

093 846

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

DOT PROPERTY  
DOT 3-34,37-68 CLAIMS



WATSON LAKE MINING DISTRICT  
YUKON TERRITORY, CANADA  
NTS MAP SHEET 105G/13

Centred at Latitude: 61° 50' 06"N; Longitude: 131° 38' 00"W  
Work Performed: June 29 - July 13, 1997

FOR:

PACIFIC BAY MINERALS LTD.  
#908-700 West Pender Street  
Vancouver, B.C. V6C 1G8

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This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
reproduction work in the amount  
of \$ 19,200.00.

for *M. B. B.*

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

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**SUMMARY:**

The DOT Property comprises 64 claims located approximately 42 km east-southeast of Ross River, Yukon in the Watson Lake Mining District. The claims were staked in 1994 to protect an area of potentially favourable stratigraphy similar to that hosting Cominco's Kudz Ze Kayah polymetallic volcanogenic massive sulphide deposit located 65 km to the southeast. Access to the DOT property is provided via helicopter from the Mink Creek airstrip on the Robert Campbell Highway 19 km to the southeast or directly from Ross River.

This report presents the results of a helicopter supported geological and geochemical soil sampling survey conducted during June - July, 1997 by personnel from Pacific Bay Minerals Ltd.

The property is located within the Finlayson Lake map area (104/G) in the Yukon Plateau physiographic region of the northern Cordillera. The claims cover an area of moderate relief with rare outcrop exposures occurring only on ridges and domed peaks. Terrain is masked primarily by glaciofluvial overburden and a growth of forest and low brush.

The claims are underlain by undifferentiated pre-Mississippian to Mississippian layered mafic to felsic metavolcanic and metasedimentary schistose and phyllitic rocks belonging to the Middle Unit of the Paleozoic Layered Metamorphic Sequence of the Yukon-Tanana Terrane.

A review of all available information indicates that the area has experienced little or no prospecting. Data documented from the 1997 geological and geochemical survey indicates that potentially favourable base metal/precious metal mineralized targets exist within the claims.

The 1997 exploration program comprised geological mapping and grid controlled soil sampling with the objective of evaluating the property's economic potential and following up on geophysical anomalies delineated by Cominco's airborne and ground geophysical surveys. A total of 235 soil samples and one rock sample were collected from 11.9 km of flagged grid lines.

Areas characterized by scattered elevated to strongly anomalous base metal-in-soil values, with locally coincident silver and gold credits, may be found in the east-central portion of the property in the western half of the soil grid. Soil geochemistry documented values for Zn (up to 829 ppm), Cu (up to 286 ppm), Pb (up to 546 ppm), Ag (up to 10.8 ppm), Au (up to 33 ppb) and Mo (up to 33 ppm).

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Mapping suggests that potentially favourable bedrock exists below a thin overburden cover and this stratigraphy may be economically mineralized in base and precious metals mineralization. The 1997 program has identified prospective mineral targets and a follow-up program consisting of detailed mapping, prospecting, close-spaced soil sampling, trenching and possible diamond drilling is recommended.

**INTRODUCTION:**

This report discusses the exploration procedures and results of a helicopter supported geological and geochemical program conducted by Pacific Bay Minerals Ltd. on the DOT property. Field work was performed by a two member crew during the period of June 29 - July 13, 1997. Personnel operated out of a "fly camp" situated at the 1311 metre (4,300') elevation on the DOT 24 claim.

The objective of the 1997 program was to evaluate the property's economic potential through follow-up reconnaissance geological mapping and prospecting on all claims and soil sampling in the eastern portion of the property. Cominco personnel performed 1:10,000 scale geological mapping, prospecting and a soil geochemical survey during July, 1994 to follow-up airborne EM/MAG surveys completed over the property in early 1994. An aeromagnetic anomaly was delineated which was believed to coincide with a magnetic intermediate/mafic intrusion. AEM conductors are believed related to structures and/or carbonaceous sediments.

The 1997 exploration program included geological mapping, prospecting and grid controlled soil sampling. A total of 235 soil samples and one rock sample were collected from 11.9 km of flagged, blazed and picketed grid lines. Geological and geochemical data were compiled on 1:5,000 scale contour maps prepared from 1:50,000 scale NTS topographic maps and all final data were produced on 1:5,000 scale hand drafted maps.

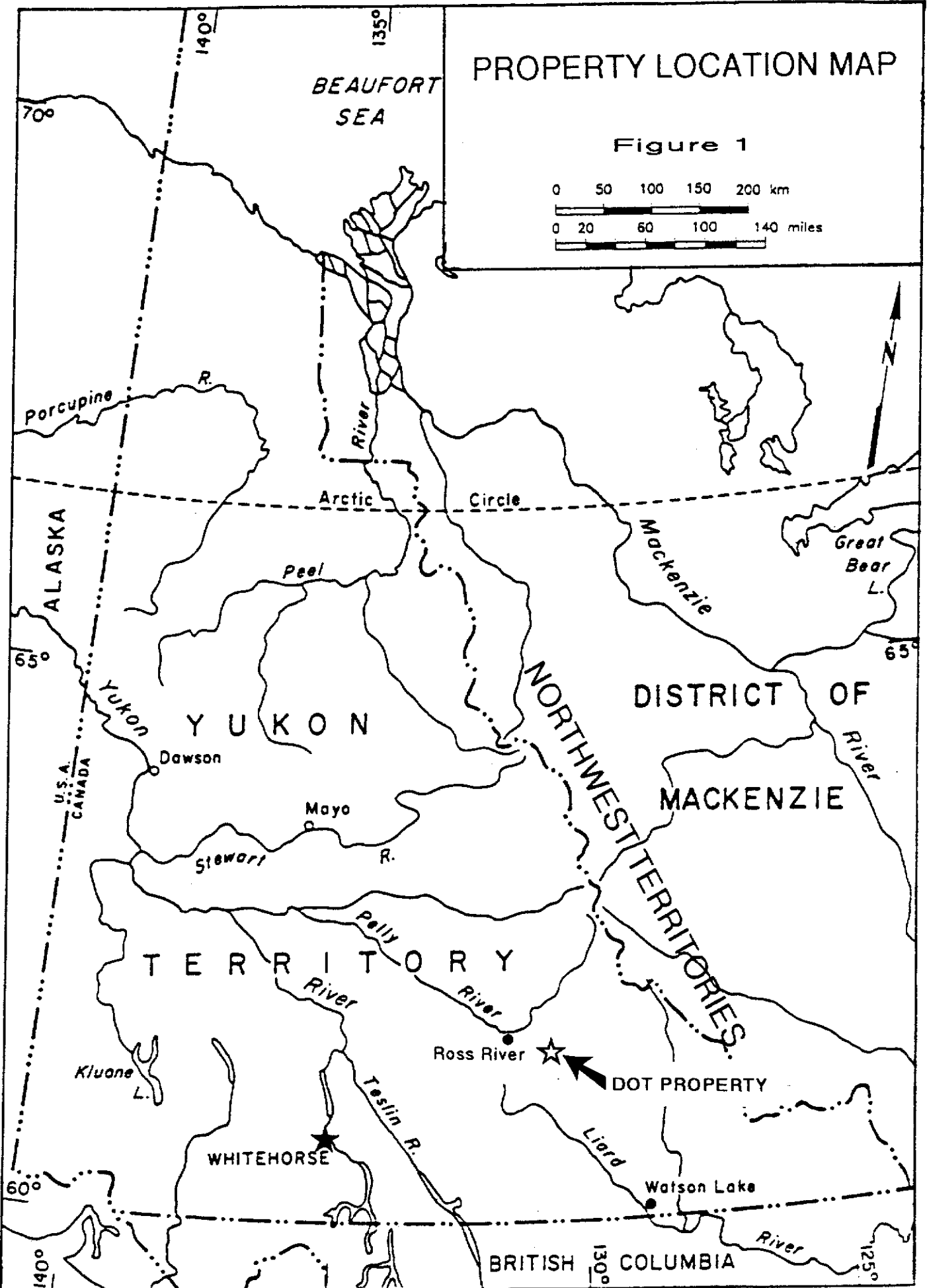
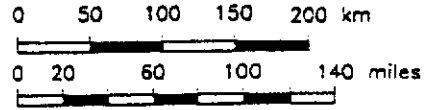
All geochemical samples were shipped to ACME Analytical Labs in Vancouver, B.C. for geochemical analysis utilizing 30-element ICP method and gold analysis by wet extraction followed with analysis by graphite furnace AA finish. Analytical procedures are described in Appendix III and analytical results are presented in Appendix IV.

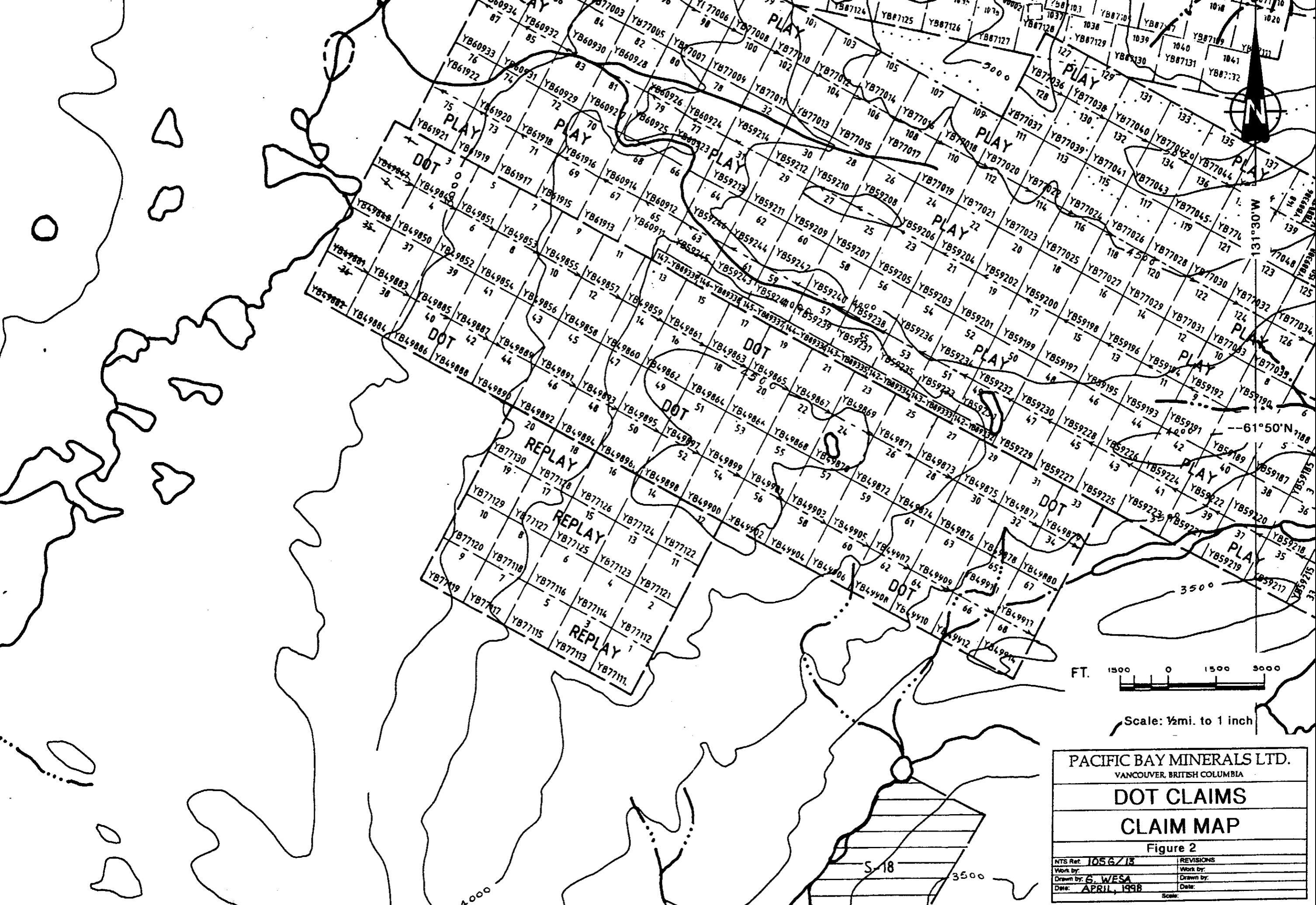
**Location and Access:**

The DOT property is located in the southeastern Yukon Territory approximately 42 km east-southeast of Ross River and 10 km north of the Pelly River and Robert Campbell Highway (Hwy. #4). The claims are situated within NTS map sheet 105G/13 and are centred at 61° 50' 06" North latitude and 131° 38' 00" West longitude. Access to the property is provided via helicopter from the Mink Creek airstrip located 19 km southeast on the Robert Campbell Highway. The claims may also be directly accessed via helicopter from Ross River (Figure 1).

# PROPERTY LOCATION MAP

Figure 1





FT. 1500 0 1500 3000

Scale: 1/2 mi. to 1 inch

|                             |           |
|-----------------------------|-----------|
| PACIFIC BAY MINERALS LTD.   |           |
| VANCOUVER, BRITISH COLUMBIA |           |
| <b>DOT CLAIMS</b>           |           |
| <b>CLAIM MAP</b>            |           |
| Figure 2                    |           |
| NTS Ref: 1056/13            | REVISIONS |
| Work by:                    | Work by:  |
| Drawn by: G. WESA           | Drawn by: |
| Date: APRIL, 1998           | Date:     |
| Scale:                      |           |

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**Physiography and Climate:**

The property is located within the Yukon Plateau physiographic region of the northern Cordillera. Elevations in the area range from 915 metres (3000') in valley bottoms to 1,311 metres (4300'). The property slopes moderately to the west, east and south from a central height of land; drainages flow to the west, east and southeast from this domed peak.

During the Pleistocene Epoch, ice covered the entire area except for the tops of the highest peaks. McConnell glaciation covered the area during the period from 26,500 to 10,000 years ago. Glaciation has produced isolated, rounded mountains; valleys are occupied by abundant small lakes connected by a network of streams. Valley bottoms are typically underlain with glaciofluvial sediments exceeding five metres in thickness.

The terrain is covered with a thick growth of "buckbrush", alder and dwarf birch up to 4-5 metres in height. Slopes also support scattered black spruce and balsam fir. Tree line occurs at roughly 1400 (4,592') to 1500 metres (4,875'). Outcrop accounts for <10% and exists only on ridges and rounded peaks.

Weather records are unavailable for the area; however, general climatic data indicates that precipitation is light, averaging 50cm per annum, and falls mostly as rain during summer months. Snow cover averages approximately 60cm by late winter. The climate is continental type with warm summers and long, cold winters. Annual mean daily temperature is -5°C with ranges from lows of -30° to -50°C in January to 10° to 20°C in July. Permafrost at this latitude is discontinuous but widespread. It is rarely possible to commence surface geological work before the end of June and difficult to continue past September.

**Property Status and Ownership:**

The DOT property (Figure 2) consists of 64 contiguous claims located within the Watson Lake Mining District. The claims were staked to protect airborne geophysical targets identified during a Cominco survey conducted in early 1994. The claims are currently 100% owned by Cominco; however, an option agreement granted by Cominco to Pacific Bay Minerals permits the latter the right to acquire 60% interest upon completion of a specified work program. Relevant claim data are tabulated in Table 1 below:

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**TABLE 1: DOT PROPERTY - CLAIM STATUS**

| <b><i>CLAIM NAME</i></b> | <b><i># OF CLAIMS</i></b> | <b><i>GRANT#</i></b> | <b><i>RECORDING DATE</i></b> | <b><i>NEW EXPIRY DATE</i></b> |
|--------------------------|---------------------------|----------------------|------------------------------|-------------------------------|
| DOT                      | 3-34                      | YB49849 -<br>YB49880 | 1994/05/15                   | 2001/05/15                    |
| DOT                      | 37-68                     | YB49883 -<br>YB49914 | 1994/05/15                   | 2001/05/15                    |

**HISTORY OF EXPLORATION:**

**Regional History:**

The area was first mapped by Wheeler et al. (1960). Detailed mapping and re-interpretation was subsequently carried out by personnel of the Geological Survey of Canada (Tempelman-Kluit et al, 1975, 1976; Gordey and Tempelman-Kluit, 1976; Tempelman-Kluit, 1977; Gordey, 1977).

Finlayson Lake area has experienced reconnaissance exploration by numerous companies at various times since the mid-1960's following discovery and development of the Faro zinc-lead-silver deposits.

Beginning in the early 1970's up to the early 1980's, several companies conducted exploration programs in the area for SEDEX mineralization (HOO) VMS mineralization (PY, FYRE, FETISH, PAK, BEV) and tungsten-bearing skarns (BOOT). In 1973, the FETISH claims were staked by Finlayson Joint Venture over a target 25 km east of the Kudz Ze Kayah deposit. This target exhibited similar geology to Kudz Ze Kayah and was tested by two shallow drill holes. The PY claims were staked in 1975 by Cyprus Anvil Mining Corporation 40 km southeast of Kudz Ze Kayah.

In 1985, J.K. Mortensen and G.A. Jilson published the results of geological mapping conducted in the late 1970's and early 1980's. Their interpretation forms the basis of current knowledge of the regional geology. Mortensen and Jilson recognized the presence of a thick package of Devonian-Mississippian metamorphosed felsic and mafic volcanic rocks in carbonaceous metasediments in the pericratonic Yukon-Tanana Terrane.

In 1988, the G.S.C. released Open File 1648 causing many claims to be staked over gold and arsenic stream sediment anomalies. Many claims were located over allochthonous ophiolitic rocks that appear associated with thrust sheets that border the ultramafic succession.

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Current exploration activity in the Finlayson Lake area commenced in late 1993 when Cominco conducted soil geochemical and geophysical surveys in the headwaters of a drainage in which government regional stream sediment survey results delineated strongly anomalous lead, zinc and copper values. Initial Cominco surveys outlined approximately coincident soil geochemical anomalies, electromagnetic conductors and positive magnetic anomalies. The first hole drilled in April, 1994 immediately intersected the deposit. Cominco followed with regional-scale, helicopter-borne magnetic and electromagnetic surveys, diamond drilling and regional staking programs. Exploration and development continued in 1995 with construction of a 23 km access road connecting the Robert Campbell Highway to the discovery site. Published reserves to the end of 1997 are quoted at 13 million tons grading 5.5% Zn, 1.0% Cu, 1.3% Pb, 12 g/t Ag and 1.2 g/t Au.

In 1996-97, D.C. Murphy of the Yukon Geology Program, Department of Indian Affairs and Northern Development conducted detailed 1:50,000 scale geological mapping of the Cross Lakes map sheet (NTS 105 G/7). Cominco's Kudz Ze Kayah massive sulphide deposit occurs in the northeastern corner of this map sheet. Results of this work were released in November, 1997.

**Property History:**

A review of government Assessment Report Archives and Archer, Cathro Mineral Inventory files indicates that no work is recorded within the property boundary area previous to 1994. The DOT claims were staked by Cominco in May, 1994 to protect airborne geophysical anomalies. This initial work was followed up in the summer of 1994 with geological mapping, prospecting and soil geochemistry.

**1994 Exploration Program:**

On July 18, 1994, Cominco personnel conducted geological mapping, prospecting and soil sampling whereby a total of 67 soil samples and 2 rock samples were collected. It was concluded that aeromagnetic anomalies coincide with equigranular, medium-grained pyroxene-feldspar intrusions containing disseminated, fine-grained magnetite and trace pyrrhotite. Quartz-feldspar augen schists discovered at the eastern end of the property were considered significant and believed to represent felsic volcanoclastics.

Soil geochemistry revealed spotty, weak to moderate Cu-Fe-Ba anomalies reflecting a mafic volcanic and sedimentary association, respectively. Weakly elevated Pb values were documented. Moderately anomalous Zn and Cu values were also detected.

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**1997 Exploration Program:**

Approximately 70% of the property was examined through soil sampling, geological mapping and prospecting at a scale of 1:5,000. Less than 10% outcrop occurs within the claims area and is restricted mainly to higher elevations in the eastern half of the property.

A baseline was established at 120° azimuth near the east-central portion of the property and cross-lines were extended in a NE-SW direction. Soil samples were collected from 11.9 km of slope-corrected, flagged, blazed and picketed grid lines established with compass and hip chain. Samples were collected at 50 metre intervals along 100 metre spaced lines.

