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MINING RECORDER
WATSON LAKE, Y.T.
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ASSESSMENT REPORT ON THE 1996 BIOGEOCHEMISTRY SURVEY ON THE CYR PROPERTY

REPORT No.: 97-CYR-1.RPT

CYR 1-76 (YB56979-57054)

093669

WATSON LAKE MINING DISTRICT, YUKON TERRITORY
62km Southeast of Ross River, Yukon Territory.

NTS MAP SHEET 105G/11 & 12

Latitude: 61° 33'N
Longitude: 131° 33'W

Work Conducted: May 8, 1996

OWNER AND OPERATOR:
Kennecott Canada Exploration Inc.
354-200 Granville St.
Vancouver, B.C.
V6C 1S4

Prepared by: Roger Hulstein **April 18, 1997**

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 7600.

MBurk

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

SUMMARY

The Cyr property is located in the Watson Lake Mining District of Yukon Territory. The property consists of 76 contiguous mineral claims (CYR 1-76) owned 100% by Kennecott Canada Exploration Inc. The Cyr claims were staked to cover the possible up-ice source of high grade zinc float found on the adjacent Argus property located to the northwest. The property is accessible by helicopter based in Ross River 62km northwest of the property. Prior to 1995 no work has been reported from the area covered by the Cyr property although a number of bulldozer tote roads cross the property.

The Cyr property is a sedimentary-exhalative (sedex) lead-zinc-silver-barite exploration target. The property lies within the Nisutlin allochthon, part of the Yukon-Tanana Terrane, a sequence of clastic sedimentary, volcanic and igneous protoliths that represent a displaced volcanic arc. Surficial glacial and glaciofluvial deposits cover the property. Although very little outcrop is found on the property, lithologies underlying it are presumed to consist of (Devono-Mississippian age) phyllitic quartzite, chloritic phyllite, limestone and muscovite phyllite.

Surficial studies and air photo interpretations indicate that the last glacial ice movements in the Northlake Creek valley were directed southwest down Northlake Creek where it merged with the northwest flowing ice in the Tintina Trench. Three easterly flowing meltwater channels on the northeast side of the Cyr property drain the A and B Zone area. Vein type barite containing sphalerite was located in one of these meltwater channel gravels in 1995. Based on the 1995 soil geochemical anomalies and glacial ice movements, postulated sources of the high grade zinc float found on the Argus property may be the central portion (A Zone source) and the northwest corner (B Zone source) of the Cyr property.

In 1996 a helicopter tree-top sampling program was carried out to further explore the properties lead-zinc potential and to determine if biogeochemistry is an effective and efficient exploration method. A total of 84 treetop samples, primarily black spruce (*Picea mariana*) were collected in two hours of helicopter (Bell 206) flying time. Samples were analyzed by ICP-ES for 32 elements and mercury by specific technique. Samples from the northwest corner of the property returned anomalous values for Ba, Cu, Hg and Zn. This same area returned anomalous soil samples in 1995 and is located near the 'B' zone on the adjacent Argus property. Anomalous biogeochemistry values were also returned from the central portion of the property. Although additional biogeochemical sampling is required and the analytical technique may need to be modified, treetop biogeochemistry worked on the Cyr property. The method promises to be a quick and efficient method of exploring overburden covered areas.

Based on these results, further biogeochemical and soil surveys along with additional prospecting and mapping are recommended.

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1.0 INTRODUCTION

This report summarizes the biogeochemistry survey carried out in 1996 and fulfils assessment requirements. The objective of the 1996 program was to evaluate the Cyr property's potential to host a massive sulphide deposit(s). Exploration work focused on the area up-ice of the A and B Zones (lead-zinc occurrences) found on the adjacent Argus property.

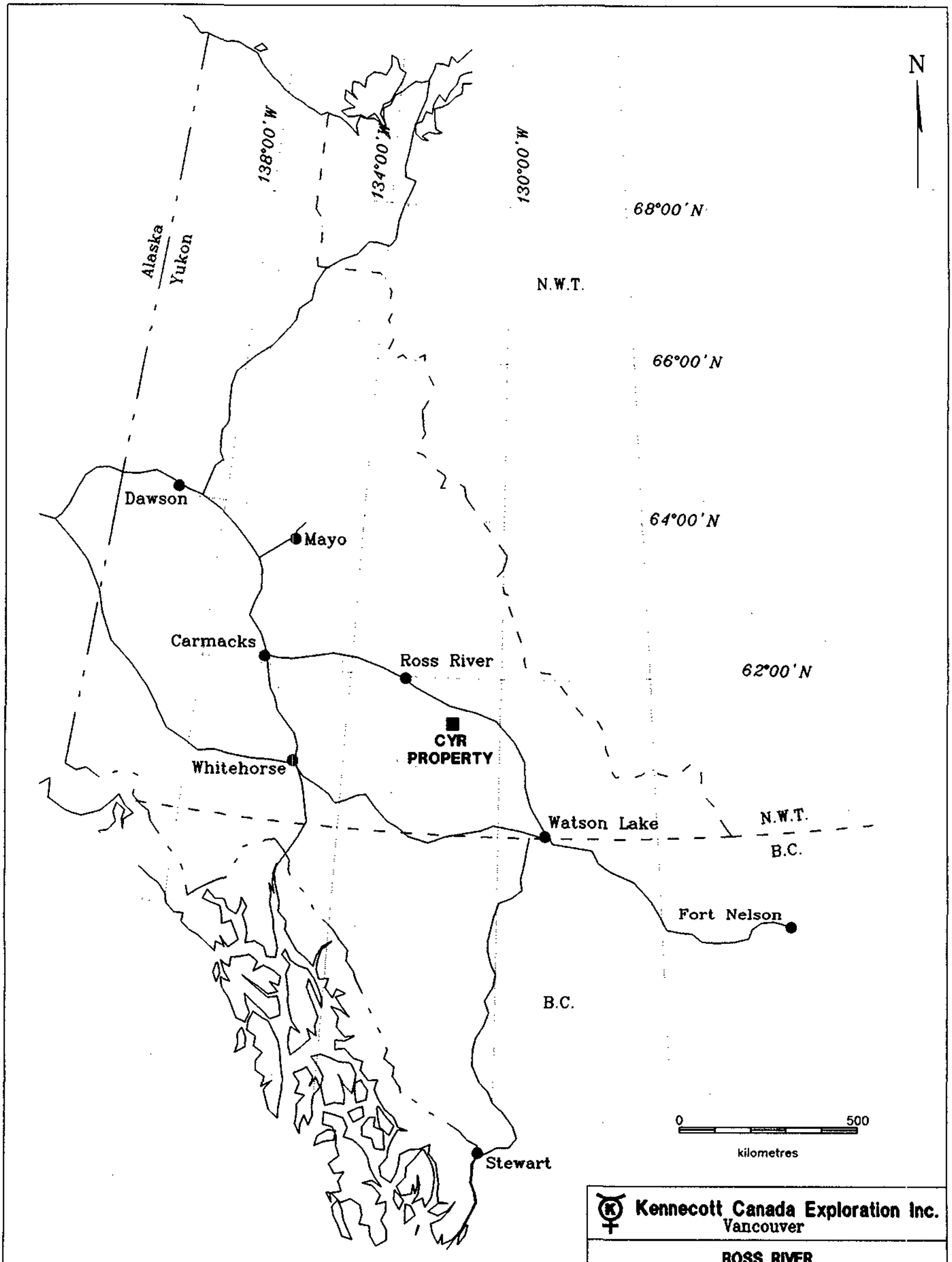
The Cyr 1-76 mineral claims, referred to here as the "Cyr property", were staked in early 1995 to cover the area up-ice of several small stratabound lead-zinc-silver showings and high grade zinc (>20%) bearing float boulders discovered on the adjacent Argus property. The Argus property is described by Archer (1973, 1979) and Hulstein (1994). Although there has been no work on the area reported for the area covered by the Cyr claims, previous work by Archer, Cathro & Associates (1981) Limited and others, included the construction of bulldozer tote roads on the Cyr property.

Fieldwork in 1996 consisted of a helicopter supported biogeochemical survey. The survey was initiated after Geological Survey of Canada geologist Colin Dunn gave a talk at a conference in Fairbanks, Alaska on the subject (Dunn and Scagel, 1989). Following research it was decided tree-top sampling from a helicopter could be applied to the Cyr property. Conifer tops (Black and White Spruce and Balsam Fir) were collected and analyzed for 32 elements by Chemex Laboratories. Fieldwork was carried out by geologist R. Zuran and senior geological assistant Toby Pierce. Trans North pilot John Witham of Ross River, Yukon Territory flew the Bell 206 Jet Ranger and operated the onboard GPS system. Roger Hulstein supervised the program. Other than John Witham all personnel were employees of Kennecott Canada Exploration Inc.

1.1 Location and Access

The Cyr property is located approximately 62km southeast of Ross River, Yukon Territory (Figure 1). The property is located at 61°32'N latitude and 131°31'W longitude within N.T.S. map-sheet 105G/11 & 12.

Access to the property in 1996 was by helicopter based out of Ross River. Ross River is a small town of about 400 people near the junctions of Highway 4, the Robert Campbell Highway, and Highway 6, the Canol Road. Ross River lies 360km by road from Whitehorse, Yukon which has daily jet service to southern Canada. A 25km winter road extends southeast from Mink Creek, on the Robert Campbell Road, to the Cyr and Argus properties. This road is normally too soft and wet for wheeled vehicles (ATV's excepted) and bulldozers during wet summers. During the 1993 Argus program a Honda ATV was used with great success on the rough and overgrown bulldozer roads.



Kennecott Canada Exploration Inc.
Vancouver

ROSS RIVER

CYR PROPERTY LOCATION

YUKON, CANADA

Date: 25/3/94	Author:		Figure 1
File: ARGLOC	PS: 1 = 1		

MJD

An airstrip, constructed in 1973, is located between the Hoole River and the southwest side of the Argus property. The airstrip was utilized in 1996 by Atna Resources Ltd. to mobilize a diamond drill, camp gear and supplies to the Argus property although during the summer months a swamp hinders access to the property.

1.2 Topography

The Cyr property lies within the Pelly Mountains northeast of the St. Cyr Range. The region was glaciated during the Pleistocene. The terrain consists of rounded hills and ridges with tree covered slopes and wide valleys. The Tintina Trench, a northwest trending valley in excess of 5km wide and underlain by the Tintina Fault, lies less than 5km south of the property. Elevations on the property range between 1070m and 1480m.

Outcrop, less than 1% exposure overall, is generally restricted to stream cuts and isolated exposures on the tote road that crosses the property. Scree and felsenmeer cover is restricted to the highest hills on the property. Thick glaciofluvial deposits cover the lower portions of the hillsides, generally below 1200-1250m elevation, and in the Northlake Creek valley.

Soils consist of glacial till, glaciofluvial deposits and organic-rich clay (black muck). Permafrost is common throughout the property with the exception of areas previously cleared by bulldozer and well drained areas with minimal tree cover.

Vegetation in the valley consists of alder, white and black spruce and balsam fir. Poplar grows on well drained south facing slopes. Ground cover in areas of thin tree cover consists of alpine plants, 'buckbrush', dwarf willow and moss.

The climate of central Yukon is characterized by low precipitation and a wide temperature range. Winters are cold and temperatures of -30 to -40 degrees Celsius are common. The property is generally snow-free from sometime in June to middle September.

1.3 Property

The Cyr property (Figure 2) consists of 76 two-post unsurveyed, contiguous mineral claims, staked under the Yukon Quartz Mining Act. The claims cover approximately 1539 hectares (3800 acres). Claim data are as shown below in Table 1.

Table 1 - List of Claims

Claim Name	Grant No	Expiry Date*
Cyr 1-76	YB56979-57054	February 12, 1998

* Subject to approval of 1996 assessment work filed with this report.

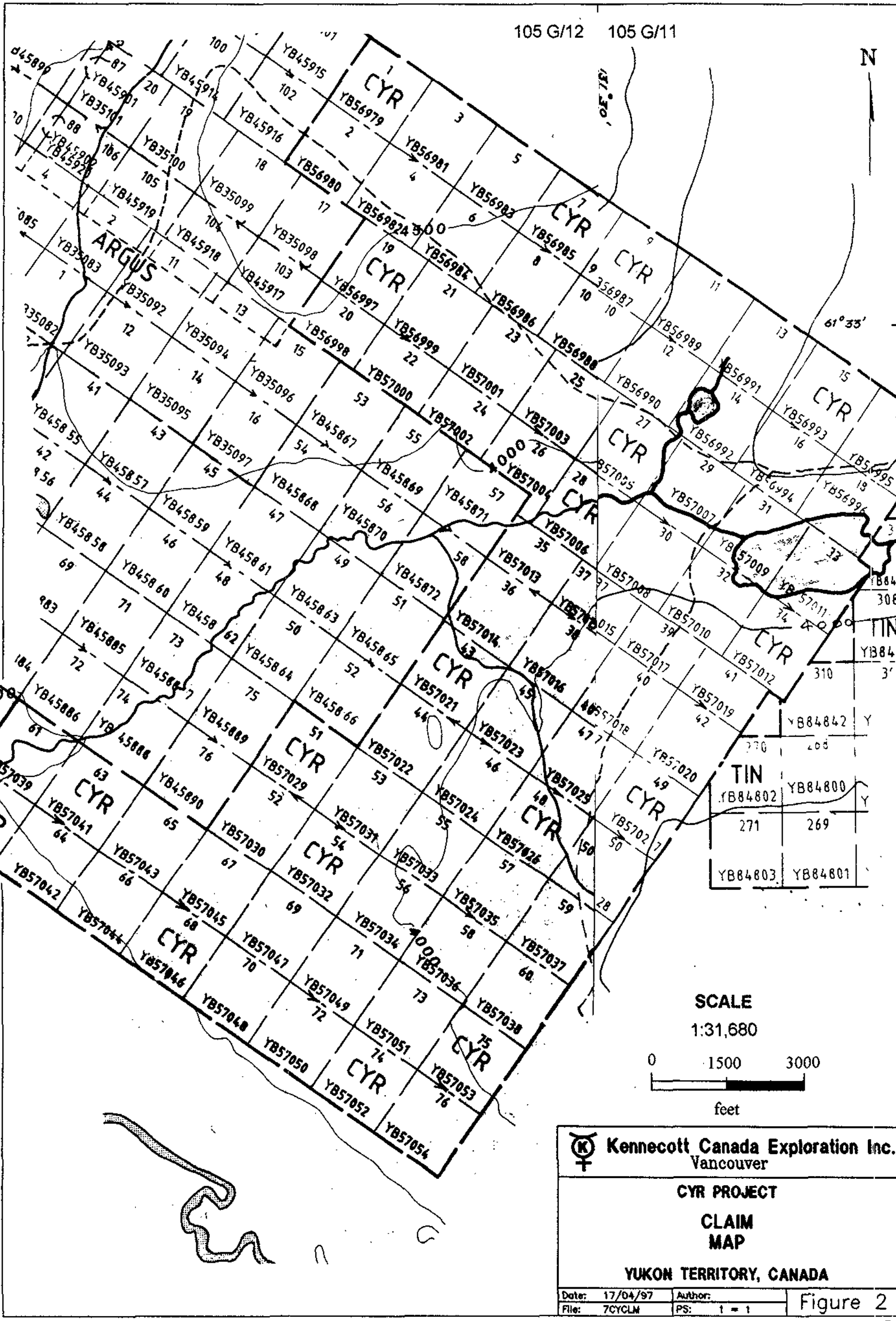
The claims are owned 100% by Kennecott Canada Exploration Inc., are registered as such with the Watson Lake Mining Recorder and are shown on claim sheets 105G-11 and 105G-12.

An accurate claim post survey has not been carried out to determine the Cyr-Argus property boundary.

1.4 History

The adjacent Argus property and part of the of the Cyr property was first staked in January 1966 as the Hoo claims by Northlake Mining Limited to cover possible sources of mineralized (lead-zinc) limestone float discovered by K.G. Sanders and J. Ryan of Newmont in 1955 (INAC, 1993). Northlake Mining Limited flew an airborne magnetic and electromagnetic survey, carried out grid soil sampling and ground electromagnetic surveys (Ronka and Turam). An electromagnetic anomaly located in the Tintina Trench, south of the Hoole River, was tested by four diamond drill holes (486m) with negative results.

The property was restaked in 1972 as the HoHo claims by South Yukon Joint Venture (Straus Exploration limited, Marietta Resources International Limited, Union Oil Co. of Canada Limited, Chevron Oil Company) (INAC, 1993). Archer, Cathro managed and carried out the exploration program on behalf of South Yukon Joint Venture. They explored the property with grid soil sampling and mapping in 1972 and bulldozer trenching and eight diamond drill holes (762m) in 1973. An airstrip and tote road to the property were also constructed in 1973. The above work located several zones of mineralized (lead-zinc) limestone and quartzite in glacial till and four occurrences of mineralized outcrop in bulldozer trenches. Float samples returned grades averaging in


105 G/12
105 G/11
N
61°33'
CYR
ARGUS
TIN
SCALE
1:31,680
0
1500
3000
feet
Kennecott Canada Exploration Inc.
Vancouver
CYR PROJECT
CLAIM
MAP
YUKON TERRITORY, CANADA
Date: 17/04/97
File: 7CYCLM
Author:
PS: 1 = 1
Figure 2

the order of 7% zinc, 0.4% lead and 0.4 opt silver. The best geochemical results from the trenching program returned 3.5% zinc over 3.65m while the best drill intersection returned 3.0% zinc and 0.2% lead over 3.96m from DDH-E1 (INAC, 1993). Following the 1973 program all participants except Chevron withdrew from the South Yukon Joint Venture.

In 1978 a bulldozer trenching program, managed by Archer, Cathro, tested suspected sources of mineralized float (Archer, 1979). The program was hampered by permafrost and the results were inconclusive. Following this the remaining HoHo claims were allowed to lapse.

The present day Argus property was restaked in 1992 by YGC Resources Ltd. and optioned by Kennecott Canada Inc. in Dec. 1992. Archer, Cathro managed the 1993 program of geological remapping and geochemical sampling of old bulldozer trenches, aerial photography, line cutting, geochemical soil sampling and mechánized overburden sampling over and up-ice of known mineral occurrences. The Argus property option was dropped by Kennecott in late 1993.

In early 1995 the Argus Property was optioned by Atna Resources Ltd. who carried out mapping and geochemical sampling in 1995. In 1996 Atna diamond drilled 9 holes on the property testing the A Zone area. Most holes intersected lead-zinc mineralization with hole ARG96-07 returning the best results at 3.26% zinc, 0.86% lead and 18.7g/t silver over 10.1m true width (George Cross Newsletter, Sept. 20, 1996). According to the Sept 5, 1996 George Cross Newsletter mineralization remains open along strike in both the southeast and northwest directions.

The Cyr property was staked in January 1995 by Kennecott Canada Inc. which carried out a short mapping and geochemical program in September 1995, described by Hulstein (1996). In 1996 Kennecott changed its name to Kennecott Canada Exploration Inc.

Cominco staked the Tin claims to the east of the property in June 1996.

