093748

1997 ASSESSMENT REPORT ON THE HAYES PROPERTY

Whitehorse Mining District
(July 1 - August 26, 1997)

093748

Location: 1. 93km Northwest of Carmacks
2. NTS Sheet 115 I/05
3. Latitude 62°27' Longitude 137°53'

For: **TROYMIN RESOURCES LTD.**
200, 622 - 5th Avenue SW.
Calgary, Alberta
T2P 0M8

Claims: Hayes 1-112 (YB66122-YB66223)
Hayes 113-130 (YB97178-YB97195)
Hayes 131-172 (YB97090-YB97131)
Hayes 173-180 (YB97196-YB97203)
Hayes 181-226 (YB97132-YB97177)
Hayes 227-239 (YB97204-YB97216)

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December 16, 1997

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 44,025.00.

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

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INTRODUCTION

The purpose of this report is to satisfy the reporting portion of the assessment requirements under the Yukon Quartz Mining Act.

The area has been explored intermittently over the past thirty years for its porphyry copper and precious metal vein potential. Porphyry copper exploration was conducted in the early 1970's by various junior and major exploration companies. Vein exploration occurred in the early 1980's under the NAT Joint Venture. This work was carried out by Archer, Cathro & Associates Limited. The porphyry exploration, centered on Prospector Mountain, resulted in the delineation of six large geochemical anomalies hosted by both the monzo-syenite and their coeval volcanics. Vein exploration took place on the western flank of Prospector Mountain and westward from there to Apex Mountain. This exploration resulted in the conclusion that, although there is an abundance of vein structures on the property, individual veins tend to be narrow and erratically mineralized. This was certainly confirmed during the 1997 exploration program.

Metal ratios of samples collected during the brief 1997 program indicate an east to west metal zoning with mineral assemblages resembling copper gold prophyry at the eastern end to more distal lead-zinc-silver (gold) epithermal mineralization to the west. Historical data seems to support this zoning and may even hint at more distal gold-silver potential toward Apex Mountain.

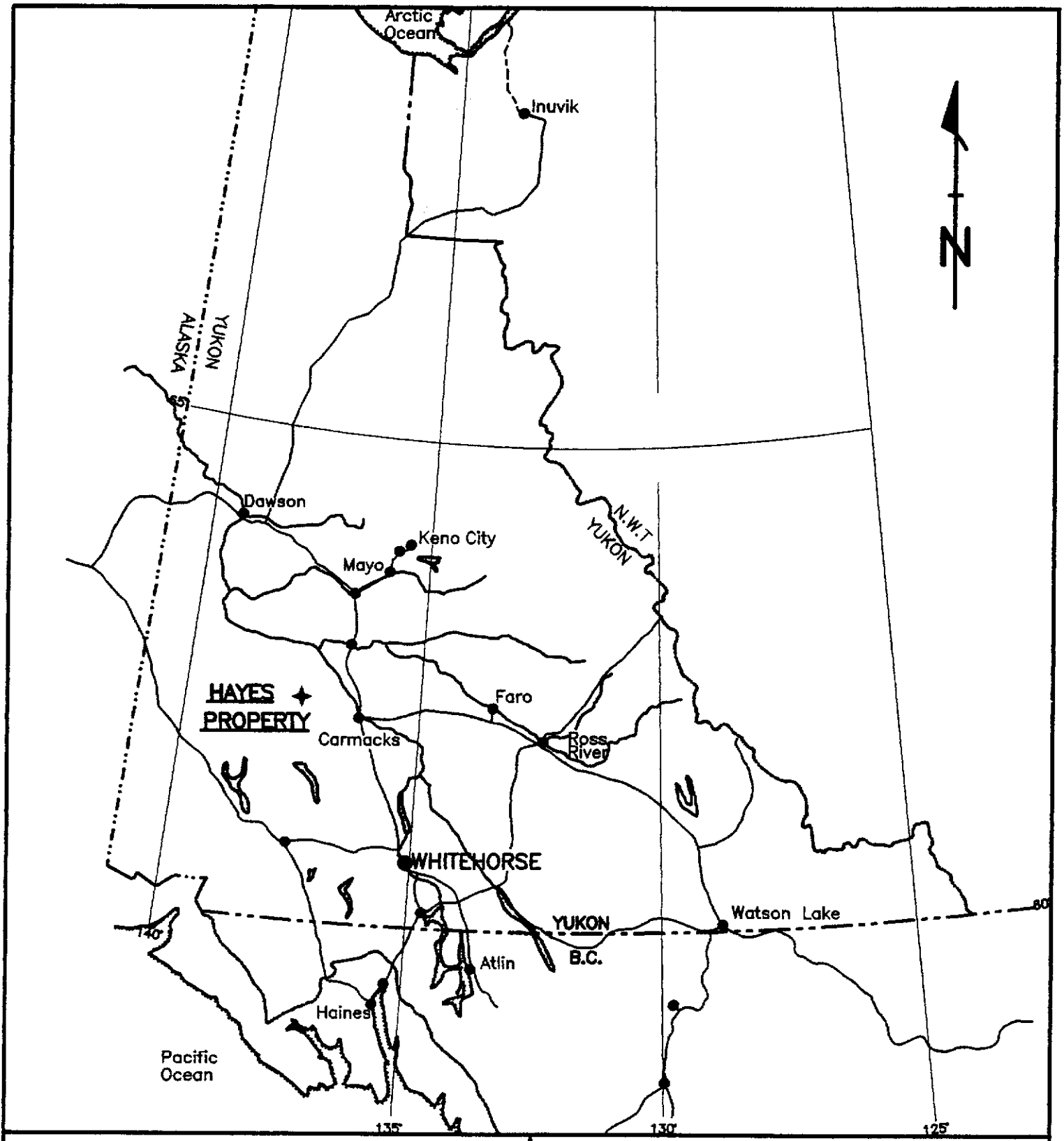
Extensive arsenic-silver-gold anomalies along the western border of the property were found to be caused by extensive tourmaline-quartz stringers and veins with elevated arsenic which occur over wide, weakly altered zones in both the monzo-syenite and the volcanic rocks.

Some potential for copper gold porphyry style mineralization was located along the eastern plutonic/volcanic contact. This area possesses the greatest potential for developing a sizable mineral resource.

LOCATION AND ACCESS

The Hayes Property is located in the Dawson Range on the headwaters of the northwest draining Hayes Creek, between Apex Mountain to the west and Prospector Mountain on the eastern boundary. The property is situated in the northwest corner of NTS 115 I/05. The geographic coordinates of a point approximately in the center of the property are 62° 27' North latitude and 137° 53' West longitude (Figure 1).

Access to the property is via the Casino Trail from Carmacks followed by a 'cat' trail built in the early 1980's and partially repaired during the 1997 season. Access to the property during the 1997 season was by Carmacks stationed Bell 206B Jet Ranger helicopter. The camp was mobilized from the airstrip at Revenue Creek. Uncharacteristically heavy and consistent rains limited ground access beyond the airstrip



200 100 0 200

kilometres

TROYMIN RESOURCES LTD.

HAYES CLAIMS

WHITEHORSE MINING DISTRICT, YUKON TERRITORY

PROPERTY LOCATION MAP

Aurum Geological Consultants Inc.			date: SEPTEMBER, 1997
NTS: 116 1/5	drawn: JC	scale: 1:6,000,000	figure: 1

PHYSIOGRAPHY, CLIMATE, AND VEGETATION

Elevations on the property range from 1,000 meters to just under 2,000 meters. The property straddles ridges trending northwest and northeast from a hinge point in the south-central portion of the property.

An interior continental climate with moderate to low precipitation (30 cm annually), hot, dry summers and cold winters typifies the area The 1997 season proved to be exceptional in that the level of summer precipitation exceeded that of 'normal' resulting in washouts, flooding and landslides. Permafrost exists on higher north and east facing slopes but is discontinuous over the rest of the property.

Most of the property is above treeline and is covered by alpine vegetation including dwarf birch and willow. Lower valleys are filled with tall alder, willow and occasional conifers. Outcrop exposure is poor, being limited to steep terrain. However, felsenmeer and talus is abundant above 1,350 meters.

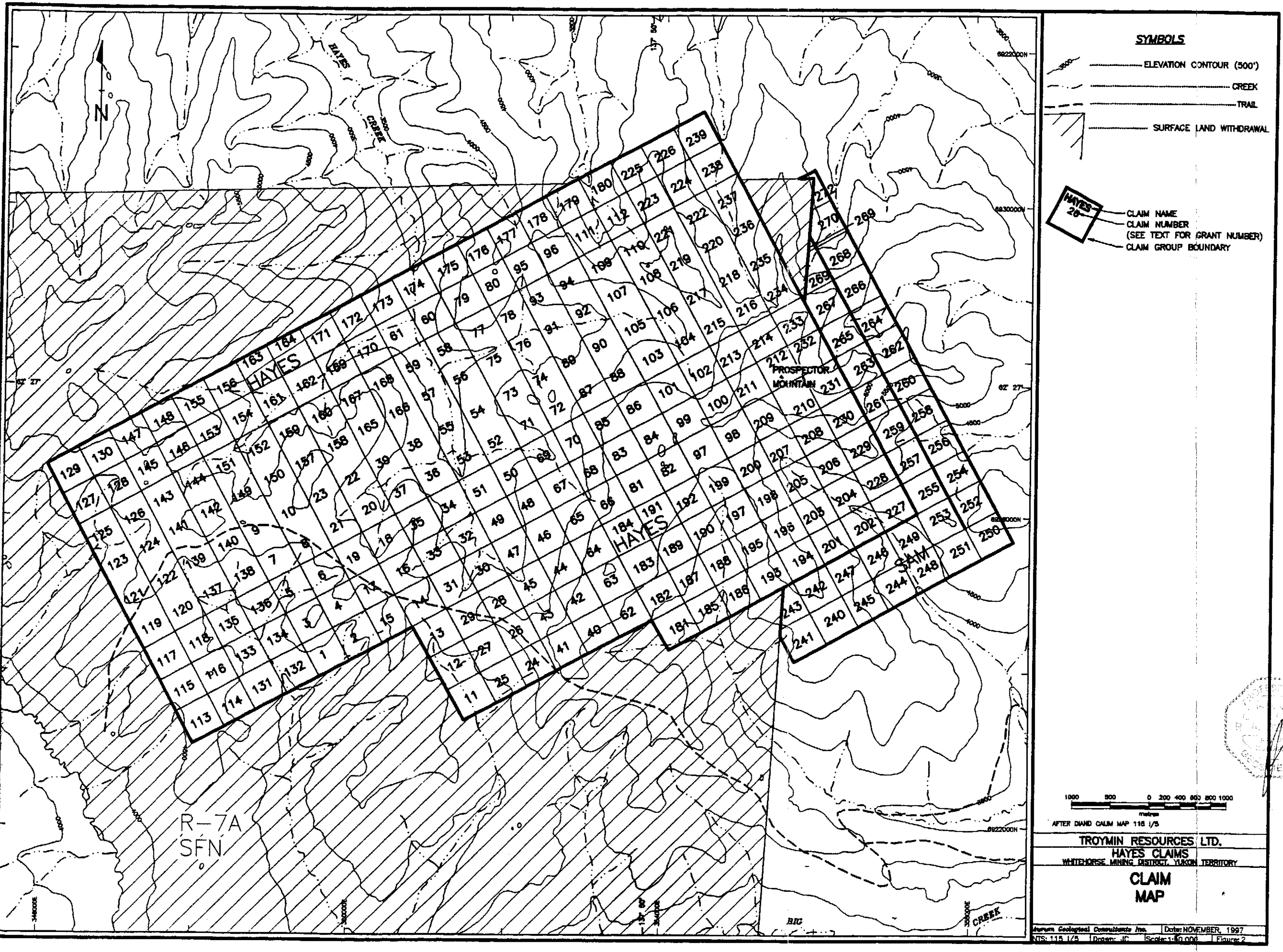
Although largely unglaciated, valley bottoms on the property are covered by a thick blanket of alluvium. The property did undergo some degree of alpine glaciation at higher elevations.

PROPERTY

The Hayes Property consists of 239 contiguous unsurveyed two post quartz claims (Figure 2), staked in accordance with the Yukon Quartz Mining Act. The claims are all within the Whitehorse Mining District and are shown on NTS 115 I Quartz and Placer claim map. The claims cover an area of approximately 4995 hectares. The Sam 240-272 Claims were staked subsequent to the completion of the 1997 work program and are due to expire on October 31, 1998.

Table 1 - Claim Data
(Expiry Dates Reflect Current Assessment Work)

Claim Name	Claim no.	Grant No.	Expiry Date
Hayes	1 -112	YB66122-YB66233	Jan 8, 2000
Hayes	131-172	YB97090-YB97131	Jan 8, 2000
Hayes	181-226	YB97132-YB97177	Jan 8, 2000
Hayes	113-130	YB97178-YB97195	Jan 8, 2000
Hayes	173-180	YB97196-YB97203	Jan 8, 2000
Hayes	227-239	YB97204-YB97216	Jan 8, 2000
Sam	240-272	YC08343-YC08375	Oct 31, 1998


SYMBOLS
ELEVATION CONTOUR (500')
CREEK
TRAIL
SURFACE LAND WITHDRAWAL
HAYES 28
CLAIM NAME
CLAIM NUMBER
(SEE TEXT FOR GRANT NUMBER)
CLAIM GROUP BOUNDARY
N
HAYES CREEK
HAYES
SAM
PROSPECTOR MOUNTAIN
R-7A
SFN
BIG CREEK
6922000N
6930000N
62° 27'
137° 50'
137° 00'
1000 500 0 200 400 600 800 1000
metres
AFTER DIAND CALM MAP 115 I/5
TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY
CLAIM
MAP
Date: NOVEMBER, 1997
NTS: 115 I/5
Drawn: JC
Figure 2

GEOLOGY

Regional Geology

The oldest rocks in the area are Paleozoic-Proterozoic metamorphic units previously assigned to the Yukon Metamorphic Complex and now considered to be part of the greatly expanded Yukon Tanana Terrane. Although not examined during the course of the 1997 exploration program, previous exploration and mapping have delineated and described these rocks in various places around the periphery of the property (Figure 3). They are generally described as being two distinctive metamorphic units. The lower unit (Unit 1) being composed predominantly of quartzites schists and gneisses while the upper unit (Unit 2) is described as being schists and gneisses of plutonic origin. Both units contain some skarns derived from calcareous protoliths.

These metamorphic rocks have been intruded and overlain by Cretaceous and younger plutonic rocks. The Early Cretaceous was marked by intrusion of the Dawson Range Batholith consisting of granodiorite, local granite plugs, and cogenetic Mt. Nansen Group andesites and rhyolites. Lithologies representing the plutonic-volcanic suite are localized along and south of the Big Creek Fault.

Regional structures generally trend northwest with some younger subsidiary northeast structures. Mineral deposits in the area are associated with Cretaceous porphyry stocks and volcanics in proximity to major regional structures such as Big Creek Fault, and secondary northwest and northeast trending faults (Carlson, 1987).

LEGEND FIGURE 3 - REGIONAL GEOLOGY

OLIGOCENE-MIOCENE
Omcv Carmacks Group andesite and basalt
Ocs Carmacks group conglomerate, sandstone, shale

EOCENE
E_{MN} Mount Nansen Group Volcanics

Lower TERTIARY
Tfp Feldspar Porphyry Dikes
Tva Acid Tuff
Tvb Basalt flows and dikes

Early TERTIARY
eTf Granite and syenite porphyry

CRETACEOUS
Ky Syenite, monzonite
Kg Granite
Kqm Quartz monzonite, granodiorite

MESOZOIC
Mqm Quartz monzonite
Mgd Granodiorite Quartz monzonite

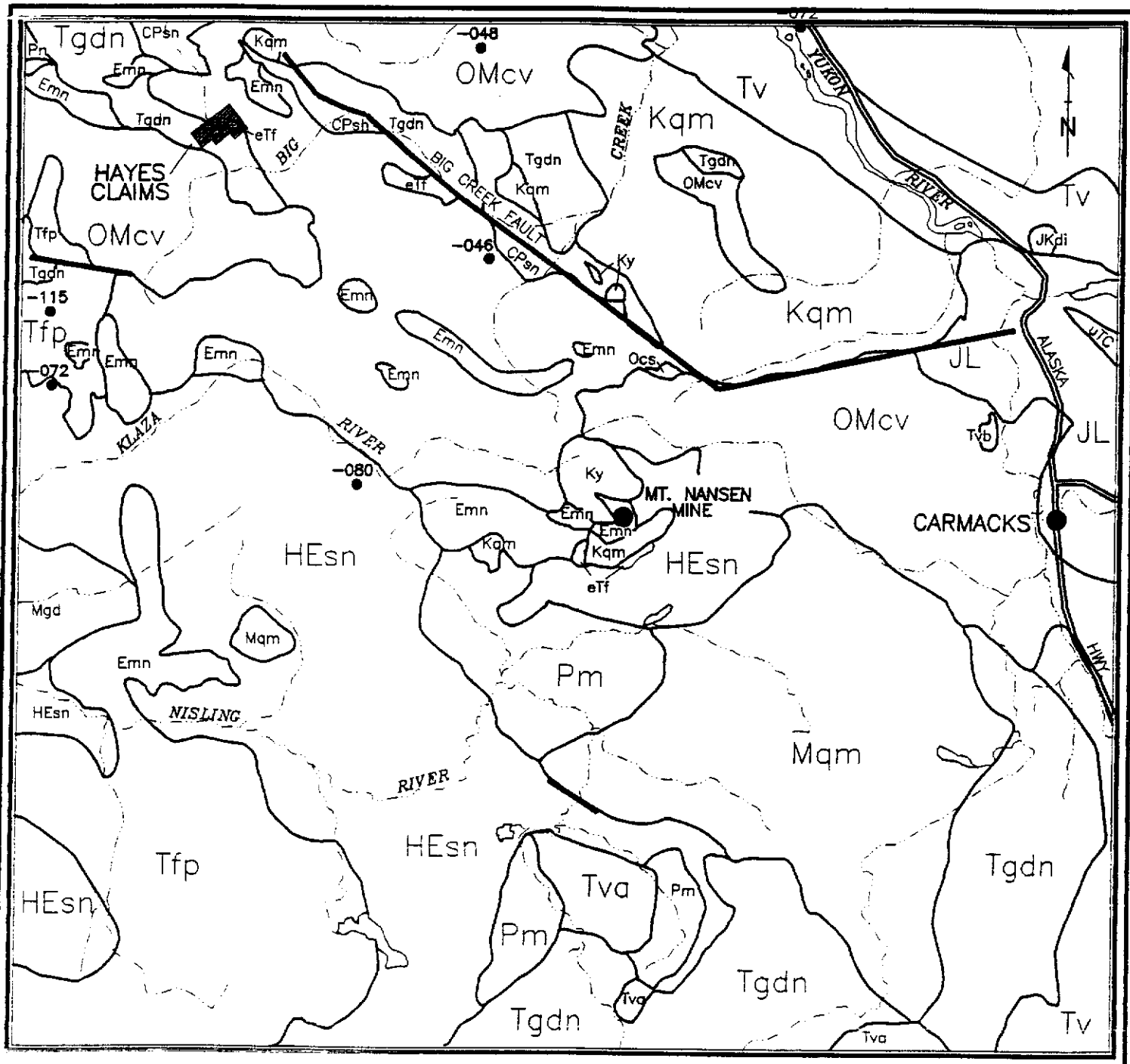
JURASSIC - CRETACEOUS
JL Laberge Group conglomerate
Jkdi Diorite and hornblende diorite

