

1993 ASSESSMENT REPORT

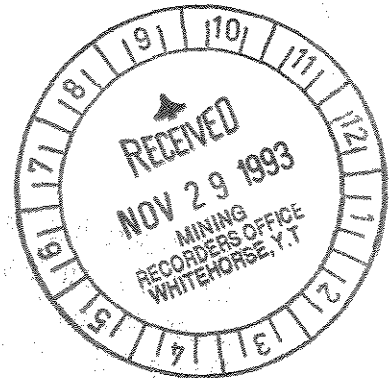


REPORT ON A SOIL GEOCHEM SURVEY  
CARRIED OUT ON THE DISCOVERY CREEK PROPERTY  
ON CLAIMS OF:

WEDGE 5, WEDGE 6, WEDGE 7, WEDGE 10, JBF-1, JBF-7, JBF,6  
JON-WEDGE-3, LCGS-1

CLAIMS SHEET 115I/3, 62° 05'N / 137° 10'W  
June, July, August, and September, 1993

093138



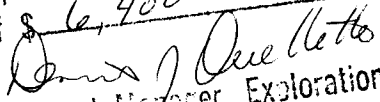
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Mark Langdon,  
Manager - Geological Projects

A handwritten signature in cursive script that reads "Mark Langdon".

November 19, 1993

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 6,400.

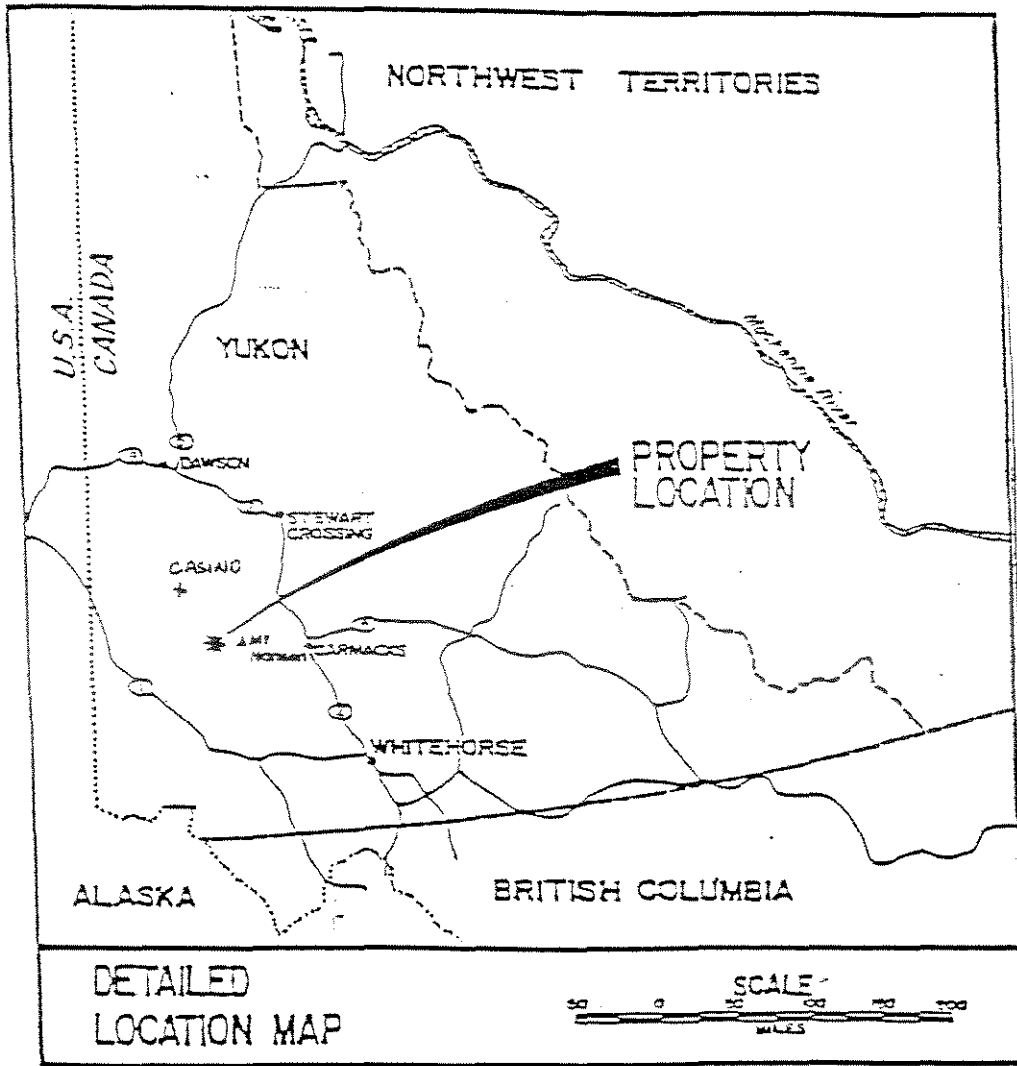
*for*   
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

1993 Assessment Report

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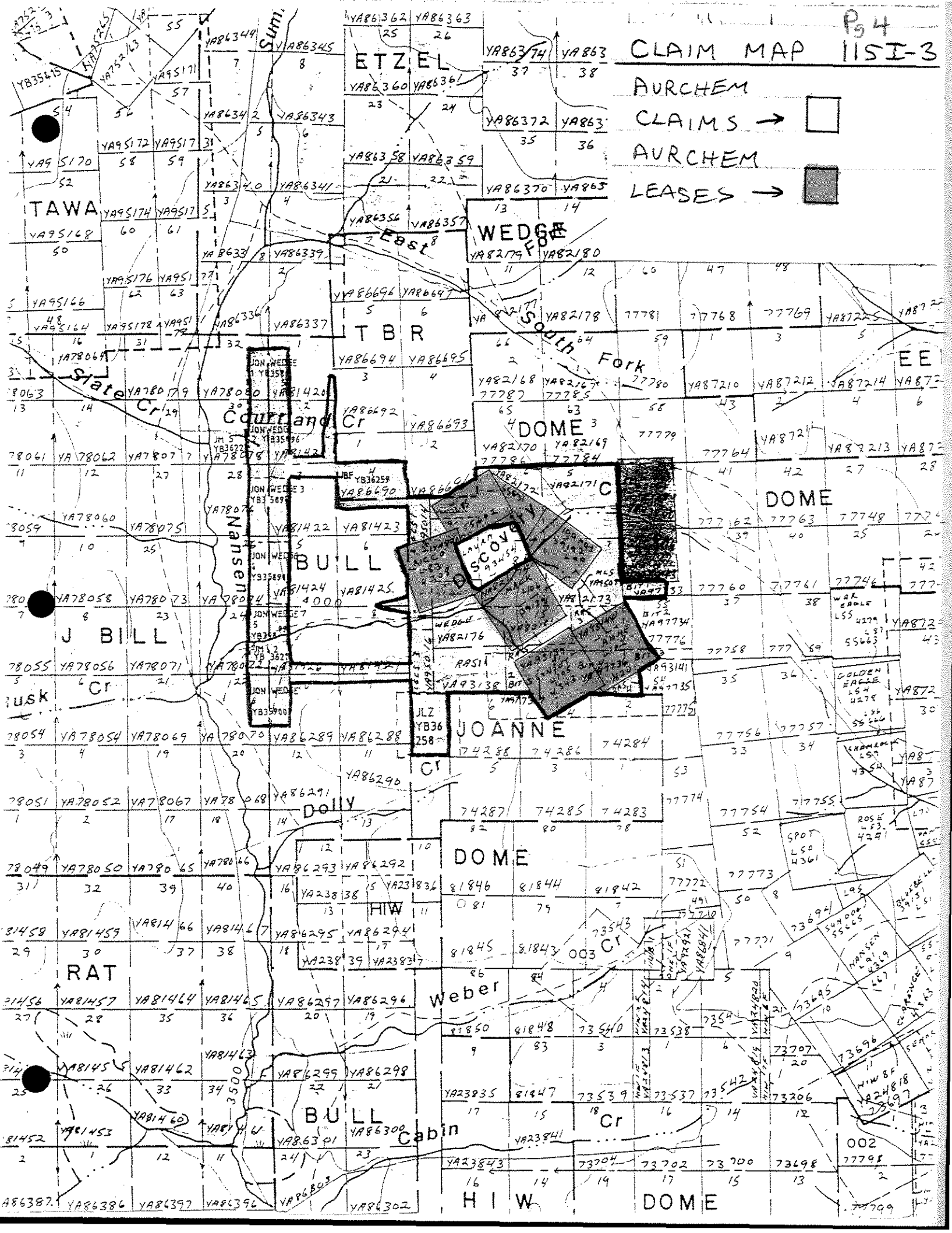
PROPERTY LOCATION MAP



DETAILED  
LOCATION MAP

# CLAIM MAP IISI-3

AURCHEM  
 CLAIMS →   
 AURCHEM  
 LEASES → 



## ETZEL

## TAWA

## WEDGE

## TBR

## DOME

## BULL

## JOANNE

## RAT

## DOME

## BULL

## Cabin

## HIW

## DOME

**D SCOVE**  
 33543  
 33542

Courland Cr

Nansen

Cr

Weber

Cr

Cr

DOME

WARK CREEK

GOLDEN EAGLE

SHAMOCK

ROSE

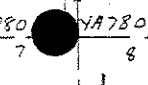
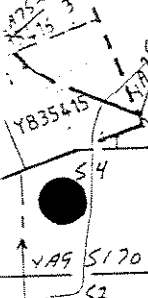
SPOT

SAVADO

NANSEN

HIW 8F

002



LIST OF CLAIMS/LEASES

DISCOVERY CREEK PROJECT  
CLAIMS/LEASE STANDINGS AS OF  
DECEMBER 1, 1993

1. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
RAS 1	YA93138	DEC.1, 2014	AURCHEM EXP. LTD.
RAS 2	YA93139	DEC.1, 2014	"
RAS 3	YA93140	DEC.1, 2014	"
RAS 4	YA93141	DEC.1, 2004	"

2. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
MSL	YA95099	DEC.1, 2014	AURCHEM EXP. LTD.

3. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
LGCS 1	YA95014	DEC.1, 2000	AURCHEM EXP. LTD.
LGCS 3	YA95016	DEC.1, 2006	"

4. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
BIT 1	YA97733	DEC.1, 2009	AURCHEM EXP. LTD.
BIT 2	YA97734	DEC.1, 2009	"
BIT 3	YA97735	DEC.1, 2004	"
BIT 4	YA97736	DEC.1, 2001	"
BIT 5	YA97737	DEC.1, 2009	"

5. Staked by G. Dickson, Sale/Option completed. 100% owned by Aurchem Exploration Ltd. - No Royalties.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
WEDGE 5	YA82171	DEC.1, 2014	AURCHEM EXP. LTD.
WEDGE 6	YA82172	DEC.1, 2014	"
WEDGE 7	YA82173	DEC.1, 2014	"
WEDGE 8	YA82174	DEC.1, 2014	"
WEDGE 9	YA82175	DEC.1, 2014	"
WEDGE 10	YA82176	DEC.1, 2014	"
WEDGE 15	YA82181	DEC.1, 2014	"

6. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
JON-WEDGE 1	YB35895	DEC.1, 1997	AURCHEM EXP. LTD.
JON-WEDGE 2	YB35896	DEC.1, 1997	"
JON-WEDGE 3	YB35897	DEC.1, 1997	"
JON-WEDGE 4	YB35898	DEC.1, 1997	"
JON-WEDGE 5	YB35899	DEC.1, 1997	"
JON-WEDGE 6	YB35900	DEC.1, 1997	"

7. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
JLZ 1	YB36258	DEC.1, 1997	AURCHEM EXP. LTD.

8. Staked and 100% owned by Aurchem Exploration Ltd.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
JBF 1	YB36259	DEC.1, 1997	AURCHEM EXP. LTD.
JBF 2	YB36954	DEC.1, 1997	"
JBF 3	YB36955	DEC.1, 1997	"
JBF 4	YB36956	DEC.1, 1997	"
JBF 5	YB36957	DEC.1, 1997	"
JBF 6	YB36958	DEC.1, 1997	"
JBF 7	YB36959	DEC.1, 1997	"

9. Optioned and sold by F. Goulter to Aurchem Exploration Ltd., which now holds a 100% interest (no Royalties) in the following Mineral Leases. The terms of the Leases are 21 years from the date of November 27, 1977.

CLAIM NAME	CLAIM TAG NUMBER	EXPIRATION DATE	OWNERSHIP/OTHER
RICCO LEASE #545	4209	NOV.27, 1998	AURCHEM EXP. LTD.
HAZEL ANNE LEASE #546	4210	NOV.27, 1998	"
SUNSET LEASE #547	4243	NOV.27, 1998	"
MACK LEASE #548	39134	NOV.27, 1998	"
IDA MAY LEASE #549	39192	NOV.27, 1998	"
MYRTLE LEASE #550	55602	NOV.27, 1998	"
COURTLAND LEASE #551	55836	NOV.27, 1998	"

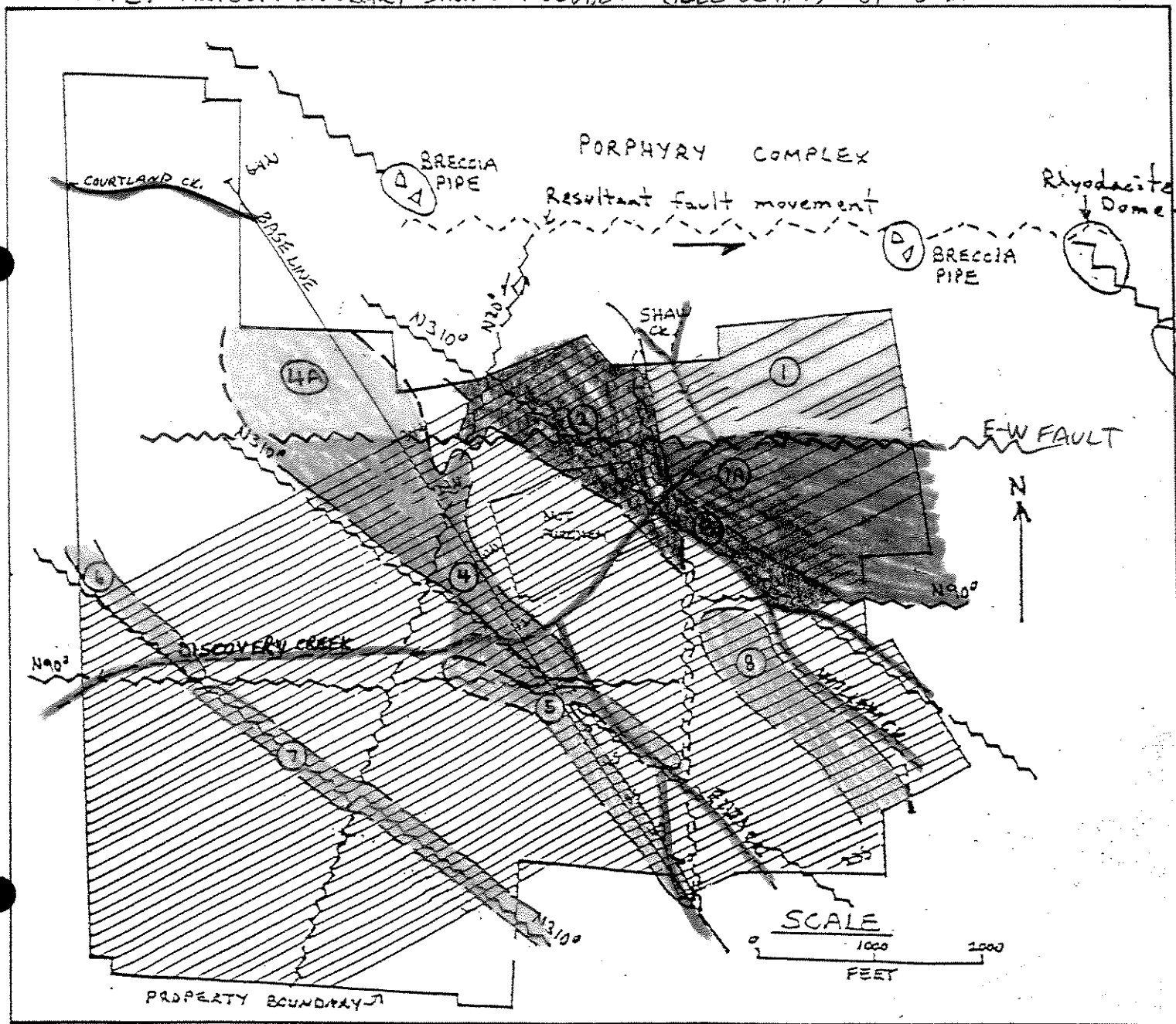
TOTAL: 32 FULL AND FRACTIONAL CLAIMS AND 7 LEASES.

NOTE: At the present time, it appears that the following claims are unlikely to hold any ground and may therefore be of no value; BIT 2, BIT 3, JBF 2, and JBF 3.

GENERAL MINERALIZATION ZONES OF THE DISCOVERY CREEK PROPERTY

- 1. **1A** PORPHYRY ZONE: Porphyry Cu-Mo-Au±Ag
- 2. TRANSITIONAL ZONE NORTH: Epithermal Au-Ag-Pb-Zn-Cu veins/stockwork within an argillic porphyry alteration zone. Possible porphyry at depth. Minor porphyry Cu-Au mineralization.
- 3. TRANSITIONAL ZONE SOUTH: As above, with a lower Pb-Zn component.
- 4. **4A** ELIZA CREEK NORTH ZONE: Epithermal Au-Ag-Pb-Zn-Cu veins/minor stockwork within an argillic porphyry alteration zone. **(EXTENSION ZONE 4A)**
- 5. ELIZA CREEK SOUTH ZONE: Epithermal Au-Ag-Pb-Zn veins as a southern extension of Zone 4. Epithermal mineralization only.
- 6 and 7. DISTAL ZONES: Geophysically/Geochemically displayed as "distal" epithermal veins. Zone 7 may be weak to absent at surface. Zone 6 with a greater porphyry influence may be more similar to Zones 4 and/or 5.
- 8. WILLOW CREEK AREA: Epithermal veins of Au-Ag-Pb-Zn of possibly a higher paleosurface environment, (from post mineral block faulting?). Area displays epithermal veins outside of our main zones.

NOTE: PROPERTY BOUNDARY SHOWN INCLUDES BULL CLAIMS OF J DICKSON.