2.0 SURFICIAL GEOLOGY

The surficial geology of the Hoole River area is shown on GSC Map 1794 (1:100,000 Scale) by L.E. Jackson (1993). It shows that the regional glacial trend, as defined by streamlined glacial bediforms, is to the northwest, parallel to the Tintina Trench. The CYR property is shown as being mostly underlain by glaciofluvial complex sediments, greater than 5m thick. A number of prominent meltwater channels are mapped south of Northlake Creek. A 2.5km long bedrock exposure, as mapped by Jackson along Northlake Creek downstream of the lower lake, does not exist. The creek has incised a channel in a glaciofluvial terrace and the present day stream bed and banks are composed of colluvium.

Jeff Bond, a geomorphologist with Kennecott Canada Inc., noted surficial geological features during the 1995 field program and examined government aerial photographs (lines A27866 and A27832) of the property in order to interpret the glacial history and surficial geology summarized below. His complete report is included as Appendix A in the 1995 Cyr report (Hulstein, 1996).

South of Northlake Creek, the Cyr property consists of a gently rolling moraine blanket (Mb) and glaciofluvial complex (Gx) cut by a series of northwest trending meltwater channels (Figure 4). This material was transported a considerable distance whereas soil samples 37927-37932, from a well developed moraine ridge, may represent local bedrock.

North of Northlake Creek the surficial geology consists of a moraine blanket-glaciofluvial (Mb-Gx) complex at the base of slope, grading into a veneer-moraine blanket, hummocky moraine, and a thin moraine veneer at the summit (Figure 4). The moraine blanket-glaciofluvial complex at the base of slope contains a blanket of stagnation moraine crosscut by three east draining glaciofluvial channels that should contain semi-proximal to proximal sediments. Further up slope from Northlake Creek is a moraine blanket (Mb) that grades into a moraine veneer (Mv).

During the Late Wisconsinan, ice flow across the Cyr property was from east to west in Northlake Creek valley, until it merged with Tintina Trench ice and was redirected to the northwest, depositing the basal till found on the Argus property. Pebble orientation studies on till deposits, in the area of the A Zone, yield an average azimuth of 300° to 310° (Hulstein, 1994). This agrees with the regional azimuth of glacial bediforms measured by Jackson (1993). The east to west ice direction in Northlake Creek valley indicates that float boulders and soil (till) anomalies found on the Argus property may originate in part from the Cyr property.

3.0 GEOLOGY

3.1 Regional Geology

The property lies within the Yukon-Tanana Terrane (YTT) (Figure 3) which is thought to be correlative, at least in part, to the Nasina Assemblage found in the Dawson area (Hunt, 1997). Wheeler and McFeely (1991) assign large portions of the YTT to the Nisutlin allochthon. Yukon-Tanana rocks cover large portions of Yukon, Alaska and British Columbia and similar, coeval, possibly correlative, rocks are found in the Selwyn Basin and the Pelly-Cassiar Platform (Hunt, 1997; Wheeler and McFeely, 1991). The Yukon-Tanana Terrane, flanking the Selwyn Basin on the outboard or southwest side, is composed of an allochthonous sequence of clastic sedimentary, volcanic and igneous protoliths that represent a displaced volcanic arc. With the recent discovery by Cominco of the Kudz Ze Kayah deposit and Atna Resources discovery of the Wolverine deposit, geological mapping, studies and exploration of the YTT has increased and the regional geological framework is expected to be further defined in the near future. The YTT is bound on the southwest by the Tintina Fault, a major fault with over 450km of dextral transcurrent movement (Tempelman-Kluit, 1981). The YTT is bounded to the northeast by the Finlayson Fault Zone. The YTT is underlain by a thrust fault placing it over Selwyn Basin clastics deposited on the continental shelf of ancestral North America. Regional geology has been mapped and compiled at 1:250,000 scale by Tempelman-Kluit (1977).

The northwest trending Tintina Fault lies within five kilometres of the southwestern property boundary. The structural trend of the region is parallel to the fault. North of the fault, northeasterly directed thrust faulting predominates.

In the Finlayson Lake area, Mortenson and Jilson (in Hunt, 1997) divided the Yukon-Tanana Terrane into three units, Lower, Middle and Upper, of the Layered Metamorphic Complex. To quote from Hunt (1997);

> The Lower Unit consists of pre Late Devonian micaceous quartzite and minor marble (equivalent, at least in part to the Nisling Assemblage; Mortenson, 1992). The Middle Unit comprises late Devonian to mid Mississippian interlayered mafic and minor felsic metavolcanic rocks, carbonaceous metasediments and "quartz eye" grits (equivalent, at least in part to the Nasina Assemblage), this unit hosts the massive sulphide mineralization at Kudz Ze Kayah and Wolverine. The Upper Unit contains Early Pennsylvanian to Early massive carbonate and quartzite.

The Middle Unit hosts the Kudz Ze Kayah and Wolverine deposits (Hunt, 1997).

Trench mapping on the Argus property located exposures of light tan, gritty, micaceous quartzite-phyllite with distinctive blue quartz clasts. The presence of blue quartz clasts in the phyllitic quartzite places these rocks within the Middle Unit.

136°00'
132°00'
130°00'
65°00'
64°00'
63°00'
62°00'
N
Dawson
BREWERY CREEK
TOMBSTONE
MARG
Elsa
SCHEELITE DOME
Mayo
KENO HILL ASSEMBLAGE
TINTINA FAULT
LANSING
MACMILLAN PASS
TOM/JASON
KAL
DROMEDARY
LADY DI
HACHEY
CLEAR LAKE
HOWARDS PASS
SELWYN BASIN
Faro
CHAPLIN
Ross River
HARRIS
YUKON–TANANA TERRANE
FIN
FETISH
GYP
KUDZ ZE KAYAH
PACK
FIRE
CYR PROPERTY
Watson Lake
SILURIAN–DEVONIAN BASIN FACIES (Road River Group, Earn Group)
CAMBRIAN–PERMIAN METASEDIMENTARY AND METAVOLCANIC ROCKS (Road River Group, Earn Group, Nisutlin Assemblage and Klondike Schist)
DEVONIAN–MISSISSIPPIAN METAGRANITIC ROCKS (Pelly Gneiss)
KENNECOTT CANADA PROPERTIES IN RED
GOLD OCCURRENCE
VMS EXPLORATION TARGET
VMS OCCURRENCE
TRANSITIONAL EXPLORATION TARGET
TRANSITIONAL OCCURRENCE
SEDEX OCCURRENCE
SEDEX EXPLORATON TARGET
scale 1:40,000
0
200
kilometres
Kennecott Canada Inc.
Vancouver
ROSS RIVER
CYR PROPERTY REGIONAL GEOLOGY
YUKON, CANADA
Date: 05/02/96
Author: RWH
File: ROSRGEO
PS: 1 = 40
Figure 3
MJD

Approximately 15km east and 25km southeast of the property lie plutons of Cretaceous quartz monzonite. Also, <5km southeast, found as a klippe on the ridge and hill, are Carboniferous and Permian (and possibly older) mafic, ultramafic and associated submarine clastic rocks of the Anvil Campbell allochthon (Tempelman-Kluit, 1977). Boulders of these mafic, ultramafic and granitoid rocks, were noted throughout the property in glacial till.

3.2 Property Geology

Property geology is shown on the compilation map (Figure 4). Outcrop is sparse on the Cyr property. Exposures are limited to small outcrops on roads and in incised creeks on the southeast side of the property. The outcrops along the incised creek on the southeast side of the property have not been mapped. The ridge southeast of the property consists largely of exposures of quartz-chlorite phyllite.

Northlake Creek valley is believed to be underlain by a major fault zone (Tempelman-Kluit, 1977) that juxtaposes differing lithologies. At present neither the quartzites that host the known Pb-Zn-Ag mineralization, the limestone - marble units, nor the distinctive quartzeye grits found on the Argus property, have been found southeast of the suspected fault.

3.3 Structure

Generally, lithologies on the Argus property trend north to northwest (Hulstein, 1993), the same is presumed on the Cyr property. This trend is parallel to the regional trend and the Tintina Fault. Definite bedding structures are rare. Foliation is assumed to be parallel to bedding as observed by lithological contacts exposed in trenches. The foliation attitude is variable but generally dips shallowly to the south. Nearly horizontal isoclinal folding is suspected based on known foliation, bedding and minor folds observed in a metre sized boulder of interbedded quartzite and limestone found in Trench-A5.

The fault under Northlake Creek is indicated by GSC aeromagnetics and inferred by Tempelman-Kluit (1977) to be a steeply dipping normal fault. It divides rocks of the Middle Unit to the north from light green and tan quartzose phyllites found south of the fault.

Numerous small faults are suspected on the Argus property due to its proximity to the Tintina Fault. One such fault was observed in Trench E2 juxtaposing limestone and carbonate chlorite phyllite. Numerous gently dipping fault zones, parallel to the foliation, were intersected in the 1973 diamond drilling program (Archer, 1973).

4.0 MINERALIZATION

4.1 Regional Setting

The mineral potential of the Yukon Tanana Terrane has been realized with the discovery of the Kudz Ze Kayah and Wolverine deposits near Finlayson Lake (Figure 3). These are polymetallic VMS deposits hosted by felsic tuffs and sills or flows interlayered with minor mafic sills or flows and mafic rocks (Schultze, 1996), the Middle Unit of the Layered metamorphic Sequence referred to above.

Sedex mineralization in the Dawson City, Yukon area has recently been explored by Archer, Cathro & Associates (1981) Limited and Kennecott Canada Inc. This work lead to the realization that potential for further sedex discoveries could be made in similar rocks of the Nisutlin allochthon, part of the Yukon-Tanana Terrane. To date at least seven stratiform base metal occurrences, of which the Cyr property is one, have been found in this package of rocks in the Hoole River-North Lakes area. They are hosted by graphitic, sericitic and/or chloritic phyllites and schists, a relatively restricted Upper Devonian stratigraphic assemblage within the thrust fault-bounded Nisutlin allochthon (Carne, 1992).

4.2 Property Mineralization

The Cyr property is a sedimentary-exhalative (sedex) massive sulphide lead-zinc-silver exploration target. Exploration work in 1995 located a piece of mineralized limonite-barite float in the northwest corner of the Cyr property. The source of this float is possibly near the A Zone on the Argus property, or more towards the B Zone and the Cyr property. A more likely scenario is a number of mineralized occurrences, which may or may not be the same horizon, giving rise to the multiple soil geochemical and rock float anomalies.

Mineralization on the Argus property located near the northwest corner of the Cyr property is hosted in or near limestone. Limestone occurs as lenses within phyllites and probably makes up less than 10% of the stratigraphic section (Archer, 1973). The most significant occurrence of mineralization is banded and disseminated sphalerite in thinly banded grey quartzite horizons within limestone found at the A Zone. Outcrop, exposed in trenches on the B Zone, 500m to the northeast of the A Zone, consists of tan weathering, grey to brown massive quartzite which grades into quartz-sericite phyllitic schist. The phyllitic schist is in fault contact (?) with a black to limonitic weathering, fissile phyllite. Angular blocks, possibly subcrop, of clean white quartzite, locally rusty weathering, vuggy and coated by hydrozincite are overlain by limestone. This sequence is similar to the mineralization reported at the A Zone and implies widespread mineralization. It is quite conceivable that this same, or similar, mineralization, is found on the northwest corner of the Cyr property.

Mineralization on the Argus property has been remobilized, possibly by Cretaceous and or Tertiary tectonic events. Presumably the same processes apply to the Cyr property and the crystalline barite-sphalerite float found in the outwash gravels (sample 37643) may represent remobilized mineralization. A sample (37642) of clean crystalline barite float-subcrop was collected on the road near the northwest property boundary in the vicinity of the B Zone.

5.0 1996 BIOGEOCHEMISTRY SURVEY

5.1 Sample Collection

A total of 84 conifer treetop biogeochemical samples were collected in 1996. Sample locations are shown on Figure 4. The object of the survey was to explore the area up ice of the of the A and B Zones found on the Argus property. Sample lines were spaced 200m and trended northwest, approximately parallel to the ice direction. Samples were collected every 200m on the lines. Three lines were established over Pb-Zn soil anomalies found in 1995 in the northwest corner of the property and three lines tested the central portion of the property up-ice of the 'A' Zone found on the Argus property.

The survey was carried out using a Bell 206 Jet Ranger helicopter with the starboard back door and back seat removed (see pictures in Appendix C). A crew of three were employed;

1) the pilot flew and navigated the machine using an on board GPS system.

2) the sampler, seated directly behind the pilot, wore a climbing harness secured to the helicopter and sat on the helicopter floor with his feet resting outside on the skid. The helicopter would hover adjacent to a selected tree, the sampler would secure it by hand and snip off approximately the top 50cm with anvil type garden shears. The sample was then handed back to the recorder.

3) the recorder was seated in the back seat on the port side of the helicopter. He recorded the sample information (tree species and character), assigned a sample number as well as the GPS location and placed the sample in a cloth (11"X17") bag. The sample was then placed in a larger receiving bag (plastic garden size garbage bag) in the front passenger seat that was duct taped to the central post in the cabin to prevent the bag from blowing out. After approximately 18 samples the bag would be full and the helicopter would land at a central cache site.

Good head phone communication between the three personnel is essential to a smooth running survey.

Three species of conifers were collected. Species names were assigned based on the following characteristics.

Black Spruce (*Picea mariana*); has coarse black 'hair' around twigs (on older trees), and the tree generally has a bent scrawny profile.

White Spruce (*Picea glauca*); the most difficult to identify; generally has a more uniform cone shaped profile but holds many of the same characteristics of the black spruce.

<u>Balsam Fir</u> (*Abies balsamea*); has tight small (4-5cm long) cones at the top, when cones were absent, spires at the top were the best way to identify this species.

After sample collection the samples were further sniped down to reduce bulk and the species confirmed, the tree rings were counted and the maximum diameter of the twig was measured.

The 84 samples were collected in two helicopter flying hours on 6 flight lines each averaging 3km long. Two samples were collected as duplicates.

5.2 Analytical Results

Results for barium, mercury and zinc are shown on Figures 5 to 7. Analytical reports are presented in Appendix A. A merged geochemical database and sample statistics are presented in Appendix B. Anomalous values, taken to be >90th percentile, are shown in Table 3 below.

All samples were submitted to Chemex Laboratories of North Vancouver, B.C. The samples were dried, had needles and cones removed, then macerated (to -20mesh) in a Wiley mill and blended. A 1.0 gram sample was wet ashed with concentrated nitric and perchloric acids for approximately three hours. The acid solution was diluted to 25ml with demineralized water, mixed and analyzed for 32 elements using an inductively coupled plasma emission spectrometer after calibration with proper standards. The analytical results are corrected for spectral inter-element interferences.

All samples were analyzed for mercury by atomic absorption spectroscopy (AAS) with a lower detection limit of 10ppb. The highest mercury value returned was 15ppb.

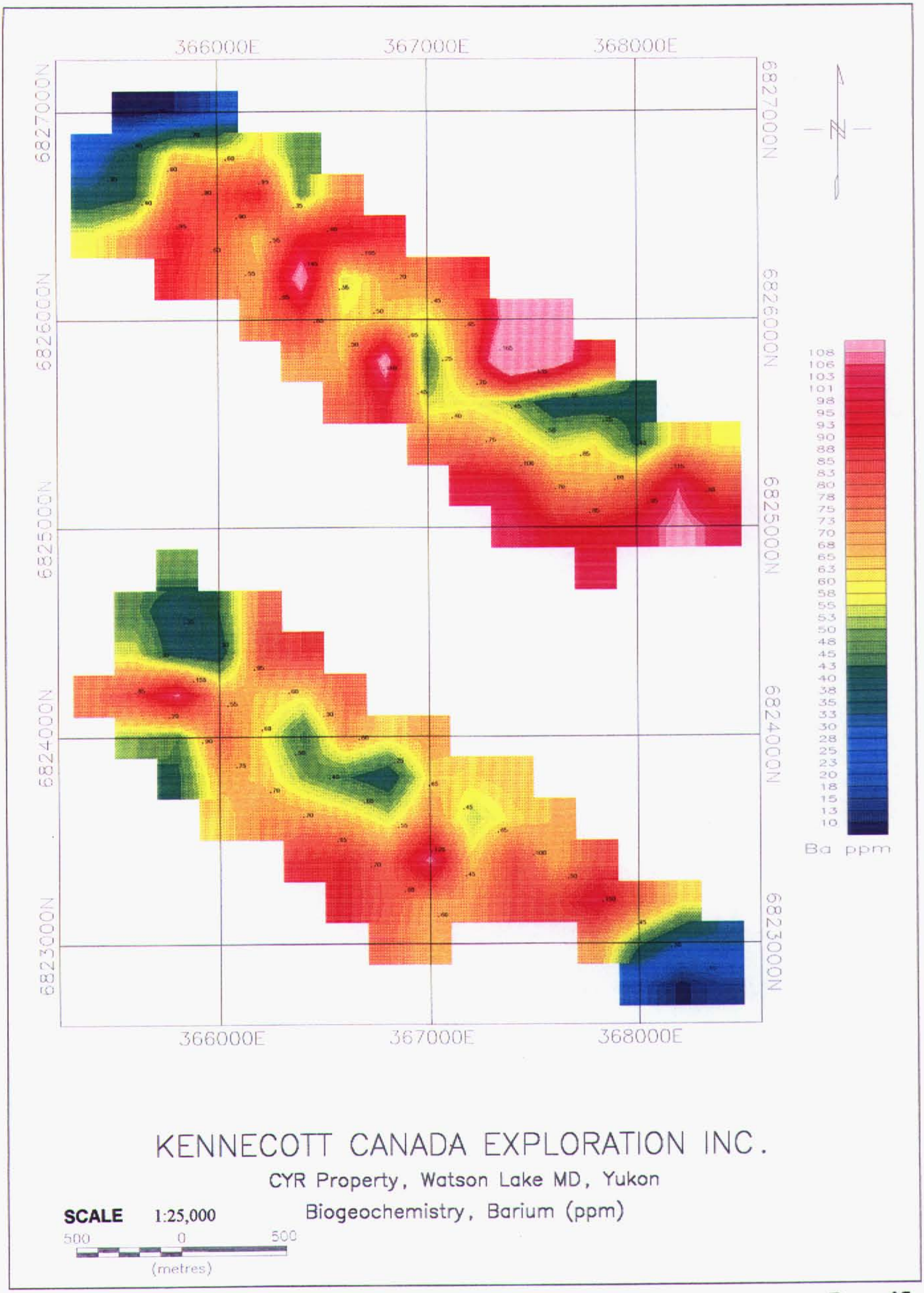
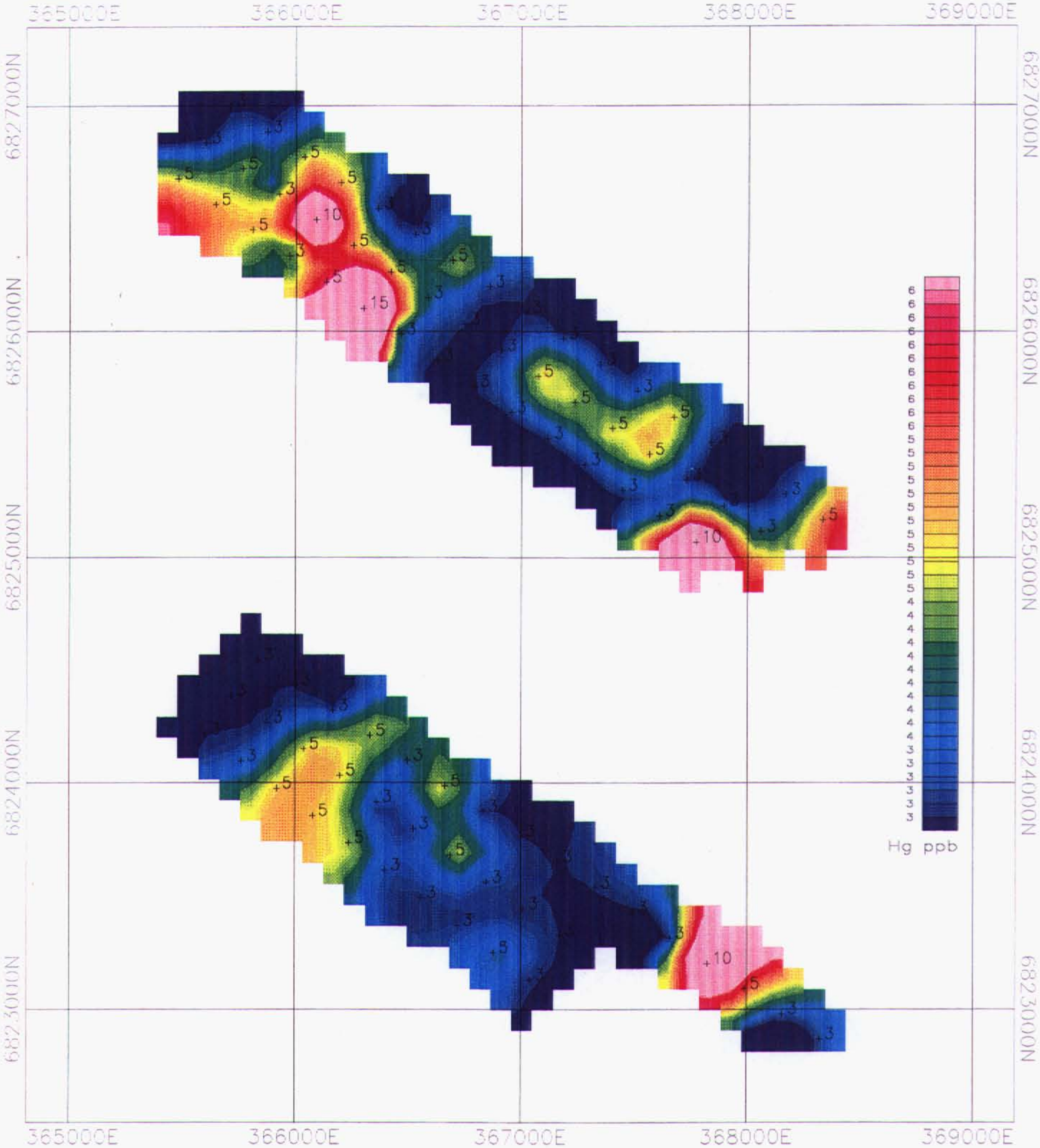