TRIASSIC
Tgdn foliated hornblende granodiorite
uTc Lewis River Group limestone
Tv Lewis River Group basalts

CARBONIFEROUS AND PERMIAN
CPsn Schist and Gneiss

PALEOZOIC
Pm Amphibolite schist and gneiss

CAMBRIAN-HADRYNIAN
HCsn Schist, gneiss, quartzite



LEGEND

- LAKE
- RIVER/CREEK
- HIGHWAY
- FAULT
- -080 PROPERTY

MINEFILE #	PROPERTY
-046	LIL (Au-VEIN)
-048	EDGAR
-072	PHEOBE
-115	TOAST
-080	RICO

10 5 0 10
KILOMETERES

SEE TEXT FOR LITHOLOGIES
Modified after Gabrielse, Templeman-Kluit, Blusson, Campbell, 1977

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HAYES CLAIMS

WHITEHORSE MINING DISTRICT, YUKON TERRITORY

REGIONAL GEOLOGY

Aurum Geological Consultants Inc.		date: NOVEMBER, 1997	
NTS: 115 I/5	drawn: JC	scale: 1:150000	figure: 3

Property Geology

Property geology is predominantly Yukon Tanana meta sedimentary and meta plutonic rocks overlain by Carmacks volcanics which have been intruded by coeval plutonic rocks of the Prospector Mountain Suite (Figure 4). It has been suggested that large dikes on the property acted as feeders to the overlying volcanics.

The plutonic rocks have been variously mapped as quartz monzonite, monzonite, quartz syenite and syenite. Recent work has indicated a predominance of the monzonitic lithology though syenites do appear as a boarder phase and possibly as limited plugs within the larger suite of quartz bearing monzonite. Work done during the 1997 season indicated that: a) intrusive rocks are structurally controlled along roughly north to south linears, and b) alteration and mineralization of the plutonic package is also controlled along these same linears.

Descriptions of rock units in the area have been done by various authors over the years and tends to be oriented more towards regional lithology rather than local. A program of mapping specific flows and intrusive phases and their alteration packages is strongly recommended. A Table of Formations is found in Table II on the following page.

Two linear trends predominate; 000° to 005° and 020° to045°. Surface expression of these structures tend to be linear depressions containing strongly altered and frequently mineralized dyke material. Veins in the area trend parallel or near parallel to the dykes and frequently cut them and wander from wall to wall. These structures are likely related to movement along the Big Creek Fault which lies immediately east of the property. The Big Creek Fault is considered to be syn-depositional with the Carmacks Group (Johnston, S. et al., 1993). Tourmaline-quartz vein float is frequently located along most structures.

In the western portion of the property, these structures are near vertical to steeply east dipping. They are usually less than a few meters in width with a few up to 10 or 15 meters wide. Most are an overlapping assemblage of wide, usually porphyritically altered dikes of varying lithology, cut by later and more narrow variously mineralized veins which, in turn, are cut by later still tourmaline-quartz veins. Each of these dyke/vein lithologies also occurs in isolation. The tourmaline veins are by far the most abundant. A 250 meter wide section of the north facing slope in the northwestern portion of the property (Goldielocks Ridge) contained at least one tourmaline-quartz vein per ten meter interval. Some areas contained as many as one vein per meter. Traced further north across the creek the tourmaline veins become very narrow (<1cm).

Table II Table of Formations

Carmacks Group 70 + 4 Ma

Unit 16 *Prospector Suite*

16a quartz-bearing monzonite
16af Fine grained variety
16b leucocratic quartz-rich quartz monzonite
16c porphyritic latite and quartz bearing latite dykes

Unit 15 *Dykes*

15a aphanitic andesite and basalt dykes
15b vfg to fine grained andesite to latite
15d granophyric diabase

Unit 14 *Upper Volcanic Section*

14b Basaltic flows

Unit 13a *Lower Volcanic Section*

13at Andesitic tuffs and breccias
13b Rhyodacite tuff

Dawson Range Batholith 105-90 Ma

Unit 3 *Klotassin Suite Granodiorite*

3a Hornblende-biotite granodiorite to diorite
3b Leucocratic granodiorite
3bd Strong cataclastic deformation

Mount Nansen Suite 105 Ma

Unit 9 *Late Dykes and Stocks (intermediate to felsic qfp)*

Unit 7 *Mount Nansen Group*

Unit 4 *Big Creek Suite: (Metaplutonic)* *184 Ma*

4a Hornblende monzonite, quartz-bearing monzonite, k-feldspar phenocrysts
4b Hornblende monzonite to diorite

Unit 2 Yukon Tanana Terrane Paleozoic - Proterozoic

Unit 2e Quartz feldspathic Gneiss/Schist Unit
Unit 2L Recrystallized Limestone
Unit 1 Metasedimentary Unit

Archer, Cathro & Associates (1981) Limited conducted extensive surveys of the veins on the property from 1980 to 1984 including a few well positioned diamond drill holes designed to test the down dip continuity of the veins. The strongest veins are intimately associated with quartz feldspar porphyry dykes. The veins are most evident cutting volcanic rocks on ridges where they form prominent linear features. Veins are quite variable in width, from a few millimeters to a few meters. Sulphide and other mineralization within the veins occurs very sporadically. Very few veins have been located outside of the andesitic volcanic rocks. Reasons for this preference are that the andesite (both tuffs and breccias) provide a good structural host and also that the intrusive rocks tend to weather into larger blocks making vein float much more difficult to locate. Soil geochemical surveys conducted by Archer, Cathro and others show that the structures continue through the intrusive rocks Descriptions of individual veins can be found in the Archer, Cathro reports from the area.

1997 EXPLORATION RESULTS

Introduction

More than 340 rock, soil and silt samples were collected from the Hayes property during the 1997 program. A system of differentiating between samplers and sample medium was devised. The five digit system identified the sampler first (1 through 3) followed by the medium (1 for silt 2 for soil and 3 for rock) followed finally by a three digit sample number. For example, the authors first rock sample is labeled 13001.

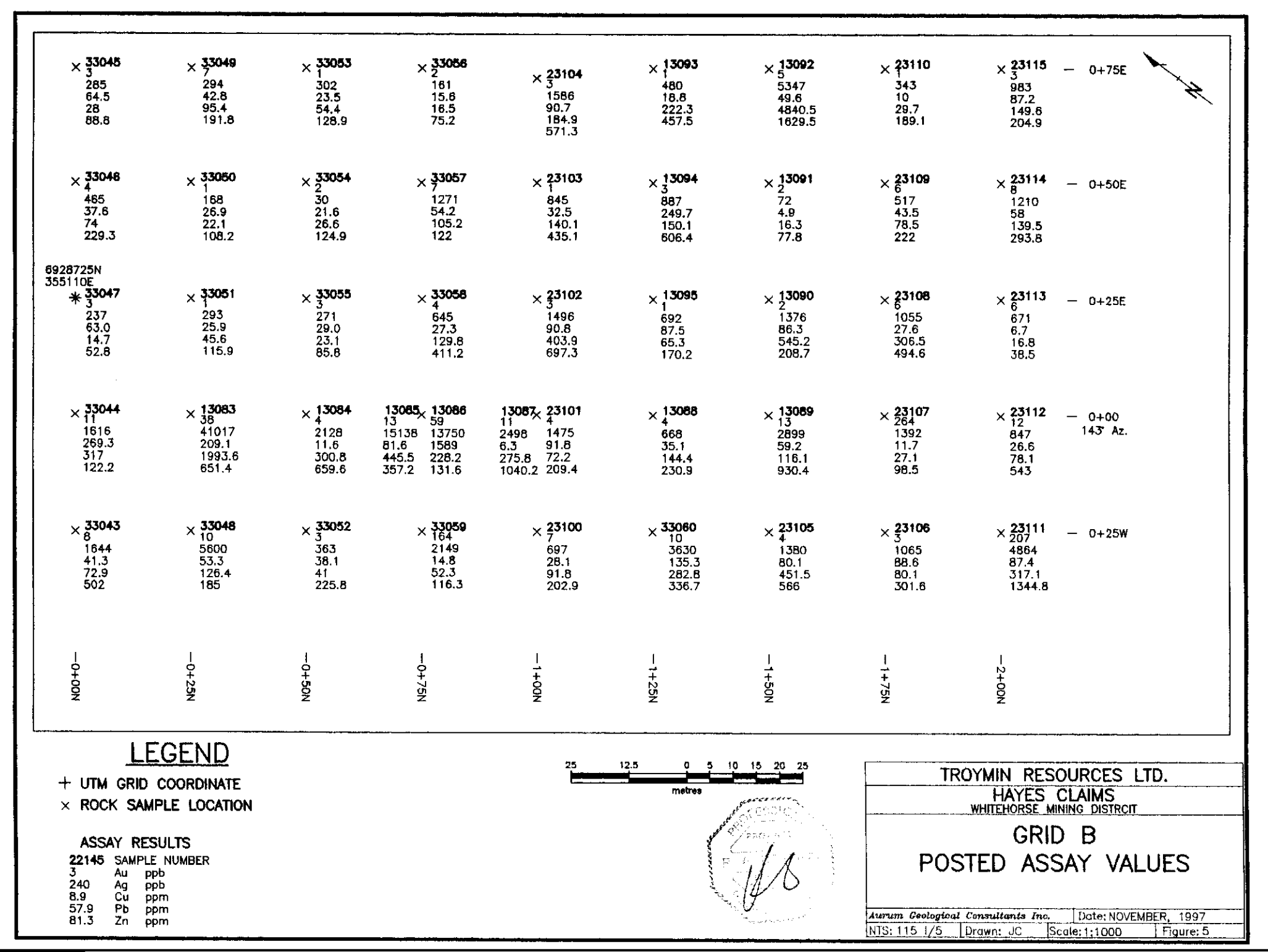
Statistical analysis was done for soils, silts and rocks. The rock samples were first grouped into eastern and western sample populations. Soil and silt samples were collected only on the western side of the property and were not subdivided into east and west sample populations.

The results from this season's work are easiest to interpret when divided into an eastern and a western component and then compared. The comparison results in a distinct east to west property scale zoning of metals within veins of similar genesis. This zoning is most similar to that which is common to porphyry deposit models and is discussed further under geochemical zoning below.

Eastern Porphyry Target

The Eastern Porphyry target was prospected and sampled for five days. A total of 126 rock samples were collected primarily from Grid B and Grid C . Grid B was designed to test an Occidental Minerals Corp. copper anomaly from 1971 (Allebone and Mehrotra, 1971). Grid C was over an area of moderate to intense porphyry style alteration. Results are plotted in Figures 4, 5, and 6.

Allebone et al.(1971) noted chrysocolla, native copper (?), tetrahedrite, malachite and neotocite along the eastern intrusive/volcanic contact zone as well as fracture controlled chrysocolla mineralization in two additional areas. The highest gold assay (61.4 g/t Au, Sample 23065, Figure 4) collected during the 1997 sampling was of a sample of quartz vein material collected at the intrusive/volcanic contact. This sample contained abundant oxidized material and had a pitted and rusty appearance. The sample was collected from an area in close proximity to the eastern contact between the plutonic rocks with the andesite. The andesites in the contact zone are silicified to 40 meters from the contact. Copper mineralization was found sporadically within 40 meters in either direction from the contact. The high gold sample was located as float within talus of plutonic rocks. Two other samples collected in the area resulted in >1 gram gold. Samples numbered 13080 and 33042 returned 1,118 and 1,640 ppb gold respectively. Copper values for these samples are 2,542.7 ppm, 2,911.6 ppm and 15,099.8 ppm respectively. Silver is also highly enriched at 57,214 ppb, >99,999 ppb and 56,636 ppb. These numbers are geochemically significant making this particular area an attractive target for further exploration. Because of the alteration in the volcanics and the disseminated mineralization



LEGEND

+ UTM GRID COORDINATE

× ROCK SAMPLE LOCATION

ASSAY RESULTS

22145 SAMPLE NUMBER

3	Au	ppb
240	Ag	ppb
8.9	Cu	ppm
57.9	Pb	ppm
81.3	Zn	ppm

25 12.5 0 5 10 15 20 25

metres

PROFESSIONAL ENGINEER

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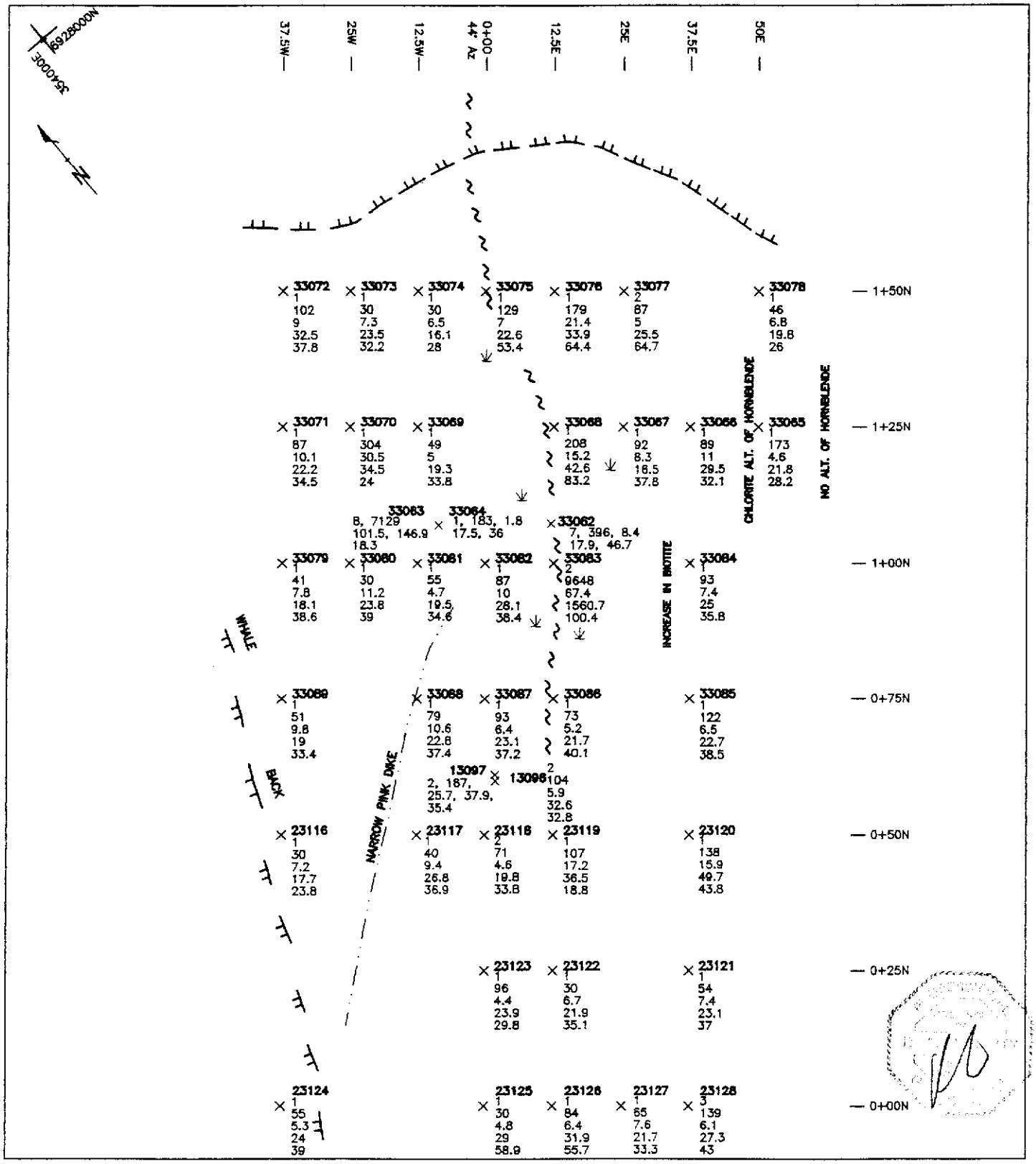
HAYES CLAIMS

WHITEHORSE MINING DISTRCIT

GRID B

POSTED ASSAY VALUES

Aurum Geological Consultants Inc.		Date: NOVEMBER, 1997	
NTS: 115 I/5	Drawn: JC	Scale: 1:1000	Figure: 5



LEGEND

- UTM GRID COORDINATE
- ROCK SAMPLE LOCATION
- BREAK IN SLOPE
- DIKE
- FALUT/SHEAR ZONE
- SWAMP/MEADOW

ASSAY RESULTS

22145	SAMPLE NUMBER	
3	Au	ppb
240	Ag	ppb
8.9	Cu	ppm
57.9	Pb	ppm
81.3	Zn	ppm

25 12.5 0 5 10 15 20 25
metres

TROYMIN RESOURCES LTD.

