201	229	< 1	< 0.01	10	140	6	< 2	1	7	0.06	< 10	< 10	33	< 10	26
S3092	201	229	< 1	< 0.01	4	130	6	< 2	< 1	7	0.04	< 10	< 10	16	< 10	16
S3093	201	229	< 1	< 0.01	19	130	6	< 2	3	12	0.06	< 10	< 10	29	< 10	20
S3094	201	229	< 1	< 0.01	11	90	6	< 2	1	7	0.04	< 10	< 10	19	< 10	18
S3095	201	229	< 1	< 0.01	25	290	6	< 2	1	13	0.08	< 10	< 10	32	< 10	32
S3096	201	229	< 1	< 0.01	19	440	6	< 2	1	8	0.07	< 10	< 10	36	< 10	26
S3097	201	229	< 1	< 0.01	21	230	2	< 2	1	13	0.08	< 10	< 10	32	< 10	26
S3098	201	229	< 1	< 0.01	12	100	4	< 2	1	8	0.08	< 10	< 10	38	< 10	14
S3099	201	229	< 1	< 0.01	11	80	4	< 2	1	11	0.09	< 10	< 10	35	< 10	16

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
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Project :
Comments: ATTN: JEANETTE LOURIM CC: MIKE PICKENS

Page Number : 1-A
Total Pages : 2
Certificate Date: 24-SEP-96
Invoice No. : I9631968
P.O. Number :
Account : NXV

CERTIFICATE OF ANALYSIS A9631968

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
R1060	205	226	< 5	< 0.2	0.30	< 2	30	< 0.5	< 2	0.15	< 0.5	1	194	4	0.61	< 10	< 1	0.10	< 10	0.13	65
R2002	205	226	< 5	0.8	0.96	< 2	30	< 0.5	2	1.10	< 0.5	8	84	98	1.26	< 10	< 1	0.21	< 10	0.39	145
R2003	205	226	< 5	< 0.2	2.56	< 2	30	< 0.5	< 2	0.57	< 0.5	27	41	67	5.25	10	< 1	0.01	< 10	1.56	735
R2004	205	226	< 5	0.2	0.23	< 2	90	< 0.5	2	0.62	< 0.5	3	50	39	0.63	< 10	< 1	0.11	< 10	0.08	65
R2005	205	226	< 5	< 0.2	0.34	6	40	< 0.5	4	0.11	< 0.5	1	194	8	0.66	< 10	< 1	0.17	< 10	0.07	40
R2006	205	226	45	5.8	2.60	< 2	170	< 0.5	64	1.11	< 0.5	28	192	150	6.23	< 10	< 1	1.44	< 10	2.76	930
R2007	205	226	20	0.2	2.00	< 2	110	< 0.5	< 2	1.57	< 0.5	34	110	156	6.00	< 10	< 1	0.81	< 10	1.88	780
R2008	205	226	10	0.2	0.27	2	70	< 0.5	< 2	0.39	< 0.5	3	54	10	0.78	< 10	< 1	0.15	< 10	0.09	110
R2009	205	226	< 5	< 0.2	1.63	< 2	50	< 0.5	< 2	3.14	< 0.5	19	140	3	3.01	10	< 1	0.13	30	2.91	555
R2010	205	226	5400	88.2	2.04	100	30	< 0.5	8	0.47	< 0.5	53	302	341	7.78	< 10	< 1	1.37	< 10	1.76	470
R2011	205	226	55	1.4	2.11	< 2	30	0.5	< 2	1.96	< 0.5	29	66	155	4.22	< 10	< 1	0.25	< 10	1.08	610
R2012	205	226	35	0.6	1.70	2	60	< 0.5	< 2	1.25	< 0.5	29	90	101	6.14	< 10	< 1	0.67	< 10	1.53	560
R2013	205	226	< 5	0.2	0.85	< 2	60	< 0.5	< 2	1.04	< 0.5	18	108	80	1.77	< 10	< 1	0.24	< 10	0.80	290
R2014	205	226	10	< 0.2	1.70	< 2	380	< 0.5	< 2	0.70	< 0.5	17	106	28	2.40	< 10	< 1	1.07	30	1.48	295
R2015	205	226	< 5	0.4	2.05	< 2	110	< 0.5	< 2	1.32	< 0.5	35	55	153	5.59	< 10	< 1	0.24	< 10	1.48	600
R2016	205	226	< 5	< 0.2	1.06	< 2	40	< 0.5	< 2	1.27	< 0.5	15	53	67	2.39	< 10	< 1	0.03	< 10	0.45	295
R3001	205	226	< 5	0.2	7.69	< 2	< 10	< 0.5	< 2	1.95	< 0.5	35	170	55	8.22	10	< 1	0.01	< 10	2.69	805
R3002	205	226	< 5	< 0.2	4.27	< 2	< 10	< 0.5	< 2	1.25	< 0.5	31	50	22	4.02	10	< 1	0.01	< 10	2.63	445
R3003	205	226	< 5	< 0.2	1.97	< 2	10	< 0.5	< 2	1.24	< 0.5	25	33	139	3.42	< 10	< 1	0.09	< 10	1.02	360
R3004	205	226	10	< 0.2	1.83	< 2	10	< 0.5	< 2	1.11	< 0.5	20	57	116	2.95	< 10	< 1	0.09	< 10	1.20	330
R3005	205	226	< 5	< 0.2	1.20	< 2	< 10	< 0.5	< 2	1.05	< 0.5	29	20	65	4.87	< 10	< 1	0.04	< 10	0.63	290
R3007	205	226	< 5	< 0.2	3.04	< 2	360	< 0.5	< 2	0.87	< 0.5	18	69	29	3.58	10	< 1	1.30	10	1.49	315
R3008	205	226	< 5	< 0.2	1.42	< 2	80	< 0.5	< 2	0.78	< 0.5	20	23	20	6.34	10	< 1	0.26	< 10	0.83	335
R3010	205	226	< 5	< 0.2	3.05	< 2	10	< 0.5	< 2	1.62	< 0.5	19	65	134	3.09	< 10	< 1	0.01	< 10	1.13	310
R3011	205	226	< 5	< 0.2	4.55	< 2	< 10	< 0.5	< 2	2.05	< 0.5	25	39	132	3.22	10	< 1	0.01	< 10	1.41	260
R3012	205	226	< 5	< 0.2	2.35	2	20	< 0.5	< 2	1.17	< 0.5	25	45	128	3.70	< 10	< 1	0.04	< 10	1.31	385
R3013	205	226	< 5	< 0.2	0.04	< 2	< 10	< 0.5	< 2	0.02	< 0.5	< 1	193	4	0.24	< 10	< 1	< 0.01	< 10	0.02	20
R3014	205	226	< 5	< 0.2	1.67	< 2	1080	< 0.5	< 2	0.71	< 0.5	33	72	306	5.45	< 10	< 1	0.70	< 10	1.71	250
R3015	205	226	< 5	< 0.2	2.94	< 2	560	< 0.5	< 2	0.80	< 0.5	28	326	80	3.24	10	< 1	2.26	10	3.35	365
R3016	205	226	< 5	< 0.2	2.70	< 2	10	< 0.5	< 2	1.25	< 0.5	20	52	107	2.66	< 10	< 1	0.01	< 10	1.13	235
R3017	205	226	< 5	< 0.2	1.63	< 2	100	< 0.5	< 2	0.68	< 0.5	26	107	105	4.73	10	< 1	0.25	< 10	1.35	635
R3018	205	226	< 5	< 0.2	2.99	< 2	10	< 0.5	< 2	2.27	< 0.5	10	38	82	1.64	< 10	< 1	0.02	< 10	0.46	250
R3019	205	226	< 5	< 0.2	1.06	< 2	10	< 0.5	< 2	0.97	< 0.5	18	82	55	2.95	< 10	< 1	0.06	< 10	0.86	245
R-H1	205	226	< 5	< 0.2	0.08	< 2	< 10	< 0.5	< 2	0.06	< 0.5	1	255	4	0.41	< 10	< 1	0.01	< 10	0.04	30
R-H3	205	226	< 5	< 0.2	1.30	< 2	140	< 0.5	< 2	0.44	< 0.5	12	216	31	1.66	< 10	< 1	0.97	30	1.19	280
R-H4	205	226	< 5	< 0.2	1.06	< 2	130	< 0.5	< 2	0.47	< 0.5	12	219	27	1.54	< 10	< 1	0.36	20	1.14	230
R-H5	205	226	< 5	< 0.2	0.63	< 2	70	< 0.5	< 2	0.17	< 0.5	4	91	8	0.59	< 10	< 1	0.29	< 10	0.25	95
R-H6	205	226	< 5	< 0.2	1.32	< 2	100	< 0.5	< 2	0.40	< 0.5	8	86	49	1.21	< 10	< 1	0.87	10	1.06	185
R-H7	205	226	< 5	< 0.2	1.19	< 2	140	< 0.5	< 2	0.41	< 0.5	5	110	8	1.28	< 10	< 1	0.65	20	0.80	260
R-H8	205	226	< 5	< 0.2	1.50	< 2	300	< 0.5	< 2	0.80	< 0.5	12	113	39	1.95	< 10	< 1	1.12	20	1.08	290

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
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Project :
Comments: ATTN: JEANETTE LOURIM CC: MIKE PICKENS

Page Number :1-B
Total Pages :2
Certificate Date: 24-SEP-96
Invoice No. :I9631968
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9631968

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
R1060	205	226	< 1	0.05	6	100	< 2	< 2	< 1	17	0.03	< 10	< 10	6	< 10	8
R2002	205	226	18	0.03	23	120	< 2	< 2	4	17	0.16	< 10	< 10	40	< 10	10
R2003	205	226	< 1	< 0.01	23	440	< 2	< 2	2	8	0.21	< 10	< 10	85	< 10	68
R2004	205	226	67	0.04	3	220	6	< 2	< 1	62	0.01	< 10	< 10	3	< 10	8
R2005	205	226	61	0.05	4	160	2	< 2	< 1	11	0.01	< 10	< 10	6	< 10	6
R2006	205	226	81	0.06	91	180	6	< 2	3	17	0.18	< 10	< 10	71	< 10	78
R2007	205	226	8	0.10	43	230	< 2	< 2	11	21	0.20	< 10	< 10	180	30	66
R2008	205	226	5	0.05	6	180	12	< 2	< 1	21	0.01	< 10	< 10	4	< 10	34
R2009	205	226	< 1	0.02	97	1170	6	< 2	3	390	< 0.01	< 10	< 10	17	< 10	72
R2010	205	226	68	0.08	128	150	6	< 2	16	14	0.20	< 10	< 10	306	50	36
R2011	205	226	63	0.25	33	240	< 2	8	13	21	0.16	< 10	< 10	102	< 10	30
R2012	205	226	19	0.14	37	310	< 2	8	15	12	0.26	< 10	< 10	179	< 10	52
R2013	205	226	56	0.06	22	170	< 2	< 2	8	4	0.14	< 10	< 10	57	< 10	28
R2014	205	226	< 1	0.05	62	560	6	2	2	46	0.26	< 10	< 10	49	< 10	60
R2015	205	226	10	0.11	28	310	< 2	< 2	11	19	0.16	< 10	< 10	149	< 10	52
R2016	205	226	12	0.08	17	180	< 2	< 2	5	11	0.14	< 10	< 10	59	< 10	26
R3001	205	226	< 1	0.11	49	240	< 2	< 2	17	36	0.05	< 10	< 10	233	< 10	74
R3002	205	226	< 1	0.19	104	10	< 2	< 2	1	38	0.09	< 10	< 10	50	< 10	40
R3003	205	226	< 1	0.12	19	460	< 2	< 2	5	14	0.10	< 10	< 10	93	< 10	38
R3004	205	226	1	0.12	28	360	< 2	< 2	7	19	0.08	< 10	< 10	76	< 10	40
R3005	205	226	< 1	0.14	2	330	< 2	< 2	8	7	0.13	< 10	< 10	262	< 10	24
R3007	205	226	< 1	0.11	42	550	2	< 2	6	56	0.18	< 10	< 10	136	< 10	54
R3008	205	226	< 1	0.10	3	460	< 2	2	10	28	0.10	< 10	< 10	49	< 10	48
R3010	205	226	3	0.25	32	280	2	< 2	4	34	0.14	< 10	< 10	62	< 10	32
R3011	205	226	< 1	0.34	60	240	< 2	< 2	1	37	0.07	< 10	< 10	42	< 10	42
R3012	205	226	< 1	0.15	36	280	< 2	< 2	6	17	0.11	< 10	< 10	86	< 10	40
R3013	205	226	< 1	0.01	3	< 10	< 2	< 2	< 1	< 1	< 0.01	< 10	< 10	2	< 10	< 2
R3014	205	226	< 1	0.05	36	300	2	< 2	5	118	0.17	< 10	< 10	194	< 10	96
R3015	205	226	< 1	0.01	219	1190	2	< 2	1	83	0.22	< 10	< 10	82	< 10	28
R3016	205	226	< 1	0.26	40	230	< 2	< 2	4	20	0.08	< 10	< 10	48	< 10	30
R3017	205	226	< 1	0.12	38	280	< 2	< 2	8	4	0.11	< 10	< 10	135	< 10	66
R3018	205	226	< 1	0.19	11	360	< 2	< 2	6	68	0.06	< 10	< 10	46	< 10	28
R3019	205	226	< 1	0.06	35	310	< 2	< 2	5	15	0.07	< 10	< 10	95	< 10	20
R-H1	205	226	< 1	0.01	5	10	2	< 2	< 1	2	< 0.01	< 10	< 10	5	< 10	2
R-H3	205	226	< 1	0.03	43	830	8	< 2	1	47	0.15	< 10	< 10	46	< 10	34
R-H4	205	226	< 1	0.03	50	900	4	< 2	1	81	0.12	< 10	< 10	41	< 10	32
R-H5	205	226	< 1	0.02	14	270	8	< 2	< 1	23	0.03	< 10	< 10	6	< 10	14
R-H6	205	226	< 1	0.05	22	260	4	< 2	1	31	0.07	< 10	< 10	21	< 10	36
R-H7	205	226	< 1	0.06	18	350	10	< 2	2	42	0.07	< 10	< 10	23	< 10	26
R-H8	205	226	2	0.05	42	570	12	< 2	2	46	0.12	< 10	< 10	35	< 10	54

CERTIFICATION: Ian Buchler

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To: LOURIM, JEANETTE & ASSOCIATES **
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219 HOWLAND AVE.
TORONTO, ON
M5R 3B7

Project :
Comments: ATTN: JEANETTE LOURIM

CERTIFICATE OF ANALYSIS A9634498

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
R1101	205 226	25	0.2	1.51	4	< 10	< 0.5	< 2	1.57	< 0.5	68	116	322	4.21	< 10	< 1	< 0.01	< 10	0.33	245
R1102	205 226	10	< 0.2	1.51	< 2	< 10	< 0.5	< 2	1.58	< 0.5	44	82	363	3.49	< 10	1	< 0.01	20	0.36	175
R1103	205 226	< 5	< 0.2	2.98	< 2	< 10	< 0.5	< 2	1.95	< 0.5	18	98	173	1.57	< 10	< 1	0.01	< 10	0.50	240
R1104	205 226	< 5	< 0.2	1.08	2	10	< 0.5	< 2	0.87	< 0.5	36	48	177	10.45	< 10	< 1	0.01	< 10	0.30	160
R1105	205 226	< 5	< 0.2	1.38	< 2	< 10	< 0.5	< 2	0.55	< 0.5	19	55	136	11.65	< 10	< 1	0.03	< 10	0.60	275
R2017	205 226	45	< 0.2	0.34	2	60	< 0.5	< 2	0.56	< 0.5	3	68	13	0.76	< 10	< 1	0.18	< 10	0.12	150
R2018	205 226	< 5	< 0.2	0.32	8	70	< 0.5	< 2	0.40	< 0.5	2	69	9	0.72	< 10	< 1	0.17	< 10	0.10	155
R2019	205 226	550	11.8	3.08	88	10	0.5	20	0.81	< 0.5	47	244	56	8.36	< 10	3	1.39	< 10	1.96	510
R2020	205 226	35	0.6	1.19	14	80	< 0.5	< 2	3.36	< 0.5	23	97	171	2.29	< 10	< 1	0.29	< 10	0.92	525
R2022	205 226	< 5	< 0.2	0.04	< 2	< 10	< 0.5	< 2	0.06	< 0.5	1	136	14	0.21	< 10	< 1	< 0.01	< 10	0.03	50
R2023	205 226	< 5	0.4	1.45	< 2	50	< 0.5	< 2	1.42	< 0.5	16	101	100	1.90	< 10	1	0.23	< 10	0.95	295
R3021	205 226	< 5	< 0.2	1.47	< 2	90	< 0.5	< 2	0.91	< 0.5	13	98	7	1.87	< 10	< 1	0.29	30	0.97	320
R3022	205 226	< 5	< 0.2	1.37	2	80	< 0.5	< 2	0.53	< 0.5	12	154	16	2.07	< 10	< 1	0.28	30	0.92	300
R3023	205 226	< 5	< 0.2	1.48	< 2	170	< 0.5	< 2	1.26	< 0.5	8	103	11	1.56	< 10	< 1	0.81	10	1.03	275
R3024	205 226	< 5	< 0.2	2.27	2	10	< 0.5	< 2	0.94	< 0.5	19	127	4	2.60	< 10	< 1	0.02	< 10	1.73	430
R3025	205 226	< 5	< 0.2	3.84	2	10	< 0.5	< 2	0.82	< 0.5	42	152	34	4.50	< 10	1	0.03	< 10	3.53	635
R3027	205 226	< 5	< 0.2	1.42	< 2	< 10	< 0.5	< 2	1.75	< 0.5	8	51	20	4.53	< 10	< 1	0.07	< 10	0.29	660
R3028	205 226	2550	< 0.2	1.36	< 2	30	< 0.5	< 2	1.03	< 0.5	12	43	12	4.77	< 10	< 1	0.12	< 10	0.65	460
R3030	205 226	20	< 0.2	3.39	< 2	10	< 0.5	< 2	0.65	< 0.5	34	133	16	4.49	< 10	< 1	0.01	< 10	3.11	685
R3031	205 226	15	< 0.2	3.19	< 2	10	< 0.5	< 2	0.58	< 0.5	31	111	90	4.01	< 10	1	0.03	< 10	2.70	540
R3032	205 226	15	< 0.2	1.38	< 2	< 10	< 0.5	< 2	0.61	< 0.5	17	75	139	2.22	< 10	< 1	0.01	< 10	0.94	275
R3033	205 226	< 5	0.2	2.56	2	10	< 0.5	< 2	1.33	< 0.5	24	87	96	3.73	< 10	1	0.04	< 10	1.78	470
R3034	205 226	< 5	< 0.2	1.49	52	< 10	< 0.5	< 2	0.63	< 0.5	16	76	108	2.36	< 10	< 1	< 0.01	< 10	1.05	275
R3035	205 226	< 5	< 0.2	0.20	20	70	< 0.5	< 2	0.83	< 0.5	10	111	6	1.36	< 10	< 1	0.08	10	0.28	380
R3036	205 226	10	< 0.2	1.77	< 2	100	< 0.5	< 2	0.87	< 0.5	60	49	512	4.20	< 10	< 1	0.35	< 10	1.05	285
R3040	205 226	< 5	0.2	1.43	2	70	< 0.5	< 2	0.09	< 0.5	7	66	8	1.64	< 10	< 1	0.11	< 10	1.21	180
R3041	205 226	< 5	< 0.2	1.12	< 2	90	< 0.5	< 2	0.73	< 0.5	14	63	24	1.12	< 10	< 1	0.15	40	0.71	215
R3042	205 226	< 5	0.2	1.37	< 2	110	< 0.5	< 2	0.33	< 0.5	8	65	24	1.18	< 10	< 1	0.10	10	1.28	150
R3043	205 226	< 5	< 0.2	1.95	< 2	50	< 0.5	< 2	1.99	< 0.5	6	45	12	1.54	< 10	< 1	0.11	30	1.77	455
R3044	205 226	10	0.2	0.27	6	30	< 0.5	< 2	0.98	< 0.5	5	166	5	0.92	< 10	< 1	0.08	< 10	0.29	155
R3045	205 226	< 5	< 0.2	1.58	< 2	< 10	< 0.5	< 2	0.96	< 0.5	18	90	99	2.83	< 10	< 1	0.02	< 10	1.03	385
R3047	205 226	< 5	0.2	1.64	12	120	< 0.5	< 2	1.09	< 0.5	20	164	50	1.76	< 10	< 1	0.75	50	0.92	325
R3048	205 226	< 5	< 0.2	3.06	< 2	190	< 0.5	< 2	1.82	< 0.5	26	130	26	5.48	< 10	1	1.03	30	2.17	1005
R3050	205 226	< 5	0.2	3.53	< 2	350	0.5	< 2	2.78	< 0.5	23	189	75	4.24	< 10	1	2.54	40	2.67	725
R3052	205 226	< 5	< 0.2	1.22	< 2	10	< 0.5	< 2	0.86	< 0.5	10	20	61	3.10	< 10	< 1	0.05	< 10	0.83	255
R3054	205 226	< 5	< 0.2	1.38	< 2	10	< 0.5	< 2	1.92	< 0.5	11	32	18	3.78	< 10	< 1	0.06	< 10	0.64	435
R3055	205 226	< 5	< 0.2	3.93	< 2	30	< 0.5	< 2	0.37	< 0.5	12	100	48	4.08	< 10	1	0.13	< 10	3.47	520
R3070	205 226	< 5	< 0.2	1.29	< 2	170	< 0.5	< 2	0.36	< 0.5	10	104	5	1.83	< 10	< 1	0.77	< 10	0.70	190
R3071A	205 226	< 5	< 0.2	2.36	4	280	< 0.5	< 2	0.52	< 0.5	29	131	29	4.33	< 10	1	1.02	10	1.34	885
R3071B	205 226	< 5	0.2	2.57	< 2	250	< 0.5	< 2	0.39	0.5	38	131	45	4.05	< 10	< 1	1.29	10	1.48	705

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
M5R 3B7

Project :
Comments: ATTN: JEANETTE LOURIM

Page Number :1-B
Total Pages :2
Certificate Date: 10-OCT-96
Invoice No. :I9634498
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9634498

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
R1101	205	226	3	< 0.01	110	150	2	< 2	4	5	0.16	< 10	< 10	38	< 10	204
R1102	205	226	1	< 0.01	62	220	2	< 2	1	6	0.08	< 10	< 10	11	< 10	188
R1103	205	226	1	0.21	46	250	< 2	< 2	4	17	0.08	< 10	< 10	38	< 10	40
R1104	205	226	< 1	0.10	36	240	2	< 2	3	14	0.15	< 10	< 10	34	< 10	24
R1105	205	226	< 1	0.05	29	250	2	< 2	2	7	0.21	< 10	< 10	47	< 10	22
R2017	205	226	4	0.04	5	180	8	< 2	< 1	29	0.02	< 10	< 10	4	< 10	22
R2018	205	226	6	0.05	4	200	10	2	< 1	26	0.02	< 10	< 10	4	< 10	34
R2019	205	226	190	0.20	130	190	8	< 2	14	23	0.11	< 10	< 10	257	30	40
R2020	205	226	37	0.07	63	110	2	< 2	4	40	0.08	< 10	< 10	46	60	16
R2022	205	226	1	< 0.01	4	< 10	< 2	< 2	< 1	< 1	< 0.01	< 10	< 10	1	< 10	< 2
R2023	205	226	53	0.12	41	110	< 2	< 2	6	17	0.13	< 10	< 10	51	< 10	18
R3021	205	226	1	0.01	86	850	2	< 2	3	72	0.10	< 10	< 10	13	< 10	48
R3022	205	226	5	0.03	78	710	14	< 2	4	101	0.12	< 10	< 10	28	< 10	56
R3023	205	226	1	0.05	34	430	6	< 2	1	75	0.10	< 10	< 10	23	< 10	48
R3024	205	226	1	0.01	37	160	2	< 2	2	21	0.19	< 10	< 10	38	< 10	28
R3025	205	226	2	0.05	163	170	2	< 2	1	22	0.12	< 10	< 10	42	< 10	44
R3027	205	226	2	0.13	3	1540	2	< 2	8	7	0.04	< 10	< 10	1	< 10	68
R3028	205	226	3	0.08	4	1000	< 2	< 2	7	10	0.06	< 10	< 10	51	< 10	56
R3030	205	226	< 1	0.02	117	170	30	< 2	1	8	0.15	< 10	< 10	41	< 10	56
R3031	205	226	1	0.04	119	180	< 2	< 2	1	11	0.15	< 10	< 10	44	< 10	54
R3032	205	226	< 1	0.06	42	140	< 2	< 2	2	7	0.10	< 10	< 10	34	< 10	28
R3033	205	226	1	0.07	58	240	< 2	< 2	6	49	0.21	< 10	< 10	74	< 10	46
R3034	205	226	1	0.06	38	200	< 2	< 2	3	8	0.12	< 10	< 10	45	< 10	26
R3035	205	226	1	0.01	21	420	4	< 2	1	42	< 0.01	< 10	< 10	5	< 10	8
R3036	205	226	1	0.09	37	330	< 2	< 2	6	16	0.11	< 10	< 10	76	< 10	152
R3040	205	226	4	0.01	72	230	12	< 2	< 1	47	0.02	< 10	< 10	8	< 10	42
R3041	205	226	1	0.04	67	920	2	< 2	3	120	0.08	< 10	< 10	18	< 10	66
R3042	205	226	9	0.03	42	300	20	< 2	1	61	0.03	< 10	< 10	10	< 10	38
R3043	205	226	1	0.01	40	270	10	< 2	1	129	0.06	< 10	< 10	15	< 10	50
R3044	205	226	3	0.01	26	160	14	< 2	1	46	0.02	< 10	< 10	7	< 10	16
R3045	205	226	< 1	0.10	40	180	2	< 2	6	7	0.14	< 10	< 10	69	< 10	32
R3047	205	226	2	0.03	114	850	28	< 2	4	134	0.14	< 10	< 10	26	< 10	54
R3048	205	226	4	< 0.01	189	670	10	< 2	5	195	0.14	< 10	< 10	43	< 10	174
R3050	205	226	3	0.02	65	1580	6	< 2	5	141	0.25	< 10	< 10	111	< 10	66
R3052	205	226	1	0.07	11	510	4	< 2	5	16	0.15	< 10	< 10	94	< 10	26
R3054	205	226	1	0.09	4	1380	< 2	< 2	8	17	0.06	< 10	< 10	5	< 10	46
R3055	205	226	< 1	0.03	28	330	< 2	< 2	4	19	0.12	< 10	< 10	77	< 10	60
R3070	205	226	1	0.07	25	400	12	< 2	1	78	0.11	< 10	< 10	21	< 10	32
R3071A	205	226	1	0.02	82	690	26	< 2	6	22	0.22	< 10	< 10	71	< 10	116
R3071B	205	226	2	0.03	95	630	14	< 2	5	22	0.21	< 10	< 10	67	< 10	184