Figure 5. Barium (ppm)



KENNECOTT CANADA EXPLORATION INC.

SCALE 1:25,000

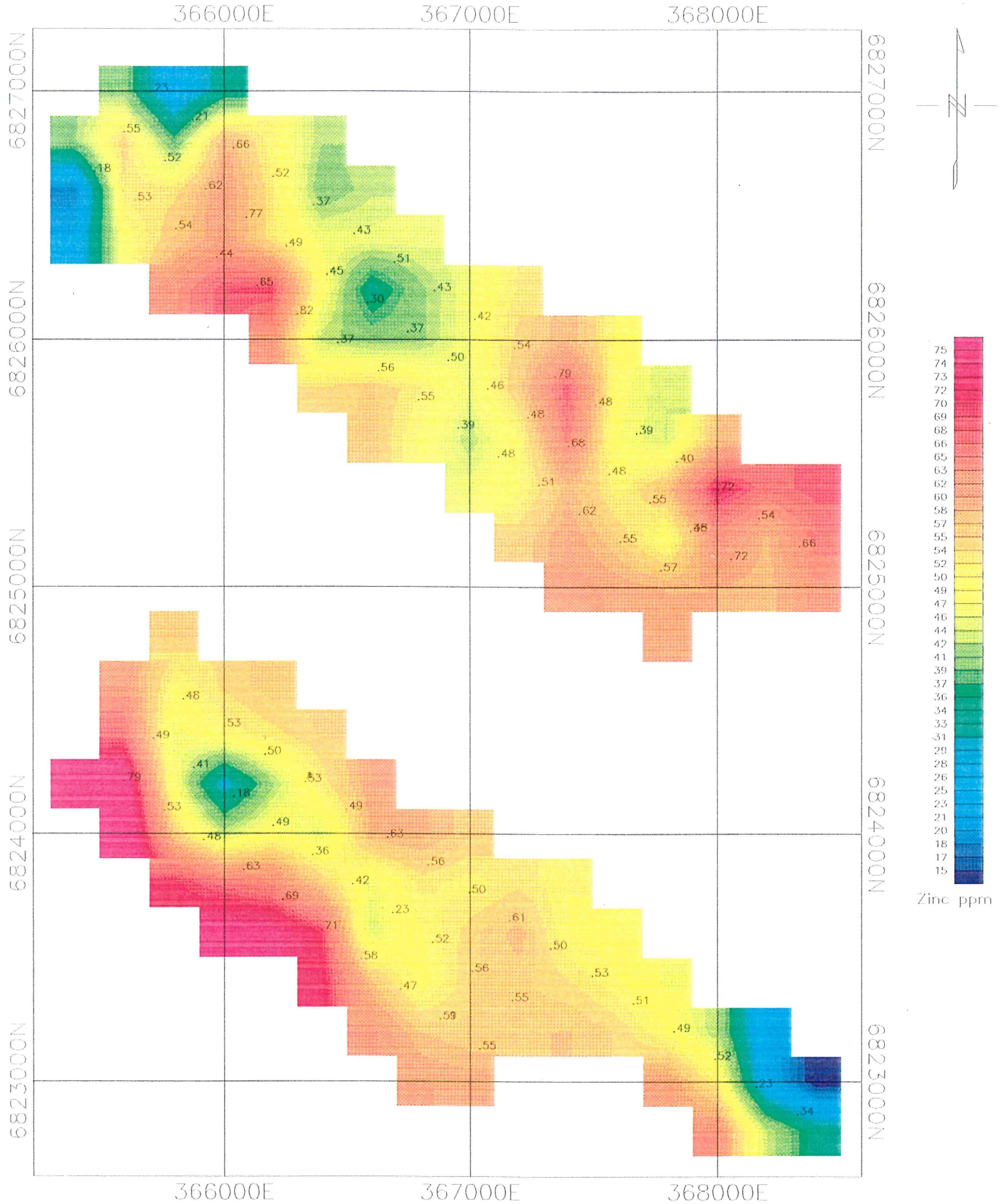
250 0 250 500 750

(metres)

CYR Property, Watson Lake MD, Yukon

Biogeochemistry, Mercury (ppb)

Figure 6. Mercury (ppb)



KENNECOTT CANADA EXPLORATION INC.

CYR Property, Watson Lake MD, Yukon

Biogeochemistry, Zinc (ppm)

SCALE 1:25,000

500 0 500

(metres)

Figure 7. Zinc (ppm)

Table 3. Biogeochemistry Anomaly Threshold Values

Element	>90th Percentile
Barium (ppm)	100
Calcium (ppm)	4800
Copper (ppm)	7
Iron (%)	150
Lead (ppm)	3
Magnesium (ppm)	1500
Manganese (ppm)	240
Mercury (ppb)	10
Nickel (ppm)	8
Phosphorous (ppm)	1625
Potassium (ppm)	6900
Zinc (ppm)	68

Biogeochemical samples collected from the northwest corner of the property returned coincident anomalous values (90th percentile) for Cu, Hg, Zn and near anomalous values for Ba. This is the same area that returned anomalous Zn results from soil and rock samples in 1995 and near the 'B' zone (Zn anomaly) on the adjacent Argus property.

Elsewhere on the property a number of samples returned anomalous values for Ba, Cu, Hg and Zn. In particular an anomalous values on the east end of the three northern lines and on the southernmost line stand out. These anomalies remain unexplained. In all probability the varied nature of the Quaternary cover and the variable soil development (poor to none) accounts for the variation in returned sample values.

Variation between sample species was also noted. Balsam Fir consistently returned low values for Zn (between 18-23ppm). The two duplicate samples (#42104 collected at site #42051 and #42105 collected at 42102) returned similar values within a 5-20% range for the elements of interest.

Analytical results from the Cyr property are an order of magnitude, or more, lower (zinc in particular) compared to those reported by Hunt et al. (1997) on a similar survey in the Yukon. Major differences between the two surveys were, aside from location, the time of year, branches versus treetops, sample preparation method and analysis. It is in the sample preparation method, in particular the ashing of the sample employed by Hunt et al. where the variation stems from. Ashing (incineration) apparently tends to preconcentrate metals prior to analysis (Hunt et al., 1997; and Hall, 1995) compared to the wet ashing method employed on the samples from the Cyr property where the sample is not preconcentrated.

5.3 1995 Soil Geochemistry

The 1995 hand auger soil sample lines south of Northlake Creek were perpendicular to the regional glacial direction. The two soil lines, north of Northlake Creek, crossed the easterly directed meltwater channels and tested the glacial till southeast of the B Zone and the stratigraphy that may extend northeast from the A Zone. Two lines oriented NE-SW, approximately perpendicular to the ice direction, located south of Northlake Creek tested the up ice potential of the property.

Soil samples were collected every 50m. Lines were flagged with orange surveyors tape and sample sites marked with blue surveyors tape. Samples were collected below the organic and ash horizons, generally at a depth of 0.4m. Permafrost and excessively thick organics locally hindered, and sometimes prevented, sample collection. The sampling medium consisted primarily of clay rich till, sandy glacial till and pebbly outwash gravels.

North of Northlake Creek a number of anomalous zinc values were returned. The most significant are on the north end of the western line. Five samples returned between 194ppm and 628ppm zinc, collected from colluvium and till, and may represent the extension of mineralization found at the nearby A and B Zone on the Argus property. This same area returned anomalous Cu, Hg and Zn and near anomalous Ba values from the 1996 biogeochemistry survey.

Zinc anomalies (four samples between 152ppm-194ppm) were returned from the southeast ends of both soil lines where the soil lines cross glaciofluvial sediments. These glaciofluvial sediments originated in the west, possibly from the area of the A Zone. Corresponding lead values for these samples are elevated, compared to adjacent samples, but are not anomalous. This same area returned a number of scattered biogeochemistry (Ba,Cu,Hg, Zn) anomalies.

Three soil samples located south of Northlake Creek returned between 144-156ppm zinc. While these samples are only anomalous, they are over twice the values of adjacent samples and were picked up on both soil lines, consistent with the northwest directed glacial movement. Corresponding lead values for these same samples are elevated, compared to adjacent samples, but are not anomalous. The three biogeochemistry lines located south of Northlake Creek returned a scattering of anomalous Ba,Cu,Hg and Zn values.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Cyr property is a massive sulphide sedex and/or volcanic massive sulphide lead-zinc-silver-barite target. The 1996 biogeochemistry survey successfully duplicated the 1995 zinc in soil anomaly found in the northwest corner of the property. This anomaly may be an extension of the nearby B Zone or the A Zone found on the adjacent Argus property. Additional unexplained biogeochemistry anomalies were returned from elsewhere on the property. They may reflect nearby bed rock mineralization or the metal content of the Quaternary alluvial cover.

The helicopter treetop sampling biogeochemical survey proved to be safe, economical and timely. It is recommended that further sampling be carried out to close off the anomalous (Cu,Hg and Zn) samples returned from the northwest corner of the property. Additional sampling is also required to determine if the scattered anomalous values returned from the area south of Northlake Creek are meaningful. Ideally an expanded survey would extend onto the adjacent Argus property to establish anomalous values over known mineralization. Any new biogeochemical survey on the property should try both the 'incineration' and 'wet ashing' sample preparation techniques for comparative purposes. Considering its cost, mercury analysis by specific technique was of limited usefulness given the low levels of mercury detected.

Based on the results of exploration carried out on the Cyr property to date further work is warranted. In addition to the recommended expanded biogeochemistry survey additional hand auger soil sampling should be completed with emphasis paid to closing off existing soil anomalies. This should be carried out in conjunction with geological mapping and further surficial studies. A claim post survey of both the Cyr and Argus claim posts is required in order to determine the Cyr property boundary accurately. Any further work such as trenching, diamond drilling, geophysics, etc. is contingent on results of the above work.

7.0 REFERENCES

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8.0 STATEMENT OF QUALIFICATIONS

I, Roger W. Hulstein, with business address:

Kennecott Canada Exploration Inc.
354-200 Granville Street
Vancouver, B.C.
V6C 1S4

and residential address in Whitehorse, Yukon Territory, do hereby certify that:

1. I am a geologist with Kennecott Canada Exploration Inc.

2. I am a graduate of Saint Mary's University, Halifax, with a degree in geology (B.Sc., 1981) and have been involved in geology and mineral exploration continuously since 1978.

3. I am a fellow of the Geological Association of Canada (F3572).

4. I am registered as a professional geoscientist (No. 19127) with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

5. I am the author of this report on the Cyr property, Watson Lake Mining District, Yukon, which is based on my personal examination of the ground during August and September, 1995 and on referenced sources.

R. W. HULSTEIN
GEOSCIENTIST

April 18, 1997 Roger Hulstein, B.C., FGAC, P.Geo.

APPENDIX A

ANALYTICAL RESULTS

CHEMEX LABS LTD.
212 BROOKSBANK AVENUE
NORTH VANCOUVER, BC
V7J 2C1

TELEPHONE: (604) 984-0221
FAX:(604) 984-0218

FAX COVER SHEET

COMPANY NAME:	KENNECOTT
CONTACT NAME:	ROGER HULSTEIN
FAX NUMBER:	1-403-633-6413

SENDER:	RON MINIONS
DESCRIPTION:	

HERE ARE THE PREP & ANALYTICAL METHODS

Ron

Number of pages (including this page):	3
Date Sent:	APRIL 4/97

If there are any problems with this transmission, please call our office immediately at (604)984-0221.

Chemex charges clients $0.50 per page of analytical results faxed within North America and $2.00 per page faxed outside North America (billed monthly).

Geochemical Procedure - 32-Element Vegetation and Humus Samples Package

Nitric-Perchloric Acid Digestion
Inductively-Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)

A prepared sample (1.0g) is wet ashed with concentrated nitric and perchloric acids approximately three hours. The acid solution is diluted to 25ml with demineralized water, mixed and analyzed using an inductively coupled plasma plasma emission spectrometer after calibration with proper standards. The analytical results are corrected for spectral inter-element interferences.

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
249		Digestion			
1018	*	Aluminum	Al	50 ppm	100,000 ppm
1017		Silver	Ag	0.1 ppm	200 ppm
1019		Arsenic	As	2 ppm	10,000 ppm
1020	*	Barium	Ba	5 ppm	10,000 ppm
1021	*	Beryllium	Be	0.2 ppm	100.0 ppm
1022		Bismuth	Bi	1 ppm	10,000 ppm
1023	*	Calcium	Ca	50 ppm	100,000 ppm
1024		Cadmium	Cd	0.2 ppm	100.0 ppm
1025		Cobalt	Co	0.5 ppm	10,000 ppm
1026	*	Chromium	Cr	0.5 ppm	10,000 ppm
1027		Copper	Cu	0.5 ppm	10,000 ppm
1028		Iron	Fe	50 ppm	100,000 ppm
1029	*	Gallium	Ga	5 ppm	10,000 ppm
1031	*	Potassium	K	50 ppm	100,000 ppm
1032	*	Lanthanum	La	5 ppm	10,000 ppm
1033	*	Magnesium	Mg	50 ppm	100,000 ppm
1034		Manganese	Mn	0.5 ppm	10,000 ppm
1035		Molybdenum	Mo	0.5 ppm	10,000 ppm
1036	*	Sodium	Na	50 ppm	50,000 ppm
1037		Nickel	Ni	0.5 ppm	10,000 ppm
1038		Phosphorus	P	5 ppm	10,000 ppm
1039		Lead	Pb	0.5 ppm	10,000 ppm
1047		Antimony	Sb	2 ppm	10,000 ppm
1048	*	Scandium	Sc	2 ppm	10,000 ppm
1049	*	Strontium	Sr	0.5 ppm	10,000 ppm
1050	*	Titanium	Ti	50 ppm	50,000 ppm
1051	*	Thallium	Tl	5 ppm	10,000 ppm
1052		Uranium	U	5 ppm	10,000 ppm
1053		Vanadium	V	0.5 ppm	10,000 ppm
1054	*	Tungsten	W	2 ppm	10,000 ppm
1055		Zinc	Zn	0.5 ppm	10,000 ppm
1030		Mercury	Hg	1 ppm	10,000 ppm

** Elements for which the digestion is possibly incomplete.*

Sample Prep - Vegetation: Prep

The sample is dried at 60 degrees C (washed and then dried if requested) and milled to approximately 20 mesh in a Wiley mill.

Chemex Code	Element	Symbol	Detection Limit	Upper Limit
210	Vegetation		N/A	N/A

CHEMEX FAX MESSAGE

Chemex Labs Ltd.
212 Brooksbank Avenue
North Vancouver, British Columbia
Canada, V7J 2C1

FAX: (604) 984-0218
Phone: (604) 984-0221

TO: Roger Hulstein
Kennecott Canada, Inc.

FAX #: 669-5255

FROM: Maryann Anderson

DATE: April 15, 1997

RE: Mercury Procedure

Geochemical Procedure - Mercury

Nitric Aqua Regia Digestion
Atomic Absorption Spectroscopy (AAS)

A prepared sample (1.00g) is digested with concentrated nitric-aqua regia acid for two hours. The digested solution is diluted to volume and homogenized. A portion of the sample is reacted with stannous chloride to reduce the mercury. The resulting mercury vapor is then measured by cold vapour atomic absorption spectroscopy.

Chemex Code	Element	Symbol	Detection Limit	Upper Limit
20	Mercury	Hg	10 ppb	0.01%

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

To: KENNECOTT CANADA INC.

3169 3RD AVE.
WHITEHORSE, YT
Y1A 1G4

A9619118

Comments: ATTN: RICK ZURAN CC: ROGER HULSTEIN

CERTIFICATE A9619118

(NRB) - KENNECOTT CANADA INC.