Exploration on the Discovery Creek PropertyPre-1993 Summary

Previous to 1993, exploration on the Discovery Creek Property could be summarized as follows ;

- (a) picketed grid on 75% of the property
- (b) a magnetics survey covering the grid
- (c) an IP/Resistivity survey covering the grid
- (d) a partial grid soil geochem survey
- (e) followup trenching with mapping and sampling
- (f) property and surrounding area geological mapping
- (g) preliminary reverse circulation drill program

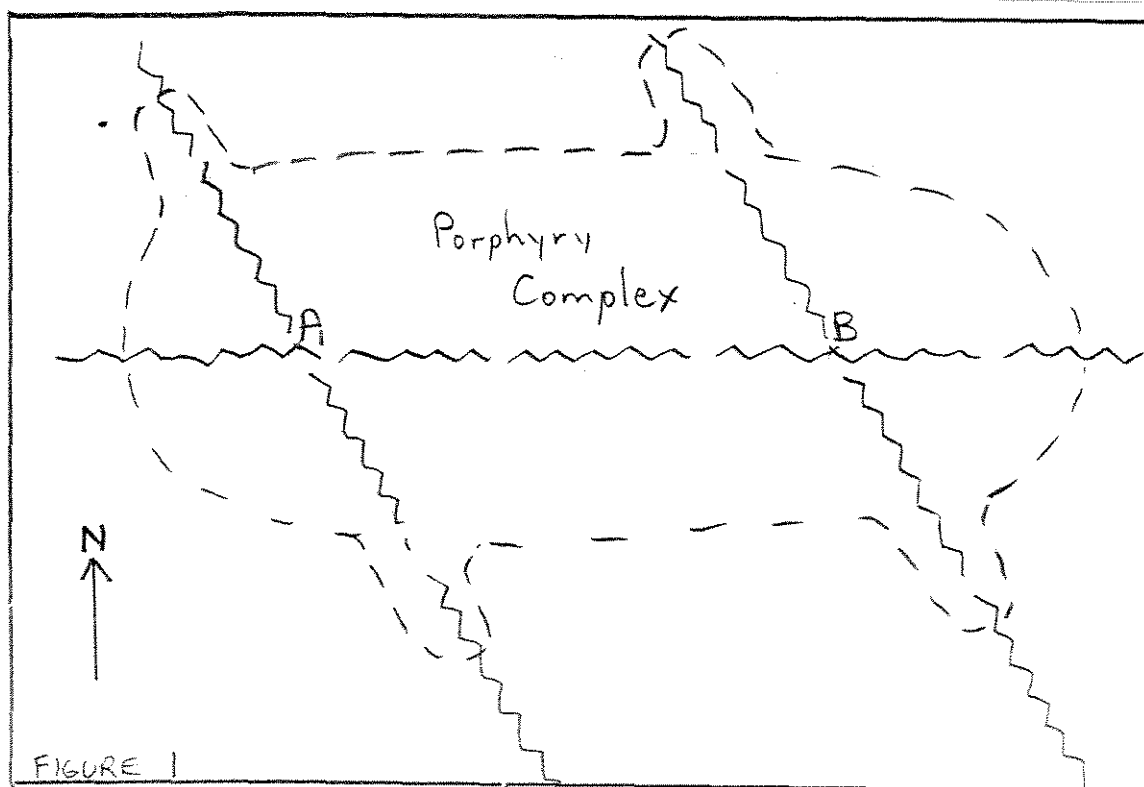
The geological, geophysical and geochemical groundwork displayed a property with large, significant anomalies. The reverse circulation drilling helped to define these targets as to mineral type, style, and economic potential. Drill holes also provided data needed to re-interpret and/or substantiate previous interpretations of the ground surveys.

General Geology and Mineralization

The basic environment of the property is of a Cu-Mo (Au) porphyry complex with an encroaching and overlapping epithermal system. The host rocks for mineralization are as follows :

- (1) Yukon Metamorphic Group, (basement schists and gneisses of sedimentary, volcanic and igneous origin. Palaeozoic and earlier in age)
- (2) Quartz Diorite (Jurassic)
- (3) Casino Granodiorite (Cretaceous)
- (4) Mount Nansen Intermediate Volcanics (late Cretaceous)
- (5) Mount Nansen Suite Porphyries (Palaeocene)
  - (5a) Quartz-Feldspar Porphyry dykes and sills
  - (5b) Quartz-Monzonite Porphyry dykes and sills
  - (5c) Hypabyssal Latite Porphyry dykes and sills  
(also commonly referred to as Rhyodacite Porphyry)

Two parallel northwest striking faults on intersection with a major east-west fault create the structural basis for the porphyry complex. An elliptical shaped porphyry complex with the long axis in the east-west direction resulted, (see figure 1).



Within the complex itself, dykes and sills display a strong northwest strike or trend. At the two fault intersection locations (A and B on Figure 1), hydrothermal silica rich solution centres were created. Large areas of pervasive silicification, quartz flooding, and the creation of quartz-breccia are found. A hydrothermal system of repetitive sealing, pressure build-up and release (hydrofracturing and explosion) and re-sealing occurred. Silica rich breccia is found extensively in the area of the two epicentres with lesser amounts throughout the rest of the complex.

The porphyry complex is centred just north of Aurchem's property boundary, but covers a portion of the claims/leases. The porphyry complex itself is defined as hosting the porphyry intrusions and the potassic/phyllitic altered host rocks. Surrounding this complex are additional alteration halos composed of argillic, strong propylitic and weak propylitic. A very late and possible final stage in the magmatic cycle was the creation of two Quartz-Tourmaline Breccia Pipes approximately centred within the earlier two quartz-rich epicentres.

Porphyry derived mineralization can be grouped into two main types, with the possibility of a third type also existing.

- (1) Within the central zone of the porphyry explored in the early 70's, (not on Aurchem property), a Cu-Mo zone was partially delineated. Generally, sub-economic grades (Cu = .1%, Mo = .01%) were reported with rare short intersections of higher grade material. Supergene oxidation and leaching was extensive but variable with grades increasing two-fold within supergene enrichment zones at depth.
- (2) Not explored in the earlier work (above) was a gold zone located within the outer peripheral edge of the porphyry complex. Northwest striking quartz-pyrite veins and stockwork carrying gold are found.

- (3) Within the above mineralization (2), but not associated, are local pockets of strongly anomalous copper with erratic high grade silver. This may be supergene mineralization more closely related to the central Cu-Mo zone. A copper enrichment in the peripheral quartz-pyrite-gold veins and stringers is also possible as the entire zone shows a weak, but noticeable Cu-Mo anomaly.

As the porphyry complex cooled and contracted, an epithermal system formed and encroached over the porphyry mineralization/alteration halos. The epithermal veins of Au, Ag, Pb, Zn, As, Cu can be found kilometres in distance from the porphyry centre to rare veins within the central porphyry complex. The previous porphyry alteration halos have displayed a profound controlling effect on the later epithermal mineralization.

Within porphyry propylitic alteration, discrete northwest (and minor N20°) structurally controlled epithermal veins are found. When these veins enter the porphyry derived argillic alteration zone, the epithermal mineralization is found as multiple parallel veins with associated wide zones of stockwork. Epithermal style mineralization is reduced generally to minimal amounts as the porphyry complex itself is entered.

There is some suggestion of epithermal mineral suite zoning in relation to the porphyry complex. Mineralization has shown Au, Ag, Pb, Zn, As, Cu veins grade to Au, Zn, Cu to Au, Zn and then to the quartz-pyrite-gold mineralization (previously discussed). The possibility of this quartz-pyrite-gold mineralization being high temperature epithermal, or mesothermal, rather than porphyry derived, is being investigated.

Parallel to the main east-west fault centred within the porphyry complex are a number of similar faults formed by porphyry uplift and collapse. These faults represent vertical movements. In moving across one of these faults, a paleo-elevation change takes place, commonly causing changes in lithology and/or porphyry alteration intensity. As a northwest striking zone of epithermal mineralization crosses one of these east-west faults, paleo-environmental changes can clearly effect the type/style and amount of mineralization deposited.

The boundaries and/or areas of mineral zones within Aurchem's property are, to a large extent, controlled by a combination northwest structural zones and faults in conjunction with east-west faults. These faults divide the property up into blocks that contain certain characteristics of mineralization type, style, and associated porphyry alteration.

#### 1993 Exploration

Previous exploration had formed a strongly based geological model for the property. Based on this model, there existed two areas within the property where we had done very little exploration, but theoretically, were "prime" property areas. Our work had also delineated large broad target zones which required some refining for site specific drilling targets. Therefore, Aurchem's 1993 exploration had two main goals:

- (1) expanding the grid and conducting our exploration methodology to these new areas;

- (2) gathering of greater detailed information across known target zones for better resolution and refinement of specific targets within the zones.

This exploration was basically as preparation for a drill program in 1994.

This Assessment Report, and the expenditures enclosed, are based on the soil geochemical survey aspect of the 1993 exploration. A general review of the total 1993 exploration program is as follows :

1. Greater detailed geological logging (use of a binocularscope) of the 1992 reverse circulation drill holes was done. All holes except those from the Eliza Creek South Zone have been re-logged at this time.
2. A number of check assays (31) were done on reverse circulation drill samples. Base metal check assays (Pb,Zn,As,Cu,Mo) confirmed the original results. Gold and silver check assays returned values of equal or greater strength. Both precious metals separately gave an average check-assay increase in grade (31 samples) of 70.0%. A greater number of check-assays are required to confirm this trend.
3. The picketed grid was expanded on the property to cover two areas, (see map on page 8).
  - (a) In the northeast, a grid covering the mineral zones 1 and 1A was formed.
  - (b) In the northwest, the grid was extended on-strike to cover the Eliza Creek North Extension Zone, (area 4A on map on page 8).
4. Total field magnetic surveys were conducted over both of the new grid areas of No.3 above.
5. Detailed geological mapping over the new grid areas was also completed. Regional geological mapping of the porphyry complex was conducted over certain localities to relate property geology to the porphyry complex and alteration halos.
6. A suite of rock and reverse circulation drill samples are presently being analyzed as polished thin section microscope work. This is to help define/refine our geological mapping with alterations and possibly resolve some mineralogical aspects.
7. Two different types of Induced Potential/Resistivity surveys were completed;
  - (a) The new grid covering area 4A (see page 8) was surveyed using pole-dipole time domain I.P. with an "a" spacing of 100 feet at "n" of 1 to 6. This data and methodology generally correlates with the previous property I.P. surveys.
  - (b) A new type of I.P. survey called "realsection" was also done over selected target zones of areas 1, 1A, 2, 3, 4, and 4A. This I.P. could be best described as a "stacked" gradient array which can penetrate to greater depths while still producing refined and accurate locations of anomalies. The new rather experimental method proved highly successful in refining targets both laterally and to depth. Good drill targets were established.

8. A total of 1,259 additional soil geochem samples were taken. These covered the two new grid areas, plus selected lines within the other known target areas as additional infil. About 800 of these geochems were taken at the same time as the grid/geophysics/geological mapping work. Based on successful results of these combined programs, another 459 geochem samples were then taken as additional infil within target areas.

Copies of the soil geochemical analytical results are shown in Appendix I.

Two contoured maps are also included in this report of Au and Ag soil geochems. These maps present all previous soil geochem results combined with those of 1993.

The following chart defines Aurchem's "anomalous" soil geochem values that are used on the Discovery Creek Property;

ELEMENT	BACKGROUND	WEAKLY ANOMALOUS	ANOMALOUS	MODERATELY ANOMALOUS	STRONGLY ANOMALOUS	VERY STRONGLY ANOMALOUS
Au (ppb)	< 15	15 to 50	50 to 100	100 to 500	500 to 1000	< 1000
Ag (ppm)	< 1.0	1.0 to 2.0	2.0 to 3.0	3.0 to 4.0	4.0 to 5.0	> 5.0
Pb (ppm)	< 25	25 to 50	50 to 100	100 to 200	200 to 400	> 400
Zn (ppm)	< 25	25 to 50	50 to 100	100 to 200	200 to 400	> 400
As (ppm)	< 25	25 to 50	50 to 100	100 to 200	200 to 400	> 400
Cu (ppm)	< 30	30 to 60	60 to 90	90 to 120	120 to 150	> 150
Mo (ppm)	< 3	3 to 6	6 to 12	12 to 25	25 to 50	> 50

#### Discussion of Soil Geochem Results

The following briefly discusses the soil geochem results in relation to the geology, geophysics, etc. This is done on a mineral zone by zone basis as defined on the map of Page 8.

##### (a) Porphyry Zone (1)

Within the porphyry complex, this zone comprises phyllic and potassic altered granodiorite cut by numerous dykes of Quartz Monzonite Porphyry and Hypabyssal Latite Porphyry. The eastern half of this zone within Aurchem's property is dominantly composed of breccia lithologies.

Pervasive silicification within the Porphyry Zone (1) is the general rule. Supergene oxidation/leaching features at surface are very common masking the underlying high sulphide environment. Northwest striking "potassic" altered porphyry dykes displaying strong biotite-quartz-pyrite replacement produce strong linear chargeability anomalies. Weak magnetic highs within a generally low and flat relief magnetic character correlates with the potassic alteration. A very strong "bullseye" chargeability anomaly on one such dyke shows a very strong soil geochem gold anomaly on its flank, (up to 6,667 ppb Au). A copper soil anomaly then flanks this gold anomaly. The gold anomaly represents a prime untested target, lying between a potassic altered porphyry dyke to the west and a large breccia area to the east. It is interpreted as holding an excellent potential for a porphyry gold style mineral deposit.

(b) Porphyry Zone (1A)

Also within the Porphyry Complex, this zone holds some differences from (1) above as;

- the porphyry dykes and sills appear to be exclusively of the hypabyssal latite type; no Quartz Monzonite as in above);
- phyllic alteration again dominates, but it is more of a sericite-clay type than a quartz rich variety seen in Zone (1); quartz breccias are therefore also less common, but not absent;
- Zone (1A) hosts a pervasive quartz-pyrite-gold stockwork and vein mineralization throughout in both the porphyry and granodiorite lithologies. Local broad Cu anomalies containing high silver values also occur; soil geochems display the mineralization with weak to strong anomalies in gold throughout with a northwest trending pattern (see the Au soil geochem map).

(c) Transitional Zone North ((2) on page 8)

This large zone holding a 1000 foot width displays strong northwest striking epithermal vein and stockwork mineralization within a previous porphyry argillic alteration zone. Supergene oxidation of the porphyry derived mineralization is locally very strong to depths greater than 400 feet. Epithermal quartz-sulphide veins and stockwork (Au, Ag, Pb, Zn, As, Cu) is the dominant economic mineralization. Hosted mainly by granodiorite with minor quartz-feldspar porphyry dykes, the area also holds numerous zones of silicification and quartz breccia presumably of a porphyry origin. Nine drill holes all in the western half of this zone were completed in 1992, partially testing four or five parallel veins.

A large number of infill lines of soil geochems taken in 1993 confirm the very strong and broad anomalies of Au, Ag, Pb, Zn, As. Bands of strong anomalies compliment and correlate with the new I.P. anomalies creating many new and untested drill targets.

(d) Transitional Zone South (3)

Mineralization found in drill holes of quartz-pyrite-gold as vein and stockwork is similar to that of (1A), but this area is outside the porphyry complex. Gold soil geochem results confirm with strong anomalies, but silver is also strong conflicting with drill results. A mixture of strongly propylitic to phyllic altered granodiorite (average of argillic) hosts the zone. Strong untested chargeability sulphide targets have been delineated presumably representing targets of a mixture of quartz-pyrite-gold and epithermal style mineralizations.

(e) Eliza Creek North Zone ((4) on page 8 map)

The Eliza Creek North Zone is hosted mainly by quartz-diorite with Mount Nansen Volcanics found in the northern end. The area lies within a major northwest striking fault zone containing strong epithermal mineralization, (Au, Ag, Pb, Zn, As, Cu). It is the on-strike equivalent to the Epithermal veins of the Eliza Creek South Zone, where the veins have now entered the argillic alteration halo of porphyry derivation. This creates (in the North Zone) the addition of wide zones of epithermal stockwork around the veins that was not seen in the Eliza Creek South Zone. Further on-strike to the northwest this vein system enters the Eliza Creek Extension Zone (see (f) below).

An east-west fault separates the Eliza Creek North and South Zones ((4) and (5) on page 8). A strong geophysical target lies just north of the east-west fault. Preliminary drilling on the southern edge of the target displayed a 50.0 foot wide epithermal vein. Another generally untested vein runs parallel, being 200 feet to the west.

The Eliza Creek North Zone has shown to be composed of these two main veins within wider zones of stockwork mineralization. The "stacked" gradient array I.P. method was used in 1993 to cover an 1100 foot long section of this zone. It has shown both veins as continuous for the 1100 feet surveyed and has provided drill targets.

A number of infill lines of soil geochems were undertaken in 1993 within the Eliza Creek North Zone. A general correlation of weak to moderate strength anomalous values of Au, Ag, Pb, Zn, As over the geophysical anomalies is found. Overburden depths of 35 to 100 feet is a factor in the generally weaker and more erratic pattern to the geochems. On the north side of Discovery Creek, 1992 drill attempts encountered large volumes of groundwater, which may greatly inhibit chances of success with a reverse circulation drill in this area.

(f) Eliza Creek Extension Zone (4A)

The epithermal veins of the Eliza Creek North Zone strike northwest into the Eliza Creek Extension Zone. A major east-west fault separates the two zones. Just south of this fault a ridge of outcrop displays a number of northwest striking epithermal veins cutting strongly propylitized Mount Nansen Andesites. These veins display an excellent on-strike correlation to the anomalies within the Extension Zone. The epithermal veins appear to cross the east-west fault and enter the Extension Zone, where both geophysical and geochemical anomalies become much stronger and broader.

There are no outcrops, drillholes or trenches within the Extension Zone so the true nature is largely speculative. Very strong and broad soil geochem anomalies are strongly epithermal in nature, (Au, Ag, Pb, Zn, As, Cu). Overall, the geophysics and other geological data suggest that a paleo-elevation change took place in crossing the east-west fault. The Extension Zone appears to host a horizontal cap (250 feet thick) of Mount Nansen Volcanics overlying a strongly altered lithology, (likely of granodiorite with porphyry, but quartz-diorite is also possible). Epithermal veins cut through the thin andesite cap and blossom into multiple veins with stockwork in the underlying lithology. A strong sulphide component of probable porphyry source is also shown.

The strength of the correlating geophysical/geochemical anomalies and the geological implications makes this a high priority drill target area. A steep topography over part of this zone poses an access problem for drilling. Additional "stacked" gradient array lines are also required to better refine/define the targets for initial drilling.