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
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Project :
Comments: ATTN: JEANETTE LOURIM

Page Number :2-A
Total Pages :2
Certificate Date: 10-OCT-96
Invoice No. : I9634498
P.O. Number :
Account : NXV

CERTIFICATE OF ANALYSIS A9634498

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
R3071C	205	226	10	0.2	1.50	4	170	< 0.5	< 2	0.30	< 0.5	11	129	13	1.84	< 10	< 1	0.74	10	0.69	230
R3072	205	226	< 5	0.2	2.40	2	150	< 0.5	< 2	0.67	< 0.5	29	338	27	3.31	< 10	< 1	1.37	30	2.28	445
R3073	205	226	< 5	< 0.2	6.42	< 2	10	< 0.5	< 2	3.08	< 0.5	16	65	15	2.78	< 10	1	0.04	< 10	1.49	195
R3074	205	226	< 5	< 0.2	4.69	< 2	20	< 0.5	< 2	2.65	< 0.5	13	49	28	2.24	< 10	1	0.05	< 10	1.22	270
R3075	205	226	< 5	< 0.2	1.39	< 2	90	< 0.5	< 2	0.70	< 0.5	8	96	8	1.61	< 10	< 1	0.27	10	1.14	220
R3076	205	226	< 5	< 0.2	1.48	2	50	< 0.5	< 2	0.80	< 0.5	14	132	14	2.20	< 10	< 1	0.16	30	1.03	315
R3077	205	226	< 5	< 0.2	5.11	< 2	< 10	< 0.5	< 2	0.57	< 0.5	44	87	155	8.59	< 10	1	0.01	< 10	3.54	685
R3078	205	226	< 5	< 0.2	2.57	< 2	< 10	< 0.5	< 2	1.19	< 0.5	29	47	133	3.99	< 10	< 1	0.03	< 10	1.50	375
R3079	205	226	< 5	< 0.2	2.85	< 2	< 10	< 0.5	< 2	1.00	< 0.5	29	58	87	4.49	< 10	< 1	0.02	< 10	1.90	435
R3081	205	226	< 5	< 0.2	1.26	< 2	< 10	< 0.5	< 2	4.73	< 0.5	10	36	20	1.62	< 10	< 1	< 0.01	< 10	0.76	350
R3082	205	226	< 5	< 0.2	1.45	< 2	< 10	< 0.5	< 2	0.75	< 0.5	21	69	92	2.97	< 10	< 1	0.01	< 10	1.03	400
R3083	205	226	< 5	< 0.2	1.77	< 2	< 10	< 0.5	< 2	0.84	< 0.5	19	84	115	3.98	< 10	< 1	0.03	< 10	1.30	410
R3084	205	226	< 5	< 0.2	2.03	< 2	< 10	< 0.5	< 2	1.62	< 0.5	13	51	35	1.59	< 10	< 1	0.01	< 10	0.46	200
R3085	205	226	< 5	< 0.2	2.26	< 2	< 10	< 0.5	< 2	0.85	< 0.5	21	29	42	3.39	< 10	1	0.01	< 10	1.67	295
R3086	205	226	< 5	< 0.2	1.64	< 2	30	< 0.5	< 2	0.93	< 0.5	33	65	143	3.51	< 10	2	0.14	< 10	0.99	315
R3087	205	226	< 5	< 0.2	1.97	< 2	< 10	< 0.5	< 2	0.81	< 0.5	20	76	114	3.13	< 10	< 1	0.03	< 10	1.48	315
R3088	205	226	< 5	< 0.2	1.92	2	< 10	< 0.5	< 2	1.40	< 0.5	20	68	108	2.40	< 10	< 1	0.01	< 10	0.71	320
R3089	205	226	< 5	< 0.2	2.54	< 2	< 10	< 0.5	< 2	1.75	< 0.5	10	124	154	1.65	< 10	1	0.01	< 10	0.64	250
R3090	205	226	< 5	< 0.2	2.37	< 2	30	< 0.5	< 2	1.38	< 0.5	19	46	109	2.86	< 10	1	0.06	< 10	1.10	330
R13001	205	226	< 5	0.2	0.90	2	60	< 0.5	< 2	0.11	< 0.5	8	107	59	0.76	< 10	< 1	0.10	10	0.69	105

CERTIFICATION: _____

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Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
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Project :
Comments: ATTN: JEANETTE LOURIM

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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
R3071C	205	226	4	0.06	42	430	20	< 2	1	36	0.08	< 10	< 10	19	< 10	36
R3072	205	226	2	< 0.01	119	1650	28	< 2	2	56	0.17	< 10	< 10	71	< 10	48
R3073	205	226	1	0.48	51	260	< 2	2	1	98	0.07	< 10	< 10	52	< 10	32
R3074	205	226	2	0.38	31	390	< 2	< 2	2	78	0.08	< 10	< 10	50	< 10	30
R3075	205	226	1	0.03	43	520	6	< 2	1	107	0.15	< 10	< 10	32	< 10	42
R3076	205	226	1	0.03	84	930	6	< 2	3	197	0.13	< 10	< 10	35	< 10	56
R3077	205	226	1	0.03	48	390	2	< 2	7	9	0.21	< 10	< 10	184	< 10	62
R3078	205	226	2	0.14	45	400	< 2	< 2	5	16	0.15	< 10	< 10	106	< 10	32
R3079	205	226	1	0.08	49	430	< 2	< 2	5	14	0.17	< 10	< 10	109	< 10	40
R3081	205	226	< 1	0.01	16	320	< 2	< 2	3	22	0.13	< 10	< 10	50	< 10	12
R3082	205	226	1	0.07	29	240	< 2	< 2	5	3	0.10	< 10	< 10	58	< 10	40
R3083	205	226	1	0.08	31	270	< 2	< 2	8	4	0.12	< 10	< 10	91	< 10	48
R3084	205	226	< 1	0.25	20	220	< 2	< 2	5	21	0.11	< 10	< 10	46	< 10	16
R3085	205	226	1	0.07	57	310	< 2	< 2	3	21	0.14	< 10	< 10	76	< 10	30
R3086	205	226	1	0.12	46	230	< 2	< 2	6	12	0.15	< 10	< 10	74	< 10	38
R3087	205	226	1	0.07	46	240	< 2	< 2	4	9	0.14	< 10	< 10	65	< 10	36
R3088	205	226	1	0.19	50	210	< 2	< 2	5	20	0.09	< 10	< 10	62	< 10	26
R3089	205	226	1	0.21	21	140	< 2	< 2	4	35	0.10	< 10	< 10	45	< 10	20
R3090	205	226	1	0.16	22	310	< 2	< 2	4	24	0.10	< 10	< 10	94	< 10	40
R13001	205	226	< 1	0.01	49	250	6	< 2	< 1	17	0.02	< 10	< 10	6	< 10	22

CERTIFICATION:

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To: LOURIM, JEANETTE & ASSOCIATES
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S1,27 - 125 ✓
STH 3001 - 3003
S3029 - S3044

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Total Pages :2
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CERTIFICATE OF ANALYSIS A9634497

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
S1127	201	229	< 5	< 0.2	2.49	2	50	< 0.5	< 2	0.14	< 0.5	15	26	36	1.92	< 10	1	0.04	< 10	0.34	170
S1128	201	229	< 5	< 0.2	2.09	4	70	< 0.5	< 2	0.19	< 0.5	13	26	35	2.19	< 10	< 1	0.04	< 10	0.35	235
STH3001	217	229	< 5	< 0.2	0.19	2	30	< 0.5	< 2	1.81	< 0.5	4	17	54	0.82	< 10	< 1	0.01	10	0.09	150
STH3002	217	229	< 5	< 0.2	0.18	44	550	< 0.5	< 2	1.90	< 0.5	226	6	10	>15.00	< 10	1	0.04	10	0.08	>10000
STH3003	217	229	< 5	< 0.2	1.54	4	100	< 0.5	< 2	0.66	< 0.5	16	44	17	1.96	< 10	< 1	0.06	10	0.32	1455
S3029	201	229	< 5	< 0.2	1.23	< 2	60	< 0.5	< 2	0.28	< 0.5	8	42	7	1.80	< 10	< 1	0.09	10	0.54	270
S3030	201	229	< 5	< 0.2	2.36	2	60	< 0.5	< 2	0.25	< 0.5	8	36	16	2.28	< 10	1	0.06	10	0.51	240
S3031	201	229	< 5	< 0.2	1.73	4	70	< 0.5	< 2	0.40	< 0.5	13	42	12	2.83	< 10	< 1	0.07	10	0.58	1215
S3032	201	229	< 5	< 0.2	1.39	< 2	30	< 0.5	< 2	0.19	< 0.5	7	23	13	1.84	< 10	< 1	0.03	< 10	0.42	140
S3033	201	229	< 5	< 0.2	0.80	< 2	10	< 0.5	< 2	0.14	< 0.5	4	19	4	1.27	< 10	< 1	0.03	< 10	0.28	85
S3034	201	229	< 5	< 0.2	1.74	6	30	< 0.5	< 2	0.30	< 0.5	14	231	18	1.91	< 10	< 1	0.04	< 10	1.15	210
S3035	201	229	< 5	< 0.2	2.83	2	50	< 0.5	< 2	0.17	< 0.5	9	69	18	2.20	< 10	< 1	0.03	< 10	0.72	125
S3036	201	229	< 5	< 0.2	1.05	< 2	20	< 0.5	< 2	0.18	< 0.5	4	16	17	1.11	< 10	< 1	0.03	< 10	0.27	105
S3037	201	229	< 5	< 0.2	2.48	< 2	40	< 0.5	< 2	0.12	< 0.5	8	35	27	2.00	< 10	< 1	0.03	< 10	0.29	110
S3038	201	229	15	< 0.2	2.95	2	50	< 0.5	< 2	0.08	< 0.5	3	20	49	2.67	< 10	< 1	0.02	< 10	0.13	55
S3039	201	229	< 5	< 0.2	0.63	< 2	10	< 0.5	< 2	0.12	< 0.5	2	10	1	0.81	< 10	< 1	0.02	< 10	0.14	60
S3040	201	229	< 5	< 0.2	1.18	< 2	20	< 0.5	< 2	0.15	< 0.5	6	22	5	1.65	< 10	< 1	0.03	< 10	0.36	120
S3041	201	229	< 5	< 0.2	0.83	< 2	10	< 0.5	< 2	0.11	< 0.5	3	13	3	0.97	< 10	< 1	0.03	< 10	0.18	75
S3042	201	229	< 5	< 0.2	0.59	< 2	10	< 0.5	< 2	0.13	< 0.5	2	13	1	0.91	< 10	< 1	0.03	< 10	0.15	70
S3043	201	229	< 5	< 0.2	2.86	36	100	0.5	< 2	0.65	< 0.5	41	417	21	5.21	< 10	< 1	0.07	10	3.14	510
S3044	201	229	< 5	< 0.2	1.10	< 2	30	< 0.5	< 2	0.18	< 0.5	5	21	4	1.33	< 10	< 1	0.03	< 10	0.30	130
S3045	201	229	< 5	< 0.2	1.54	< 2	50	< 0.5	< 2	0.23	< 0.5	7	32	5	1.81	< 10	< 1	0.05	< 10	0.45	180
S3046	201	229	< 5	< 0.2	0.81	< 2	20	< 0.5	< 2	0.13	< 0.5	4	15	5	0.91	< 10	< 1	0.01	< 10	0.26	75
S3047	201	229	< 5	< 0.2	0.70	< 2	50	< 0.5	< 2	0.12	< 0.5	5	16	4	1.16	< 10	< 1	0.03	< 10	0.22	515
S3048	201	229	< 5	< 0.2	0.95	< 2	30	< 0.5	< 2	0.12	< 0.5	4	15	4	0.97	< 10	< 1	0.02	< 10	0.24	85
S3049	201	229	< 5	< 0.2	0.98	< 2	30	< 0.5	< 2	0.16	< 0.5	6	23	10	1.53	< 10	< 1	0.03	< 10	0.35	165
S3050	201	229	< 5	< 0.2	1.29	4	30	< 0.5	< 2	0.18	< 0.5	6	27	7	1.75	< 10	< 1	0.05	< 10	0.39	145
S3051	201	229	< 5	< 0.2	0.85	< 2	40	< 0.5	< 2	0.17	< 0.5	4	19	4	1.38	< 10	< 1	0.05	< 10	0.28	200
S3052	201	229	< 5	< 0.2	1.17	< 2	30	< 0.5	< 2	0.13	< 0.5	4	14	3	1.18	< 10	< 1	0.03	< 10	0.20	85
S3053	201	229	< 5	< 0.2	0.91	2	40	< 0.5	< 2	0.13	< 0.5	5	16	4	1.19	< 10	< 1	0.03	< 10	0.23	200
S3054	201	229	< 5	< 0.2	2.09	< 2	60	< 0.5	< 2	0.13	< 0.5	7	24	12	1.91	< 10	< 1	0.03	< 10	0.29	90
S3055	201	229	< 5	< 0.2	0.81	< 2	50	< 0.5	< 2	0.14	< 0.5	4	15	3	1.31	< 10	< 1	0.04	< 10	0.21	130
S3056	201	229	< 5	< 0.2	1.21	< 2	30	< 0.5	< 2	0.19	< 0.5	6	26	4	1.58	< 10	< 1	0.05	< 10	0.46	165
S3057	201	229	< 5	< 0.2	1.47	< 2	30	< 0.5	< 2	0.16	< 0.5	5	24	8	1.44	< 10	< 1	0.03	< 10	0.30	90
S3058	201	229	< 5	< 0.2	0.85	< 2	30	< 0.5	< 2	0.15	< 0.5	3	17	2	1.13	< 10	< 1	0.03	< 10	0.22	155
S3059	201	229	< 5	< 0.2	1.01	2	50	< 0.5	< 2	0.17	< 0.5	4	22	8	1.22	< 10	< 1	0.03	< 10	0.33	205
S3060	201	229	< 5	< 0.2	1.56	< 2	50	< 0.5	< 2	0.16	< 0.5	6	24	11	1.72	< 10	< 1	0.04	< 10	0.29	115
S3061	201	229	< 5	< 0.2	1.35	2	40	< 0.5	< 2	0.14	< 0.5	8	22	9	1.67	< 10	< 1	0.05	< 10	0.32	110
S3062	201	229	< 5	< 0.2	1.41	4	70	< 0.5	< 2	0.23	< 0.5	6	25	4	1.91	< 10	< 1	0.06	< 10	0.33	200
S3063	201	229	< 5	< 0.2	0.95	< 2	50	< 0.5	< 2	0.24	< 0.5	5	21	5	1.13	< 10	< 1	0.06	< 10	0.32	310

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
M5R 3B7

Project :
Comments: ATTN: JEANETTE LOURIM

Page Number :1-B
Total Pages :2
Certificate Date: 10-OCT-96
Invoice No. : I9634497
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9634497

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
S1127	201	229	1	< 0.01	40	390	8	< 2	3	9	0.08	< 10	< 10	41	< 10	38
S1128	201	229	< 1	< 0.01	36	530	6	< 2	3	11	0.08	< 10	< 10	40	< 10	52
STH3001	217	229	2	< 0.01	9	570	8	< 2	< 1	75	< 0.01	< 10	< 10	20	< 10	22
STH3002	217	229	2	< 0.01	14	1070	10	< 2	< 1	136	< 0.01	< 10	< 10	86	< 10	28
STH3003	217	229	1	< 0.01	16	1100	8	< 2	3	34	0.04	< 10	< 10	28	< 10	66
S3029	201	229	< 1	< 0.01	22	460	6	< 2	3	31	0.10	< 10	< 10	36	< 10	46
S3030	201	229	< 1	< 0.01	23	1080	8	< 2	2	23	0.09	< 10	< 10	43	< 10	72
S3031	201	229	< 1	< 0.01	23	620	8	< 2	4	26	0.08	< 10	< 10	44	< 10	60
S3032	201	229	< 1	< 0.01	17	160	6	< 2	2	15	0.10	< 10	< 10	41	< 10	28
S3033	201	229	< 1	< 0.01	11	70	4	< 2	3	12	0.09	< 10	< 10	34	< 10	18
S3034	201	229	< 1	< 0.01	84	140	6	< 2	1	20	0.09	< 10	< 10	40	< 10	38
S3035	201	229	< 1	< 0.01	46	440	6	< 2	2	16	0.11	< 10	< 10	48	< 10	40
S3036	201	229	< 1	< 0.01	11	100	4	< 2	1	12	0.08	< 10	< 10	25	< 10	24
S3037	201	229	1	< 0.01	19	350	8	< 2	2	8	0.08	< 10	< 10	43	< 10	30
S3038	201	229	1	< 0.01	7	320	12	< 2	1	6	0.04	< 10	< 10	55	< 10	22
S3039	201	229	< 1	< 0.01	5	90	6	< 2	1	11	0.07	< 10	< 10	21	< 10	12
S3040	201	229	< 1	< 0.01	14	150	2	< 2	3	12	0.07	< 10	< 10	33	< 10	22
S3041	201	229	< 1	< 0.01	7	140	4	< 2	1	9	0.06	< 10	< 10	20	< 10	14
S3042	201	229	< 1	< 0.01	5	150	6	< 2	1	16	0.07	< 10	< 10	22	< 10	12
S3043	201	229	< 1	< 0.01	362	660	12	< 2	10	42	0.16	< 10	< 10	69	< 10	68
S3044	201	229	< 1	< 0.01	11	100	6	< 2	1	15	0.09	< 10	< 10	31	< 10	32
S3045	201	229	< 1	< 0.01	19	180	6	< 2	1	24	0.11	< 10	< 10	39	< 10	52
S3046	201	229	< 1	< 0.01	12	140	4	< 2	1	7	0.06	< 10	< 10	21	< 10	14
S3047	201	229	< 1	< 0.01	8	350	2	< 2	1	9	0.05	< 10	< 10	25	< 10	44
S3048	201	229	< 1	< 0.01	10	110	4	< 2	1	8	0.06	< 10	< 10	23	< 10	18
S3049	201	229	< 1	< 0.01	15	290	2	< 2	1	13	0.07	< 10	< 10	31	< 10	20
S3050	201	229	< 1	< 0.01	16	400	6	< 2	2	14	0.08	< 10	< 10	34	< 10	34
S3051	201	229	< 1	< 0.01	11	430	4	< 2	1	14	0.07	< 10	< 10	28	< 10	20
S3052	201	229	< 1	< 0.01	9	250	2	< 2	1	8	0.06	< 10	< 10	25	< 10	20
S3053	201	229	< 1	< 0.01	11	170	4	< 2	1	9	0.06	< 10	< 10	25	< 10	20
S3054	201	229	< 1	< 0.01	18	380	6	< 2	1	12	0.07	< 10	< 10	39	< 10	28
S3055	201	229	< 1	< 0.01	9	340	6	< 2	1	14	0.04	< 10	< 10	23	< 10	20
S3056	201	229	< 1	< 0.01	16	290	2	< 2	2	13	0.07	< 10	< 10	32	< 10	40
S3057	201	229	< 1	< 0.01	15	150	8	< 2	1	11	0.09	< 10	< 10	35	< 10	26
S3058	201	229	< 1	< 0.01	9	200	6	< 2	1	14	0.07	< 10	< 10	25	< 10	16
S3059	201	229	< 1	< 0.01	12	120	6	< 2	1	17	0.09	< 10	< 10	28	< 10	22
S3060	201	229	< 1	< 0.01	16	260	6	< 2	1	13	0.07	< 10	< 10	34	< 10	24
S3061	201	229	< 1	< 0.01	18	270	2	< 2	1	10	0.07	< 10	< 10	31	< 10	24
S3062	201	229	< 1	< 0.01	14	690	6	< 2	1	24	0.07	< 10	< 10	38	< 10	50
S3063	201	229	< 1	< 0.01	12	340	6	< 2	1	19	0.07	< 10	< 10	23	< 10	50

CERTIFICATION: Ivan R Bickler

Chemex Labs Ltd.