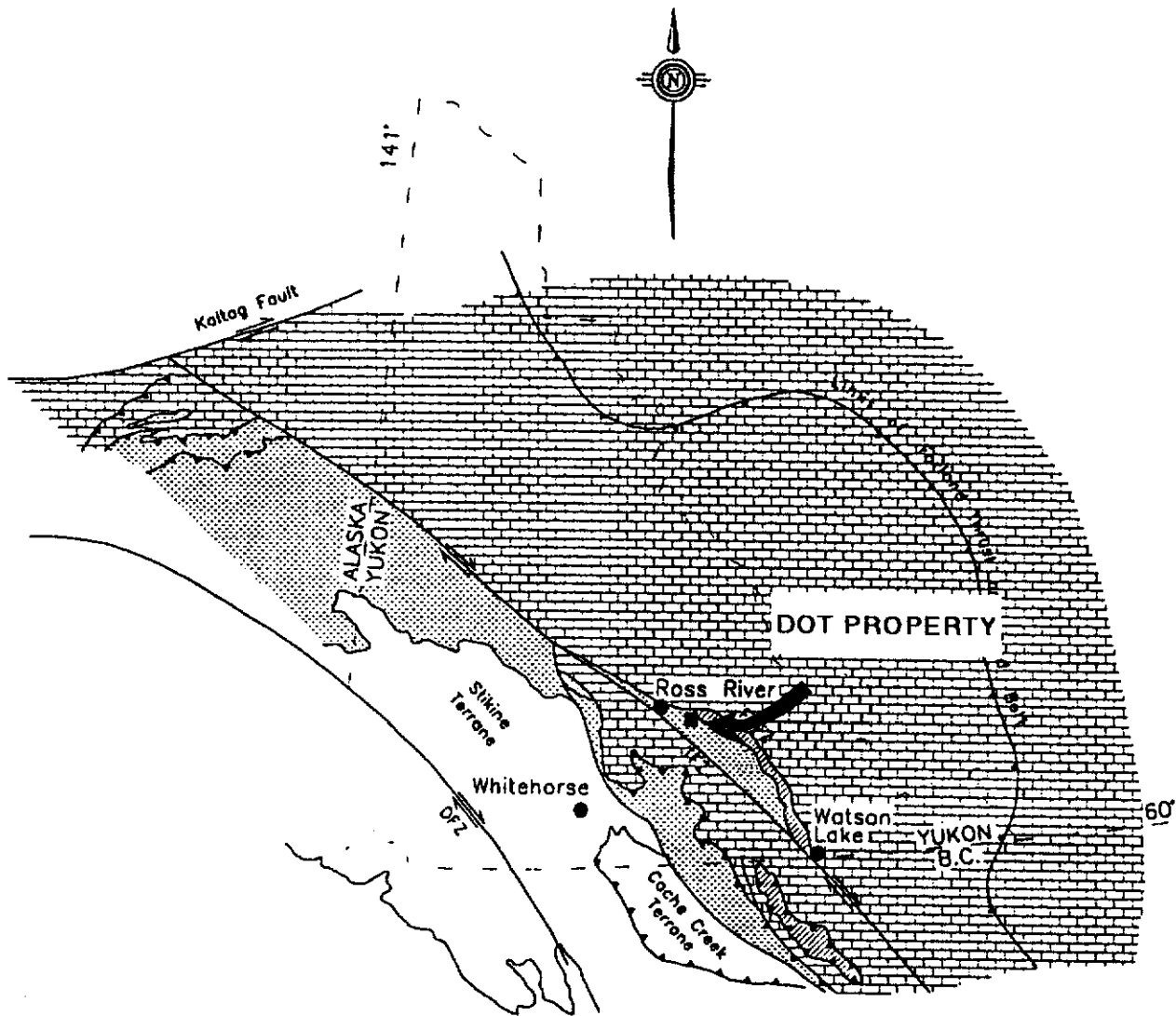
Terrain covered by the soil survey exhibits moderate relief. Narrow streams and local, small ponds and swamps occupy valleys. The majority of soils collected appear to have a residual character and probably reflect development in situ. Glacial material of unknown thickness covers terrain at lower elevations and in swamps and bogs.

**GEOLOGY:**

**Regional Geology:**

A large portion of the western to southeastern Yukon, from the Alaska border to British Columbia, is underlain by a geologically complex terrane composed of polydeformed, dynamothermally metamorphosed sedimentary, volcanic and plutonic rocks. These rocks have been grouped within the Yukon-Tanana and Slide Mountain Terranes and are believed to represent a mid-Paleozoic volcanic-plutonic arc assemblage (Yukon-Tanana Terrane) imbricated with middle and upper Paleozoic ophiolitic sheets (Slide Mountain Terrane); these accreted terranes are believed to be thrust northeastward over the North American Continental Margin (Figure 3). This allochthonous assemblage is preserved in klippen above autochthonous, structurally imbricated Paleozoic and lower Mesozoic North American Shelf strata in the central to southeastern Yukon.

The southwestern side of the allochthon is bounded by the Tintina Fault Zone comprising a series of subparallel transcurrent faults which have produced 450 km of dextral displacement during late Cretaceous and/or early Tertiary times. The northeastern boundary traces a broad arc marking the surface expression of the Finlayson Lake Fault Zone which comprises a complex assemblage of thrust and high angle faults that may, in part, represent a transpressive paleosuture. Both faults juxtapose the allochthonous rocks with autochthonous rocks of the North American miogeocline (Figure 4).



Scale: 1:10,000,000

LEGEND



North American Miogeoclinal Strata



Yukon - Tanana Terrane



Slide Mountain Terrane



Thrust Fault



Strike-Slip Fault, with sense of movement

FLFZ - Finlayson Lake Fault Zone

TFZ - Tintina Fault Zone

DFZ - Denali Fault Zone

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VANCOUVER, BRITISH COLUMBIA

DOT PROJECT

REGIONAL TECTONIC MAP

Figure 3

| NTS Ref  | 1056/13     | REVISIONS |
|----------|-------------|-----------|
| Work by  | G. Wesa     | Work by   |
| Drawn by | G. Wesa     | Drawn by  |
| Date     | March, 1996 | Date      |

Scale

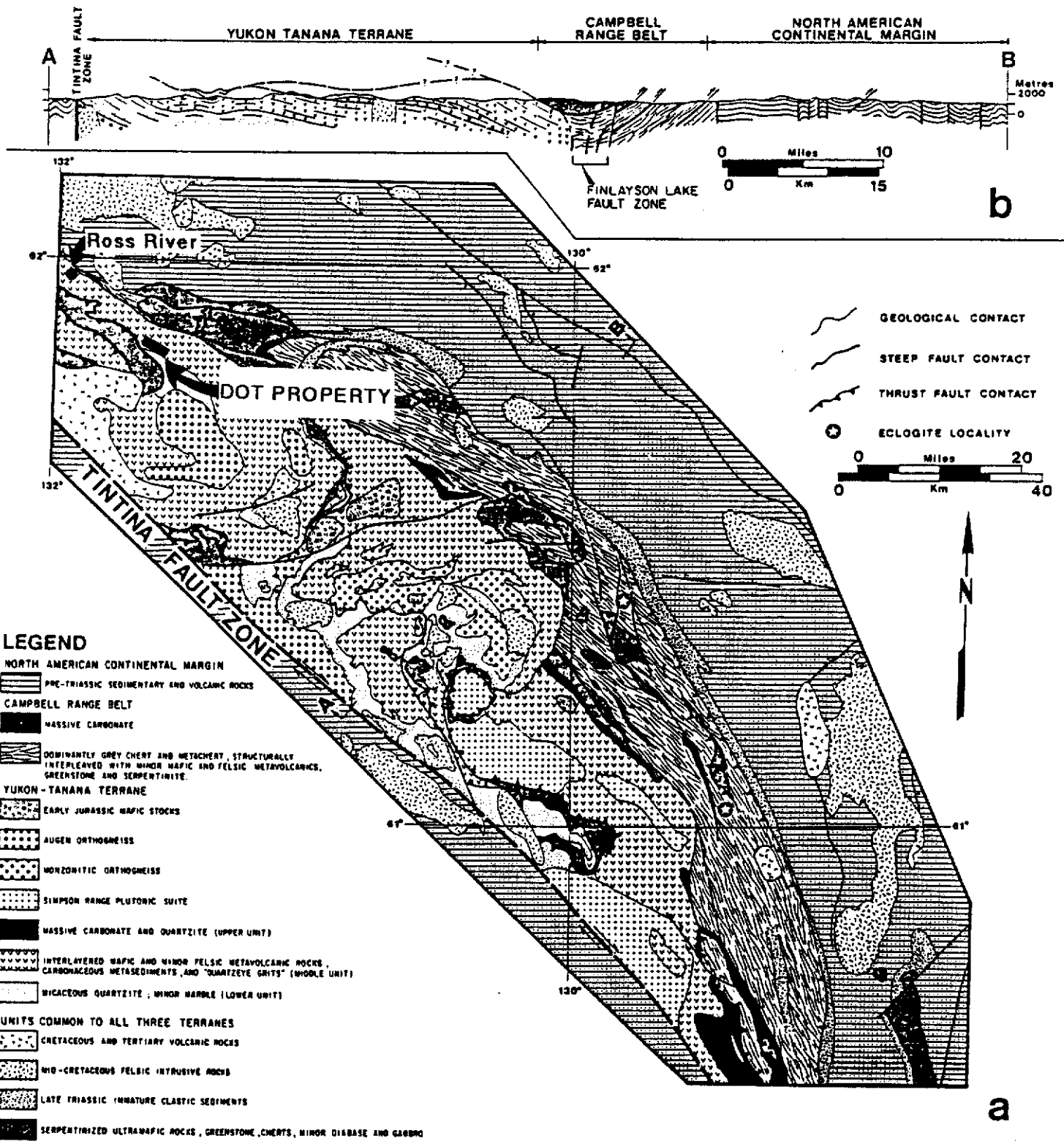


Figure 4: Regional Geology (After Mortensen & Jilson, 1985).

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Rocks of the Yukon-Tanana and Slide Mountain Terranes are believed to have evolved offshore of North America in Paleozoic and early Mesozoic time and were subsequently deformed and metamorphosed in pre-early Jurassic time in a southwest dipping, right-oblique subduction system. These rocks were derived from a basin which formed outboard of present day western North America. This basin was constructed, in part, on oceanic crust locally preserved as ophiolitic assemblages within the Slide Mountain Terrane.

The Yukon-Tanana Terrane has been divided into three structural assemblages by Mortensen (1992):

1) the Nisling Assemblage comprising a structurally lower package of Proterozoic to lower Paleozoic (Cambrian) quartzofeldspathic siliclastic (quartzitic) rocks and marble interpreted as a continental margin sequence; 2) Nasina Assemblage comprising a middle structural package of late Devonian to middle Mississippian carbonaceous quartzite, marble, metasedimentary and mafic to felsic metavolcanic rocks with lesser metaplutonic rocks interpreted as a continental arc system; and 3) an upper package of mid-Permian felsic metavolcanic and metaplutonic rocks (including Klondike Schist) interpreted as either a continental arc or an anorogenic magmatic suite.

Yukon-Tanana rocks are generally more metamorphosed and contain more felsic metaplutonic suites whereas Slide Mountain Terrane is characterized by the presence of obducted ophiolitic rocks. These lithologies comprise massive to pillowed greenstones, basalt, chert and variably serpentized mafic to ultramafic plutonic rocks. This suite of rocks has been interpreted by Tempelman-Kluit (1979) and Mortensen and Jilson (1985) as fragments of a dismembered ophiolite complex. The rocks range in age from late Devonian to early Permian based upon U-Pb zircon dating methods and fossil ages. Fossil collections made in the Anvil district from ophiolitic rocks of the Anvil Range Group (Tempelman-Kluit, 1972) gave latest Pennsylvanian or earliest Permian ages. These ages were recorded from fusulinids and conodonts recovered from a limestone interfingering depositionally with red and green chert and basalt of the Anvil Range assemblage.

The DOT property lies within the 380 km long, up to 60 km wide, Finlayson Allochthon which consists of rocks belonging to Yukon-Tanana and Slide Mountain Terranes.

Six principal lithological packages have been identified within the allochthonous rocks in the Finlayson Lake area (Mortensen and Jilson, 1985). These include two metamorphic assemblages that comprise the bulk of Yukon-Tanana Terrane, a relatively unmetamorphosed package belonging to Slide Mountain Terrane and three younger units that are found in both terranes. Descriptions of these lithologies are presented below:

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Paleozoic Layered Metamorphic Sequence is the oldest and most abundant lithological package within Yukon-Tanana Terrane. It consists of three distinct stratigraphic units with a total thickness of approximately 3.0 km. The lowest unit contains pre-late Devonian micaceous feldspathic quartzite with minor marble. The middle unit is late Devonian to mid-Mississippian in age and is the focus of volcanogenic massive sulphide exploration in the Finlayson Lake area. It consists of dark siliceous phyllite that becomes increasingly carbonaceous toward the base of the section where it interfingers with widespread mafic metavolcanic schist. Localized felsic metavolcanic centres are found throughout the section. The uppermost unit contains early Pennsylvanian to early Permian white carbonate and quartzite.

Paleozoic Metaplutonic Rocks are also confined to Yukon-Tanana Terrane. They are subdivided into three suites, all of which are coarse grain and have yielded mid-Mississippian age dates (340 to 359 Ma). The quartz monzonitic to quartz dioritic Simpson Range plutonic suite is slightly older than augen orthogneiss (leucogranite) and monzonitic orthogneiss (quartz monzonite). Most contacts between metaplutonic rocks and the layered metamorphic sequence are foliaform.

Both the layered metamorphic sequence and the metaplutonic rocks underwent intense deformation (F1) during Permian or early Triassic time. This event resulted in pervasive foliation that usually parallels subhorizontal or shallow-dipping compositional layering. The F1 deformation was accompanied by middle greenschist to middle amphibolite facies regional metamorphism. A second phase of deformation (F2) is observed locally but appears to have been a relatively minor event.

Slide Mountain Terrane consists of obducted ophiolitic assemblages that are most abundant within the Campbell Range Belt but also appears as imbricate slices along thrust faults elsewhere in the allochthon. The Campbell Range Belt is up to 25 km wide and forms the northeastern edge of the allochthon. It contains relatively unmetamorphosed but strongly folded and imbricated cherts with mafic and felsic volcanics, massive greenstone and serpentinite. Thrust slices elsewhere in the allochthon are also unmetamorphosed but typically contain a higher proportion of mafic to ultramafic plutonic rocks. Fossils in the cherts have been dated as late Pennsylvanian to early Permian while the mafic and ultramafic rocks are late Devonian. Slide Mountain rocks do not exhibit the F1 foliation characteristic of the Yukon-Tanana layered metamorphic sequence and metaplutonic rocks.

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The remaining three units are all younger and unmetamorphosed. They are found in both Yukon-Tanana and Slide Mountain Terranes. Mesozoic Clastic Rocks are late Triassic immature sediments containing cobbles derived from both Yukon-Tanana and Slide Mountain. Mesozoic Plutonic Rocks include a number of early Jurassic mafic to intermediate plutons plus scattered late Cretaceous quartz monzonite stocks. Major thrust faults in the district post-date the early Jurassic plutons but pre-date the late Cretaceous quartz monzonite. This structural event is believed to have occurred during accretion of the allochthon to the North American craton because the thrusts cut the miogeoclinal rocks as well as the allochthonous rocks. Transcurrent movement on the Tintina Fault Zone occurred soon after the thrust faults. Young Volcanic Rocks unconformably overlie the other units and consist of late Cretaceous to Tertiary felsic volcanic flows and volcanoclastic deposits. They are usually found in close proximity to the Tintina Fault Zone.

**Regional Economic Geology:**

The geologically complex Yukon-Tanana and Slide Mountain Terranes are host to a variety of economically important classes of mineral deposits in the Finlayson Lake area.

Four classes of stratabound, syngenetic mineralization have been identified in YTT. These are: 1) Kuroko-type VMS deposits, hosted by metamorphosed felsic volcanic and subvolcanic rocks; 2) Besshi-type VMS deposits, hosted mainly by metamorphosed mafic volcanic and associated sedimentary rocks; 3) Sedex-type deposits, hosted mainly by metamorphosed carbonaceous siliciclastic rocks, and 4) Cyprus-type massive sulphide deposits associated with low-K basaltic volcanics that form the upper portions of ophiolite complexes.

- In the Finlayson Lake area, Kuroko-type VMS mineralization occurs within felsic metavolcanic and volcanoclastic assemblages of early Mississippian age. These occurrences are spatially associated with deformed subvolcanic domes or thick sills with their distal equivalents interfingering with carbonaceous siliciclastics. The ABM deposit, PAK and FETISH occurrences are in this class.
- Besshi-type VMS mineralization is associated with interlayered mafic metavolcanic rocks, carbonaceous schist and fine grain siliciclastics of the Nasina Assemblage. The Fyre Lake occurrence has been classified as a Besshi-type. Mineralization is crudely zoned with a sulphide-rich facies consisting predominantly of fine grain pyrite with minor chalcopyrite and sphalerite and an oxide-rich facies consisting of siliceous, chlorite-rich, magnetite iron formation with disseminated pyrite, pyrrhotite and chalcopyrite.

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- Sedex-type mineralization (HOO deposit) also occurs in Finlayson Lake area but does not occur in the vicinity of the DOT property and is not an exploration target.
- Cyprus-type massive sulphide deposits occur in ophiolite complexes of various ages. The lithologic sequences hosting these deposits formed within the environment of active basaltic submarine volcanism that characterizes spreading sea floor or behind-arc systems where new oceanic crust is being formed. The ophiolite complexes that contain Cyprus-type deposits may become strongly dismembered in the process of incorporation into continental margins. The ICE deposit is considered to be a Cyprus-type VMS deposit. A brief description of some of the more important deposits in the region is presented below:

**Kudz Ze Kayah Project (ABM deposit):**

The discovery of the ABM deposit by Cominco geologists followed a program of prospecting and contour soil sampling aimed at locating the source of anomalous Zn, Pb and Cu concentrations detected in stream sediments by a G.S.C. regional stream sediment and water geochemical survey (G.S.C.O.F. 1648). A small cobble of banded massive sulphide mineralization, found by Cominco geologist A.B. Mawer in 1993, provided the encouragement to continue exploration with a UTEM ground electromagnetic survey. This survey and soil geochemical surveys outlined a drill target about one kilometre up ice from the mineralized float. The discovery hole was drilled in April, 1994 resulting in an intercept of 22.5 metres grading 0.5% Cu, 2.8% Pb, 10% Zn, 278 g/t Ag and 1.2 g/t Au.

The ABM deposit lies in a belt of metamorphosed rocks referred to as the Yukon-Tanana Terrane. The deposit is a volcanic hosted massive sulphide body within a thick complex of felsic tuffs and sills or flows interlayered with minor mafic sills or flows and sedimentary rocks comprising the Middle Unit of the Paleozoic Layered Metamorphic Sequence. A subhorizontal to moderately north dipping, penetrative schistosity affects the deposit and the rocks which host it. Units exhibit isoclinal, recumbent folding with bedding generally paralleling schistosity. As a result of folding, the ABM deposit itself, at least in part, is overturned. Evidence for overturning includes base and precious metal and barium zonation within the deposit, the position of proximal chloritic alteration above portions of the deposit and litho-geochemical signatures which suggest a petrogenetic link between units hosting the deposit and those overlying them.

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The deposit subcrops beneath 2 to 20 metres of glacial overburden. It measures roughly 700 metres east-west along strike and extends as much as 400 metres down-dip. Over much of its areal extent, the deposit is sheet-like and forms a main, single layer; in the southwestern part, two main layers of sulphides merge locally into a single thick zone. The sulphide sheets range in thickness from less than 2 to 39 metres. The southeastern part of the deposit has been down-dropped about 150 metres by a fault which dips at 70° to 75° to the southeast.

At the end of 1997, a geological resource of 13 million tonnes of 5.5% Zn, 1% Cu, 1.3% Pb, 125 g/t Ag and 1.2 g/t Au was defined, based on approximately 26,000 metres of drilling in 162 NQ diameter holes.

The metamorphic rocks which host the sulphide horizon have been derived from a variety of igneous and sedimentary protoliths. Sulphide mineralization is now hosted by quartz-muscovite-carbonate schist within a sequence of chlorite schist (mafic metavolcanic), quartz-sericite-schist (rhyolite), feldspar porphyry and black phyllites. Chlorite, albite and carbonate alteration are associated with the deposit. Three types of mineralization have been recognized: well-laminated magnetite-pyrite; buckshot-textured pyrite-sphalerite in laminated siliceous-carbonate gangue, and net-textured pyrrhotite-pyrite-chalcopyrite-chlorite. Up to 2% Ba is associated with mineralization. The association of magnetite with sulphides, which makes up about 1/3 of the mineralization, is unusual for VMS deposits.