HAYES CLAIMS
WHITEHORSE MINING DISTRICT

GRID C
POSTED ASSAY VALUES

Aurum Geological Consultants Inc. | Date: NOVEMBER, 1997

NTS: 115 I/5 | Drawn: JC | Scale: 1:1000 | Figure: 6

contained it is reasonable to assume that the volcanics pre-date the intrusions and could host porphyry mineralization.

The soil anomalies produced during the 1971 program were large in area up to several thousands of meters in length by several hundreds in width, being defined by a 65 ppm copper contour (Figure 4 shows the copper in soil anomalies contoured at 100 ppm copper on the eastern side of the property and 130 ppm copper on the west side). Examination of several of the anomalous areas in 1997 indicated structural zones defined by contacts and/or faults with increased alteration (epidote, chlorite, pyrite etc.), dyking and metal deposition. 1997 sampling of one of these areas by collecting rock specimens on a 25 meter spacing proved to be inconclusive (Grid B, Figure 5). The lack of outcrop and presence of large, blocky talus made collection of representative samples difficult.

Grid B was located over andesitic volcanics and returned a few low grade gold in rock anomalies (Figure 5). The best value was 264 ppb Au from Sample 23107. The andesites on grid B were more intensely epidote altered than rocks outside the grid area. A small north-south structure on the east side of Grid B returned 137 ppm copper from Sample 33061.

Grid C was located over a moderately altered syenite hosting narrow fine grained pink dykes and narrow tourmaline veins with associated pyrite. In the centre of the grid, Samples 1396 & 1397, from a biotite altered pyritic zone returned very low values for gold, copper and other elements (Figure 6).

Western Vein Targets

The western portion of the property was explored using silt, soil and rock sampling. Silt samples were collected from the upper portions of most of the creeks draining the area. Grid A was located over a 1983 Archer-Cathro arsenic-silver-gold in soil anomaly. Other areas sampled included the northern end of soil Anomaly A and the Number 7 Vein to the southeast.

Silt Sampling

Thirty-four silt samples were collected on creeks draining the upper slopes of the western portion of the property. Silt samples were collected and sieved through a coarse grizzly followed by a -20 mesh screen while in the field. This process resulted in fewer samples per day being taken but avoided the cost of helicopter collection of large, ungainly samples. The samples were placed in 5 x 8 inch silt bags which allowed excess water to drain.

One sampler collected two full silt bags at ten samples sites yielding 23 samples in total (Sample numbers 31004A &B to 31013A & B). Sample 31011A & B returned 14

ppb Au and 218 ppb Au respectively. The duplicate samples illustrates the nugget-like nature of the gold.

Most of the anomalous silt samples were collected from the upper portion of the same drainage (Frog Creek). Silt samples generally returned low gold values, the highest being from sample 21051 which returned 376 ppb Au and a nearby sample which returned 208 ppb Au (Sample 31027) on the west side of Anomaly A. Two samples on the southern side of Anomaly A, samples 21043 and 31021 returned 247 and 240 ppb Au respectively. Sample 31011B returned 218 ppb Au from the central part of Anomaly A, Figure 4.

The samplers occasionally panned the creek sediments for visible gold and were unsuccessful in all instances. Also, there is no record of placer gold being mined from any of the sampled drainages.

Soil Sampling

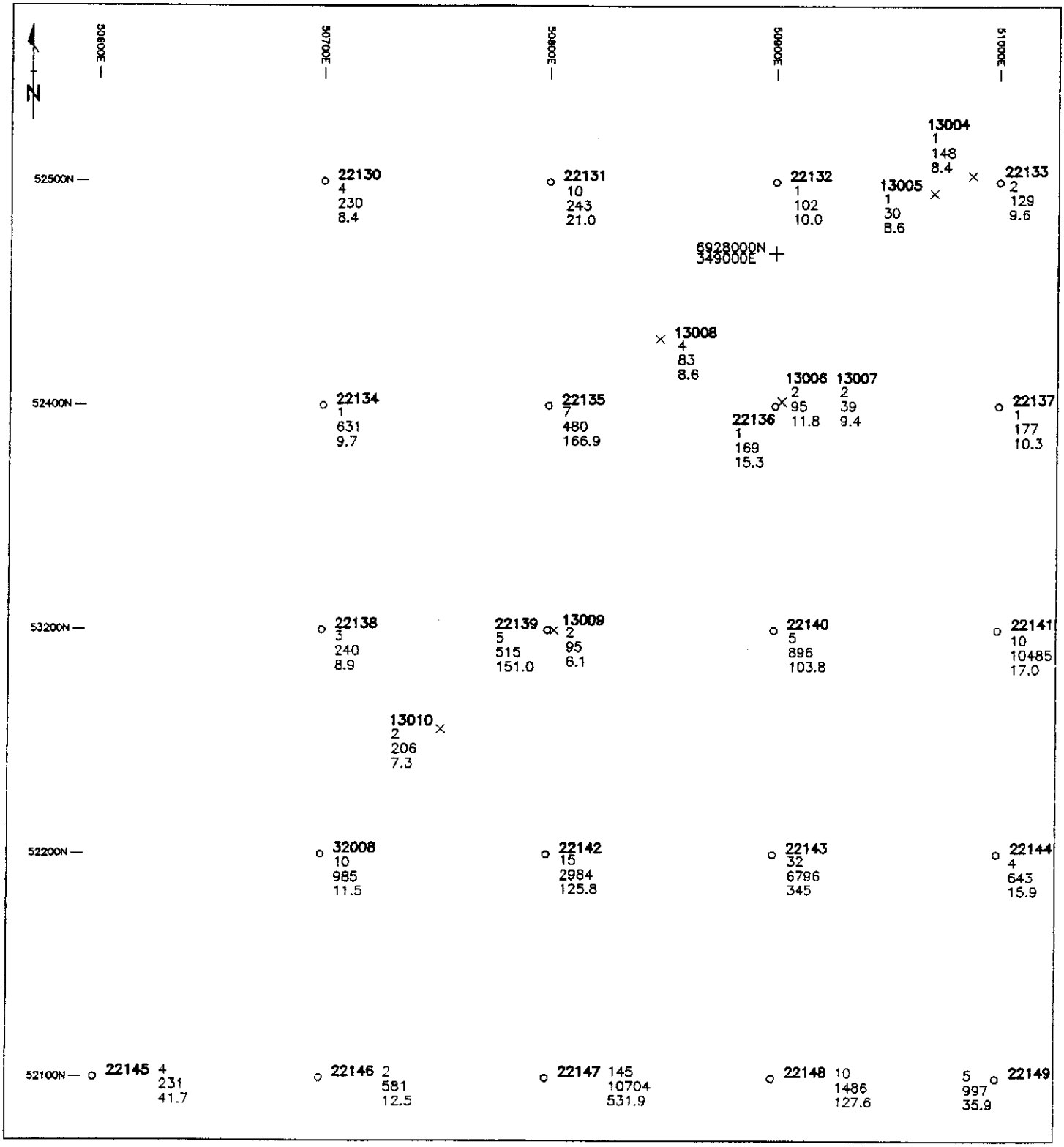
Grid A, (Figure 7) was located over a 1983 Archer Cathro, gold and arsenic in soil anomaly. The best result from Grid A was sample 22147 which returned 145 ppb Au.

Rock Sampling

A total of 160 rock samples were collected on the western side of the property. Sample numbers and gold values greater than 500 ppb Au are plotted on Figure 4.

Previous soil sampling on the property indicated the presence of large (>700 meter long) coincident arsenic, gold, and silver anomalies through the western end of the property (Figure 4, Anomaly A). In 1997, several of these anomalies were prospected and sampled. The anomalous areas were found to be underlain by weakly altered host rock (monzo-syenite and andesite) with abundant, narrow tourmaline veinlets (1mm to <15cm) and occasional narrow quartz sulphide veins. Extensive sampling of these veinlets indicates that they are the source of the elevated geochemical response. These zones of elevated arsenic, silver and gold trend south, southwest for at least four kilometers. Although tourmaline-quartz veins can be found almost anywhere on the property, in this area they are found in greater concentrations over larger areas. The central portion of the trend was diamond drill tested by Archer, Cathro and Associates (1981) Limited. Results of the drill program were disappointing. However, if the original geochemical data is available, a geochemical analysis of the data in conjunction with the 1997 data could be used to determine if a vertical or lateral mineral zoning exists within the tourmaline vein zones. In some areas, the plutonic rocks themselves have been altered and mineralized resulting in an elevated geochemical response (sample 13015).

Rock samples from tourmaline veins collected within Anomaly A generally returned values an order of magnitude lower than the silts collected around Anomaly A.



LEGEND

- + UTM GRID COORDINATE
- o SOIL SAMPLE LOCATION
- × ROCK SAMPLE LOCATION

ASSAY RESULTS

22145 SAMPLE NUMBER
3 Au ppb
240 Ag ppb
8.9 As ppm

TROYMIN RESOURCES LTD.

HAYES CLAIMS
WHITEHORSE MINING DISTRICT

GRID A
POSTED ASSAY VALUES

Aurum Geological Consultants Inc. | Date: NOVEMBER, 1997
NTS: 115 I/5 | Drawn: JD | Scale: 1:2500 | Figure: 7

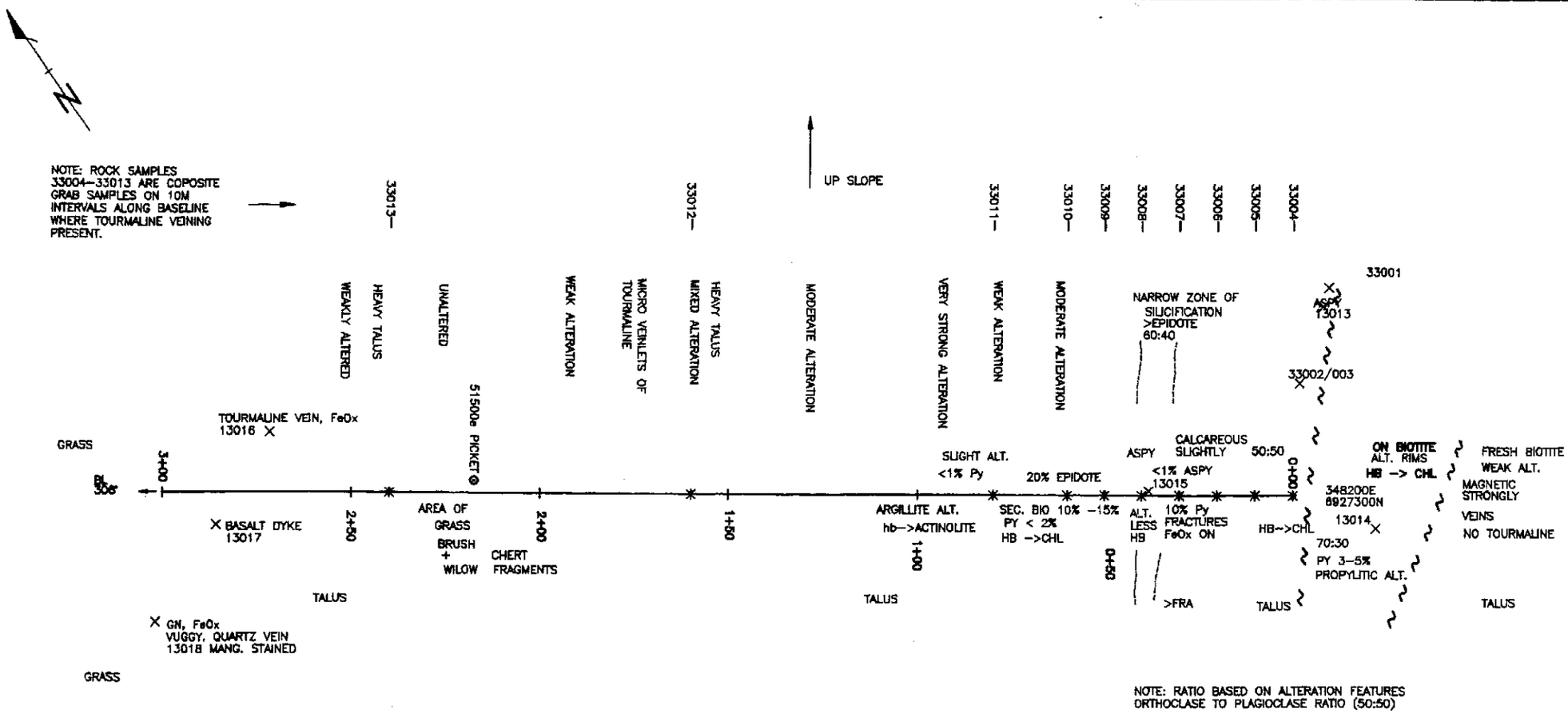
Virtually all samples returning values of greater than 500 ppb Au are from quartz deficient sulphide bearing veins.

With respect to the tourmaline veins, rock sampling shows no correlation between Au and Ag or between Au and other elements which do correlate with Ag (except Sb). There is a weak correlation of gold with Fe, Ni, As, and Cr. From this data the following conclusions can be drawn: i) It is likely that gold in the area is tied in with an episode of iron sulphide deposition as suggested by the correlation of gold with iron, arsenic, nickel, and chromium; ii) This event is likely associated with the emplacement of the swarms of tourmaline, quartz veins found in abundance in the area, iii) the lack of placer accumulations of gold in the drainages suggest that the amount of gold present in the surrounding silver, lead, zinc (copper) veins is insufficient to justify further exploration of these veins, and; iv) the presence or absence of a significant bulk tonnage low grade gold deposit in the area can not be determined with the available data..

Several samples from a previously undiscovered occurrence on the cat road cutting the south slope of 'Center Mountain' produced high copper and gold values (samples 13048, 13050, 33035; Figure 4, Anomaly B). Samples of specular hematite without copper oxides did not result in the same high gold values when it is present. The fractures are adjacent to brecciated and silica healed porphyry dykes. Samples of the dykes were slightly elevated in copper and silver but not in gold. The narrow (8cm or less) mineralized fractures were located over a width of several 10's of meters although the samples with significant gold values were rare. The samples were collected directly from the upper side of the cat road cut. Deep weathering and ground sloughing made determination of the extent of mineralization in the area difficult. It is clear that the area has not been previously sampled. Surprisingly, soil sampling in the area did not produce an anomaly. Since known vein structures in the area have been shown to produce sizable dispersion halos clearly visible on the AC soil geochemical maps, the potential of this new occurrence is somewhat limited.

The Number 7 Vein area produced a number of anomalous gold in rock samples from sulphide veins. Eight samples returned values between 790 and 3420 ppb Au. (See samples 22033, 13041, 13042, 13043 & 13071, Figure 4)

Goldielocks Ridge was sampled in an attempt to locate the source of the geochemical anomalies. Figure 8 shows the sample control line and tourmaline vein sample locations as well as alteration assemblages. The best gold value on Goldilocks Ridge was 130 ppb Au from Sample # 33001. Samples were also elevated in Ag, As, Cu, Pb, and Mo.



NOTE: RATIO BASED ON ALTERATION FEATURES ORTHOCLASE TO PLAGIOCLASE RATIO (50:50)

ASSAY DATA

SAMPLE	Au	Ag	As	Cu	Pb	Zn	Mo
13013	18	14914	226.8	47.4	576.2	27.6	3.2
13014	3	1041	13.6	56.8	143.7	424.3	3.5
13015	8	1812	691.6	56.8	111.4	217.7	7.0
13016	12	47427	185.8	188.1	905.5	11.7	21.2
13017	8	519	9.7	21.6	21.0	70.0	1.2
13018	34	1307	11.7	172.4	463.8	1576.5	5.3
33001	130	20983	91.8	82.5	846.0	27.2	3.9
33002	67	11299	365.1	43.3	629.0	20.3	5.6
33003	7	1861	15.8	19.6	104.3	76.8	6.2
33004	9	3221	72.7	16.1	169.6	9.7	5.5
33005	21	3313	1222.6	45.4	1036.3	45.8	1.0
33006	25	12607	241.7	15.4	606.1	10.1	4.2
33007	49	33311	1019.3	40.5	1182.1	14.5	0.9
33008	7	2513	134.4	25.7	186.0	238.8	4.4
33009	21	7333	291.1	14.0	462.8	13.9	3.6
33010	18	200	49.3	9.1	170.7	12.1	5.2
33011	11	8118	38.6	12.2	347.6	202.6	4.1
33012	15	3087	18.6	14.3	309.1	19.7	3.0
33013	26	8765	44.4	13.8	270	39.9	4.2

LEGEND

- ▷ UTM GRID COORDINATE
- × ROCK SAMPLE LOCATION ASSAY RESULTS

22145 SAMPLE NUMBER
3 Au ppb
240 Ag ppb
8.9 Cu ppm
57.9 Pb ppm
81.3 Zn ppm

~~ FAULT/SHEAR ZONE

25 0 10 20 30 40 50
metres

TROYMING RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

GOLDIELOCKS RIDGE GRID AND SAMPLE LOCATION

Aurum Geological Consultants Inc. | Date: NOVEMBER, 1997
NTS: 115 I/5 | Drawn: JC | Scale: 1:1500 | Figure: 8

Geochemical Ratios and Metal Zoning

Elemental ratios have been used to determine zoning patterns on the property. Dot-Plots of element ratios are shown in Figure 9a to 9g and are found in Appendix C.