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To: LOURIM, JEANETTE & ASSOCIATES **
CONSULTING GEOLOGISTS
219 HOWLAND AVE.
TORONTO, ON
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Project :
Comments: ATTN: JEANETTE LOURIM

Certificate Date: 10-OCT-96
Invoice No. :I9634497
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9634497

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
S3064	201	229	< 1	< 0.01	15	670	8	< 2	1	22	0.07	< 10	< 10	34	< 10	76
S3065	201	229	< 1	< 0.01	8	90	2	< 2	1	9	0.07	< 10	< 10	20	< 10	16
S3066	201	229	< 1	< 0.01	8	170	6	< 2	1	11	0.06	< 10	< 10	21	< 10	26
S3067	201	229	< 1	< 0.01	8	160	2	< 2	1	9	0.06	< 10	< 10	18	< 10	12
S3068	201	229	< 1	< 0.01	11	130	6	< 2	1	7	0.06	< 10	< 10	35	< 10	18
S3069	201	229	< 1	< 0.01	14	120	6	< 2	2	8	0.07	< 10	< 10	42	< 10	24
S3070	201	229	< 1	< 0.01	8	310	8	< 2	3	6	0.06	< 10	< 10	48	< 10	20
S3071	201	229	< 1	< 0.01	18	160	6	< 2	1	13	0.08	< 10	< 10	31	< 10	18
S3072	201	229	< 1	< 0.01	11	240	2	< 2	1	11	0.07	< 10	< 10	24	< 10	20
S3073	201	229	3	< 0.01	92	1540	26	< 2	3	158	0.13	< 10	< 10	49	< 10	92
S3074	201	229	2	< 0.01	20	350	10	< 2	1	21	0.08	< 10	< 10	44	< 10	48
S3075	201	229	< 1	< 0.01	14	210	2	< 2	2	13	0.07	< 10	< 10	24	< 10	22
S3076	201	229	< 1	< 0.01	20	390	4	< 2	1	9	0.07	< 10	< 10	30	< 10	22
S3077	201	229	< 1	< 0.01	8	210	6	< 2	1	15	0.06	< 10	< 10	25	< 10	30
S3078	201	229	< 1	< 0.01	8	280	2	< 2	1	9	0.06	< 10	< 10	24	< 10	24
S3079	201	229	< 1	< 0.01	11	690	8	< 2	1	9	0.06	< 10	< 10	32	< 10	52
S3080	201	229	< 1	< 0.01	13	150	4	< 2	1	13	0.09	< 10	< 10	27	< 10	18
S3081	201	229	< 1	< 0.01	27	540	6	< 2	3	13	0.10	< 10	< 10	42	< 10	36
S3082	217	229	< 1	< 0.01	26	500	18	< 2	1	28	0.06	< 10	< 10	30	< 10	52
S3083	201	229	3	< 0.01	19	220	10	< 2	1	11	0.09	< 10	< 10	47	< 10	40
S3084A	201	229	< 1	< 0.01	13	230	4	< 2	2	12	0.08	< 10	< 10	31	< 10	20
S3084B	201	229	1	< 0.01	18	190	8	< 2	1	11	0.09	< 10	< 10	43	< 10	28
S3085	201	229	< 1	< 0.01	17	220	6	< 2	2	10	0.09	< 10	< 10	38	< 10	26
S3086	201	229	< 1	< 0.01	14	160	8	< 2	1	8	0.06	< 10	< 10	34	< 10	28
S3087	201	229	< 1	< 0.01	5	80	6	< 2	< 1	5	0.06	< 10	< 10	18	< 10	10
S3088	201	229	< 1	< 0.01	13	90	6	< 2	3	10	0.07	< 10	< 10	32	< 10	18
S3089	217	229	< 1	< 0.01	38	330	8	< 2	6	6	0.09	< 10	< 10	96	< 10	176
S3090	201	229	< 1	< 0.01	20	320	8	< 2	1	6	0.06	< 10	< 10	40	< 10	94
S3091	201	229	< 1	< 0.01	10	140	6	< 2	1	7	0.06	< 10	< 10	33	< 10	26
S3092	201	229	< 1	< 0.01	4	130	6	< 2	< 1	7	0.04	< 10	< 10	16	< 10	16
S3093	201	229	< 1	< 0.01	19	130	6	< 2	3	12	0.06	< 10	< 10	29	< 10	20
S3094	201	229	< 1	< 0.01	11	90	6	< 2	1	7	0.04	< 10	< 10	19	< 10	18
S3095	201	229	< 1	< 0.01	25	290	6	< 2	1	13	0.08	< 10	< 10	32	< 10	32
S3096	201	229	< 1	< 0.01	19	440	6	< 2	1	8	0.07	< 10	< 10	36	< 10	26
S3097	201	229	< 1	< 0.01	21	230	2	< 2	1	13	0.08	< 10	< 10	32	< 10	26
S3098	201	229	< 1	< 0.01	12	100	4	< 2	1	8	0.08	< 10	< 10	38	< 10	14
S3099	201	229	< 1	< 0.01	11	80	4	< 2	1	11	0.09	< 10	< 10	35	< 10	16

CERTIFICATION:

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Project :
Comments: ATTN: JEANETTE LOURIM

Certificate Date: 10-OCT-96
Invoice No. :19634497
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9634497

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
S3064	201	229	< 5	< 0.2	1.21	2	130	< 0.5	< 2	0.23	< 0.5	8	26	7	1.83	< 10	< 1	0.06	< 10	0.40	1120
S3065	201	229	< 5	< 0.2	0.68	2	10	< 0.5	< 2	0.15	< 0.5	4	14	3	0.84	< 10	< 1	0.02	< 10	0.22	70
S3066	201	229	< 5	< 0.2	0.91	< 2	30	< 0.5	< 2	0.16	< 0.5	4	16	3	1.05	< 10	< 1	0.03	< 10	0.23	110
S3067	201	229	15	< 0.2	0.59	< 2	10	< 0.5	< 2	0.16	< 0.5	3	13	3	0.78	< 10	< 1	0.01	< 10	0.23	85
S3068	201	229	5	< 0.2	1.09	< 2	20	< 0.5	< 2	0.10	< 0.5	4	17	6	1.59	< 10	< 1	0.01	< 10	0.24	95
S3069	201	229	< 5	< 0.2	1.78	2	30	< 0.5	< 2	0.08	< 0.5	6	24	9	2.09	< 10	< 1	0.01	< 10	0.32	95
S3070	201	229	< 5	< 0.2	2.59	4	40	< 0.5	< 2	0.10	< 0.5	4	22	12	1.98	< 10	< 1	0.02	< 10	0.19	75
S3071	201	229	< 5	< 0.2	1.04	2	20	< 0.5	< 2	0.15	< 0.5	6	26	8	1.28	< 10	< 1	0.04	< 10	0.37	105
S3072	201	229	60	< 0.2	0.83	< 2	20	< 0.5	< 2	0.22	< 0.5	5	18	4	1.09	< 10	< 1	0.03	< 10	0.32	110
S3073	201	229	< 5	< 0.2	2.34	2	120	< 0.5	< 2	0.41	< 0.5	13	142	30	2.78	< 10	1	0.07	10	1.36	265
S3074	201	229	< 5	< 0.2	2.28	6	60	< 0.5	< 2	0.17	< 0.5	8	28	11	2.01	< 10	< 1	0.03	< 10	0.41	120
S3075	201	229	5	< 0.2	0.87	< 2	30	< 0.5	< 2	0.26	< 0.5	6	21	7	1.19	< 10	< 1	0.03	< 10	0.35	170
S3076	201	229	< 5	< 0.2	1.54	2	40	< 0.5	< 2	0.15	< 0.5	7	24	11	1.57	< 10	< 1	0.03	< 10	0.33	105
S3077	201	229	< 5	< 0.2	0.81	< 2	40	< 0.5	< 2	0.17	< 0.5	5	16	3	1.26	< 10	< 1	0.04	< 10	0.18	220
S3078	201	229	< 5	< 0.2	1.04	< 2	40	< 0.5	< 2	0.14	< 0.5	4	14	2	1.14	< 10	< 1	0.03	< 10	0.17	85
S3079	201	229	< 5	< 0.2	1.47	< 2	60	< 0.5	< 2	0.13	< 0.5	6	21	5	1.56	< 10	< 1	0.03	< 10	0.22	265
S3080	201	229	25	< 0.2	0.94	< 2	20	< 0.5	< 2	0.22	< 0.5	5	24	5	1.11	< 10	< 1	0.01	< 10	0.33	90
S3081	201	229	< 5	< 0.2	2.95	2	30	< 0.5	< 2	0.14	< 0.5	8	49	20	2.04	< 10	< 1	0.03	10	0.53	135
S3082	217	229	< 5	< 0.2	1.55	< 2	70	< 0.5	< 2	0.15	< 0.5	6	71	10	1.59	< 10	< 1	0.07	10	0.50	205
S3083	201	229	< 5	< 0.2	2.07	6	50	< 0.5	< 2	0.12	< 0.5	7	32	14	2.35	< 10	1	0.03	< 10	0.39	140
S3084A	201	229	< 5	< 0.2	0.95	2	30	< 0.5	< 2	0.19	< 0.5	5	22	7	1.36	< 10	< 1	0.04	< 10	0.35	190
S3084B	201	229	< 5	< 0.2	1.87	2	40	< 0.5	< 2	0.15	< 0.5	6	26	7	2.02	< 10	< 1	0.03	< 10	0.29	105
S3085	201	229	< 5	< 0.2	2.40	2	60	< 0.5	< 2	0.14	< 0.5	7	25	12	2.03	< 10	< 1	0.02	< 10	0.30	110
S3086	201	229	< 5	< 0.2	1.59	2	50	< 0.5	< 2	0.14	< 0.5	6	20	8	1.90	< 10	< 1	0.01	< 10	0.31	125
S3087	201	229	< 5	< 0.2	0.77	< 2	10	< 0.5	< 2	0.10	< 0.5	2	11	3	0.58	< 10	< 1	< 0.01	< 10	0.16	50
S3088	201	229	< 5	< 0.2	1.26	2	30	< 0.5	< 2	0.29	< 0.5	6	21	17	1.47	< 10	< 1	0.01	< 10	0.27	135
S3089	217	229	< 5	< 0.2	3.00	14	150	< 0.5	< 2	0.16	< 0.5	20	80	49	4.09	< 10	< 1	0.21	< 10	0.65	475
S3090	201	229	< 5	< 0.2	2.24	4	80	< 0.5	< 2	0.12	< 0.5	10	18	39	2.14	< 10	< 1	0.03	< 10	0.23	190
S3091	201	229	< 5	< 0.2	1.42	2	30	< 0.5	< 2	0.12	< 0.5	7	19	6	1.77	< 10	< 1	0.01	< 10	0.24	150
S3092	201	229	5	< 0.2	0.64	< 2	30	< 0.5	< 2	0.11	< 0.5	3	9	3	0.71	< 10	< 1	0.01	< 10	0.11	95
S3093	201	229	< 5	< 0.2	1.73	2	70	< 0.5	< 2	0.25	< 0.5	8	28	17	1.41	< 10	< 1	0.01	10	0.34	280
S3094	201	229	< 5	< 0.2	1.01	< 2	40	< 0.5	< 2	0.12	< 0.5	4	15	8	0.90	< 10	< 1	0.01	< 10	0.24	85
S3095	201	229	< 5	< 0.2	1.83	< 2	50	< 0.5	< 2	0.21	< 0.5	7	35	31	1.81	< 10	< 1	0.02	10	0.60	130
S3096	201	229	< 5	< 0.2	2.15	4	60	< 0.5	< 2	0.12	< 0.5	7	26	10	1.81	< 10	< 1	0.03	< 10	0.31	110
S3097	201	229	< 5	< 0.2	1.49	2	40	< 0.5	< 2	0.18	< 0.5	9	27	26	1.63	< 10	< 1	0.02	< 10	0.42	145
S3098	201	229	< 5	< 0.2	1.24	< 2	20	< 0.5	< 2	0.10	< 0.5	5	23	6	1.67	< 10	< 1	0.01	< 10	0.24	75
S3099	201	229	< 5	< 0.2	0.92	< 2	20	< 0.5	< 2	0.18	< 0.5	6	21	5	1.49	< 10	< 1	0.04	< 10	0.27	135

CERTIFICATION:

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Comments: ATTN: JEANETTE LOURIM CC: MIKE PICKENS

Page Number :1-A
Total Pages :1
Certificate Date: 24-SEP-96
Invoice No. :I9631967
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9631967

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
S1124	201	229	< 5	< 0.2	2.08	6	50	< 0.5	< 2	0.13	< 0.5	10	37	30	2.66	< 10	< 1	0.03	< 10	0.39	140
S1125	201	229	< 5	< 0.2	1.14	< 2	30	< 0.5	< 2	0.15	< 0.5	6	23	19	1.21	< 10	< 1	0.01	< 10	0.33	100
S1126	201	229	< 5	< 0.2	2.63	< 2	80	< 0.5	< 2	0.16	< 0.5	14	38	36	2.52	< 10	< 1	0.03	< 10	0.46	175
S2001	201	229	< 5	0.2	1.30	< 2	40	< 0.5	< 2	0.20	< 0.5	5	19	4	1.33	< 10	< 1	0.02	< 10	0.25	100
S2002	201	229	10	0.2	1.26	10	40	< 0.5	< 2	0.22	< 0.5	8	35	18	1.82	< 10	< 1	0.04	< 10	0.46	185
S2003	201	229	15	1.4	2.26	< 2	80	< 0.5	< 2	0.15	< 0.5	13	21	27	2.44	< 10	< 1	0.04	< 10	0.32	180
S3001	201	229	< 5	< 0.2	1.05	< 2	40	< 0.5	< 2	0.21	< 0.5	11	27	18	1.79	< 10	< 1	0.01	10	0.36	240
S3002	201	229	< 5	< 0.2	2.61	< 2	100	< 0.5	< 2	0.10	< 0.5	4	24	58	3.37	10	< 1	0.04	< 10	0.19	125
S3003	201	229	< 5	< 0.2	1.08	< 2	30	< 0.5	< 2	0.14	< 0.5	4	18	5	1.10	< 10	< 1	0.01	< 10	0.24	80
S3004	201	229	< 5	< 0.2	1.54	< 2	60	< 0.5	< 2	0.20	< 0.5	7	21	4	1.61	< 10	< 1	0.03	< 10	0.31	140
S3005	201	229	< 5	< 0.2	2.13	2	80	< 0.5	< 2	0.24	< 0.5	9	26	20	2.22	< 10	< 1	0.06	< 10	0.36	150
S3006	201	229	< 5	< 0.2	1.02	< 2	50	< 0.5	< 2	0.26	< 0.5	5	16	4	1.24	< 10	< 1	0.06	< 10	0.21	100
S3007	201	229	< 5	< 0.2	2.08	< 2	110	< 0.5	< 2	0.18	< 0.5	19	298	13	2.13	< 10	< 1	0.05	< 10	0.54	415
S3008	201	229	< 5	< 0.2	1.42	< 2	50	< 0.5	< 2	0.34	< 0.5	9	53	16	1.72	< 10	< 1	0.05	< 10	0.51	170
S3009	201	229	< 5	< 0.2	0.96	6	40	< 0.5	< 2	0.17	< 0.5	5	18	4	1.14	< 10	< 1	0.03	< 10	0.22	145
S3010	201	229	< 5	< 0.2	1.70	< 2	60	< 0.5	< 2	0.19	< 0.5	6	27	15	1.72	< 10	< 1	0.03	< 10	0.31	150
S3011	201	229	< 5	< 0.2	2.90	< 2	100	< 0.5	< 2	0.15	< 0.5	12	41	31	3.22	< 10	< 1	0.05	10	0.55	190
S3012	201	229	< 5	< 0.2	2.11	< 2	100	< 0.5	< 2	0.24	< 0.5	10	20	63	2.26	< 10	< 1	0.04	< 10	0.43	310
S3013	201	229	10	< 0.2	2.03	< 2	100	< 0.5	< 2	0.22	< 0.5	13	29	14	2.50	< 10	< 1	0.05	< 10	0.51	225
S3014	201	229	< 5	< 0.2	2.05	6	90	< 0.5	< 2	0.20	< 0.5	7	28	39	1.72	< 10	< 1	0.03	10	0.31	125
S3015	201	229	< 5	< 0.2	0.70	< 2	40	< 0.5	< 2	0.16	< 0.5	4	17	3	1.14	< 10	< 1	0.04	< 10	0.22	115
S3016	201	229	< 5	< 0.2	1.47	< 2	30	< 0.5	< 2	0.14	< 0.5	9	55	8	1.97	< 10	< 1	0.03	< 10	0.59	130
S3017	201	229	< 5	< 0.2	0.92	< 2	30	< 0.5	< 2	0.12	< 0.5	5	27	7	0.87	< 10	< 1	0.01	< 10	0.27	70
S3018	201	229	< 5	< 0.2	1.16	< 2	40	< 0.5	< 2	0.12	< 0.5	6	22	6	1.69	< 10	< 1	0.04	< 10	0.34	110
S3019	201	229	< 5	< 0.2	2.70	< 2	120	0.5	< 2	0.15	< 0.5	11	104	46	2.42	10	< 1	0.03	10	0.56	85
S3020	201	229	< 5	< 0.2	3.24	< 2	110	0.5	< 2	0.14	< 0.5	20	28	61	3.82	10	< 1	0.05	10	0.27	370
S3021	201	229	< 5	< 0.2	1.17	< 2	50	< 0.5	< 2	0.19	< 0.5	6	16	6	1.38	< 10	< 1	0.01	< 10	0.21	90
S3022	201	229	< 5	< 0.2	2.14	< 2	80	< 0.5	< 2	0.17	< 0.5	7	23	13	2.00	< 10	< 1	0.03	< 10	0.24	115
S3023	201	229	< 5	< 0.2	2.55	< 2	70	< 0.5	< 2	0.12	< 0.5	7	52	37	2.92	10	< 1	0.04	< 10	0.77	165
S3024	201	229	< 5	< 0.2	1.38	< 2	40	< 0.5	< 2	0.17	< 0.5	6	18	5	1.31	< 10	< 1	0.04	< 10	0.24	90
S3025	205	203	< 5	< 0.2	4.26	< 2	400	0.5	< 2	1.18	0.5	33	305	81	4.89	10	< 1	0.36	50	3.01	5600
S3026	205	203	< 5	0.4	4.47	< 2	210	1.0	< 2	1.12	< 0.5	22	192	96	3.83	10	< 1	0.20	60	1.74	845
S3027	201	229	< 5	< 0.2	2.27	< 2	60	< 0.5	< 2	0.16	< 0.5	8	26	31	2.63	< 10	< 1	0.03	< 10	0.28	120
S3028	201	229	< 5	< 0.2	1.71	< 2	90	< 0.5	< 2	0.19	< 0.5	9	27	13	1.99	< 10	< 1	0.05	10	0.40	205

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Comments: ATTN: JEANETTE LOURIM CC: MIKE PICKENS

Page Number :1-B
Total Pages :1
Certificate Date: 24-SEP-96
Invoice No. :19631967
P.O. Number :
Account :NXV

CERTIFICATE OF ANALYSIS A9631967

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
S1124	201	229	< 1	< 0.01	26	190	8	< 2	3	7	0.10	< 10	< 10	56	< 10	34
S1125	201	229	< 1	< 0.01	15	90	2	< 2	2	10	0.08	< 10	< 10	25	< 10	20
S1126	201	229	< 1	< 0.01	34	250	6	< 2	3	13	0.10	< 10	< 10	48	< 10	38
S2001	201	229	< 1	< 0.01	10	190	8	< 2	2	13	0.09	< 10	< 10	34	< 10	58
S2002	201	229	10	< 0.01	20	100	4	< 2	3	13	0.11	< 10	< 10	54	< 10	60
S2003	201	229	20	< 0.01	27	250	6	< 2	2	8	0.09	< 10	< 10	56	< 10	62
S3001	201	229	< 1	< 0.01	16	150	2	< 2	3	13	0.07	< 10	< 10	33	< 10	34
S3002	201	229	1	0.01	9	400	14	< 2	3	5	0.04	< 10	< 10	74	< 10	44
S3003	201	229	< 1	< 0.01	10	80	6	< 2	1	10	0.08	< 10	< 10	26	< 10	18
S3004	201	229	< 1	< 0.01	14	100	2	< 2	2	15	0.09	< 10	< 10	35	< 10	30
S3005	201	229	< 1	< 0.01	25	450	6	< 2	2	13	0.10	< 10	< 10	43	< 10	70
S3006	201	229	< 1	< 0.01	8	280	4	< 2	1	13	0.06	< 10	< 10	25	< 10	36
S3007	201	229	< 1	< 0.01	74	280	8	< 2	2	15	0.07	< 10	< 10	40	< 10	56
S3008	201	229	< 1	< 0.01	43	120	8	< 2	2	21	0.10	< 10	< 10	36	< 10	64
S3009	201	229	< 1	< 0.01	11	170	4	< 2	1	12	0.07	< 10	< 10	23	< 10	20
S3010	201	229	< 1	< 0.01	19	210	6	< 2	1	11	0.09	< 10	< 10	37	< 10	26
S3011	201	229	< 1	< 0.01	30	170	6	< 2	4	17	0.10	< 10	< 10	58	< 10	40
S3012	201	229	< 1	< 0.01	23	210	6	< 2	3	12	0.09	< 10	< 10	87	< 10	42
S3013	201	229	< 1	< 0.01	20	160	6	< 2	3	12	0.10	< 10	< 10	47	< 10	44
S3014	201	229	< 1	< 0.01	19	160	8	< 2	2	10	0.08	< 10	< 10	36	< 10	28
S3015	201	229	< 1	< 0.01	9	130	4	< 2	1	11	0.06	< 10	< 10	26	< 10	30
S3016	201	229	< 1	< 0.01	30	160	4	2	1	11	0.09	< 10	< 10	39	< 10	30
S3017	201	229	< 1	< 0.01	22	50	6	< 2	1	7	0.05	< 10	< 10	19	< 10	16
S3018	201	229	< 1	< 0.01	15	240	2	< 2	1	7	0.07	< 10	< 10	31	< 10	24
S3019	201	229	< 1	0.01	35	180	12	< 2	1	7	0.04	< 10	< 10	45	< 10	52
S3020	201	229	1	< 0.01	18	520	10	< 2	3	7	0.05	< 10	< 10	58	< 10	60
S3021	201	229	< 1	< 0.01	11	90	4	< 2	1	9	0.07	< 10	< 10	32	< 10	26
S3022	201	229	< 1	< 0.01	20	230	6	< 2	1	11	0.07	< 10	< 10	37	< 10	28
S3023	201	229	< 1	< 0.01	20	320	12	4	3	8	0.07	< 10	< 10	68	< 10	246
S3024	201	229	< 1	< 0.01	11	130	2	2	1	12	0.07	< 10	< 10	25	< 10	38
S3025	205	203	< 1	< 0.01	80	1070	8	< 2	15	40	0.16	< 10	< 10	111	< 10	120
S3026	205	203	< 1	< 0.01	83	1260	10	< 2	9	49	0.16	< 10	< 10	77	< 10	68
S3027	201	229	< 1	< 0.01	19	230	6	< 2	2	8	0.10	< 10	< 10	48	< 10	34
S3028	201	229	< 1	< 0.01	21	200	6	< 2	2	16	0.09	< 10	< 10	38	< 10	38

CERTIFICATION: _____

APPENDIX - B

STATISTICAL RESULTS
ROCKS AND SOILS

Statistical Analysis - Rock
Sample Set II

Data from for Set II :

Certificate Number	Sample	Number of Samples
A9631968	R3001 - R3019	17
A9634498	R3021 - R3090	49
A9634498	R13001	1

Note :

- In calculating the data set, for those results that were reported less than the detection limit is assigned to have a zero value.
- In the distribution and Cumulative Percentage Chart, the bin range is from 0 to the maximum values, with increments of 1/10 of the range.