A few soil geochem samples were taken to the northwest of the main anomalous zone. These samples displayed Au-Zn associated anomalies with a notable absence of Pb, Ag and As. These samples were taken just south of Courtland Creek, where Mount Nansen Volcanics are in contact with the Porphyry Complex. This change in mineral suite character may reflect a temperature-mineral zonation on approach to the porphyry complex (?).

(g) Other Zones

Two zones, the Willow Creek and Eliza Creek South Zones represent epithermal vein target areas away from the main effects of the porphyry complex, (i.e. within the weak propylitic alteration zone of the porphyry). These zones were not explored in 1993. In a general sense, because of the lack of porphyry influence, these target zones are not as promising as the other zones discussed. Deposits are possible, but generally of a smaller tonnage potential. Local "structurally enhanced" areas with favourable host rocks, appear to be the main factors in the formation of pods of mineralization.

Summary and Recommendations

A program of IP/Resistivity, magnetics, geological mapping, grid extension, and soil geochem surveys, was undertaken in the summer of 1993 to delineate and refine targets for a future drill program. Based on a geological model in combination with structurally controlled mineralization conditions, two new areas within the property were also targeted as priority locations.

Results from all surveys were very positive. A large number of strong drill targets were delineated within the six main zones of mineralization. Targets of both epithermal and/or porphyry mineral origin exist.

A program of reverse circulation drilling on targets within all six zones is strongly recommended. This would likely entail about 12,000 feet of drilling allowing four to five holes within each zone. Each of the zones holds a slightly different mineral potential because of complexities of overlapping epithermal/porphyry systems and their effects on each other. I believe that any one of these six zones holds the potential to host a mineable economic deposit. Prioritizing each zone is difficult, as each environment holds individual positive/negative factors. Based strictly on an apparent/interpreted tonnage potential, the zones could be prioritized as follows :

1. Porphyry Zone 1A
2. Porphyry Zone 1
3. Eliza Creek Extension Zone: 4A
4. Transitional Zone North
5. Eliza Creek North Zone
6. Transitional Zone South

General - Expenditures For Assessment Purposes

The attached List of Expenses pertain only to the soil geochemical survey aspect of the 1993 exploration. The list of expenditures is followed by supporting invoices. Following these are the soil geochem analytical results in Appendix 1 and the Contoured Soil Geochem Maps of Gold and Silver. All costs stated are net of the Goods and Services Taxes.

Yours very truly,



Mark S. Langdon,  
Manager-Geological Projects.

## Statement of Qualifications:

I graduated in the Spring of 1979 from the University of Waterloo, with a degree of Honours Science-Earth Science Major. I have worked for various geological private and government employers over the past fifteen years in a wide range of geological environments. Member of PDA and SME.

Mark S. Langdon





(5) C. Fox Geologist  
 Aurum Geological Consultants Inc.,  
 P.O. Box 4367, Whitehorse,  
 Yukon, Y1A 3T5.

Fieldwork: Soil geochem sampling program

Sept.1-4 : 3 days at \$200/day 600.00

TOTAL PERSONNEL EXPENDITURES (A) \$14,310.00

(B) Camp and Rental Costs

(1) 9 man days at \$60/day \$ 540.00  
 (2) truck rental and gas 200.00

TOTAL CAMP AND RENTAL COSTS (B) 740.00

(C) Samples Assay and Related Expenses

(1) Sample shipment cost \$ 252.90  
 (2) Soil sample preparation, reject retention,  
 geochemical analysis for Au,Ag,Pb,Zn,As,Cu,Mo  
 - Rossbacher Laboratory Ltd.  
 2225 Springer Avenue,  
 Burnaby, B.C., V5B 3N1. 5,589.00  
 - 486 Samples

(3) Soil Sample bags:  
 - 1000 x .20 200.00  
 - 500 x .20 100.00

Soil Sample preparation and analysis for  
 Au,Ag,Pb,Zn,Cu,Mo,As:  
 Northern Analytical Laboratories Ltd.  
 105 Copper Road, Whitehorse, Yukon,  
 Y1A 2Z7 - 773 samples 12,174.75

TOTAL ASSAY EXPENDITURES (C) \$18,316.75

SUMMARY OF EXPENDITURES

(A)	Personnel Expenditures	\$ 14,310.00
(B)	Camp and Rental Costs	740.00
(C)	Assay Costs	18,316.65
GRAND TOTAL OF ALL COSTS		<u>\$ 33,366.65</u>

*Mark Langdon*  
 \_\_\_\_\_  
 Mark Langdon,  
 Manager - Geological Projects,  
 Aurchem Exploration Ltd.



**AURUM GEOLOGICAL CONSULTANTS INC.**

604-675 West Hastings Street, Vancouver, B.C., Canada V6B 1N2

Tel: (604) 683-9656 Fax: (604) 683-7825

**INVOICE**

No. 93031  
July 15, 1993  
GST REG # R100341692

In Account With: **AURCHEM**  
21 - 266 Rutherford Road South  
Brampton, Ontario  
L5W 3X3

Attention: Mr. Mark Langdon  
Manager - Geological Projects

Re: Soil sampler Eliza Creek Project, Yukon (July 1-15th, 1993)

To:

Professional services

Arden Bashforth (Soil Sampler - June 22-30th/93)  
15 days @ \$180/day \$2,700.00

Subtotal \$2,700.00

GST (7% of \$2,700.00) \$189.00

**TOTAL INVOICE** \$2,889.00

*Mark Langdon*  
6540



# AURUM GEOLOGICAL CONSULTANTS INC.

604-675 West Hastings Street, Vancouver, B.C., Canada V6B 1N2

Tel: (604) 683-9656 Fax: (604) 683-7625

## INVOICE

No. 93026  
June 30, 1993  
GST REG # R100341692

In Account With: **AURCHEM**  
21 - 266 Rutherford Road South  
Brampton, Ontario  
L6W 3X3

Attention: Mr. Mark Langdon  
Manager - Geological Projects

Re: Soil sampler Eliza Creek Project, Yukon (June 22-30th, 1993)

To:

Professional services

Arden Bashforth (Soil Sampler - June 22-30th/93) 9 days @ \$180/day	\$1620.00
<b>Subtotal</b>	<b>\$1,620.00</b>
GST (7% of \$1,620.00)	\$113.40
<b>TOTAL INVOICE</b>	<b><u>\$1,733.40</u></b>

*Mark Langdon*

6540

THIS IS A PROFESSIONAL SERVICE — ACCOUNTS DUE WHEN RENDERED  
2% per month will be charged after 30 days.

\*\*\*\*END\*\*\*\*



**AURUM GEOLOGICAL CONSULTANTS INC.**

**INVOICE**

No. 93046  
September 7, 1993  
GST REG # R100341692

In Account With: **AURCHEM**  
16 - 266 Rutherford Road South  
Brampton, Ontario  
L6W 3X3

Attention: Mr. Mark Langdon  
Manager - Geological Projects

Re: Soil sampling Discovery Creek Project, Yukon (Sept 1-4th, 1993)

To:

Professional Services

R. Allan Doherty (Sept 1-4th/93)  
3 days @ \$350/day

\$1,050.00

J. vanRanden (Sept 1-4th/93)  
3 days @ \$280/day

\$840.00

C. Fox (Sept 1-4th/93)  
3 days @ \$200/day

\$600.00

654  
\$240

Camp & Rental

Camp Costs 9 man days @ \$60/day  
Truck rental and Gas

\$540.00

\$200.00

650  
\$740.00

Expenses

Sample shipment (71497009124/135)

\$252.90

6509  
\$252.90

Subtotal

\$3,482.90

GST (7% of \$3,482.90)

\$243.80

**TOTAL INVOICE**

**\$3,726.70**

*Mark Langdon*

6540 - \$2490.00

6501 - \$ 740.00

6509 - 252.90

412-675 West Hastings Street  
Vancouver, British Columbia  
Canada V6B 1N2  
Tel: (604) 683-9656  
Fax: (604) 683-7625

P.O. Box 4367  
Whitehorse, Yukon  
Canada Y1A 3T5  
Tel: (403) 667-4168  
Fax: (604) 668-2021

# ROSSBACHER LABORATORY LTD.

2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON

Invoice: 40231  
Certificate: 93173  
Date Entered: 93-09-22

## INVOICE

Quantity	Description	Unit Price	Sub Total	Total
486	Soil Preparation	1.00	486.00	
486	Soil reject retention	0.50	243.00	
486	Geochemical analysis for 6 elements	4.50	2187.00	
486	Geochemical analysis for Au	5.50	2673.00	
			-----	\$ 5589.00

*For Approval*

✓

✓

*6505  
m. pydon*

Discount @ 10% 558.90  
G.S.T. (#R104631668) @ 7% 352.11  
-----

**GRAND TOTAL \$ 5382.21**

TERMS - NET 14 DAYS



23-JUL-93 date

Invoice for Analytical Services

Aurchem Exploration  
 16 - 266 Rutherford Rd. South  
 Brampton, Ontario  
 L6W 3X3

WC#27504

Supplies

Soil bags 1000 x \$0.20 = \$200.00

-----  
 Subtotal = \$200.00

GST @ 7% (#R 121295662) = \$ 14.00

Total due on receipt of invoice = \$214.00

2% interest charge on accounts over 30 days

*On ledger  
 6505*

TO	SALES	NOTED	FWD TO	FILE
	J.C.S.			
	K.A.H.			
	J.F.M.			
REC'D JUL 20 1993				
	A.C.S.			
	M.S.L.			
	J.G.L.			

*For Approval*



Invoice for Analytical Services

JUL-93date

WO#13975

Minem Exploration  
- 266 Rutherford Rd. South  
Hampton, Ontario  
W 3X3

Oil Sample Prep.  $773 \times \$1.50 = \$ 1159.50$   
Qu + 8  $773 \times \$16.00 = \$ 12368.00$

---

Subtotal \$ 13527.50  
Minus 10% Discount (\$ 1352.75)  
Discounted Subtotal \$ 12174.75  
GST @ 7% (#R 121285662) \$ 852.24  
Total due on receipt of invoice \$ 13026.99

Interest charge on accounts over 30 days

*Mark Langdon*  
6505



APPENDIX 1

1993 SOIL SAMPLE ANALYTICAL RESULTS

N = +  
S = -  
E = - 3

AUG - 3 1993

20 Jul-93 date

Assay Certificate

Page 1

Aurchem Exploration

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WO 13975

COLUMNS

3

7

4

1

8

2

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L400N 2250E	93	1.0	32	31	82	4	86
L400N 2300E	567	0.5	91	43	132	9	212
L400N 2350E	123	1.7	94	71	145	5	289
L400N 2400E	31	0.9	21	31	69	2	78
L400N 2450E	22	1.7	19	8	39	1	23
L400N 2500E	27	0.5	33	23	87	3	109
L400N 2550E	33	0.2	24	25	102	3	87
L400N 2600E	33	0.6	29	40	100	3	99
L400N 2650E	19	0.7	19	23	81	2	45
L400N 2700E	<5	0.1	6	3	43	1	<10
L400N 2750E	14	1.1	19	30	79	3	31
L400N 2800E	17	0.9	25	47	106	5	122
L400N 2850E	33	1.5	30	45	115	2	20
L400N 2900E	9	0.5	19	33	99	1	34
L400N 2950E	32	0.2	12	19	77	1	21
L400N 3000E	12	0.4	20	17	69	7	130
L400N 3050E	14	0.3	17	33	98	1	59
L400N 3100E	16	0.3	17	34	86	1	35
L400N 3150E	15	0.4	50	44	111	3	85
L400N 3200E	81	0.7	17	43	100	1	27
L400N 3250E	28	0.7	47	38	91	1	54
L400N 3300E	24	0.4	34	57	122	1	86
L400N 3350E	33	0.4	19	46	91	1	55
L400N 3400E	59	0.7	35	50	129	1	96
L400N 3450E	23	0.7	26	41	94	1	61
L400N 3550E	18	0.8	13	35	76	<1	54
L400N 3600E	44	0.8	34	46	112	1	116
L400N 3650E	11	0.5	29	39	102	1	100
L400N 3700E	14	0.5	22	23	69	1	52
L400N 3750E	23	0.6	25	36	93	1	46
L400N 3800E	42	0.4	23	37	90	1	80
L800N 3200E	32	0.6	39	52	120	1	61
L800N 3250E	18	0.9	38	45	121	2	99
L800N 3300E	31	0.6	24	47	97	2	103
L800N 3350E	54	0.4	38	60	117	2	94
L800N 3400E	32	0.4	21	49	92	2	82
L800N 3450E	42	0.3	14	33	67	1	42
L800N 3550E	49	0.9	21	30	107	3	47
L800N 3600E	48	0.4	24	39	91	2	70
L800N 3650E	10	0.6	41	43	144	3	62
L800N 3700E	42	0.4	36	58	156	1	118
L800N 3750E	44	0.5	28	47	120	1	88

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Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L800N 3800E	51	0.3	25	51	106	1	94
L800N 3850E	25	0.8	25	55	101	1	99
L800N 3900E	58	0.6	25	63	104	1	95
L800N 3950E	51	0.7	62	75	238	2	45
L800N 4000E	23	0.6	147	45	152	3	114
L1200N 150W	27	1.2	105	60	223	2	200
L1200N 200W	15	0.4	22	35	91	1	33
L1200N 250W	37	0.3	18	22	68	1	21
L1200N 300W	9	0.7	38	40	123	3	232
L1200N 350W	7	0.2	12	17	54	1	25
L1200N 400W	8	0.4	10	23	93	1	81
L1200N 0	130	0.4	25	37	64	1	19
L1200N 50E	18	0.5	24	46	96	1	63
L1200N 100E	13	0.5	28	52	93	1	82
L1200N 150E	12	0.5	36	33	99	1	48
L1200N 200E	9	0.3	42	19	59	1	17
L1400N 50W	29	1.0	25	43	83	1	<10
L1400N 100W	51	1.6	49	61	119	2	52
L1400N 150W	32	0.9	43	95	131	2	107
L1400N 200W	23	0.9	39	156	169	1	71
L1400N 250W	198	0.5	23	108	152	1	43
L1400N 300W	52	<0.1	30	56	131	2	90
L1400N 350W	129	0.5	27	64	133	1	60
L1400N 400W	118	<0.1	16	42	113	1	37
L1400N 450W	342	0.1	23	46	132	2	56
L1400N 0	58	0.6	52	43	79	2	21
L1400N 50E	144	<0.1	23	12	44	1	12
L1400N 100E	619	0.4	19	31	92	2	13
L1400N 150E	61	0.8	46	53	125	1	19
L1400N 200E	26	0.4	24	28	67	1	15
L1400N 250E	22	1.1	25	9	35	2	24
L1400N 300E	33	2.2	42	31	87	1	28
L1600N 2400E	11	<0.1	17	21	56	1	23
L1600N 2450E	16	<0.1	28	41	82	1	49
L1600N 2500E	23	<0.1	30	39	97	1	47
L1600N 2550E	61	<0.1	36	48	118	1	75
L1600N 2600E	29	<0.1	26	43	104	1	51
L1600N 2650E	23	<0.1	23	21	55	1	27
L1600N 2700E	16	0.4	12	22	78	1	34
L1600N 2800E	46	2.6	32	28	148	4	122
L1600N 2850E	29	0.6	16	26	85	2	51
L1600N 3300E	9	0.2	9	3	29	2	<10

Certified by

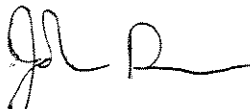



Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L1600N 3350E	<5	0.2	28	9	27	3	11
L1600N 3400E	<5	<0.1	8	3	23	1	<10
L1600N 3450E	12	0.8	66	14	35	4	12
L1600N 3500E	24	1.5	57	20	35	5	16
L1600N 3550E	11	0.1	19	5	32	4	10
L1600N 3600E	39	<0.1	37	16	28	7	<10
L1600N 3650E	>6667	2.0	48	40	30	5	13
L1600N 3700E	32	0.4	42	11	50	5	11
L1600N 3750E	11	1.0	139	10	40	5	16
L1600N 3800E	<5	0.3	170	14	45	5	10
L1600N 3850E	19	0.3	122	10	38	4	<10
L1600N 3900E	10	0.1	60	9	34	1	<10
L1600N 3950E	20	0.6	19	13	45	3	<10
L1600N 4000E	6	1.0	51	20	33	3	11
L1700N 50W	42	0.9	9	217	207	1	101
L1700N 100W	163	0.3	24	62	134	2	71
L1700N 150W	20	0.5	28	50	170	2	75
L1700N 200W	30	0.5	30	97	214	3	116
L1700N 250W	59	0.1	36	76	199	2	90
L1700N 300W	103	1.0	32	90	170	2	97
L1700N 350W	27	3.4	37	693	530	2	732
L1700N 400W	57	1.1	37	153	191	2	205
L1700N 450W	37	1.3	12	104	150	1	105
L1700N 500W	10	1.2	24	147	278	1	186
L1700N BL	15	0.2	15	91	128	1	54
L1700N 50E	12	<0.1	17	34	77	1	21
L1700N 100E	92	0.4	18	40	98	1	21
L1700N 150E	74	<0.1	12	30	64	1	17
L1700N 200E	150	<0.1	11	27	64	1	11
L1700N 3250E	<5	4.8	17	5	20	1	<10
L1700N 3300E	8	0.1	19	5	29	2	18
L1700N 3350E	9	0.2	42	8	32	3	<10
L1700N 3400E	7	0.1	58	8	29	3	<10
L1700N 3450E	20	0.2	33	7	31	3	<10
L1700N 3500E	242	0.4	35	11	36	3	<10
L1700N 75W	39	0.7	61	50	150	2	122
L1700N 110W	27	0.4	29	41	132	1	54
L1700N 120W	204	0.1	34	43	128	1	60
L1700N 130W	29	0.1	26	39	116	3	36
L1700N 140W	61	0.3	47	54	185	3	77
L1700N 165W	209	0.5	58	60	278	4	108
L1700N 175W	275	0.5	56	64	249	4	113