**Wolverine Zone:**

The Wolverine Lake properties, owned by Atna Resources, were identified as prospective ground by Westmin Resources in late 1994. In January, 1995 Westmin finalized an option agreement with Atna on 143 claims in Foot, Toe and Pak properties and subsequently added more claims in spring and summer of 1995. Westmin has presently increased its land holdings to approximately 2,200 claims.

The Wolverine Zone is located 25 km east of Kudz Ze Kayah near a contact between Yukon-Tanana and overlying Slide Mountain rocks. It lies within the Middle Unit of the Paleozoic Layered Metamorphic Sequence. The zone is hosted within felsic (rhyolitic) metavolcanics interbedded with carbonaceous argillites and quartz grits thought to be Devonian-Mississippian in age. Mineralization consists primarily of semi-massive to massive sulphides. Pyrite and sphalerite occur with varying amounts of galena, chalcopyrite, tetrahedrite and native gold. The surface expression of the zone is marked by a vegetation

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kill zone containing weakly malachite-stained schist. At the end of 1995, Westmin had intersected the zone in fifteen consecutive diamond drill holes and traced it 400 metres along strike and up to 250 metres downdip. It averages 6.2 metres thick with shallow dips to the north. Although the zone is blind to surface, it is open downdip and along strike in both directions. The Wolverine deposit contains significantly more zinc and precious metals than the Kudz Ze Kayah orebody. The weighted average grade for intersections reported to the end of June, 1996 was 13.0% zinc, 1.3% copper, 1.4% lead, 350 g/t silver and 1.9 g/t gold with a resource estimate of 3.1 million tonnes. Soil geochemistry outlined weakly to moderately anomalous values along the projected surface trace of the zone while magnetic surveys easily traced a laterally extensive banded iron formation which occurs about 80 metres up-section from the massive sulphide horizon.

To the end of the 1997 field season, a total of 94 drill holes have been completed on the Fisher, Sable and Lynx zones at Wolverine. Holes drilled in the new Lynx zone, immediately west of the Wolverine zone, have produced exceptional grades of up to 33% Zn, 19 oz/t Ag and 0.15 oz/t Au across a three metre intersection. A current geological resource is estimated at 5.3 million tonnes grading 12.95% Zn, 1.53% Pb, 1.41% Cu, 359.1 g/t Ag and 1.81 g/t Au.

**Fyre Lake Project:**

The Fyre Lake property lies within the Finlayson Lake District where prior work outlined flat-lying, massive sulphide mineralization on surface which remains open for reserve delineation in all directions. Fyre Lake was the original polymetallic, volcanogenic massive sulphide discovery in the Finlayson Lake area.

At the Fyre Lake property, the potential for several volcanogenic massive sulphide copper-cobalt-gold deposits is indicated along a 13 km belt. To date, Columbia Gold Mines Ltd. has drilled 115 holes that have defined the open ended Kona deposit over a length of 1.5 km and an average width of 250 metres within a 3.5-km long geophysical-geochemical target.

The Fyre Lake volcanogenic massive sulphide copper-cobalt-gold property is situated immediately east of Fire Lake along the North River drainage approximately 160 km northwest of Watson Lake, Yukon Territory. The 70 square kilometre property, comprising 196 claims, is located approximately 30 km south of Cominco's Kudz Ze Kayah polymetallic deposit and 30 km southwest of the Atna-Westmin Wolverine discovery.

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Massive sulphide mineralization was first discovered on the property in 1960 by Cassiar Asbestos Corporation, and since then various companies, including Atlas Explorations (1966-67), Amax Potash Limited (1976), Welcome North Mines Ltd. (1980-81) and Placer Dome Explorations (1990-91), explored their respective claim holdings with a variety of surface surveys plus 23 shallow packsack (224 m) and 20 AX (1423 m) drill holes. Columbia Gold Mines Ltd. acquired the property from Welcome Opportunities Ltd. in 1995 and between late June and early October, 1996, conducted an integrated exploration program over three grid areas which include (from north to south): the "Kona" grid area that covers the Kona Creek drainage and the original massive sulphide discoveries; the "Lake" grid area, situated immediately east of the south end of Fire Lake, that covers geochemical and geophysical anomalies reported by Atlas Explorations and Placer Dome, and the "Dub" grid area on the east side of the North River three to seven kilometres southeast of Fire Lake. A total of 142.8 line-km of combined geological, geochemical, and geophysical surveying was carried out and 71 NQ- and/or BQTK-core diamond drill holes, totalling 9531.51 metres, were completed within the Kona grid area. This drilling partially tested the Kona copper-cobalt-gold VMS deposit along a portion of the 3.5-km long anomaly within the Kona zone.

The Fyre Lake property is underlain by a sequence of metamorphosed sedimentary and volcanic rocks belonging to the Paleozoic Layered Metamorphic Sequence (Mortensen, 1985) or Klondike Schist (Tempelman-Kluit *et al.*, 1977) of the Yukon-Tanana Terrane. The layered sequence is composed of three units; lower and upper metasedimentary units separated by an interlayered, metamorphosed volcanic-sedimentary middle unit. The lower metasedimentary rocks crop out predominantly along the western side of the property and a belt of metamorphosed mafic volcanic and carbonaceous, clastic sedimentary rocks of the middle member underlie the centre of the property. The eastern portion of the property contains a thin wedge of upper unit metasedimentary rocks that is overthrust by the late Devonian to late Pennsylvanian-early Permian Slide Mountain Terrane (Anvil-Campbell Allochthonous Assemblage).

Copper-cobalt-gold VMS mineralization within the Kona grid area is hosted by a well deformed and moderately metamorphosed chlorite to quartz-chlorite schist sequence which is interpreted to be a succession of mafic to possibly intermediate flows with interbedded tuffs and volcanically-derived, fine grain sedimentary rocks belonging to the middle unit of the layered metamorphic sequence. The chloritic schist sequence is overlain by a micaceous quartz schist unit which is, in turn, overlain by a thick sequence of phyllite of the upper metasedimentary sequence.

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The Kona deposit, situated within the Kona Creek drainage, has at least three distinct horizons of massive to semi-massive sulphide and magnetite mineralization with a combined mineralized thickness of 70 to 80 metres. A brief description of the three mineralized horizons is as follows:

- 1) The "Lower Horizon" is hosted by chlorite and quartz-chlorite schists and measures 4 to 12 metres thick. The horizon is comprised of less than 1- to more than 6-metre thick alternating layers of massive sulphide and massive magnetite mineralization.
- 2) The "Middle Horizon" is also hosted by chlorite and quartz-chlorite schists and averages five metres thick. It hosts similar mineralization with copper, gold and cobalt grades equivalent to the Lower Horizon.
- 3) The "Upper Horizon" is situated immediately beneath the stratigraphic metavolcanic-metasedimentary contact of the quartz-chlorite schists with upper micaceous phyllites, and it is the most laterally continuous mineralization tested to date. This horizon varies from 6 to 40 metres thick and is comprised of individual 5- to 15-metre thick massive and semi-massive sulphide layers overlying 2- to 27-metre thick banded magnetite horizons.

The massive sulphide mineralization of the Kona deposit is comprised of fine to coarse grain pyrite, chalcopyrite, pyrrhotite and sphalerite while the associated semi-massive sulphide mineralization consists of thinly laminated pyrite, chalcopyrite ± pyrrhotite within alternating laminae of very fine grain siliceous chlorite schist (ie meta-tuff and chert). Banded and massive magnetite layers host trace to 10 percent sulphides, usually chalcopyrite, pyrite and rarely bornite. The Lower and Middle Horizons have the highest gold values associated with the copper mineralization (ie: Drill Hole 21 intersected 6.6 metres grading 1.77% Cu, 1.26 g/t Au, 0.73% Zn and 0.22% Co) while the copper metal grades are relatively higher in the Upper Horizon (ie: Drill Hole 65 graded 2.29% Cu, 0.52 g/t Au, and 0.07% Co over 31.3 metres).

By July, 1997, approximately 14,000 metres of drilling in 96 holes was completed. On this basis, approximately six million tonnes of mineralization had been inferred. Widely spaced drilling within the western part of the Kona deposit indicates massive sulphide mineralization over a length of 1100 metres and a width in excess of 250 metres. The eastern portion of the Kona deposit contains two open-ended mineralized horizons, both with potential for open pit and underground operations. The Upper Horizon has a weighted average grade of 1.9% Cu, 0.12% Co and 0.53 g/t Au over an average thickness of 13 metres.

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This horizon thickens to 43 metres at its southern end. The Lower Horizon has a weighted average grade of 1.2% Cu, 0.77 g/t Au and 0.12% Co over an average thickness of 7 metres. Preliminary metallurgical studies show cobalt is associated with pyrite.

The ultimate dimension and tonnage potential of Kona deposit remains open; it remains prospective for containing approximately 20 million tonnes. There remain two other massive sulphide targets to be examined within the Fyre Lake project area.

**Ice Property:**

The Ice property covers a new deposit in basalt of the Slide Mountain Terrane that has seen almost no previous exploration. The property is located 60 km east of Ross River and 18 km north of the Robert Campbell Highway in the Finlayson Lake area of southeastern Yukon. Expatriate Resources Ltd. owns a 100% interest in 1081 claims that cover the deposit and extensions of the favourable geology. The main area of interest is in a range of low hills 17 km north of the Robert Campbell Highway. Mineralization is Cyprus-type and comprises copper-gold-silver-zinc-cobalt.

A prospector found the first mineralization in early June, 1996 and soil geochemical and geophysical surveys began almost immediately. Diamond drilling commenced in July, 1996 and by late October, 34 holes totalling 2704 metres were completed. The first 33 holes outlined a 450 by 200 metre zone of secondary copper mineralization while Hole 34 intersected a non-outcropping, unoxidized, Cyprus-type VMS body.

The VMS discovery intersection averaged 5.20% copper, 0.6 g/t gold, 25 g/t silver and 0.06% cobalt over an approximate true width of 20.56 metres. Primary copper mineralization occurs in massive sulphide lenses and stockwork zones and comprises chalcopyrite, pyrite, bornite and lesser digenite with minor quartz ± calcite gangue. Most of the pyrite occurs in pebble to cobble size fragments which are surrounded by the copper-bearing minerals. The sulphides exhibit sharp contacts with the surrounding unmineralized basalt and there is no underlying stockwork or breccia that would suggest proximity to a vent. Narrow, barren pyrite lenses intersected in other holes probably lie nearer the edge of the VMS system.

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The secondary copper mineralization occurs peripheral to or above primary mineralization and is believed to have formed in situ or when near surface sulphide mineralization oxidized, and the copper was leached, transported in acidic groundwater and then reprecipitated. The source of the secondary copper zone has not yet been identified but it is thought to be VMS similar to that intersected in Hole 34. The secondary copper mineralization consists of fracture-filling cuprite, tenorite, malachite, azurite and native copper plus chalcocite overprinting barren pyrite lenses up to two metres thick. Secondary mineralization is restricted to the zone of weathering which extends downward to a maximum depth of 60 metres below surface. The underlying rocks consist of fresh, unmineralized basalt. The mineralogy and geometry of the secondary copper zone makes it well-suited for low cost open pit mining and solvent extraction/electrowinning metallurgy.

To the end of September, 1997, a total of 10,584 metres of drilling in 121 holes has been completed. Drilling has delineated a high-grade core surrounded by a broad halo containing thick intersections of lower grade mineralization. Copper grades in the halo typically range from 1.5-3.0% in massive sulphide, 0.5-1.2% in stockwork sulphide and 0.2-1.5% in secondary mineralization.

**Property Geology:**

Regional geological mapping of part of the Pelly Mountains map area (105G/14) by Mortensen (1983) indicates that the bedrock geology underlying the DOT claims comprises mainly Middle Unit mafic metavolcanic and associated metasedimentary rocks and Lower Unit micaceous quartzite and marble (Nisling Assemblage) of the pre-Mississippian to Mississippian Paleozoic Layered Metamorphic Sequence of the Yukon-Tanana Terrane.

**Lithologies:**

Geological mapping by Pacific Bay Minerals personnel indicates that the property is underlain by Yukon-Tanana Terrane units comprising chloritic schists and phyllites which represent mafic metavolcanic rocks. These are intercalated with carbonaceous phyllites and muscovite phyllites. The limey phyllites appear pale green and may represent a metatuff. Thickly bedded, schistose marble horizons, measuring up to three metres thick, occur within the metavolcanic package (Map 1).

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A cliff-forming, 10-metre thick exposure of quartz-feldspar augen schist was examined for approximately 30 metres along strike near the east end of the property. This lithology appears pale grey and fine grained with muscovite foliations. This unit may represent felsic volcanoclastics similar to those mapped at Kudz Ze Kayah.

**Structure:**

The lithologies examined show well developed foliation trending NW-SE with shallow to moderate dips to northeast., In addition, units are locally strongly folded and crenulated.

**Mineralization:**

Geological mapping and prospecting failed to identify any sulphide mineralization in the lithologies examined.

**GEOCHEMISTRY:**

A total of 11.9 km of flagged, blazed and picketed soil grid lines were completed over the eastern portion of the property. Sample stations were located at 50 metre intervals along 100 metre spaced cross lines (Map 2). This sample density was selected to provide first-pass coverage with the option to tighten up sample spacing if warranted by positive analytical results.

**Sampling Procedure:**

A total of 235 grid controlled soil samples and one rock sample were collected during the 1997 reconnaissance survey. Soil samples were collected from an average depth of 50 cm from pits dug with long handle mattocks and were placed in numbered, large gusseted kraft paper soil bags. Samples reflect representative B or C horizon soils obtained from moderately to well developed soil profiles. Soil composition comprises dark grey clay and sandy clay. Samples collected from flat, swampy areas are believed derived from glacial clays.

Ground control for soil sampling, plus geological mapping, was provided by compass, altimeter and hip chain. Field crews were supplied with 1:5,000 scale contoured base maps for plotting data and navigation. Analytical results are presented in Appendix IV and geochemical values are plotted on Map 2.

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**Soil Geochemistry:**

An examination of analytical results indicates that there exists scattered, elevated to strongly anomalous base metal-in-soil anomalies on the DOT grid. In addition, there are anomalous silver and gold values which locally coincide with anomalous base metal geochemical responses.

A soil sample collected at the north end of L14+00E returned 286 ppm Cu, 546 ppm Pb, 234 ppm Zn, 10.8 ppm Ag, 32 ppb Au and 1.06% As. Other scattered copper (up to 262 ppm), lead (up to 230 ppm), zinc (up to 829 ppm), silver (up to 1.3 ppm) and gold (up to 33 ppb) values are plotted toward the western and northwestern portion of the grid. A few scattered anomalous Mo values (up to 33 ppm) are recorded which do not appear to coincide with anomalous base metal values. The majority of anomalous samples are anomalous only in copper.

This series of samples was collected from soil profiles developed over felsic to mafic metavolcanic rocks, carbonaceous phyllites and minor schistose marbles. Weakly to strongly anomalous molybdenum signatures may reflect an association with felsic metavolcanic rocks or, alternatively, this element may associate with pelitic/argillaceous metasediments. This latter style of element/host rock association is indicated in studies conducted on Expatriate's PLAY claims adjacent to DOT property.

Geochemical background values and anomalous thresholds for Cu, Pb, Zn and Mo mineralization within soil samples collected on the DOT property are presented in Table II. These values were confirmed in a summary report on the Finlayson Lake Properties by M.A. Powers (1996) for Expatriate Resources Ltd. and are valid for geochemical surveys conducted on the DOT property.

**TABLE II - GEOCHEMICAL BACKGROUNDS & ANOMALOUS THRESHOLDS**

|            | Background<br>(ppm) | Weak<br>(ppm) | Moderate<br>(ppm) | Strong<br>(ppm) | Peak<br>Value<br>(ppm) |
|------------|---------------------|---------------|-------------------|-----------------|------------------------|
| Copper     | 25                  | 50            | 100               | 200             | 1720                   |
| Lead       | 30                  | 50            | 100               | 200             | >4000                  |
| Zinc       | 80                  | 200           | 500               | 1000            | >4000                  |
| Molybdenum | <1                  | 2             | 5                 | 10              | 65                     |

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**CONCLUSIONS:**

Geological mapping and grid controlled soil sampling was the focus of exploration activity on the DOT property during the 1997 exploration program by Pacific Bay Minerals Ltd.

A total of 235 grid soil samples and one rock sample were collected for analysis with the objective of evaluating the property's economic potential plus follow up on Cominco's airborne and ground geophysics survey.

An 11.9 km soil grid was established over the property to provide sample coverage over stratigraphy belonging to Yukon-Tanana Terrane. Soils were collected at 50 metre intervals along 100 metre spaced lines.

Elevated to strongly anomalous values for zinc, copper, lead, silver, gold and molybdenum are documented from the 1997 geochemical survey. Anomalous base metal results appear to extend northeastward onto the adjoining PLAY claims. The results of surveys conducted on these claims by Expatriate were encouraging, consequently a prospective geochemical target may exist on the DOT grid.

Geological mapping by Pacific Bay Minerals' personnel suggests that bedrock in this area comprises interbedded mafic metavolcanic and phyllitic strata with thin carbonate and felsic metavolcanic horizons.

An evaluation of previous work plus results of the present exploration program suggests that base  $\pm$  precious metal geochemical anomalies are associated with mafic metavolcanic and metasedimentary rocks and may be linked to near-surface mineralization.

**RECOMMENDATIONS:**

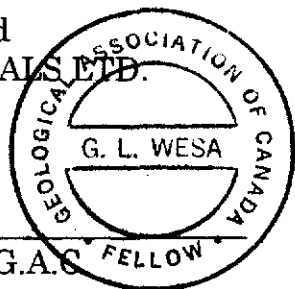
A review of the data from Cominco's 1994 exploration program, plus a current evaluation of the property by Pacific Bay Minerals, indicates that additional work is required to fully assess the property's potential to host an economic ore body. An exploration program of detailed geological mapping, geochemistry, trenching and possible diamond drilling is warranted. This program is described below:

1. Detailed mapping to provide a better understanding of bedrock geology and structural features.

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2. Closer spaced soil sampling in areas of anomalous base metal-in-soil geochemistry. It is recommended that samples be obtained at 25 metre intervals on 50 metre spaced lines.
3. Trenching to bedrock proximal to strongly anomalous soil samples.
4. The geochemical grid should be expanded to the northwest to explore the areas around the weak zinc anomalies obtained by Cominco in 1995. This area appears to be underlain by mafic metavolcanic rocks; however, felsic metavolcanic sills, known to be favourable host for massive sulphides, may also be present
5. Exposed favourable bedrock in trenches should be mapped and chip sampled across appropriate intervals.
6. Contingent upon positive results from follow-up soil sampling and trenching, a diamond drilling program should be considered to test at depth combined geophysical and geochemical targets delineated by previous surveys.

Respectively Submitted  
PACIFIC BAY MINERALS LTD.



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Gary L. Wesa, B.Sc. F.G.A.C.

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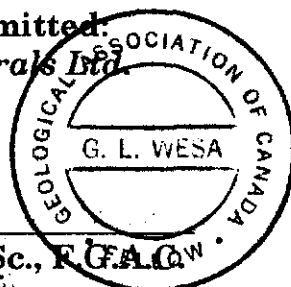
**STATEMENT OF QUALIFICATIONS**

I, Gary L. Wesa, of #309 - 6669 Telford Avenue, in the City of Burnaby, B.C., do hereby certify that:

1. I am presently employed as Project Geologist to Pacific Bay Minerals Ltd. with offices at #908-700 West Pender Street, Vancouver, British Columbia.
2. I am a graduate of the University of Saskatchewan with a B.Sc. Degree in Geology (1974) and I have practiced my profession continuously since graduation.
3. I have been employed in mineral exploration in Canada and the U.S.A. since 1970.
4. I am a registered Fellow of the Geological Association of Canada.
5. I am familiar with the regional geology of the Yukon-Tanana and Slide Mountain Terranes and have personally performed work on several properties in this region.
6. I am the author of this report entitled: "Geological and Geochemical Report on the DOT Property", which is based upon researched documents, referenced in this report, and supervision of the 1997 field program.

Dated at Vancouver, British Columbia this \_\_\_\_\_ day of April, 1998

Respectfully submitted:  
*Pacific Bay Minerals Ltd.*



Gary L. Wesa, B.Sc., F.G.A.C.