Gold - Au

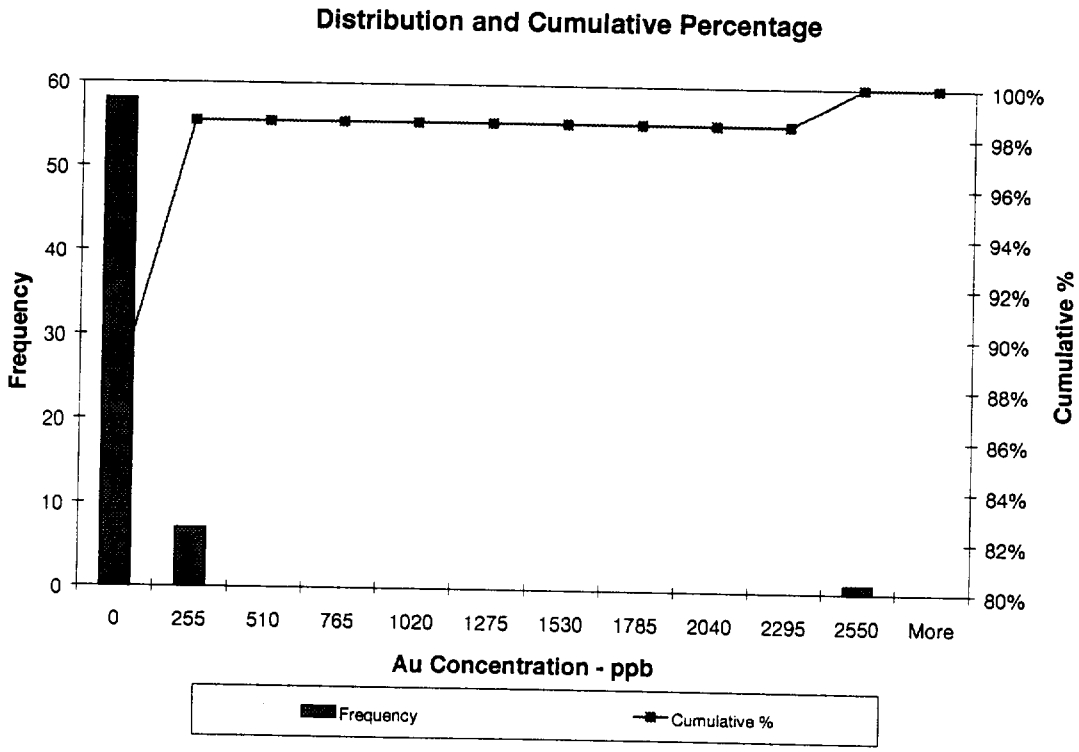
Statistic Data :

Au ppb								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
40	0	0	313.7	98433.1	2550	0	2550	66

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Au ppb
A9634498-18	R3028	2550
A9634498-19	R3030	20
A9634498-20	R3031	15
A9634498-21	R3032	15

Chart 1 - Au



Silver - Ag

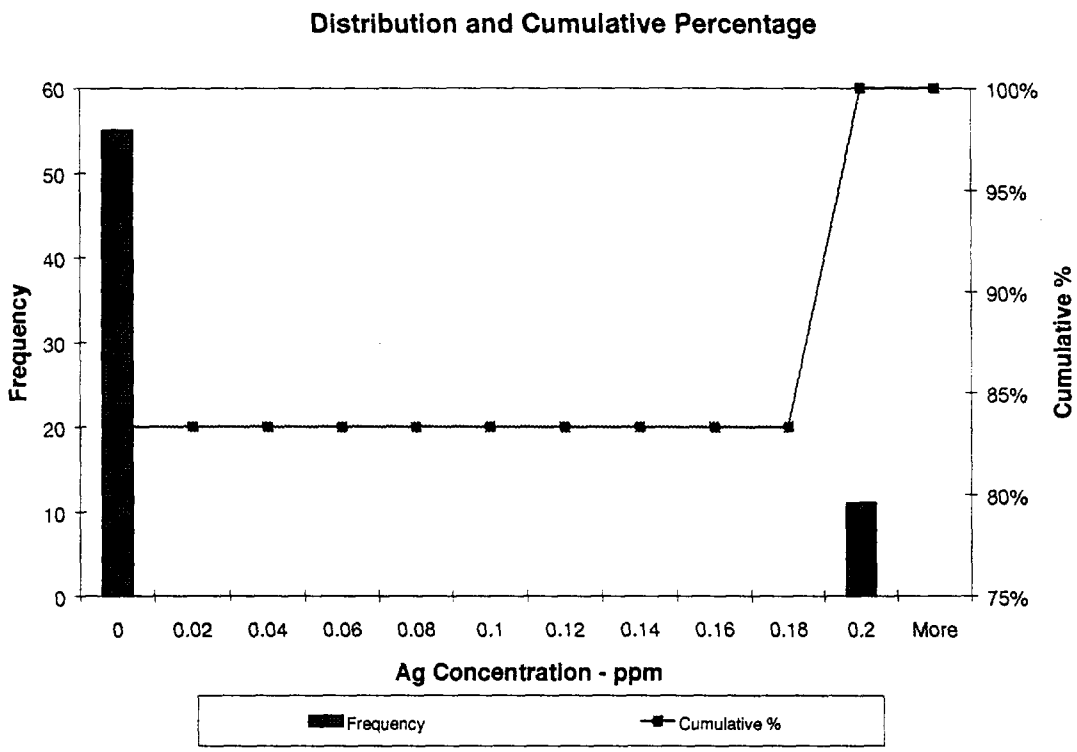
Statistic Data :

Ag ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
0.03	0	0	0.1	0.0	0.2	0	0.2	66

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Ag ppm
A9631968-17	R3001	0.2
A9634498-22	R3033	0.2
A9634498-26	R3040	0.2
A9634498-28	R3042	0.2
A9634498-30	R3044	0.2
A9634498-32	R3047	0.2
A9634498-34	R3050	0.2
A9634498-40	R3071B	0.2
A9634498-41	R3071C	0.2
A9634498-42	R3072	0.2
A9634498-60	R13001	0.2

Chart 1 - Ag


Distribution and Cumulative Percentage
60
50
40
30
20
10
0
Frequency
100%
95%
90%
85%
80%
75%
Cumulative %
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
More
Ag Concentration - ppm
Frequency
Cumulative %

Cobalt - Co

Statistic Data :

Co ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
19.9	19	20	10.8	116.4	60	0	60	66

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Co ppm
A9634498-25	R3036	60
A9634498-47	R3077	44
A9634498-16	R3025	42
A9634498-40	R3071B	38

List of samples between 90 to 95 Percentile :

Sample Num.	Sample Desc.	Co ppm
A9631968-17	R3001	35
A9634498-19	R3030	34

Chart 1 - Co

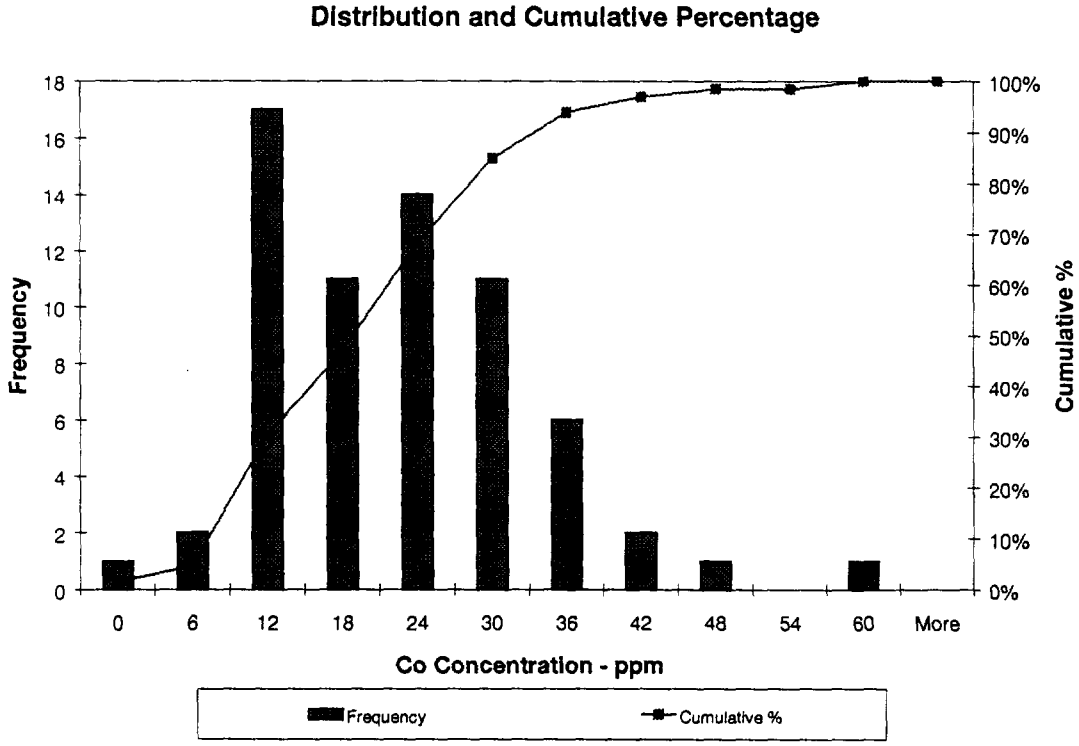


Chart 2 - Co

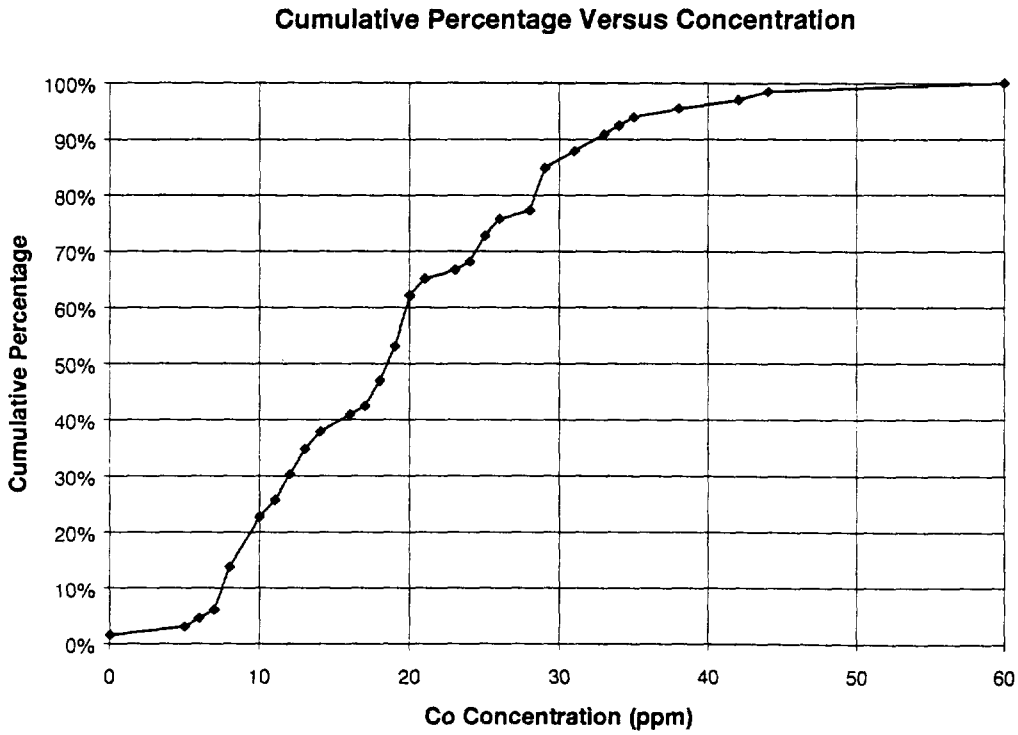
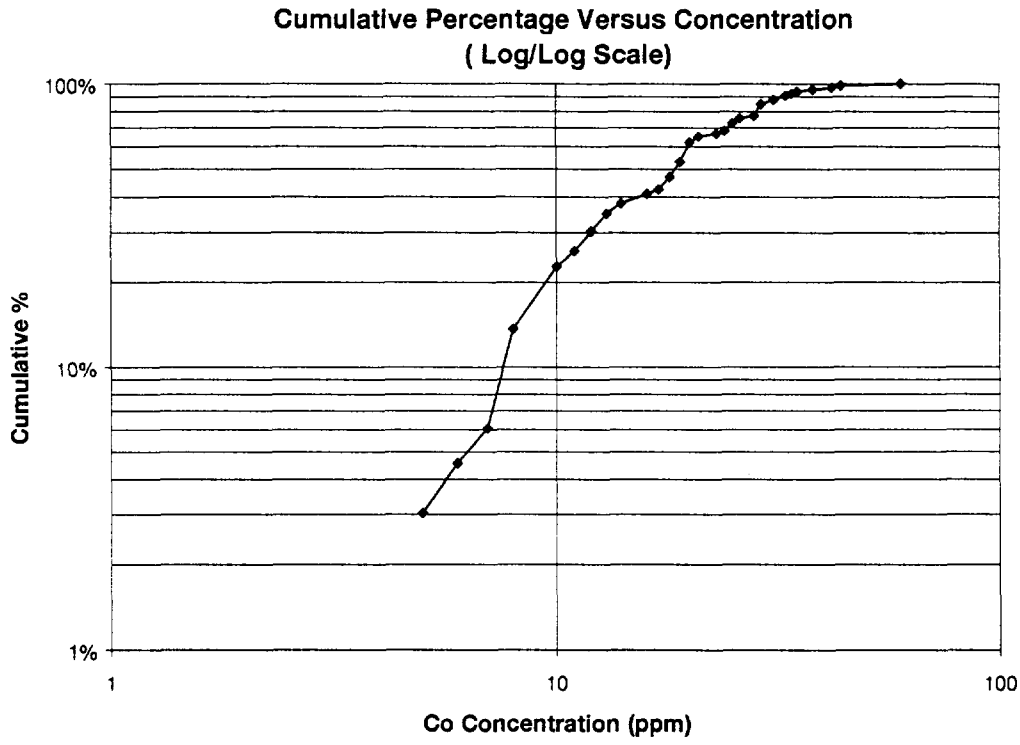


Chart 3 - Co


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
Co Concentration (ppm)

Chromium - Cr

Statistic Data :

Cr ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
91.9	75.5	65	60.5	3666.1	318	20	338	66

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Cr ppm
A9634498-42	R3072	338
A9631968-29	R3015	326
A9631968-27	R3013	193
A9634498-34	R3050	189

List of samples between 90 to 95 Samples :

Sample Num.	Sample Desc.	Cr ppm
A9631968-17	R3001	170
A9634498-30	R3044	166
A9634498-32	R3047	164

Chart 1 - Cr

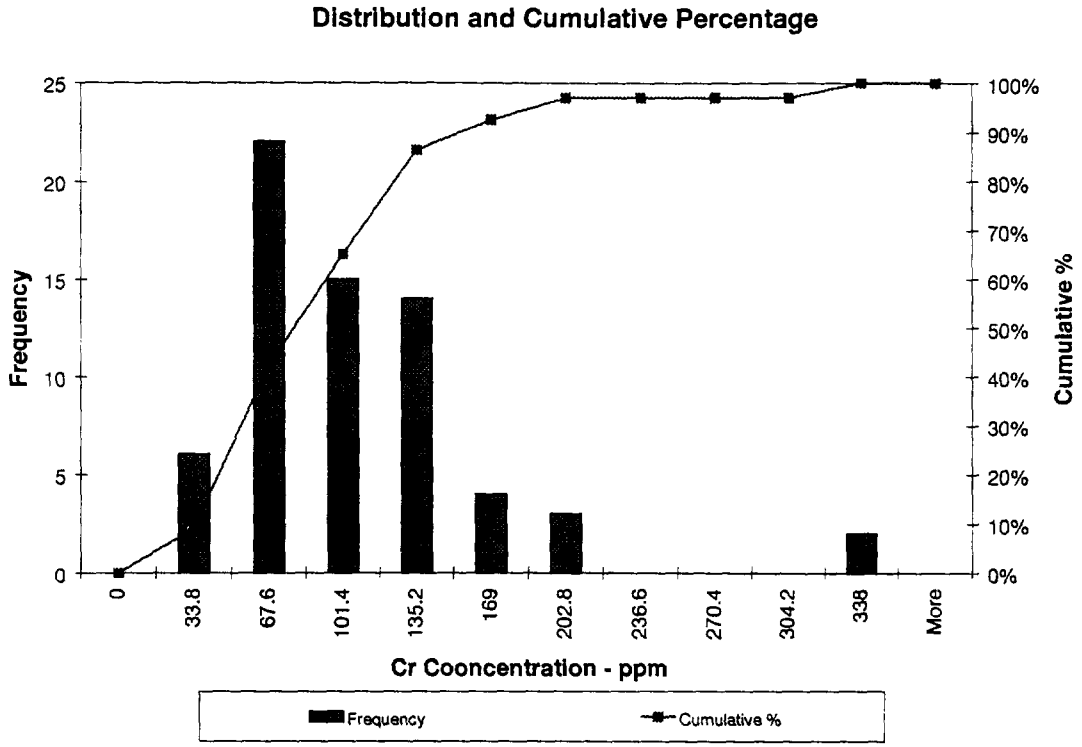


Chart 2 - Cr

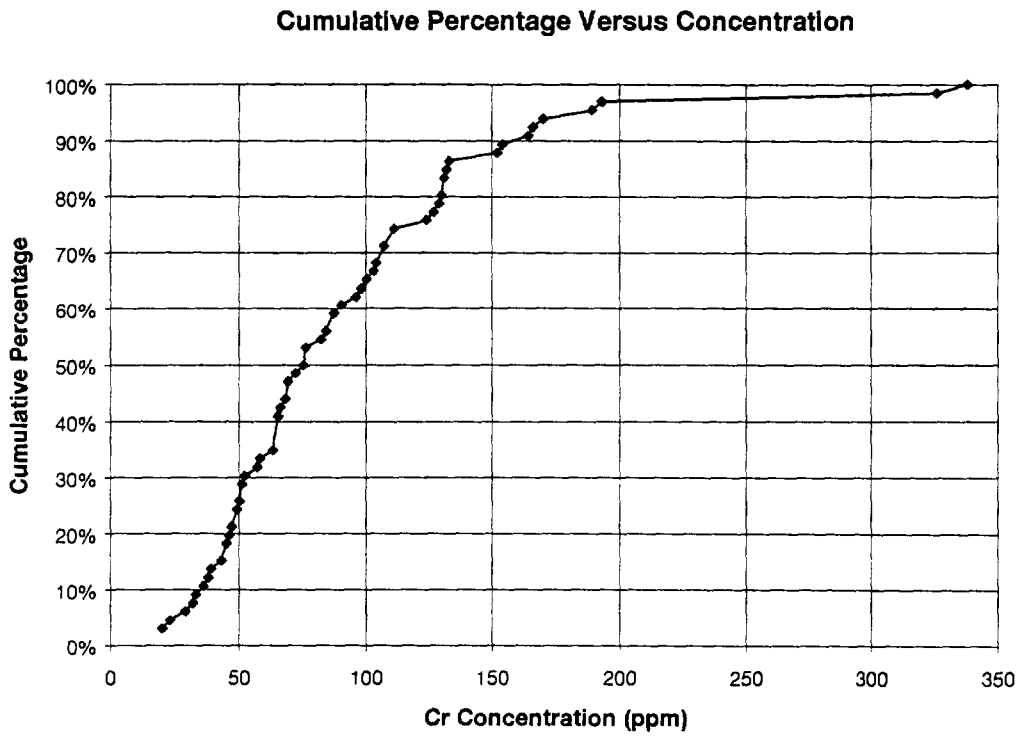
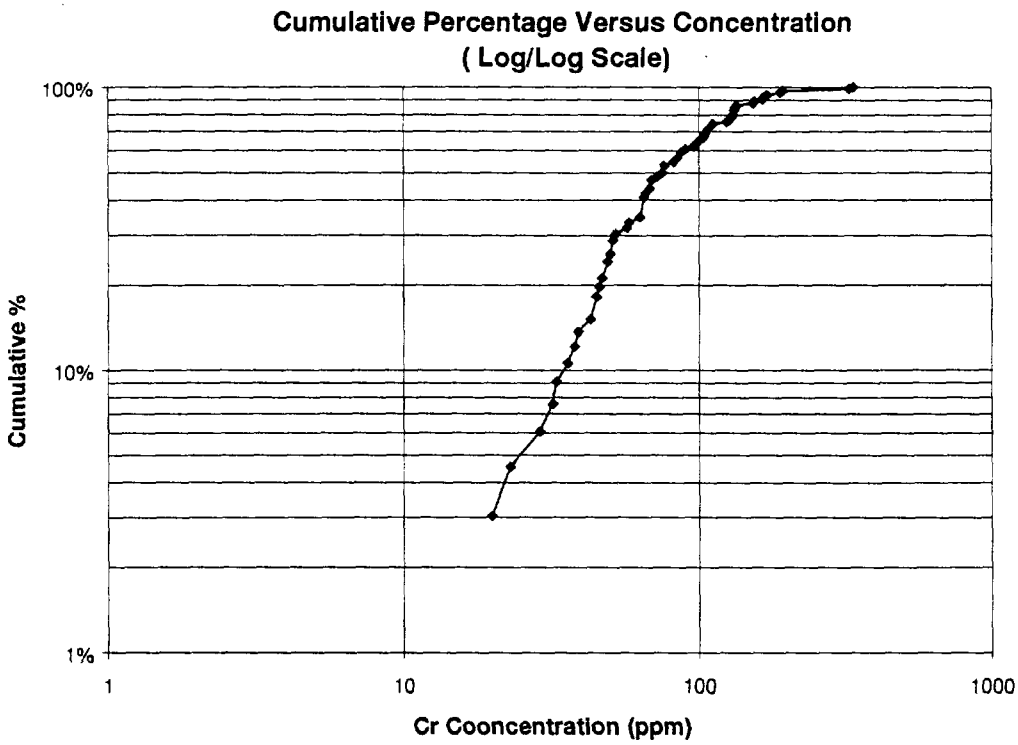


Chart 3 - Cr


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
1000
Cr Cooncentration (ppm)

Copper - Cu

Statistic Data:

Cu ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
70.5	49	20	78.5	6169.2	508	4	512	66

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Cu ppm
A9634498-25	R3036	512
A9631968-28	R3014	306
A9634498-47	R3077	155
A9634498-58	R3089	154

List of Samples between 90 to 95 Percentile :

Sample Num.	Sample Desc.	Cu ppm
A9634498-55	R3086	143
A9631968-19	R3003	139
A9634498-21	R3032	139

Chart 1 -Cu

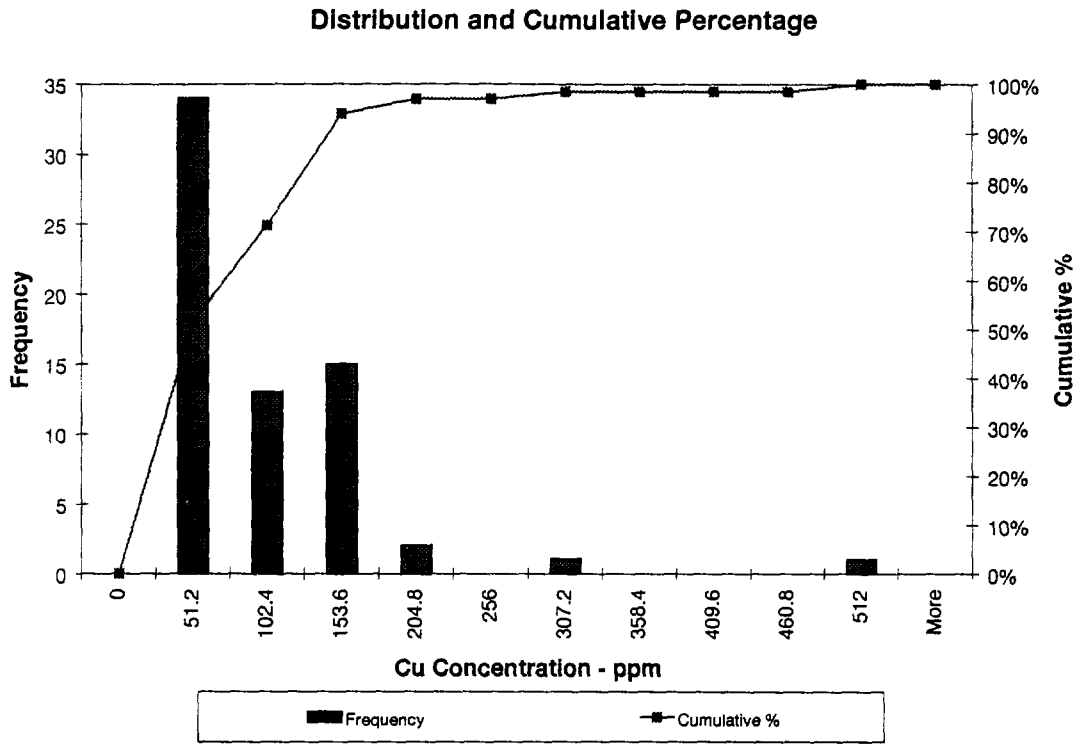


Chart 2 - Cu

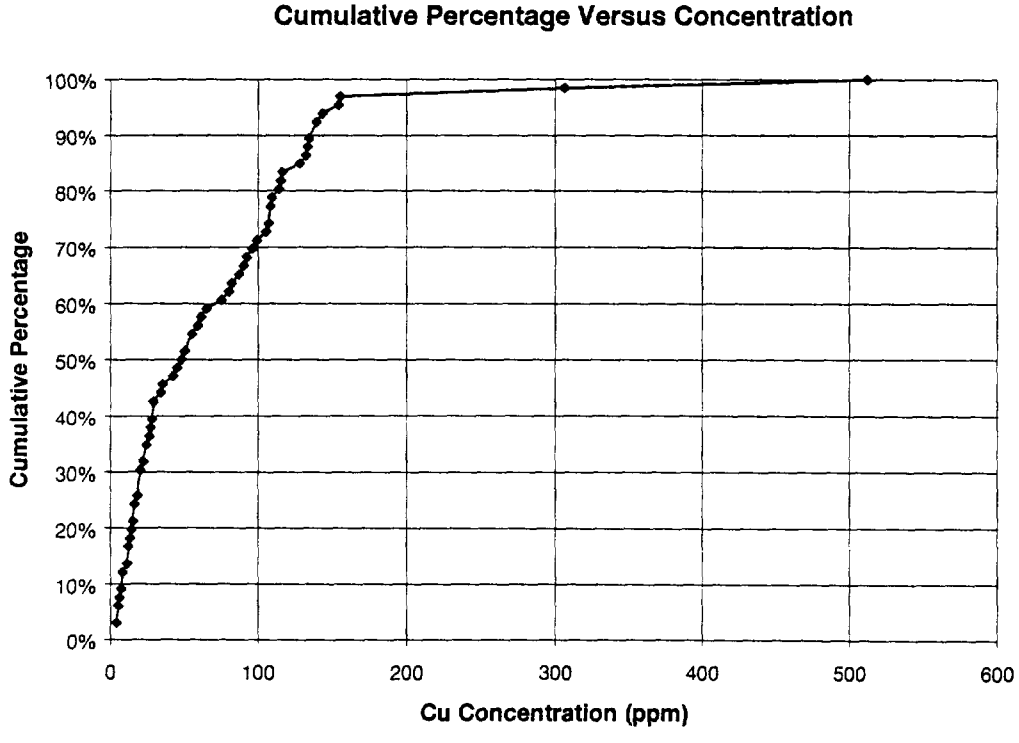
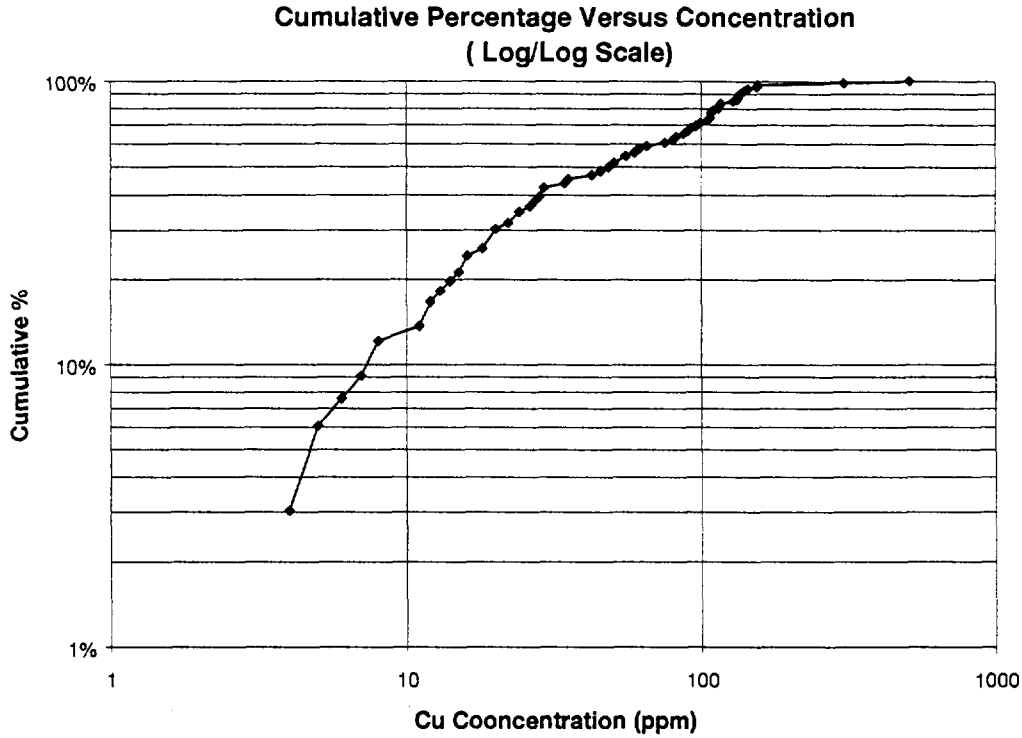