Certified by




Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L1700N 190W	40	0.3	32	45	137	3	67
L1800N 50W	37	0.8	15	192	352	3	124
L1800N 100W	25	0.6	11	123	157	3	58
L1800N 150W	16	0.3	11	70	176	3	31
L1800N 200W	66	0.9	39	131	393	4	126
L1800N 250W	300	0.1	28	51	151	4	190
L1800N 300W	46	0.5	27	99	252	3	277
L1800N 350W	49	1.6	15	122	139	3	161
L1800N 400W	48	1.8	36	240	423	3	352
L1800N 450W	249	0.5	27	274	375	2	305
L1800N 500W	55	0.9	23	246	329	1	361
L1800N 050E	14	<0.1	15	50	135	1	30
L1800N 100E	5	<0.1	11	17	81	1	59
L1800N 150E	13	0.2	19	21	76	1	27
L1800N 200E	12	0.2	15	34	80	1	37
L1800N BL	36	0.6	31	109	110	1	45
L1800N 3050E	11	0.4	35	14	46	3	<10
L1800N 3100E	11	0.1	38	14	36	3	<10
L1800N 3150E	7	0.1	37	5	17	3	<10
L1800N 3200E	163	0.3	22	12	38	3	<10
L1800N 3250E	<5	0.1	76	18	45	15	<10
L1800N 3300E	31	0.2	81	20	42	19	20
L1800N 3350E	8	0.1	36	13	33	3	<10
L1800N 3400E	8	0.6	55	10	27	8	<10
L1800N 3450E	7	0.1	47	7	38	3	<10
L1800N 3500E	5	0.4	61	14	47	3	<10
L1800N 3550E	5	<0.1	47	10	48	3	<10
L1800N 3600E	183	<0.1	47	7	42	2	<10
L1800N 3650E	1534	<0.1	54	10	41	3	<10
L1800N 3700E	541	<0.1	96	12	33	4	<10
L1800N 3750E	988	0.2	54	11	33	5	10
L1800N 3800E	355	0.7	168	23	31	4	23
L1800N 3850E	21	0.4	75	13	25	2	<10
L1800N 3900E	<5	<0.1	119	16	16	4	<10
L1800N 3950E	<5	0.3	115	19	25	5	10
L1800N 4000E	26	1.1	26	6	42	3	13
L1800N 4050E	11	0.4	25	6	49	4	<10
L1800N 4100E	16	0.5	53	25	24	5	88
L1800N 4150E	6	0.5	26	11	19	29	<10
L1800N 4250E	12	0.5	45	14	44	3	<10
L1800N 4300E	12	0.3	32	6	38	2	<10
L1900N 3000E	<5	0.1	16	4	28	4	<10

Certified by 



Jul-93date

Assay Certificate

Page5

Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L1900N 3100E	5	0.3	29	3	34	9	<10
L1900N 3150E	<5	0.6	18	5	37	7	<10
L1900N 3200E	<5	0.3	60	11	23	19	<10
L1900N 3250E	7	0.2	55	16	27	12	<10
L1900N 3300E	<5	0.2	103	9	21	20	<10
L1900N 3350E	<5	0.3	119	17	28	34	<10
L1900N 3400E	<5	0.2	67	5	40	16	<10
L1900N 3450E	<5	0.3	83	9	38	36	<10
L1900N 3500E	<5	0.1	138	7	228	5	<10
L2000N 1800E	138	2.4	69	157	375	3	614
L2000N 1850E	37	1.0	42	88	330	2	326
L2000N 1900E	50	0.9	21	104	336	2	262
L2000N 1950E	14	0.5	11	22	93	1	25
L2000N 2000E	73	0.9	12	120	241	1	30
L2000N 2050E	27	0.4	15	41	248	1	82
L2000N 2100E	30	0.6	59	144	191	2	163
L2000N 2150E	11	0.7	27	38	159	1	64
L2000N 2200E	19	0.6	12	44	167	1	106
L2000N 2250E	72	2.5	32	230	244	2	675
L2000N 2300E	138	1.5	42	20	80	1	36
L2000N 2850E	<5	0.5	60	3	123	3	<10
L2000N 2900E	8	0.7	77	5	37	6	<10
L2000N 2950E	34	0.9	85	1	38	5	<10
L2000N 3000E	13	0.5	81	5	33	38	<10
L2000N 3150E	6	0.3	126	3	37	5	<10
L2000N 3250E	5	0.4	38	2	31	13	<10
L2000N 3300E	5	0.6	89	38	24	31	<10
L2000N 3350E	6	0.4	27	4	39	6	<10
L2000N 3400E	12	0.5	15	7	44	4	<10
L2000N 3450E	6	0.1	13	12	32	4	<10
L2000N 3500E	12	0.3	38	8	30	8	<10
L2000N 3550E	5	0.3	44	9	22	14	<10
L2000N 3600E	12	0.4	36	14	32	13	<10
L2000N 3650E	12	0.3	17	10	40	5	<10
L2000N 3700E	8	0.3	14	9	34	7	<10
L2000N 3750E	17	0.3	12	10	37	4	<10
L2000N 3800E	18	0.4	19	19	38	14	12
L2000N 3850E	5	0.2	11	9	39	4	<10
L2000N 3900E	13	0.3	19	12	42	7	10
L2000N 3950E	44	0.3	11	9	42	4	<10
L2000N 4000E	86	0.4	31	22	35	4	22
L2000N 4050E	<5	0.6	12	11	23	2	<10

Certified by

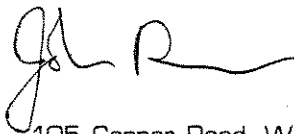



Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L2000N 4100E	11	0.4	22	14	44	3	11
L2000N 4150E	7	0.3	22	11	34	3	<10
L2000N 4200E	34	0.1	24	9	27	1	10
L2000N 4250E	15	0.5	24	12	39	2	<10
L2000N 4300E	11	0.1	37	9	21	1	<10
L2200N BL	16	1.0	9	93	178	1	51
L2200N 50W	25	0.9	21	52	130	1	42
L2200N 100W	9	0.5	3	37	65	1	36
L2200N 150W	<5	1.9	4	53	111	1	55
L2200N 200W	38	1.6	5	96	155	1	123
L2200N 250W	19	1.4	19	222	599	3	238
L2200N 300W	43	1.2	9	133	269	2	83
L2200N 350W	31	0.9	12	69	137	1	64
L2200N 400W	12	<0.1	6	26	74	1	27
L2200N 450W	63	1.9	27	73	171	1	86
L2200N 500W	18	<0.1	9	59	112	1	27
L2200N 50E	27	<0.1	6	121	248	1	47
L2200N 100E	31	0.1	9	86	126	1	37
L2200N 150E	66	1.3	15	227	332	2	98
L2200N 200E	72	0.1	13	43	135	1	33
L2200N 1600E	185	3.4	9	86	305	2	160
L2200N 1650E	20	<0.1	8	120	245	1	126
L2200N 1700E	73	1.5	27	190	489	<1	249
L2200N 1750E	29	<0.1	10	53	333	1	94
L2200N 1800E	46	4.2	35	223	430	1	166
L2200N 1850E	111	3.4	33	135	337	1	678
L2200N 1900E	135	<0.1	10	22	110	1	52
L2200N 1950E	14	<0.1	16	49	123	1	70
L2200N 2000E	39	1.5	17	90	159	1	61
L2200N 2050E	10	<0.1	4	12	65	<1	<10
L2200N 2100E	8	0.3	49	37	108	1	34
L2200N 2150E	91	2.1	71	72	328	1	108
L2200N 2200E	31	1.3	43	41	77	2	56
L2200N 2450E	12	0.6	44	9	38	1	<10
L2200N 2550E	20	0.5	68	14	50	6	36
L2200N 2600E	585	0.3	24	7	42	7	<10
L2200N 2650E	34	0.3	23	6	55	4	11
L2200N 2700E	18	0.4	22	3	44	5	11
L2200N 2750E	9	0.3	34	4	29	7	<10
L2200N 2800E	11	1.0	65	5	24	11	15
L2200N 2850E	9	0.4	32	4	27	7	13
L2200N 2900E	7	0.8	15	17	40	6	25

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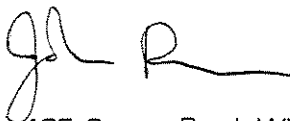



Aurchem Exploration

WO 13975

Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L2200N 2950E	13	0.6	21	10	27	13	11
L2200N 3000E	46	0.4	11	6	28	11	10
L2200N 3050E	271	0.2	15	8	33	15	<10
L2200N 3100E	465	0.1	39	6	26	14	<10
L2200N 3150E	100	0.4	16	7	27	26	<10
L2200N 3200E	30	0.2	13	16	27	13	<10
L2200N 3250E	31	0.3	15	20	38	17	10
L2200N 3300E	9	0.4	11	9	37	19	11
L2200N 3350E	6	0.1	19	10	33	9	41
L2200N 3400E	18	0.3	23	18	48	10	43
L2200N 3450E	26	0.4	29	14	44	7	49
L2200N 3500E	9	0.2	25	11	50	5	49
L2200N 3550E	16	0.1	25	8	33	4	43
L2200N 3600E	165	0.2	17	5	29	5	38
L2200N 3650E	12	0.2	16	3	30	3	36
L2200N 3700E	22	0.3	27	80	48	5	46
L2200N 3750E	7	0.6	19	32	45	4	48
L2200N 3800E	17	0.2	18	20	44	4	50
L2200N 3850E	29	0.1	18	5	43	4	51
L2200N 3900E	10	0.2	21	4	38	4	40
L2200N 3950E	11	0.2	21	10	35	5	39
L2200N 4000E	15	0.1	17	5	40	4	49
L2200N 4050E	42	0.5	45	10	30	5	66
L2200N 4100E	16	0.2	19	7	33	4	53
L2200N 4150E	21	0.3	21	10	40	4	62
L2200N 4200E	19	0.1	17	5	17	4	59
L2200N 4250E	6	0.1	24	7	33	1	<10
L2200N 4300E	15	0.2	21	3	44	4	64
L2400N 50E	19	1.0	18	39	124	3	91
L2400N 100E	14	2.0	19	80	149	1	73
L2400N 150E	9	0.6	8	33	69	1	56
L2400N 200E	10	0.9	12	28	111	2	87
L2400N 250E	13	1.9	43	88	169	1	99
L2400N 300E	36	0.3	12	21	123	2	81
L2400N 350E	14	0.7	13	16	72	1	73
L2400N 400E	8	0.6	17	30	78	1	61
L2400N 450E	10	1.3	11	21	80	1	46
L2400N 500E	140	0.5	14	41	88	1	60
L2400N 550E	156	0.4	17	49	97	1	61
L2400N 50W	14	0.1	8	44	51	2	48
L2400N 100W	15	0.8	12	38	73	2	57
L2400N 150W	16	0.9	8	79	70	<1	56

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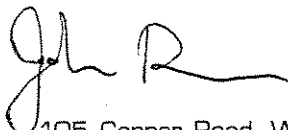



Aurchem Exploration

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L2400N 200W	9	<0.1	13	55	57	<1	54
L2400N 250W	11	0.8	12	42	90	<1	73
L2400N 300W	7	<0.1	12	40	82	<1	77
L2400N 350W	8	0.5	10	27	53	<1	47
L2400N 400W	10	0.1	9	23	56	<1	53
L2400N 450W	32	2.8	30	92	239	<1	81
L2400N 500W	16	0.2	15	49	93	<1	60
L2400N 550W	11	1.2	12	49	147	1	64
L2400N 600W	22	0.8	11	66	151	1	74
L2400N BL	14	0.3	9	29	71	<1	65
L2600N 50W	22	0.6	14	34	80	1	66
L2600N 100W	14	1.7	14	38	99	2	65
L2600N 150W	19	3.1	14	57	66	1	71
L2600N 200W	15	1.0	12	51	72	2	71
L2600N 250W	28	0.3	10	31	69	1	52
L2600N 300W	17	1.1	15	52	86	1	59
L2600N 350W	12	1.1	14	50	107	2	51
L2600N 400W	13	0.3	12	60	56	1	52
L2600N 450W	12	0.9	15	101	100	1	53
L2600N 500W	17	0.7	11	256	139	<1	58
L2600N 550W	22	1.5	13	170	148	1	124
L2600N 600W	39	0.9	19	43	137	1	58
L2600N 650W	14	0.8	13	39	127	2	71
L2600N 700W	13	0.5	15	52	82	1	65
L2600N 750W	7	0.6	13	23	101	2	51
L2600N 800W	11	0.4	12	103	129	2	68
L2600N 850W	24	0.7	16	24	74	1	61
L2600N BL	17	0.9	17	38	77	1	71
L2600N 50E	21	1.0	17	77	129	1	86
L2600N 100E	17	1.0	15	31	119	1	75
L2600N 150E	18	1.1	12	73	129	1	69
L2600N 200E	16	0.9	12	55	112	2	70
L2600N 250E	14	0.3	14	20	89	2	60
L2600N 300E	11	0.7	11	10	58	2	54
L2600N 350E	10	0.3	12	4	67	2	48
L2600N 400E	10	0.2	11	7	60	2	55
L2600N 450E	18	0.4	11	8	65	1	48
L2600N 500E	10	0.5	10	19	61	1	46
L2600N 550E	11	0.3	12	31	89	1	51
L2600N 600E	11	0.7	19	49	118	2	59
L2600N 650E	33	1.3	15	45	102	1	57
L2600N 700E	20	1.0	12	81	130	1	110

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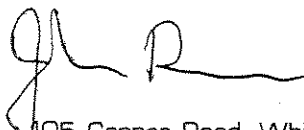



Aurchem Exploration

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L2600N 750E	26	1.0	14	50	133	<1	69
L2600N 800E	21	0.7	10	60	155	1	68
L2600N 850E	2496	0.6	17	10	173	1	70
L2600N 900E	32	1.2	19	57	341	<1	169
L2600N 950E	43	2.3	9	174	311	<1	256
L2600N 1000E	58	3.5	20	287	209	2	147
L2600N 1050E	27	0.6	14	88	144	1	141
L2600N 1100E	57	1.8	44	102	222	2	241
L2600N 1150E	39	0.8	18	87	159	2	178
L2600N 1200E	61	1.4	16	100	195	2	275
L2600N 1250E	134	0.7	16	119	142	2	274
L2600N 1300E	85	0.7	13	97	101	1	163
L2600N 1350E	30	0.4	15	65	128	2	191
L2600N 1400E	26	0.7	26	62	150	2	256
L2600N 1450E	275	4.5	56	184	211	3	647
L2600N 1500E	91	1.6	28	131	134	1	519
L2600N 1550E	30	0.7	23	53	259	2	168
L2600N 1600E	37	0.5	18	135	215	3	266
L2600N 1650E	183	0.4	17	32	178	2	133
L2600N 1700E	172	0.1	14	12	69	2	64
L2600N 1750E	41	0.5	21	22	132	3	86
L2600N 1800E	74	0.4	16	46	212	3	79
L2600N 1850E	25	0.3	12	99	300	4	115
L2600N 1900E	35	3.1	17	53	151	3	72
L2600N 1950E	19	2.7	14	38	298	3	105
L2600N 2000E	41	2.1	15	21	139	3	100
L2600N 2050E	17	0.8	19	37	213	4	129
L2600N 2100E	36	2.1	19	32	233	5	104
L2600N 2150E	40	1.4	15	23	199	4	106
L2600N 2200E	368	2.7	28	104	534	4	233
L2600N 2250E	142	1.4	23	84	114	6	140
L2600N 2300E	329	3.8	17	19	89	5	70
L2600N 2350E	243	1.4	25	52	87	4	78
L2600N 2400E	214	0.4	44	23	90	5	84
L2600N 2450E	14	0.1	37	10	49	5	62
L2600N 2500E	13	0.3	103	17	47	6	85
L2600N 2550E	18	0.3	36	8	37	4	46
L2600N 2600E	27	1.0	95	7	49	7	86
L2600N 2650E	7	0.4	36	2	30	1	<10
L2600N 2700E	16	0.2	78	26	46	5	<10
L2600N 2750E	30	0.9	97	27	66	11	70
L2600N 2800E	13	0.7	99	15	41	32	65

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L2600N 2850E	5	<0.1	13	6	21	1	<10
L2600N 2900E	194	1.1	137	33	36	61	82
L2600N 2950E	248	0.6	92	13	33	85	94
L2600N 3000E	41	0.5	135	9	31	126	95
L2900N BL	57	1.3	11	52	149	3	69
L2900N 50E	11	1.6	13	41	92	<1	58
L2900N 100E	7	0.6	12	29	60	1	48
L2900N 150E	63	0.6	7	63	110	2	50
L2900N 200E	21	0.5	13	68	137	3	51
L2900N 250E	7	0.9	14	29	69	3	57
L2900N 300E	6	0.2	11	28	56	3	78
L2900N 350E	8	0.5	11	22	59	2	71
L2900N 400E	6	0.5	10	9	37	3	64
L2900N 50W	<5	0.1	14	53	82	2	87
L2900N 100W	7	0.3	12	105	69	2	73
L2900N 150W	8	0.2	11	101	48	<1	54
L2900N 200W	12	0.4	13	60	67	2	67
L2900N 250W	10	1.0	12	129	98	1	94
L2900N 300W	27	<0.1	11	91	93	2	80
L2900N 350W	9	0.1	13	101	117	3	49
L2900N 400W	<5	0.1	8	119	129	3	53
L2900N 450W	8	0.9	14	208	145	3	122
L2900N 500W	9	0.5	10	121	187	3	64
L2900N 550W	11	0.7	19	112	173	3	64
L2900N 600W	11	0.1	25	86	137	3	63
L3000N 600E	6	<0.1	7	56	70	1	29
L3000N 650E	7	0.3	16	68	97	1	38
L3000N 700E	45	0.7	12	67	85	2	39
L3000N 750E	15	1.0	16	92	144	2	44
L3000N 800E	11	0.3	9	60	101	3	42
L3000N 850E	16	0.2	11	51	184	3	70
L3000N 900E	22	0.3	9	15	110	3	41
L3000N 950E	21	0.2	9	26	81	3	24
L3000N 1000E	16	0.3	17	17	82	2	45
L3000N 1050E	19	0.8	11	37	90	2	57
L3000N 1100E	40	1.2	17	71	165	4	153
L3000N 1150E	30	2.4	16	271	210	2	523
L3000N 1200E	>6667	10.9	40	361	229	1	762
L3000N 1250E	131	4.6	14	142	83	1	168
L3000N 1300E	241	9.2	58	215	325	3	499
L3000N 1350E	152	3.9	42	170	195	2	379
L3000N 1400E	167	3.2	83	160	80	1	70