Ag/Au ratios (Figure 9a), and to a much less extent Au/Ag ratios (Figure 9b) increase to the west reflecting the abundance of silver rich epithermal veins in that area. Those samples with high Au/Ag ratios are more evenly distributed between the east and west sides of the property. The lessening of the ratio to the east is typical of the zoning relations found around porphyry copper gold deposits. The Cu/Au ratios (Figure 9c) show a more even distribution of gold to copper in the east which is also somewhat typical of copper gold porphyries. Sporadic high gold values from veins in the west are indicative of the epithermal style of mineralization present. Mo/Cu ratios (Figure 9d) are greatest in the east as would be expected around an intrusive with porphyry potential. Historical data indicates a further increase in molybdenum south and east of the cluster of 1997 samples plotted. Pb/Cu ratios (Figure 9e), perhaps the most indicative of an east to west metal zoning, seem to show three clear clusters with a westward increase in the metal ratio. Pb+Zn/Cu (Figure 9g) also shows this westward trend but does not define it as well. Pb/Mo ratios (Figure 9f) clearly separate the eastern and western portions of the property.

The correlation of gold with Pb, Zn and Sb as found on the western portion of the property is typical of polymetallic vein mineralization which is commonly found peripheral to porphyry deposits of copper and gold.

Tourmaline and other veins on the eastern portion of the property do not have such elevated base metal values. In fact, correlation coefficient analysis of the rock sample results indicate a dramatic shift in gold from east to west. In the east, gold is strongly associated with W, Tl, Se, and Te and weakly with Sb, while in the west, gold is associated weakly with Pb, Zn and Sb. The positive yet weak correlation of antimony to gold in both east and west samples reflects the similarity in deposition mechanisms for the two elements. The strong correlation between gold and thallium (0.981) selenium (0.844) and tellurium (0.970) in samples collected from the eastern portion of the property is notable and is best explained by that which is common to all of these elements; their tendency to become enriched in oxidizing conditions. Tungsten (0.995) is common enough in most types of gold deposits and is resistant to weathering and solution which results in its concentration in gossanous areas as well.

CONCLUSIONS AND RECOMMENDATIONS

Many of the known mineralized structures in the western portion of the property were reexamined in 1997. It soon became clear that the work done by Archer, Cathro and Associates (1981) Limited (AC) in the early 1980's on the veins was thorough. AC's extensive experience in vein exploration and exploitation leaves little doubt that if there were economic concentrations of minerals in the veins near surface, they would have discovered them. Very few new veins were discovered during the 1997 program. The 1997 work confirmed the sporadic nature of vein mineralization.

In the authors' opinion, the potential for developing significant gold reserves in the epithermal veins in the western portion of the property are slim. The most extensive alteration/mineralization in the area is associated with tourmaline-quartz veins and stringers which are geochemically elevated in arsenic, silver, and sporadically gold. Some work could be done on existing data if it were made available to determine if there is a lateral or vertical metal zoning to these veins which could possibly result in the discovery of a gold rich zone.

The eastern portion of the property has some potential for hosting copper gold porphyry style mineralization. The Casino copper gold molybdenum deposit, located some 45 kilometers to the west, is hosted by plutonic rocks of the same age. It is most likely that significant mineralization in this area will be related to the large, north trending structures which trend across the property. It is entirely possible that porphyry mineralization remains buried and that the highly anomalous samples collected in the eastern portion of the property represent enargite-gold mineralization peripheral to a deeper copper gold zone.

Pyrite is not found in great quantities on the property. An increase in the pyrite content of the host rock was encountered within areas of anomalous soil geochemistry on the eastern portion of the property but not to any great extent. Hematite is ubiquitous but varies significantly in quantity from place to place. In fact, all of the volcanics contain hematite which may be indicative of shallow water deposition rather than an alteration feature. It is recommended that whole rock geochemistry be considered as a means of delineating areas of potential mineralization. Whole rock analysis should include Fe^{II} and Fe^{III} as well as sulfur.

It is recommended that existing data available for the eastern portion of the property be collected and digitized. A more extensive metal ratio determination can be made with the available data which could lead to the narrowing of targets for the 1998 season.

A program of mapping specific volcanic flows and intrusive phases and their alteration packages is strongly recommended. Mapping and sampling should concentrate on mineral assemblages and alteration packages especially near large structural trends.

Sampling of rocks should be done on a close spacing in areas of suspected mineral deposition. Several samples should be collected for whole rock analysis to determine host lithology, alteration, and differentiation of potential host lithologies from those with none. Calcareous rocks in the vicinity should be examined and sampled to determine the potential for distal gold and copper-gold replacement deposits. Those adjacent to or cut by north trending structures in the area should be examined most closely.

The existing radiometric and airborne magnetometer data should be examined and incorporated into the exploration efforts.

Respectfully Submitted,
Aurum Geological Consultants Inc.

R. Allan Doherty, P.Geo.

Dennis J. Ouellette, B.Sc.

December 16, 1997

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STATEMENT OF QUALIFICATIONS (RAD)

I, R. Allan Doherty, with business address:
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205 - 100 Main Street
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Y1A 3T5

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 205 - 100 Main Street, P.O. Box 4367, Whitehorse, Yukon.

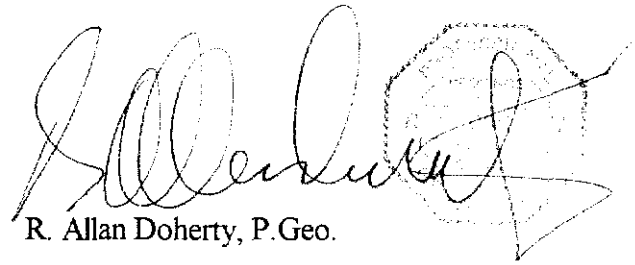
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland (1978-81). I have been involved in geological mapping and mineral exploration continuously since then.

3. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564.

4. I am co-author of this report on the 1997 work program on the Hayes Creek Property which is based on data collected during property work completed between August 8-27, 1997 by Aurum Geological Consultants Inc. and on referenced reports.

5. I have no direct or indirect interests in the properties or securities of Troymin Resources Ltd.

6. I consent to the use of this report by Troymin Resources Ltd., provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.



December 16, 1997

R. Allan Doherty, P.Geo.

STATEMENT OF QUALIFICATIONS (DJO)

I, Dennis J. Ouellette, with business address:
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205 - 100 Main Street
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1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 205 - 100 Main Street, P.O. Box 4367, Whitehorse, Yukon.

2. I am a graduate of Brandon University, with a degree in geology (Spec 1984). I have been involved in mineral exploration continuously since 1977.

3. I am co-author of this report on the 1997 work program on the Hayes Creek Property which is based on data collected during property work completed between August 8-27, 1997 by Aurum Geological Consultants Inc. and on referenced reports.

5. I have no direct or indirect interests in the properties or securities of Troymin Resources Ltd.

6. I consent to the use of this report by Troymin Resources Ltd., provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

December 16, 1997 Dennis J. Ouellette, B.Sc.

STATEMENT OF COSTS

Work performed on the Hayes Claims as per Assessment Certificates claiming a total assessment value of $53,975.00. All work was completed between July 1 and August 27, 1997. Work included tote trail construction mapping, silt soil and rock sampling and report writing.

A. Personnel

Dennis J. Ouellette, project geologist Aug 1-Sep 10, 1997, 32 days @ $350/day	$9,800.00
Brian Sauer, Prospector, Sampler Aug 8-27, 1997, 19 Days @ $300/day	$5,700.00
Michael Wienert, Prospector, Sampler Aug 8- 27, 1997, 16 Days @ $250/day	$4,000.00
Peregrine Nolan, Expediting Aug 9, 1997 1 day @ $200.00	$ 200.00

B. Expenses

Camp Costs 57 man days @ $60 per day	$3,420.00
Truck rental	$ 785.00
Gasoline	$ 248.55
Sample Shipping	$ 517.84
Analytical Costs 340 samples @ $17 per sample	$5,780.00
Helicopter 15 Hours @ $780/ hr	$11,700.00
Caterpillar rental	$10,000.00

C. Report Costs

Report Writing and Reprographics	$5,000.00
Sub-Total	**$57,151.39**
GST (7% of $57,151.39)	$ 4,000.60
TOTAL ASSESSMENT VALUE	**$61,151.99**

APPENDIX A
ANALYTICAL REPORTS
and
CORRELATION MATRIX

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @LOTUS FORMAT

To Troymin Resources

Acme file # 97-4781 Page 1 Received: AUG 25 1997 * 91 samples in this disk file.