Chart 3 - Cu


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
1000
Cu Cooncentration (ppm)

Molybdenum - Mo

Statistic Data :

Mo ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
1.2	1	1	1.5	2.3	9	0	9	66

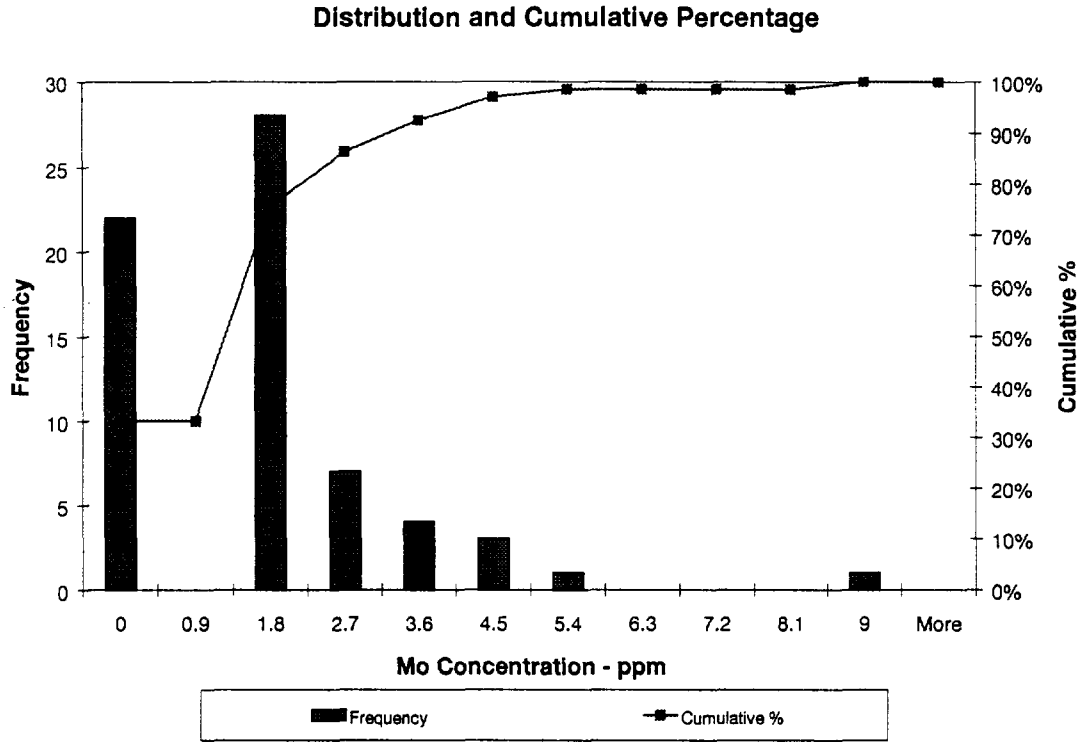
List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Mo ppm
A9634498-28	R3042	9
A9634498-13	R3022	5

List of Samples Between 90 to 95 Percentile:

Sample Num.	Sample Desc.	Mo ppm
A9634498-26	R3040	4
A9634498-33	R3048	4
A9634498-41	R3071C	4

Chart 1 - Mo


Distribution and Cumulative Percentage
Frequency
Cumulative %
30
25
20
15
10
5
0
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
0
0.9
1.8
2.7
3.6
4.5
5.4
6.3
7.2
8.1
9
More
Mo Concentration - ppm
Frequency
Cumulative %

Nickel - Ni

Statistic Data :

Ni ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
51.4	41	42	42.3	1793.1	217	2	219	66

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Ni ppm
A9631968-29	R3015	219
A9634498-33	R3048	189
A9634498-16	R3025	163

List of between 90 to 95 Percentile Samples :

Sample Num.	Sample Desc.	Ni ppm
A9634498-20	R3031	119
A9634498-42	R3072	119
A9634498-19	R3030	117
A9634498-32	R3047	114

Chart 1 - Ni

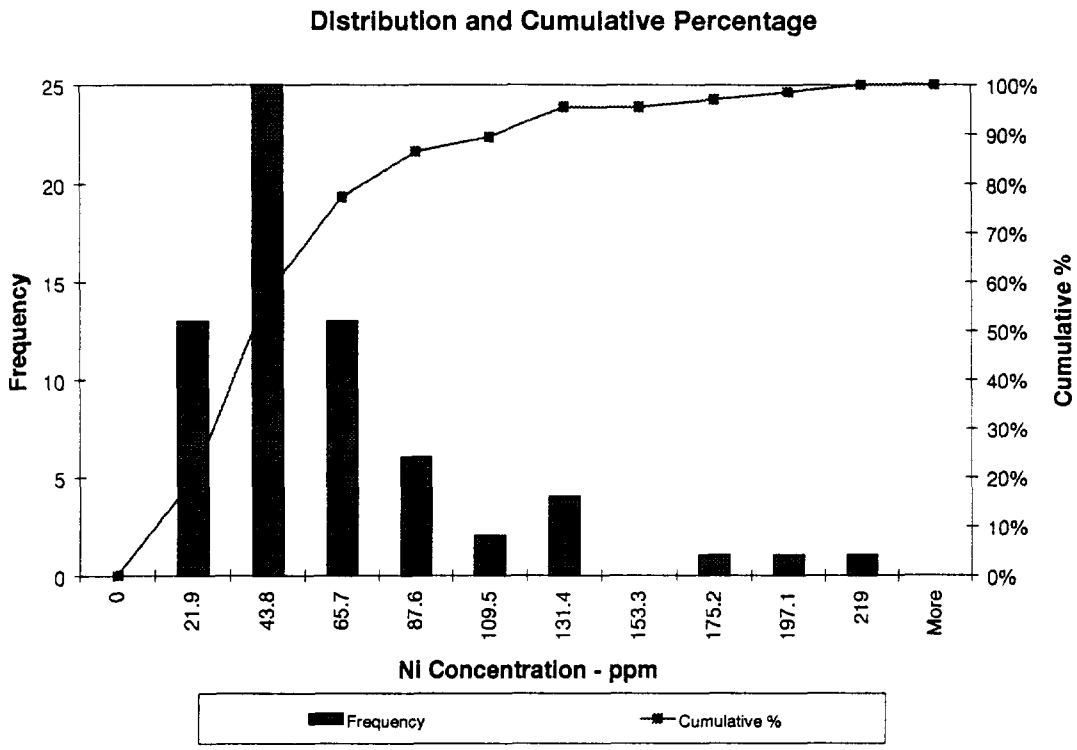


Chart 2 - Ni

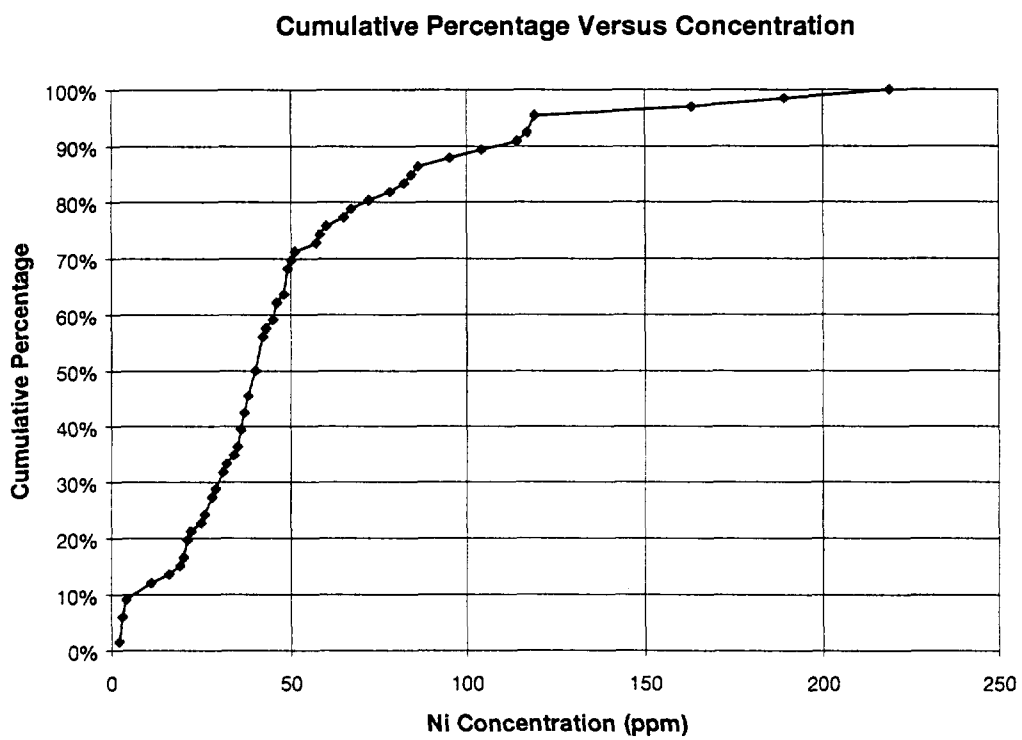
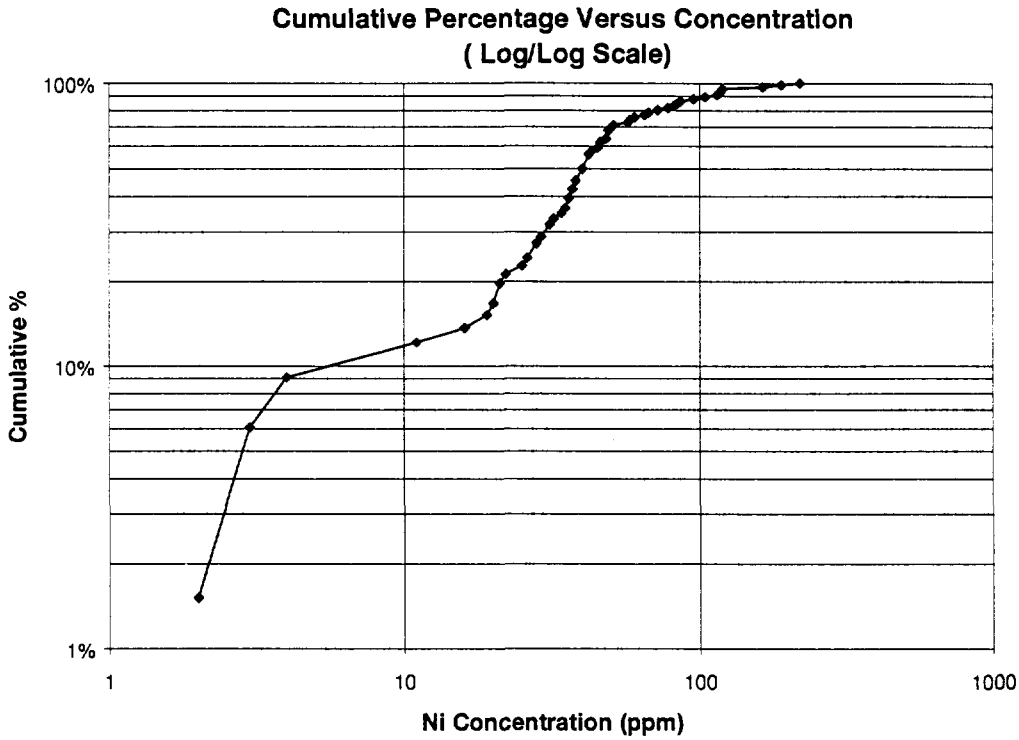


Chart 3 - Ni


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
1000
Ni Concentration (ppm)

Lead - Pb

Statistic Data :

Pb ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
4.52	0	0	7.8	60.5	30	0	30	66

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Pb ppm
A9634498-19	R3030	30
A9634498-32	R3047	28
A9634498-42	R3072	28
A9634498-39	R3071A	26

List of Samples Between 90 to 95 Percentile:

Sample Num.	Sample Desc.	Pb ppm
A9634498-28	R3042	20
A9634498-41	R3071C	20

Chart 1 -Pb

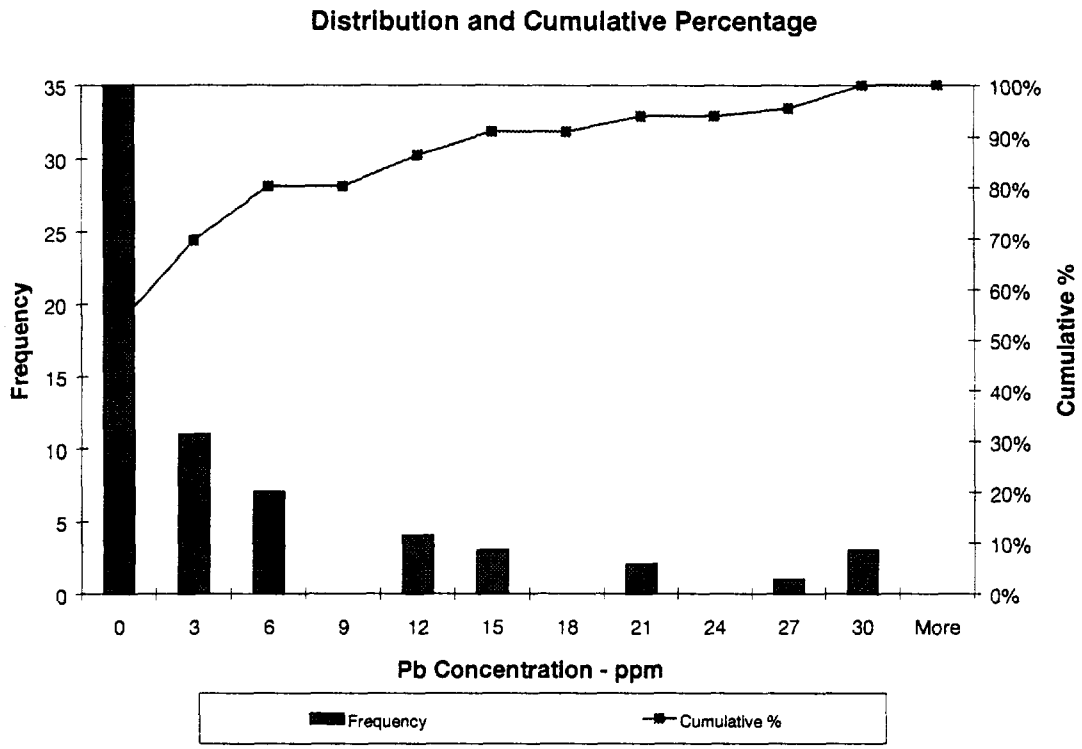


Chart 2 - Pb

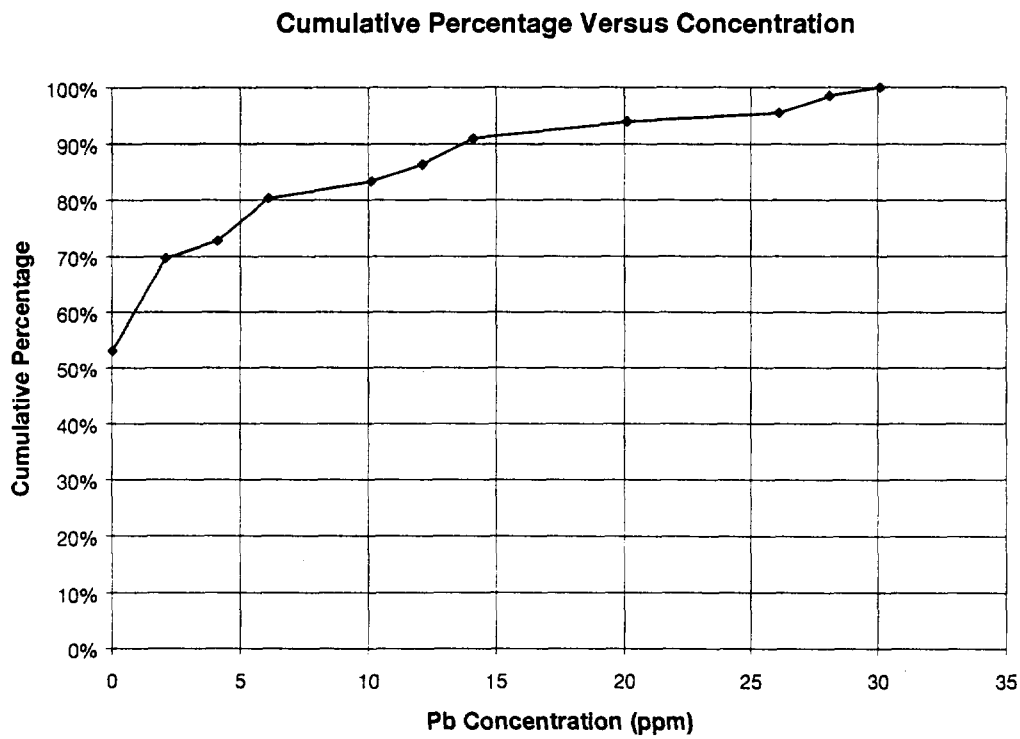
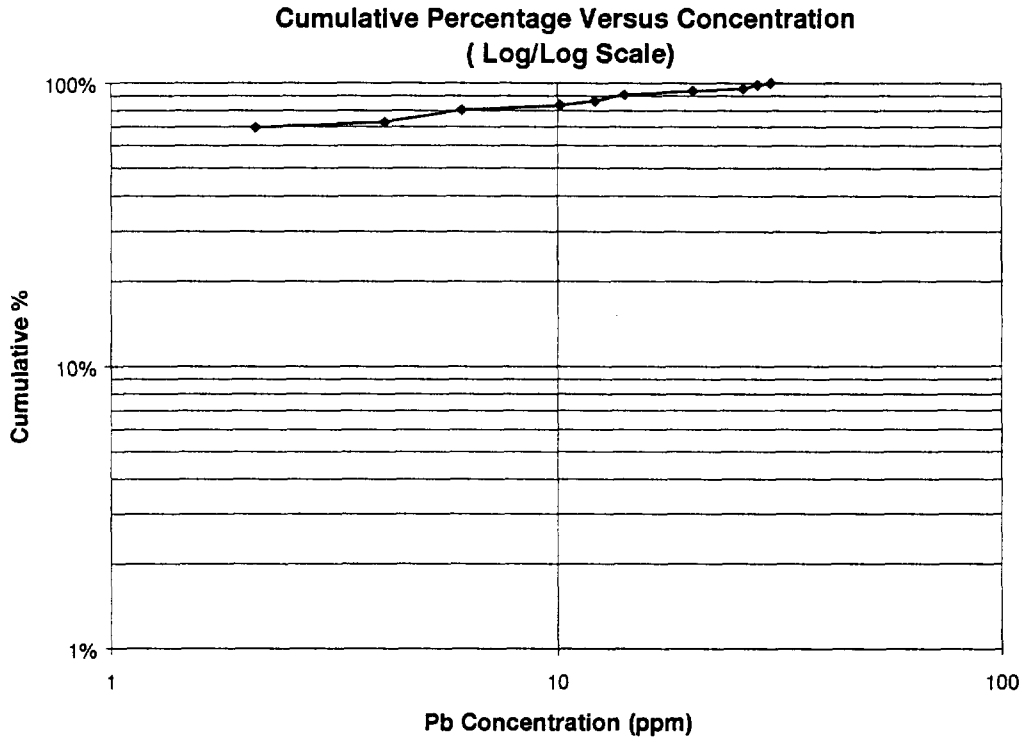


Chart 3 - Pb


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
Pb Concentration (ppm)

Zinc - Zn

Statistic Data :

Zn ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
47.4	40	40	33.1	1097.3	184	0	184	66

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Zn ppm
A9634498-40	R3071B	184
A9634498-33	R3048	174
A9634498-25	R3036	152
A9634498-39	R3071A	116

List of Samples between 90 to 95 Percentile ;

Sample Num.	Sample Desc.	Zn ppm
A9631968-28	R3014	96
A9631968-17	R3001	74
A9634498-17	R3027	68