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L3000N 1450E	300	2.3	91	69	57	1	31
L3000N 1500E	107	6.7	32	52	94	3	29
L3000N 1550E	41	2.3	22	21	34	3	21
L3000N 1600E	39	1.4	43	47	86	<1	63
L3000N 1650E	47	0.9	20	27	115	<1	61
L3000N 1700E	71	1.8	25	34	181	1	83
L3000N 1750E	29	7.4	57	49	93	1	54
L3000N 1800E	292	3.6	27	104	141	1	114
L3000N 1850E	70	3.7	23	47	94	1	79
L3000N 1900E	337	3.2	22	62	101	3	96
L3000N 1950E	115	3.4	44	69	100	2	98
L3000N 2000E	44	1.6	21	42	57	1	78
L3000N 2050E	26	0.8	17	20	52	1	59
L3000N 2100E	15	0.8	11	39	40	2	40
L3000N 2150E	57	<0.1	17	78	67	4	56
L3000N 2200E	80	<0.1	15	44	69	5	76
L3200N 500E	16	1.0	22	68	145	2	56
L3200N 550E	9	0.2	7	32	49	1	38
L3200N 600E	1242	1.7	14	52	72	2	42
L3200N 650E	14	0.7	12	24	58	1	33
L3200N 700E	7	1.2	13	79	152	1	53
L3200N 750E	25	0.9	15	42	159	1	64
L3200N 800E	12	0.2	7	17	77	1	45
L3200N 850E	14	<0.1	9	13	129	1	67
L3200N 900E	21	0.1	11	37	161	<1	74
L3200N 950E	23	0.3	10	29	75	2	68
L3200N 1000E	14	<0.1	11	14	114	3	45
L3200N 1050E	16	0.6	16	22	126	3	48
L3200N 1100E	31	1.1	16	52	222	3	105
L3200N 1150E	134	3.5	67	1058	510	4	1513
L3200N 1200E	18	1.0	35	52	155	2	73
L3200N 1250E	45	3.6	34	102	157	3	71
L3200N 1300E	65	4.3	52	51	65	9	883
L3200N 1350E	45	6.2	43	37	23	3	98
L3200N 1400E	19	0.8	14	52	24	1	28
L3200N 1450E	26	0.7	18	39	74	2	29
L3200N 1500E	21	1.1	32	42	263	4	49
L3200N 1550E	47	4.0	48	69	47	6	131
L3200N 1600E	38	2.5	10	49	42	<1	27
L3200N 1650E	31	2.3	21	10	95	1	35
L3200N 1700E	39	1.5	24	35	37	2	64
L3200N 1750E	29	0.9	14	8	64	1	50

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L3200N 1800E	12	0.5	11	29	36	3	72
L3200N 1850E	40	0.6	10	24	64	1	42
L3200N 1900E	236	0.2	25	16	27	3	58
L3200N 1950E	22	0.4	15	18	42	2	42
L3200N 2000E	51	1.8	29	78	73	4	54
L3200N 2050E	29	0.8	16	51	32	1	44
L3200N 2100E	13	0.4	14	16	55	2	63
L3400N 400E	6	1.4	11	119	119	2	65
L3400N 450E	5	0.7	9	61	104	3	57
L3400N 500E	7	0.5	10	116	103	2	53
L3400N 550E	9	1.1	6	83	141	3	43
L3400N 600E	21	1.9	13	247	306	2	75
L3400N 650E	85	1.4	13	128	189	3	61
L3400N 700E	37	1.2	18	65	140	2	49
L3400N 750E	71	0.6	11	34	220	1	63
L3400N 800E	13	0.4	11	18	81	<1	36
L3400N 850E	24	0.7	10	17	153	<1	46
L3400N 900E	9	0.4	9	35	107	<1	51
L3400N 950E	78	0.2	10	21	125	1	59
L3400N 1000E	118	0.9	29	22	93	2	49
L3400N 1050E	13	0.2	26	13	113	1	54
L3400N 1100E	31	0.9	19	33	371	2	88
L3400N 1150E	31	1.1	24	26	160	2	66
L3400N 1200E	70	5.8	42	37	65	1	51
L3400N 1250E	125	10.7	75	57	101	1	64
L3400N 1300E	27	1.5	29	18	29	<1	39
L3400N 1350E	47	0.7	61	35	73	3	119
L3400N 1400E	37	1.8	36	14	34	1	37
L3400N 1450E	772	0.2	83	38	96	3	103
L3400N 1500E	46	7.3	54	37	35	2	49
L3400N 1550E	190	3.4	56	46	107	1	71
L3400N 1600E	148	1.4	23	21	21	<1	26
L3400N 1650E	70	0.7	18	15	39	<1	33
L3400N 1700E	85	1.2	103	47	120	4	76
L3400N 1750E	88	0.1	23	33	58	1	50
L3400N 1800E	109	0.4	41	46	88	2	58
L3400N 1850E	246	1.3	43	25	81	3	54
L3400N 1900E	64	0.7	42	17	73	3	45
L3400N 1950E	28	0.3	19	20	52	1	37
L3400N 2000E	21	0.5	19	8	39	1	32
L3500N 0	22	<0.1	13	16	37	<1	36
L3500N 50E	10	0.1	22	36	61	1	56

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L3500N 100E	26	0.3	11	30	52	<1	51
L3500N 150E	<5	0.2	9	18	67	2	17
L3500N 200E	9	0.3	10	20	56	1	12
L3500N 250E	17	0.7	17	89	228	2	29
L3500N 300E	12	<0.1	11	41	108	2	13
L3500N 350E	11	0.3	13	55	112	2	14
L3500N 400E	13	0.5	11	154	146	2	11
L3500N 450E	13	0.9	12	188	179	2	11
L3500N 500E	12	1.0	10	183	169	2	<10
L3500N 550E	25	3.0	9	173	200	3	17
L3500N 600E	34	3.2	13	250	502	3	46
L3500N 650E	12	0.6	12	87	158	2	<10
L3500N 700E	8	0.1	3	6	26	<1	<10
L3500N 750E	10	0.1	12	13	139	1	<10
L3500N 800E	9	0.4	14	3	36	2	<10
L3500N 850E	27	0.3	13	14	166	3	17
L3500N 900E	20	0.7	20	24	227	3	20
L3500N 950E	10	0.3	13	13	152	3	12
L3500N 1000E	17	0.5	21	7	97	2	<10
L3500N 1050E	19	0.1	12	14	133	2	14
L3500N 1100E	28	1.3	33	26	181	3	23
L3500N 1150E	798	3.0	42	43	134	2	66
L3500N 1200E	31	1.9	12	29	19	1	27
L3500N 1250E	370	12.1	56	110	62	5	69
L3500N 1300E	68	1.2	38	72	15	4	50
L3500N 1350E	147	10.7	55	60	45	6	36
L3500N 1400E	10	5.5	70	69	60	6	39
L3500N 1450E	656	5.3	82	34	70	4	40
L3500N 1500E	90	1.6	69	34	101	3	36
L3500N 1550E	68	6.8	51	48	63	2	18
L3500N 1600E	45	1.2	25	38	49	2	10
L3500N 1650E	41	1.1	27	21	24	<1	<10
L3500N 1700E	30	0.4	29	17	25	2	11
L3500N 1750E	335	0.4	36	33	73	3	22
L3500N 1800E	31	0.2	23	19	47	3	12
L3700N 0	14	0.4	12	28	60	4	15
L3700N 50W	17	0.3	15	31	46	3	15
L3700N 100W	7	0.3	12	16	43	3	20
L3700N 150W	9	0.5	9	25	32	3	<10
L3700N 200W	14	0.2	12	20	50	4	19
L3700N 250W	11	0.2	13	15	61	3	16
L3700N 300W	13	0.9	15	30	73	2	16

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L3700N 350W	8	0.5	18	43	109	4	<10
L3700N 400W	14	0.5	18	38	127	4	37
L3700N 50E	7	0.3	11	19	54	1	<10
L3700N 100E	108	1.1	17	115	139	2	20
L3700N 150E	21	0.3	11	64	158	2	18
L3700N 200E	13	0.6	10	46	109	1	15
L3700N 250E	25	0.6	8	99	151	1	<10
L3700N 300E	12	0.3	8	39	132	1	15
L3700N 350E	24	0.5	19	65	282	2	15
L3700N 400E	21	0.3	10	40	164	1	18
L3700N 450E	11	0.2	8	18	69	<1	11
L3700N 500E	236	0.6	17	45	179	3	<10
L3800N 0	37	1.0	16	147	178	6	18
L3800N 50E	14	0.4	15	39	59	3	11
L3800N 100E	13	0.3	11	34	83	3	11
L3800N 150E	42	1.3	20	162	334	4	28
L3800N 200E	162	2.4	10	434	596	3	42
L3800N 250E	19	1.1	19	219	425	3	22
L3800N 50W	9	0.8	13	115	149	3	25
L3800N 100W	31	3.1	40	305	420	4	48
L3800N 150W	11	1.8	22	109	115	3	20
L3800N 200W	158	1.6	15	24	69	3	20
L3800N 250W	30	4.0	12	17	58	2	10
L3800N 300W	52	0.5	15	33	71	1	14
L3800N 350W	22	0.7	26	89	104	2	28
L3800N 400W	1002	4.3	29	487	354	2	316
L3800N 450W	15	0.5	15	16	112	3	15
L3800N 500W	25	0.3	12	14	67	2	15
L3800N 550W	9	0.1	16	21	73	2	14
L4000N BL	9	0.6	14	17	78	2	<10
L4000N 50E	347	5.3	153	73	1496	17	115
L4000N 100E	62	2.0	30	62	579	4	34
L4000N 150E	69	1.6	31	86	426	4	37
L4000N 200E	6	0.8	12	54	406	2	25
L4000N 250E	36	2.7	23	123	476	2	37
L4000N 300E	61	2.2	18	257	368	3	40
L4000N 350E	263	2.3	27	49	512	2	29
L4000N 50W	16	0.4	16	18	68	2	<10
L4000N 100W	10	0.3	15	11	40	1	<10
L4000N 150W	6	0.9	20	19	88	2	16
L4000N 200W	31	1.4	12	56	116	2	13
L4000N 250W	70	1.8	27	116	855	2	34

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L4000N 300W	63	1.4	64	89	1360	2	59
L4000N 350W	6	0.8	12	28	99	1	13
L4000N 400W	7	1.1	29	27	84	2	13
L4000N 450W	9	0.9	21	23	99	1	16
L4000N 500W	39	0.7	16	32	127	1	<10
L4000N 550W	44	1.3	20	190	273	1	73
L4000N 600W	8	0.9	15	15	66	3	12
L4000N 650W	10	1.1	19	27	69	2	13
L4000N 700W	9	0.9	16	21	37	2	12
L4000N 750W	48	2.2	11	101	94	2	50
L4000N 800W	5	0.9	13	9	137	2	11
L4000N 850W	15	0.9	16	17	63	2	11
L4000N 900W	7	0.8	12	10	55	3	13
L4000N 950W	19	1.6	24	171	73	3	85
L4000N 1000W	6	0.7	23	12	261	3	<10
L4100N BL	157	2.5	50	32	1002	4	75
L4100N 50E	62	2.1	44	34	209	3	46
L4100N 100E	277	1.0	20	35	182	<1	48
L4100N 150E	303	3.3	63	83	570	5	44
L4100N 50W	42	1.1	37	30	241	2	33
L4100N 100W	618	3.3	53	50	730	3	112
L4100N 150W	151	1.2	36	43	701	2	79
L4100N 200W	320	3.3	43	391	489	<1	96
L4100N 250W	78	5.9	47	1041	666	1	54
L4100N 300W	345	2.4	42	647	588	1	282
L4100N 350W	323	0.6	22	137	460	1	33
L4100N 400W	71	2.3	58	93	537	2	36
L4100N 450W	57	0.6	23	125	479	1	34
L4100N 500W	40	0.8	25	83	442	1	17
L4100N 550W	35	0.5	20	97	328	2	23
L4100N 600W	36	5.1	28	865	251	3	24
L4100N 650W	19	0.3	19	50	241	2	21
L4100N 700W	18	0.4	23	92	549	4	26
L4100N 750W	211	3.2	39	638	369	3	584
L4100N 800W	24	0.1	28	71	474	6	65
L4100N 850W	7	0.1	13	20	80	3	16
L4100N 900W	90	0.2	41	45	99	4	28
L4100N 950W	39	0.8	19	134	205	1	62
L4100N 1000W	7	<0.1	13	12	65	2	12
L4200N BL	9	0.1	10	18	42	1	<10
L4200N 50E	151	3.7	38	71	557	3	84
L4200N 100E	1063	3.2	82	64	752	4	128

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L4200N 150E	119	2.3	35	65	174	5	70
L4200N 200E	56	1.1	29	26	125	5	26
L4200N 250E	13	0.6	26	12	91	1	<10
L4200N 300E	413	7.4	30	105	573	11	76
L4200N 350E	46	1.7	17	56	427	4	27
L4200N 400E	143	3.8	18	69	263	3	29
L4200N 450E	74	1.4	31	32	229	3	21
L4200N 50W	31	0.6	18	19	374	2	12
L4200N 100W	10	0.1	15	7	80	1	<10
L4200N 150W	106	1.0	23	91	402	2	23
L4200N 200W	40	2.6	27	435	577	2	30
L4200N 250W	45	0.8	20	59	301	3	35
L4200N 300W	71	3.3	27	352	567	3	99
L4200N 350W	67	1.5	32	96	588	3	27
L4200N 400W	59	1.4	30	61	373	2	28
L4200N 450W	61	0.9	19	83	248	2	12
L4200N 500W	1999	7.8	103	1464	1762	5	496
L4200N 550W	76	0.3	20	50	318	3	14
L4200N 600W	9	0.4	18	40	151	2	17
L4200N 650W	9	0.4	17	34	279	2	15
L4200N 700W	11	0.5	18	39	166	3	18
L4200N 750W	109	5.1	93	1353	1068	3	579
L4200N 800W	63	2.0	41	232	1166	5	212
L4200N 850W	16	0.3	23	39	291	3	36
L4200N 900W	65	0.5	45	30	311	5	21
L4200N 950W	11	0.2	16	15	73	3	18
L4200N 1000W	115	0.9	27	98	256	2	79
L4300N 100W	78	2.3	35	100	500	4	56
L4300N 150W	41	1.1	13	224	361	2	16
L4300N 200W	39	0.7	16	79	389	3	32
L4300N 250W	40	0.8	16	82	385	3	28
L4300N 300W	61	1.2	24	95	562	3	40
L4300N 350W	70	1.6	35	79	606	3	26
L4300N 400W	68	0.9	19	77	354	3	40
L4300N 450W	209	1.8	37	167	670	3	47
L4300N 500W	105	0.9	29	110	784	3	45
L4300N 550W	9	<0.1	16	15	148	1	<10
L4300N 600W	37	0.1	16	50	584	2	10
L4300N 650W	<5	<0.1	12	1	27	<1	<10
L4300N 700W	8	<0.1	18	21	79	1	<10
L4300N 750W	34	0.8	26	149	817	2	42
L4300N 800W	30	0.2	14	66	255	1	29

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L4300N 850W	26	0.4	20	25	101	<1	23
L4300N 900W	53	0.8	28	32	331	2	29
L4300N 950W	75	0.5	20	14	86	1	11
L4300N 1000W	76	1.1	28	95	395	2	55
L4400N 0	430	1.6	61	303	305	2	92
L4400N 50E	276	0.5	22	34	277	2	14
L4400N 100E	75	1.2	22	44	233	2	31
L4400N 150E	40	0.5	18	10	199	2	14
L4400N 200E	13	<0.1	16	3	35	1	<10
L4400N 250E	58	0.5	22	16	197	1	15
L4400N 300E	121	1.1	147	80	291	2	44
L4400N 350E	54	0.4	43	38	345	1	28
L4400N 400E	63	1.0	91	37	199	2	25
L4400N 450E	32	0.6	6	25	234	2	15
L4400N 50W	401	4.8	33	232	432	4	157
L4400N 100W	176	3.4	20	220	584	4	94
L4400N 150W	138	3.3	18	237	497	3	49
L4400N 200W	151	2.7	128	197	410	3	65
L4400N 250W	205	2.9	54	207	633	3	38
L4400N 300W	112	2.0	47	123	483	3	57
L4400N 350W	219	0.7	75	62	238	3	19
L4400N 400W	111	2.8	52	218	624	3	36
L4400N 450W	568	7.0	98	520	1297	5	164
L4400N 500W	36	1.4	42	44	708	3	20
L4400N 550W	30	0.6	111	28	263	3	<10
L4400N 600W	63	0.8	80	46	479	3	13
L4400N 650W	6	0.4	52	15	131	1	<10
L4400N 700W	10	1.4	34	85	332	1	<10
L4400N 750W	151	4.8	19	598	1231	2	153
L4400N 800W	13	0.6	31	53	293	2	26
L4400N 850W	14	0.6	19	28	159	2	16
L4400N 900W	19	0.7	22	42	174	2	18
L4400N 950W	18	0.5	24	20	110	2	20
L4400N 1000W	38	<0.1	36	118	178	1	10
L4500N BL	412	7.7	78	703	437	4	258
L4500N 50E	1235	13.3	44	669	462	4	160
L4500N 100E	37	1.2	21	19	206	2	14
L4500N 150E	91	0.8	51	77	218	2	23
L4500N 200E	68	1.8	60	95	232	4	21
L4500N 50W	213	2.9	52	178	497	3	125
L4500N 100W	112	2.1	59	241	440	4	67
L4500N 150W	116	1.4	30	167	483	3	30

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20 Jul-93 date

Assay Certificate

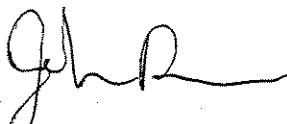
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Aurchem Exploration