Project: 30 4163
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
210	86	Vegetation: Dry, mill -20 mesh
222	86	Drying charge (0-3 Kg)
249	86	Vegetation digestion
* 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
1018	86	Al ppm: Vegetation Samples	ICP-AES	50	100000
1047	86	Sb ppm: Vegetation Samples	ICP-AES	2	10000
1019	86	As ppm: Vegetation Samples	ICP-AES	2	10000
1020	86	Ba ppm: Vegetation Samples	ICP-AES	5	10000
1021	86	Be ppm: Vegetation Samples	ICP-AES	0.20	100
1022	86	Bi ppm: Vegetation Samples	ICP-AES	1.00	100
1024	86	Cd ppm: Vegetation Samples	ICP-AES	0.20	100
1023	86	Ca ppm: Vegetaion Samples	ICP-AES	50	100000
1026	86	Cr ppm: Vegetation Samples	ICP-AES	0.5	10000
1025	86	Co ppm: Vegetation Samples	ICP-AES	0.50	10000
1027	86	Cu ppm: Vegetation Samples	ICP-AES	0.50	10000
1029	86	Ga ppm: Vegetation Samples	ICP-AES	5	10000
1028	86	Fe ppm: Vegetation Samples	ICP-AES	50	100000
1032	86	La ppm: Vegetation Samples	ICP-AES	5	10000
1039	86	Pb ppm: Vegetation Samples	ICP-AES	0.50	10000
1033	86	Mg ppm: Vegetation Samples	ICP-AES	50	100000
1034	86	Mn ppm; Vegetation Samples	ICP-AES	0.50	10000
1030	86	Hg ppm: Vegetation Samples	ICP-AES	1	10000
1035	86	Mo ppm: Vegetation Samples	ICP-AES	0.50	10000
1037	86	Ni ppm: Vegetation Samples	ICP-AES	0.50	10000
1038	86	P ppm: Vegetation Samples	ICP-AES	5	10000
1031	86	K ppm: Vegetation Samples	ICP-AES	50	100000
1048	86	Sc ppm: Vegetation Samples	ICP-AES	2	10000
1017	86	Ag ppm: vegetation samples	ICP-AES	0.10	200
1036	86	Na ppm: Vegetation Samples	ICP-AES	50	50000
1049	86	Sr ppm: Vegetation Samples	ICP-AES	0.50	10000
1051	86	Tl ppm: Vegetation Samples	ICP-AES	5	10000
1050	86	Ti ppm: Vegetation Samples	ICP-AES	50	50000
1054	86	W ppm: Vegetataion Samples	ICP-AES	2	10000
1052	86	U ppm: Vegetation Samples	ICP-AES	5	10000
1053	86	V ppm: Vegetation Samples	ICP-AES	0.50	10000
1055	86	Zn ppm: Vegetation samples	ICP-AES	0.50	10000
20	86	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: KENNECOTT CANADA INC.

3169 3RD AVE.
WHITEHORSE, YT
Y1A 1G4

Project : 30 4163
Comments: ATTN: RICK ZURAN CC: ROGER HULSTEIN

Certificate Date: 11-JUN-96
Invoice No. :I9619118
P.O. Number :
Account :NRB

CERTIFICATE OF ANALYSIS A9619118

SAMPLE	PREP CODE		Al ppm	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Ga ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm
VR42020A	210	222	150	< 2	< 2	10	< 0.20	< 1.00	< 0.20	1250	< 0.5	< 0.50	4.0	< 5	< 50	< 5	< 0.50	1000	420	< 1	< 0.50
VR42021A	210	222	< 50	< 2	< 2	70	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	3.0	< 5	< 50	< 5	< 0.50	650	200	< 1	< 0.50
VR42022A	210	222	< 50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	4600	0.5	< 0.50	5.5	< 5	< 50	< 5	0.50	1400	54	< 1	< 0.50
VR42023A	210	222	50	< 2	< 2	95	< 0.20	< 1.00	< 0.20	3400	< 0.5	< 0.50	5.0	< 5	50	< 5	< 0.50	1050	70	< 1	< 0.50
VR42024A	210	222	50	< 2	< 2	35	< 0.20	< 1.00	< 0.20	4400	< 0.5	< 0.50	3.0	< 5	50	< 5	0.50	700	77	< 1	< 0.50
VR42025A	210	222	< 50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	2900	< 0.5	< 0.50	5.5	< 5	< 50	< 5	0.50	1300	110	< 1	< 0.50
VR42026A	210	222	50	< 2	< 2	165	< 0.20	< 1.00	< 0.20	5300	< 0.5	< 0.50	3.5	< 5	50	< 5	1.00	1000	94	< 1	< 0.50
VR42027A	210	222	100	< 2	< 2	70	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	3.0	< 5	100	< 5	1.00	1150	64	< 1	< 0.50
VR42028A	210	222	< 50	< 2	< 2	45	< 0.20	< 1.00	< 0.20	3000	< 0.5	< 0.50	5.0	< 5	< 50	< 5	< 0.50	1200	33	< 1	< 0.50
VR42029A	210	222	< 50	< 2	< 2	65	< 0.20	< 1.00	< 0.20	3200	< 0.5	< 0.50	5.0	< 5	< 50	< 5	< 0.50	1300	57	< 1	< 0.50
VR42030A	210	222	< 50	< 2	< 2	165	< 0.20	< 1.00	< 0.20	5100	< 0.5	< 0.50	8.5	< 5	< 50	< 5	< 0.50	1350	88	< 1	< 0.50
VR42031A	210	222	< 50	< 2	< 2	135	< 0.20	< 1.00	< 0.20	3200	< 0.5	< 0.50	4.5	< 5	< 50	< 5	< 0.50	1400	300	< 1	< 0.50
VR42032A	210	222	< 50	< 2	< 2	15	< 0.20	< 1.00	< 0.20	1850	< 0.5	< 0.50	3.5	< 5	< 50	< 5	< 0.50	1050	83	< 1	< 0.50
VR42033A	210	222	< 50	< 2	< 2	25	< 0.20	< 1.00	< 0.20	1800	< 0.5	< 0.50	4.0	< 5	< 50	< 5	< 0.50	750	130	< 1	< 0.50
VR42034A	210	222	< 50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	7.5	< 5	< 50	< 5	< 0.50	1250	190	< 1	< 0.50
VR42035A	210	222	50	< 2	< 2	115	< 0.20	< 1.00	< 0.20	3500	< 0.5	< 0.50	4.0	< 5	50	< 5	0.50	1050	150	< 1	< 0.50
VR42036A	210	222	< 50	< 2	< 2	80	< 0.20	< 1.00	< 0.20	3300	0.5	< 0.50	7.0	< 5	< 50	< 5	0.50	1500	110	< 1	< 0.50
VR42037A	210	222	50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	5.5	< 5	50	< 5	0.50	750	55	< 1	< 0.50
VR42038A	210	222	< 50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	4600	< 0.5	< 0.50	3.5	< 5	< 50	< 5	0.50	700	125	< 1	< 0.50
VR42039A	210	222	< 50	< 2	< 2	80	< 0.20	< 1.00	< 0.20	3700	< 0.5	< 0.50	6.5	< 5	< 50	< 5	< 0.50	1100	66	< 1	< 0.50
VR42040A	210	222	50	< 2	< 2	90	< 0.20	< 1.00	< 0.20	4600	0.5	< 0.50	7.5	< 5	100	< 5	1.50	950	74	< 1	< 0.50
VR42041A	210	222	< 50	< 2	< 2	55	< 0.20	< 1.00	< 0.20	4200	< 0.5	< 0.50	4.5	< 5	< 50	< 5	0.50	1350	51	< 1	< 0.50
VR42042A	210	222	50	< 2	< 2	145	< 0.20	< 1.00	< 0.20	3100	< 0.5	< 0.50	4.5	< 5	< 50	< 5	< 0.50	1350	155	< 1	< 0.50
VR42043A	210	222	< 50	< 2	< 2	35	< 0.20	< 1.00	< 0.20	3100	< 0.5	< 0.50	5.0	< 5	< 50	< 5	0.50	950	240	< 1	< 0.50
VR42044A	210	222	< 50	< 2	< 2	50	< 0.20	< 1.00	< 0.20	3200	< 0.5	< 0.50	3.5	< 5	< 50	< 5	0.50	1100	170	< 1	< 0.50
VR42045A	210	222	< 50	< 2	< 2	65	< 0.20	1.00	< 0.20	3500	< 0.5	< 0.50	5.5	< 5	< 50	< 5	< 0.50	1950	210	< 1	< 0.50
VR42046A	210	222	< 50	< 2	< 2	25	< 0.20	< 1.00	< 0.20	1950	< 0.5	< 0.50	4.0	< 5	< 50	< 5	0.50	1050	93	< 1	< 0.50
VR42047A	210	222	< 50	< 2	< 2	70	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	5.5	< 5	< 50	< 5	0.50	900	35	< 1	< 0.50
VR42048A	210	222	< 50	< 2	< 2	45	< 0.20	1.00	< 0.20	3200	< 0.5	< 0.50	6.5	< 5	< 50	< 5	< 0.50	1300	87	< 1	< 0.50
VR42049A	210	222	50	< 2	< 2	50	< 0.20	< 1.00	< 0.20	3200	< 0.5	< 0.50	4.0	< 5	50	< 5	0.50	800	100	< 1	< 0.50
VR42050A	210	222	< 50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	3000	< 0.5	< 0.50	8.5	< 5	< 50	< 5	< 0.50	1200	80	< 1	< 0.50
VR42051A	210	222	< 50	< 2	< 2	55	< 0.20	< 1.00	< 0.20	2100	< 0.5	< 0.50	4.0	< 5	< 50	< 5	< 0.50	600	83	< 1	< 0.50
VR42052A	210	222	< 50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	4200	< 0.5	< 0.50	6.5	< 5	< 50	< 5	< 0.50	1050	76	< 1	< 0.50
VR42053A	210	222	< 50	< 2	< 2	35	< 0.20	< 1.00	< 0.20	1750	0.5	< 0.50	3.5	< 5	< 50	< 5	0.50	550	160	< 1	< 0.50
VR42054A	210	222	50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	5.0	< 5	50	< 5	0.50	650	270	< 1	< 0.50
VR42055A	210	222	< 50	< 2	< 2	95	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	4.5	< 5	50	< 5	< 0.50	1150	52	< 1	< 0.50
VR42056A	210	222	50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	3700	< 0.5	< 0.50	4.0	< 5	50	< 5	1.50	850	97	< 1	< 0.50
VR42057A	210	222	50	< 2	< 2	55	< 0.20	< 1.00	< 0.20	3900	< 0.5	< 0.50	4.0	< 5	100	< 5	1.00	950	105	< 1	< 0.50
VR42058A	210	222	50	< 2	< 2	65	< 0.20	< 1.00	< 0.20	5700	< 0.5	< 0.50	4.5	< 5	100	< 5	< 0.50	700	90	< 1	< 0.50
VR42059A	210	222	< 50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	3400	< 0.5	< 0.50	3.0	< 5	< 50	< 5	1.00	950	71	< 1	< 0.50

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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

To: KENNECOTT CANADA INC.

3169 3RD AVE.
WHITEHORSE, YT
Y1A 1G4

Project : 30 4163
Comments: ATTN: RICK ZURAN CC: ROGER HULSTEIN

Certificate Date: 11-JUN-96
Invoice No. : I9619118
P.O. Number :
Account : NRB

CERTIFICATE OF ANALYSIS A9619118

SAMPLE	PREP CODE		Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	U ppm	V ppm	Zn ppm	Hg ppb
VR42020A	210	222	3.0	2520	11200	< 2	< 0.10	< 50	4.0	< 5	< 50	< 2	< 5	< 0.50	23	< 5
VR42021A	210	222	< 0.50	600	3800	< 2	< 0.10	< 50	14.0	< 5	< 50	< 2	< 5	< 0.50	21	< 5
VR42022A	210	222	0.50	1125	5300	< 2	< 0.10	< 50	22	< 5	< 50	< 2	< 5	< 0.50	66	5
VR42023A	210	222	0.50	890	4300	< 2	< 0.10	< 50	20	< 5	< 50	< 2	< 5	< 0.50	52	5
VR42024A	210	222	0.50	565	3000	< 2	< 0.10	< 50	17.0	< 5	< 50	< 2	< 5	< 0.50	37	< 5
VR42025A	210	222	3.0	1505	5500	< 2	< 0.10	< 50	15.5	< 5	< 50	< 2	< 5	< 0.50	43	< 5
VR42026A	210	222	0.50	835	4700	< 2	< 0.10	< 50	26	< 5	< 50	< 2	< 5	< 0.50	51	5
VR42027A	210	222	2.0	810	3600	< 2	< 0.10	50	12.5	< 5	< 50	< 2	< 5	< 0.50	43	< 5
VR42028A	210	222	1.00	1025	5600	< 2	< 0.10	< 50	17.0	< 5	< 50	< 2	< 5	< 0.50	42	< 5
VR42029A	210	222	3.5	1280	5200	< 2	< 0.10	< 50	11.5	< 5	< 50	< 2	< 5	< 0.50	54	< 5
VR42030A	210	222	6.0	1415	5300	< 2	< 0.10	< 50	24	< 5	< 50	< 2	< 5	< 0.50	79	< 5
VR42031A	210	222	5.5	1735	6300	< 2	< 0.10	< 50	21	< 5	< 50	< 2	< 5	< 0.50	48	< 5
VR42032A	210	222	3.5	1155	4600	< 2	< 0.10	< 50	7.5	< 5	< 50	< 2	< 5	< 0.50	39	5
VR42033A	210	222	4.5	870	3500	< 2	< 0.10	< 50	9.0	< 5	< 50	< 2	< 5	< 0.50	40	< 5
VR42034A	210	222	10.0	1730	5600	< 2	< 0.10	< 50	22	< 5	< 50	< 2	< 5	< 0.50	72	< 5
VR42035A	210	222	9.5	1130	4400	< 2	< 0.10	< 50	30	< 5	< 50	< 2	< 5	< 0.50	54	< 5
VR42036A	210	222	8.5	1670	6600	< 2	< 0.10	< 50	20	< 5	< 50	< 2	< 5	< 0.50	66	5
VR42037A	210	222	0.50	825	4500	< 2	< 0.10	< 50	21	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42038A	210	222	1.00	755	4600	< 2	< 0.10	< 50	16.5	< 5	< 50	< 2	< 5	< 0.50	52	5
VR42039A	210	222	2.0	950	5200	< 2	< 0.10	< 50	19.0	< 5	< 50	< 2	< 5	< 0.50	62	< 5
VR42040A	210	222	0.50	745	3300	< 2	< 0.10	< 50	37	< 5	< 50	< 2	< 5	< 0.50	77	10
VR42041A	210	222	< 0.50	1110	5200	< 2	< 0.10	< 50	25	< 5	< 50	< 2	< 5	< 0.50	49	5
VR42042A	210	222	3.0	1215	4800	< 2	< 0.10	< 50	22	< 5	< 50	< 2	< 5	< 0.50	45	5
VR42043A	210	222	1.50	1380	6500	< 2	< 0.10	50	8.5	< 5	< 50	< 2	< 5	< 0.50	30	< 5
VR42044A	210	222	1.50	890	4500	< 2	< 0.10	50	12.5	< 5	< 50	< 2	< 5	< 0.50	37	< 5
VR42045A	210	222	8.0	1910	7100	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	50	< 5
VR42046A	210	222	4.5	1300	5700	< 2	< 0.10	50	8.0	< 5	< 50	< 2	< 5	< 0.50	46	5
VR42047A	210	222	2.0	1175	7900	< 2	< 0.10	50	15.5	< 5	< 50	< 2	< 5	< 0.50	48	5
VR42048A	210	222	0.50	1105	5900	< 2	< 0.10	50	12.0	< 5	< 50	< 2	< 5	< 0.50	68	5
VR42049A	210	222	8.5	765	5400	< 2	< 0.10	50	14.5	< 5	< 50	< 2	< 5	< 0.50	48	5
VR42050A	210	222	9.5	1625	6500	< 2	< 0.10	50	13.0	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42051A	210	222	5.0	790	4300	< 2	< 0.10	50	13.5	< 5	< 50	< 2	< 5	< 0.50	38	< 5
VR42052A	210	222	4.5	1520	7600	< 2	< 0.10	50	15.5	< 5	< 50	< 2	< 5	< 0.50	72	< 5
VR42053A	210	222	0.50	1285	6100	< 2	< 0.10	50	10.0	< 5	< 50	< 2	< 5	< 0.50	18.0	5
VR42054A	210	222	0.50	1030	3700	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	53	5
VR42055A	210	222	1.00	825	3900	< 2	< 0.10	50	24	< 5	< 50	< 2	< 5	< 0.50	54	5
VR42056A	210	222	0.50	720	3300	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	44	< 5
VR42057A	210	222	1.00	900	4700	< 2	< 0.10	50	12.0	< 5	< 50	< 2	< 5	< 0.50	65	5
VR42058A	210	222	0.50	920	4500	< 2	< 0.10	100	24	< 5	< 50	< 2	< 5	< 0.50	82	15
VR42059A	210	222	< 0.50	860	4500	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	37	< 5

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To: KENNECOTT CANADA INC.