Chart 1 - Zn

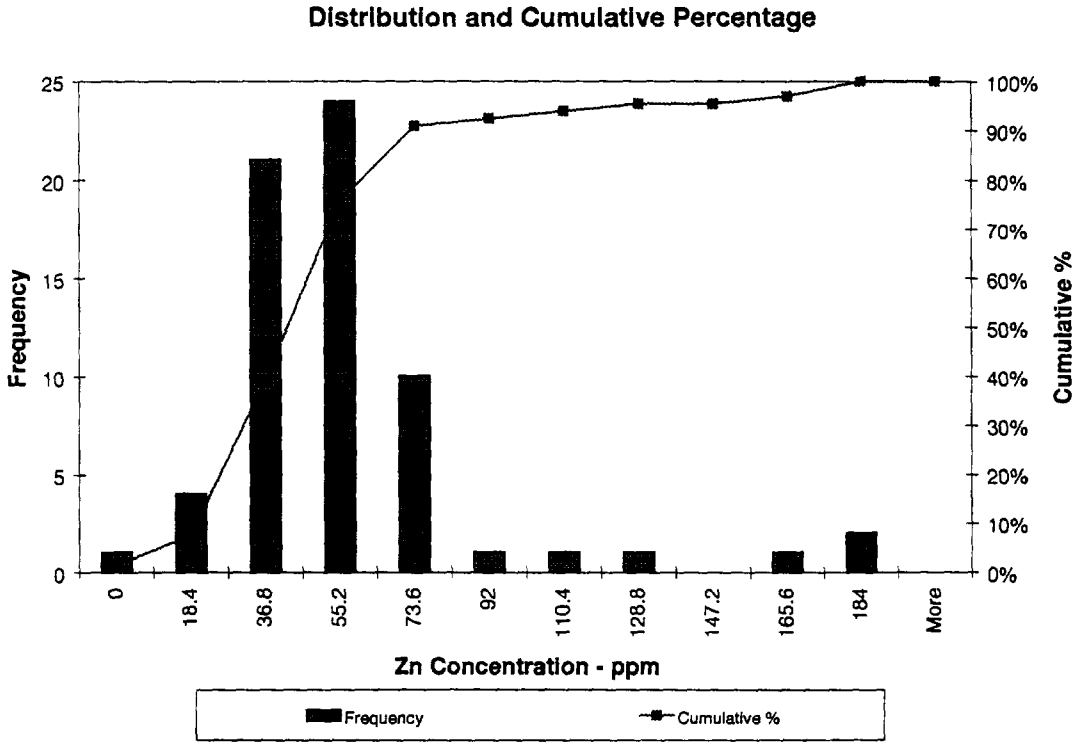


Chart 2 - Zn

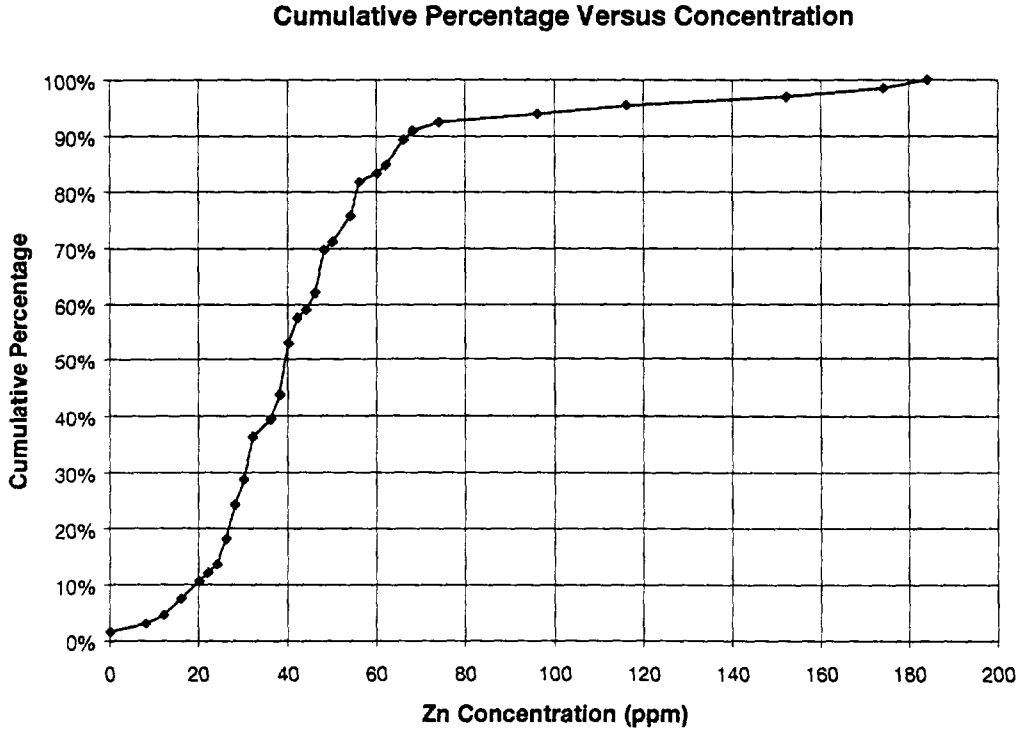
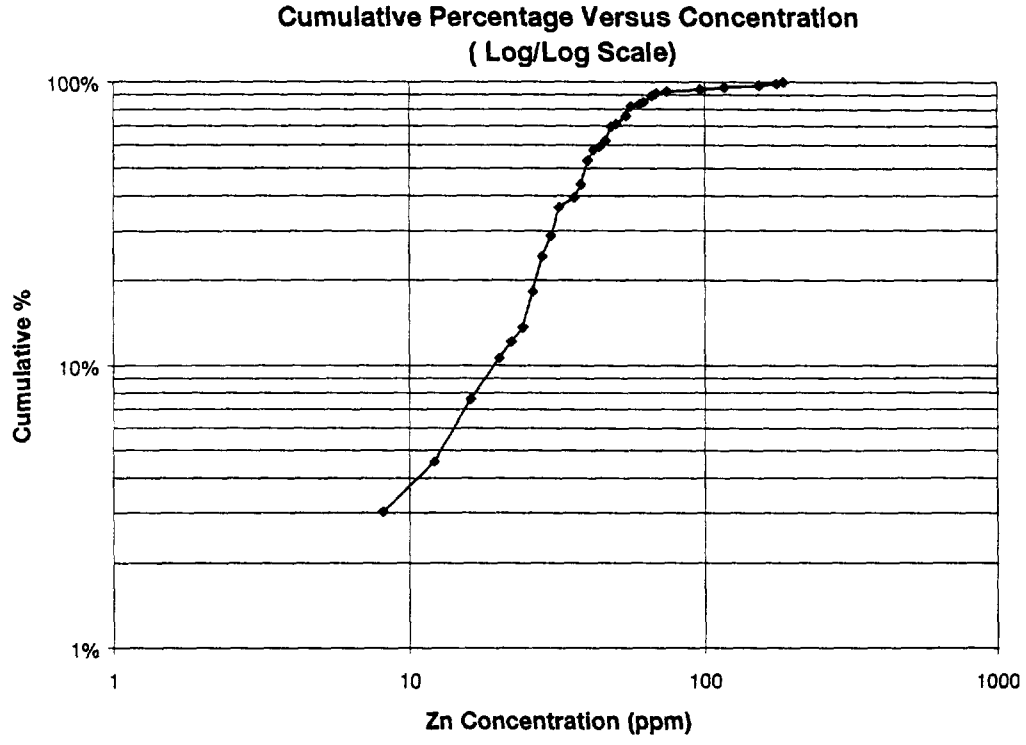


Chart 3 - Zn


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative %
1
10
100
1000
Zn Concentration (ppm)

Statistical Analysis - Soil
Sample Set IV

Data from for Set IV:

Certificate Number	Sample	Number of Samples
A9631967	S3001 - S3028	28
A9634497	S3029 - S3099	72

Note :

- In calculating the data set, for those results that were reported less than the detection limit is assigned to have a zero value.
- In the distribution and Cumulative Percentage Chart, the bin range is from 0 to the maximum values, with increments of 1/10 of the range.

Gold - Au

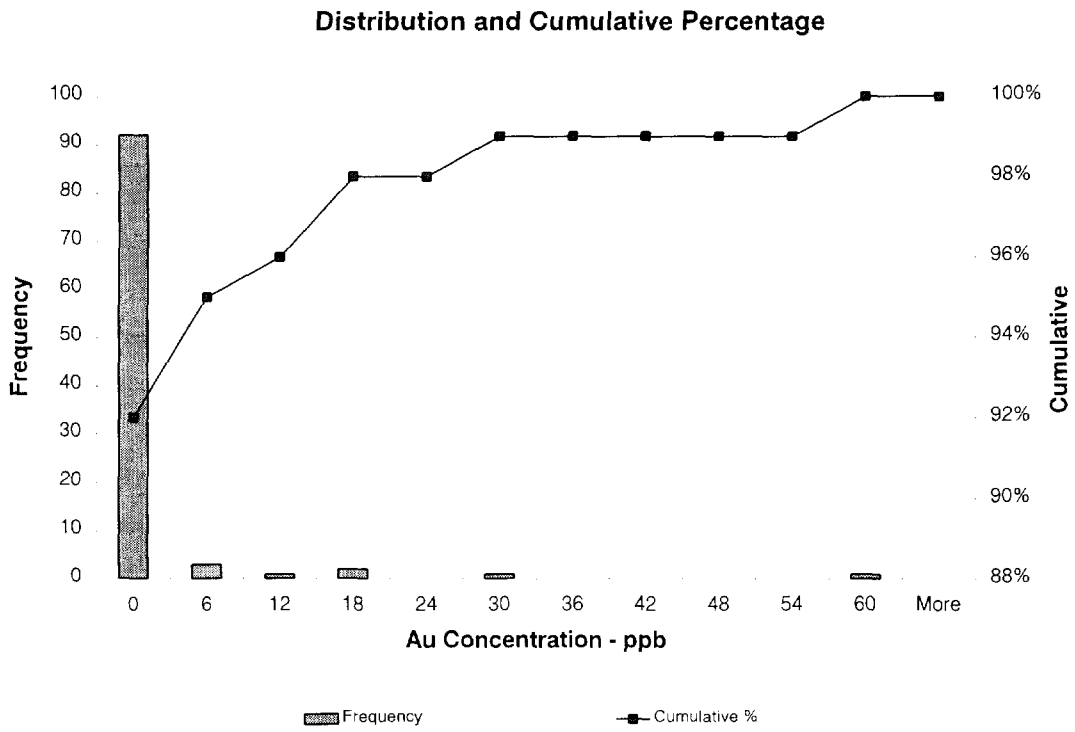
Statistic Data :

Au ppb								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
1.4	0	0	6.9	47.0	60	0	60	100

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Au ppb
A9634497-49	S3072	60
A9634497-57	S3080	25
A9634497-15	S3038	15
A9634497-44	S3067	15
A9631967-19	S3013	10

Chart 1 - Au



Silver - Ag

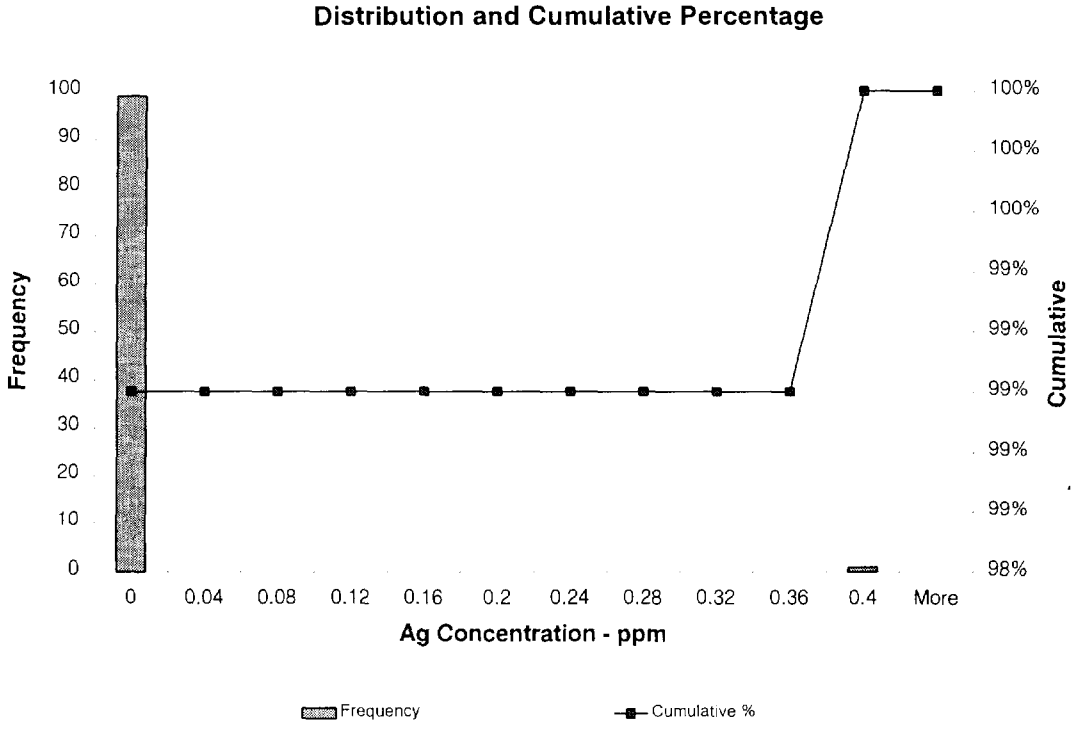
Statistic Data :

Ag ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
0.004	0	0	0.0	0.0	0.4	0	0.4	100

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Ag ppm
A9631967-32	S3026	0.4

Chart 1 - Ag



Cobalt - Co

Statistic Data :

Co ppm								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
7.47	6	6	5.7	31.9	39	2	41	100

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Co ppm
A9634497-20	S3043	41
A9631967-31	S3025	33
A9631967-32	S3026	22
A9631967-26	S3020	20
A9634497-67	S3089	20

List of samples between 90 to 95 Percentile :

Sample Num.	Sample Desc.	Co ppm
A9631967-13	S3007	19
A9634497-11	S3034	14
A9631967-19	S3013	13
A9634497-08	S3031	13
A9634497-50	S3073	13

Chart 1 - Co

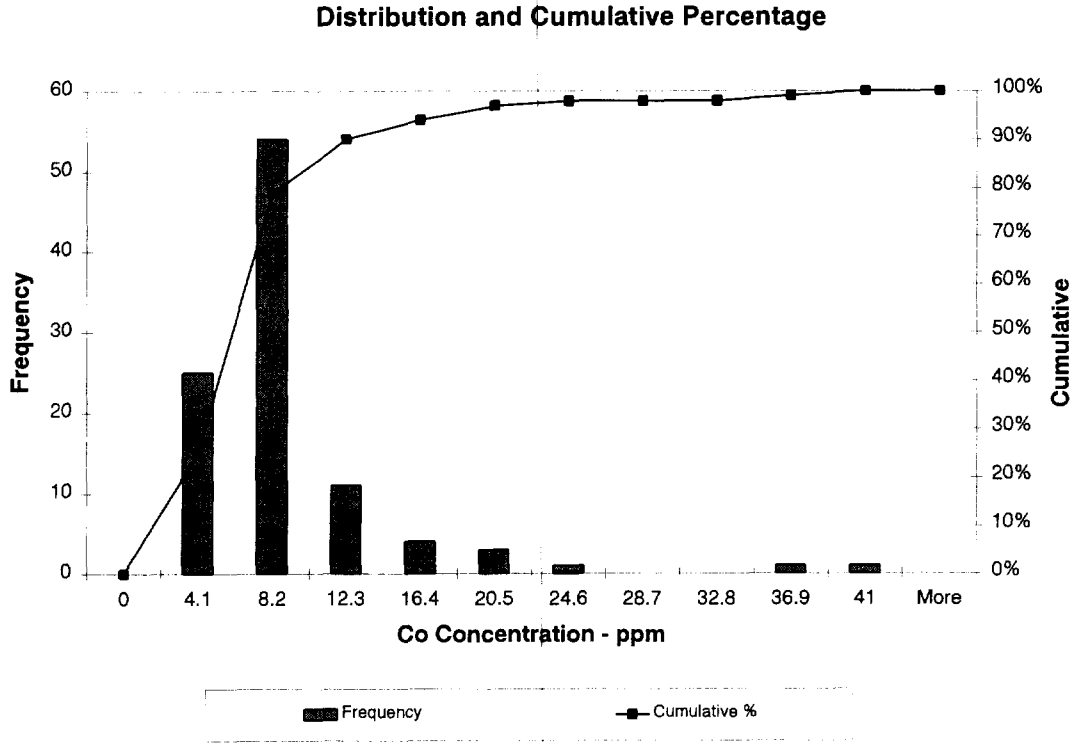


Chart 2 - Co

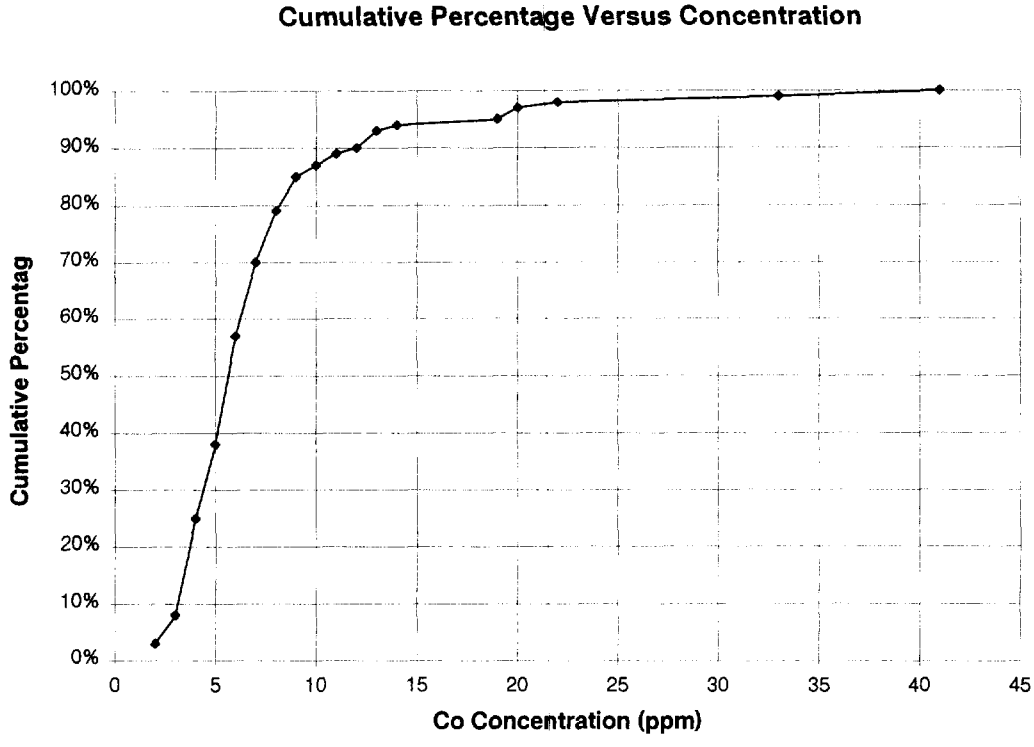
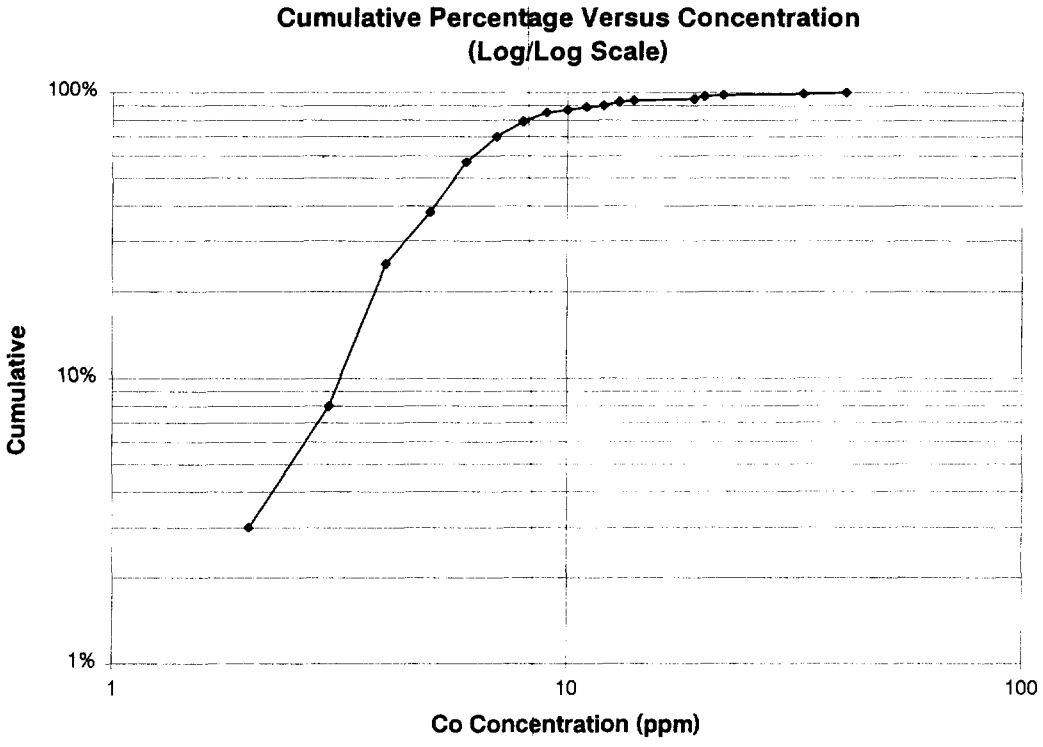


Chart 3 - Co


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
Co Concentration (ppm)

Chromium - Cr

Statistic Data :

Cr ppm								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
40.28	23	24	62.6	3920.7	408	9	417	100

List of +95 Percentile Sample :

Sample Num.	Sample Desc.	Cr ppm
A9634497-20	S3043	417
A9631967-31	S3025	305
A9631967-13	S3007	298
A9634497-11	S3034	231
A9631967-32	S3026	192

List of samples between 90 to 95 Samples :

Sample Num.	Sample Desc.	Cr ppm
A9634497-50	S3073	142
A9631967-25	S3019	104
A9634497-67	S3089	80
A9634497-59	S3082	71
A9634497-12	S3035	69

Chart 1 - Cr

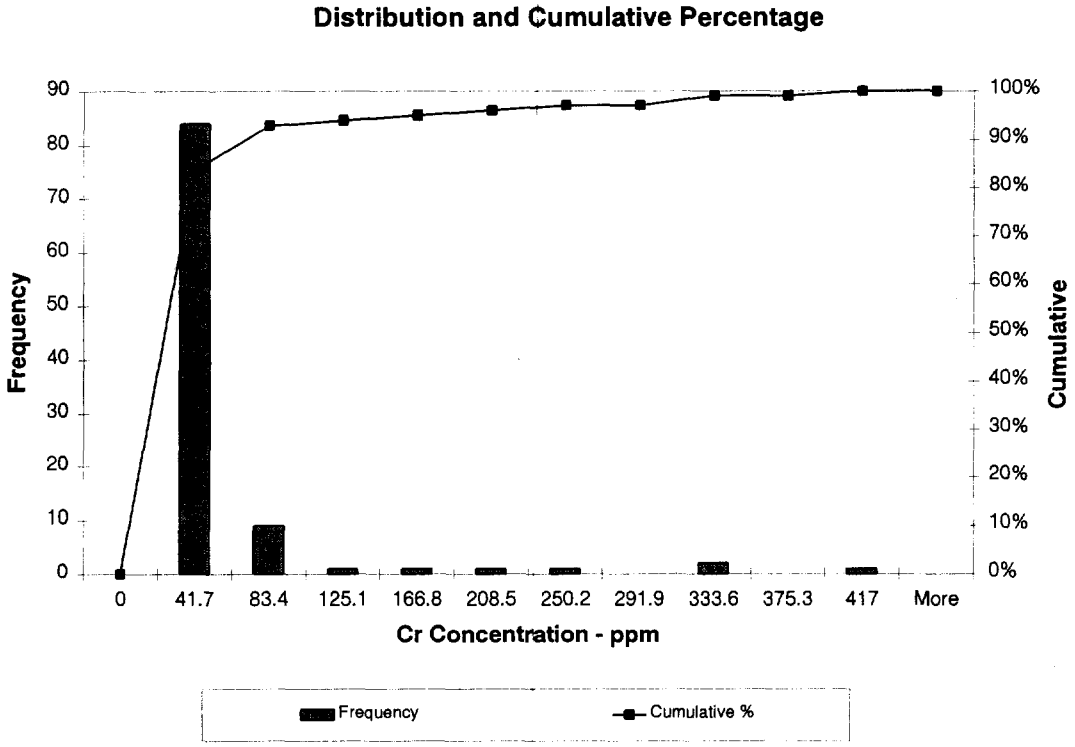


Chart 2 - Cr

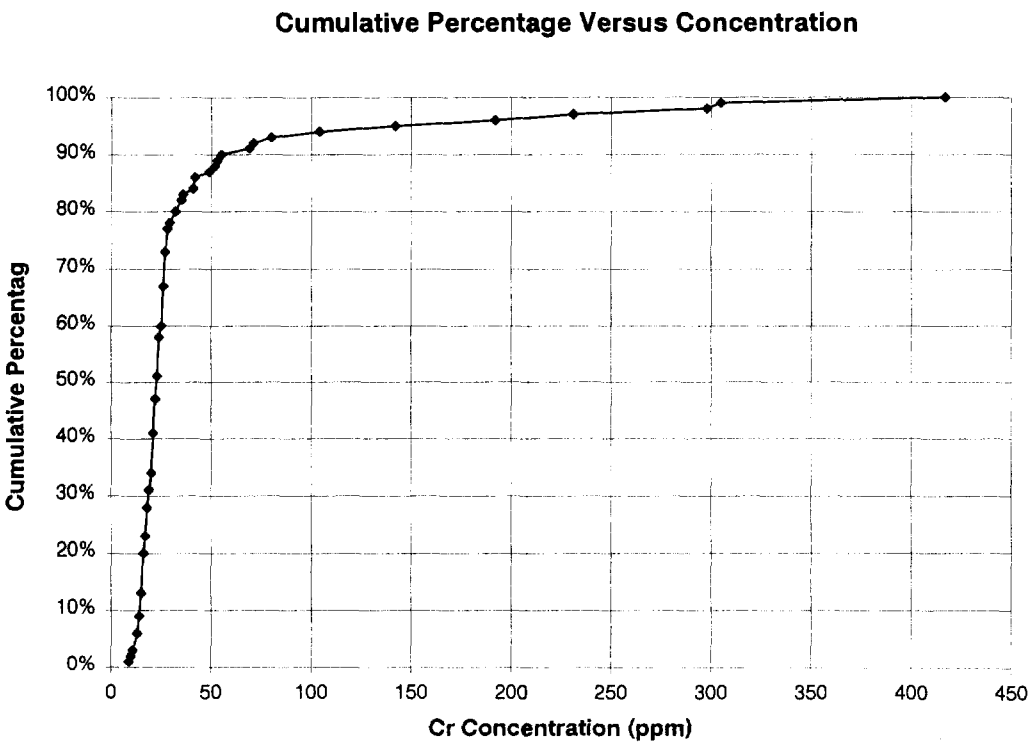
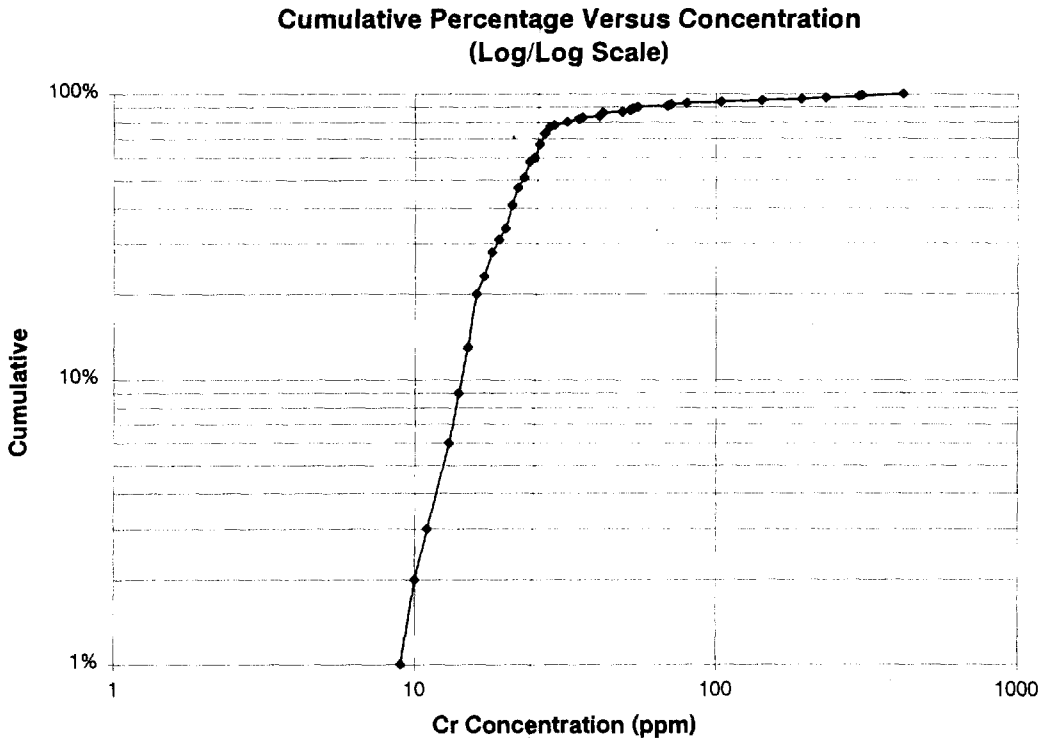