# **APPENDIX I**

## **Itemized Cost Statement**

**DOT CLAIMS  
ITEMIZED COST STATEMENT**

**FIELD COSTS:**

*Salaries:*

|  |               |
|--|---------------|
| M. Phillips - 22.5 days @ \$275.00 per day | \$6,187.50    |
| R. Charron - 11 days @ \$120.00 per day    | 1,320.00      |
| F. Grenier - 4 days @ \$120.00 per day     | <u>480.00</u> |

**TOTAL** **7,985.50**

**FIELD EXPENSES:**

|                                    |          |
|------------------------------------|----------|
| Helicopter (Bell 206B, Jet Ranger) |          |
| Trans North Helicopters            | 3,070.90 |
| Camp Costs                         | 320.30   |
| Meals                              | 51.50    |
| Travel/Vehicle Rental              | 185.40   |

Equipment Rentals:

|  |          |
|--|----------|
| Baseline Resources (camp supplies & tools) | 4,936.00 |
| Dilman Communications                      | 68.47    |

|                         |              |
|-------------------------|--------------|
| Fuel (propane, JP-4)    | 500.00       |
| Shipping/Freight        | 117.00       |
| Groceries/Food Supplies | 317.48       |
| Miscellaneous Supplies  | <u>50.56</u> |

**TOTAL** **\$10,029.56**

**GEOCHEMICAL ANALYSIS**

|              |                              |             |
|--------------|------------------------------|-------------|
| Soil Samples | 235 samples @ \$13.24/sample | \$3,124.89  |
| Rock Samples | 1 sample @ \$4.10/sample     | <u>4.10</u> |

**TOTAL** **\$3,128.99**

**OFFICE COSTS**

|                               |              |
|-------------------------------|--------------|
| Report Preparation/Post Field | \$ 500.00    |
| Drafting                      | 50.00        |
| Miscellaneous                 | <u>50.00</u> |

**TOTAL** **\$ 600.00**

ADD: 7% G.S.T.

**\$ 413.18**

**TOTAL EXPENDITURES**

**\$22,157.23**



# **APPENDIX II**

## **Summary of Personnel**

## Summary of Personnel

| <u>NAME</u>      | <u>TITLE</u>        | <u>ADDRESS</u>     |
|------------------|---------------------|--------------------|
| Gary L. Wesa     | Project Geologist   | Vancouver, B.C.    |
| Mike P. Phillips | Geologist           | Whitehorse, Yukon  |
| Rob Charron      | Assistant Geologist | Whitehorse, Yukon  |
| Francois Grenier | Sampler             | Watson Lake, Yukon |

# **APPENDIX III**

## **Analytical Procedure**

# ACME ANALYTICAL LABORATORIES LTD.

## Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C., Canada V6A 1R6

Telephone: (604) 253-3158 Fax: (604) 253-1716

### METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D - 30 ELEMENT ICP BY AQUA REGIA

#### Sample Preparation:

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to -100 mesh (-150 microns). Plant samples are dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded to loosen trapped sediment then sieved to -80 mesh. At the clients request, moss mats can be ashed at 550°C then sieved to -80 mesh although this can result in the potential loss by volatilization of Hg, As, Sb, Bi and Cr. A 0.5 g split from each sample is placed in a test tube. A duplicate split is taken from 1 sample in each batch of 34 samples for monitoring precision. A sample standard is added to each batch of samples to monitor accuracy.

#### Sample Digestion:

Aqua Regia is a 3:1:2 mixture of ACS grade conc. HCl, conc. HNO<sub>3</sub> and demineralized H<sub>2</sub>O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hour in a boiling hot water bath (95°C).

#### Sample Analysis:

Sample solutions are aspirated into an ICP emission spectrograph (Jarrel Ash Atom Comp model 800 or 975) for the determination of 30 elements comprising: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

#### Data Evaluation:

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

# ACME ANALYTICAL LABORATORIES LTD.

## Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C., Canada V6A 1R6

Telephone: (604) 253-3158 Fax: (604) 253-1716

## METHOD FOR WET GEOCHEM GOLD ANALYSIS

### Sample Preparation:

Soils and sediments are dried (60°C) and sieve to -80 mesh.

Rocks and cores are crushed and pulverized to -100 mesh.

### Sample Digestion

1. 10g samples in 250 ml beaker, ignite at 600°C for four hours.
2. Add 40 ml of 3:1:2 mixture HCL:HNO<sub>3</sub>:H<sub>2</sub>O.
3. Cover beaker with lids.
4. Boil in hot water bath for one hour.
5. Swirl samples 2 to 3 times within the hour.
6. Cool, add 60 ml of distilled water and settle.
7. Pour 50 ml of leached solution using a graduated cylinder into 100 ml volumetric flask.
8. Add 10 ml of MIBK and 25 ml of distilled water.
9. Shake 3 to 4 minutes in shaker.
10. Add additional 25 ml of distilled water to stripe out excess iron.
11. Shake each flask 10 times.
12. Pour MIBK into container for graphite AA finished.

# **APPENDIX IV**

## **Soil & Rock Geochemical Lab Reports**



GEOCHEMICAL ANALYSIS CERTIFICATE



Pacific Bay Minerals Ltd. PROJECT DOT CLAIMS File # 97-3664 Page 1  
 908 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: M.P. Phillips

| SAMPLE# | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| D 781   | 8         | 75        | 3         | 2         | <.3       | 12        | 7         | 178       | 1.13    | 4         | <8       | <2        | 3         | 18        | <.2       | <3        | 6         | 29       | .35     | .166   | 16        | 14        | .03     | 88        | <.01    | 5        | .23     | <.01    | .16    | 4        | <1         |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: P1 ROCK P2 TO P8 SOIL AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

DATE RECEIVED: JUL 17 1997 DATE REPORT MAILED: *July 25/97* SIGNED BY: *C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

Pacific Bay Minerals Ltd. PROJECT DOT CLAIMS File # 97-3664 Page 2

908 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: M.P. Phillips

| SAMPLE#          | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P %  | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------|--------|--------|--------|--------|--------|--------|-------|------|------|--------|--------|------|--------|------|-------|------|------|-----|-------|---------|
| D 500            | 1      | 23     | 12     | 82     | <.3    | 28     | 11     | 320    | 2.76 | 49     | <8    | <2     | 3      | 41     | <.2    | <3     | <3     | 44    | .78  | .099 | 19     | 37     | .87  | 315    | .01  | <3    | 1.56 | .02  | .11 | <2    | 1       |
| D 501            | 1      | 60     | 14     | 85     | .3     | 53     | 16     | 521    | 2.91 | 49     | <8    | <2     | 2      | 78     | .7     | <3     | <3     | 30    | 2.59 | .105 | 17     | 28     | .81  | 416    | <.01 | <3    | 1.30 | .01  | .09 | <2    | 2       |
| D 502            | 1      | 39     | 9      | 67     | .3     | 39     | 11     | 536    | 2.55 | 42     | <8    | <2     | <2     | 65     | <.2    | <3     | <3     | 36    | 1.49 | .107 | 18     | 30     | .64  | 476    | .01  | <3    | 1.21 | .01  | .06 | <2    | 3       |
| D 503            | 1      | 28     | 7      | 82     | <.3    | 33     | 12     | 440    | 2.16 | 40     | <8    | <2     | <2     | 60     | .2     | <3     | <3     | 36    | 1.33 | .075 | 13     | 28     | .67  | 256    | .01  | <3    | 1.00 | .02  | .08 | <2    | 1       |
| D 504            | 2      | 62     | 11     | 91     | .3     | 66     | 18     | 482    | 3.41 | 92     | <8    | <2     | 4      | 35     | .2     | <3     | 3      | 55    | .66  | .065 | 24     | 50     | .93  | 422    | .01  | <3    | 1.61 | .01  | .14 | <2    | 3       |
| D 505            | 1      | 37     | 13     | 119    | <.3    | 46     | 15     | 235    | 3.05 | 66     | <8    | <2     | 5      | 47     | <.2    | <3     | <3     | 46    | .97  | .113 | 24     | 40     | 1.02 | 225    | .01  | <3    | 1.40 | .01  | .12 | <2    | 1       |
| D 506            | <1     | 13     | 4      | 46     | <.3    | 19     | 12     | 638    | 3.37 | 18     | <8    | <2     | 7      | 56     | <.2    | <3     | <3     | 14    | 3.46 | .036 | 23     | 13     | 2.24 | 143    | <.01 | <3    | 1.09 | .01  | .05 | <2    | <1      |
| D 507            | 1      | 65     | 27     | 155    | <.3    | 52     | 19     | 614    | 3.45 | 88     | <8    | <2     | 4      | 36     | .4     | <3     | 3      | 33    | .96  | .063 | 27     | 32     | 1.09 | 153    | .01  | <3    | 1.51 | .01  | .06 | <2    | 1       |
| D 508            | 1      | 71     | <3     | 160    | <.3    | 86     | 46     | 700    | 8.26 | 13     | <8    | <2     | <2     | 5      | <.2    | <3     | <3     | 101   | .03  | .021 | 9      | 231    | 3.26 | 95     | <.01 | <3    | 3.85 | .01  | .04 | <2    | <1      |
| D 509            | 2      | 57     | 19     | 130    | <.3    | 40     | 22     | 751    | 3.68 | 72     | <8    | <2     | 6      | 24     | 1.7    | <3     | <3     | 46    | .41  | .025 | 24     | 36     | .64  | 178    | .01  | <3    | 1.36 | .01  | .07 | <2    | 2       |
| RE D 509         | 2      | 56     | 16     | 128    | <.3    | 39     | 22     | 731    | 3.59 | 77     | <8    | <2     | 6      | 23     | 1.5    | <3     | <3     | 45    | .39  | .025 | 23     | 34     | .62  | 172    | .01  | <3    | 1.31 | .01  | .07 | <2    | 2       |
| D 510            | 1      | 28     | 22     | 69     | <.3    | 76     | 34     | 537    | 3.89 | 131    | <8    | <2     | 6      | 36     | <.2    | <3     | <3     | 37    | .66  | .028 | 27     | 79     | 1.08 | 128    | <.01 | <3    | 1.86 | .01  | .11 | <2    | 1       |
| D 511            | 1      | 72     | 24     | 203    | <.3    | 66     | 22     | 579    | 3.54 | 213    | <8    | <2     | 2      | 51     | .3     | <3     | <3     | 39    | 1.45 | .089 | 16     | 54     | 1.02 | 96     | .01  | <3    | 1.41 | .02  | .04 | <2    | <1      |
| D 512            | 3      | 152    | 8      | 50     | <.3    | 129    | 58     | 822    | 8.51 | 100    | <8    | <2     | 5      | 27     | .4     | <3     | <3     | 76    | .56  | .067 | 26     | 103    | 2.03 | 135    | <.01 | <3    | 3.03 | .01  | .10 | <2    | <1      |
| D 513            | 1      | 35     | 10     | 56     | <.3    | 29     | 14     | 768    | 2.93 | 49     | <8    | <2     | 2      | 60     | <.2    | <3     | <3     | 28    | 1.78 | .066 | 18     | 24     | .54  | 290    | <.01 | <3    | 1.26 | .02  | .04 | <2    | <1      |
| D 514            | 1      | 28     | 19     | 56     | <.3    | 39     | 17     | 353    | 4.26 | 101    | <8    | <2     | 4      | 29     | <.2    | <3     | <3     | 41    | .88  | .040 | 23     | 38     | .54  | 163    | <.01 | <3    | 1.56 | .01  | .06 | <2    | 1       |
| D 515            | 1      | 20     | 7      | 55     | <.3    | 35     | 12     | 164    | 3.17 | 47     | <8    | <2     | 7      | 14     | <.2    | <3     | <3     | 52    | .31  | .019 | 28     | 52     | .70  | 226    | .01  | <3    | 1.84 | <.01 | .05 | <2    | <1      |
| D 516            | 1      | 69     | 15     | 77     | <.3    | 71     | 41     | 527    | 5.86 | 60     | <8    | <2     | 18     | 8      | <.2    | <3     | <3     | 20    | .13  | .042 | 61     | 32     | .91  | 120    | <.01 | <3    | 2.07 | <.01 | .05 | <2    | 1       |
| D 517            | 2      | 184    | 4      | 41     | <.3    | 451    | 127    | 1137   | 8.55 | 166    | <8    | <2     | 3      | 20     | .3     | <3     | <3     | 50    | .25  | .059 | 26     | 181    | 1.20 | 239    | <.01 | <3    | 2.66 | .01  | .03 | <2    | <1      |
| D 518            | 16     | 85     | 13     | 21     | <.3    | 33     | 13     | 447    | 6.36 | 54     | <8    | <2     | 3      | 12     | <.2    | 16     | <3     | 78    | .14  | .070 | 27     | 17     | .11  | 114    | .01  | <3    | 1.02 | .01  | .06 | <2    | <1      |
| D 519            | 1      | 29     | 14     | 22     | <.3    | 38     | 19     | 356    | 4.45 | 9      | <8    | <2     | 12     | 19     | <.2    | <3     | <3     | 8     | .24  | .024 | 50     | 7      | .12  | 97     | <.01 | <3    | .67  | <.01 | .04 | <2    | <1      |
| D 520            | 4      | 89     | <3     | 29     | <.3    | 82     | 36     | 293    | 5.56 | 5      | <8    | <2     | 3      | 6      | <.2    | <3     | 3      | 52    | .05  | .041 | 28     | 68     | 1.80 | 89     | <.01 | <3    | 2.28 | .01  | .05 | <2    | <1      |
| D 520 dup.       | 5      | 20     | 8      | 39     | <.3    | 30     | 16     | 219    | 4.10 | 8      | <8    | <2     | 4      | 5      | <.2    | <3     | <3     | 80    | .03  | .024 | 26     | 53     | 1.19 | 96     | <.01 | <3    | 2.36 | .01  | .06 | <2    | <1      |
| D 521            | 1      | 67     | 20     | 158    | <.3    | 54     | 22     | 644    | 3.84 | 77     | <8    | <2     | 4      | 50     | .5     | <3     | 4      | 35    | 1.15 | .071 | 28     | 32     | 1.32 | 158    | .02  | <3    | 1.60 | .01  | .08 | <2    | 1       |
| D 522            | 3      | 50     | 16     | 224    | .5     | 82     | 20     | 434    | 4.50 | 50     | <8    | <2     | 4      | 53     | 1.5    | <3     | <3     | 56    | 1.00 | .114 | 21     | 42     | .88  | 332    | .01  | <3    | 1.39 | .01  | .14 | <2    | 3       |
| D 523            | 1      | 35     | 5      | 73     | <.3    | 37     | 10     | 250    | 2.17 | 48     | <8    | <2     | <2     | 75     | .2     | <3     | <3     | 35    | 3.25 | .070 | 14     | 28     | .83  | 411    | .01  | 3     | 1.20 | .02  | .12 | <2    | <1      |
| D 525            | 2      | 47     | 14     | 111    | .3     | 59     | 21     | 411    | 4.15 | 77     | <8    | <2     | 9      | 23     | <.2    | <3     | 3      | 45    | .48  | .060 | 37     | 48     | 1.11 | 282    | .01  | <3    | 1.72 | .01  | .12 | <2    | 2       |
| D 526            | 2      | 50     | 12     | 100    | <.3    | 61     | 20     | 469    | 3.90 | 84     | <8    | <2     | 6      | 58     | <.2    | <3     | 3      | 51    | 1.74 | .080 | 28     | 51     | 1.23 | 355    | .01  | <3    | 1.83 | .01  | .13 | <2    | 1       |
| D 527            | 2      | 32     | 18     | 80     | <.3    | 46     | 15     | 420    | 3.56 | 83     | <8    | <2     | 3      | 39     | <.2    | <3     | <3     | 56    | .96  | .055 | 19     | 57     | .83  | 439    | .01  | <3    | 1.71 | .01  | .09 | <2    | <1      |
| D 528            | 2      | 53     | 15     | 124    | <.3    | 60     | 20     | 500    | 3.65 | 82     | <8    | <2     | 11     | 125    | .8     | <3     | <3     | 43    | 6.56 | .083 | 30     | 42     | 1.34 | 375    | .01  | <3    | 1.69 | .01  | .16 | <2    | 2       |
| D 529            | 1      | 42     | 14     | 61     | <.3    | 45     | 13     | 329    | 2.41 | 51     | <8    | <2     | 3      | 48     | <.2    | <3     | <3     | 37    | 1.15 | .087 | 19     | 34     | .68  | 366    | .01  | 3     | 1.23 | .02  | .09 | <2    | 1       |
| D 530            | 1      | 23     | 9      | 72     | <.3    | 43     | 17     | 183    | 3.70 | 55     | <8    | <2     | 9      | 11     | <.2    | <3     | 3      | 44    | .14  | .021 | 34     | 38     | .96  | 207    | .01  | <3    | 2.09 | .01  | .05 | <2    | <1      |
| D 531            | 1      | 52     | 26     | 189    | <.3    | 41     | 18     | 455    | 3.62 | 70     | <8    | <2     | 3      | 33     | .9     | <3     | 3      | 42    | .84  | .068 | 23     | 33     | .94  | 160    | .03  | <3    | 1.41 | .01  | .07 | <2    | 1       |
| D 532            | 1      | 14     | 8      | 53     | <.3    | 19     | 10     | 178    | 2.83 | 17     | <8    | <2     | 6      | 18     | <.2    | <3     | <3     | 26    | .40  | .023 | 30     | 21     | .38  | 138    | <.01 | <3    | 1.58 | .02  | .04 | <2    | 1       |
| D 533            | <1     | 58     | 17     | 113    | <.3    | 73     | 36     | 317    | 5.86 | 21     | <8    | <2     | 13     | 57     | .6     | <3     | <3     | 3     | 3.60 | .065 | 13     | 4      | .87  | 32     | <.01 | <3    | .24  | .01  | .04 | <2    | <1      |
| STANDARD C3/AU-S | 27     | 65     | 38     | 172    | 5.7    | 38     | 12     | 766    | 3.55 | 57     | 22    | 4      | 21     | 31     | 24.1   | 16     | 24     | 86    | .62  | .087 | 18     | 177    | .67  | 152    | .10  | 18    | 1.99 | .04  | .18 | 19    | 46      |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: P1 ROCK P2 TO PB SOIL AU\* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED (10 GM) (FOR P2 TO PB ONLY)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 17 1997 DATE REPORT MAILED: July 25/97 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only. Data FA



| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| D 534            | 1         | 20        | 11        | 53        | <.3       | 25        | 14        | 425       | 3.47    | 97        | <8       | <2        | 3         | 34        | <.2       | <3        | <3        | 22       | 1.15    | .035   | 17        | 16        | .26     | 123       | <.01    | <3       | 1.10    | .01     | .04    | <2       | <1         |
| D 535            | <1        | 23        | 9         | 36        | <.3       | 33        | 18        | 552       | 4.57    | 55        | <8       | <2        | 9         | 62        | .3        | <3        | <3        | 12       | 5.83    | .040   | 14        | 9         | .57     | 86        | <.01    | <3       | .66     | <.01    | .03    | <2       | <1         |
| D 536            | <1        | 262       | 52        | 263       | .4        | 106       | 48        | 336       | 7.20    | 26        | <8       | <2        | 8         | 41        | 2.1       | <3        | 7         | 5        | 3.41    | .049   | 28        | 10        | .53     | 44        | <.01    | <3       | .77     | <.01    | .04    | <2       | 2          |
| D 537            | 1         | 10        | 17        | 149       | <.3       | 20        | 12        | 368       | 3.32    | 35        | <8       | <2        | 6         | 9         | <.2       | <3        | <3        | 47       | .13     | .020   | 26        | 31        | .55     | 319       | .01     | <3       | 1.89    | .01     | .03    | <2       | <1         |
| D 538            | 1         | 242       | 30        | 829       | <.3       | 103       | 41        | 454       | 5.64    | 67        | <8       | <2        | 15        | 17        | 2.9       | <3        | 3         | 9        | .27     | .027   | 43        | 13        | .60     | 54        | <.01    | <3       | 1.01    | <.01    | .04    | <2       | 3          |
| D 539            | 1         | 56        | 9         | 41        | <.3       | 59        | 22        | 497       | 4.30    | 31        | <8       | <2        | 11        | 62        | .2        | <3        | <3        | 11       | 5.76    | .044   | 39        | 16        | .50     | 91        | <.01    | <3       | .82     | <.01    | .04    | <2       | <1         |
| D 541            | 1         | 39        | 15        | 163       | .3        | 35        | 16        | 556       | 2.99    | 40        | <8       | <2        | <2        | 60        | 1.2       | <3        | <3        | 47       | 1.32    | .090   | 11        | 36        | .68     | 508       | .01     | <3       | 1.50    | .01     | .06    | <2       | <1         |
| D 542            | 1         | 22        | 12        | 73        | .3        | 33        | 12        | 290       | 3.09    | 58        | <8       | <2        | 2         | 29        | <.2       | <3        | <3        | 36       | .55     | .043   | 15        | 32        | .67     | 192       | .02     | <3       | 1.04    | .01     | .07    | <2       | 3          |
| D 543            | 1         | 29        | 12        | 71        | <.3       | 36        | 13        | 242       | 2.86    | 40        | <8       | <2        | 2         | 44        | <.2       | <3        | <3        | 29       | 1.17    | .043   | 18        | 24        | .62     | 211       | <.01    | <3       | 1.11    | .01     | .07    | <2       | 1          |
| D 544            | 1         | 45        | 7         | 84        | <.3       | 53        | 17        | 345       | 3.83    | 54        | <8       | <2        | 7         | 28        | <.2       | <3        | 4         | 38       | .70     | .062   | 27        | 39        | 1.08    | 256       | <.01    | <3       | 1.60    | .01     | .10    | <2       | 1          |
| D 545            | 2         | 38        | 13        | 62        | .4        | 42        | 17        | 540       | 3.22    | 41        | <8       | <2        | <2        | 32        | <.2       | <3        | <3        | 40       | .90     | .054   | 15        | 32        | .63     | 425       | .01     | <3       | 1.19    | .01     | .05    | <2       | 1          |
| D 546            | 1         | 34        | 4         | 47        | <.3       | 27        | 6         | 174       | 1.49    | 19        | <8       | <2        | <2        | 62        | .5        | <3        | <3        | 19       | 1.79    | .065   | 7         | 16        | .43     | 198       | .01     | 3        | .77     | .03     | .05    | <2       | <1         |
| D 547            | 2         | 41        | 8         | 86        | <.3       | 44        | 16        | 269       | 3.43    | 66        | <8       | <2        | 4         | 33        | <.2       | <3        | <3        | 44       | .84     | .072   | 19        | 43        | 1.00    | 238       | .01     | <3       | 1.47    | .01     | .10    | <2       | 1          |
| RE D 547         | 1         | 41        | 11        | 85        | <.3       | 44        | 16        | 276       | 3.49    | 68        | <8       | <2        | 4         | 34        | <.2       | <3        | <3        | 46       | .85     | .073   | 20        | 44        | 1.00    | 245       | .01     | <3       | 1.50    | .01     | .10    | <2       | 1          |
| D 548            | 1         | 28        | 6         | 70        | <.3       | 32        | 12        | 331       | 2.34    | 34        | <8       | <2        | 2         | 31        | <.2       | <3        | <3        | 26       | .73     | .083   | 19        | 22        | .53     | 164       | .01     | <3       | .93     | .02     | .07    | <2       | <1         |
| D 549            | 1         | 37        | 35        | 81        | <.3       | 42        | 15        | 328       | 3.07    | 140       | <8       | <2        | 3         | 26        | <.2       | <3        | <3        | 25       | .64     | .068   | 19        | 21        | .47     | 122       | <.01    | <3       | .91     | .01     | .06    | <2       | 2          |
| D 550            | 1         | 29        | 11        | 82        | <.3       | 32        | 15        | 454       | 2.87    | 99        | <8       | <2        | <2        | 41        | .2        | <3        | <3        | 24       | .85     | .061   | 14        | 18        | .64     | 126       | .01     | <3       | 1.00    | .01     | .06    | <2       | <1         |
| D 551            | 2         | 42        | 10        | 88        | <.3       | 50        | 23        | 741       | 4.57    | 69        | <8       | <2        | 6         | 14        | <.2       | <3        | <3        | 54       | .19     | .032   | 27        | 55        | 1.14    | 301       | .01     | <3       | 1.97    | <.01    | .07    | <2       | 1          |
| D 552            | 1         | 45        | 13        | 131       | <.3       | 37        | 23        | 575       | 5.40    | 73        | <8       | <2        | 5         | 38        | .2        | <3        | 3         | 69       | .79     | .162   | 25        | 29        | 1.60    | 255       | .12     | <3       | 1.82    | .01     | .28    | <2       | 1          |
| D 553            | 2         | 23        | 20        | 96        | <.3       | 34        | 10        | 216       | 3.02    | 61        | <8       | <2        | 3         | 23        | <.2       | <3        | <3        | 56       | .41     | .029   | 18        | 42        | .77     | 548       | .01     | <3       | 1.67    | .01     | .07    | <2       | <1         |
| D 554            | <1        | 33        | 62        | 118       | <.3       | 41        | 24        | 310       | 2.75    | 77        | <8       | <2        | 11        | 140       | .4        | <3        | <3        | 5        | 12.57   | .042   | 7         | 7         | .38     | 89        | <.01    | <3       | .40     | .01     | .05    | <2       | 2          |
| D 555            | 1         | 33        | 82        | 71        | .3        | 52        | 24        | 302       | 4.65    | 100       | <8       | <2        | 8         | 16        | <.2       | <3        | <3        | 45       | .23     | .019   | 21        | 50        | .60     | 142       | <.01    | <3       | 2.11    | .01     | .04    | <2       | <1         |
| D 556            | 1         | 125       | 29        | 116       | <.3       | 113       | 49        | 964       | 7.07    | 1199      | <8       | <2        | 16        | 18        | <.2       | <3        | 3         | 13       | .32     | .027   | 20        | 26        | .59     | 64        | <.01    | <3       | 1.38    | <.01    | .04    | <2       | 4          |
| D 557            | 2         | 21        | 14        | 66        | <.3       | 36        | 20        | 500       | 4.86    | 64        | <8       | <2        | 5         | 19        | <.2       | <3        | <3        | 47       | .32     | .025   | 15        | 41        | .57     | 516       | <.01    | <3       | 2.17    | <.01    | .03    | <2       | <1         |
| D 558            | 1         | 37        | 16        | 66        | <.3       | 45        | 14        | 353       | 3.77    | 48        | <8       | <2        | 8         | 22        | <.2       | <3        | <3        | 22       | .53     | .048   | 33        | 25        | .65     | 153       | <.01    | <3       | 1.40    | .01     | .03    | <2       | <1         |
| D 559            | 1         | 65        | 22        | 94        | <.3       | 72        | 23        | 529       | 4.11    | 115       | <8       | <2        | 9         | 55        | <.2       | <3        | <3        | 37       | 2.62    | .075   | 27        | 50        | 1.37    | 216       | <.01    | <3       | 1.80    | .01     | .08    | <2       | 2          |
| D 560            | 1         | 24        | 12        | 81        | <.3       | 39        | 18        | 387       | 4.45    | 109       | <8       | <2        | 5         | 22        | <.2       | <3        | <3        | 54       | .47     | .027   | 21        | 49        | .95     | 441       | <.01    | <3       | 2.26    | <.01    | .05    | <2       | <1         |
| D 561            | 3         | 84        | 13        | 82        | <.3       | 53        | 23        | 395       | 5.63    | 67        | <8       | <2        | 4         | 14        | <.2       | <3        | <3        | 35       | .21     | .026   | 17        | 28        | .52     | 255       | <.01    | <3       | 1.26    | .01     | .06    | 2        | 4          |
| D 562            | 1         | 59        | 230       | 170       | 1.3       | 57        | 24        | 630       | 4.07    | 1596      | <8       | <2        | 4         | 50        | .5        | <3        | 3         | 24       | 1.23    | .084   | 21        | 33        | .98     | 140       | <.01    | <3       | 1.45    | .01     | .05    | <2       | 3          |
| D 563            | 1         | 45        | 123       | 132       | .4        | 43        | 17        | 370       | 3.26    | 461       | <8       | <2        | 2         | 52        | .3        | <3        | <3        | 21       | 1.40    | .082   | 18        | 18        | .53     | 132       | <.01    | <3       | .93     | .01     | .06    | <2       | 2          |
| D 564            | 1         | 29        | 11        | 66        | .3        | 42        | 19        | 823       | 3.58    | 24        | <8       | <2        | 6         | 32        | <.2       | <3        | <3        | 19       | 2.20    | .057   | 33        | 17        | .38     | 177       | <.01    | <3       | .89     | <.01    | .05    | <2       | <1         |
| D 565            | 33        | 109       | 60        | 110       | .7        | 93        | 16        | 253       | 4.72    | 98        | <8       | <2        | 2         | 22        | .8        | 5         | <3        | 97       | .27     | .288   | 15        | 30        | .31     | 170       | .01     | <3       | 1.11    | .01     | .10    | <2       | 12         |
| D 566            | 2         | 82        | 8         | 64        | .6        | 63        | 17        | 510       | 3.23    | 32        | <8       | <2        | <2        | 56        | .4        | <3        | <3        | 49       | 1.41    | .075   | 13        | 47        | .85     | 358       | .01     | <3       | 1.56    | .01     | .06    | <2       | 1          |
| D 567            | 2         | 27        | 6         | 89        | <.3       | 36        | 19        | 419       | 3.74    | 9         | <8       | <2        | 12        | 13        | <.2       | <3        | <3        | 10       | .31     | .040   | 46        | 18        | .62     | 55        | <.01    | <3       | 1.06    | <.01    | .03    | <2       | <1         |
| D 568            | 1         | 19        | 3         | 31        | <.3       | 14        | 5         | 126       | 1.27    | 12        | <8       | <2        | <2        | 25        | <.2       | <3        | <3        | 29       | .56     | .036   | 7         | 13        | .21     | 371       | .01     | <3       | .68     | .02     | .06    | <2       | <1         |
| STANDARD C3/AU-S | 27        | 66        | 36        | 176       | 5.8       | 39        | 13        | 777       | 3.56    | 54        | 22       | 3         | 19        | 30        | 25.2      | 14        | 23        | 85       | .61     | .090   | 17        | 176       | .66     | 153       | .09     | 20       | 1.96    | .04     | .16    | 23       | 43         |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| D 569            | 2         | 24        | 13        | 45        | <.3       | 24        | 12        | 539       | 2.45    | 33        | <8       | <2        | 2         | 33        | <.2       | <3        | <3        | 46       | .69     | .043   | 14        | 28        | .48     | 382       | .01     | <3       | 1.34    | .01     | .05    | <2       | 1          |
| D 570            | 7         | 116       | 7         | 153       | .7        | 107       | 34        | 367       | 6.12    | 43        | <8       | <2        | <2        | 35        | <.2       | <3        | <3        | 34       | .84     | .123   | 23        | 20        | .39     | 151       | <.01    | <3       | .77     | .01     | .08    | <2       | 3          |
| D 571            | 1         | 35        | 12        | 79        | <.3       | 40        | 16        | 165       | 3.90    | 23        | <8       | <2        | 11        | 21        | <.2       | <3        | <3        | 21       | .68     | .102   | 48        | 27        | 1.11    | 108       | <.01    | <3       | 1.70    | <.01    | .05    | <2       | 1          |
| D 572            | 2         | 23        | 11        | 83        | <.3       | 40        | 16        | 278       | 3.61    | 57        | <8       | <2        | 6         | 12        | <.2       | <3        | <3        | 70       | .17     | .024   | 25        | 60        | 1.02    | 375       | .01     | <3       | 2.22    | <.01    | .07    | <2       | 1          |
| D 573            | 3         | 27        | 14        | 67        | <.3       | 29        | 17        | 591       | 3.67    | 59        | <8       | <2        | 4         | 24        | <.2       | <3        | <3        | 52       | .32     | .041   | 20        | 41        | 1.14    | 211       | .06     | <3       | 1.39    | .01     | .09    | <2       | 1          |
| D 574            | 1         | 24        | 9         | 38        | <.3       | 15        | 6         | 257       | 1.60    | 11        | <8       | <2        | <2        | 49        | <.2       | <3        | <3        | 27       | .66     | .075   | 10        | 16        | .77     | 158       | .05     | 3        | .88     | .03     | .10    | <2       | <1         |
| D 575            | 1         | 37        | 18        | 74        | <.3       | 45        | 21        | 511       | 4.45    | 59        | <8       | <2        | 11        | 11        | <.2       | <3        | <3        | 17       | .14     | .028   | 33        | 26        | .46     | 159       | <.01    | <3       | .96     | <.01    | .05    | <2       | <1         |
| D 576            | <1        | 23        | 8         | 58        | <.3       | 20        | 10        | 367       | 2.32    | 11        | <8       | <2        | 2         | 41        | <.2       | <3        | <3        | 25       | .81     | .066   | 16        | 16        | .90     | 120       | .06     | <3       | 1.01    | .02     | .09    | <2       | <1         |
| D 577            | 2         | 9         | 12        | 68        | <.3       | 11        | 12        | 234       | 5.52    | 23        | <8       | <2        | 3         | 22        | <.2       | <3        | <3        | 72       | .28     | .067   | 28        | 18        | 1.27    | 174       | .18     | <3       | 2.09    | .01     | .39    | <2       | <1         |
| D 578            | 1         | 19        | 8         | 63        | <.3       | 15        | 17        | 275       | 6.53    | 30        | <8       | <2        | 4         | 16        | <.2       | <3        | <3        | 75       | .18     | .078   | 29        | 21        | 1.32    | 147       | .13     | <3       | 2.31    | <.01    | .18    | <2       | <1         |
| D 579            | 1         | 19        | 14        | 56        | <.3       | 27        | 11        | 223       | 3.53    | 44        | <8       | <2        | 5         | 8         | <.2       | <3        | <3        | 57       | .08     | .017   | 24        | 39        | .98     | 168       | .02     | <3       | 1.66    | .01     | .06    | <2       | <1         |
| RE D 579         | 1         | 20        | 14        | 56        | <.3       | 28        | 12        | 226       | 3.60    | 45        | <8       | <2        | 6         | 8         | <.2       | <3        | <3        | 58       | .08     | .018   | 26        | 39        | .99     | 169       | .02     | <3       | 1.69    | .01     | .06    | <2       | 1          |
| D 580            | 1         | 109       | <3        | 67        | <.3       | 53        | 51        | 581       | 8.68    | 17        | <8       | <2        | 4         | 18        | .8        | <3        | <3        | 298      | .25     | .093   | 36        | 37        | 3.99    | 160       | .23     | <3       | 4.33    | <.01    | .13    | <2       | <1         |
| D 581            | 2         | 8         | <3        | 59        | <.3       | 1         | 19        | 549       | 9.13    | 4         | <8       | <2        | 3         | 33        | .6        | <3        | <3        | 30       | .56     | .271   | 44        | 2         | 2.50    | 309       | .38     | <3       | 3.75    | .01     | .99    | <2       | <1         |
| D 582            | 3         | 17        | 14        | 67        | <.3       | 28        | 12        | 248       | 3.53    | 49        | <8       | <2        | 5         | 12        | <.2       | <3        | <3        | 53       | .12     | .023   | 21        | 41        | .60     | 229       | .02     | <3       | 1.31    | .01     | .08    | <2       | <1         |
| D 583            | 1         | 43        | 6         | 75        | <.3       | 37        | 15        | 210       | 3.31    | 20        | <8       | <2        | 9         | 19        | <.2       | <3        | <3        | 16       | 1.36    | .060   | 40        | 19        | .68     | 143       | <.01    | <3       | 1.09    | <.01    | .08    | <2       | 1          |
| D 584            | 1         | 35        | 9         | 67        | .3        | 32        | 15        | 363       | 3.45    | 16        | <8       | <2        | 5         | 30        | .3        | <3        | <3        | 13       | 1.04    | .116   | 42        | 17        | .52     | 121       | <.01    | <3       | .96     | <.01    | .05    | <2       | 1          |
| D 585            | 1         | 42        | 12        | 110       | <.3       | 41        | 14        | 225       | 2.87    | 47        | <8       | <2        | <2        | 41        | .3        | <3        | <3        | 35       | 1.01    | .069   | 17        | 31        | .92     | 170       | .02     | <3       | 1.26    | .01     | .07    | <2       | 1          |
| D 586            | 1         | 22        | 11        | 51        | <.3       | 32        | 10        | 183       | 2.83    | 26        | <8       | <2        | 5         | 14        | <.2       | <3        | <3        | 46       | .22     | .065   | 26        | 42        | .76     | 299       | .02     | <3       | 1.41    | <.01    | .05    | <2       | 2          |
| D 587            | 2         | 11        | 10        | 68        | <.3       | 25        | 8         | 158       | 3.01    | 20        | <8       | <2        | 5         | 7         | <.2       | <3        | <3        | 62       | .07     | .018   | 23        | 43        | .65     | 253       | .02     | <3       | 1.64    | <.01    | .04    | <2       | <1         |
| D 588            | 1         | 42        | 14        | 88        | <.3       | 63        | 17        | 416       | 3.33    | 90        | <8       | <2        | <2        | 42        | .4        | <3        | <3        | 39       | 1.19    | .075   | 17        | 79        | 1.07    | 180       | .01     | <3       | 1.49    | .01     | .06    | <2       | <1         |
| D 589            | 1         | 45        | 9         | 71        | .3        | 63        | 19        | 567       | 3.79    | 58        | <8       | <2        | 7         | 30        | <.2       | <3        | <3        | 26       | .84     | .095   | 40        | 55        | 1.00    | 115       | <.01    | <3       | 1.34    | .01     | .05    | <2       | <1         |
| D 590            | 1         | 10        | 7         | 34        | <.3       | 17        | 7         | 207       | 1.71    | 15        | <8       | <2        | 2         | 16        | <.2       | <3        | <3        | 31       | .19     | .027   | 12        | 18        | .27     | 258       | .02     | <3       | .96     | .02     | .03    | <2       | <1         |
| D 591            | 2         | 12        | 13        | 60        | <.3       | 22        | 13        | 237       | 3.67    | 57        | <8       | <2        | 7         | 14        | <.2       | <3        | <3        | 49       | .22     | .019   | 29        | 28        | .44     | 318       | .01     | <3       | 1.96    | .01     | .04    | <2       | <1         |
| D 592            | 1         | 49        | 12        | 61        | <.3       | 46        | 20        | 610       | 4.62    | 74        | <8       | <2        | 7         | 27        | <.2       | <3        | <3        | 20       | .67     | .048   | 33        | 27        | .57     | 180       | <.01    | <3       | 1.10    | .01     | .04    | <2       | <1         |
| D 593            | 1         | 49        | 15        | 72        | .4        | 48        | 17        | 421       | 3.11    | 64        | <8       | <2        | 2         | 48        | .5        | <3        | <3        | 30       | 1.84    | .086   | 21        | 31        | .65     | 267       | .01     | <3       | 1.16    | .01     | .07    | <2       | 1          |
| D 594            | 1         | 45        | 16        | 102       | .3        | 60        | 20        | 663       | 3.92    | 57        | <8       | <2        | 7         | 31        | .6        | <3        | <3        | 43       | .81     | .091   | 32        | 46        | 1.17    | 299       | .01     | <3       | 1.68    | .01     | .12    | <2       | 1          |
| D 595            | 1         | 39        | 11        | 63        | <.3       | 39        | 12        | 281       | 2.84    | 89        | <8       | <2        | <2        | 40        | <.2       | <3        | <3        | 35       | 1.23    | .072   | 16        | 32        | .66     | 291       | .01     | <3       | 1.25    | .02     | .06    | <2       | 7          |
| D 596            | 1         | 43        | 13        | 72        | <.3       | 61        | 19        | 441       | 3.62    | 67        | <8       | <2        | 6         | 22        | <.2       | <3        | <3        | 50       | .45     | .081   | 27        | 68        | 1.18    | 278       | .01     | <3       | 1.75    | .01     | .08    | <2       | 1          |
| D 597            | 2         | 29        | 8         | 64        | <.3       | 51        | 19        | 385       | 3.95    | 71        | <8       | <2        | 5         | 17        | <.2       | <3        | <3        | 69       | .26     | .025   | 21        | 86        | 1.07    | 423       | .02     | <3       | 2.01    | <.01    | .06    | <2       | 3          |
| D 598            | 1         | 30        | 12        | 54        | <.3       | 39        | 13        | 270       | 3.08    | 247       | <8       | <2        | 12        | 16        | <.2       | <3        | <3        | 20       | .34     | .059   | 47        | 37        | 1.15    | 113       | .01     | <3       | 1.55    | .01     | .04    | <2       | 1          |
| D 599            | 6         | 16        | 13        | 47        | .7        | 23        | 10        | 214       | 2.71    | 36        | <8       | <2        | 2         | 18        | <.2       | <3        | <3        | 86       | .35     | .094   | 20        | 34        | .48     | 330       | .01     | <3       | 1.33    | .01     | .05    | <2       | <1         |
| D 600            | 5         | 42        | 12        | 84        | .4        | 33        | 9         | 275       | 2.63    | 28        | <8       | <2        | 5         | 30        | .2        | <3        | <3        | 50       | .57     | .058   | 28        | 19        | .53     | 181       | .01     | <3       | 1.09    | .01     | .06    | <2       | <1         |
| D 601            | 1         | 41        | 11        | 62        | <.3       | 48        | 17        | 424       | 3.95    | 78        | <8       | <2        | 6         | 15        | <.2       | <3        | <3        | 60       | .19     | .019   | 25        | 50        | .86     | 350       | .01     | <3       | 1.92    | .01     | .06    | <2       | 1          |
| D 602            | 1         | 23        | 22        | 51        | <.3       | 33        | 12        | 293       | 3.25    | 59        | <8       | <2        | 3         | 12        | <.2       | <3        | <3        | 44       | .32     | .025   | 13        | 34        | .47     | 229       | .01     | <3       | 2.07    | .01     | .07    | <2       | <1         |
| STANDARD C3/AU-S | 25        | 63        | 38        | 165       | 5.6       | 36        | 12        | 746       | 3.44    | 53        | 20       | 2         | 18        | 30        | 23.5      | 15        | 24        | 84       | .58     | .085   | 17        | 173       | .63     | 149       | .10     | 18       | 1.92    | .04     | .17    | 22       | 47         |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