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
13001	5.5	8.2	18.3	66.1	124	35	6	179	3.99	33.4	< 5	11	49	0.21	0.5	2.5	54	0.28	0.197	19	65	1.03	68	0.01	6	1.18	0.07	0.13	< 2	< .2	28	1.3	0.4	6.7	5
13002	5.8	39.3	90.2	204.3	525	17	10	1364	3.45	83.5	< 5	5	107	0.99	4.5	0.4	55	4.18	0.153	13	12	1.22	54	< .01	< 3	0.49	0.03	0.07	< 2	0.2	27	< .3	< .2	2	1
13003	2.6	69.3	128.9	227.9	463	63	20	618	3.38	10.7	< 5	2	76	1.22	0.5	< .1	83	1.25	0.216	13	150	2.27	87	0.12	< 3	1.36	0.03	0.06	< 2	< .2	13	< .3	< .2	7.7	2
13004	2	14.2	30.9	98.2	148	7	6	571	2.34	8.4	< 5	28	24	0.52	1.3	0.4	54	0.73	0.081	21	23	0.54	111	0.1	< 3	0.79	0.05	0.24	5	< .2	18	< .3	< .2	4.6	< 1
13005	1.6	8.7	23	39.6	< 30	5	4	258	2	8.6	< 5	27	16	0.13	0.7	0.1	52	0.34	0.078	15	20	0.41	63	0.14	< 3	0.63	0.05	0.2	3	0.2	12	< .3	< .2	4.6	< 1
13006	2.1	12.8	31.1	86.2	95	6	5	546	2.23	11.8	< 5	29	21	0.27	0.9	0.1	54	0.61	0.076	18	22	0.58	92	0.11	< 3	0.74	0.05	0.19	4	0.2	12	< .3	< .2	4.9	2
13007	3.3	7.8	24.2	43	39	6	4	288	2.27	9.4	< 5	30	17	0.07	1	< .1	60	0.36	0.082	18	25	0.44	88	0.16	3	0.79	0.08	0.26	5	0.2	22	< .3	< .2	5.5	2
13008	1.7	7.4	29.1	195.4	83	6	4	444	2.38	8.6	< 5	32	18	1.18	1	0.2	59	0.45	0.08	21	24	0.55	99	0.13	3	0.81	0.05	0.22	5	0.2	12	< .3	< .2	5.1	4
13009	3.5	6.2	36.4	206.9	95	7	6	518	2.39	8.1	< 5	31	19	1.99	1.1	0.1	61	0.45	0.079	22	23	0.54	88	0.12	< 3	0.84	0.04	0.23	3	0.3	25	< .3	< .2	5.4	2
13010	3.1	20	60	114.1	205	5	6	442	2.31	7.3	< 5	31	15	0.41	0.7	0.3	64	0.34	0.082	23	24	0.52	108	0.17	< 3	0.6	0.06	0.31	3	0.3	17	< .3	< .2	4.7	2
13011	4.6	14.6	68.3	182.5	633	7	7	612	2.43	140.6	6	30	18	1.19	1	2.6	54	0.54	0.083	23	24	0.73	78	0.08	4	1	0.05	0.2	5	0.3	28	< .3	< .2	6.2	6
13012	2	11.3	34.5	77.4	198	7	5	302	2.31	13.3	< 5	28	15	0.28	0.7	0.9	48	0.34	0.082	19	22	0.56	95	0.14	7	0.7	0.05	0.22	6	0.2	24	< .3	< .2	4.4	3
13013	3.2	47.4	576.2	27.6	14914	4	1	75	0.78	228.8	< 5	12	7	0.43	246.7	60.8	3	0.04	0.031	10	19	0.02	42	< .01	103	0.17	0.01	0.1	7	0.3	57	3	1.3	< .5	18
13014	3.5	58.8	143.7	424.3	1041	7	8	507	2.66	13.6	8	29	27	2.72	3.1	1.2	53	0.57	0.078	30	28	0.7	59	0.1	3	1.14	0.05	0.13	5	< .2	14	0.4	< .2	6.4	3
13015	7	188.1	111.4	217.7	1812	8	8	951	4.06	691.6	< 5	30	29	0.9	1.3	6	62	1.16	0.08	35	25	0.86	33	0.04	7	1.55	0.08	0.14	4	< .2	17	0.5	< .2	7.8	8
13016	21.2	21.6	905.5	11.7	47427	2	1	38	0.64	185.8	< 5	11	40	0.34	355.6	174.5	2	0.02	0.047	2	13	0.02	11	< .01	119	0.08	0.02	0.02	4	0.2	238	0.7	0.7	< .5	12
13017	1.2	172.4	21	70	519	110	15	215	3.19	9.7	< 5	10	31	0.14	2.6	2.5	127	0.86	0.254	19	192	1.43	107	0.3	< 3	1.14	0.08	0.92	2	0.3	< 10	< .3	< .2	5.8	8
RE 13017	1.1	174.1	17.1	70.3	463	111	16	216	3.2	8.9	< 5	10	31	0.09	2.2	2.2	128	0.86	0.256	19	193	1.45	107	0.3	< 3	1.15	0.08	0.92	2	0.2	19	< .3	< .2	5.7	6
13018	5.3	73.8	483.8	1576.5	1307	5	4	660	0.88	11.7	< 5	7	5	10.95	7.5	1	7	0.24	0.026	7	20	0.11	40	< .01	9	0.29	0.01	0.1	7	0.4	33	0.6	< .2	1	34
13019	3.7	253	3411.5	2001.9	20021	141	27	13215	3.05	166.3	< 5	11	51	30.31	55.4	1.1	41	0.67	0.279	25	80	0.39	122	0.01	12	1.24	0.01	0.46	< 2	1.4	116	< 1.5	< 1.0	4.2	12
13020	1.7	101.7	464.6	398.6	4497	127	60	190	4.28	585.3	< 5	7	20	9.68	9.1	3.1	5	0.55	0.243	4	34	0.05	4	0.01	113	0.15	0.01	0.03	3	0.3	47	10.7	< .2	1.2	34
13021	18	141.7	6804.6	919.6	22545	27	20	7083	2.46	580.8	< 5	6	41	15.73	37.9	18.3	3	0.32	0.169	2	32	0.03	6	< .01	82	0.16	0.01	0.02	6	< 2.0	66	60	< 2.0	< 5.0	244
13022	4.6	270.4	1377.6	631.1	33124	29	17	9169	1.86	198.2	< 5	5	37	15.57	90.5	1.1	3	0.39	0.19	3	38	0.03	4	< .01	99	0.15	0.01	0.02	4	0.2	70	13.5	< .2	< .5	75
13023	1.9	305.5	134.9	992.7	1416	172	22	7348	7.17	224.2	< 5	9	31	15.72	13.9	16	105	0.65	0.227	20	279	3.78	40	0.01	14	4.34	< .01	0.12	< 2	0.3	24	0.9	< .2	13.8	8
13024	38.3	148.5	5414.9	1006.7	20484	28	32	27233	2.94	853.1	< 5	3	109	29.36	29.2	9.8	4	0.28	0.149	5	30	0.03	9	< .01	120	0.26	0.01	0.05	3	< 2.0	38	29.1	< 2.0	< 5.0	61
13025	4.1	14.7	65.3	51.8	355	41	5	210	0.83	14.1	< 5	7	18	0.15	2	0.8	25	0.58	0.291	16	94	1.1	106	< .01	8	1.32	0.01	0.31	3	< .2	27	0.5	0.2	1.7	2
13026	6.1	2012.9	37.8	704.6	319	11	31	505	2.33	6.3	< 5	22	21	2.45	1.7	4.3	46	0.32	0.102	47	27	0.81	61	0.03	5	1.05	0.05	0.12	< 2	0.4	15	0.8	1.1	9.1	4
13027	8.7	17.8	200.1	196.5	991	11	26	1377	1.37	5.9	< 5	23	21	2.16	0.7	1.1	12	1.17	0.064	30	21	0.4	93	< .01	15	0.86	0.02	0.15	21	0.4	23	0.5	< .2	3.1	211
13028	2	75.1	16225.5	715.4	99999	1	< 1	19	0.71	14	7	< 2	10	42.58	1305.7	10.7	< 1	< .01	< .001	< 1	2	< .01	2	< .01	< 3	0.01	< .01	0.01	< 2	2.8	1049	5.5	< 2.0	< 5.0	2540
13029	6.3	18.7	693.2	12	4244	3	1	59	0.85	92.3	5	9	13	0.12	6.5	4.2	2	0.02	0.029	2	17	0.02	48	< .01	63	0.19	0.01	0.13	4	0.4	24	0.6	0.2	0.8	12
13030	6.6	14.9	207.8	105.2	4142	4	5	1353	1.63	73.6	< 5	24	19	0.58	4.4	5.5	4	0.18	0.089	25	17	0.03	58	< .01	39	0.31	0.01	0.2	6	0.4	12	1	0.8	1.1	24
13031	5	167.9	1223.9	97	10036	5	3	96	1.67	914.7	6	5	145	0.68	64.3	52.2	4	0.03	0.099	7	19	0.02	15	0.01	164	0.12	0.02	0.02	2	< .2	99	2.8	0.2	< .5	33
13032	7.6	400.8	1067.5	189.5	26711	14	50	2815	4.18	367.4	8	12	46	1	180.3	54.2	8	0.28	0.29	7	42	0.01	32	0.01	10	0.11	0.01	0.05	10	< .2	43	7.4	0.5	< .5	64
13033	24.6	207.1	7483.2	183.9	99999	5	2	80	2.25	753.6	< 5	6	58	3.62	488.1	36.7	4	0.02	0.138	4	24	0.04	17	0.01	81	0.11	0.01	0.07	4	< 2.0	138	11.9	< 2.0	< 5.0	45
STANDAR	25.9	131.6	105.7	268.9	2022	32	18	1090	4.38	78	19	19	59	2.15	7.2	22.3	77	0.69	0.105	17	58	1.24	260	0.15	25	2.39	0.04	0.72	20	2.3	431	0.6	1.8	6.9	491
13034	2	180.2	16465.8	37570.3	10152	32	21	11750	1.26	20	< 5	10	10	223.77	14.7	1.4	2	0.4	0.177	6	14	0.08	20	0.01	86	0.08	0.01	0.01	< 2	3.5	86	5	< 2.0	< 5.0	4
13035	4.2	35.2	344.9	365.1	2485	30	27	445	4.28	147.1	< 5	9	19	1.94	1.5	5.6	74	0.62	0.216	10	67	1.38	34	0.08	4	1.47	0.03	0.09	< 2	< .2	23	2.3	< .2	7.6	25
13036	< 1.0	161.5	1257.9	6870	2564	24	13	52504	7.14	71.1	< 5	3	94	38.77	4.3	1.2	55	9.42	0.069	18	59	2.89	64	0.01	8	2.15	< .01	0.1	< 2	< 2.0	62	< 3.0	< 2.0	< 5.0	144
13005	9.4	89.1	662.1	1963.1	931	4	4	3357	1.7	11.8	< 5	27	27	14.18	11.7	0.6	14	2.06	0.076	31	14	0.2	140	< .01	8	0.39	0.01	0.26	3	0.5	65	0.4	< .2	< .5	8
23006	2.8	43.1	120.1	132.6	461	7	12	472	2.05	9.5	6	25	23	0.65	1.1	0.7	45	0.48	0.072	23	22	0.62	43	0.11	4	0.84	0.04	0.11	3	< .2	< 10	< .3	< .2	5.6	2
23007	9.3	3602.7	2284.5	217.8	99999	2	10	16819	2.01	176.3	13	7	10	5.5	401	1131.9	2	0.1	0.017	2	21	0.01	31	< .01	28	0.2	0.01	0.03	47	1	580	8	3.4	< 2.5	152
23008	18.8	478.9	2437.1	244.6	99999	4	2	263	1.97	173.3	< 5	5	11	0.25	178.8	1308.2	4	0.01	0.032	3	16	0.01	12	< .01	45	0.14	< .01	0.05	19	1.2	91	10.9	4.7	< 2.5	158
23009	3.2	61	81.6	170.2	1713	8	8	639	1.16	94.7	< 5	24	38	1.34	3.7	15	12	1.03	0.105	32	20	0.51	50	< .01	9	0.82	0.04	0.18	5	0.4	< 10	< .3	0.9	3.7	7
23010	10.4	10	60.9	34.2	683	4	2	296	0.33	15	7	19	8	0.43	1.7	5.5	2	0.52	0.066	2	22	0.02	35	< .01	68	0.18	0.01	0.09	4	0.2	< 10	< .3	0.2	< .5	12
23011	6.3	66.5	200.3	140.4	2587	3	1	167	1.75	85.6	< 5	18	6	0.24	42.9	2	4	0.1	0.077	20	14	0.03	91	< .01	11	0.42	0.01	0.35	5	1	18	0.4	0.2	1	30
23012	5.1	388.2	160.5	72.3	2523	7	15	439	5.77	143.6	< 5	18	7	0.29	6.6	14	30	0.22	0.039	8	21	0.8	29	0.01	8	0.87	0.02	0.09	5	0.3	17	6.1	0.6	5.8	24
23013	56.7	1089.4	2222.9	362.7	77350	3	11	905	1.44	388.1	11	30	6	0.95	2.5	173.3	2	0.19	0.087	7	16	0.02	7	< .01	140	0.13	0.01	0.02	5	0.7	13	9.2	8.9	< .5	7
23014	1.8	102	43.3	48.1	426	118	16	286	2.94	46.1	< 5	8	31	0.16	1	0.5	113	0.84	0.244	18	305	1.48	80	0.25	< 3	1.02	0.07	0.92	< 2	0.3	< 10	0.5	< .2	5.7	6
23015	39.3	373	9659.5	6413.1	83315	24	14	5656	3.87	70	< 5	< 2	13	107.31	209.7	8.1	14	0.07	0.05	5	29	0.03	26	< .01	13	0.28	< .01	0.06	10	< 2.0	421	3.5	< 2.0	< 5.0	23
23016	15.4	5208.7	7868.9	3895.2	99999	27	24	4116	1.77	374.4	< 5	5	18	95.55	4115	4.4	4	0.31	0.134	5	33	0.03	11	< .01	96	0.12	0.01	0.01	8	< 2.0	806	5.7	< 2.0	< 5.0	85
23017	2.3	36.2	113.6	72.3	6118	7	3	344	1.71	7.2	< 5	28	30	0.93	23.2	0.4	48	0.42	0.088	16	30	0.28	79	0.12	5	0.51	0.08	0.15	5	< .2	< 10	< .3	< .2	2.7	7
23018	15	106.2	18688.1	136.2	99999	< 1	< 1	122	0.54	10	18	< 2	53	25.93	851.8	10.2	< 1	< .01	0.004	1	2	< .01	3	< .01	< 3	0.02	< .01	0.01	< 2	3.8	485	4.2	< 2.0	< 5.0	1980
23019	4.7	36.8	961.6	231.8	6977	69	25	1231	3.83	47.3	< 5	6	40	2.05	14.3	6.3	74	2.15	0.21	17	141	1.41	30	0.16	3	1.37	0.05	0.12	2	1.2	< 10	1.6	< .2	16	14
RE 23019	3.2	36.1	971.1	229.9	4546	69	25	1229	3.82	44.6	< 5	7	40	1.43	9.1	4.3	74	2.17	0.21	17	140	1.42	29	0.16	3	1.35	0.05	0.12	2	0.2	10	1	< .2	10.7	11
23020	6.5	181.7	234.4	85	1122	66	45	504	5.95	19.9	< 5	6	43	0.16	1.2	4.4	85	1.04	0.203	8	152	1.69	39	0.19	3	1.51	0.09	0.17	2	0.2	< 10	3	0.3	8.3	20
23021	0.6	14.1	215.2	188.7	603	70	14	1188	3.07	8.8	< 5	2	96	0.26	3	0.2	88	1.59	0.211	18	94	1.89	40	0.02	< 3	1.96	0.03	0.07	< 2	< .2	< 10	0.3	< .2	10.2	< 1
23022	3.2	2984.2	745.2	129	6550	6	3	3491	12.55	238.9	< 5	< 2	14	0.96	358.7	< .5	87	0.04	0.013	6	16	0.03	65	0.03	6	0.13	< .01	0.04	167	< 1.0	309	< 1.5	1	< 2.5	1
23023	7	3042.6	11130	688.9	99999	10	13	2352	2.82	188.1	< 5	2	8	16.77	935.2	802.8	15	0.08	0.032	2	30	0.02	58	< .01	5	0.16	< .01	0.09	21	2.3	1778	4.7	1.4	< 2.5	258
23024	< 1.0	7418.5	20113.2	1147.3	99999	8	11	160	2.92	624.6	< 5	< 2	33	104.78	3816.9	2152.5	9	0.02	0.009	4	21	0.01	131	< .01	4	0.1	< .01	0.06	11	4.3	1004	30.7	< 2.0	< 5.0	1087
23029	< 1.0	7450.5	21821	1871.5	99999	7	2	114	3.67	1740.5	< 5	< 2	15	33.1	8265.9	52.5	2	0.01	0.004	29	26	0.01	54	< .01	3	0.03	0.01	0.03	< 2	2.8	1405	3	3.3	< 5.0	13700
33001	3.9	82.5	846	27.2	20983	3	1	58	1.07	91.8	< 5	14	15	0.75	84.9	57.6	2	0.05	0.02	11	20	0.01	82	< .01	77	0.11	0.01	0.11	5	0.2	42	1.7	1.1	< .5	130
33002	5.6	43.3	629	20.3	11299	5	4	54	1.37	365.1	< 5	22	11	0.27	46.1	52	2	0.13	0.082	11	29	0.01	41	< .01	83	0.1	0.02	0.05	5	< .2	16	6.9	0.8	< .5	67
33003	6.2	19.6	104.3	76.8	1861	6	8	421	2.39	15.8	< 5	29	22	0.7	6.1	4.3	48	0.61	0.079	23	25	0.61	61	0.08	8	0.83	0.05	0.18	5	0.2	< 10	0.3	0.2	5.2	7
33004	5.5	18.1	169.6	9.7	3221	3	1	45	0.59	72.7	< 5	29	7	0.07	12.3	18.5	2	0.02	0.108	2	27	0.01	11	< .01	116	0.09	0.01	0.02	4	< .2	< 10	0.6	< .2	< .5	9
33005	1	45.4	1036.3	45.8	3313	3	2	61	0.55	1222.6	< 5	24	19	0.23	4.9	3.7	1	0.12	0.055	5	24	0.01	41	< .01	152	0.13	0.01	0.02	6	< 1.0	< 10	2.6	< 1.0	< 2.5	21
33006	4.2	15.4	606.1	10.1	12607	3	< 1	60	0.93	241.7	< 5	14	10	0.06	35.6	74.7	2	0.01	0.083	7	19	0.01	16	< .01	93	0.08	0.04	0.05	84	< .2	< 10	2.3	0.6	< .5	25
33007	0.9	40.5	1182.1	14.5	33311	2	2	42	0.5	1019.3	< 5	11	4	0.31	220.1	455.3	1	0.03	0.035	7	18	0.01	11	< .01	137	0.08	0.01	0.01	4	< 1.0	16	8.3	2.1	< 2.5	49
33008	4.4	25.7	186	236.8	2513	6	5	1409	3.41	134.4	5	19	12	0.95	11.2	14.4	20	0.51	0.048	15	19	0.34	58	< .01	29	1.09	0.01	0.21	8	0.4	< 10	0.9	< .2	3.8	7
33009	3.6	14	462.8	13.9	7333	3	3	57	0.87	291.1	< 5	9	7	0.06	9.6	21.9	2	0.11	0.05	7	21	0.02	26	< .01	122	0.11	0.02	0.04	5	< .2	< 10	3	0.2	< .5	21
33010	5.2	9.1	170.7	12.1	2070	3	1	45	0.58	49.3	7	21	10	0.03	2.3	4.2	2	0.02	0.042	6	18	0.01	28	< .01	93	0.14	0.01	0.07	3	< .2	< 10	< .3	0.4	< .5	18
STANDAR	26	135.1	102.7	284.8	2138	33	18	1068	4.49	79.6	22	20	60	2.11	9.7	22.9	79	0.7	0.108	17	60	1.25	264	0.15	25	2.43	0.05	0.75	19	2.7	458	0.5	2.1	7.7	499
33011	4.1	12.2	347.6	202.6	6118	3	1	97	0.89	38.6	< 5	18	19	1.26	2.2	28.7	2	0.05	0.032	14	17	0.02	70	< .01	70	0.19	0.02	0.12	4	0.3	28	0.6	1.2	0.5	11
33012	3	14.3	309.1	19.7	3087	2	< 1	44	0.49	18.6	< 5	14	9	0.09	3.8	3.4	2	0.05	0.032	10	18	0.02	36	< .01	72	0.19	0.01	0.11	5	0.3	< 10	< .3	0.5	0.7	15
33013	4.2	13.6	270	38.9	8765	2	2	1469	0.47	44.4	< 5	15	29	0.5	8	41.1	3	0.14	0.081	8	13	0.03	53	< .01	60	0.22	0.01	0.12	3	0.3	< 10	3	1.4	0.6	26
33014	6.8	68.3	174.9	11.9	2552	3	8	52	1.1	55	< 5	18	21	0.08	3.1	50.2	2	0.01	0.048	6	17	0.01	30	< .01	55	0.12	0.02	0.07	5	< .2	< 10	5	1.7	< .5	27
33015	1.9	80.8	19.4	160.8	281	82	17	1037	5.85	6.6	< 5	10	38	0.17	0.5	1.3	172	0.48	0.225	20	239	3.06	175	0.29	3	2.57	0.08	1.69	3	1.9	< 10	1.2	< .2	12.6	8
33016	0.6	6.2	23.2	70.7	110	5	4	795	1.74	3.3	< 5	10	41	0.25	0.8	0.4	18	0.36	0.056	13	13	0.59	56	0.03	5	1.09	0.04	0.11	3	< .2	11	< .3	< .2	5.2	2
33017	4.4	14.2	3325.7	13.3	99999	4	1	51	0.43	57.5	< 5	2	14	0.45	5.9	103.8	1	0.01	0.012	1	19	0.02	6	< .01	67	0.04	0.01	0.01	5	< 1.0	12	1.9	25.2	< 2.5	309
33018	3.2	28.3	54.7	44.7	741	4	3	54	1.82	91.9	< 5	5	12	0.16	0.7	3.5	4	0.03	0.085	4	17	0.02	25	0.01	69	0.08	0.01	0.02	6	< .2	< 10	2	0.5	0.5	10

33019	7.5	16.1	187.2	170	2249	6	6	522	1.9	46.9	< 5	36	6	0.66	2.6	1.9	5	0.12	0.071	11	13	0.09	135	< .01	21	0.49	0.01	0.26	3	0.6	< 10	1.3	0.2	1.4	5
33020	3.3	214.3	1296.7	709.1	10486	25	33	6115	1.5	3871	< 5	7	41	35.75	59.3	7.8	5	0.46	0.266	8	40	0.05	41	0.01	151	0.12	0.01	0.07	7	< 2.0	26	7.2	< 2.0	< 5.0	57
33021	2.4	135.1	1500.2	2205.3	4737	105	17	7645	4.43	353.1	< 5	9	54	50.57	9.1	1.9	55	0.45	0.238	19	134	0.33	123	0.06	14	1.11	0.04	0.2	< 2	0.6	35	1	< .2	4.7	40
33022	2.5	25	46.2	96.8	335	42	21	236	3.62	96.2	< 5	7	35	0.76	1.3	1.6	71	0.85	0.237	18	128	0.56	53	0.17	5	0.85	0.05	0.11	4	0.2	< 10	1.4	< .2	5.3	42
33023	8.8	81.8	25.8	372.6	658	74	38	2502	2.48	42.2	< 5	11	37	4.23	0.5	2.3	69	0.97	0.251	19	105	1.26	42	0.2	11	1.82	0.07	0.09	< 2	0.2	< 10	0.4	< .2	10.4	7
33024	2.5	149.5	21.1	99	1030	32	18	179	2.41	37.7	< 5	10	50	1.32	< 1.0	2.1	58	0.87	0.251	22	95	0.62	30	0.21	4	0.93	0.06	0.13	3	< 1.0	10	< 1.5	< 1.0	7.4	26
33025	3.2	66.2	31.4	180.9	722	60	40	411	4.83	68.1	< 5	12	37	0.92	1	2	94	0.71	0.232	24	148	1.59	39	0.24	4	1.71	0.04	0.37	< 2	0.8	< 10	3.4	< .2	10.7	24
RE 33025	3	66	29.3	163.6	600	61	41	417	4.92	68.6	< 5	12	37	0.77	0.8	1.9	96	0.72	0.234	24	149	1.63	39	0.24	4	1.74	0.04	0.37	< 2	0.6	< 10	2.9	< .2	9.2	24
33026	1.3	21.6	26	132.5	717	14	4	1649	0.68	19.1	< 5	9	13	1.07	8.6	0.2	11	0.48	0.234	125	47	0.23	46	0.01	83	0.4	0.01	0.09	5	0.2	< 10	< .3	< .2	1.2	6
33027	1	105.4	20.6	3366.8	884	27	9	837	1.83	35.2	< 5	7	32	26.96	1.6	0.6	68	1.68	0.241	32	113	1.06	10	0.14	39	1.09	0.08	0.01	< 2	< 1.0	10	1.8	< 1.0	6	12
33028	6.3	371.5	24.1	176.8	3497	58	17	169	4.47	82.9	< 5	7	20	0.26	3.5	3.6	59	0.49	0.17	15	90	0.64	45	0.15	7	0.99	0.04	0.19	4	0.3	< 10	6	0.2	6.6	8
33029	5	660.3	3014	1015.4	81219	4	4	141	1.04	805.6	< 5	15	38	24.41	196.9	13.2	2	0.05	0.048	19	12	0.02	146	< .01	36	0.3	0.01	0.13	3	1.2	332	1.7	< .2	0.9	17
33030	2.2	18.1	85.4	18.2	2433	2	1	41	0.53	193.1	< 5	6	9	0.2	27.2	3	2	0.02	0.136	2	18	0.03	13	< .01	178	0.11	0.01	0.01	3	< .2	< 10	< .3	< .2	< .5	254
33031	7.3	227.3	56	176.1	1898	19	9	226	2.89	95.8	< 5	13	32	3.16	2.7	2.9	42	0.37	0.143	16	51	0.66	61	0.13	3	1.54	0.04	0.14	2	0.2	< 10	1.2	< .2	7.2	31
STANDAR	25.2	131.1	104.5	266.2	1817	32	18	1056	4.4	77.9	20	20	60	2.09	7.6	20.9	76	0.69	0.106	17	58	1.23	263	0.15	25	2.41	0.04	0.74	20	2.5	446	0.3	2	7.6	480

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(640)253-3158 FAX(604)253-1716 @ LOTUS FORMAT

To Troymin Resources

Acme file # A97-4782 Page 1 Received: AUG 25 1997 * 38 samples in this disk file.