3169 3RD AVE.
WHITEHORSE, YT
Y1A 1G4

Project : 30 4163
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Certificate Date: 11-JUN-96
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CERTIFICATE OF ANALYSIS A9619118

SAMPLE	PREP CODE		Al ppm	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Ga ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm
VR42060A	210	222	150	< 2	< 2	50	< 0.20	< 1.00	< 0.20	3700	< 0.5	< 0.50	3.5	< 5	150	< 5	2.5	950	145	< 1	< 0.50
VR42061A	210	222	50	< 2	< 2	140	< 0.20	< 1.00	< 0.20	4800	< 0.5	< 0.50	5.0	< 5	50	< 5	2.5	850	54	< 1	< 0.50
VR42062A	210	222	< 50	< 2	< 2	45	< 0.20	< 1.00	< 0.20	2700	< 0.5	< 0.50	5.5	< 5	< 50	< 5	2.0	1300	62	< 1	< 0.50
VR42063A	210	222	< 50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	2700	< 0.5	< 0.50	4.0	< 5	< 50	< 5	3.0	850	46	< 1	< 0.50
VR42064A	210	222	50	< 2	< 2	75	< 0.20	< 1.00	< 0.20	3400	< 0.5	< 0.50	5.5	< 5	50	< 5	3.0	950	66	< 1	< 0.50
VR42065A	210	222	< 50	< 2	< 2	100	< 0.20	< 1.00	< 0.20	4000	< 0.5	< 0.50	6.5	< 5	< 50	< 5	2.5	850	23	< 1	< 0.50
VR42066A	210	222	< 50	< 2	< 2	70	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	6.5	< 5	< 50	< 5	2.0	950	105	< 1	< 0.50
VR42067A	210	222	< 50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	4.5	< 5	< 50	< 5	2.0	950	94	< 1	< 0.50
VR42068A	210	222	50	< 2	< 2	35	< 0.20	< 1.00	< 0.20	4200	< 0.5	< 0.50	3.0	< 5	50	< 5	3.0	1000	145	< 1	< 0.50
VR42069A	210	222	50	< 2	< 2	30	< 0.20	< 1.00	< 0.20	2900	0.5	< 0.50	5.5	< 5	50	< 5	3.5	1650	150	< 1	< 0.50
VR42070A	210	222	50	< 2	< 2	95	< 0.20	< 1.00	< 0.20	4200	< 0.5	< 0.50	4.5	< 5	50	< 5	3.0	1200	110	< 1	< 0.50
VR42071A	210	222	50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	4.5	< 5	100	< 5	3.0	1350	300	< 1	< 0.50
VR42072A	210	222	50	< 2	< 2	30	< 0.20	< 1.00	< 0.20	4000	< 0.5	< 0.50	4.5	< 5	50	< 5	3.5	1250	135	< 1	< 0.50
VR42073A	210	222	150	< 2	< 2	80	< 0.20	< 1.00	< 0.20	4300	< 0.5	< 0.50	4.5	< 5	150	< 5	2.0	900	250	< 1	< 0.50
VR42074A	210	222	< 50	< 2	< 2	25	< 0.20	< 1.00	< 0.20	2700	< 0.5	< 0.50	7.5	< 5	< 50	< 5	2.5	1700	130	< 1	< 0.50
VR42075A	210	222	< 50	< 2	< 2	65	< 0.20	< 1.00	< 0.20	3100	< 0.5	< 0.50	5.0	< 5	< 50	< 5	3.0	1050	100	< 1	< 0.50
VR42076A	210	222	100	< 2	< 2	45	< 0.20	< 1.00	< 0.20	4800	0.5	< 0.50	3.5	< 5	150	< 5	3.0	700	170	< 1	< 0.50
VR42077A	210	222	150	< 2	< 2	65	< 0.20	< 1.00	< 0.20	5200	0.5	< 0.50	3.5	< 5	150	< 5	3.5	950	175	< 1	< 0.50
VR42078A	210	222	50	< 2	< 2	100	< 0.20	< 1.00	< 0.20	4500	< 0.5	< 0.50	3.0	< 5	50	< 5	3.0	750	60	< 1	< 0.50
VR42079A	210	222	50	< 2	< 2	50	< 0.20	< 1.00	< 0.20	4200	< 0.5	< 0.50	4.0	< 5	50	< 5	3.0	900	57	< 1	< 0.50
VR42080A	210	222	150	< 2	< 2	100	< 0.20	< 1.00	< 0.20	3700	< 0.5	< 0.50	4.5	< 5	150	< 5	3.5	900	125	< 1	< 0.50
VR42081A	210	222	< 50	< 2	< 2	45	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	6.5	< 5	< 50	< 5	2.0	1100	50	< 1	< 0.50
VR42082A	210	222	50	< 2	< 2	30	< 0.20	< 1.00	< 0.20	1900	< 0.5	< 0.50	4.0	< 5	< 50	< 5	2.0	1050	240	< 1	< 0.50
VR42083A	210	222	< 50	< 2	< 2	15	< 0.20	< 1.00	< 0.20	2000	< 0.5	< 0.50	5.0	< 5	< 50	< 5	3.5	1750	150	< 1	< 0.50
VR42084A	210	222	50	< 2	< 2	30	< 0.20	< 1.00	< 0.20	3000	< 0.5	< 0.50	3.0	< 5	100	< 5	3.0	850	140	< 1	< 0.50
VR42085A	210	222	50	< 2	< 2	155	< 0.20	< 1.00	< 0.20	2800	< 0.5	< 0.50	3.5	< 5	50	< 5	2.0	1050	100	< 1	< 0.50
VR42086A	210	222	200	< 2	< 2	55	< 0.20	< 1.00	< 0.20	2600	< 0.5	< 0.50	3.0	< 5	< 50	< 5	2.5	700	450	< 1	< 0.50
VR42087A	210	222	50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	3.5	< 5	50	< 5	3.0	850	66	< 1	< 0.50
VR42088A	210	222	50	< 2	< 2	50	< 0.20	< 1.00	< 0.20	4500	< 0.5	< 0.50	3.5	< 5	50	< 5	3.0	1300	78	< 1	< 0.50
VR42089A	210	222	50	< 2	< 2	40	< 0.20	< 1.00	< 0.20	3000	< 0.5	< 0.50	4.5	< 5	50	< 5	3.5	1500	125	< 1	< 0.50
VR42090A	210	222	150	< 2	< 2	60	< 0.20	< 1.00	< 0.20	3900	< 0.5	< 0.50	3.0	< 5	50	< 5	3.0	1600	500	< 1	< 0.50
VR42091A	210	222	< 50	< 2	< 2	55	< 0.20	< 1.00	< 0.20	2800	< 0.5	< 0.50	8.5	< 5	< 50	< 5	2.5	1550	51	< 1	< 0.50
VR42092A	210	222	< 50	< 2	< 2	120	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	4.5	< 5	< 50	< 5	2.5	1700	74	< 1	< 0.50
VR42093A	210	222	50	< 2	< 2	45	< 0.20	< 1.00	< 0.20	4100	< 0.5	< 0.50	3.5	< 5	50	< 5	4.0	1200	120	< 1	< 0.50
VR42094A	210	222	50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	4200	0.5	< 0.50	5.0	< 5	50	< 5	3.5	800	95	< 1	< 0.50
VR42095A	210	222	50	< 2	< 2	20	< 0.20	< 1.00	< 0.20	3700	< 0.5	< 0.50	3.5	< 5	50	< 5	3.0	1350	140	< 1	< 0.50
VR42096A	210	222	100	< 2	< 2	90	< 0.20	< 1.00	< 0.20	3200	0.5	< 0.50	3.0	< 5	100	< 5	3.5	1000	140	< 1	< 0.50
VR42097A	210	222	50	< 2	< 2	75	< 0.20	< 1.00	< 0.20	3600	< 0.5	< 0.50	4.0	< 5	50	< 5	3.0	1050	39	< 1	< 0.50
VR42098A	210	222	150	< 2	< 2	70	< 0.20	< 1.00	< 0.20	5400	< 0.5	< 0.50	6.0	< 5	150	< 5	4.0	1150	125	< 1	< 0.50
VR42099A	210	222	100	< 2	< 2	70	< 0.20	< 1.00	< 0.20	4400	< 0.5	< 0.50	4.0	< 5	150	< 5	3.0	800	150	< 1	< 0.50

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SAMPLE	PREP CODE		Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	U ppm	V ppm	Zn ppm	Hg ppb
VR42060A	210	222	3.5	845	3700	< 2	< 0.10	50	15.0	< 5	< 50	< 2	< 5	< 0.50	56	< 5
VR42061A	210	222	1.50	695	4200	< 2	< 0.10	50	21	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42062A	210	222	5.5	1370	6000	< 2	< 0.10	50	12.0	< 5	< 50	< 2	< 5	< 0.50	39	< 5
VR42063A	210	222	1.50	860	5500	< 2	< 0.10	50	11.5	< 5	< 50	< 2	< 5	< 0.50	48	< 5
VR42064A	210	222	1.00	685	4500	< 2	< 0.10	50	18.5	< 5	< 50	< 2	< 5	< 0.50	51	< 5
VR42065A	210	222	5.5	1055	7400	< 2	< 0.10	50	18.0	< 5	< 50	< 2	< 5	< 0.50	62	< 5
VR42066A	210	222	7.5	1205	7200	< 2	< 0.10	50	16.5	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42067A	210	222	6.5	930	6200	< 2	< 0.10	50	19.5	< 5	< 50	< 2	< 5	< 0.50	57	10
VR42068A	210	222	1.50	685	4700	< 2	< 0.10	50	11.5	< 5	< 50	< 2	< 5	< 0.50	48	< 5
VR42069A	210	222	5.5	880	4200	< 2	< 0.10	50	12.0	< 5	< 50	< 2	< 5	< 0.50	53	< 5
VR42070A	210	222	5.5	845	5200	< 2	< 0.10	50	21	< 5	< 50	< 2	< 5	< 0.50	50	< 5
VR42071A	210	222	3.5	970	4200	< 2	< 0.10	50	14.0	< 5	< 50	< 2	< 5	< 0.50	53	5
VR42072A	210	222	4.5	1015	4800	< 2	< 0.10	50	9.5	< 5	< 50	< 2	< 5	< 0.50	49	< 5
VR42073A	210	222	3.0	695	3700	< 2	< 0.10	50	20	< 5	< 50	< 2	< 5	< 0.50	63	5
VR42074A	210	222	5.5	1765	7200	< 2	< 0.10	50	9.5	< 5	< 50	< 2	< 5	< 0.50	56	< 5
VR42075A	210	222	2.0	710	8300	< 2	< 0.10	50	34	< 5	< 50	< 2	< 5	< 0.50	50	< 5
VR42076A	210	222	2.0	455	3600	< 2	< 0.10	50	18.5	< 5	< 50	< 2	< 5	< 0.50	61	< 5
VR42077A	210	222	3.5	525	3000	< 2	< 0.10	50	19.5	< 5	< 50	< 2	< 5	< 0.50	50	< 5
VR42078A	210	222	2.0	450	3400	< 2	< 0.10	50	26	< 5	< 50	< 2	< 5	< 0.50	53	< 5
VR42079A	210	222	3.5	670	4200	< 2	< 0.10	50	16.5	< 5	< 50	< 2	< 5	< 0.50	51	< 5
VR42080A	210	222	4.5	530	3100	< 2	< 0.10	50	15.0	< 5	< 50	< 2	< 5	< 0.50	49	10
VR42081A	210	222	5.0	1045	6800	< 2	< 0.10	50	28	< 5	< 50	< 2	< 5	< 0.50	52	5
VR42082A	210	222	4.5	1800	5700	< 2	< 0.10	50	5.5	< 5	< 50	< 2	< 5	< 0.50	23	< 5
VR42083A	210	222	5.0	1775	5800	< 2	< 0.10	50	4.5	< 5	< 50	< 2	< 5	< 0.50	34	< 5
VR42084A	210	222	2.0	525	2900	< 2	< 0.10	50	11.0	< 5	< 50	< 2	< 5	< 0.50	49	< 5
VR42085A	210	222	9.0	710	4700	< 2	< 0.10	50	22	< 5	< 50	< 2	< 5	< 0.50	41	< 5
VR42086A	210	222	2.0	1620	6500	< 2	< 0.10	50	11.0	< 5	< 50	< 2	< 5	< 0.50	17.5	5
VR42087A	210	222	0.50	580	4200	< 2	< 0.10	50	21	< 5	< 50	< 2	< 5	< 0.50	49	5
VR42088A	210	222	0.50	605	5300	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	36	< 5
VR42089A	210	222	4.0	835	4400	< 2	< 0.10	50	15.0	< 5	< 50	< 2	< 5	< 0.50	42	< 5
VR42090A	210	222	2.5	940	4400	< 2	< 0.10	50	13.5	< 5	< 50	< 2	< 5	< 0.50	23	5
VR42091A	210	222	21	1075	5600	< 2	< 0.10	50	22	< 5	< 50	< 2	< 5	< 0.50	52	< 5
VR42092A	210	222	5.5	750	5200	< 2	< 0.10	50	32	< 5	< 50	< 2	< 5	< 0.50	56	< 5
VR42093A	210	222	6.5	790	4700	< 2	< 0.10	50	26	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42094A	210	222	2.5	560	3900	< 2	< 0.10	50	18.5	< 5	< 50	< 2	< 5	< 0.50	79	< 5
VR42095A	210	222	0.50	695	3900	< 2	< 0.10	50	10.5	< 5	< 50	< 2	< 5	< 0.50	53	< 5
VR42096A	210	222	3.5	675	3800	< 2	< 0.10	50	19.0	< 5	< 50	< 2	< 5	< 0.50	48	5
VR42097A	210	222	0.50	715	5300	< 2	< 0.10	50	29	< 5	< 50	< 2	< 5	< 0.50	63	5
VR42098A	210	222	2.5	645	3900	< 2	< 0.10	50	27	< 5	< 50	< 2	< 5	< 0.50	69	5
VR42099A	210	222	0.50	625	4600	< 2	< 0.10	50	21	< 5	< 50	< 2	< 5	< 0.50	71	< 5

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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

To: KENNECOTT CANADA INC.

3169 3RD AVE.
WHITEHORSE, YT
Y1A 1G4

Project : 30 4163
Comments: ATTN: RICK ZURAN CC: ROGER HULSTEIN

Certificate Date: 11-JUN-96
Invoice No. : I9619118
P.O. Number :
Account : NRB

CERTIFICATE OF ANALYSIS A9619118

SAMPLE	PREP CODE		Al ppm	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Ga ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm
VR42100A	210	222	50	< 2	< 2	95	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	5.5	< 5	50	< 5	2.5	1300	125	< 1	< 0.50
VR42101A	210	222	50	< 2	< 2	70	< 0.20	< 1.00	< 0.20	3900	< 0.5	< 0.50	4.0	< 5	50	< 5	2.5	1100	120	< 1	< 0.50
VR42102A	210	222	< 50	< 2	< 2	80	< 0.20	< 1.00	< 0.20	3800	< 0.5	< 0.50	6.0	< 5	< 50	< 5	2.5	800	50	< 1	< 0.50
VR42103A	210	222	100	< 2	< 2	60	< 0.20	< 1.00	< 0.20	3500	< 0.5	< 0.50	3.5	< 5	100	< 5	3.0	800	61	< 1	< 0.50
VR42104A	210	222	< 50	< 2	< 2	60	< 0.20	< 1.00	< 0.20	2400	< 0.5	< 0.50	5.5	< 5	< 50	< 5	2.5	900	83	< 1	< 0.50
VR42105A	210	222	< 50	< 2	< 2	85	< 0.20	< 1.00	< 0.20	4300	< 0.5	< 0.50	6.5	< 5	< 50	< 5	2.0	900	55	< 1	< 0.50

CERTIFICATION: Hart Bichler

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CERTIFICATE OF ANALYSIS A9619118

SAMPLE	PREP CODE		Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	U ppm	V ppm	Zn ppm	Hg ppb
VR42100A	210	222	3.0	805	5100	< 2	< 0.10	50	24	< 5	< 50	< 2	< 5	< 0.50	58	< 5
VR42101A	210	222	3.5	795	6700	< 2	< 0.10	50	19.0	< 5	< 50	< 2	< 5	< 0.50	47	< 5
VR42102A	210	222	5.0	660	4500	< 2	< 0.10	50	32	< 5	< 50	< 2	< 5	< 0.50	51	5
VR42103A	210	222	0.50	505	4400	< 2	< 0.10	50	35	< 5	< 50	< 2	< 5	< 0.50	55	< 5
VR42104A	210	222	8.0	940	6900	< 2	< 0.10	50	17.0	< 5	< 50	< 2	< 5	< 0.50	45	< 5
VR42105A	210	222	5.5	760	5400	< 2	< 0.10	50	36	< 5	< 50	< 2	< 5	< 0.50	59	< 5

CERTIFICATION: Hart Bichler

CYR Property (NTS 105G/11&12), KENNECOTT CANADA EXPLORATION INC.
1996 Biogeochemistry Survey Samples: Merged data

BIO_SMPL Number	EASTING m	NORTHING m	AL ppm	SB ppm	AS ppm	BA ppm	BE ppm	BI ppm	CD ppm	CA ppm	CR ppm	CO ppm	CU ppm	GA ppm	FE ppm	LA ppm	PB ppm	MG ppm	MN ppm	HG ppm	MO ppm	NI ppm	P ppm	K ppm	SC ppm	AG ppm
42020	365710	6827000	150	1	1	10	0.1	0.5	0.1	1250	0.25	0.25	4	2.5	2.5	2.5	0.25	1000	420	0.5	0.25	3	2520	11200	1	0.1
42021	365874	6826885	2.5	1	1	70	0.1	0.5	0.1	3600	0.25	0.25	3	2.5	2.5	2.5	0.25	650	200	0.5	0.25	0.25	600	3800	1	0.1
42022	366038	6826771	2.5	1	1	60	0.1	0.5	0.1	4600	0.5	0.25	5.5	2.5	2.5	2.5	0.5	1400	54	0.5	0.25	0.5	1125	5300	1	0.1
42023	366201	6826656	50	1	1	95	0.1	0.5	0.1	3400	0.25	0.25	5	2.5	50	2.5	0.25	1050	70	0.5	0.25	0.5	890	4300	1	0.1
42024	366365	6826541	50	1	1	35	0.1	0.5	0.1	4400	0.25	0.25	3	2.5	50	2.5	0.5	700	77	0.5	0.25	0.5	565	3000	1	0.1
42025	366529	6826426	2.5	1	1	40	0.1	0.5	0.1	2900	0.25	0.25	5.5	2.5	2.5	2.5	0.5	1300	110	0.5	0.25	3	1505	5500	1	0.1
42026	366693	6826312	50	1	1	165	0.1	0.5	0.1	5300	0.25	0.25	3.5	2.5	50	2.5	1	1000	94	0.5	0.25	0.5	835	4700	1	0.1
42027	366857	6826197	100	1	1	70	0.1	0.5	0.1	3600	0.25	0.25	3	2.5	100	2.5	1	1150	64	0.5	0.25	2	810	3600	1	0.1
42028	367021	6826082	2.5	1	1	45	0.1	0.5	0.1	3000	0.25	0.25	5	2.5	2.5	2.5	0.25	1200	33	0.5	0.25	1	1025	5600	1	0.1
42029	367184	6825968	2.5	1	1	65	0.1	0.5	0.1	3200	0.25	0.25	5	2.5	2.5	2.5	0.25	1300	57	0.5	0.25	3.5	1280	5200	1	0.1
42030	367348	6825853	2.5	1	1	165	0.1	0.5	0.1	5100	0.25	0.25	8.5	2.5	2.5	2.5	0.25	1350	88	0.5	0.25	6	1415	5300	1	0.1
42031	367512	6825738	2.5	1	1	135	0.1	0.5	0.1	3200	0.25	0.25	4.5	2.5	2.5	2.5	0.25	1400	300	0.5	0.25	5.5	1735	6300	1	0.1
42032	367676	6825623	2.5	1	1	15	0.1	0.5	0.1	1850	0.25	0.25	3.5	2.5	2.5	2.5	0.25	1050	83	0.5	0.25	3.5	1155	4600	1	0.1
42033	367840	6825509	2.5	1	1	25	0.1	0.5	0.1	1800	0.25	0.25	4	2.5	2.5	2.5	0.25	750	130	0.5	0.25	4.5	870	3500	1	0.1
42034	368004	6825394	2.5	1	1	40	0.1	0.5	0.1	3600	0.25	0.25	7.5	2.5	2.5	2.5	0.25	1250	190	0.5	0.25	10	1730	5600	1	0.1
42035	368167	6825279	50	1	1	115	0.1	0.5	0.1	3500	0.25	0.25	4	2.5	50	2.5	0.5	1050	150	0.5	0.25	9.5	1130	4400	1	0.1
42036	368331	6825165	2.5	1	1	80	0.1	0.5	0.1	3300	0.5	0.25	7	2.5	2.5	2.5	0.5	1500	110	0.5	0.25	8.5	1670	6600	1	0.1
42037	365600	6826835	50	1	1	40	0.1	0.5	0.1	3800	0.25	0.25	5.5	2.5	50	2.5	0.5	750	55	0.5	0.25	0.5	825	4500	1	0.1
42038	365764	6826720	2.5	1	1	60	0.1	0.5	0.1	4600	0.25	0.25	3.5	2.5	2.5	2.5	0.5	700	125	0.5	0.25	1	755	4600	1	0.1
42039	365928	6826606	2.5	1	1	80	0.1	0.5	0.1	3700	0.25	0.25	6.5	2.5	2.5	2.5	0.25	1100	66	0.5	0.25	2	950	5200	1	0.1
42040	366091	6826491	50	1	1	90	0.1	0.5	0.1	4600	0.5	0.25	7.5	2.5	100	2.5	1.5	950	74	0.5	0.25	0.5	745	3300	1	0.1
42041	366255	6826376	2.5	1	1	55	0.1	0.5	0.1	4200	0.25	0.25	4.5	2.5	2.5	2.5	0.5	1350	51	0.5	0.25	0.25	1110	5200	1	0.1
42042	366419	6826261	50	1	1	145	0.1	0.5	0.1	3100	0.25	0.25	4.5	2.5	2.5	2.5	0.25	1350	155	0.5	0.25	3	1215	4800	1	0.1
42043	366583	6826147	2.5	1	1	35	0.1	0.5	0.1	3100	0.25	0.25	5	2.5	2.5	2.5	0.5	950	240	0.5	0.25	1.5	1380	6500	1	0.1
42044	366747	6826032	2.5	1	1	50	0.1	0.5	0.1	3200	0.25	0.25	3.5	2.5	2.5	2.5	0.5	1100	170	0.5	0.25	1.5	890	4500	1	0.1
42045	366911	6825917	2.5	1	1	65	0.1	1	0.1	3500	0.25	0.25	5.5	2.5	2.5	2.5	0.25	1950	210	0.5	0.25	8	1910	7100	1	0.1
42046	367074	6825803	2.5	1	1	25	0.1	0.5	0.1	1950	0.25	0.25	4	2.5	2.5	2.5	0.5	1050	93	0.5	0.25	4.5	1300	5700	1	0.1
42047	367238	6825688	2.5	1	1	70	0.1	0.5	0.1	3600	0.25	0.25	5.5	2.5	2.5	2.5	0.5	900	35	0.5	0.25	2	1175	7900	1	0.1
42048	367402	6825573	2.5	1	1	45	0.1	1	0.1	3200	0.25	0.25	6.5	2.5	2.5	2.5	0.25	1300	87	0.5	0.25	0.5	1105	5900	1	0.1
42049	367566	6825458	50	1	1	50	0.1	0.5	0.1	3200	0.25	0.25	4	2.5	50	2.5	0.5	800	100	0.5	0.25	8.5	765	5400	1	0.1
42050	367730	6825344	2.5	1	1	85	0.1	0.5	0.1	3000	0.25	0.25	8.5	2.5	2.5	2.5	0.25	1200	80	0.5	0.25	9.5	1625	6500	1	0.1
42051	367894	6825229	2.5	1	1	55	0.1	0.5	0.1	2100	0.25	0.25	4	2.5	2.5	2.5	0.25	600	83	0.5	0.25	5	790	4300	1	0.1
42052	368057	6825114	2.5	1	1	85	0.1	0.5	0.1	4200	0.25	0.25	6.5	2.5	2.5	2.5	0.25	1050	76	0.5	0.25	4.5	1520	7600	1	0.1
42053	365480	6826675	2.5	1	1	35	0.1	0.5	0.1	1750	0.5	0.25	3.5	2.5	2.5	2.5	0.5	550	160	0.5	0.25	0.5	1285	6100	1	0.1
42054	365644	6826560	50	1	1	40	0.1	0.5	0.1	3600	0.25	0.25	5	2.5	50	2.5	0.5	650	270	0.5	0.25	0.5	1030	3700	1	0.1