| SAMPLE#            | Mo  | Cu  | Pb  | Zn  | Ag  | Ni  | Co  | Mn  | Fe   | As  | U   | Au  | Th  | Sr  | Cd   | Sb  | Bi  | V   | Ca   | P    | La  | Cr  | Mg   | Ba  | Ti   | B  | Al   | Na   | K   | W   | Au* |   |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----|------|-----|------|----|------|------|-----|-----|-----|---|
|                    | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | %    | ppm | ppm | ppm | ppm | ppm | ppm  | ppm | ppm | ppm | %    | %    | ppm | ppm | %    | ppm | %    | %  | %    | %    | %   | ppm | ppb |   |
| D 603              | 1   | 13  | 18  | 66  | <.3 | 37  | 14  | 437 | 3.22 | 56  | <8  | <2  | 5   | 32  | .5   | <3  | <3  | 41  | .83  | .021 | 14  | 47  | 1.06 | 143 | .05  | 3  | 2.36 | .01  | .09 | <2  | <1  |   |
| D 604              | <1  | 58  | 6   | 32  | <.3 | 43  | 18  | 698 | 4.45 | 52  | <8  | <2  | 10  | 115 | .4   | <3  | 3   | 4   | 8.12 | .034 | 25  | 5   | 2.40 | 36  | <.01 | <3 | .43  | <.01 | .04 | <2  | 3   |   |
| D 605              | <1  | 31  | 13  | 51  | <.3 | 28  | 13  | 292 | 3.02 | 4   | <8  | <2  | 8   | 92  | <.2  | <3  | <3  | 9   | 4.11 | .031 | 35  | 15  | 1.35 | 56  | <.01 | <3 | 1.55 | .01  | .03 | <2  | 1   |   |
| D 606              | 2   | 62  | 21  | 115 | .4  | 68  | 19  | 520 | 3.60 | 103 | <8  | <2  | 4   | 66  | .7   | <3  | <3  | 57  | 2.18 | .089 | 21  | 51  | 1.05 | 498 | .01  | <3 | 1.57 | .01  | .14 | <2  | 2   |   |
| D 607              | 2   | 57  | 15  | 92  | <.3 | 65  | 22  | 675 | 4.68 | 100 | <8  | <2  | 4   | 16  | <.2  | <3  | <3  | 63  | .23  | .055 | 26  | 56  | .93  | 408 | .01  | <3 | 1.81 | .01  | .11 | <2  | 2   |   |
| D 608              | 1   | 35  | 11  | 84  | <.3 | 36  | 13  | 386 | 2.62 | 67  | <8  | <2  | <2  | 40  | <.2  | <3  | <3  | 33  | .81  | .082 | 16  | 32  | .76  | 157 | .01  | <3 | .99  | .02  | .05 | <2  | 1   |   |
| D 609              | 3   | 39  | 11  | 54  | <.3 | 59  | 16  | 389 | 2.87 | 63  | <8  | <2  | 2   | 37  | <.2  | <3  | <3  | 54  | .69  | .029 | 15  | 68  | .86  | 287 | .01  | <3 | 1.60 | .02  | .07 | <2  | 1   |   |
| D 610              | 1   | 28  | 14  | 61  | <.3 | 35  | 16  | 320 | 3.38 | 57  | <8  | <2  | 7   | 45  | <.2  | <3  | <3  | 20  | 1.55 | .044 | 37  | 29  | 1.47 | 88  | <.01 | <3 | 1.76 | .01  | .05 | <2  | 1   |   |
| D 611              | 1   | 64  | 9   | 90  | <.3 | 111 | 22  | 473 | 4.23 | 46  | <8  | <2  | <2  | 45  | .2   | <3  | <3  | 88  | 1.15 | .080 | 15  | 233 | 2.60 | 241 | .04  | <3 | 2.69 | .01  | .09 | <2  | 1   |   |
| D 612              | 1   | 44  | 12  | 90  | <.3 | 94  | 24  | 530 | 4.37 | 71  | <8  | <2  | 5   | 23  | <.2  | 5   | <3  | 73  | .47  | .065 | 24  | 165 | 2.16 | 191 | .03  | <3 | 2.44 | .01  | .08 | <2  | 2   |   |
| D 613              | 1   | 56  | 12  | 79  | <.3 | 88  | 22  | 453 | 4.46 | 67  | <8  | <2  | 6   | 40  | .4   | <3  | <3  | 72  | 1.31 | .090 | 28  | 122 | 2.08 | 198 | .02  | <3 | 2.45 | .01  | .11 | <2  | 3   |   |
| D 614              | 2   | 59  | 19  | 98  | .3  | 63  | 23  | 615 | 4.10 | 82  | <8  | <2  | 4   | 40  | .4   | <3  | 3   | 49  | 1.35 | .101 | 26  | 53  | 1.15 | 376 | .01  | <3 | 1.72 | .01  | .11 | <2  | 2   |   |
| D 615              | 1   | 47  | 16  | 102 | <.3 | 67  | 22  | 597 | 4.16 | 87  | <8  | <2  | 7   | 27  | <.2  | <3  | 3   | 51  | .59  | .092 | 31  | 68  | 1.31 | 271 | .01  | <3 | 1.92 | .01  | .13 | <2  | 4   |   |
| D 616              | 1   | 20  | 16  | 72  | <.3 | 44  | 17  | 321 | 3.63 | 37  | <8  | <2  | 7   | 17  | <.2  | <3  | <3  | 45  | .26  | .025 | 39  | 71  | 1.35 | 344 | .01  | <3 | 2.38 | <.01 | .06 | <2  | 1   |   |
| RE D 616           | 1   | 21  | 15  | 74  | <.3 | 46  | 17  | 336 | 3.73 | 39  | <8  | <2  | 7   | 18  | <.2  | <3  | <3  | 46  | .27  | .026 | 39  | 76  | 1.38 | 351 | .01  | <3 | 2.44 | .01  | .06 | <2  | 1   |   |
| D 617              | 1   | 59  | 13  | 85  | <.3 | 96  | 22  | 481 | 4.19 | 77  | <8  | <2  | 7   | 25  | <.2  | <3  | <3  | 54  | .48  | .133 | 32  | 116 | 1.48 | 273 | .02  | <3 | 1.87 | .01  | .08 | <2  | 3   |   |
| D 618              | <1  | 8   | 23  | 82  | <.3 | 31  | 16  | 265 | 3.84 | 56  | <8  | <2  | 5   | 37  | <.2  | <3  | <3  | 17  | .84  | .038 | 37  | 27  | 1.89 | 123 | <.01 | <3 | 2.51 | <.01 | .03 | <2  | <1  |   |
| D 619              | 1   | 24  | 22  | 79  | <.3 | 52  | 26  | 252 | 4.38 | 26  | <8  | <2  | 16  | 16  | .3   | <3  | <3  | 20  | .34  | .040 | 62  | 28  | 2.15 | 131 | <.01 | <3 | 3.19 | <.01 | .05 | <2  | 1   |   |
| D 620              | 2   | 54  | 13  | 66  | <.3 | 52  | 21  | 343 | 4.43 | 67  | <8  | <2  | 6   | 21  | <.2  | <3  | <3  | 82  | .24  | .020 | 30  | 69  | 1.09 | 215 | .01  | <3 | 2.81 | .01  | .08 | <2  | <1  |   |
| D 621              | 1   | 27  | 15  | 62  | <.3 | 33  | 15  | 385 | 3.03 | 70  | <8  | <2  | 4   | 18  | <.2  | <3  | <3  | 40  | .30  | .072 | 22  | 32  | .64  | 193 | .01  | <3 | 1.06 | <.01 | .06 | <2  | 1   |   |
| D 622              | 1   | 6   | 9   | 141 | <.3 | 15  | 7   | 181 | 2.44 | 29  | <8  | <2  | 2   | 12  | <.2  | <3  | <3  | 47  | .19  | .018 | 15  | 27  | .39  | 326 | .01  | <3 | 1.43 | .01  | .07 | <2  | <1  |   |
| D 623              | 1   | 23  | 16  | 64  | <.3 | 36  | 14  | 250 | 3.70 | 25  | <8  | <2  | 8   | 28  | <.2  | <3  | <3  | 20  | .62  | .030 | 38  | 27  | 1.59 | 90  | <.01 | <3 | 2.19 | .01  | .04 | <2  | 1   |   |
| D 624 not received | -   | -   | -   | -   | -   | -   | -   | -   | -    | -   | -   | -   | -   | -   | -    | -   | -   | -   | -    | -    | -   | -   | -    | -   | -    | -  | -    | -    | -   | -   | -   | - |
| D 625              | 2   | 55  | 10  | 91  | <.3 | 65  | 17  | 456 | 3.20 | 76  | <8  | <2  | 3   | 48  | .2   | <3  | <3  | 48  | 1.09 | .111 | 19  | 53  | .87  | 412 | .01  | <3 | 1.46 | .01  | .09 | <2  | 1   |   |
| D 626              | 1   | 35  | 11  | 68  | <.3 | 79  | 20  | 231 | 3.37 | 72  | <8  | <2  | 2   | 37  | <.2  | <3  | 3   | 60  | .75  | .107 | 18  | 154 | 1.60 | 186 | .04  | <3 | 1.74 | .01  | .06 | <2  | 1   |   |
| D 627              | 1   | 57  | 13  | 77  | <.3 | 71  | 19  | 315 | 3.99 | 80  | <8  | <2  | 4   | 21  | <.2  | <3  | <3  | 56  | .49  | .046 | 23  | 100 | 1.17 | 302 | .01  | <3 | 1.77 | .01  | .07 | <2  | 1   |   |
| D 628              | 1   | 60  | 14  | 68  | <.3 | 87  | 28  | 507 | 4.14 | 71  | <8  | <2  | 5   | 19  | <.2  | <3  | 3   | 69  | .34  | .036 | 25  | 162 | 1.57 | 335 | .02  | <3 | 2.24 | .01  | .06 | <2  | 5   |   |
| D 629              | 2   | 43  | 19  | 78  | .3  | 38  | 18  | 370 | 4.17 | 63  | <8  | <2  | 4   | 30  | <.2  | <3  | <3  | 44  | .61  | .079 | 30  | 33  | .74  | 488 | .01  | <3 | 1.42 | <.01 | .04 | <2  | 4   |   |
| D 630              | 10  | 64  | 15  | 109 | .9  | 42  | 12  | 206 | 3.38 | 30  | <8  | <2  | 4   | 20  | <.2  | 3   | <3  | 82  | .35  | .108 | 20  | 22  | .45  | 257 | <.01 | <3 | 1.18 | <.01 | .04 | <2  | 3   |   |
| D 631              | 3   | 35  | 15  | 70  | <.3 | 43  | 12  | 129 | 3.07 | 19  | <8  | <2  | 6   | 12  | <.2  | <3  | <3  | 49  | .16  | .042 | 25  | 35  | .53  | 253 | .02  | <3 | 1.42 | .01  | .06 | <2  | 2   |   |
| D 632              | 5   | 32  | 15  | 63  | <.3 | 29  | 11  | 231 | 3.18 | 29  | <8  | <2  | 5   | 13  | <.2  | <3  | <3  | 52  | .22  | .069 | 27  | 30  | .49  | 230 | .01  | <3 | 1.28 | <.01 | .05 | <2  | 2   |   |
| D 633              | 3   | 36  | 12  | 69  | <.3 | 47  | 16  | 334 | 4.11 | 97  | <8  | <2  | 3   | 22  | <.2  | <3  | <3  | 63  | .47  | .054 | 21  | 56  | .94  | 372 | .01  | <3 | 1.83 | .01  | .08 | <2  | 1   |   |
| D 634              | 3   | 36  | 16  | 79  | <.3 | 71  | 29  | 713 | 4.49 | 180 | <8  | <2  | 3   | 23  | <.2  | 3   | <3  | 56  | .41  | .060 | 22  | 42  | .61  | 426 | .01  | <3 | 1.47 | .01  | .06 | <2  | 3   |   |
| D 635              | 2   | 48  | 16  | 87  | <.3 | 61  | 20  | 668 | 3.67 | 111 | <8  | <2  | 4   | 29  | <.2  | <3  | <3  | 56  | .54  | .094 | 23  | 51  | .98  | 306 | .02  | <3 | 1.48 | .01  | .09 | <2  | 3   |   |
| D 636              | 2   | 74  | 15  | 77  | .3  | 60  | 17  | 343 | 4.26 | 108 | <8  | <2  | 2   | 27  | .3   | <3  | <3  | 49  | .49  | .053 | 22  | 40  | .75  | 608 | .01  | <3 | 1.45 | .01  | .07 | <2  | 5   |   |
| STANDARD C3/AU-S   | 25  | 62  | 36  | 166 | 5.6 | 35  | 12  | 750 | 3.55 | 55  | 20  | 3   | 18  | 31  | 24.1 | 14  | 24  | 82  | .61  | .086 | 17  | 170 | .64  | 150 | .10  | 20 | 1.96 | .04  | .17 | 21  | 55  |   |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



ACME ANALYTICAL

Pacific Bay Minerals Ltd. PROJECT DOT CLAIMS FILE # 97-3664



ACME ANALYTICAL

| SAMPLE#          | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe %  | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P %  | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K %  | W ppm | Au* ppb |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|-------|------|------|--------|--------|------|--------|------|-------|------|------|------|-------|---------|
| D 637            | 3      | 59     | 16     | 143    | .3     | 74     | 21     | 529    | 3.50  | 73     | <8    | <2     | 5      | 76     | 1.2    | 3      | <3     | 60    | 2.74 | .121 | 20     | 55     | 1.28 | 531    | .02  | <3    | 1.62 | .01  | .21  | <2    | 3       |
| D 638            | 4      | 58     | 23     | 81     | .6     | 52     | 20     | 545    | 4.11  | 65     | <8    | <2     | 5      | 26     | <2     | <3     | <3     | 41    | .48  | .107 | 23     | 32     | .62  | 272    | .01  | <3    | 1.01 | .01  | .04  | <2    | 13      |
| D 639            | 3      | 68     | 19     | 115    | .4     | 79     | 24     | 525    | 4.24  | 154    | <8    | <2     | 4      | 27     | <2     | <3     | <3     | 62    | .48  | .067 | 24     | 62     | 1.11 | 496    | .01  | <3    | 1.76 | .01  | .10  | <2    | 5       |
| D 640            | 3      | 33     | 17     | 77     | .3     | 37     | 17     | 633    | 3.41  | 83     | <8    | <2     | <2     | 27     | <2     | <3     | <3     | 47    | .55  | .083 | 13     | 35     | .60  | 402    | .01  | <3    | 1.20 | .01  | .03  | <2    | 1       |
| D 641            | 9      | 73     | 24     | 69     | .3     | 55     | 20     | 486    | 5.00  | 33     | <8    | <2     | 4      | 23     | <2     | 4      | <3     | 90    | .57  | .037 | 14     | 22     | .39  | 250    | <.01 | <3    | 1.39 | .01  | .06  | <2    | 1       |
| D 642            | 6      | 69     | 20     | 119    | .9     | 57     | 17     | 400    | 3.46  | 28     | <8    | <2     | 4      | 46     | .6     | 3      | <3     | 47    | 2.49 | .129 | 18     | 27     | .99  | 235    | .02  | <3    | .90  | .01  | .05  | <2    | 4       |
| D 643            | 2      | 24     | 14     | 61     | <.3    | 30     | 14     | 254    | 3.50  | 36     | <8    | <2     | 3      | 12     | <2     | <3     | <3     | 61    | .13  | .046 | 22     | 42     | .79  | 224    | .01  | <3    | 1.72 | .01  | .05  | 2     | <1      |
| D 644            | 1      | 55     | 9      | 52     | <.3    | 77     | 25     | 631    | 3.72  | 30     | <8    | <2     | <2     | 32     | <2     | <3     | <3     | 91    | .44  | .065 | 9      | 186    | 2.26 | 260    | .08  | <3    | 2.24 | .01  | .05  | <2    | 1       |
| D 645            | 2      | 12     | 14     | 32     | <.3    | 19     | 8      | 125    | 3.11  | 27     | <8    | <2     | 3      | 12     | <2     | <3     | <3     | 48    | .19  | .065 | 24     | 32     | .71  | 204    | .04  | <3    | 1.41 | <.01 | .08  | <2    | <1      |
| D 646            | 2      | 43     | 8      | 93     | <.3    | 15     | 28     | 728    | 8.59  | 11     | <8    | <2     | 2      | 33     | <2     | <3     | <3     | 180   | .58  | .138 | 20     | 7      | 3.05 | 450    | .55  | <3    | 3.65 | .01  | .52  | <2    | 1       |
| D 647            | 2      | 112    | <3     | 91     | <.3    | 22     | 30     | 701    | 7.64  | 5      | <8    | <2     | <2     | 48     | .2     | <3     | <3     | 258   | .66  | .085 | 17     | 4      | 2.46 | 517    | .41  | <3    | 3.22 | .01  | 1.03 | <2    | 1       |
| D 648            | 1      | 39     | 5      | 57     | <.3    | 15     | 12     | 199    | 2.72  | 7      | <8    | <2     | <2     | 46     | <2     | <3     | 3      | 73    | .75  | .098 | 8      | 10     | 1.10 | 251    | .13  | <3    | 1.47 | .02  | .28  | <2    | <1      |
| RE D 648         | 1      | 42     | <3     | 60     | <.3    | 15     | 13     | 214    | 2.89  | 8      | <8    | <2     | <2     | 50     | <2     | <3     | <3     | 77    | .81  | .102 | 9      | 10     | 1.20 | 274    | .14  | <3    | 1.60 | .02  | .30  | <2    | <1      |
| D 649            | 2      | 36     | 14     | 57     | <.3    | 25     | 20     | 873    | 3.81  | 25     | <8    | <2     | 2      | 20     | <2     | <3     | <3     | 85    | .27  | .039 | 19     | 30     | .97  | 445    | .07  | <3    | 1.84 | .01  | .06  | <2    | <1      |
| D 650            | 2      | 36     | 13     | 64     | <.3    | 32     | 20     | 1130   | 3.78  | 45     | <8    | <2     | 2      | 78     | .3     | <3     | <3     | 51    | 1.11 | .096 | 17     | 29     | 1.23 | 215    | .06  | <3    | 1.48 | .01  | .10  | <2    | 2       |
| D 651            | <1     | 38     | 14     | 112    | <.3    | 47     | 21     | 707    | 4.57  | 28     | <8    | <2     | 7      | 23     | <2     | <3     | <3     | 67    | .39  | .044 | 20     | 47     | 2.49 | 221    | .23  | <3    | 2.52 | .01  | .47  | <2    | <1      |
| D 652            | 1      | 70     | 7      | 39     | <.3    | 22     | 16     | 292    | 3.36  | 8      | <8    | <2     | <2     | 12     | <2     | <3     | 3      | 109   | .19  | .053 | 14     | 15     | 1.13 | 146    | .11  | <3    | 1.52 | .01  | .12  | <2    | 3       |
| D 653            | 1      | 36     | 6      | 38     | <.3    | 14     | 10     | 278    | 2.06  | 8      | <8    | <2     | <2     | 33     | <2     | <3     | <3     | 52    | .50  | .070 | 7      | 9      | .63  | 121    | .06  | <3    | .91  | .03  | .07  | <2    | <1      |
| D 654            | 1      | 67     | 12     | 80     | <.3    | 32     | 20     | 521    | 4.20  | 34     | <8    | <2     | 2      | 43     | <2     | <3     | 3      | 110   | .79  | .050 | 15     | 21     | 1.42 | 332    | .12  | <3    | 1.82 | .02  | .19  | <2    | 1       |
| D 655            | <1     | 100    | 6      | 70     | <.3    | 34     | 20     | 398    | 4.10  | 9      | <8    | <2     | <2     | 55     | <2     | <3     | <3     | 164   | 1.06 | .068 | 10     | 25     | 1.68 | 329    | .19  | <3    | 2.02 | .02  | .40  | <2    | 1       |
| D 656            | 1      | 146    | 10     | 83     | <.3    | 36     | 26     | 905    | 5.26  | 34     | <8    | <2     | <2     | 95     | .4     | <3     | <3     | 160   | 1.53 | .176 | 20     | 19     | 1.68 | 273    | .12  | <3    | 2.12 | .01  | .24  | <2    | <1      |
| D 657            | 1      | 87     | 9      | 88     | <.3    | 34     | 32     | 899    | 6.19  | 46     | <8    | <2     | 2      | 77     | <2     | <3     | <3     | 172   | 1.22 | .112 | 20     | 16     | 1.82 | 363    | .16  | <3    | 2.30 | .01  | .44  | <2    | <1      |
| D 658            | 1      | 55     | 5      | 50     | <.3    | 7      | 15     | 449    | 2.95  | <2     | <8    | <2     | 2      | 66     | <2     | <3     | <3     | 96    | 1.05 | .071 | 11     | 2      | .96  | 181    | .10  | <3    | 1.64 | .03  | .19  | <2    | 1       |
| D 659            | 1      | 83     | 22     | 125    | <.3    | 64     | 24     | 572    | 5.60  | 60     | <8    | <2     | 8      | 25     | <2     | <3     | 4      | 91    | .56  | .079 | 32     | 46     | 2.06 | 244    | .11  | <3    | 2.48 | .01  | .13  | <2    | 1       |
| D 660            | <1     | 36     | 14     | 91     | <.3    | 40     | 15     | 314    | 3.98  | 32     | <8    | <2     | 7      | 24     | <2     | <3     | 4      | 37    | .59  | .024 | 30     | 27     | 1.95 | 233    | .15  | <3    | 2.07 | .01  | .17  | 2     | 1       |
| D 661            | 1      | 23     | 21     | 55     | <.3    | 19     | 13     | 297    | 4.07  | 28     | <8    | <2     | 2      | 8      | <2     | <3     | 9      | 129   | .11  | .023 | 11     | 23     | 1.23 | 125    | .18  | <3    | 1.82 | .02  | .05  | <2    | <1      |
| D 662            | <1     | 22     | 8      | 113    | <.3    | 35     | 16     | 535    | 4.35  | 19     | <8    | <2     | 5      | 40     | <2     | <3     | <3     | 51    | .62  | .043 | 18     | 43     | 3.53 | 201    | .20  | <3    | 2.94 | .01  | .93  | <2    | <1      |
| D 663            | 1      | 88     | 7      | 85     | <.3    | 41     | 28     | 544    | 8.75  | <2     | <8    | <2     | 2      | 12     | <2     | <3     | <3     | 312   | .09  | .042 | 17     | 34     | 2.70 | 250    | .34  | <3    | 3.23 | .01  | .41  | <2    | <1      |
| D 664            | 2      | 26     | 22     | 64     | <.3    | 38     | 12     | 222    | 4.65  | 93     | <8    | <2     | 5      | 8      | <2     | 3      | <3     | 62    | .08  | .029 | 17     | 40     | .53  | 195    | .02  | <3    | 1.82 | <.01 | .04  | <2    | 1       |
| D 665            | 1      | 21     | <3     | 73     | <.3    | 4      | 29     | 442    | 10.03 | <2     | <8    | <2     | 3      | 64     | .3     | <3     | <3     | 94    | 1.18 | .382 | 68     | 2      | 2.30 | 274    | .27  | <3    | 4.11 | .01  | 1.65 | <2    | <1      |
| D 666            | 2      | 100    | 6      | 59     | <.3    | 34     | 20     | 377    | 6.14  | <2     | <8    | <2     | 7      | 15     | <2     | <3     | <3     | 98    | .15  | .021 | 22     | 21     | 2.55 | 113    | .17  | <3    | 3.03 | .01  | .48  | <2    | <1      |
| D 667            | 2      | 31     | 12     | 56     | <.3    | 35     | 17     | 466    | 3.80  | 37     | <8    | <2     | 2      | 19     | <2     | 3      | <3     | 110   | .26  | .031 | 13     | 76     | .93  | 351    | .15  | <3    | 1.84 | .01  | .06  | <2    | <1      |
| D 668            | 3      | 19     | 10     | 60     | <.3    | 24     | 8      | 117    | 3.34  | 39     | <8    | <2     | 3      | 7      | .2     | <3     | <3     | 58    | .05  | .026 | 18     | 27     | .51  | 120    | .02  | <3    | 1.10 | .01  | .05  | <2    | <1      |
| D 669            | <1     | 94     | 9      | 61     | <.3    | 137    | 34     | 572    | 5.35  | 34     | <8    | <2     | <2     | 68     | .5     | <3     | <3     | 162   | .87  | .128 | 9      | 315    | 4.49 | 462    | .17  | <3    | 3.17 | .01  | .53  | <2    | 1       |
| D 670            | 1      | 33     | 4      | 58     | <.3    | 34     | 20     | 439    | 5.20  | 5      | <8    | <2     | <2     | 47     | <2     | <3     | <3     | 178   | .68  | .116 | 14     | 55     | 3.63 | 198    | .21  | <3    | 3.08 | .01  | .03  | <2    | <1      |
| STANDARD C3/AU-S | 26     | 64     | 41     | 169    | 5.7    | 36     | 12     | 760    | 3.49  | 55     | 20    | 3      | 18     | 29     | 24.4   | 17     | 25     | 83    | .59  | .087 | 17     | 167    | .66  | 152    | .10  | 19    | 1.92 | .04  | .16  | 24    | 46      |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