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
21001	2.9	110.3	56.1	131.4	2055	23	9	877	2.65	8.3	< 5	< 2	34	0.89	1.7	1	63	0.53	0.149	32	36	0.61	89	0.02	< 3	1.7	0.01	0.05	< 2	< .2	71	0.3	< .2	7.1	6
21002	1.6	87.6	52	112.1	1586	25	9	766	2.18	5.1	< 5	< 2	44	0.84	1.8	0.9	58	0.69	0.126	31	41	0.6	117	0.04	< 3	1.49	0.01	0.05	< 2	< .2	63	< .3	< .2	6.1	5
21003	1.5	73.1	66.3	156.8	1442	33	13	894	3.3	6.5	< 5	< 2	34	0.54	1.9	1.1	97	0.55	0.123	23	71	0.8	90	0.07	< 3	1.51	0.01	0.04	< 2	< .2	50	< .3	< .2	6.9	6
21004	1.6	55.3	63.8	175.9	666	37	14	713	4.04	8.1	< 5	2	36	0.32	2.2	1.4	131	0.62	0.178	19	122	0.93	70	0.1	< 3	1.38	0.01	0.04	< 2	< .2	34	< .3	< .2	7.3	108
21025	2.3	35.8	45.9	146.3	477	34	12	497	2.68	5.4	< 5	2	45	0.33	2.2	0.5	73	0.59	0.147	20	68	0.98	91	0.06	< 3	1.52	0.01	0.04	< 2	< .2	23	< .3	< .2	6.1	2
21026	1.1	44.5	61.5	153.9	466	35	12	429	3.11	4.6	< 5	2	41	0.33	0.8	0.3	103	0.67	0.153	19	100	1.02	67	0.1	< 3	1.33	0.01	0.05	< 2	< .2	31	< .3	< .2	6.1	2
21027	1.1	71.5	62.1	156	1071	41	12	630	2.88	5.6	< 5	< 2	44	0.6	1.1	0.5	87	0.71	0.122	24	79	1.01	100	0.09	3	1.79	0.01	0.05	< 2	< .2	31	< .3	< .2	7	4
21028	1.7	91.9	83	224.4	1829	34	9	648	2.42	3.8	< 5	< 2	51	1.89	1.3	0.2	62	0.82	0.184	34	50	0.74	127	0.04	4	2.07	0.01	0.07	< 2	< .2	99	< .3	< .2	8.2	2
21030	1.2	72.4	58.4	145.3	879	32	12	1169	2.58	6.2	< 5	< 2	42	1	2.6	1.6	73	0.66	0.164	25	49	0.85	109	0.05	< 3	1.62	0.01	0.06	< 2	< .2	14	< .3	< .2	6.6	6
21031	1.3	83.3	123.5	230.9	1649	40	12	827	2.97	4.9	< 5	< 2	55	0.83	3.5	0.8	78	0.78	0.189	29	73	1.08	88	0.05	< 3	1.72	0.02	0.07	< 2	< .2	41	0.4	< .2	7.2	43
21032	2.7	139	87.8	142.8	1969	37	16	1178	2.94	7.4	< 5	< 2	44	0.71	2	3.7	75	0.7	0.157	30	56	0.94	86	0.04	< 3	1.78	0.02	0.07	< 2	< .2	84	0.4	< .2	7.6	6
31001	3.8	60.4	154	244.6	1063	42	14	1010	3.85	30.2	8	9	69	1.86	3	4.5	112	0.74	0.219	25	144	0.79	116	0.11	< 3	1.56	0.02	0.19	< 2	0.3	45	0.4	< .2	6.3	6
31002	1.6	82.1	74.3	133.5	1526	24	10	888	2.66	6.4	< 5	< 2	31	0.89	1.8	1.4	65	0.51	0.126	26	43	0.67	97	0.03	< 3	1.63	0.01	0.05	< 2	< .2	49	< .3	< .2	6.2	12
31003	1.9	67.1	62.2	135.7	1521	27	11	736	3.09	8.8	< 5	< 2	39	0.58	1.6	1.1	90	0.68	0.157	24	76	0.78	95	0.08	3	1.62	0.01	0.05	< 2	< .2	62	< .3	< .2	6.3	3
31004A	1.5	54.3	44.8	113.4	766	25	10	682	2.71	5.9	< 5	< 2	39	0.42	1.3	0.6	75	0.71	0.168	22	58	0.8	86	0.07	< 3	1.47	0.01	0.05	< 2	< .2	38	< .3	< .2	6	2
31004B	1.5	58.9	43.7	108.4	945	24	10	684	2.55	6.4	< 5	< 2	38	0.43	1.2	0.6	69	0.69	0.146	22	52	0.78	93	0.07	< 3	1.54	0.01	0.05	< 2	< .2	40	< .3	< .2	6	3
31005A	5.2	126.8	177	452.3	2184	48	20	1419	3.5	13.7	8	3	93	3.79	2.8	5.4	79	0.83	0.187	30	77	1.02	138	0.08	< 3	2.03	0.02	0.17	< 2	0.4	95	1.4	< .2	6.8	9
31005B	5.2	100.4	158.9	432.1	1559	52	21	1232	4.29	31.6	< 5	5	96	2.87	2.8	7.2	102	0.83	0.239	27	113	1.13	125	0.1	4	1.86	0.02	0.25	< 2	0.4	51	1.3	< .2	7.4	70
31005C	1.4	50.6	44.5	125	966	28	11	623	2.53	5.4	< 5	< 2	40	0.55	1.2	0.6	67	0.7	0.161	19	61	0.88	101	0.06	< 3	1.51	0.01	0.04	< 2	0.2	40	0.3	< .2	6	10
31005D	1.4	59.4	37.8	114.5	1386	27	10	517	2.29	5.8	< 5	< 2	46	0.48	1	0.5	58	0.76	0.146	21	54	0.8	128	0.05	3	1.69	0.02	0.05	< 2	< .2	57	0.3	< .2	5.6	3
RE 31005	1.3	58.4	36.6	111.2	1385	26	9	508	2.23	5	< 5	< 2	46	0.46	1	0.5	57	0.74	0.142	20	53	0.78	126	0.05	< 3	1.66	0.01	0.05	< 2	< .2	68	< .3	< .2	5.7	19
31006A	5.6	114.8	250.7	422.9	2575	53	24	1693	3.87	33.5	< 5	5	96	4.48	2.9	4.3	85	0.73	0.194	27	91	1.18	150	0.09	3	2.05	0.02	0.26	< 2	0.5	76	1.4	< .2	7.4	31
31006B	5.3	106.2	233.6	404.8	1841	61	26	1349	5.12	33.8	< 5	9	114	2.72	2.4	6.4	115	0.86	0.279	28	142	1.37	144	0.13	< 3	1.97	0.03	0.41	< 2	0.6	34	1.6	< .2	7.8	8
31007A	4.2	95.1	128.3	429.2	1411	49	17	1144	3.9	41.3	< 5	4	60	2.88	2.8	8.3	105	0.76	0.209	23	131	1.1	100	0.1	< 3	1.78	0.01	0.14	4	0.2	39	0.7	< .2	7.3	10
31007B	4.5	116.2	124.5	419	1842	46	17	1267	3.04	35.3	< 5	2	63	4.08	2.9	4.7	75	0.72	0.166	24	76	0.97	108	0.08	< 3	1.84	0.01	0.12	< 2	0.3	73	1	< .2	6.7	13
31008A	3.7	103.1	125.9	449.1	1732	49	17	1052	3.49	40.5	< 5	2	57	2.92	3	6.5	89	0.72	0.195	22	108	1.05	98	0.09	4	1.8	0.01	0.12	< 2	0.3	53	0.7	< .2	6.9	135
31008B	3.5	106.7	124.9	426	2022	46	16	1036	3.14	39.1	< 5	< 2	57	3.32	2.8	6.3	79	0.7	0.178	22	88	0.99	99	0.08	< 3	1.8	0.01	0.1	< 2	0.2	61	0.8	< .2	6.6	10
31009A	3	92.7	158.9	342.4	1889	48	19	1067	3.17	67.7	< 5	< 2	67	2.71	4.2	6.9	76	0.59	0.139	17	90	0.95	99	0.08	4	1.7	0.02	0.1	< 2	0.2	67	0.6	< .2	6.5	12
31009B	2.7	95.9	159	402.1	1887	49	19	1167	3.22	61.7	< 5	2	65	3.48	3.8	6.9	77	0.61	0.154	18	95	0.95	99	0.08	< 3	1.76	0.01	0.1	< 2	0.2	59	0.8	< .2	6.7	27
31010A	2.5	80.2	163.3	343.5	1680	49	18	958	3.31	58.6	< 5	2	63	2.22	3.5	7.5	81	0.61	0.169	17	109	0.96	89	0.08	< 3	1.68	0.01	0.09	< 2	0.3	45	0.7	< .2	6.7	62
31010B	2.7	92.2	166.7	323.6	2310	49	20	1062	3.02	64.9	< 5	< 2	64	2.92	3.8	6.4	71	0.58	0.149	16	78	0.97	97	0.07	< 3	1.79	0.02	0.09	< 2	0.4	65	0.7	< .2	7	13
31011A	3	103.6	198.2	377.5	2423	51	23	1369	3.47	97.1	< 5	2	63	2.5	4.8	7.1	77	0.54	0.173	16	84	0.98	98	0.08	< 3	1.8	0.01	0.13	< 2	0.3	58	0.7	< .2	7.1	14
31011B	2.8	98.3	214	387.7	2175	53	21	1170	3.83	104.3	< 5	3	62	2.09	5.3	7	88	0.58	0.194	16	109	1.04	94	0.09	< 3	1.73	0.01	0.15	< 2	0.4	45	0.7	< .2	7.1	218
STANDAR	25.8	132.8	102.6	287	2099	32	18	1072	4.39	74.8	19	21	60	2.09	8.5	22.8	78	0.69	0.11	17	57	1.22	264	0.15	25	2.41	0.05	0.74	21	2.7	432	0.5	2.1	[illegible]	31
31012A	4	108	249.7	302.2	1265	53	20	783	4.06	165	< 5	3	76	1.45	8.2	4.2	93	0.54	0.202	20	119	0.91	96	0.11	3	1.79	0.02	0.13	< 2	0.3	53	0.6	< .2	6.4	127
31012B	4.1	105.7	219.3	290.7	1220	52	21	850	3.82	156.3	< 5	< 2	82	1.4	6.6	3.7	88	0.49	0.178	18	96	0.91	104	0.11	3	1.92	0.02	0.13	< 2	0.4	42	0.6	< .2	6.4	21
31013A	2.2	91.2	141.2	247.3	1523	41	18	926	3.21	62.7	< 5	< 2	54	1.97	3.9	7	76	0.54	0.168	17	82	0.8	87	0.07	3	1.57	0.01	0.09	< 2	0.2	54	0.4	< .2	5.5	10
31013B	2.4	97.2	158	263.3	1831	43	20	1003	3.3	65.9	< 5	< 2	58	2.2	4.6	7.5	78	0.56	0.173	18	80	0.85	92	0.08	< 3	1.69	0.01	0.09	< 2	0.3	49	0.5	< .2	6.4	25
32008	8	43	51.9	143.2	985	27	14	804	3.77	11.5	9	5	56	0.68	1.3	0.5	87	0.69	0.091	29	46	0.79	283	0.09	3	2.96	0.01	0.13	< 2	< .2	65	< .3	< .2	8.9	10
RE 32008	8.1	41.9	49.3	141.4	988	27	14	801	3.76	11.7	5	4	55	0.69	1.3	0.5	87	0.69	0.092	29	47	0.78	282	0.09	4	2.96	0.01	0.13	< 2	0.2	69	< .3	< .2	9.3	2

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @ LOTUS FORMAT

To Troymin Resources

Acme file # 97-4783 Received: AUG 25 1997

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
52500N 50700	4.9	25.3	60	106.2	230	20	9	636	2.98	8.4	< 5	11	31	0.37	1.6	0.7	70	0.39	0.1	23	34	0.57	131	0.09	< 3	1.86	0.01	0.09	< 2	0.4	37	< .3	< .2	6.8	4
52500N 50800	1.2	15.4	41.2	107.2	243	22	9	726	2.55	21	< 5	8	21	0.97	0.7	0.2	65	0.28	0.069	17	33	0.57	110	0.1	< 3	1.58	0.02	0.07	< 2	0.2	15	< .3	< .2	4.8	10
52500N 50900	1.4	19	37.3	64.3	102	24	11	499	3.02	10	< 5	8	31	0.42	0.5	0.2	75	0.24	0.057	16	37	0.66	116	0.11	< 3	2.05	0.02	0.07	< 2	0.2	24	< .3	< .2	6.5	1
52500N 51000	2.2	14.4	28.6	41.5	129	14	6	221	3.49	9.6	< 5	7	19	0.29	0.6	0.4	109	0.17	0.042	10	31	0.39	66	0.16	< 3	1.65	0.01	0.05	< 2	0.2	31	< .3	< .2	11.7	2
52400N 50700	9.7	19.3	37.6	63.5	631	18	7	350	4.34	9.7	< 5	7	18	0.71	0.9	0.4	109	0.16	0.04	10	35	0.52	72	0.16	< 3	2.07	0.01	0.07	< 2	0.3	67	< .3	< .2	12.5	< 1
52400N 50800	2.2	14.5	65.2	195.5	480	15	7	824	2.46	166.9	< 5	9	29	0.95	2.2	0.7	60	0.38	0.081	22	33	0.53	107	0.09	< 3	1.64	0.02	0.08	< 2	0.3	30	< .3	< .2	6.2	7
52400N 50900	1.8	16.1	47.4	77.8	169	22	12	582	3.28	15.3	< 5	9	36	0.55	0.7	0.3	77	0.38	0.085	14	35	0.6	125	0.12	< 3	1.91	0.01	0.08	< 2	< .2	29	< .3	< .2	7	< 1
52400N 51000	2.9	14.6	43	61.7	177	17	10	470	3.05	10.3	< 5	10	32	0.26	0.6	0.4	81	0.34	0.072	13	31	0.53	99	0.13	< 3	1.62	0.01	0.09	< 2	0.2	< 10	< .3	< .2	7.6	1
52300N 50700	7.1	20.3	57.9	81.3	240	19	9	417	3.84	8.9	< 5	9	22	0.79	0.9	0.5	101	0.23	0.077	12	35	0.6	96	0.14	< 3	1.92	0.01	0.09	< 2	0.2	33	< .3	< .2	10.2	3
52300N 50800	5.2	23.7	200.2	285.2	515	20	14	866	3.6	151	< 5	9	47	2.56	2.2	0.5	85	0.46	0.103	16	39	0.72	174	0.1	< 3	2.32	0.01	0.12	< 2	0.2	44	< .3	< .2	8.6	5
52300N 50900	9.5	16.1	91.3	159	896	14	6	477	3.02	103.8	< 5	6	32	0.95	1.2	0.5	90	0.21	0.055	11	29	0.39	108	0.12	< 3	1.56	0.01	0.07	< 2	0.2	32	< .3	< .2	9.6	5
52300N 51000	2.9	23	697.3	193.3	10485	18	7	390	3.28	17	< 5	6	23	0.8	48.6	2	74	0.24	0.076	13	32	0.57	102	0.1	< 3	2.03	0.01	0.09	< 2	0.3	126	0.3	< .2	7.6	10
52200N 50800	4.6	41.5	512.6	291.5	2884	17	11	700	3.11	125.8	< 5	6	42	2.21	5	1.2	70	0.37	0.084	17	31	0.58	206	0.08	< 3	1.81	0.02	0.09	< 2	0.3	24	0.3	< .2	6.7	15
52200N 50900	3.2	57	656.3	1204.6	6796	19	9	811	2.87	345	6	7	42	6.86	5.6	0.8	61	0.49	0.072	19	36	0.59	225	0.08	< 3	2.23	0.01	0.08	< 2	0.5	138	0.4	< .2	6.1	32
52200N 51000	4.8	22.7	74.2	158.2	643	22	10	559	3.45	15.9	< 5	6	41	0.33	1.1	0.7	83	0.49	0.075	15	39	0.64	210	0.1	< 3	2.55	0.01	0.09	< 2	0.3	24	< .3	< .2	8.8	4
RE 52200	5.2	23.1	70.9	158.9	650	23	10	556	3.55	20	< 5	6	42	0.39	1.1	0.8	84	0.51	0.078	15	40	0.66	215	0.1	< 3	2.62	0.01	0.09	< 2	0.2	30	< .3	< .2	9.1	3
52100N 50600	6.9	21.1	57.1	188	231	12	8	529	3.51	41.7	< 5	30	33	0.7	2	0.8	83	0.44	0.091	31	42	1.04	163	0.13	< 3	2.27	0.01	0.29	< 2	0.6	< 10	< .3	< .2	9.7	4
52100N 50700	6.6	19.4	51.7	111.9	581	17	9	511	4.01	12.5	< 5	11	21	0.89	1.5	1.2	110	0.25	0.059	15	37	0.69	94	0.15	< 3	1.9	0.01	0.1	< 2	0.2	10	< .3	< .2	11.1	2

52100N 50 300	4.2	36.4	1268.5	474.7	10704	16	7	425	3.05	531.9	< 5	8	37	3.22	26	3.9	65	0.42	0.091	18	31	0.58	127	0.08	< 3	1.83	0.01	0.09	< 2	0.4	154	< .3	< .2	6.1	145
52100N 50 900	3.3	27.5	218.3	502.7	1486	13	6	513	2.64	127.6	< 5	5	39	4.33	2.6	0.8	72	0.42	0.046	18	28	0.51	203	0.09	< 3	1.91	0.01	0.09	< 2	0.2	16	< .3	< .2	9.1	10
52100N 51 000	5.2	21.7	118.4	161.9	997	17	8	406	3.15	35.9	< 5	4	33	1.19	1.4	1.7	83	0.37	0.061	15	32	0.57	141	0.11	< 3	1.89	0.01	0.1	< 2	< .2	22	< .3	< .2	8.7	5
51900N 50 750	2.5	16.9	49.4	91.3	336	16	9	816	2.78	9.2	< 5	8	18	0.49	0.8	0.9	71	0.25	0.059	12	30	0.45	93	0.11	< 3	1.41	0.01	0.06	< 2	0.2	27	< .3	< .2	5.7	2
STANDAR	25.8	131.6	102.6	284.7	2359	33	17	1050	4.61	70.9	16	21	59	2.15	10.2	22.6	79	0.69	0.118	18	60	1.22	265	0.15	26	2.4	0.05	0.73	20	3	457	0.8	2	7.5	49

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @ LOTUS FORMAT

To Troymin Resources

Acme file # 97-5101 Page 1 Received: SEP 5 1997 * 204 samples in this disk file.