BIO_SMPL Number	NA ppm	SR ppm	TL ppm	TI ppm	W ppm	U ppm	V ppm	ZN ppm	HG ppb	CERTIF Number	SPECIES	Number Rings	Diam mm
42020	2.5	4	2.5	2.5	1	2.5	0.25	23	2.5	A9619118	BALSAM	7	22
42021	2.5	14	2.5	2.5	1	2.5	0.25	21	2.5	A9619118	BALSAM	8	23
42022	2.5	22	2.5	2.5	1	2.5	0.25	66	5	A9619118	SPRUCE	10	22
42023	2.5	20	2.5	2.5	1	2.5	0.25	52	5	A9619118	SPRUCE	13	19
42024	2.5	17	2.5	2.5	1	2.5	0.25	37	2.5	A9619118	SPRUCE	31	27
42025	2.5	15.5	2.5	2.5	1	2.5	0.25	43	2.5	A9619118	SPRUCE	7	24
42026	2.5	26	2.5	2.5	1	2.5	0.25	51	5	A9619118	SPRUCE	16	20
42027	50	12.5	2.5	2.5	1	2.5	0.25	43	2.5	A9619118	SPRUCE	24	22
42028	2.5	17	2.5	2.5	1	2.5	0.25	42	2.5	A9619118	SPRUCE	8	27
42029	2.5	11.5	2.5	2.5	1	2.5	0.25	54	2.5	A9619118	SPRUCE	7	23
42030	2.5	24	2.5	2.5	1	2.5	0.25	79	2.5	A9619118	SPRUCE	7	20
42031	2.5	21	2.5	2.5	1	2.5	0.25	48	2.5	A9619118	SPRUCE	6	18
42032	2.5	7.5	2.5	2.5	1	2.5	0.25	39	5	A9619118	SPRUCE	8	28
42033	2.5	9	2.5	2.5	1	2.5	0.25	40	2.5	A9619118	SPRUCE	7	27
42034	2.5	22	2.5	2.5	1	2.5	0.25	72	2.5	A9619118	SPRUCE	6	23
42035	2.5	30	2.5	2.5	1	2.5	0.25	54	2.5	A9619118	SPRUCE	16	25
42036	2.5	20	2.5	2.5	1	2.5	0.25	66	5	A9619118	SPRUCE	8	25
42037	2.5	21	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	17	16
42038	2.5	16.5	2.5	2.5	1	2.5	0.25	52	5	A9619118	SPRUCE	8	17
42039	2.5	19	2.5	2.5	1	2.5	0.25	62	2.5	A9619118	SPRUCE	10	27
42040	2.5	37	2.5	2.5	1	2.5	0.25	77	10	A9619118	SPRUCE	24	24
42041	2.5	25	2.5	2.5	1	2.5	0.25	49	5	A9619118	SPRUCE	8	22
42042	2.5	22	2.5	2.5	1	2.5	0.25	45	5	A9619118	SPRUCE	16	26
42043	50	8.5	2.5	2.5	1	2.5	0.25	30	2.5	A9619118	BALSAM	15	24
42044	50	12.5	2.5	2.5	1	2.5	0.25	37	2.5	A9619118	SPRUCE	20	22
42045	50	17	2.5	2.5	1	2.5	0.25	50	2.5	A9619118	SPRUCE	6	28
42046	50	8	2.5	2.5	1	2.5	0.25	46	5	A9619118	SPRUCE	6	22
42047	50	15.5	2.5	2.5	1	2.5	0.25	48	5	A9619118	SPRUCE	7	23
42048	50	12	2.5	2.5	1	2.5	0.25	68	5	A9619118	SPRUCE	8	20
42049	50	14.5	2.5	2.5	1	2.5	0.25	48	5	A9619118	SPRUCE	32	24
42050	50	13	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	8	24
42051	50	13.5	2.5	2.5	1	2.5	0.25	38	2.5	A9619118	SPRUCE	7	29
42052	50	15.5	2.5	2.5	1	2.5	0.25	72	2.5	A9619118	SPRUCE	8	14
42053	50	10	2.5	2.5	1	2.5	0.25	18	5	A9619118	BALSAM	5	22
42054	50	17	2.5	2.5	1	2.5	0.25	53	5	A9619118	SPRUCE	25	24

BIO_SMPL Number	EASTING m	NORTHING m	AL ppm	SB ppm	AS ppm	BA ppm	BE ppm	BI ppm	CD ppm	CA ppm	CR ppm	CO ppm	CU ppm	GA ppm	FE ppm	LA ppm	PB ppm	MG ppm	MN ppm	HG ppm	MO ppm	NI ppm	P ppm	K ppm	SC ppm	AG ppm
42055	365808	6826446	2.5	1	1	95	0.1	0.5	0.1	3800	0.25	0.25	4.5	2.5	50	2.5	0.25	1150	52	0.5	0.25	1	825	3900	1	0.1
42056	365971	6826331	50	1	1	60	0.1	0.5	0.1	3700	0.25	0.25	4	2.5	50	2.5	1.5	850	97	0.5	0.25	0.5	720	3300	1	0.1
42057	366135	6826216	50	1	1	55	0.1	0.5	0.1	3900	0.25	0.25	4	2.5	100	2.5	1	950	105	0.5	0.25	1	900	4700	1	0.1
42058	366299	6826101	50	1	1	65	0.1	0.5	0.1	5700	0.25	0.25	4.5	2.5	100	2.5	0.25	700	90	0.5	0.25	0.5	920	4500	1	0.1
42059	366463	6825987	2.5	1	1	85	0.1	0.5	0.1	3400	0.25	0.25	3	2.5	2.5	2.5	1	950	71	0.5	0.25	0.25	860	4500	1	0.1
42060	366627	6825872	150	1	1	50	0.1	0.5	0.1	3700	0.25	0.25	3.5	2.5	150	2.5	2.5	950	145	0.5	0.25	3.5	845	3700	1	0.1
42061	366791	6825757	50	1	1	140	0.1	0.5	0.1	4800	0.25	0.25	5	2.5	50	2.5	2.5	850	54	0.5	0.25	1.5	695	4200	1	0.1
42062	366954	6825643	2.5	1	1	45	0.1	0.5	0.1	2700	0.25	0.25	5.5	2.5	2.5	2.5	2	1300	62	0.5	0.25	5.5	1370	6000	1	0.1
42063	367118	6825528	2.5	1	1	40	0.1	0.5	0.1	2700	0.25	0.25	4	2.5	2.5	2.5	3	850	46	0.5	0.25	1.5	860	5500	1	0.1
42064	367282	6825413	50	1	1	75	0.1	0.5	0.1	3400	0.25	0.25	5.5	2.5	50	2.5	3	950	66	0.5	0.25	1	685	4500	1	0.1
42065	367446	6825298	2.5	1	1	100	0.1	0.5	0.1	4000	0.25	0.25	6.5	2.5	2.5	2.5	2.5	850	23	0.5	0.25	5.5	1055	7400	1	0.1
42066	367610	6825184	2.5	1	1	70	0.1	0.5	0.1	3800	0.25	0.25	6.5	2.5	2.5	2.5	2	950	105	0.5	0.25	7.5	1205	7200	1	0.1
42067	367774	6825069	2.5	1	1	85	0.1	0.5	0.1	3800	0.25	0.25	4.5	2.5	2.5	2.5	2	950	94	0.5	0.25	6.5	930	6200	1	0.1
42068	365835	6824545	50	1	1	35	0.1	0.5	0.1	4200	0.25	0.25	3	2.5	50	2.5	3	1000	145	0.5	0.25	1.5	685	4700	1	0.1
42069	366001	6824433	50	1	1	30	0.1	0.5	0.1	2900	0.5	0.25	5.5	2.5	50	2.5	3.5	1650	150	0.5	0.25	5.5	880	4200	1	0.1
42070	366167	6824321	50	1	1	95	0.1	0.5	0.1	4200	0.25	0.25	4.5	2.5	50	2.5	3	1200	110	0.5	0.25	5.5	845	5200	1	0.1
42071	366332	6824209	50	1	1	60	0.1	0.5	0.1	3600	0.25	0.25	4.5	2.5	100	2.5	3	1350	300	0.5	0.25	3.5	970	4200	1	0.1
42072	366498	6824098	50	1	1	30	0.1	0.5	0.1	4000	0.25	0.25	4.5	2.5	50	2.5	3.5	1250	135	0.5	0.25	4.5	1015	4800	1	0.1
42073	366664	6823986	150	1	1	80	0.1	0.5	0.1	4300	0.25	0.25	4.5	2.5	150	2.5	2	900	250	0.5	0.25	3	695	3700	1	0.1
42074	366830	6823874	2.5	1	1	25	0.1	0.5	0.1	2700	0.25	0.25	7.5	2.5	2.5	2.5	2.5	1700	130	0.5	0.25	5.5	1765	7200	1	0.1
42075	366996	6823762	2.5	1	1	65	0.1	0.5	0.1	3100	0.25	0.25	5	2.5	2.5	2.5	3	1050	100	0.5	0.25	2	710	8300	1	0.1
42076	367161	6823650	100	1	1	45	0.1	0.5	0.1	4800	0.5	0.25	3.5	2.5	150	2.5	3	700	170	0.5	0.25	2	455	3600	1	0.1
42077	367327	6823538	150	1	1	65	0.1	0.5	0.1	5200	0.5	0.25	3.5	2.5	150	2.5	3.5	950	175	0.5	0.25	3.5	525	3000	1	0.1
42078	367493	6823427	50	1	1	100	0.1	0.5	0.1	4500	0.25	0.25	3	2.5	50	2.5	3	750	60	0.5	0.25	2	450	3400	1	0.1
42079	367659	6823315	50	1	1	50	0.1	0.5	0.1	4200	0.25	0.25	4	2.5	50	2.5	3	900	57	0.5	0.25	3.5	670	4200	1	0.1
42080	367825	6823203	150	1	1	100	0.1	0.5	0.1	3700	0.25	0.25	4.5	2.5	150	2.5	3.5	900	125	0.5	0.25	4.5	530	3100	1	0.1
42081	367990	6823091	2.5	1	1	45	0.1	0.5	0.1	3600	0.25	0.25	6.5	2.5	2.5	2.5	2	1100	50	0.5	0.25	5	1045	6800	1	0.1
42082	368156	6822979	50	1	1	30	0.1	0.5	0.1	1900	0.25	0.25	4	2.5	2.5	2.5	2	1050	240	0.5	0.25	4.5	1800	5700	1	0.1
42083	368322	6822867	2.5	1	1	15	0.1	0.5	0.1	2000	0.25	0.25	5	2.5	2.5	2.5	3.5	1750	150	0.5	0.25	5	1775	5800	1	0.1
42084	365715	6824385	50	1	1	30	0.1	0.5	0.1	3000	0.25	0.25	3	2.5	100	2.5	3	850	140	0.5	0.25	2	525	2900	1	0.1
42085	365877	6824267	50	1	1	155	0.1	0.5	0.1	2800	0.25	0.25	3.5	2.5	50	2.5	2	1050	100	0.5	0.25	9	710	4700	1	0.1
42086	366039	6824150	200	1	1	55	0.1	0.5	0.1	2600	0.25	0.25	3	2.5	2.5	2.5	2.5	700	450	0.5	0.25	2	1620	6500	1	0.1
42087	366200	6824032	50	1	1	60	0.1	0.5	0.1	3600	0.25	0.25	3.5	2.5	50	2.5	3	850	66	0.5	0.25	0.5	580	4200	1	0.1
42088	366362	6823915	50	1	1	50	0.1	0.5	0.1	4500	0.25	0.25	3.5	2.5	50	2.5	3	1300	78	0.5	0.25	0.5	605	5300	1	0.1
42089	366524	6823797	50	1	1	40	0.1	0.5	0.1	3000	0.25	0.25	4.5	2.5	50	2.5	3.5	1500	125	0.5	0.25	4	835	4400	1	0.1
42090	366686	6823680	150	1	1	60	0.1	0.5	0.1	3900	0.25	0.25	3	2.5	50	2.5	3	1600	500	0.5	0.25	2.5	940	4400	1	0.1
42091	366848	6823562	2.5	1	1	55	0.1	0.5	0.1	2800	0.25	0.25	8.5	2.5	2.5	2.5	2.5	1550	51	0.5	0.25	21	1075	5600	1	0.1
42092	367009	6823445	2.5	1	1	120	0.1	0.5	0.1	3600	0.25	0.25	4.5	2.5	2.5	2.5	2.5	1700	74	0.5	0.25	5.5	750	5200	1	0.1

BIO_SMPL Number	NA ppm	SR ppm	TL ppm	TI ppm	W ppm	U ppm	V ppm	ZN ppm	HG ppb	CERTIF Number	SPECIES	Number Rings	Diam mm
42055	50	24	2.5	2.5	1	2.5	0.25	54	5	A9619118	SPRUCE	17	27
42056	50	17	2.5	2.5	1	2.5	0.25	44	2.5	A9619118	SPRUCE	27	28
42057	50	12	2.5	2.5	1	2.5	0.25	65	5	A9619118	SPRUCE	37	28
42058	100	24	2.5	2.5	1	2.5	0.25	82	15	A9619118	SPRUCE	13	17
42059	50	17	2.5	2.5	1	2.5	0.25	37	2.5	A9619118	SPRUCE	15	24
42060	50	15	2.5	2.5	1	2.5	0.25	56	2.5	A9619118	SPRUCE	33	16
42061	50	21	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	19	26
42062	50	12	2.5	2.5	1	2.5	0.25	39	2.5	A9619118	BALSAM	7	23
42063	50	11.5	2.5	2.5	1	2.5	0.25	48	2.5	A9619118	SPRUCE	11	21
42064	50	18.5	2.5	2.5	1	2.5	0.25	51	2.5	A9619118	SPRUCE	8	19
42065	50	18	2.5	2.5	1	2.5	0.25	62	2.5	A9619118	BALSAM	7	24
42066	50	16.5	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	9	19
42067	50	19.5	2.5	2.5	1	2.5	0.25	57	10	A9619118	SPRUCE	12	24
42068	50	11.5	2.5	2.5	1	2.5	0.25	48	2.5	A9619118	SPRUCE	20	19
42069	50	12	2.5	2.5	1	2.5	0.25	53	2.5	A9619118	SPRUCE	15	24
42070	50	21	2.5	2.5	1	2.5	0.25	50	2.5	A9619118	SPRUCE	12	28
42071	50	14	2.5	2.5	1	2.5	0.25	53	5	A9619118	SPRUCE	16	21
42072	50	9.5	2.5	2.5	1	2.5	0.25	49	2.5	A9619118	SPRUCE	13	24
42073	50	20	2.5	2.5	1	2.5	0.25	63	5	A9619118	SPRUCE	31	15
42074	50	9.5	2.5	2.5	1	2.5	0.25	56	2.5	A9619118	SPRUCE	5	17
42075	50	34	2.5	2.5	1	2.5	0.25	50	2.5	A9619118	SPRUCE	9	16
42076	50	18.5	2.5	2.5	1	2.5	0.25	61	2.5	A9619118	SPRUCE	36	22
42077	50	19.5	2.5	2.5	1	2.5	0.25	50	2.5	A9619118	SPRUCE	29	16
42078	50	26	2.5	2.5	1	2.5	0.25	53	2.5	A9619118	SPRUCE	34	21
42079	50	16.5	2.5	2.5	1	2.5	0.25	51	2.5	A9619118	SPRUCE	29	30
42080	50	15	2.5	2.5	1	2.5	0.25	49	10	A9619118	SPRUCE	33	18
42081	50	28	2.5	2.5	1	2.5	0.25	52	5	A9619118	SPRUCE	7	20
42082	50	5.5	2.5	2.5	1	2.5	0.25	23	2.5	A9619118	BALSAM	10	22
42083	50	4.5	2.5	2.5	1	2.5	0.25	34	2.5	A9619118	SPRUCE	6	18
42084	50	11	2.5	2.5	1	2.5	0.25	49	2.5	A9619118	SPRUCE	31	17
42085	50	22	2.5	2.5	1	2.5	0.25	41	2.5	A9619118	SPRUCE	20	26
42086	50	11	2.5	2.5	1	2.5	0.25	17.5	5	A9619118	BALSAM	19	26
42087	50	21	2.5	2.5	1	2.5	0.25	49	5	A9619118	SPRUCE	16	15
42088	50	17	2.5	2.5	1	2.5	0.25	36	2.5	A9619118	SPRUCE	19	28
42089	50	15	2.5	2.5	1	2.5	0.25	42	2.5	A9619118	SPRUCE	17	25
42090	50	13.5	2.5	2.5	1	2.5	0.25	23	5	A9619118	BALSAM	14	24
42091	50	22	2.5	2.5	1	2.5	0.25	52	2.5	A9619118	SPRUCE	8	17
42092	50	32	2.5	2.5	1	2.5	0.25	56	2.5	A9619118	SPRUCE	14	21