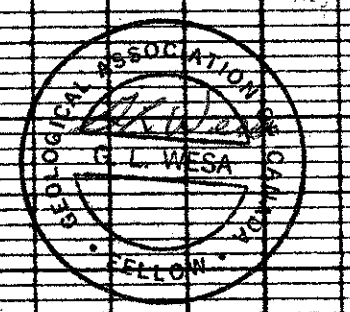
| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| D 671            | <1        | 63        | 4         | 31        | <.3       | 75        | 20        | 292       | 2.95    | 13        | <8       | <2        | <2        | 41        | <.2       | <3        | <3        | 92       | .67     | .063   | 6         | 251       | 2.85    | 97        | .08     | <3       | 2.13    | .02     | .13    | <2       | <1         |
| D 672            | <1        | 1         | <3        | 2         | <.3       | 1         | <1        | 11        | .22     | <2        | <8       | <2        | <2        | 8         | <.2       | <3        | <3        | 7        | .03     | .012   | 1         | 2         | .03     | 21        | .01     | <3       | .18     | .02     | .02    | <2       | <1         |
| D 673            | 2         | 34        | 9         | 65        | <.3       | 21        | 19        | 510       | 6.46    | 24        | <8       | <2        | 5         | 47        | <.2       | <3        | <3        | 80       | .69     | .170   | 28        | 20        | 1.98    | 320       | .25     | <3       | 2.74    | <.01    | .43    | <2       | 2          |
| D 674            | 1         | 45        | 8         | 91        | <.3       | 28        | 17        | 629       | 4.31    | 15        | <8       | <2        | 4         | 60        | .3        | <3        | <3        | 74       | .97     | .117   | 15        | 28        | 2.44    | 395       | .19     | <3       | 2.40    | .01     | .67    | <2       | 1          |
| D 675            | <1        | 19        | <3        | 157       | <.3       | 45        | 18        | 1338      | 3.69    | 8         | <8       | <2        | 11        | 18        | <.2       | <3        | <3        | 26       | .24     | .048   | 43        | 24        | 2.01    | 155       | .14     | <3       | 2.02    | <.01    | .53    | <2       | <1         |
| D 676            | 1         | 63        | 17        | 94        | <.3       | 52        | 25        | 676       | 4.74    | 46        | <8       | <2        | 6         | 30        | <.2       | <3        | <3        | 81       | .62     | .063   | 21        | 41        | 2.07    | 328       | .11     | <3       | 2.23    | .01     | .14    | <2       | 1          |
| D 677            | 1         | 177       | 10        | 119       | <.3       | 46        | 35        | 1105      | 8.06    | 14        | <8       | <2        | 3         | 43        | .3        | <3        | <3        | 271      | .66     | .126   | 22        | 22        | 2.84    | 308       | .32     | <3       | 3.53    | <.01    | .94    | <2       | 1          |
| D 678            | 1         | 16        | 5         | 30        | <.3       | 5         | 12        | 409       | 3.97    | <2        | <8       | <2        | <2        | 32        | <.2       | <3        | <3        | 34       | .58     | .166   | 13        | 3         | .93     | 154       | .09     | <3       | 1.60    | .02     | .21    | <2       | <1         |
| D 679            | 1         | 32        | 4         | 38        | <.3       | 18        | 11        | 175       | 3.31    | 16        | <8       | <2        | 3         | 13        | <.2       | <3        | <3        | 85       | .19     | .054   | 23        | 21        | .82     | 121       | .06     | <3       | 1.34    | <.01    | .11    | <2       | 1          |
| D 680            | 1         | 101       | 20        | 103       | .3        | 62        | 37        | 819       | 6.43    | 103       | <8       | <2        | 5         | 46        | .2        | <3        | <3        | 128      | .76     | .182   | 24        | 32        | 1.92    | 309       | .15     | <3       | 2.27    | .01     | .45    | <2       | 2          |
| D 681            | <1        | 54        | 9         | 69        | <.3       | 18        | 15        | 672       | 3.21    | 14        | <8       | <2        | <2        | 92        | .2        | <3        | <3        | 81       | 1.97    | .124   | 10        | 13        | 1.21    | 243       | .08     | <3       | 1.49    | .01     | .11    | <2       | <1         |
| D 682            | <1        | 25        | 4         | 25        | <.3       | 10        | 7         | 328       | 1.45    | 17        | <8       | <2        | <2        | 77        | <.2       | <3        | 3         | 25       | 1.53    | .074   | 5         | 7         | .43     | 108       | .02     | <3       | .64     | .02     | .03    | <2       | <1         |
| D 683            | 1         | 35        | 7         | 48        | <.3       | 24        | 10        | 308       | 2.66    | 43        | <8       | <2        | <2        | 64        | <.2       | <3        | <3        | 41       | 1.13    | .104   | 11        | 21        | .71     | 105       | .04     | <3       | 1.03    | .02     | .07    | <2       | 2          |
| D 684            | 2         | 103       | 7         | 76        | .3        | 40        | 26        | 628       | 5.04    | 44        | <8       | <2        | 3         | 67        | .3        | <3        | <3        | 147      | 1.01    | .121   | 18        | 27        | 1.80    | 246       | .11     | <3       | 2.15    | .01     | .44    | <2       | 2          |
| D 685            | <1        | 151       | 8         | 119       | <.3       | 67        | 43        | 922       | 7.09    | 32        | <8       | <2        | 7         | 24        | <.2       | <3        | <3        | 229      | .33     | .064   | 35        | 58        | 3.29    | 317       | .23     | <3       | 3.58    | <.01    | .32    | <2       | 1          |
| D 686            | 1         | 53        | 17        | 95        | <.3       | 51        | 21        | 922       | 4.39    | 40        | <8       | <2        | 8         | 41        | .4        | <3        | <3        | .62      | 1.05    | .073   | 24        | 46        | 2.81    | 235       | .14     | <3       | 2.46    | .01     | .58    | <2       | 1          |
| D 687            | <1        | 212       | 4         | 116       | <.3       | 58        | 51        | 1366      | 10.07   | <2        | <8       | <2        | 2         | 45        | .4        | <3        | <3        | 356      | .71     | .152   | 19        | 44        | 4.88    | 660       | .53     | <3       | 5.14    | .01     | 1.16   | <2       | <1         |
| D 688            | 3         | 153       | <3        | 83        | <.3       | 26        | 40        | 919       | 9.76    | 11        | <8       | <2        | 2         | 77        | <.2       | <3        | <3        | 338      | .94     | .167   | 11        | 5         | 3.61    | 857       | .61     | <3       | 4.57    | .01     | 2.64   | <2       | 2          |
| D 689            | <1        | 16        | 6         | 101       | <.3       | 33        | 18        | 553       | 4.94    | 8         | <8       | <2        | 9         | 17        | <.2       | <3        | <3        | 88       | .18     | .028   | 34        | 59        | 4.72    | 131       | .18     | <3       | 3.63    | <.01    | .48    | <2       | <1         |
| D 690            | <1        | 35        | 12        | 64        | <.3       | 38        | 15        | 251       | 3.27    | 15        | <8       | <2        | 13        | 42        | <.2       | <3        | <3        | 14       | 2.20    | .062   | 46        | 19        | .88     | 163       | <.01    | <3       | 1.41    | <.01    | .09    | <2       | 1          |
| RE D 690         | 1         | 37        | 12        | 67        | <.3       | 40        | 15        | 258       | 3.42    | 19        | <8       | <2        | 13        | 44        | <.2       | <3        | 3         | 14       | 2.32    | .065   | 50        | 21        | .91     | 168       | <.01    | <3       | 1.46    | <.01    | .09    | <2       | 1          |
| D 691            | <1        | 50        | 11        | 59        | <.3       | 56        | 28        | 181       | 4.45    | 13        | <8       | <2        | 19        | 49        | <.2       | <3        | <3        | 13       | 4.90    | .080   | 38        | 28        | 1.17    | 161       | <.01    | <3       | 2.01    | <.01    | .04    | <2       | 1          |
| D 692            | 1         | 31        | 9         | 50        | <.3       | 35        | 15        | 171       | 3.36    | 10        | <8       | <2        | 11        | 35        | <.2       | <3        | <3        | 11       | 2.63    | .085   | 51        | 15        | .54     | 116       | <.01    | <3       | 1.03    | <.01    | .05    | <2       | <1         |
| D 693            | <1        | 6         | <3        | 7         | <.3       | 3         | 2         | 83        | .58     | <2        | <8       | <2        | <2        | 21        | <.2       | <3        | <3        | 12       | .66     | .038   | 2         | 3         | .08     | 56        | .02     | <3       | .30     | .04     | .02    | <2       | <1         |
| D 694            | 6         | 147       | 15        | 161       | 1.0       | 129       | 47        | 597       | 8.70    | <2        | <8       | <2        | 6         | 23        | <.2       | 4         | 4         | 32       | .28     | .080   | 56        | 53        | 1.23    | 135       | <.01    | <3       | 1.90    | <.01    | .05    | <2       | 15         |
| D 695            | 1         | 28        | 5         | 67        | <.3       | 27        | 13        | 320       | 3.15    | 8         | <8       | <2        | <2        | 30        | <.2       | <3        | <3        | 82       | .76     | .088   | 11        | 56        | 1.09    | 105       | .01     | <3       | 1.56    | .01     | .02    | <2       | 18         |
| D 696            | <1        | 24        | <3        | 9         | .9        | 9         | 3         | 128       | .70     | <2        | <8       | <2        | <2        | 71        | <.2       | <3        | <3        | 8        | 2.17    | .076   | 2         | 4         | .27     | 74        | .01     | 3        | .46     | .03     | .03    | <2       | <1         |
| D 697            | 3         | 62        | 16        | 66        | .5        | 45        | 17        | 437       | 4.09    | 43        | <8       | <2        | 4         | 65        | .8        | <3        | <3        | 12       | 1.05    | .066   | 21        | 13        | .22     | 156       | <.01    | <3       | .65     | <.01    | .07    | <2       | <1         |
| D 698            | 1         | 27        | 11        | 36        | <.3       | 28        | 14        | 389       | 3.72    | 21        | <8       | <2        | 5         | 23        | <.2       | <3        | <3        | 19       | .52     | .053   | 22        | 15        | .25     | 178       | <.01    | <3       | .76     | <.01    | .05    | <2       | <1         |
| D 699            | 2         | 127       | 7         | 50        | .5        | 54        | 24        | 503       | 4.70    | 39        | <8       | <2        | 2         | 34        | <.2       | <3        | <3        | 48       | 1.01    | .069   | 14        | 26        | .52     | 272       | <.01    | <3       | 1.36    | .01     | .06    | <2       | 2          |
| D 700            | 1         | 33        | 6         | 47        | .5        | 24        | 7         | 122       | 2.51    | 7         | <8       | <2        | <2        | 33        | <.2       | <3        | <3        | 49       | .87     | .060   | 11        | 43        | .79     | 173       | .01     | <3       | 1.35    | .01     | .04    | <2       | <1         |
| D 702            | 2         | 38        | 13        | 73        | .4        | 41        | 15        | 446       | 3.52    | 70        | <8       | <2        | 2         | 39        | .3        | <3        | <3        | 39       | .80     | .058   | 15        | 35        | .78     | 251       | .01     | <3       | 1.19    | .01     | .08    | <2       | 1          |
| D 703            | 2         | 43        | 14        | 70        | .4        | 47        | 14        | 344       | 3.47    | 96        | <8       | <2        | 3         | 27        | <.2       | <3        | <3        | 51       | .50     | .042   | 18        | 39        | .68     | 416       | .01     | <3       | 1.66    | .01     | .09    | <2       | 1          |
| D 704            | 1         | 47        | 212       | 189       | .9        | 44        | 18        | 364       | 3.35    | 715       | <8       | <2        | 3         | 46        | .8        | <3        | <3        | 22       | 1.20    | .081   | 20        | 18        | .53     | 123       | <.01    | <3       | .93     | .01     | .06    | <2       | 2          |
| D 705            | 1         | 26        | 12        | 113       | <.3       | 44        | 14        | 214       | 3.65    | 29        | <8       | <2        | 8         | 11        | <.2       | <3        | 3         | 48       | .20     | .033   | 33        | 58        | 1.45    | 196       | .01     | <3       | 1.80    | <.01    | .06    | <2       | 1          |
| STANDARD C3/AU-S | 27        | 67        | 36        | 167       | 5.9       | 38        | 12        | 789       | 3.62    | 56        | 23       | 4         | 20        | 30        | 25.1      | 15        | 24        | 85       | .62     | .090   | 18        | 175       | .68     | 154       | .09     | 21       | 2.01    | .04     | .18    | 21       | 44         |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| D 706            | 3         | 8         | <3        | 55        | <.3       | 2         | 19        | 572       | 8.09    | 10        | <8       | <2        | 4         | 39        | .4        | <3        | <3        | 27       | .69     | .287   | 44        | 1         | 2.36    | 297       | .37     | <3       | 3.58    | .01     | .75    | <2       | <1         |
| D 750            | 1         | 115       | <3        | 25        | <.3       | 53        | 23        | 266       | 5.74    | 28        | <8       | <2        | <2        | 16        | <.2       | <3        | <3        | 39       | .51     | .056   | 20        | 28        | .72     | 223       | <.01    | <3       | 1.76    | .01     | .04    | <2       | <1         |
| D 751            | 2         | 20        | 10        | 53        | <.3       | 29        | 10        | 190       | 3.75    | 28        | <8       | <2        | 4         | 7         | <.2       | <3        | <3        | 64       | .08     | .016   | 21        | 45        | .75     | 152       | .01     | <3       | 1.81    | .01     | .05    | <2       | <1         |
| D 752            | 1         | 22        | 5         | 29        | <.3       | 22        | 13        | 355       | 2.61    | 12        | <8       | <2        | 14        | 50        | <.2       | <3        | <3        | 5        | 5.37    | .068   | 40        | 6         | .21     | 81        | <.01    | <3       | .52     | <.01    | .04    | <2       | <1         |
| D 753            | 1         | 27        | 9         | 36        | <.3       | 32        | 12        | 233       | 3.36    | 27        | <8       | <2        | 8         | 19        | <.2       | <3        | <3        | 14       | .45     | .030   | 39        | 18        | .53     | 130       | <.01    | <3       | 1.16    | .01     | .04    | <2       | <1         |
| D 754            | 1         | 35        | 11        | 43        | <.3       | 40        | 19        | 587       | 3.92    | 55        | <8       | <2        | 8         | 30        | <.2       | <3        | <3        | 13       | 2.03    | .064   | 37        | 14        | .40     | 113       | <.01    | <3       | .68     | <.01    | .04    | <2       | 1          |
| D 755            | 1         | 33        | 6         | 40        | .3        | 48        | 20        | 1336      | 4.76    | 104       | <8       | <2        | 2         | 33        | <.2       | <3        | <3        | 26       | .72     | .055   | 20        | 18        | .46     | 164       | .01     | <3       | .87     | .01     | .03    | <2       | <1         |
| D 756            | 1         | 41        | 13        | 54        | .3        | 38        | 21        | 942       | 3.59    | 63        | <8       | <2        | 3         | 46        | .3        | <3        | <3        | 40       | 1.14    | .079   | 21        | 33        | .54     | 601       | .01     | <3       | 1.94    | .01     | .04    | 3        | 1          |
| D 757            | 1         | 27        | 6         | 30        | <.3       | 23        | 9         | 483       | 2.10    | 24        | <8       | <2        | <2        | 41        | <.2       | <3        | <3        | 16       | 1.34    | .047   | 12        | 16        | .42     | 106       | .01     | <3       | .71     | .02     | .03    | <2       | <1         |
| D 758            | 1         | 40        | 6         | 65        | <.3       | 61        | 25        | 778       | 4.32    | 42        | <8       | <2        | 7         | 29        | <.2       | <3        | <3        | 12       | .91     | .088   | 44        | 19        | .55     | 97        | <.01    | <3       | .99     | .01     | .05    | <2       | 1          |
| D 759            | 1         | 24        | 8         | 51        | <.3       | 36        | 12        | 126       | 3.46    | 30        | <8       | <2        | 9         | 9         | <.2       | <3        | <3        | 42       | .10     | .011   | 40        | 44        | .88     | 227       | .01     | <3       | 2.13    | <.01    | .03    | <2       | 33         |
| D 760            | <1        | 33        | 8         | 45        | <.3       | 33        | 17        | 419       | 2.71    | 38        | <8       | <2        | 15        | 93        | .2        | <3        | <3        | 2        | 6.42    | .110   | 18        | 3         | .60     | 32        | <.01    | <3       | .20     | .01     | .05    | <2       | 1          |
| D 761            | 1         | 80        | 46        | 97        | .7        | 56        | 27        | 224       | 3.89    | 371       | <8       | <2        | 6         | 86        | .8        | <3        | <3        | 4        | 5.39    | .030   | 17        | 4         | .33     | 33        | <.01    | <3       | .38     | <.01    | .03    | <2       | <1         |
| D 762            | 1         | 12        | 41        | 152       | .3        | 21        | 16        | 286       | 3.63    | 100       | <8       | <2        | 8         | 17        | <.2       | <3        | <3        | 35       | .22     | .017   | 28        | 32        | .63     | 220       | <.01    | <3       | 2.13    | .01     | .03    | <2       | <1         |
| D 763            | <1        | 286       | 546       | 234       | 10.8      | 38        | 23        | 602       | 6.00    | 10604     | <8       | <2        | 6         | 59        | 2.2       | 6         | 31        | 10       | .99     | .042   | 11        | 10        | .22     | 104       | <.01    | <3       | .53     | .02     | .04    | <2       | 32         |
| D 764            | <1        | 14        | 8         | 37        | <.3       | 10        | 7         | 211       | .94     | 67        | <8       | <2        | <2        | 24        | <.2       | <3        | <3        | 7        | .79     | .030   | 4         | 2         | .10     | 31        | .01     | <3       | .22     | .04     | .03    | <2       | <1         |
| D 765            | <1        | 55        | 38        | 412       | .3        | 39        | 22        | 494       | 2.69    | 46        | <8       | <2        | 7         | 39        | 1.5       | <3        | <3        | 10       | 1.29    | .042   | 40        | 16        | .78     | 70        | <.01    | <3       | 1.22    | .01     | .04    | <2       | 1          |
| D 766            | 2         | 49        | 20        | 147       | .3        | 48        | 28        | 702       | 3.76    | 50        | <8       | <2        | 9         | 29        | .4        | <3        | <3        | 14       | .86     | .062   | 42        | 21        | 1.05    | 116       | <.01    | <3       | 1.58    | .01     | .04    | <2       | 1          |
| D 767            | 1         | 49        | 24        | 41        | <.3       | 47        | 20        | 322       | 3.17    | 89        | <8       | <2        | 10        | 62        | <.2       | <3        | <3        | 12       | 5.94    | .070   | 20        | 17        | .56     | 41        | <.01    | <3       | .46     | .01     | .04    | <2       | 2          |
| D 768            | <1        | 20        | 8         | 54        | <.3       | 20        | 8         | 186       | 1.65    | 18        | <8       | <2        | <2        | 25        | <.2       | <3        | <3        | 7        | 1.17    | .041   | 7         | 9         | .29     | 49        | <.01    | <3       | .53     | .02     | .02    | <2       | <1         |
| D 769            | <1        | 22        | 4         | 25        | <.3       | 9         | 4         | 295       | .89     | 5         | <8       | <2        | <2        | 53        | .2        | <3        | <3        | 17       | 2.11    | .061   | 4         | 5         | .16     | 48        | .02     | 3        | .38     | .03     | .02    | <2       | 1          |
| D 770            | 1         | 41        | 13        | 70        | <.3       | 32        | 17        | 659       | 3.23    | 30        | <8       | <2        | 4         | 42        | .2        | <3        | <3        | 18       | 1.48    | .049   | 25        | 25        | .98     | 96        | <.01    | <3       | 1.68    | .01     | .03    | <2       | <1         |
| D 771            | 1         | 39        | 13        | 66        | <.3       | 43        | 17        | 262       | 3.67    | 38        | <8       | <2        | 7         | 19        | <.2       | <3        | <3        | 14       | .63     | .033   | 26        | 21        | .73     | 81        | <.01    | <3       | 1.13    | .01     | .03    | <2       | 1          |
| D 772            | <1        | 44        | 17        | 87        | .3        | 45        | 27        | 323       | 3.53    | 42        | <8       | <2        | 11        | 92        | <.2       | <3        | <3        | 11       | 5.38    | .040   | 30        | 28        | 1.42    | 19        | <.01    | <3       | 1.79    | <.01    | .02    | <2       | 1          |
| RE D 772         | <1        | 45        | 12        | 88        | .3        | 44        | 27        | 330       | 3.59    | 44        | <8       | <2        | 11        | 94        | .4        | <3        | <3        | 11       | 5.45    | .040   | 31        | 29        | 1.44    | 20        | <.01    | <3       | 1.84    | <.01    | .02    | <2       | 1          |
| D 773            | <1        | 43        | 65        | 73        | .7        | 52        | 29        | 936       | 4.72    | 57        | <8       | <2        | 13        | 22        | <.2       | <3        | <3        | 13       | .75     | .042   | 55        | 30        | 1.16    | 64        | <.01    | <3       | 1.97    | <.01    | .02    | <2       | 1          |
| D 774            | 1         | 21        | 23        | 86        | <.3       | 36        | 20        | 569       | 4.50    | 99        | <8       | <2        | 9         | 11        | <.2       | <3        | <3        | 42       | .15     | .021   | 30        | 56        | .91     | 224       | <.01    | <3       | 2.11    | <.01    | .04    | <2       | 2          |
| D 775            | 1         | 89        | 23        | 83        | .3        | 66        | 26        | 213       | 4.10    | 41        | <8       | <2        | 14        | 21        | <.2       | <3        | <3        | 25       | .58     | .064   | 56        | 42        | 1.59    | 64        | <.01    | <3       | 2.11    | <.01    | .04    | <2       | 1          |
| D 776            | 1         | 50        | 10        | 101       | <.3       | 32        | 15        | 302       | 2.75    | 31        | <8       | <2        | 3         | 42        | .3        | <3        | <3        | 27       | 1.31    | .055   | 15        | 23        | .77     | 104       | .01     | <3       | 1.21    | .02     | .03    | <2       | 1          |
| D 777            | 1         | 48        | 21        | 166       | .4        | 47        | 19        | 452       | 3.62    | 83        | <8       | <2        | 6         | 49        | .3        | <3        | <3        | 36       | 1.50    | .081   | 25        | 38        | 1.13    | 165       | .02     | <3       | 1.54    | .01     | .10    | <2       | 2          |
| D 778            | 1         | 73        | 20        | 115       | <.3       | 25        | 21        | 644       | 5.91    | 93        | <8       | <2        | 6         | 43        | <.2       | <3        | <3        | 57       | .60     | .082   | 26        | 22        | 1.56    | 255       | .07     | <3       | 1.97    | .01     | .23    | <2       | 2          |
| D 779            | 1         | 31        | 7         | 48        | <.3       | 28        | 14        | 309       | 2.41    | 42        | <8       | <2        | 12        | 87        | <.2       | <3        | <3        | 4        | 7.49    | .060   | 23        | 6         | .35     | 58        | <.01    | <3       | .43     | <.01    | .05    | <2       | 1          |
| D 780            | 1         | 88        | 19        | 376       | <.3       | 45        | 22        | 341       | 4.04    | 56        | <8       | <2        | 8         | 17        | 1.6       | <3        | <3        | 13       | .38     | .028   | 38        | 10        | .32     | 70        | <.01    | <3       | .85     | <.01    | .05    | <2       | 1          |
| STANDARD C3/AU-S | 24        | 60        | 36        | 163       | 5.4       | 34        | 11        | 710       | 3.26    | 54        | 21       | 3         | 18        | 30        | 22.4      | 15        | 21        | 80       | .58     | .083   | 17        | 163       | .60     | 143       | .10     | 19       | 1.85    | .04     | .16    | 21       | 49         |