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Mo ppm	As ppm
L4500N 200W	148	2.5	63	313	684	4	108
L4500N 250W	337	3.4	47	339	730	3	88
L4500N 300W	49	1.2	31	64	295	3	25
L4500N 350W	93	1.9	31	224	448	3	39
L4500N 400W	456	4.8	57	412	1390	5	110
L4500N 450W	18	0.6	20	24	281	3	<10
L4500N 500W	133	0.3	15	36	238	3	11
L4500N 550W	18	0.2	21	38	282	2	<10
L4500N 600W	82	<0.1	19	21	258	2	10
L4500N 650W	16	0.1	20	29	164	2	<10
L4500N 700W	65	2.1	24	437	843	2	95
L4500N 750W	53	1.6	33	213	938	3	165
L4500N 800W	13	0.1	12	14	176	1	12
L4500N 850W	13	<0.1	10	1	90	1	<10
L4500N 900W	18	0.8	19	77	148	1	<10
L4500N 950W	36	0.4	33	117	294	1	21
L4500N 1000W	19	0.3	17	77	389	2	<10
L4600N 100W	454	5.3	78	636	498	3	111
L4600N 150W	64	1.7	33	135	450	2	48
L4600N 200W	169	2.1	26	198	675	2	67
L4600N 250W	145	2.0	35	145	557	3	49
L4600N 300W	84	0.7	22	48	247	2	16
L4600N 350W	170	2.2	34	160	746	3	34
L4600N 400W	32	0.7	18	42	303	2	10
L4600N 450W	29	0.1	18	25	176	1	<10
L4600N 500W	23	0.1	17	34	215	1	10
L4600N 550W	25	<0.1	19	28	211	1	<10
L4600N 600W	62	0.6	25	47	320	1	23
L4600N 650W	50	1.3	20	165	742	1	33
L4600N 700W	90	1.4	17	224	652	1	177
L4600N 750W	24	0.5	29	88	385	2	40
L4600N 800W	53	<0.1	24	27	100	2	<10
L4600N 850W	95	0.3	20	34	265	3	14
L4600N 900W	45	0.9	33	248	274	3	18
L4600N 950W	22	0.3	16	45	533	3	15
L4600N 1000W	11	<0.1	19	44	314	2	15
L4600N 1050W	36	1.3	16	567	398	2	91
L4600N 1100W	74	1.1	17	116	568	4	140
L4600N 1150W	34	1.2	30	916	754	3	86
L4600N 1200W	16	<0.1	14	24	273	3	29
LS365N/600W 1-0W	13	<0.1	13	15	100	2	18
LS365N/650W 1-50W	18	0.1	10	30	137	3	14

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Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn. ppm	Mo ppm	As ppm
5365N/700W 1-100W	93	<0.1	12	17	122	3	<10
5365N/750W 1-150W	26	<0.1	15	24	142	2	16
5365N/800W 1-200W	5	<0.1	7	7	36	1	<10
5365N/850W 1-250W	109	0.3	11	52	201	2	16
5565N/600W 2-0W	9	<0.1	10	3	47	2	<10
5565N/550W 2-50E	16	<0.1	14	16	108	1	22
5565N/500W 2-100E	22	<0.1	12	17	115	2	<10
5565N/450W 2-150E	16	<0.1	7	27	48	1	<10
5565N/650W 2-50W	34	0.2	12	39	179	1	10
5565N/700W 2-100W	6	<0.1	12	9	41	1	<10
5565N/750W 2-150W	17	0.1	15	26	130	2	<10
6000N/575W 8-100E	129	0.4	14	30	181	2	<10
6000N/525W 8-150E	18	0.1	14	21	117	1	<10
6000N/475W 8-200E	26	0.2	16	19	120	1	10
6000N/425W 8-250E	16	0.6	12	38	159	2	31
6000N/375W 8-300E	9	<0.1	7	15	74	1	16
6000N/325W 8-350E	35	0.5	19	59	155	2	28

NOTES: L400N 3700E, which you noted as missing, was received.  
 L5400N 1-150E to 1-150W - Instead we received 1-0W to 1-250W.  
 L5600N 2-250W to 2-0W - Instead we received 2-150E to 2-150W.

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## CERTIFICATE OF ANALYSIS

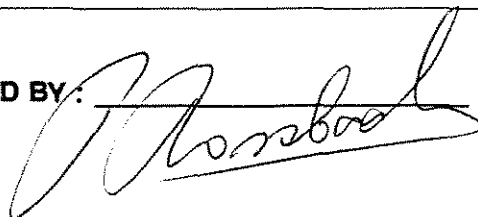
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6262

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 1

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	300N 2200E	2	38	3.2	78	20	60	50
S	300N 2250E	2	36	1.4	86	14	460	82
S	300N 2300E	1	28	0.4	80	13	130	58
S	300N 2350E	2	20	0.5	66	4	30	28
S	300N 2400E	2	30	0.8	110	9	80	80
S	300N 2450E	2	48	3.6	84	18	100	180
S	300N 2500E	1	24	0.6	66	13	40	52
S	300N 2550E	2	48	0.7	132	20	110	144
S	300N 2600E	2	26	0.7	98	20	40	72
S	300N 2650E	3	56	2.1	189	54	230	134
S	300N 2700E	1	20	1.0	82	19	60	32
S	300N 2750E	1	26	0.6	91	28	40	48
S	300N 2800E	2	28	0.8	94	29	30	80
S	300N 2850E	2	44	0.6	108	30	20	72
S	300N 2900E	3	40	2.6	143	46	40	112
S	300N 2950E	2	19	0.6	96	30	40	68
S	300N 3000E	1	29	0.6	108	21	20	44
S	300N 3050E	3	52	0.6	188	42	50	90
S	300N 3100E	1	24	0.3	94	22	40	34
S	300N 3150E	2	39	0.4	146	42	40	34
S	300N 3200E	2	28	0.5	104	30	20	60
S	300N 3250E	1	36	0.3	147	46	180	80
S	300N 3300E	2	26	0.3	93	24	60	46
S	300N 3350E	2	34	0.4	118	36	50	48
S	300N 3400E	1	38	0.5	144	42	40	100
S	300N 3450E	1	24	0.6	88	24	30	50
S	300N 3500E	1	32	0.5	122	36	40	76
S	300N 3550E	3	63	0.6	230	56	80	170
S	300N 3600E	2	24	0.5	92	23	20	48
S	300N 3650E	2	36	0.7	114	28	30	84
S	300N 3700E	2	32	0.6	122	38	30	108
S	300N 3750E	2	28	0.4	104	26	20	76
S	300N 3800E	1	16	0.3	84	23	30	52
S	400N 3500E	2	22	1.2	104	32	40	48
S	500N 2200E	1	32	1.8	96	20	60	84
S	500N 2250E	1	28	0.6	124	14	60	100
S	500N 2300E	2	26	1.0	58	9	20	68
S	500N 2350E	1	30	0.6	70	14	30	72
S	500N 2400E	1	36	1.7	78	9	70	72
S	500N 2450E	1	26	0.2	87	13	180	44

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# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

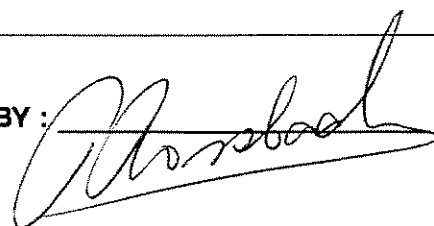
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 2

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	500N 2500E	2	27	0.6	88	19	70	52
S	500N 2550E	1	31	0.3	116	34	30	48
S	500N 2600E	2	30	0.6	98	15	70	52
S	500N 2650E	1	24	0.7	109	25	90	52
S	500N 2700E	1	14	0.3	66	9	10	32
S	500N 2750E	1	8	0.2	45	2	20	16
S	500N 2800E	1	24	0.9	118	26	170	34
S	500N 2850E	1	28	0.2	112	26	50	52
S	500N 2900E	1	52	0.9	186	29	50	60
S	500N 2950E	2	8	0.4	50	3	20	2
S	500N 3000E	2	6	0.2	46	4	10	10
S	500N 3050E	1	19	0.6	104	26	40	46
S	500N 3100E	1	24	0.3	107	28	20	44
S	500N 3150E	1	28	0.3	112	30	40	56
S	500N 3200E	1	30	0.4	136	30	60	74
S	500N 3250E	2	26	0.2	122	24	70	66
S	500N 3300E	2	28	0.8	104	20	250	68
S	500N 3350E	1	22	0.3	96	22	30	56
S	500N 3400E	1	28	0.8	145	40	30	84
S	500N 3450E	1	20	0.7	132	42	30	76
S	500N 3500E	2	17	0.3	115	32	60	80
S	500N 3550E	2	27	0.2	125	38	30	92
S	500N 3600E	3	14	0.8	96	24	20	40
S	500N 3650E	1	22	0.4	98	26	10	66
S	500N 3700E	1	23	0.2	128	32	40	86
S	500N 3750E	1	25	0.3	108	28	30	72
S	500N 3800E	1	19	0.4	96	22	20	56
S	500N 3850E	1	16	0.1	78	14	150	48
S	700N 2600E	2	22	0.2	98	20	20	44
S	700N 2650E	2	22	0.2	116	28	20	50
S	700N 2700E	2	26	0.4	112	22	20	48
S	700N 2750E	1	36	1.0	168	42	20	108
S	700N 2800E	1	28	0.6	126	38	40	64
S	700N 2850E	1	24	1.0	116	32	40	60
S	700N 2950E	1	22	0.4	112	30	30	86
S	700N 3000E	1	32	0.8	130	28	80	56
S	700N 3050E	1	18	0.7	112	26	20	44
S	700N 3150E	1	24	0.4	122	34	120	76
S	700N 3200E	3	44	0.8	186	40	30	108
S	700N 3250E	2	34	0.8	130	42	40	76

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## CERTIFICATE OF ANALYSIS

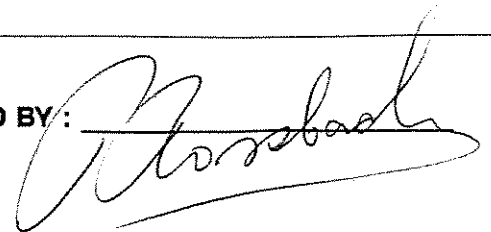
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 3

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	700N 3300E	1	38	0.6	152	38	40	108
S	700N 3350E	2	22	0.8	124	30	20	84
S	700N 3400E	1	29	0.7	143	38	80	104
S	700N 3500E	2	12	0.6	10	32	30	52
S	700N 3600E	2	30	0.5	158	51	60	124
S	700N 3650E	1	22	0.6	120	39	20	68
S	700N 3700E	1	18	0.4	106	36	30	80
S	700N 3750E	2	19	0.3	112	36	40	76
S	700N 3800E	1	22	0.3	108	38	30	80
S	700N 3850E	1	36	0.6	136	54	120	124
S	700N 3900E	1	28	1.2	158	61	60	120
S	700N 3950E	1	22	0.6	106	26	30	112
S	700N 4000E	2	26	0.8	138	56	40	108
S	800N 3500E	2	16	0.6	110	38	20	92
S	900N 2200E	1	38	1.0	124	36	220	100
S	900N 2250E	2	34	1.4	126	24	40	60
S	900N 2350E	2	44	1.0	146	26	40	84
S	900N 2400E	2	24	0.6	107	14	880	92
S	900N 2450E	2	34	0.8	138	39	530	84
S	900N 2500E	2	42	0.8	154	44	70	92
S	900N 2550E	1	38	0.7	137	38	40	72
S	900N 2600E	2	24	0.7	103	30	30	52
S	900N 2650E	2	30	0.6	130	38	40	60
S	900N 2700E	1	22	1.0	122	32	60	72
S	900N 2750E	1	32	0.8	127	34	40	86
S	900N 2800E	2	23	0.6	118	36	20	44
S	900N 2850E	2	42	0.5	160	56	30	96
S	900N 2900E	1	26	0.5	126	32	60	68
S	900N 2950E	1	30	0.7	158	40	30	100
S	900N 3000E	1	34	0.7	184	50	140	104
S	900N 3050E	1	18	0.8	79	16	5	48
S	900N 3100E	1	26	0.4	114	36	30	64
S	900N 3150E	1	39	0.6	150	50	60	116
S	900N 3200E	2	26	0.4	138	50	60	120
S	900N 3250E	2	32	0.6	142	46	30	84
S	900N 3300E	1	30	0.6	143	47	40	76
S	900N 3350E	1	26	0.4	134	42	50	72
S	900N 3400E	3	36	1.6	142	44	60	124
S	900N 3450E	3	22	0.8	108	38	10	108
S	900N 3500E	2	4	0.2	42	2	5	8

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# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

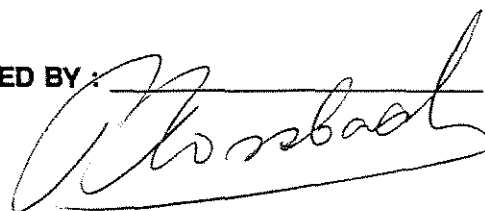
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 4

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	900N 3550E	2	22	0.8	112	34	30	76
S	900N 3600E	2	17	0.4	104	34	20	80
S	900N 3650E	1	17	1.0	102	20	10	52
S	900N 3700E	1	18	0.6	98	24	10	64
S	900N 3750E	2	17	0.3	108	36	90	80
S	900N 3800E	2	21	0.8	10	46	60	92
S	900N 3850E	2	19	0.6	100	34	60	72
S	900N 3900E	1	17	0.8	101	44	30	50
S	900N 3950E	1	18	0.4	92	28	20	68
S	1000N 3050E	1	37	1.0	116	22	20	72
S	1000N 3150E	1	35	0.4	140	54	70	124
S	1000N 3250E	1	50	1.8	198	72	80	140
S	1000N 3350E	1	36	0.3	154	45	40	112
S	1000N 3450E	2	32	0.8	148	54	40	86
S	1000N 3550E	2	22	0.8	106	38	20	96
S	1000N 3650E	2	32	0.8	148	32	60	92
S	1000N 3750E	1	30	1.0	124	36	80	72
S	1000N 3800E	1	26	1.6	136	48	160	112
S	1000N 3850E	1	30	0.8	99	20	50	44
S	1000N 3900E	2	28	1.0	78	12	20	40
S	1000N 3950E	1	70	0.8	64	10	90	44
S	1000N 4000E	2	78	0.8	72	17	10	52
S	1100N 2200E	3	56	2.8	174	62	80	72
S	1100N 2250E	2	27	1.2	104	34	340	64
S	1100N 2300E	1	14	1.0	78	10	30	28
S	1100N 2350E	1	13	1.0	66	14	20	32
S	1100N 2400E	1	26	0.8	129	26	40	60
S	1100N 2450E	1	28	1.8	138	42	20	58
S	1100N 2500E	1	26	1.6	142	52	30	104
S	1100N 2550E	1	18	1.0	89	26	5	54
S	1100N 2600E	2	34	1.4	156	54	40	124
S	1100N 2650E	2	30	2.2	179	68	40	108
S	1100N 2700E	2	29	1.4	162	64	50	56
S	1100N 2750E	1	34	0.8	150	66	40	64
S	1100N 2800E	1	40	0.8	174	56	70	98
S	1100N 2850E	1	30	0.6	145	46	80	60
S	1100N 2900E	1	48	0.4	194	68	1400	156
S	1100N 2950E	3	38	1.8	138	38	480	96
S	1100N 3000E	2	22	2.4	89	26	30	86
S	1100N 3050E	3	30	0.8	144	28	40	76

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# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

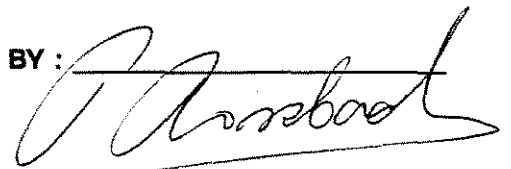
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 6

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	1300N 2750E	2	38	0.4	140	55	40	104
S	1300N 2800E	2	33	0.2	160	79	80	96
S	1300N 2850E	1	40	0.3	158	72	60	120
S	1300N 2900E	2	34	0.5	146	70	70	104
S	1300N 2950E	2	34	0.5	144	69	30	92
S	1300N 3000E	1	34	0.7	146	68	50	120
S	1300N 3050E	1	34	0.7	154	66	40	92
S	1300N 3100E	1	36	0.4	154	66	60	112
S	1300N 3150E	1	28	0.4	136	60	30	96
S	1300N 3200E	1	28	0.8	146	56	40	88
S	1300N 3250E	3	28	0.6	134	48	40	80
S	1300N 3300E	3	32	0.4	132	62	40	88
S	1300N 3350E	1	24	0.6	116	56	30	74
S	1300N 3400E	2	22	0.6	110	42	20	72
S	1300N 3450E	2	18	0.4	90	33	30	40
S	1300N 3500E	2	46	0.3	94	21	2150	20
S	1300N 3550E	1	26	0.5	144	28	30	32
S	1300N 3700E	1	36	0.8	88	20	30	10
S	1300N 3750E	1	33	0.7	62	14	40	8
S	1300N 3800E	1	46	0.2	54	14	190	20
S	1300N 3850E	2	26	0.4	49	10	20	12
S	1300N 3900E	2	48	0.5	50	18	10	20
S	1300N 3950E	2	102	0.6	46	14	10	8
S	1300N 4000E	1	50	0.7	34	10	20	8
S	1300N 4050E	1	62	16.2	45	24	300	44
S	1300N 4100E	1	98	1.8	38	17	40	28
S	1300N 4150E	1	39	0.8	50	14	20	12
S	1300N 4200E	2	87	0.4	42	22	10	8
S	1500N 3400E	2	56	0.6	41	12	280	16
S	1500N 3450E	4	46	0.4	35	10	10	10
S	1500N 3500E	5	44	0.3	36	10	20	8
S	1500N 3550E	3	38	0.2	34	8	40	8
S	1500N 3600E	2	26	0.2	30	10	20	12
S	1500N 3650E	1	37	0.2	24	6	10	8
S	1500N 3700E	1	64	0.6	39	10	30	6
S	1500N 3750E	1	60	2.0	38	16	30	8
S	1500N 3800E	2	46	0.8	48	9	10	8
S	1500N 3850E	2	34	1.6	49	16	10	16
S	1500N 3900E	1	48	0.2	42	9	20	6
S	1500N 3950E	2	43	0.3	54	7	10	8

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## CERTIFICATE OF ANALYSIS

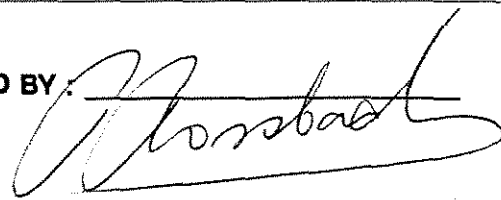
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)298-6910 Fax:298-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 7