BIO_SMPL	EASTING	NORTHING	AL	SB	AS	BA	BE	BI	CD	CA	CR	CO	CU	GA	FE	LA	PB	MG	MN	HG	MO	NI	P	K	SC	AG
Number	m	m	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
42093	367171	6823327	50	1	1	45	0.1	0.5	0.1	4100	0.25	0.25	3.5	2.5	50	2.5	4	1200	120	0.5	0.25	6.5	790	4700	1	0.1
42094	365600	6824215	50	1	1	85	0.1	0.5	0.1	4200	0.5	0.25	5	2.5	50	2.5	3.5	800	95	0.5	0.25	2.5	560	3900	1	0.1
42095	365760	6824095	50	1	1	20	0.1	0.5	0.1	3700	0.25	0.25	3.5	2.5	50	2.5	3	1350	140	0.5	0.25	0.5	695	3900	1	0.1
42096	365919	6823974	100	1	1	90	0.1	0.5	0.1	3200	0.5	0.25	3	2.5	100	2.5	3.5	1000	140	0.5	0.25	3.5	675	3800	1	0.1
42097	366079	6823854	50	1	1	75	0.1	0.5	0.1	3600	0.25	0.25	4	2.5	50	2.5	3	1050	39	0.5	0.25	0.5	715	5300	1	0.1
42098	366239	6823734	150	1	1	70	0.1	0.5	0.1	5400	0.25	0.25	6	2.5	150	2.5	4	1150	125	0.5	0.25	2.5	645	3900	1	0.1
42099	366399	6823613	100	1	1	70	0.1	0.5	0.1	4400	0.25	0.25	4	2.5	150	2.5	3	800	150	0.5	0.25	0.5	625	4600	1	0.1
42100	366558	6823493	50	1	1	95	0.1	0.5	0.1	3800	0.25	0.25	5.5	2.5	50	2.5	2.5	1300	125	0.5	0.25	3	805	5100	1	0.1
42101	366718	6823372	50	1	1	70	0.1	0.5	0.1	3900	0.25	0.25	4	2.5	50	2.5	2.5	1100	120	0.5	0.25	3.5	795	6700	1	0.1
42102	366878	6823252	2.5	1	1	80	0.1	0.5	0.1	3800	0.25	0.25	6	2.5	2.5	2.5	2.5	800	50	0.5	0.25	5	660	4500	1	0.1
42103	367038	6823132	100	1	1	60	0.1	0.5	0.1	3500	0.25	0.25	3.5	2.5	100	2.5	3	800	61	0.5	0.25	0.5	505	4400	1	0.1
42104	367894	6825229	2.5	1	1	60	0.1	0.5	0.1	2400	0.25	0.25	5.5	2.5	2.5	2.5	2.5	900	83	0.5	0.25	8	940	6900	1	0.1
42105	366878	6823252	2.5	1	1	85	0.1	0.5	0.1	4300	0.25	0.25	6.5	2.5	2.5	2.5	2	900	55	0.5	0.25	5.5	760	5400	1	0.1

BIO_SMPL Number	NA ppm	SR ppm	TL ppm	TI ppm	W ppm	U ppm	V ppm	ZN ppm	HG ppb	CERTIF Number	SPECIES	Number Rings	Diam mm
42093	50	26	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	14	14
42094	50	18.5	2.5	2.5	1	2.5	0.25	79	2.5	A9619118	SPRUCE	27	20
42095	50	10.5	2.5	2.5	1	2.5	0.25	53	2.5	A9619118	SPRUCE	41	26
42096	50	19	2.5	2.5	1	2.5	0.25	48	5	A9619118	SPRUCE	34	18
42097	50	29	2.5	2.5	1	2.5	0.25	63	5	A9619118	SPRUCE	17	16
42098	50	27	2.5	2.5	1	2.5	0.25	69	5	A9619118	SPRUCE	20	16
42099	50	21	2.5	2.5	1	2.5	0.25	71	2.5	A9619118	SPRUCE	25	15
42100	50	24	2.5	2.5	1	2.5	0.25	58	2.5	A9619118	SPRUCE	16	15
42101	50	19	2.5	2.5	1	2.5	0.25	47	2.5	A9619118	SPRUCE	13	11
42102	50	32	2.5	2.5	1	2.5	0.25	51	5	A9619118	SPRUCE	13	25
42103	50	35	2.5	2.5	1	2.5	0.25	55	2.5	A9619118	SPRUCE	35	26
42104	50	17	2.5	2.5	1	2.5	0.25	45	2.5	A9619118	SPRUCE	8	29
42105	50	36	2.5	2.5	1	2.5	0.25	59	2.5	A9619118	SPRUCE	13	25

APPENDIX B

BIOGEOCHEMISTRY STATISTICS

	KENNECOTT CANADA EXPLORATION INC. CYR PROPERTY, WATSON LAKE M.D., YUKON TERRITORY, NTS 105G/11&1													
	1996 BIOGEOCHEMISTRY DATA; SAMPLE STATISTICS													
STATISTICS	***AL ppm***	***SB ppm***	***AS ppm***	***BA ppm***	***BE ppm***	***BI ppm***	***CD ppm***	***CA ppm***	***CR ppm***	***CO ppm***	***CU ppm***	***GA ppm***	***FE ppm***	***LA ppm***
Mean	40.70	1.00	1.00	66.34	0.10	0.51	0.10	3562.79	0.28	0.25	4.72	2.50	39.04	2.50
Standard Error	5.07	0.00	0.00	3.58	0.00	0.01	0.00	93.91	0.01	0.00	0.15	0.00	4.92	0.00
Median	50.00	1.00	1.00	60.00	0.10	0.50	0.10	3600.00	0.25	0.25	4.50	2.50	26.25	2.50
Mode	2.50	1.00	1.00	60.00	0.10	0.50	0.10	3600.00	0.25	0.25	3.50	2.50	2.50	2.50
Standard Deviation	47.01	0.00	0.00	33.24	0.00	0.08	0.00	870.91	0.08	0.00	1.38	0.00	45.59	0.00
Sample Variance	2209.51	0.00	0.00	1104.96	0.00	0.01	0.00	758481.53	0.01	0.00	1.90	0.00	2078.70	0.00
Kurtosis	1.52	#DIV/0!	#DIV/0!	1.19	-2.05	40.40	-2.05	0.30	5.03	#DIV/0!	0.44	#DIV/0!	0.54	#DIV/0!
Skewness	1.39	#DIV/0!	#DIV/0!	1.02	1.02	6.44	1.02	-0.18	2.63	#DIV/0!	0.94	#DIV/0!	1.18	#DIV/0!
Range	197.50	0.00	0.00	155.00	0.00	0.50	0.00	4450.00	0.25	0.00	5.50	0.00	147.50	0.00
Minimum	2.50	1.00	1.00	10.00	0.10	0.50	0.10	1250.00	0.25	0.25	3.00	2.50	2.50	2.50
Maximum	200.00	1.00	1.00	165.00	0.10	1.00	0.10	5700.00	0.50	0.25	8.50	2.50	150.00	2.50
Sum	3500.00	86.00	86.00	5705.00	8.60	44.00	8.60	306400.00	23.75	21.50	406.00	215.00	3357.50	215.00
Count	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
>90th Percentile	150.00			100.00				4800.00			7.00		150.00	
Confidence Level(95.0%)	10.08	0.00	0.00	7.13	0.00	0.02	0.00	186.72	0.02	0.00	0.30	0.00	9.78	0.00

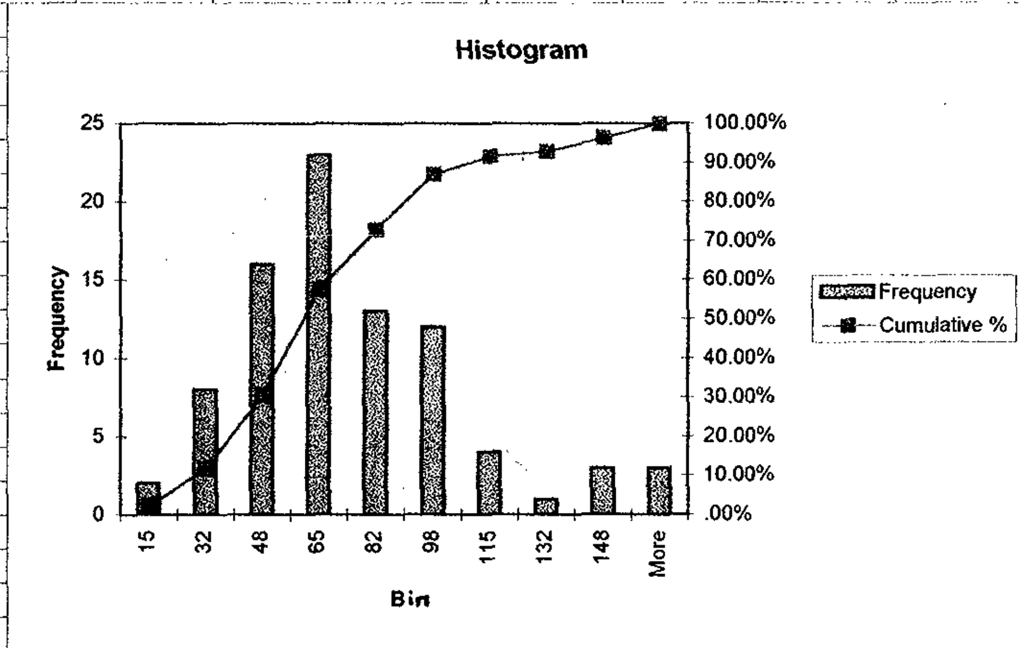
	2												
STATISTICS	PB ppm	MG ppm	MN ppm	HG ppm	MO ppm	NI ppm	P ppm	K ppm	SC ppm	AG ppm	NA ppm	SR ppm	TL ppm
Mean	1.74	1070.93	123.30	0.50	0.25	3.51	985.23	5082.56	1.00	0.10	38.43	18.14	2.50
Standard Error	0.14	31.27	9.42	0.00	0.00	0.35	42.61	150.01	0.00	0.00	2.36	0.77	0.00
Median	2.00	1050.00	100.00	0.50	0.25	3.00	865.00	4700.00	1.00	0.10	50.00	17.00	2.50
Mode	0.25	1050.00	125.00	0.50	0.25	0.50	695.00	4500.00	1.00	0.10	50.00	17.00	2.50
Standard Deviation	1.27	289.98	87.34	0.00	0.00	3.23	395.14	1391.16	0.00	0.00	21.86	7.18	0.00
Sample Variance	1.61	84086.18	7628.40	0.00	0.00	10.43	156133.47	1935339.26	0.00	0.00	477.95	51.60	0.00
Kurtosis	-1.61	0.23	6.26	#DIV/0!	#DIV/0!	8.90	1.84	3.29	#DIV/0!	-2.05	-0.23	0.19	#DIV/0!
Skewness	0.07	0.70	2.27	#DIV/0!	#DIV/0!	2.20	1.30	1.28	#DIV/0!	1.02	-0.79	0.55	#DIV/0!
Range	3.75	1400.00	477.00	0.00	0.00	20.75	2070.00	8300.00	0.00	0.00	97.50	33.00	0.00
Minimum	0.25	550.00	23.00	0.50	0.25	0.25	450.00	2900.00	1.00	0.10	2.50	4.00	2.50
Maximum	4.00	1950.00	500.00	0.50	0.25	21.00	2520.00	11200.00	1.00	0.10	100.00	37.00	2.50
Sum	149.75	92100.00	10604.00	43.00	21.50	301.75	84730.00	437100.00	86.00	8.60	3305.00	1560.00	215.00
Count	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00	86.00
>90th Percentile	3.00	1500.00	240.00			8.00	1625.00	6900.00				28.00	
Confidence Level(95.0%)	0.27	62.17	18.73	0.00	0.00	0.69	84.72	298.27	0.00	0.00	4.69	1.54	0.00

STATISTICS	Tl ppm	W ppm	U ppm	V ppm	ZN ppm	HG ppb
Mean	2.50	1.00	2.50	0.25	50.60	3.66
Standard Error	0.00	0.00	0.00	0.00	1.43	0.23
Median	2.50	1.00	2.50	0.25	51.00	2.50
Mode	2.50	1.00	2.50	0.25	48.00	2.50
Standard Deviation	0.00	0.00	0.00	0.00	13.26	2.09
Sample Variance	0.00	0.00	0.00	0.00	175.85	4.37
Kurtosis	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.63	11.15
Skewness	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	-0.20	2.90
Range	0.00	0.00	0.00	0.00	64.50	12.50
Minimum	2.50	1.00	2.50	0.25	17.50	2.50
Maximum	2.50	1.00	2.50	0.25	82.00	15.00
Sum	215.00	86.00	215.00	21.50	4351.50	315.00
Count	86.00	86.00	86.00	86.00	86.00	86.00
>90th Percentile					68.00	10.00
Confidence Level(95.0%)	0.00	0.00	0.00	0.00	2.84	0.45

CYR Property(NTS 105G/11&12), Kennecott Canada Inc.														
1996 Biogeochemistry Samples; Correlation Matrix														
	Al ppm	*Ba ppm*	*Ca ppm*	*Cu ppm*	*Fe ppm*	*Pb ppm*	*Mg ppm*	*Mn ppm*	*Ni ppm*	*P ppm*	*K ppm*	*Sr ppm*	*Zn ppm*	*Hg ppm*
Al ppm	1.00													
Ba ppm	0.00	1.00												
Ca ppm	0.22	0.43	1.00											
Cu ppm	-0.41	0.14	0.05	1.00										
Fe ppm	0.74	0.06	0.48	-0.32	1.00									
Pb ppm	0.44	-0.07	0.19	-0.18	0.46	1.00								
Mg ppm	-0.20	0.01	-0.11	0.36	-0.24	0.07	1.00							
Mn ppm	0.51	-0.17	-0.21	-0.26	0.09	0.03	0.09	1.00						
Ni ppm	-0.20	0.10	-0.25	0.48	-0.24	0.04	0.37	-0.02	1.00					
P ppm	-0.22	-0.17	-0.49	0.40	-0.55	-0.45	0.43	0.38	0.33	1.00				
K ppm	-0.29	-0.10	-0.37	0.38	-0.59	-0.22	0.25	0.13	0.28	0.71	1.00			
Sr ppm	-0.02	0.56	0.54	0.22	0.17	0.13	-0.05	-0.35	0.03	-0.40	-0.15	1.00		
Zn ppm	-0.09	0.32	0.60	0.51	0.30	0.05	0.06	-0.43	0.08	-0.20	-0.13	0.50	1.00	
Hg ppm	0.14	0.11	0.25	0.01	0.22	-0.12	-0.18	0.00	-0.17	-0.09	-0.12	0.19	0.26	1.00

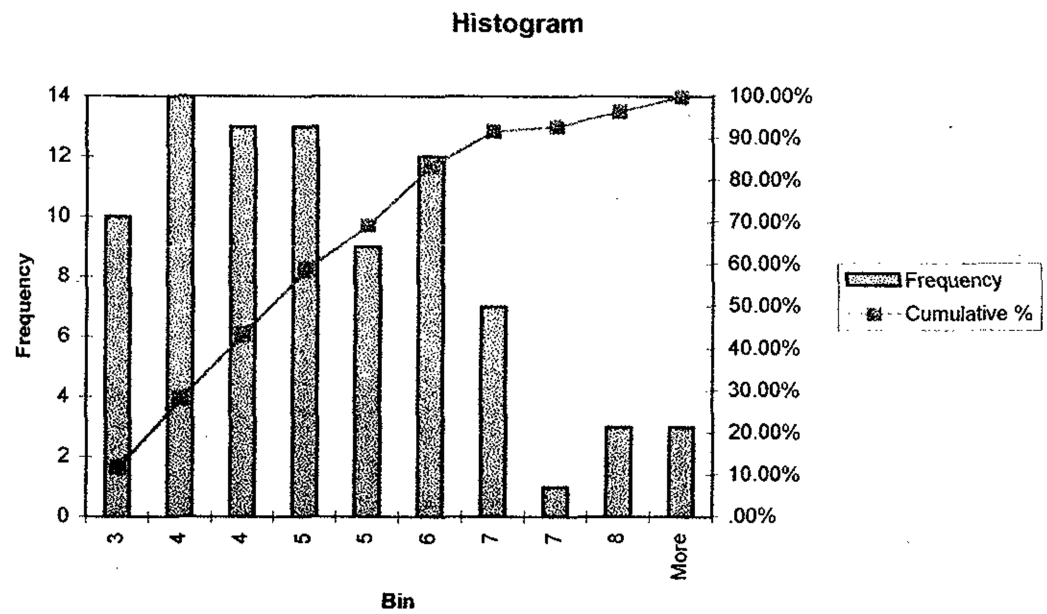
Ba

Bin	*Frequency*	*Cumulative %*
15	2	2.35%
32	8	11.76%
48	16	30.59%
65	23	57.65%
82	13	72.94%
98	12	87.06%
115	4	91.76%
132	1	92.94%
148	3	96.47%
More	3	100.00%



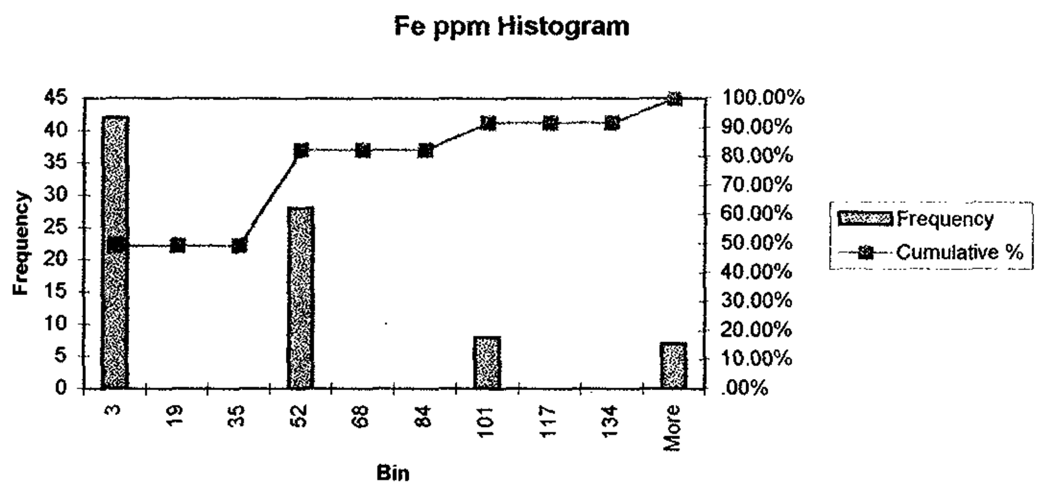
Cu

Bin	Frequency	Cumulative %
3	10	11.76%
4	14	28.24%
4	13	43.53%
5	13	58.82%
5	9	69.41%
6	12	83.53%
7	7	91.76%
7	1	92.94%
8	3	96.47%
More	3	100.00%