Chart 3 - Cr


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
1000
Cr Concentration (ppm)

Copper - Cu

Statistic Data:

Cu ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
14.72	8	4	17.2	296.9	95	1	96	100

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Cu ppm
A9631967-32	S3026	96
A9631967-31	S3025	81
A9631967-18	S3012	63
A9631967-26	S3020	61
A9631967-08	S3002	58

List of Samples between 90 to 95 Percentile :

Sample Num.	Sample Desc.	Cu ppm
A9634497-15	S3038	49
A9634497-67	S3089	49
A9631967-25	S3019	46
A9631967-20	S3014	39
A9634497-68	S3090	39

Chart 1 -Cu

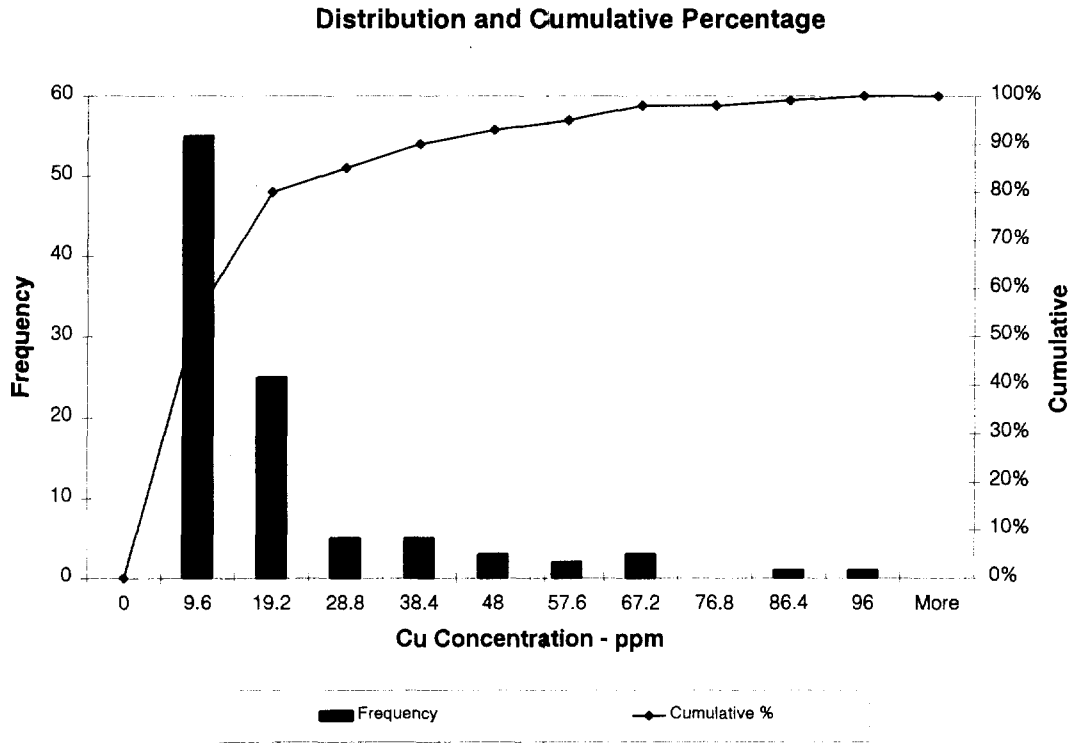


Chart 2 - Cu

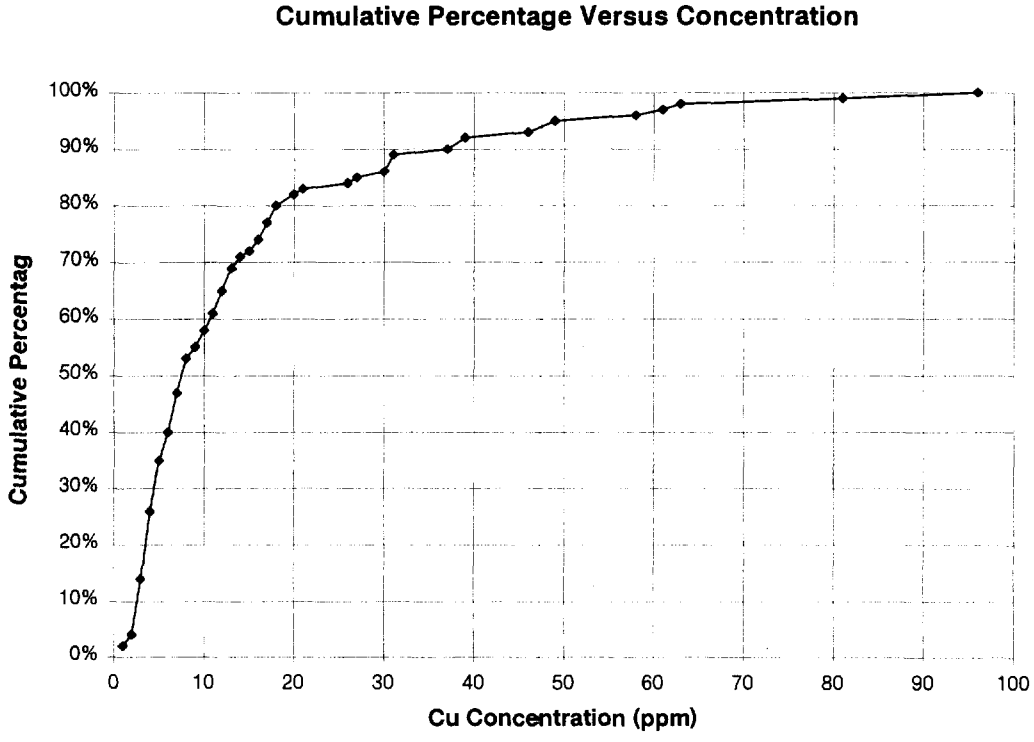
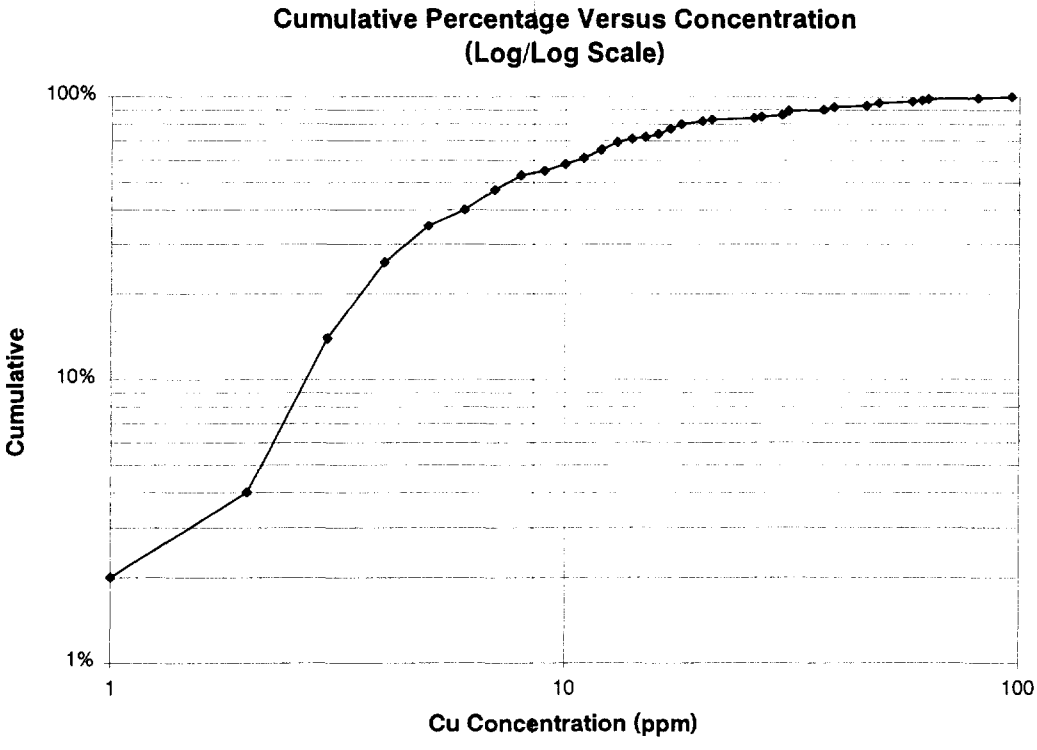


Chart 3 - Cu


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
Cu Concentration (ppm)

Molybdenum - Mo

Statistic Data :

Mo ppm								
Mean	Median	Mode	Standard Deviation	Sample Variance	Range	Minimum	Maximum	Count
0.13	0	0	0.5	0.3	3	0	3	100

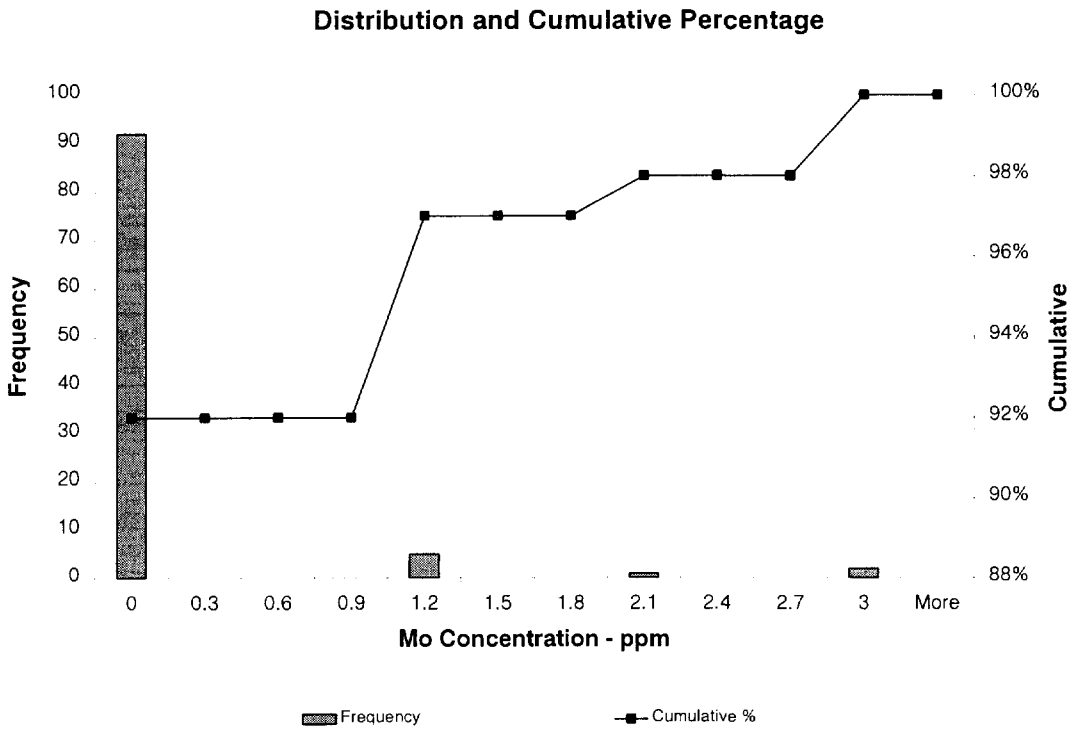
List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Mo ppm
A9634497-50	S3073	3
A9634497-60	S3083	3
A9634497-51	S3074	2

List of Samples Between 90 to 95 Percentile:

Sample Num.	Sample Desc.	Mo ppm
A9631967-08	S3002	1
A9631967-26	S3020	1
A9634497-14	S3037	1
A9634497-15	S3038	1
A9634497-62	S3084B	1

Chart 1 - Mo


Distribution and Cumulative Percentage
100
90
80
70
60
50
40
30
20
10
0
Frequency
100%
98%
96%
94%
92%
90%
88%
Cumulative
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
More
Mo Concentration - ppm
Frequency
Cumulative %

Nickel - Ni

Statistic Data :

Ni ppm								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
22.61	15	11	38.1	1448.3	358	4	362	100

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Ni ppm
A9634497-20	S3043	362
A9634497-50	S3073	92
A9634497-11	S3034	84
A9631967-32	S3026	83
A9631967-31	S3025	80

List of between 90 to 95 Percentile Samples :

Sample Num.	Sample Desc.	Ni ppm
A9631967-13	S3007	74
A9634497-12	S3035	46
A9631967-14	S3008	43
A9634497-67	S3089	38
A9631967-25	S3019	35

Chart 1 - Ni

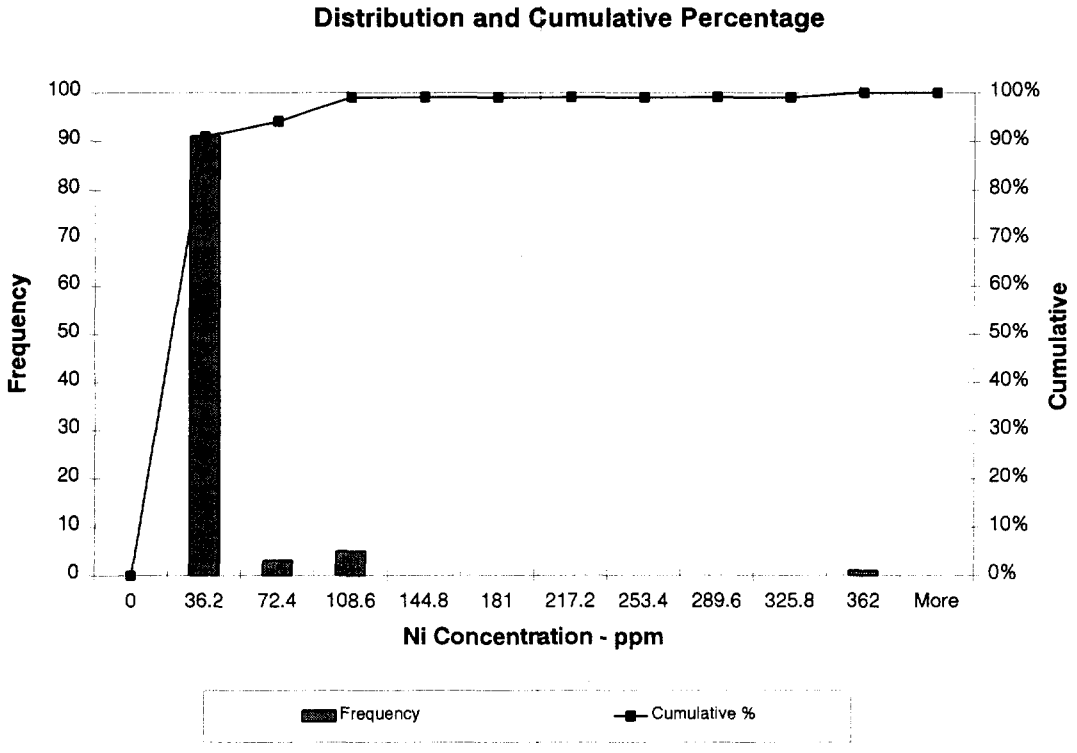


Chart 2 - Ni

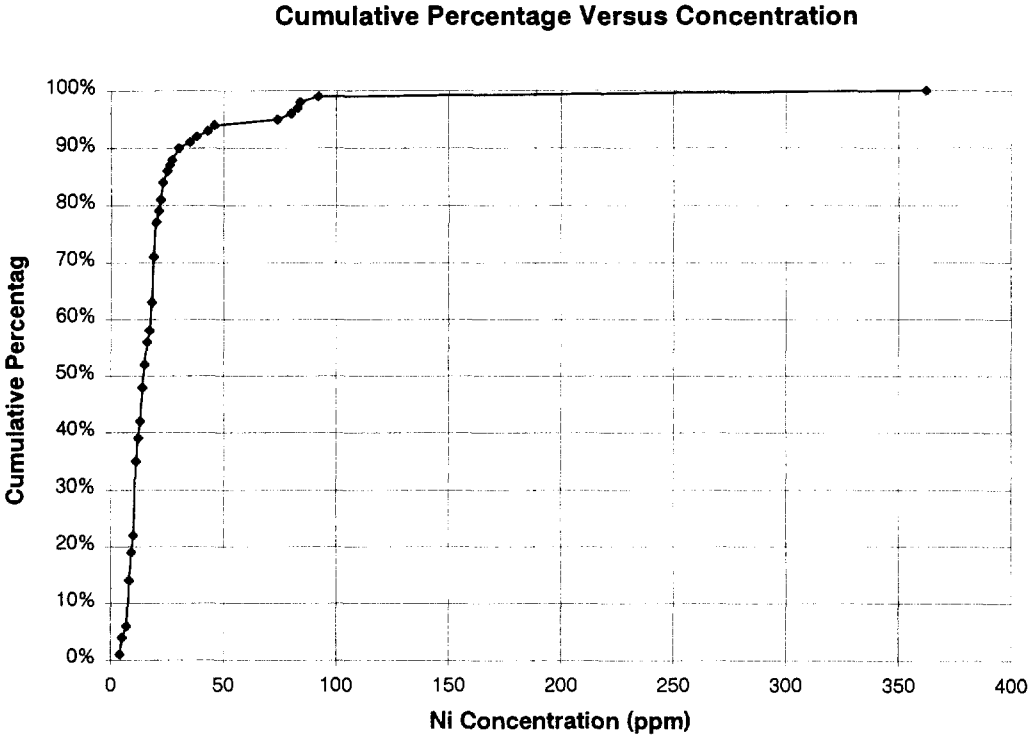
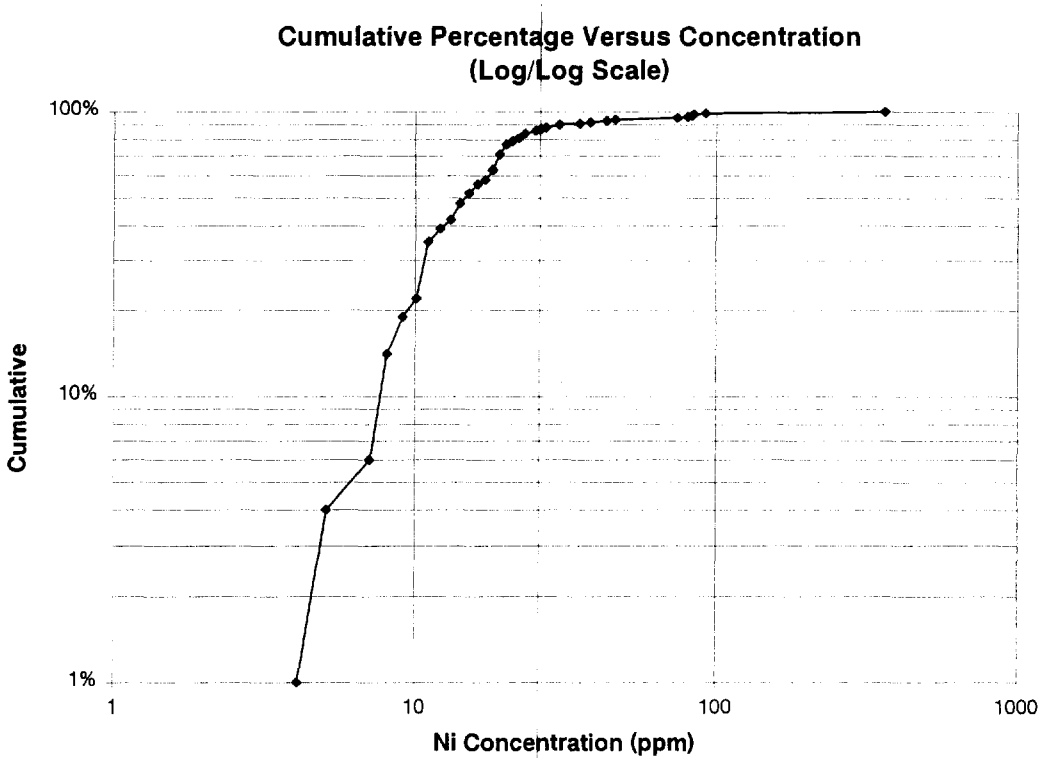


Chart 3 - Ni


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
1000
Ni Concentration (ppm)

Lead - Pb

Statistic Data :

Pb ppm								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
6.12	6	6	3.5	12.1	24	2	26	100

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Pb ppm
A9634497-50	S3073	26
A9634497-59	S3082	18
A9631967-08	S3002	14

List of Samples Between 90 to 95 Percentile:

Sample Num.	Sample Desc.	Pb ppm
A9631967-25	S3019	12
A9631967-29	S3023	12
A9634497-15	S3038	12
A9634497-20	S3043	12