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	1500N 4000E	1	110	0.2	30	32	10	12
S	1500N 4050E	2	52	0.2	39	26	5	20
S	1500N 4100E	1	24	0.2	34	6	5	10
S	1500N 4150E	2	17	0.3	48	10	5	12
S	1500N 4200E	2	53	0.2	54	17	40	18
S	1600N 4050E	1	48	0.2	46	14	20	8
S	1600N 4100E	1	27	0.2	58	8	5	6
S	1600N 4150E	3	23	0.6	42	12	10	8
S	1600N 4200E	4	23	0.1	39	8	5	8
S	1600N 4250E	2	26	0.1	48	9	5	6
S	1600N 4300E	2	28	0.2	44	9	10	10
S	1700N 3550E	4	114	0.1	36	5	5	8
S	1700N 3600E	6	52	0.1	54	7	5	8
S	1700N 3650E	4	74	0.1	45	11	10	4
S	1700N 3700E	4	150	0.2	42	7	5	8
S	1700N 3750E	3	124	0.2	36	5	10	8
S	1700N 3800E	3	194	0.2	52	6	5	12
S	1700N 3850E	3	129	0.2	38	6	10	8
S	1700N 3900E	6	128	0.3	34	12	5	12
S	1700N 3950E	12	58	0.4	46	8	5	8
S	1700N 4000E	6	26	0.8	48	6	5	10
S	1700N 4050E	3	56	3.2	44	36	30	48
S	1700N 4100E	4	70	1.2	46	16	40	20
S	1700N 4150E	3	62	1.0	50	16	10	12
S	1700N 4200E	3	40	0.8	48	14	5	12
S	1700N 4250E	5	122	0.4	50	16	5	10
S	1700N 4300E	2	26	0.4	42	10	5	8
S	1900N 3550E	5	80	0.2	38	6	5	8
S	1900N 3600E	18	82	0.2	39	6	5	8
S	1900N 3650E	28	81	0.2	41	4	5	8
S	1900N 3700E	5	42	0.3	49	5	5	10
S	1900N 3750E	4	26	0.3	45	4	5	6
S	1900N 3800E	6	38	0.4	43	4	5	8
S	1900N 3850E	10	40	0.4	36	5	5	6
S	1900N 3900E	30	46	0.1	34	36	60	40
S	1900N 3950E	42	46	0.2	38	19	30	32
S	1900N 4050E	14	156	0.2	36	19	60	20
S	1900N 4100E	6	80	0.2	36	7	30	10
S	1900N 4150E	2	64	0.3	62	6	20	8
S	1900N 4200E	2	109	0.4	44	17	60	16

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# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3

Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 8

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	1900N 4250E	2	19	0.6	36	3	10	10
S	1900N 4300E	1	34	0.6	49	14	20	14
S	2100N 2900E	4	38	1.2	36	7	5	10
S	2100N 2950E	6	29	0.4	42	5	5	10
S	2100N 3000E	6	36	0.6	38	5	20	8
S	2100N 3050E	14	34	0.4	46	12	5	8
S	2100N 3100E	10	92	0.4	32	26	10	36
S	2100N 3150E	12	46	0.6	36	12	5	16
S	2100N 3200E	10	39	0.6	38	14	5	16
S	2100N 3250E	6	30	0.4	40	5	10	8
S	2100N 3300E	10	30	0.3	44	6	10	8
S	2100N 3350E	8	66	0.2	26	4	5	12
S	2100N 3400E	6	28	0.4	40	5	10	8
S	2100N 3450E	8	50	0.4	41	7	10	10
S	2100N 3500E	7	36	0.3	41	8	5	12
S	2100N 3550E	2	19	0.4	40	7	5	12
S	2100N 3600E	3	18	0.4	42	36	5	8
S	2100N 3650E	10	22	0.3	48	8	5	16
S	2100N 3700E	3	43	0.8	60	28	20	10
S	2100N 3750E	2	34	0.6	34	8	5	12
S	2100N 3800E	1	20	0.6	24	6	5	16
S	2100N 3850E	3	18	0.4	36	10	10	16
S	2100N 3900E	4	22	0.3	48	6	40	16
S	2100N 3950E	4	28	0.2	48	8	5	14
S	2100N 4000E	2	27	0.4	45	12	5	10
S	2100N 4050E	2	19	0.3	36	4	5	8
S	2100N 4100E	3	20	0.2	32	4	5	6
S	2100N 4150E	4	36	0.2	44	8	5	8
S	2100N 4200E	2	33	0.4	32	10	60	8
S	2100N 4250E	3	9	0.6	34	2	5	8
S	2100N 4300E	2	18	0.4	30	3	5	6
S	2300N 3000E	3	72	0.4	18	10	5	8
S	2300N 3050E	14	48	0.5	49	9	5	10
S	2300N 3100E	20	56	0.2	32	10	20	8
S	2300N 3150E	18	22	0.2	40	9	5	10
S	2300N 3200E	32	29	0.1	28	20	5	12
S	2300N 3250E	26	39	0.2	38	32	5	8
S	2300N 3300E	10	28	0.4	46	16	5	6
S	2300N 3350E	8	32	0.2	52	15	5	8
S	2300N 3400E	6	27	0.2	46	10	5	8

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# ROSSBACHER LABORATORY LTD.

## CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

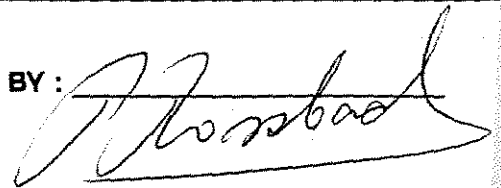
**Client:** AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3

**Certificate:** 93173  
**Invoice:** 40231  
**Date Entered:** 93-09-22  
**File Name:** AUR93173  
**Page No.:** 9

**Project:** YUKON  
**Type of Analysis:** Geochemical

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	2300N 3450E	3	19	0.3	38	12	5	4
S	2300N 3500E	3	20	0.3	42	5	5	8
S	2300N 3550E	2	22	0.2	40	5	5	8
S	2300N 3600E	5	34	0.4	46	18	5	6
S	2300N 3650E	6	29	0.4	54	10	5	8
S	2300N 3700E	5	38	0.4	10	19	30	16
S	2300N 3750E	2	18	0.3	30	4	5	12
S	2300N 3800E	3	7	0.2	44	7	30	24
S	2300N 3850E	2	14	0.2	28	2	5	10
S	2300N 3900E	2	29	0.2	40	2	5	10
S	2300N 3950E	3	22	0.4	61	10	5	12
S	2300N 4000E	4	27	0.2	46	7	20	16
S	2300N 4050E	4	26	0.2	43	13	5	14
S	2300N 4100E	2	20	0.2	58	5	5	8
S	2300N 4150E	4	28	0.3	47	5	5	8
S	2300N 4200E	3	34	0.4	45	7	5	8
S	2300N 4250E	4	20	0.2	43	6	5	12
S	2300N 4300E	3	22	0.2	41	5	5	10
S	2400N 3050E	3	26	0.2	49	10	5	12
S	2400N 3450E	4	36	0.3	54	10	5	8
S	2400N 3500E	6	49	0.4	50	6	5	8
S	2400N 3550E	4	32	0.3	45	16	5	12
S	2400N 3600E	2	26	0.2	53	10	5	6
S	2400N 3700E	3	20	0.2	28	2	5	8
S	2400N 3750E	5	19	0.3	50	7	10	8
S	2400N 3800E	2	14	0.4	35	5	5	8
S	2400N 3850E	2	18	0.3	44	4	5	6
S	2400N 3900E	2	14	0.2	48	6	5	8
S	2400N 3950E	1	18	0.2	49	8	5	8
S	2400N 4000E	2	28	0.3	44	6	20	8
S	2400N 4050E	2	22	0.2	48	10	5	16
S	2400N 4100E	1	19	0.2	44	9	5	12
S	2400N 4150E	2	22	0.2	46	9	5	8
S	2400N 4200E	2	19	0.2	44	6	5	8
S	2500N 3000E	30	116	0.3	34	9	20	12
S	2500N 3050E	12	36	0.4	30	4	5	12
S	2500N 3100E	45	75	0.2	36	14	5	16
S	2500N 3150E	12	20	0.3	24	4	5	8
S	2500N 3200E	10	22	0.3	42	12	5	16
S	2500N 3250E	2	26	0.2	42	10	5	12

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## CERTIFICATE OF ANALYSIS

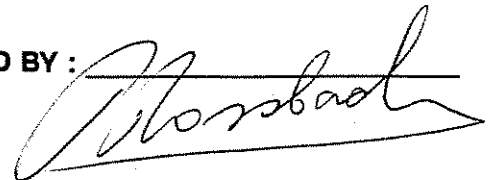
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 10

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	2500N 3300E	1	15	0.4	42	8	30	28
S	2500N 3350E	8	48	0.2	44	20	5	20
S	2500N 3400E	2	22	0.2	32	8	20	20
S	2500N 3450E	2	26	0.2	48	6	20	20
S	2500N 3500E	3	38	0.3	50	10	5	22
S	2500N 3550E	2	36	0.3	39	8	5	16
S	2500N 3600E	3	36	0.4	49	12	5	12
S	2500N 3650E	2	24	0.2	44	8	5	16
S	2500N 3700E	1	24	0.2	36	6	5	8
S	2500N 3750E	2	30	0.3	46	4	5	8
S	2500N 3800E	2	33	0.2	62	8	5	16
S	2500N 3850E	2	24	0.2	34	4	5	16
S	2500N 3900E	3	36	0.3	51	8	5	18
S	2500N 3950E	1	34	0.4	60	16	5	24
S	2600N 3050E	18	65	0.4	38	13	5	24
S	2600N 3100E	12	52	0.3	44	22	5	28
S	2600N 3150E	10	53	0.4	48	18	5	16
S	2600N 3200E	6	45	0.5	46	15	5	24
S	2600N 3250E	6	30	0.5	48	9	5	24
S	2600N 3300E	8	50	0.2	42	14	5	22
S	2600N 3350E	2	21	0.2	40	8	5	14
S	2600N 3400E	6	42	0.4	44	9	5	16
S	2600N 3450E	2	40	0.2	38	5	5	24
S	2600N 3500E	3	30	0.4	42	6	5	20
S	2600N 3550E	8	59	0.3	48	8	5	24
S	2600N 3600E	4	44	0.4	42	6	5	20
S	2600N 3650E	4	48	0.2	60	9	5	8
S	2600N 3700E	3	54	0.2	44	9	5	28
S	2600N 3750E	2	26	0.2	46	5	5	16
S	2600N 3800E	6	42	0.2	52	10	5	16
S	3900N 000E	8	19	0.4	180	78	20	40
S	3900N 050E	4	35	2.0	380	260	40	36
S	3900N 100E	4	22	1.4	276	114	20	36
S	3900N 150E	2	34	2.8	415	254	30	28
S	3900N 200E	3	40	3.8	344	216	60	26
S	3900N 250E	3	30	2.2	392	130	50	32
S	3900N 300E	1	38	3.8	382	208	110	36
S	3900N 350E	1	72	2.8	880	56	130	32
S	3900N 400E	25	74	4.0	670	68	90	60
S	3900N 050W	2	18	1.0	174	50	30	20

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To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3

Project: YUKON  
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File Name: AUR93173  
Page No.: 11

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	3900N 100W	3	20	1.0	204	74	140	24
S	3900N 150W	1	24	1.0	108	62	160	24
S	3900N 300W	1	14	0.8	133	58	20	20
S	3900N 350W	1	22	0.6	172	22	10	16
S	3900N 400W	2	17	1.8	190	36	40	16
S	3900N 450W	1	18	1.0	60	18	10	12
S	3900N 500W	3	16	0.6	65	16	10	8
S	3900N 550W	3	32	1.4	300	48	20	28
S	3900N 600W	2	20	0.6	64	13	10	16
S	3900N 650W	2	18	0.8	76	26	5	16
S	3900N 700W	2	22	0.8	69	16	5	12
S	3900N 750W	1	18	1.2	100	140	60	68
S	3900N 800W	1	16	0.6	46	14	20	12
S	3900N 850W	2	12	14.0	102	126	110	196
S	4100N 200E	4	24	2.2	474	54	230	56
S	4100N 250E	4	22	2.4	700	70	40	40
S	4100N 300E	5	26	3.0	430	210	100	44
S	4100N 350E	3	36	3.6	550	52	260	20
S	4100N 400E	3	16	1.0	206	32	140	24
S	4300N 000E	2	44	3.0	264	46	5	12
S	4300N 050E	3	36	2.6	230	56	30	28
S	4300N 100E	2	32	4.4	158	54	100	48
S	4300N 150E	2	78	6.8	650	74	220	120
S	4300N 200E	4	36	2.6	174	48	130	72
S	4300N 250E	3	30	1.2	172	18	20	20
S	4300N 300E	4	26	1.4	222	38	90	16
S	4300N 350E	6	108	1.2	450	52	140	52
S	4300N 400E	4	44	1.4	264	76	80	36
S	4300N 450E	4	30	1.6	250	54	80	36
S	4300N 050W	3	38	4.2	223	72	300	64
S	4600N 000E	1	26	1.2	130	60	60	12
S	4600N 050E	2	26	0.8	129	18	40	16
S	4600N 050W	1	48	3.6	154	90	160	124
S	4700N 100W	2	19	1.0	172	54	30	24
S	4700N 150W	2	38	2.0	286	98	70	32
S	4700N 200W	2	32	2.4	300	72	120	38
S	4700N 250W	2	58	2.8	484	156	540	144
S	4700N 300W	1	22	0.6	170	46	30	36
S	4700N 350W	2	30	1.4	434	82	90	32
S	4700N 500W	1	16	0.6	178	26	70	16

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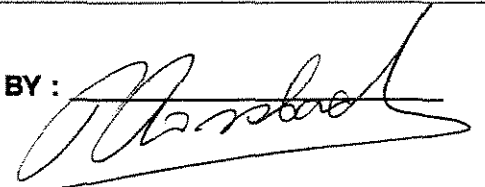
2225 Springer Ave., Burnaby,  
British Columbia, Can. V5B 3N1  
Ph:(604)299-6910 Fax:299-6252

To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 12

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	4700N 550W	1	44	2.2	269	50	140	88
S	4700N 600W	2	36	2.6	550	186	70	84
S	4700N 650W	1	30	2.8	740	268	110	300
S	4700N 700W	1	32	2.2	540	240	40	172
S	4700N 750W	2	26	1.0	250	56	20	52
S	4700N 800W	2	28	1.2	212	54	20	36
S	4700N 850W	1	26	1.2	288	50	90	36
S	4700N 900W	2	36	2.0	560	138	90	184
S	4700N 950W	3	30	0.8	658	76	20	28
S	4700N 1000W	2	32	2.6	378	180	20	44
S	4700N 1050W	2	18	0.6	264	96	20	36
S	4700N 1100W	2	16	0.6	278	68	30	32
S	4700N 1150W	1	32	2.2	410	256	30	52
S	4700N 1200W	2	23	1.0	524	126	40	118
S	4700N 1250W	1	18	0.2	110	20	10	24
S	4700N 1300W	2	20	0.4	466	70	20	64
S	4700N 1350W	2	22	0.4	268	24	10	20
S	4700N 1400W	1	56	0.6	132	30	20	16
S	4700N 1450W	2	20	0.2	550	34	80	28
S	4700N 1500W	1	36	0.3	200	30	20	16
S	4800N 250W	1	22	0.6	222	46	30	20
S	4800N 300W	1	24	0.8	188	30	60	12
S	4800N 350W	2	18	0.6	72	28	10	20
S	4800N 400W	2	34	1.0	224	40	30	28
S	4800N 450W	1	20	0.4	168	24	30	16
S	4800N 500W	2	34	1.4	200	48	150	60
S	4800N 550W	2	60	1.4	439	66	190	96
S	4800N 600W	3	40	2.6	588	174	100	64
S	4800N 650W	2	40	3.2	420	142	90	84
S	4800N 700W	3	26	2.4	424	176	60	76
S	4800N 750W	2	24	1.2	340	48	60	40
S	4800N 800W	1	20	1.0	380	36	40	38
S	4800N 850W	2	36	3.0	800	220	90	72
S	4800N 900W	1	18	0.6	480	42	120	64
S	4800N 950W	4	20	1.4	620	42	30	38
S	4800N 1000W	3	18	0.6	175	34	170	36
S	4800N 1050W	2	20	1.6	310	74	20	40
S	4800N 1100W	2	18	1.8	476	100	140	44
S	4800N 1150W	2	16	1.0	132	38	20	28
S	4800N 1200W	2	18	0.6	100	24	10	24

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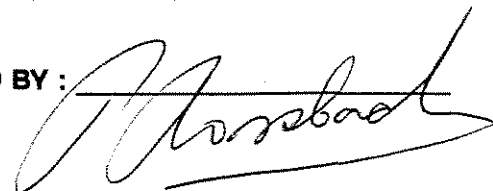
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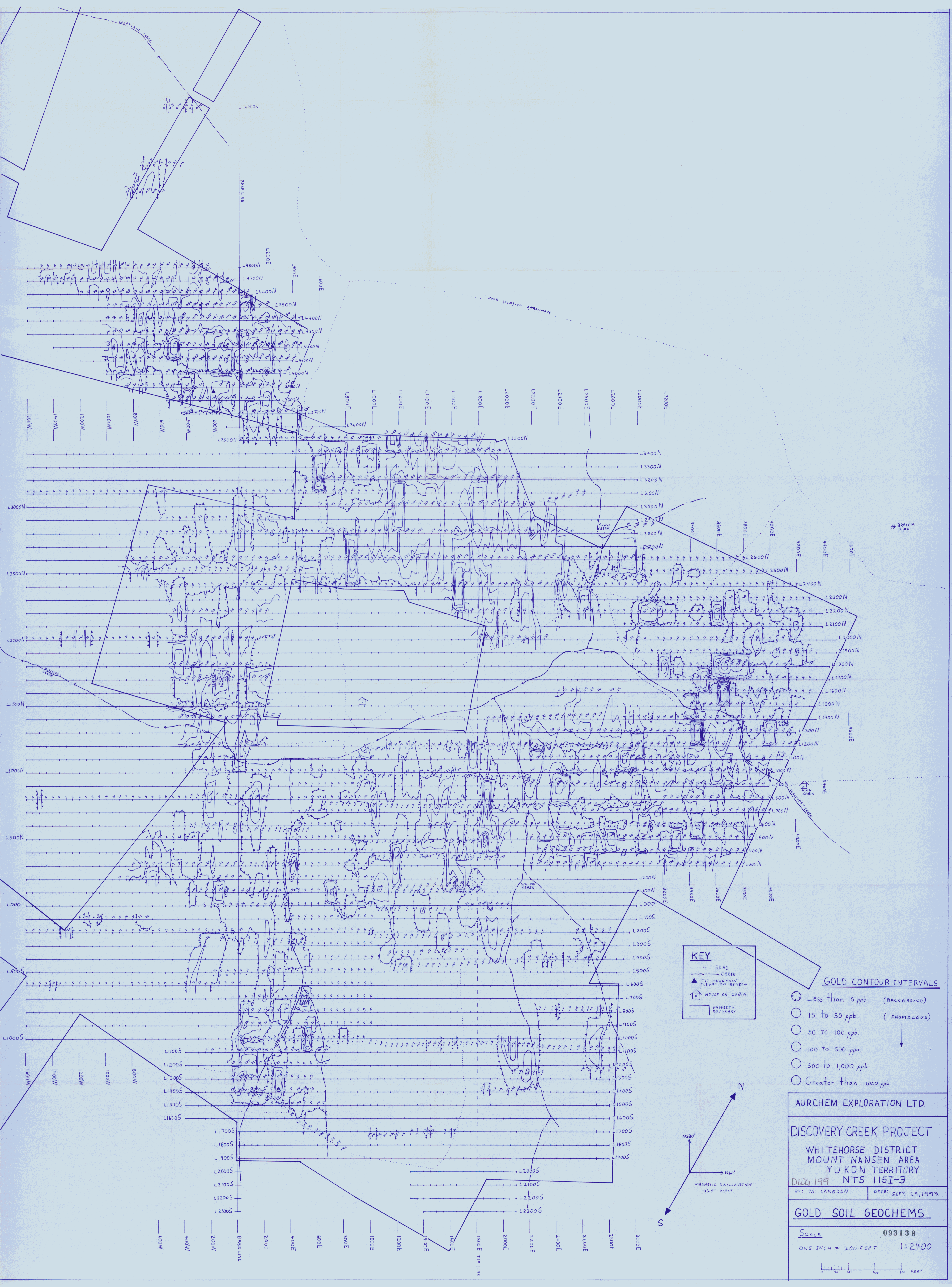
To : AURCHEM EXPLORATION LTD.  
# 16 266 RUTHERFORD RD. S.  
BRAMPTON, ONTARIO, L6W 3X3  
Project: YUKON  
Type of Analysis: Geochemical