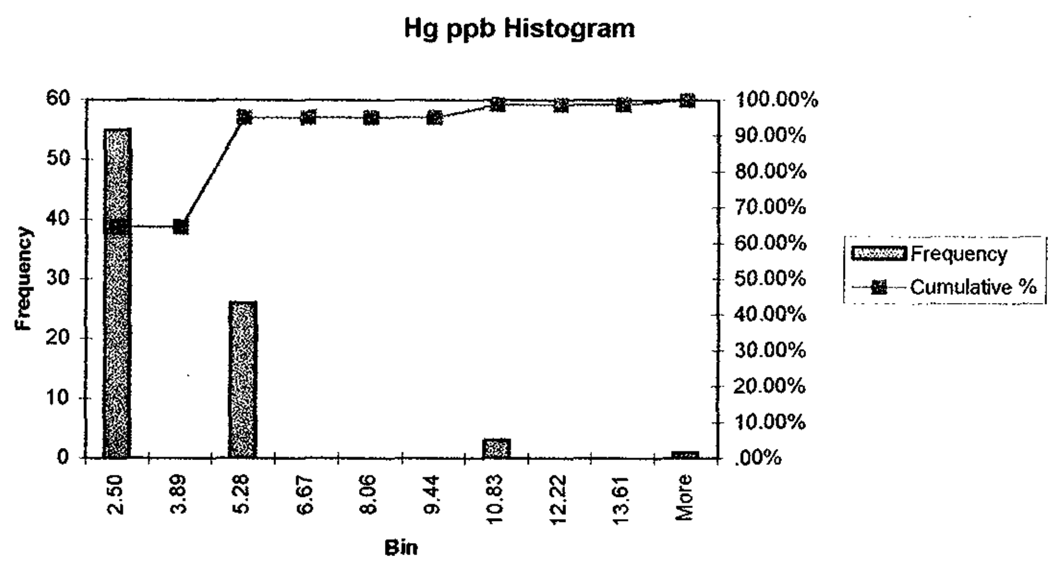
Fe ppm

Bin	*Frequency*	*umulative %*
3	42	49.41%
19	0	49.41%
35	0	49.41%
52	28	82.35%
68	0	82.35%
84	0	82.35%
101	8	91.76%
117	0	91.76%
134	0	91.76%
More	7	100.00%



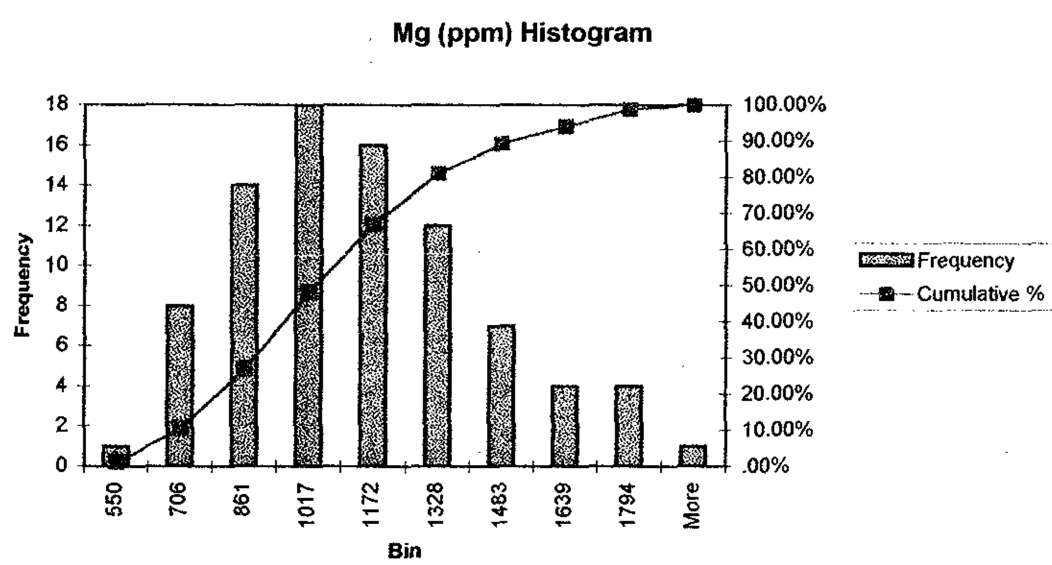
Hg ppb

Bin	*Frequency*	*Cumulative %*
2.50	55	64.71%
3.89	0	64.71%
5.28	26	95.29%
6.67	0	95.29%
8.06	0	95.29%
9.44	0	95.29%
10.83	3	98.82%
12.22	0	98.82%
13.61	0	98.82%
More	1	100.00%



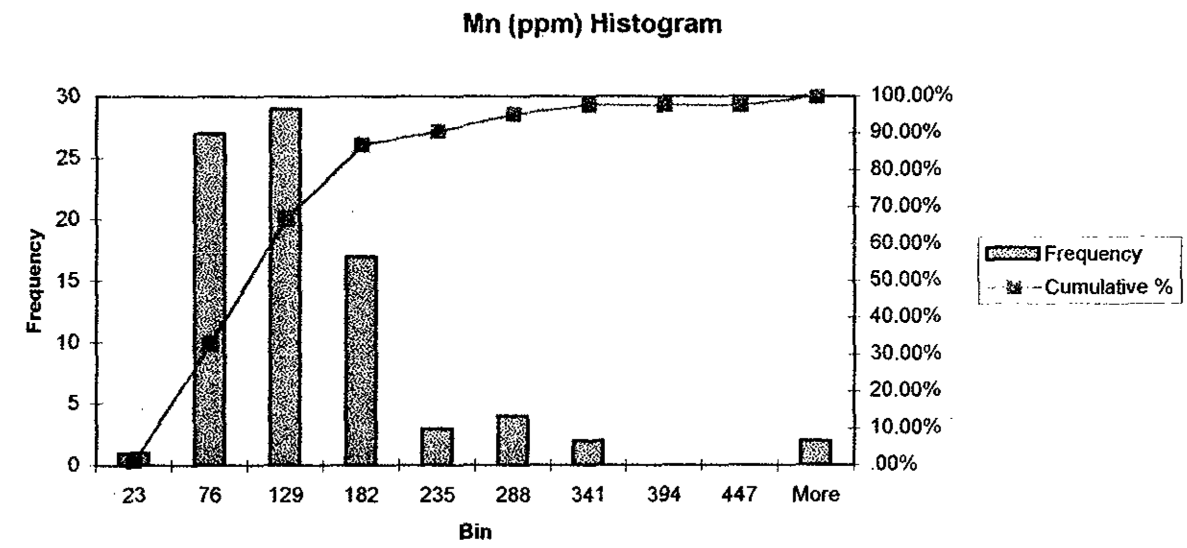
Mg ppm

Bin	*Frequency*	*umulative %*
550	1	1.18%
706	8	10.59%
861	14	27.06%
1017	18	48.24%
1172	16	67.06%
1328	12	81.18%
1483	7	89.41%
1639	4	94.12%
1794	4	98.82%
More	1	100.00%



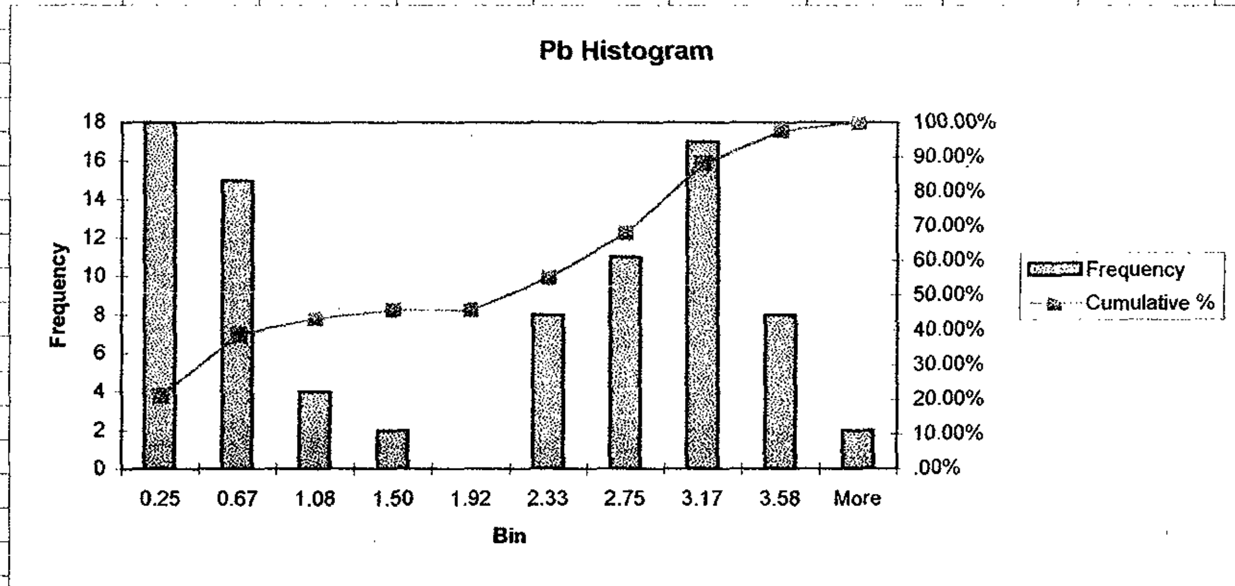
Mn ppm

Bin	*Frequency*	*umulative %*
23	1	1.18%
76	27	32.94%
129	29	67.06%
182	17	87.06%
235	3	90.59%
288	4	95.29%
341	2	97.65%
394	0	97.65%
447	0	97.65%
More	2	100.00%



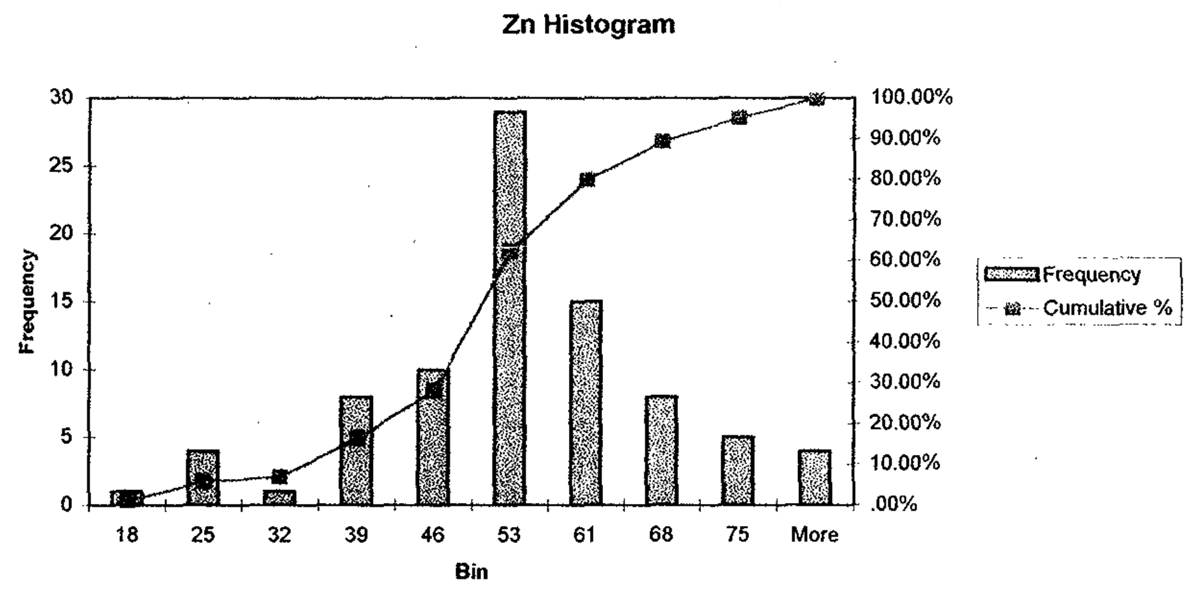
Pb

Bin	*Frequency*	*Cumulative %*
0.25	18	21.18%
0.67	15	38.82%
1.08	4	43.53%
1.50	2	45.88%
1.92	0	45.88%
2.33	8	55.29%
2.75	11	68.24%
3.17	17	88.24%
3.58	8	97.65%
More	2	100.00%



Zn

Bin	*Frequency*	*Cumulative %*
18	1	1.18%
25	4	5.88%
32	1	7.06%
39	8	16.47%
46	10	28.24%
53	29	62.35%
61	15	80.00%
68	8	89.41%
75	5	95.29%
More	4	100.00%



APPENDIX C

PHOTOGRAPHS

Insert

PG
58
TO
60

Plate 1. Tree top sampling, Cyr Property May 8, 1997.

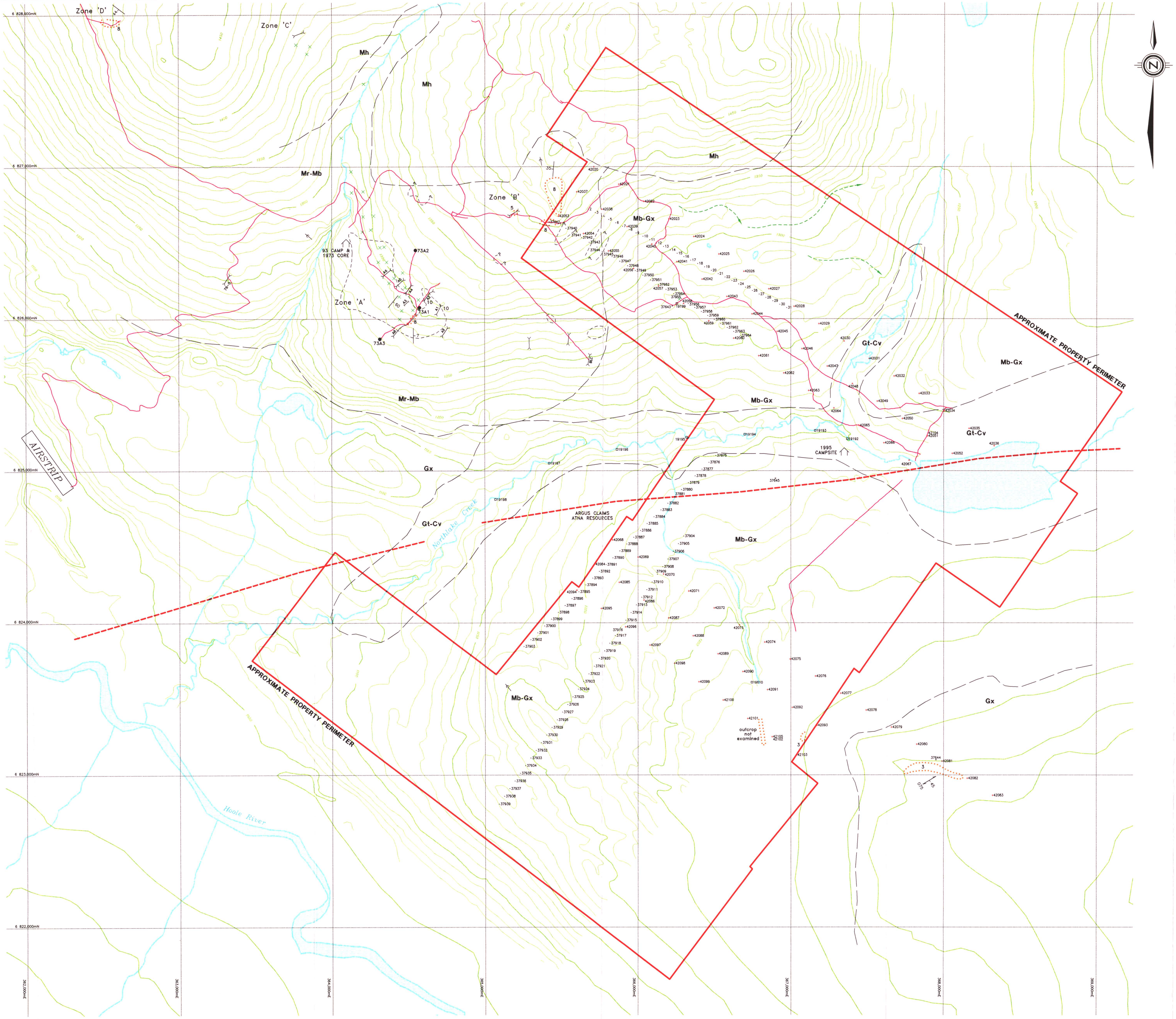
Plate 2. 20 year old Black Spruce tree top branch.

Plate 3. Spruce (Black?) tree top.

Plate 4. Cones, top=Spruce, bottom=Balsam Fir.

Plate 5. Balsam Fir tree top.

Plate 6. Top = black spruce branch, bottom = balsam fir branch.



LEGEND

SURFICAL GEOLOGY

Cv	COLLUVIAL VENEER
Gt	GLACIOFLUVIAL TERRACE
Gx	GLACIOFLUVIAL COMPLEX
Mb	MORAINE BLANKET (TILL)
Mv	MORAINE VENEER (TILL)
Mh	HUMMOCKY MORAINE
R	BEDROCK

BEDROCK GEOLOGY*

10	PHYLLITE
8	LIMESTONE
5	QUARTZITE
3	CHLORITE PHYLLITE

SYMBOL LEGEND

	GEOLOGICAL CONTACT
	>300 ppm Zn in SOIL (1993)
	MINERALIZED FLOAT (>5% Zn)
	FAULT
	OUTCROP DELIMIT
	MELT WATER CHANNEL
	ICE DIRECTION
73A3	1973 DIAMOND DRILL HOLE COLLAR & NUMBER
A9	BULLDOZER TRENCH and TRENCH NUMBER
45	BEDDING (Strike & Dip)
45	FOLIATION (Strike & Dip)
·37955	1995 SOIL SAMPLE SITE & NUMBER
□19199	1995 STREAM SEDIMENT SAMPLE SITE & NUMBER
×37644	1995 ROCK SAMPLE SITE & NUMBER
+42083	1996 BIOGEOCHEMICAL SAMPLE SITE & NUMBER
	CLAIM PERIMETER
	GPS (NOT DIFFERENTIALLY CORRECTED) SURVEYED CLAIM POST

* Legend derived from Archer (1973)

Surfical geology modified from J. Bond (in Hulstein 1996 – Appendix A)

PROFESSIONAL PROVINCE OF R. W. HULSTEIN BRITISH COLUMBIA GEOSCIENTIST

scale: 10,000

0 100 200 300 500

kilometres

09

Kennecott Canada Exploration Inc.
Vancouver

CYR PROPERTY (1)

COMPILATION AND SAMPLE LOCATION MAP

YUKON TERRITORY, CANADA

NTS:	Projection: UTM	Drawn by: AJL
Date: 23/04/97	Author: RH	Figure 4
File: 7CYGE010	Scale: 1:10,000	