Chart 1 -Pb

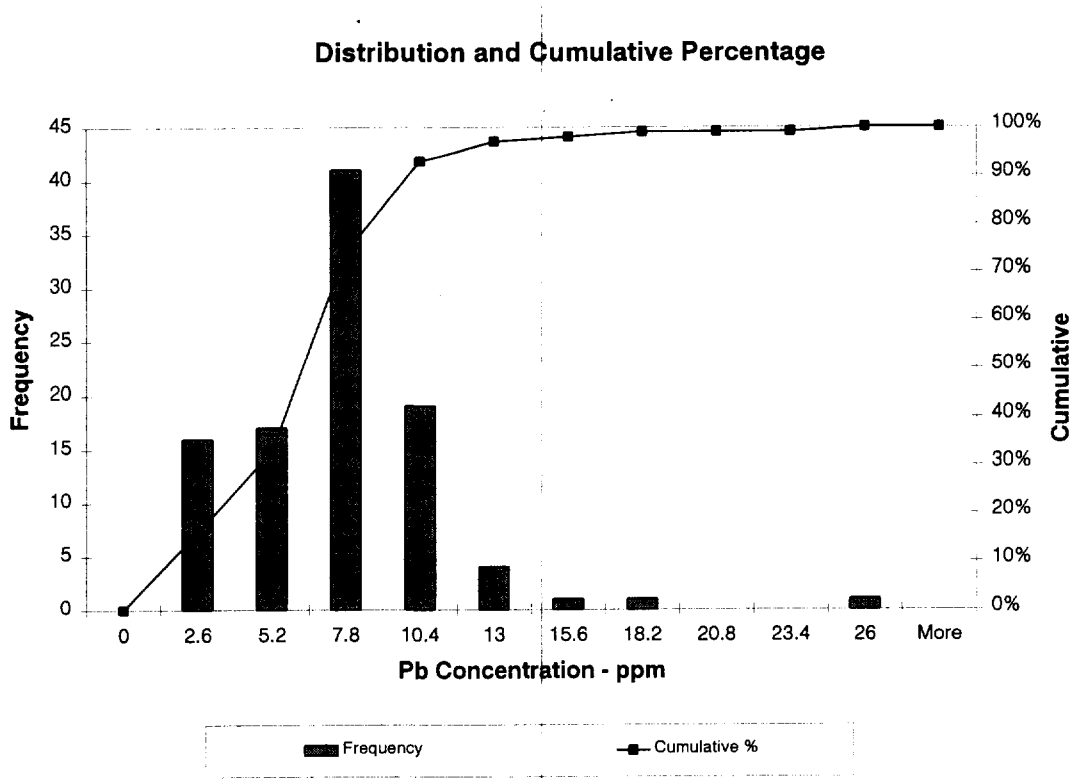


Chart 2 - Pb

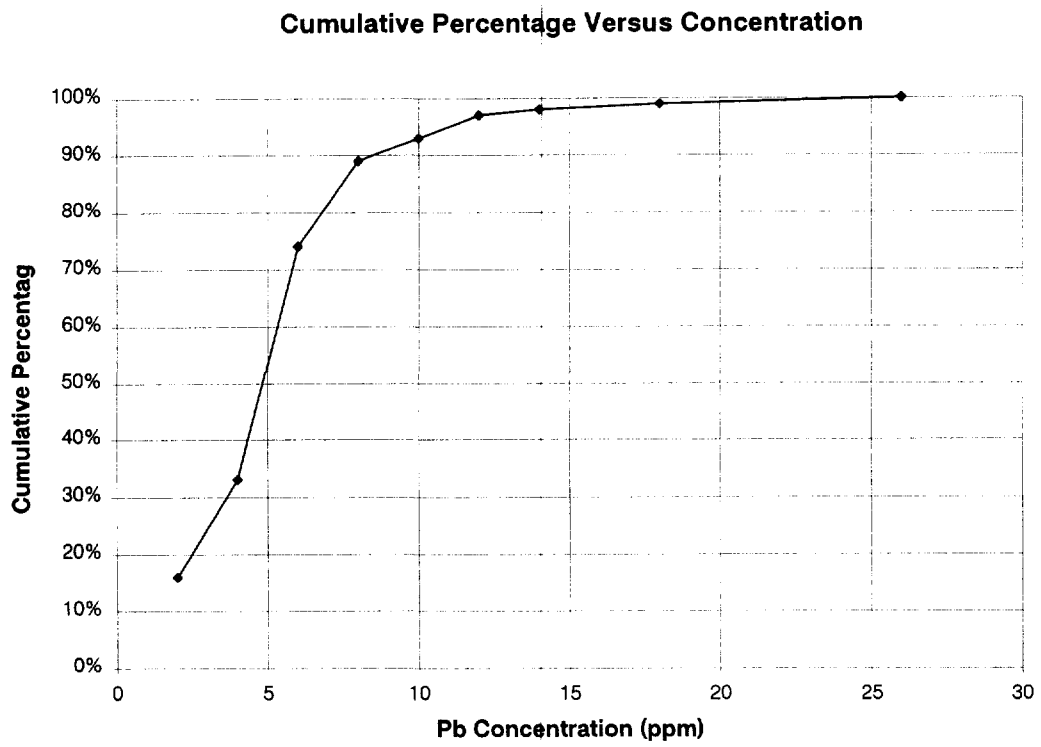
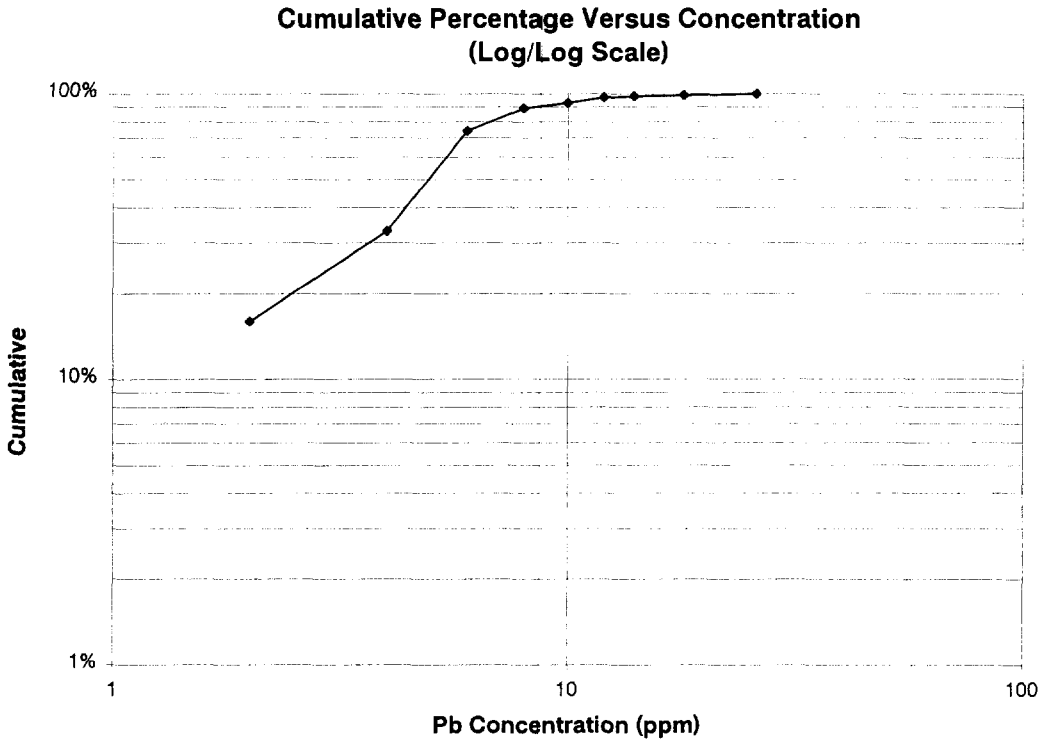


Chart 3 - Pb


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
Pb Concentration (ppm)

Zinc - Zn

Statistic Data :

Zn ppm								
Mean	**Median**	**Mode**	**Standard Deviation**	**Sample Variance**	**Range**	**Minimum**	**Maximum**	**Count**
37.02	28	20	32.1	1028.4	236	10	246	100

List of +95 Percentile Samples :

Sample Num.	Sample Desc.	Zn ppm
A9631967-29	S3023	246
A9634497-67	S3089	176
A9631967-31	S3025	120
A9634497-68	S3090	94
A9634497-50	S3073	92

List of Samples between 90 to 95 Percentile ;

Sample Num.	Sample Desc.	Zn ppm
A9634497-41	S3064	76
A9634497-07	S3030	72
A9631967-11	S3005	70
A9631967-32	S3026	68
A9634497-20	S3043	68

Chart 1 - Zn

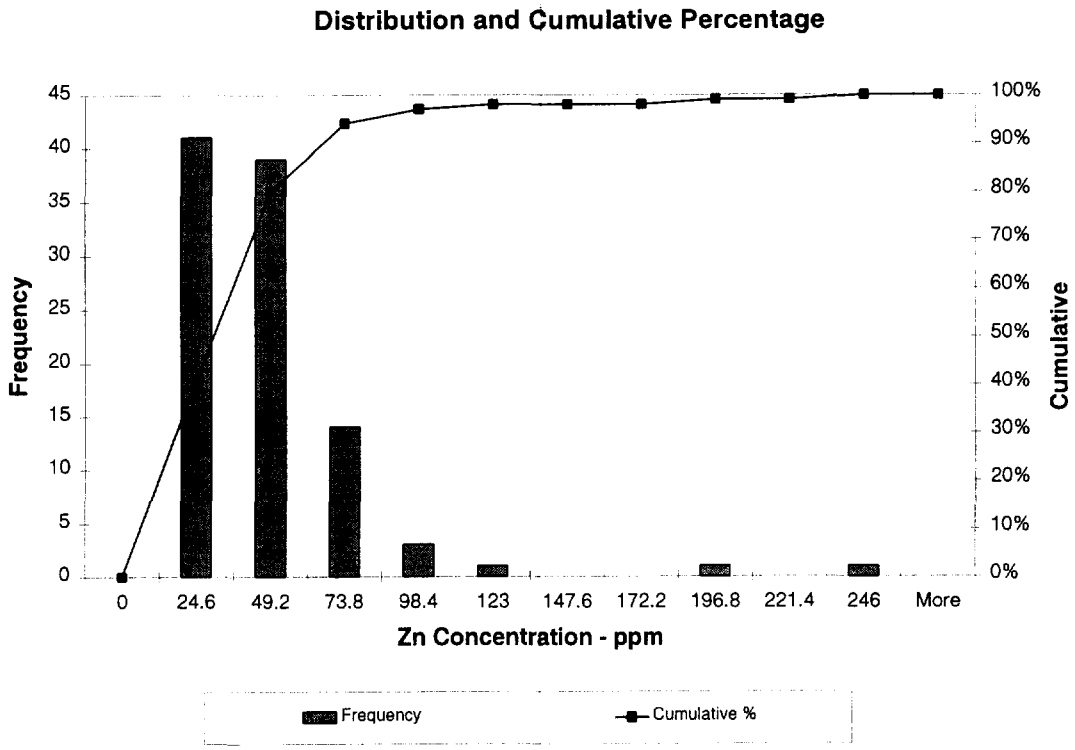


Chart 2 - Zn

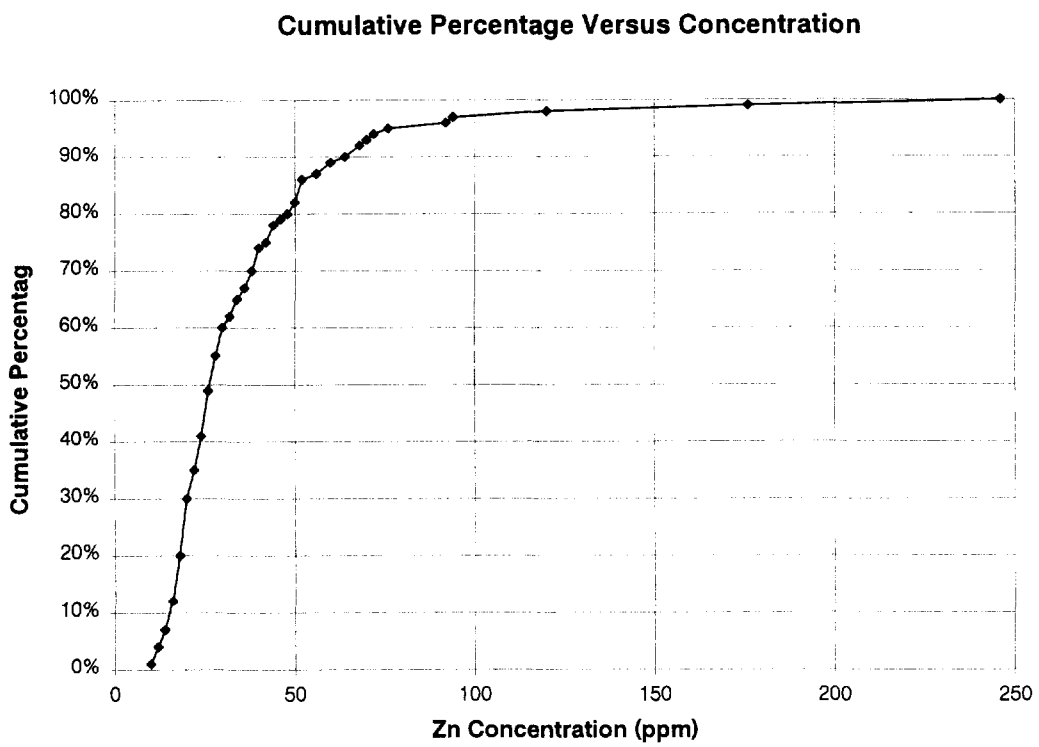
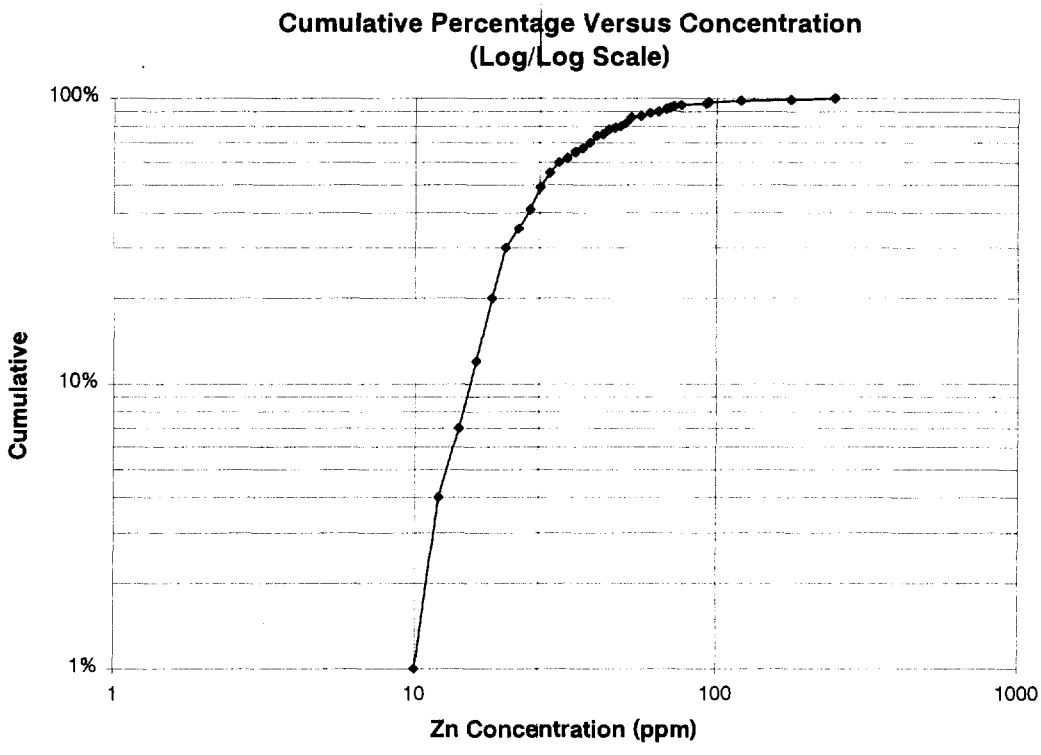


Chart 3 - Zn


Cumulative Percentage Versus Concentration
(Log/Log Scale)
100%
10%
1%
Cumulative
1
10
100
1000
Zn Concentration (ppm)

Ontario

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9710.00060
Assessment Files Research Imaging

900

2.17123

Personal information colle
Mining Act, the informatio
Questions about this co
933 Ramsey Lake Road,

(3) of the Mining Act. Under section 8 of the
and correspond with the mining land holder.
rthern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
Mr. Blaine Webster	207197
Address	**Telephone Number**
27 Blue Spruce Lane	905 881-8488
Thornhill, Ont. L3T 3W8	**Fax Number**
Name	**Client Number**
Address	**Telephone Number**
	Fax Number

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MAR 14 1997
MINING LANDS BRANCH

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
Geological Mapping & Geochemical Analyses & Field Supervision	Commodity
	Total $ Value of Work Claimed 28,337.00
Dates Work Performed From 01 (Day) 10 (Month) 95 (Year) To 04 (Day) 12 (Month) 96 (Year)	NTS Reference
Global Positioning System Data (if available) — Township/Area: MEGGISI L. & BOYER L.	Mining Division Kenora
M or G-Plan Number: G2688 & G2572	Resident Geologist District Kenora

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
JEANETTE LOUEIM & ASSOCIATES	416 925 1869
Address	**Fax Number**
219 Howland Ave, Toronto, Ont M5R 3B7	
Name	**Telephone Number**
G.A. Harron + Associates Inc.	905 274 0463
Address	**Fax Number**
1050 Caldwell Ave, Mississauga Ont. L5H 1Z4	905 274 0463
Name	**Telephone Number**
Address	**Fax Number**

4. Certification by Recorded Holder or Agent

I, G.A. HARRON (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
Gerald A Harron		March 4 1997
Agent's Address	**Telephone Number**	**Fax Number**
1050 Caldwell Ave, Mississauga Ont L5H 1Z4	905 274 0463	905 274 0463

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

2.17123

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1150144 ✓	15	6,160	6,000	0	160
2	1150145 ✓	8	3,286	3,200	0	86
3	1178058 ✓	12	4,928	4,800	0	128
4	1178112	16	6,571	6,000	0	~~171~~ 571
5	1178115	6	2,464	2,400	0	64
6	1178116	12	4,928	4,800	0	128
7						
8						
9						
10						
11						
12						
13						
14						
15				27 200		
		Column Totals	28 337	~~27,600~~	6	~~737~~ 1137

RECEIVED
MAR 14 1997
MINING LANDS BRANCH

I, G. A. HARRON (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
G A Harron	March 4 1997

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☑ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	June 4, 1997	
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature) (ACTING)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9710.00060

Sunshine Lake

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.17123

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Field Supervision	7.2 days	$550.00	3956.18
Geological Mapping & Geochemical Analyses	69/259 of Contract	$342.22 = 1/259th	23,613.64
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
69/259ths of Cumulative Expenditures		$8.87 = 1/259th	612.25
Food and Lodging Costs			
69/259th of Cumulative Expenditures		$2.24 = 1/259th	154.59
		Total Value of Assessment Work	28,336.66

RECEIVED
MAR 14 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, G.A. HARRON (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: G A Harron Date: March 4 1997

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

May 20, 1997

Scott A. Rivett
Mining Recorder
808 Robertson Street
P.O. Box 5200
Kenora, ON
P9N 3X9

Dear Sir or Madam:

Submission Number: 2.17123

Subject: Transaction Number(s):		Status
	W9710.00060	Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

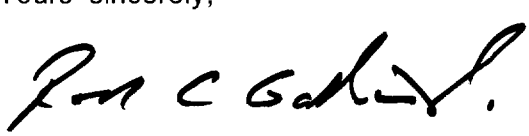
If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jerome_l@torv05.ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,



ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Correspondence ID: 10850
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17123

Date Correspondence Sent: May 20, 1997 **Assessor:** Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9710.00060	1150144	MEGGISI LAKE, BOYER LAKE	Approval	May 16, 1997

Section:

12 Geological GEOL

The value claimed has not changed because of the assessment but the distribution of work has changed to more closely reflect where the work was performed.

Correspondence to:

Mining Recorder
Kenora, ON

Resident Geologist
Kenora, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Gerald A. Harron
MISSISSAUGA, ONTARIO, CANADA

BLAINE RICHARD WEBSTER
THORNHILL, Ontario

Correspondence ID: 10850

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s). Please contact the Mining Recorder to determine if this affects the status of your claims.

Date: May 20, 1997

Submission Number: 2.17123

Transaction Number: W9710.00060

Claim Number	Value Of Work Performed
1150144	12,150.00
1150145	6,500.00
1178058	9,687.00
1178112	0.00
1178115	0.00
1178116	0.00
Total: $	28,337.00

Correspondence ID: 10850

27 Blue Spruce Lane
Thornhill, Ontario
L3T 3W8

December 12, 1996

Mining Recorder's Office,
Ministry of Northern Development and Mines,
Box 5200,
808 Robertson St.,
Kenora, Ontario,
P9N 3X9

2.17123

Dear: Sirs

This is to certify that Gerald A. Harron is authorized to act as the agent for Blaine Webster for the purpose of filing assessment work credits and their distribution for a period of one (1) year until further notice.

Sincerely,

Blaine Webster

BOYER LAKE G-2572

92°45' 92°30' 49°22'30"

1178207 Upper Manitou Lake 1224624 1178112 1178115 Sunshine Lake 1178116 Uphill Lake 1178058 1150144 1150145

2.17123 GEOL.

BASE LINE SURVEYED BY SPEIGHT & VAN NOSTRAND O.L.S. 1928

9M. 10M. 11M. 12M. 13M. 14M. 15M. 16M. 17M. 18M. 19M.

Taylor Kennewopekko Lake 1174851 1178077 1178078 Thundercloud Lake 1178080 1178079 1200654 1200650 Dorothy L. 1200652

1105473 1105471 1105470 1174850 Trout R.

LOWER MANITOU LAKE G-2683

WAPAGEISI LAKE G-2598

Scattergood Meggisi Lake Rawlinson L. Kinnyu L. Trout River

22' 21' 20' 19' 18' 17' 16'

49°15' 92°45' 44' 43' 42' 41' 40' 39' 38' 37' 36' 35' 34' 33' 32' 31' 92°30' 49°15'

EAGLE ROCK LAKE G-2672

493923

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- SURVEYED LINES: LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES
- UNSURVEYED LINES: PARCEL BOUNDARY
- UNSURVEYED LINES: MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT
- TOURIST CAMPS (OP-OUTPOST) OP

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	■
" , MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	◔
CANCELLED	⊗
SAND & GRAVEL	◔

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

REFERENCES

UPDATED

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

MEGGISI LAKE

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES/DRYDEN
MINING DIVISION
KENORA
LAND TITLES / REGISTRY DIVISION
KENORA

DATE OF ISSUE MAY 16 1997 KENORA MINING DIVISION

Ministry of Natural Resources Ontario — Land Management Branch

Date FEBRUARY, 1984. M. 2553

Number G-2688

DATE PUT IN SERVICE
JUL 25 1996
KENORA MINING DIVISION

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

52F07SE0010 2.17123 MEGGISI LAKE

SUNSHINE LAKE

STARSHINE LAKE

DRILL TARGET #1

LEGEND

Lamprophyre	LAMP
Basalt	BAS
Gabbro	GAB
Pyroxenite	PYROX
Qtz-Flsp-Porphyry	QFP
Granite	GRAN
Gossan	GOS
Pyrite	PY
Sulphides	"S"
Arsenopyrite	ASPY
Chalcopyrite	CPY
Pyrrhotite	PO
Grey-Green-Silie (CHERTY)	GREY-GR SIL
Quartz Vein (STRINGER)	Q.V.
Buried Outcrop	BUR O.C.
Outcrop Area Presumed o.c. Or Contact	
Outcrop (+ 3m)	
Swamp	
Lake/Pond	
Claim Line Tie Line	CL-TL
Fold	
Shear	
Foliation/Lineation (Strike/Dip)	
Jointing - Inclined - Vertical	
Steep Scarp/Strike	SCARP
Rock Sample	R 1001
Soil Sample	S 1007
Up Hill/Up Cliff Direction	
Main Lumber Road	
Old Bush Road	
Boulders	
Claim Post/Line Tag	
Stripping Trenching Or Blasting	
Conductor (SEMI, WEAK)	
Fault	

2.17123

BLACK PEARL MINERALS INC.	
SUNSHINE LAKE SOUTH GEOLOGICAL SURVEY	
SCALE 1:2500 (25 0 50 100)	GEOLOGY by: jeanette lourim
	DRAFTING: jeanette lourim
jeanette lourim & assoc. consulting geologists	noor yousif

210

UPHILL LAKE

SUNSHINE LAKE

VOLCANIC SEDIMENTS

RHYOLITES

SUB-ALKAIC FELSIC VOLCANICS

GAB/LAMP

MAG Hi

MAG LOW

GC

OPEN SWAMP

OPEN WATER

LAKE

VALLEY

POSSIBLE FAULT

FAULT

BL 0+00

16+00 N

15+00 N

14+00 N

13+00 N

12+00 N

11+00 N

TL10+00 N

9+00 N

8+00 N

7+00 N

6+00 N

5+00 N

4+00 N

LEGEND

Lamprophyre	LAMP
Basalt	BAS
Gabbro	GAB
Pyroxenite	PYROX
Qtz-Flsp-Porphyry	QFP
Granite	GRAN
Gossan	GOS
Pyrite	PY
Sulphides	*S*
Arsenopyrite	ASPY
Chalcopyrite	CPY
Pyrrhotite	PO
Grey-Green-Silic (CHERTY?)	GREY-GR SIL
Quartz Vein (STRIKE)	Q.V. →
Buried Outcrop	BUR O.C.
Outcrop Area +Presumed o.c. (Or Contact)	
Outcrop (<3m)	
Swamp	
Lake / Pond	
Claim Line Tie Line	CL-TL
Fold	
Shear	
Foliation / Lineation Strike/Dip	
Jointing-Inclined -Vertical	
Steep Scarp/Strike	SCARP
Rock Sample	R 1001
Soil Sample	S 1007
Up Hill / Up Cliff Direction	
Main Lumber Road	
Old Bush Road	
Boulders	
Claim Post Line Tag	
Stripping Trenching Or Blasting	
Conductor SEMI, WEAK	—C—C—C—
Fault	—|—|—|

BLACK PEARL MINERALS INC.

SUNSHINE LAKE NORTH
GEOLOGICAL SURVEY

SCALE 1:2500

25 0 50 100

GEOLOGY by
jeanette lourim

DRAFTING by
jeanette lourim
noor yousif

jeanette lourim associates
consulting geologists

2.17123