ELEMENT	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
SAMPLES	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
13037	12.1	4487.3	8587.7	15888.7	9692	12	11	6869	2.66	41.4	< 5	4	74	143.56	21.8	< .4	37	0.44	0.202	39	12	0.03	48	< .01	5	0.67	0.01	0.22	32	2.1	339	1.5	< .8	2	63
13038	0.6	70	207.3	543.2	646	13	8	3983	2.95	20.4	< 5	3	121	4.73	1.2	0.1	38	4.32	0.127	28	18	1.53	60	< .01	< 3	0.96	0.01	0.24	3	0.5	< 10	< .3	< .2	5.5	2
13039	26.6	2740.6	25320.4	1490.2	99999	6	4	298	1.24	17.4	< 5	< 2	208	16.98	127.8	< 1.0	10	0.07	0.038	3	11	0.05	26	< .01	3	0.26	< .01	0.13	8	3.3	2841	< 3.0	< 2.0	< 5.0	266
13040	2.8	9683	18995.5	1038.6	99999	< 1	< 1	47	2.89	< 4.5	< 5	< 2	463	29	434.3	26.1	3	< .01	< .001	4	< 1	< .01	16	< .01	4	0.1	< .01	0.02	< 2	2.8	2171	< 2.7	< 1.8	< 4.5	1593
13041	11.6	820.9	24458.8	1043.6	27784	5	2	259	5.74	88.7	< 5	< 2	242	2.35	3.9	2.1	56	0.04	0.037	20	19	0.02	107	0.01	8	0.27	0.01	0.07	19	2.7	134	< 3.3	< 2.2	< 5.5	550
13042	6.4	3898.3	21453.8	833	99999	< 1	< 1	50	3.01	< 5.0	< 5	< 2	541	39.36	276.1	19.1	8	< .01	0.006	6	1	< .01	3	< .01	< 3	0.15	< .01	0.05	2	2.8	3326	3	< 2.0	< 5.0	999
13043	11.4	853.9	13927	1173.1	31158	4	1	374	9.44	83.4	< 5	< 2	48	2.7	21.4	1.7	48	0.03	0.043	8	11	0.02	38	0.01	8	0.24	0.01	0.05	43	1.6	185	< 2.4	< 1.6	< 4.0	790
13044	6.3	594.4	23911.5	1414.9	99999	4	1	101	3.12	69.5	< 5	< 2	339	9.94	184.1	1.6	11	0.01	0.009	9	11	< .01	26	< .01	< 3	0.08	0.01	0.03	12	3.3	1895	< 3.3	< 2.2	< 5.5	884
13045	< .1	30.8	677.2	1030.2	666	16	10	1794	3.13	5	< 5	4	68	7.51	2.4	0.1	74	1.73	0.183	49	25	1.34	44	0.01	6	1.92	0.03	0.13	< 2	0.3	15	< .3	< .2	7.9	12
13046	30.7	258	2173.7	961.5	16166	17	9	4230	4.21	71.2	< 5	10	22	1.27	35.9	2.4	79	0.49	0.203	22	23	1.08	45	< .01	4	1.79	0.01	0.15	< 2	< 1.0	63	< 1.5	< 1.0	9.9	47
13047	1.1	19.6	111.7	113.6	806	18	15	788	4.36	4.8	< 5	8	32	0.25	0.3	0.6	62	0.57	0.206	24	20	1.79	87	< .01	< 3	2.19	0.03	0.17	< 2	0.2	< 10	< .3	0.2	10.1	2
13048	281.3	891.1	1784.3	250.6	99999	12	36	1317	6.39	25.2	< 5	2	8	0.45	24.3	62.3	72	0.18	0.083	18	22	0.51	33	0.01	< 3	1.16	< .01	0.15	171	2	148	< 1.5	1.9	6.3	131
13049	165.1	5486.1	3337.3	264.6	99999	14	31	1195	6.1	56	12	2	6	0.78	89.4	3796.3	64	0.12	0.055	18	24	0.53	17	0.01	3	1.14	0.01	0.12	99	< 1.8	1115	< 2.7	4.7	5.2	1662
13050	218.9	42900.1	19665	1167.6	99999	10	17	226	12.91	441.9	159	< 2	5	9.79	473.3	2907.3	16	0.03	0.054	20	21	0.02	10	< .01	3	0.14	0.01	0.02	64	12.4	718	12.3	34.8	25.4	2440
13051	25.3	1205.1	837.9	193.3	99999	10	12	606	2.03	55.4	< 5	4	14	0.44	7.2	305	33	0.33	0.153	32	19	0.37	41	< .01	3	0.79	0.01	0.22	8	1	71	0.6	1.1	4.7	82
13052	14.1	1364.6	663.8	439.4	14324	20	53	1657	8.21	51	< 5	5	31	1.66	8.7	12.2	107	0.28	0.163	41	33	0.89	48	0.01	< 3	1.53	0.01	0.13	103	0.4	< 10	0.4	0.3	7.5	41
13053	3.6	57.7	30	55.5	973	39	17	432	3.88	2.5	< 5	14	97	0.14	0.3	1.7	153	1.17	0.215	32	69	1.6	260	0.24	< 3	1.93	0.2	0.87	4	0.8	< 10	< .3	< .2	8.9	2
13054	3.8	24.3	41.6	48.9	855	7	7	646	2.45	1.4	< 5	20	47	0.13	0.2	2.4	40	1.37	0.087	40	22	0.78	34	0.01	< 3	1.14	0.04	0.07	2	< .2	< 10	< .3	< .2	8.2	< 1
13055	0.9	12.6	13.1	94.8	281	8	11	760	3.36	1.2	< 5	5	63	0.11	0.2	0.3	42	2.23	0.148	42	20	1.05	37	< .01	5	1.34	0.04	0.1	< 2	< .2	< 10	< .3	< .2	10.6	1
13056	0.5	19.7	17	133.6	306	26	14	937	3.56	2	< 5	3	46	0.21	0.2	0.5	63	1.09	0.206	44	37	1.44	72	< .01	5	2.15	0.03	0.17	< 2	< .2	< 10	< .3	< .2	10.5	1
RE 13056	0.5	19.8	16.1	137.8	304	26	14	975	3.68	1.3	< 5	5	47	0.2	0.2	0.5	63	1.12	0.214	44	34	1.48	72	< .01	6	2.14	0.03	0.16	< 2	< .2	< 10	< .3	< .2	10.4	1
13057	1.2	45.8	15.5	123.2	536	24	14	760	3.64	2.8	< 5	4	66	0.15	0.3	0.3	75	1.56	0.205	45	34	1.65	76	0.01	< 3	2.41	0.04	0.16	< 2	< .2	< 10	< .3	< .2	15.3	2
13058	10.3	82.4	24.8	142	784	24	14	799	3.74	1.8	< 5	4	115	0.09	0.2	0.1	96	2.34	0.216	42	38	1.47	89	0.01	5	1.92	0.04	0.13	< 2	< .2	17	< .3	< .2	12.7	1
13059	1	99.5	14.8	77.2	287	27	13	591	3.43	5.1	< 5	4	44	0.09	0.3	< .1	65	0.82	0.231	51	35	1.42	66	0.01	3	2.16	0.04	0.23	< 2	< .2	< 10	< .3	< .2	10.7	1
13060	0.5	141.7	17.4	101.5	1466	21	10	662	2.75	4	< 5	5	49	0.15	0.4	0.1	78	1.2	0.202	39	42	1.13	46	0.01	4	1.54	0.03	0.17	2	< .2	< 10	< .3	< .2	8.2	< 1
13061	0.8	96.7	42.5	126.5	604	22	11	875	3.09	3.4	< 5	4	83	0.13	0.5	< .1	74	2.52	0.194	40	37	1.09	31	0.01	5	1.65	0.08	0.09	< 2	< .2	< 10	< .3	< .2	10	< 1
13062	11.1	388.5	2456.8	7624.9	13808	17	11	13888	3.33	175.1	< 5	4	100	56.97	33.1	< 1.2	10	6	0.055	6	8	2.17	12	< .01	6	0.24	0.01	0.13	< 2	5.4	270	< 3.6	< 2.4	< 6.0	251
13063	0.9	70.8	39.9	261	1405	21	15	1471	3.66	3.9	< 5	4	88	0.33	0.5	< .1	48	2.92	0.2	45	22	1.24	41	< .01	5	2.17	0.02	0.22	< 2	0.2	< 10	< .3	< .2	8.1	5
13064	10.5	30.2	366.6	803.3	3717	23	14	11986	4.58	114.5	< 5	3	155	8.34	3.3	0.9	11	11.53	0.065	7	1	4.18	8	< .01	8	0.33	0.01	0.17	2	0.5	1103	0.4	< .2	0.8	74
13065	4.1	72.8	11.5	114.5	474	16	10	855	3	2.8	< 5	2	92	0.18	0.4	< .1	58	2.93	0.173	37	20	1.29	60	< .01	< 3	2.01	0.02	0.17	< 2	< .2	< 10	< .3	< .2	8.2	1
13066	4.8	64.7	953	2430.2	3180	15	13	5664	3.57	101.7	< 5	6	32	35.16	6.5	0.3	31	0.98	0.204	36	13	0.33	19	< .01	3	0.76	0.01	0.3	< 2	0.7	97	0.7	< .2	1	33
13067	1.3	116.4	83.4	133.6	407	23	12	875	3.31	8.4	< 5	4	78	0.28	0.5	< .1	72	1.93	0.208	43	29	1.17	63	0.01	< 3	1.87	0.04	0.14	2	< .2	< 10	< .3	< .2	10.5	1
13068	6	606.4	1476.1	84.1	1492	18	8	893	2.09	1.7	< 5	3	128	1.33	0.8	< .1	46	3.39	0.198	34	31	0.72	45	0.01	5	1.31	0.05	0.13	2	0.2	25	< .3	< .2	6.1	2
13069	0.7	74.1	21.3	101.7	290	22	14	850	3.63	1.6	< 5	2	138	0.19	0.4	< .1	88	2.17	0.211	45	27	1.31	67	0.01	< 3	1.82	0.05	0.18	< 2	< .2	< 10	< .3	< .2	11.1	1
STANDAR	26.3	132	100	262.9	2100	33	19	1096	4.56	77.8	16	19	62	2.18	10.3	23.2	74	0.7	0.115	21	60	1.18	283	0.12	25	2.4	0.05	0.72	21	3.1	449	0.9	2.2	8	528
13070	2.7	2446.1	3826.2	2005.8	17279	16	12	42177	4.55	42.8	< 5	7	210	18.26	35.1	4.2	27	0.25	0.063	15	10	0.16	265	< .01	< 3	0.76	0.01	0.19	3	< 1.2	753	< 1.8	< 1.2	3	34
13071	23	2759.2	3401.6	506.2	99999	3	2	85	4.41	311.8	< 5	2	5	5.9	816.9	132.1	3	0.02	0.011	7	4	0.01	25	< .01	< 3	0.14	0.01	0.08	2	< 1.2	1124	< 1.8	3.6	< 3.0	1228
13072	36.1	11258.9	16789	1119.1	99999	4	2	66	5.08	263.7	19	6	14	21.31	1055.7	141.1	4	0.02	0.025	17	5	0.02	11	< .01	< 3	0.24	< .01	0.12	< 2	2.7	1863	3.7	6.6	< 5.0	439
13073	59.7	1831.5	25795.6	176.3	99999	3	1	95	3.99	479.7	< 5	2	76	3.61	825.6	5	11	0.03	0.073	3	17	0.01	36	< .01	< 3	0.12	0.01	0.3	4	3.8	564	< 3.3	< 2.2	< 5.5	1024
13074	1	64.7	806.7	130.5	1232	17	12	1326	3.03	10.9	< 5	6	56	0.15	8.1	0.6	65	0.79	0.173	15	22	1.34	17	0.12	3	1.6	0.03	0.04	< 2	0.3	16	< .3	< .2	9.7	5
13075	0.6	26.3	221	138.8	766	6	2	783	0.61	13.8	< 5	9	14	0.69	2.9	2	11	0.53	0.252	31	10	0.24	34	0.01	24	0.49	0.01	0.18	3	0.2	76	< .3	< .2	1.8	3
13076	1	59.2	269.3	228.1	733	17	14	1366	3.16	8.6	< 5	9	87	0.35	4.3	0.4	65	1.18	0.212	25	21	1.49	32	0.06	< 3	1.85	0.03	0.08	< 2	0.2	14	< .3	< .2	8.5	3
13077	0.4	304	62.4	164.6	247	23	16	1329	3.78	12.1	< 5	6	40	0.48	1.3	0.6	77	0.64	0.208	25	24	1.86	36	< .01	< 3	2.27	0.02	0.06	< 2	< .2	15	< .3	< .2	10.8	1
13078	32.9	12.7	99.5	59.5	567	4	23	533	4.52	24	< 5	29	25	0.15	1.8	2.5	37	0.38	0.091	24	19	0.66	30	0.1	5	1.13	0.05	0.23	5	0.6	27	< .3	0.4	8.3	3
13079	3.5	7	114.2	38.1	565	2	5	310	3.05	6.1	< 5	27	73	< .01	1	1.3	32	0.15	0.072	23	17	0.49	21	0.1	4	0.76	0.04	0.09	3	< .2	11	< .3	< .2	6.3	2
13080	20.8	2911.6	966.1	112.2	99999	1	13	93	10.04	1000.1	11	10	30	16.57	2510.1	1250	24	0.02	0.055	5	11	0.01	18	0.01	5	0.28	0.01	0.12	65	1.2	10052	2.6	2.2	7.9	1118
13081	1.3	37.5	46.2	64.2	1593	6	4	439	2.34	5	< 5	29	33	0.3	7.7	9.4	58	0.36	0.085	25	19	0.71	85	0.19	< 3	0.97	0.03	0.35	3	0.3	39	< .3	0.2	5.4	4
13082	9.1	1787.9	52.8	43.7	23410	13	5	230	2.31	11.2	< 5	10	25	0.19	12.2	19.7	114	0.63	0.197	24	26	0.38	32	0.19	< 3	0.5	0.06	0.2	5	< .6	103	1.8	1.3	3.6	31
13083	4.8	209.1	1983.6	651.4	41017	76	26	2958	4.47	17.1	< 5	6	57	2.62	1.4	56	100	2.11	0.249	24	149	1.92	21	0.08	< 3	1.91	0.02	0.07	< 2	< .2	62	1.5	0.6	8	38
13084	1.2	11.6	300.8	659.6	2128	64	33	2946	7.94	23.8	< 5	8	34	3.23	1.1	2.6	135	1.98	0.23	32	147	2.94	29	0.04	< 3	3.39	0.01	0.09	< 2	0.2	< 10	2	< .2	17.2	4
13085	19	81.6	445.5	357.2	15138	33	17	2497	6.79	27.3	< 5	8	22	1.72	1.3	44.9	111	1.07	0.203	25	68	1.71	24	0.04	< 3	2.1	0.03	0.13	< 2	0.3	36	1.5	0.4	12	13
RE 13085	19	80.8	431.9	352.4	14935	33	17	2469	6.68	24.2	< 5	8	21	1.66	1.3	45.7	111	1.05	0.203	25	66	1.69	23	0.03	< 3	2.04	0.03	0.12	< 2	0.3	35	1.5	0.3	11.7	11
13086	5.9	1589	228.2	131.6	13750	19	6	5457	2.52	9.7	< 5	18	5	0.57	2.5	20.8	17	0.14	0.052	28	22	0.32	25	0.01	4	0.85	0.01	0.11	5	< .2	33	1.8	1.3	4.5	59
13087	3.8	91.8	275.8	1040.2	2498	73	33	5613	4.04	6.3	< 5	7	40	11.63	0.8	3.1	84	1.99	0.248	22	130	2.49	17	0.01	7	2.35	0.01	0.08	< 2	< .2	15	1.1	< .2	12.6	11
13088	6.4	35.1	144.4	230.9	668	12	5	3181	2.49	3.5	< 5	24	8	0.59	4	1.9	27	0.18	0.068	37	32	0.72	29	0.01	3	1.18	0.01	0.17	3	0.3	13	0.3	< .2	7.5	4
13089	1.5	59.2	116.1	930.4	2699	129	29	9412	12.86	107.6	< 5	11	9	1.12	6.3	24.5	100	0.6	0.156	16	339	3.76	17	0.01	< 3	4.3	< .01	0.1	< 2	< .2	21	3.1	< .2	18.6	13
13090	3.1	86.3	545.2	206.7	1376	51	18	1216	3.94	16.6	< 5	6	57	0.79	1.5	0.7	107	1.14	0.269	23	143	1.57	31	0.19	5	1.5	0.09	0.22	2	0.4	20	0.4	< .2	8.1	2
13091	1	4.9	16.3	77.8	72	31	9	730	2.78	12.8	< 5	5	50	0.14	2.6	0.5	73	1.14	0.274	19	138	0.87	14	0.19	3	0.94	0.05	0.04	2	< .2	11	< .3	< .2	5.1	2
13092	5.1	49.6	4840.5	1629.5	5347	8	5	929	0.95	11.3	< 5	< 2	97	7.51	6.4	1.1	30	3.14	0.059	4	19	0.13	2	0.05	6	0.46	0.01	0.01	4	< 1.0	32	< 1.5	< 1.0	2.5	5
13093	1.1	18.8	222.3	457.5	480	63	23	2925	4.11	8.9	< 5	4	103	1.53	1.3	0.3	91	3.6	0.2	15	111	2.89	19	0.06	5	2.81	0.01	0.03	< 2	< .2	14	< .3	< .2	11.1	1
13094	1.7	249.7	150.1	606.4	887	50	32	1298	3.83	14	< 5	5	41	2.11	1.2	1.4	98	1.31	0.285	19	157	1.97	26	0.19	< 3	1.65	0.05	0.08	< 2	< .2	17	0.3	< .2	9.4	3
13095	2.5	87.5	65.3	170.2	692	56	19	628	4.39	11.8	< 5	6	48	0.64	0.7	0.3	118	1.18	0.279	22	182	1.99	44	0.19	< 3	1.61	0.07	0.11	< 2	< .2	18	< .3	< .2	9	1
13096	1.9	5.9	32.6	32.8	104	6	9	276	2	14.6	< 5	29	16	0.11	0.6	0.4	47	0.37	0.085	26	23	0.56	78	0.18	3	0.82	0.05	0.31	4	< .2	< 10	< .3	< .2	4.3	2
13097	3.1	25.7	37.9	35.4	167	6	9	298	2.17	13.1	< 5	31	47	0.16	0.5	0.6	48	0.39	0.084	29	23	0.55	81	0.19	< 3	0.78	0.06	0.34	4	0.5	< 10	< .3	< .2	5.4	2
13098	13.7	8.8	39.8	8.8	1142	2	< 1	56	1.43	5.1	< 5	26	9	0.04	0.4	2.3	3	0.01	0.015	18	12	0.02	140	< .01	12	0.22	0.01	0.35	5	0.4	< 10	1	< .2	0.8	2
13099	5.8	6.1	41.4	9.6	546	4	4	83	2.31	5	< 5	5	4	0.04	1	1.5	2	0.01	0.006	12	19	0.02	19	< .01	33	0.08	0.04	0.14	7	0.2	< 10	1.7	0.3	< .5	3
13100	3	10	100	8.8	785	2	1	63	1.53	8	< 5	14	13	0.02	0.5	3.6	5	0.01	0.012	35	11	0.02	128	< .01	6	0.28	0.01	0.49	5	0.4	23	1	< .2	1.3	7
13101	80.5	8.4	20.2	9.6	380	3	3	44	1.94	25.8	< 5	6	5	0.12	0.5	3.4	2	0.02	0.009	12	11	0.01	55	< .01	< 3	0.2	0.01	0.3	8	0.7	21	2.2	0.3	1.2	11
23033	29.6	9288	21826.5	6319.5	53680	11	25	20764	8.27	161.5	< 5	7	525	40.91	105.3	33.6	17	0.04	0.038	9	6	0.02	18	< .01	8	0.59	0.01	0.14	7	< 2.4	815	< 3.6	< 2.4	< 6.0	3420
23034	1.3	508.9	10847.3	1960	21864	11	7	4010	3.34	34.6	< 5	7	38	3.28	7.5	12.9	21	0.3	0.137	21	16	0.03	23	< .01	10	0.44	< .01	0.18	3	< 2.2	80	< 3.3	< 2.2	< 5.5	97
STANDAR	26	136.3	105	275.1	2034	34	19	1082	4.69	80	15	21	62	2.15	10.2	22.2	76	0.7	0.116	19	63	1.2	268	0.13	32	2.49	0.05	0.73	22	2.7	421	0.7	2.1	7.6	475
23035	6.8	244.1	848.1	1274.3	4783	9	8	4446	2.73	48.3	< 5	6	41	12.46	2.4	6.9	29	1.64	0.16	34	12	0.23	12	< .01	6	0.56	< .01	0.19	< 2	0.9	47	1.1	< .2	1.5	18
23036	0.4	115.1	161.3	590.3	1885	17	10	2229	2.88	54.9	< 5	5	66	11.58	4.3	0.7	44	2.92	0.189	38	18	0.87	14	< .01	4	1.39	0.03	0.13	< 2	0.2	36	0.4	< .2	6.1	4
23037	4.1	271.1	16227.3	270.6	12749	2	< 1	115	1.09	40.4	< 5	3	120	1.6	9.7	1.4	15	0.08	0.207	24	3	0.03	32	< .01	3	0.66	0.01	0.3	2	2.1	74	< 2.4	< 1.6	< 4.0	61