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



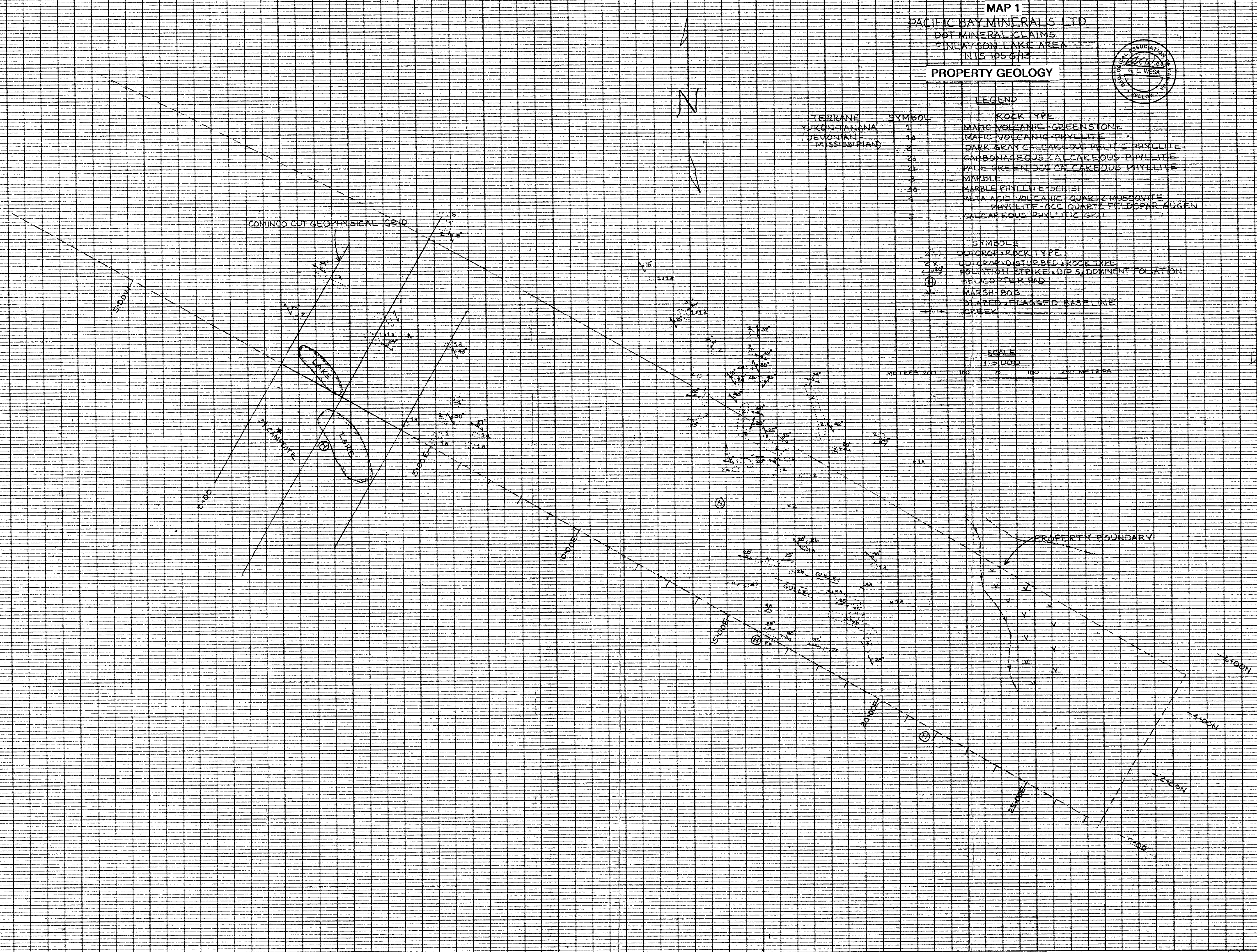
PROPERTY GEOLOGY

| TERRANE                               | SYMBOL | ROCK TYPE  |
|---------------------------------------|--------|--|
| YUKON-TANANA (DEVONIAN MISSISSIPPIAN) | 1      | MAFIC VOLCANIC GREENSTONE  |
|                                       | 1a     | MAFIC VOLCANIC PHYLLITE  |
|                                       | 2      | DARK GRAY CALCAREOUS PELTIC PHYLLITE                                   |
|                                       | 2a     | CARBONACEOUS CALCAREOUS PHYLLITE                                       |
|                                       | 2b     | PALE GREEN/DCG CALCAREOUS PHYLLITE                                     |
|                                       | 3      | MARBLE   |
|                                       | 3a     | MARBLE PHYLLITE (SCHIST)   |
|                                       | 4      | META-ACID VOLCANIC QUARTZ MUSCOVITE PHYLLITE QZS QUARTZ FELDSPAR AUGEN |
|                                       | 5      | CALCAREOUS PHYLLITE GRT  |

| SYMBOL   | DESCRIPTION                                 |
|----------|---|
| (Symbol) | OUTCROP - ROCK TYPE                         |
| (Symbol) | OUTCROP - DISTURBED ROCK TYPE               |
| (Symbol) | FOLIATION STRIKE & DIP / DOMINANT FOLIATION |
| (Symbol) | HELICOPTER PAD                              |
| (Symbol) | MARSH/DOS                                   |
| (Symbol) | BLAZED / FLAGGED BASELINE                   |
| (Symbol) | CREEK                                       |

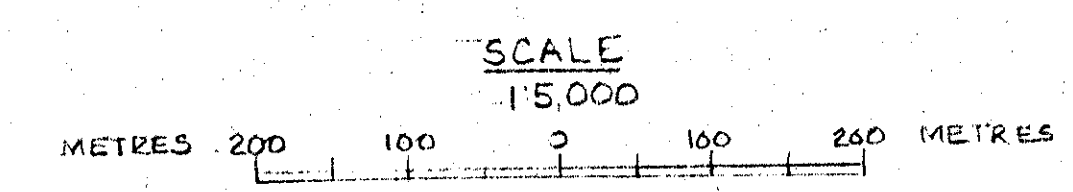
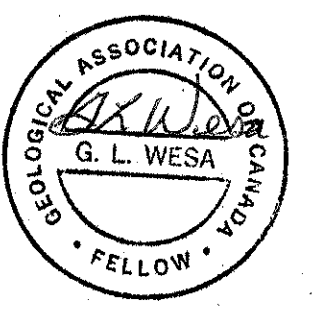
SCALE  
 1:5000  
 METRES 200 100 0 100 200 METRES



DW/D

SOIL GEOCHEMISTRY (COPPER, ZINC AND LEAD IN PPM)

- SYMBOLS**
- 164.8 22 COMINCO 1934 SOIL SAMPLE PPM COPPER LEAD & ZINC
  - 100.5 48 PACIFIC BAY 1937 SOIL SAMPLE PPM COPPER LEAD & ZINC
  - 781 ROCK SAMPLE PPM COPPER LEAD & ZINC
  - ⋈ MARSH-BOG
  - COMINCO CUT GEOPHYSICAL GRID
  - BLAZED & FLAGGED BASELINE
  - CREEK
  - ⊕ HELICOPTER PAD
  - ⊙ OUTCROP META ACID VOLCANICS
  - KILL ZONE

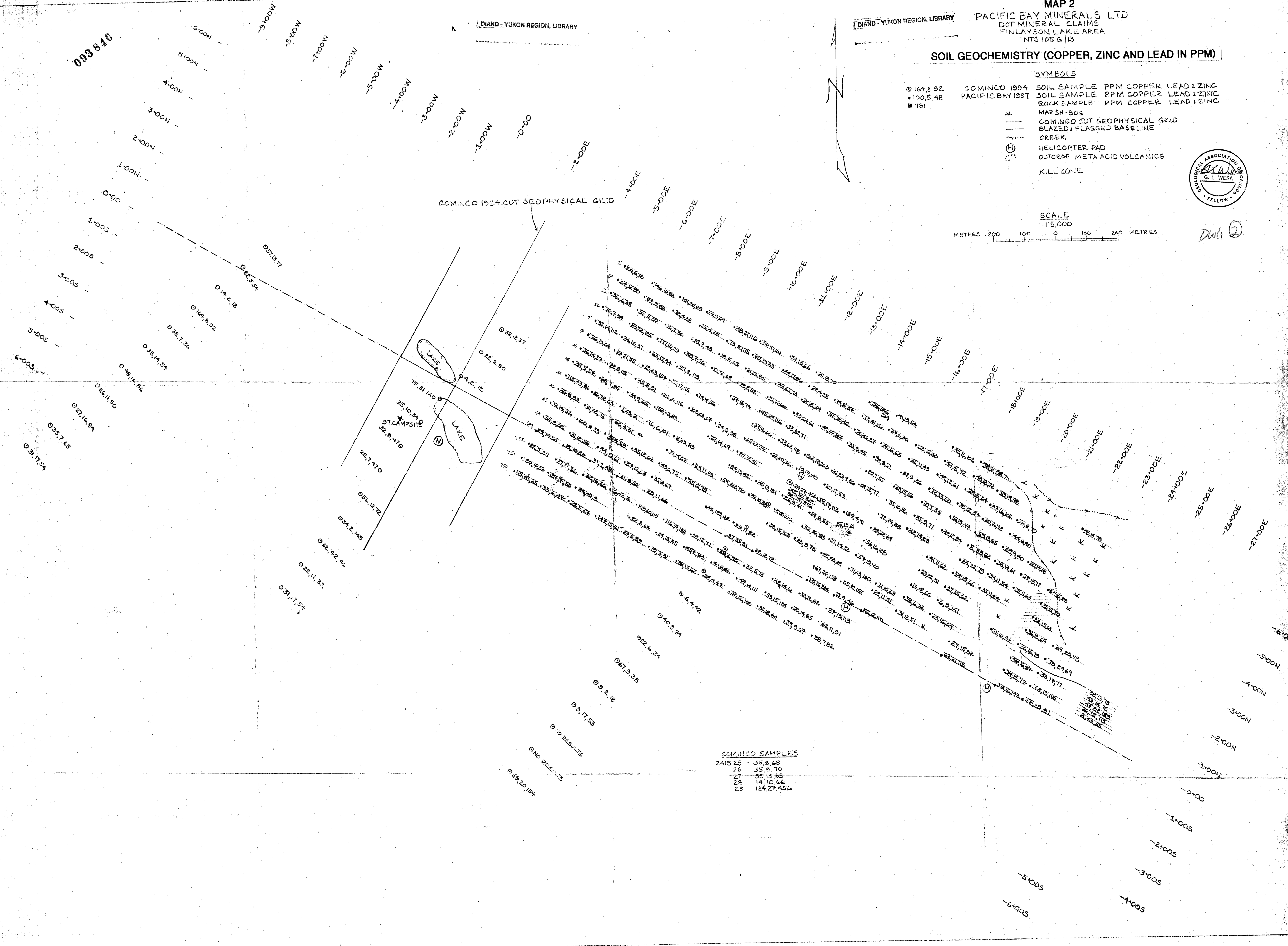


DWH ②

DIAND - YUKON REGION, LIBRARY

DIAND - YUKON REGION, LIBRARY

COMINCO 1934 CUT GEOPHYSICAL GRID



**COMINCO SAMPLES**

|      |        |      |    |
|------|--------|------|----|
| 2415 | 25     | 35.8 | 48 |
| 26   | 35.0   | 70   |    |
| 27   | 55.3   | 80   |    |
| 28   | 14.10  | 66   |    |
| 29   | 124.27 | 456  |    |

NO RESULTS  
 059,20,154