Certificate: 93173  
Invoice: 40231  
Date Entered: 93-09-22  
File Name: AUR93173  
Page No.: 13

PRE FIX	SAMPLE NAME	PPM Mo	PPM Cu	PPM Ag	PPM Zn	PPM Pb	PPB Au	PPB As
S	4800N 1250W	2	24	0.6	190	28	20	24
S	4800N 1300W	3	22	0.4	148	22	10	16
S	4800N 1350W	3	18	0.4	96	12	5	12
S	4800N 1400W	2	12	0.4	88	10	5	10
S	4800N 1450W	3	18	0.5	110	10	5	10
S	4800N 1500W	2	18	0.3	114	16	5	20

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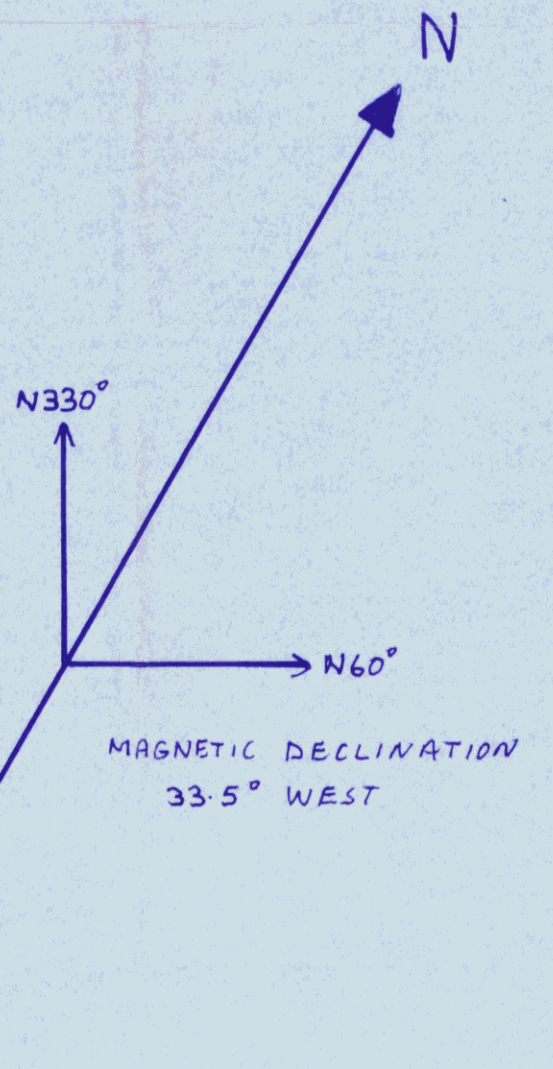




**KEY**

- ROAD
- CREEK
- TIT MOUNTAIN ELEVATION BEARON
- HOUSE OR CABIN
- HARPELTY BOUNDARY

- GOLD CONTOUR INTERVALS**
- Less than 15 ppb. (BACKGROUND)
  - 15 to 50 ppb. (ANOMALOUS)
  - 50 to 100 ppb.
  - 100 to 500 ppb.
  - 500 to 1,000 ppb.
  - Greater than 1,000 ppb.



**AURCHEM EXPLORATION LTD.**

**DISCOVERY CREEK PROJECT**

WHITEHORSE DISTRICT  
MOUNT NANSEN AREA  
YUKON TERRITORY

DWG 199 NTS 115I-3

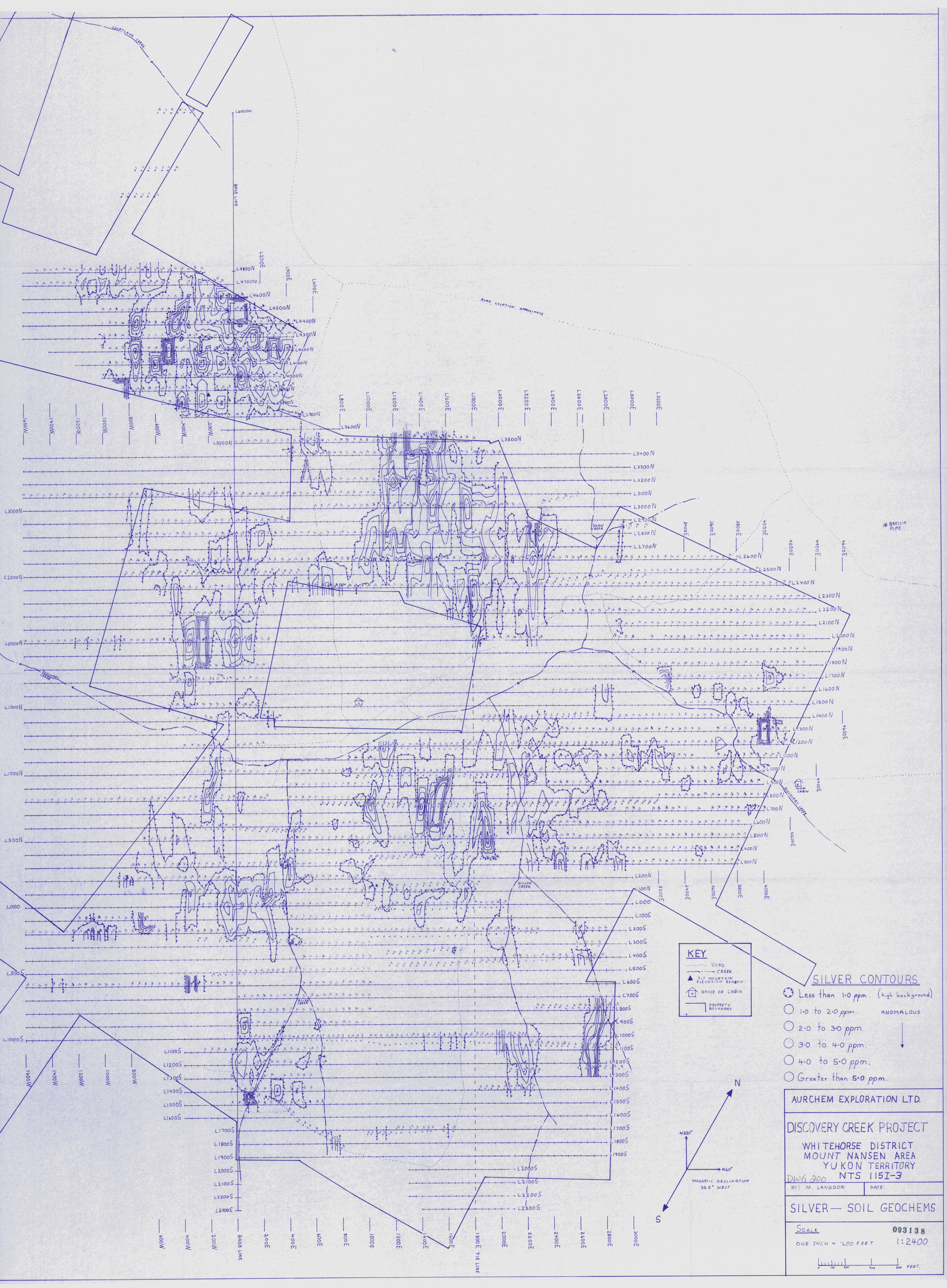
BY: M. LANGDON      DATE: SEPT. 29, 1993.

**GOLD SOIL GEOCHEMS**

SCALE      093138

ONE INCH = 200 FEET      1:2400

0 100 200 300 400 500 FEET.

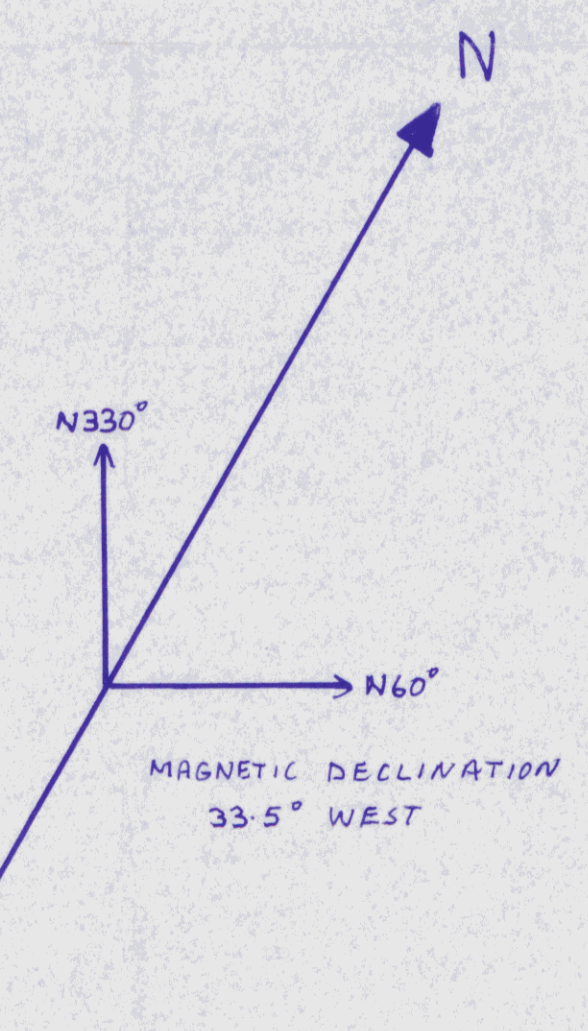


**KEY**

- ROAD
- CREEK
- TIP MOUNTAIN ELEVATION BENCHMARK
- HOUSE OR CABIN
- PROPERTY BOUNDARY

**SILVER CONTOURS**

- Less than 1.0 ppm. (high background)
- 1.0 to 2.0 ppm. ANOMALOUS
- 2.0 to 3.0 ppm.
- 3.0 to 4.0 ppm.
- 4.0 to 5.0 ppm.
- Greater than 5.0 ppm.



AURCHEM EXPLORATION LTD.

DISCOVERY CREEK PROJECT

WHITEHORSE DISTRICT  
MOUNT NANSEN AREA  
YUKON TERRITORY  
NTS 1151-3

DWG 200

BY: M. LANGDON      DATE:

SILVER — SOIL GEOCHEMS

SCALE      093138

ONE INCH = 200 FEET      1:2400

0 100 200 300 400 500 600 FEET.

needs  
approval

6091

MINFILE: 1151 093  
PAGE NO: 1 of 3  
UPDATED: 07/26/94

**YUKON MINFILE  
STANDARD REPORT  
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND  
WHITEHORSE**

**NAME(S):** Goulter (Discovery Creek)      **NTS MAP SHEET:** 115 I 3  
**MINFILE #:** 1151 093      **LATITUDE:** 62°04'41"N  
**MAJOR COMMODITIES:** Au,Ag      **LONGITUDE:** 137°11'30"W  
**MINOR COMMODITIES:** Pb,Cu,Zn      **DEPOSIT TYPE:** Porphyry, vein  
**TECTONIC ELEMENT:** Northern Stikine Terrane      **STATUS:** Drilled Prospect

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**CLAIMS (PREVIOUS AND CURRENT)**

SILVER QUEEN, NEWBAUER, MACK, PTARMIGAN, GOLD STANDARD, YU, WEDGE, JBF, JON-WEDGE, RAS, MSL, LGCS, BIT, JLZ, COURTLAND, IDA MAY, MYRTLE, RICCO, HAZEL ANNE

**WORK HISTORY**

Staked as Silver Queen cl (12632) in Jul/17 by C.P. Mack, who explored with 18.3 m of drifting in 1918-23. The nearby Newbauer cl (12982) was staked in Mar/20 by M. Neubauer, who drove a 3 m long drift later in the year. Mack restaked the showing in Oct/29 as Mack, etc cl (15476), while Orloff King added the adjoining Ptarmigan cl (15729) in Oct/32 and Gold Standard cl (15789) in Jul/34 and filed 17 m of tunnelling on the Gold Standard in 1941.

The Mack claims expired in Oct/37 and were restaked as Mack cl (39134) in May/39 by C.P. Mack who added six adjoining claims between Jun/40 and August/46. This group was optioned briefly in Mar/47 by G.A. Reynolds and C.L. Coleman, was taken to lease in Nov/56 and was optioned in May/72 by Area EL (Cyprus). Silver Standard ML staked YU cl (73506) 1.6 km northeast in Jul/58 and explored with mapping and EM surveys in 1958-59 and later with geochem sampling and hand trenching.

Restaked by G. Dickson as Wedge etc. cl (YA82167) in Jun/84. Prochem L optioned the leased claims and some of the Wedge claims and explored with soil geochemistry, EM-16 surveys and bulldozer trenching in 1985, grid geochemistry and bulldozer trenching in 1986, and ? holes (822 m) in 1987, and 11 holes (1219 m) in 1988. The 1987 and 1988 work was funded by a subsidiary, Aurchem EL, which performed additional trenching in 1989.

In 1990, Aurchem built roads, excavated 3 trenches on the Willow Creek zone and 12 trenches on the Eliza Creek zone and conducted magnetometer and IP surveys. Two hundred soil samples were collected from the Eliza Creek zone and 7 drums of vein material were collected for metallurgical testing.

In 1991, Aurchem expanded the grid and did property wide geology, IP/Resistivity and VLF-EM surveys and target specific magnetometer surveys. All previous exploration, including soil sample locations, was compiled on the new survey grid. Three trenches were completed and 300 soil samples were collected.

Aurchem added JBF 1-7 fractional claims (YB36259) and Jon-Wedge 1-6 claims (YB35895) in Aug/92 and explored with 3384.8 m of reverse circulation drilling in 32 holes in July and August, 1992. In July/93, several of the Wedge cl were transferred to J. Dickson. In 1993, Aurchem conducted a program of IP/Resistivity and magnetics, geological mapping, grid extension and soil geochemical surveys on the Ras, Wedge, Jon-Wedge, JLZ, and JBF claims.

**GEOLOGY**

A porphyry copper-molybdenum complex is found in the northeast section of the property, with argillic and propylitic alteration haloes covering the remainder. The porphyry complex occurs at the intersection between a major northwest structure and an east-west fault. Copper and molybdenum ± gold and silver occur in a porphyry stock and phyllic-altered granodiorite. Surface leaching and oxidation is variable but can reach considerable depths.

## GEOLOGY (CONTINUED)

A steeply dipping, northwest-striking epithermal vein system which formed peripheral to the porphyry migrated inward during cooling and collapse, creating a complex system of overlapping mineralization including:

- porphyry Cu-Mo-Au-Ag
- northwest striking mesothermal quartz-pyrite-gold veins
- northwest striking epithermal quartz-gold-silver-lead-zinc-copper veins

Argillic alteration zones associated with the porphyry have been shown to be the preferred sites for later veining and wide stockwork zones.

Quartz-feldspar porphyry dykes are closely associated with the epithermal veins, and are themselves mineralized in places. Dykes of dacite and rhyodacite porphyry appear to be associated with quartz-pyrite veins on the flank of the porphyry stock. Widespread silicification, quartz breccias and quartz-tourmaline breccias have been found within both the phyllic and argillic alteration haloes, associated with all the above types of mineralization.

A second set of epithermal veins striking northeast has caused minor offsets of the main northwest veins. In several areas along the major northwest structure, zones of multiple northeast veins up to 100 m in length occur between pairs of east-west faults. These areas provide prime locations for the podding of mineralized veins.

Based on extensive exploration since 1985, Aurchem has described five major mineralized zones on the property as follows:

- (a) PORPHYRY ZONE: Contains porphyry Cu-Mo-Au-Ag and hydrothermal quartz-pyrite-gold veins within the phyllic alteration zone of the porphyry complex.
- (b) TRANSITIONAL ZONE SOUTH: Contains porphyry Cu-Mo-Au-Ag and hydrothermal quartz-pyrite-gold veins within a zone of strong argillic alteration associated with the porphyry.
- (c) TRANSITIONAL ZONE NORTH: Contains epithermal Au-Ag-Pb-Zn-Cu veins and stockwork overprinted on earlier porphyry mineralization. Porphyry-related quartz and quartz-tourmaline breccias are found within a general argillic alteration zone.
- (d) ELIZA CREEK ZONE NORTH: Northwest trending epithermal veins and stockwork zones cut a zone of strong propylitic to argillic alteration.
- (e) ELIZA CREEK ZONE SOUTH: Two main epithermal veins flank a porphyry dyke within weakly propylitic host rocks over a 914 m strike length.

Grades from within the five zones have been low to moderate with higher grades over narrower widths. The highest grades recorded on the property to date are 120.0 g/t Au, 3428 g/t Ag, 62.0% Pb, 14.0% Zn, 2.0% Cu and 0.05% Mo.

## REFERENCES

- AURCHEM EXPLORATION LTD, Sep/87. Assessment Report #091958 by M. Langdon.
- AURCHEM EXPLORATION LTD, Dec/89. Assessment Report #092770 by M. Langdon.
- AURCHEM EXPLORATION LTD, Dec/90. Assessment Report #092943 by M. Langdon.
- AURCHEM EXPLORATION LTD, Nov/90. Assessment Report #092770 by M. Langdon.
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