23038	0.8	32.7	123.3	277.3	324	14	9	1459	3.05	21.1	5	4	73	4.45	3.1	0.2	70	2.04	0.164	34	21	1.42	31	< .01	4	1.72	0.02	0.07	< 2	0.2	35	< .3	< .2	8.5	3
23040	0.6	170.3	3409	1089.4	2196	16	13	5634	4.31	38.8	< 5	10	28	1.94	2.5	1.6	72	0.53	0.205	37	19	1.27	28	< .01	8	2.07	< .01	0.18	< 2	< 1.0	47	< 1.5	< 1.0	8.7	6
23041	5.5	119.2	95	137.7	635	6	6	447	2.32	19.2	< 5	16	43	2.56	0.4	0.4	31	1.7	0.075	45	18	0.7	22	< .01	< 3	1.11	0.03	0.08	< 2	< .2	20	0.4	0.2	8.2	< 1
23042	< .3	4757.4	190.5	22.4	5032	4	1	189	1.88	46.8	< 5	< 2	21	0.7	9.7	21.1	12	0.28	0.026	4	16	0.05	15	0.01	< 3	0.2	< .01	0.02	24	< .6	64	< .9	1.1	< 1.5	2
23052	4.8	32.3	97.2	75.7	861	35	14	252	5.09	19.8	< 5	7	31	0.18	0.8	3	63	0.63	0.217	22	82	0.93	27	0.18	3	1.04	0.05	0.06	2	< .2	21	< .3	0.2	6.5	< 1
23053	249.7	1096.7	22800.8	229.5	99999	24	17	6732	1.39	256.3	14	3	132	2.17	709.8	17	7	0.06	0.046	5	9	0.02	77	< .01	< 3	0.19	< .01	0.07	3	4	1935	< 3.0	< 2.0	< 5.0	107
23054	1.3	43.4	735.6	17.3	1351	5	2	1192	0.77	10.5	< 5	< 2	90	0.18	3.7	0.3	14	7.9	0.052	19	14	0.19	6	< .01	< 3	0.33	0.02	0.03	4	0.3	10	< .3	< .2	1.7	< 1
23055	1.1	69.2	1385.4	262	1939	17	10	1052	3.2	27.3	< 5	7	62	3.01	2.9	1.8	61	1.83	0.186	41	18	1.46	40	< .01	3	1.82	0.02	0.1	< 2	0.3	< 10	0.4	< .2	7	1
23056	1.1	175	178.5	173.8	525	19	13	933	3.47	13.8	< 5	9	99	0.44	2.2	0.7	85	1.17	0.196	34	31	1.46	57	0.06	3	1.55	0.03	0.07	< 2	0.2	15	< .3	< .2	11.4	1
23057	47.9	5736.8	24896.9	1120.6	99999	< 1	2	100	2.45	2881.2	30	4	14	336.23	8076.9	593.9	10	0.04	0.034	10	12	0.02	61	< .01	< 3	0.17	0.01	0.14	3	4.8	13514	4.4	< 1.8	< 4.5	1810
23058	8.9	163.1	902.8	165.6	29634	4	3	76	1.66	472.4	6	2	8	4.16	217.9	10.4	3	0.02	0.007	2	19	0.01	32	< .01	5	0.05	< .01	0.03	16	0.5	230	1	0.2	0.5	1275
23059	5.1	3284.4	23149.7	977.7	99999	3	1	434	5.16	1134.1	< 5	< 2	6	7.82	864.2	1	4	0.02	0.017	2	18	0.01	13	< .01	< 3	0.1	0.01	0.08	8	3.6	1329	3.2	< 1.0	< 2.5	1752
23060	1.9	47.9	602.8	187.3	4099	13	10	902	2.44	32.5	< 5	6	29	1.97	44.4	2.9	33	1.18	0.187	23	22	1.33	31	< .01	< 3	1.51	0.01	0.11	2	0.4	1012	< .3	0.2	8.5	22
23061	35.1	2091.9	3964.2	693.4	10545	10	8	2399	2.74	232.5	< 5	6	70	10.29	589.4	8.2	31	2.92	0.226	32	16	0.96	462	< .01	4	0.67	0.01	0.13	< 2	1.9	120	< 1.5	< 1.0	3.2	10
23062	25.4	1634.2	3747.4	637.5	12996	14	10	1877	3.08	183	< 5	8	33	7.1	473.6	6.8	44	1.18	0.217	41	13	0.61	43	< .01	4	1.05	0.01	0.14	< 2	1.6	72	< 2.4	< 1.6	5.9	4
23063	4.2	46.6	119.2	24.1	697	2	2	231	1.24	9.4	12	31	13	0.31	7.1	1.7	13	0.18	0.07	46	14	0.04	26	< .01	5	0.39	0.01	0.22	5	0.4	23	< .3	< .2	1.3	5
23064	2.5	25.3	47.6	24.8	294	3	10	399	4.15	6.4	8	27	23	0.24	2.9	1.1	15	0.27	0.077	40	14	0.05	29	0.01	< 3	0.5	0.01	0.15	23	0.4	15	< .3	< .2	2.1	2
RE 23064	3.5	23.6	48.5	23.6	334	3	10	383	3.97	8	6	26	22	0.28	3.3	1.4	18	0.26	0.074	38	10	0.05	28	0.01	3	0.48	0.01	0.14	23	0.5	20	< .3	< .2	2.8	3
23065	12.4	2542.7	769.8	34.6	57214	4	44	1002	8.8	101.1	36	20	60	< .01	62.9	146.6	25	0.02	0.07	5	13	0.01	11	< .01	19	0.28	< .01	0.18	1799	30.8	77	13.2	51.6	6.2	61400
23066	4.3	16.7	61	156.5	2141	9	18	6919	9.1	5.7	< 5	11	23	0.32	2.7	29.3	26	0.07	0.018	36	12	0.04	17	0.01	10	0.28	< .01	0.13	81	0.6	25	0.4	< .2	3.8	51
23067	2	15	50	602.7	430	61	29	8243	8.87	10	< 5	9	13	0.19	1.9	59.6	113	0.51	0.199	29	158	2.77	45	0.03	4	3.43	0.01	0.1	10	0.3	18	0.6	< .2	16.6	54
23068	1	32.9	77.2	39.3	2412	14	15	612	3.66	6.7	< 5	11	16	0.24	5.2	6.1	32	0.36	0.147	25	11	0.09	20	0.01	25	0.4	< .01	0.15	20	0.5	11	< .3	2	1.6	16
23069	< .3	1687.9	611.1	69.1	40863	10	3	1495	3.44	85.5	5	14	13	0.15	14.5	1199.7	14	0.54	0.237	17	21	0.05	13	0.02	128	0.18	0.01	0.04	31	0.9	76	< .9	10.4	< 1.5	196
23070	4.9	82.2	188.3	10.3	11730	4	8	53	3.62	30.2	< 5	2	7	0.21	42	28.7	1	0.01	0.011	5	14	0.01	22	< .01	4	0.1	< .01	0.11	6	0.4	147	0.3	0.2	< .5	1446
23071	7.8	6	174	8.5	604	3	1	51	1.37	19.2	< 5	9	51	0.06	1.5	3.7	5	0.02	0.017	18	13	0.02	130	< .01	8	0.35	0.01	0.39	5	0.8	17	0.5	0.3	2.4	21
23072	9.6	9.5	168	4.9	806	2	1	62	1.92	23.4	< 5	11	14	0.07	1.1	8.5	8	0.02	0.012	36	12	0.02	65	0.01	9	0.28	0.01	0.34	14	1	15	< .3	0.7	1.6	19
23073	4.8	24	39.4	62.3	268	5	9	276	2.12	10.9	7	27	13	0.06	0.8	3	42	0.21	0.073	19	22	0.57	55	0.19	3	1.08	0.03	0.25	5	0.4	14	< .3	0.2	4	7
23074	3.5	5.9	12.1	9.7	< 30	3	1	111	0.48	4.7	12	9	5	0.05	0.4	0.4	2	0.17	0.081	20	16	0.02	8	< .01	32	0.22	0.01	0.11	4	0.4	< 10	< .3	< .2	0.7	1
23075	3.3	13.5	31.5	56.5	< 30	21	6	332	2.8	8.2	7	29	50	0.07	0.9	1.3	77	0.64	0.179	34	52	0.86	139	0.32	< 3	0.75	0.04	0.62	4	0.8	18	< .3	< .2	4.7	3
23076	0.5	30.2	42.2	114.5	< 30	88	13	798	5.21	31.6	< 5	9	197	0.01	1.5	0.5	128	1.89	0.375	42	177	2.08	557	0.47	< 3	1.42	0.03	1.39	2	1	< 10	< .3	< .2	8.7	4
23077	4.5	17.1	35.1	57.6	91	7	5	258	1.4	2.3	8	21	17	0.14	1	1.1	39	0.46	0.073	30	23	0.71	72	0.11	< 3	0.87	0.04	0.35	6	0.5	< 10	0.4	< .2	3.6	3
23078	5.8	90.5	52.6	36	497	6	15	132	3.4	7.6	< 5	23	11	0.06	2.2	1.9	16	0.31	0.073	14	15	0.31	27	0.04	3	0.49	0.03	0.11	5	0.3	< 10	1.6	0.4	2.3	8
STANDAR	24.4	126.7	103	261.5	2100	32	18	1056	4.56	75.1	19	20	60	2.15	8	22.3	70	0.71	0.108	19	59	1.2	256	0.12	32	2.4	0.05	0.71	22	3.1	434	0.8	2.4	8	520
23079	119.7	33.1	65.7	11.7	545	5	15	76	4.7	7	10	11	7	0.06	0.8	2.3	7	0.07	0.038	6	9	0.09	17	0.03	24	0.19	0.03	0.07	6	0.9	40	2.9	0.4	2.8	5
23080	4	29.8	25	76.5	342	5	3	1181	2.52	13.3	9	18	53	0.54	2	2.2	58	1.53	0.077	32	18	0.93	43	0.01	3	1.27	0.03	0.08	3	0.3	28	< .3	< .2	8.4	3
33032	1.7	281.8	16.1	161.3	203	20	9	2014	3.57	11.8	< 5	6	65	0.59	1.7	1.1	86	2.29	0.18	30	16	1.71	28	0.01	5	1.9	0.02	0.06	< 2	< .2	30	< .3	< .2	13.5	4
33033	90	111.1	53.7	414.2	7272	9	16	629	13.07	48.9	< 5	< 2	4	0.21	6.3	12	63	0.02	0.024	2	< 1	0.01	29	0.02	9	0.13	< .01	0.05	173	0.3	139	< .3	0.3	2.9	65
33034	< .1	173.2	21794.6	791.4	99999	2	< 1	160	0.16	39.8	7	< 2	65	68.52	687.8	45	< 1	0.02	0.001	< 1	7	0.01	11	< .01	< 3	0.01	< .01	< .01	3	1.4	1441	1.1	< .2	< .5	27
33035	104.9	41053.1	15927.8	1067.8	99999	28	60	162	15.6	342.6	140	< 2	6	11.75	564	5105.1	15	0.04	0.042	17	8	0.03	139	< .01	8	0.16	< .01	0.02	64	12.1	1414	16.7	26.5	11.9	3360
33036	0.8	193.1	279.5	186.5	3598	69	18	1093	3.63	7.3	< 5	8	80	4.86	2.2	14.9	95	2.63	0.213	32	106	1.78	59	0.01	3	1.8	0.02	0.07	< 2	< .2	31	< .3	< .2	9.3	4
33037	5.4	1653	1226.3	446.2	34872	14	17	1255	6.81	43.5	9	6	48	3.82	14.2	14	64	1.05	0.151	25	13	0.85	41	0.02	< 3	1.28	0.02	0.1	71	< .2	88	0.4	0.5	7.2	63
33038	72.3	2785.1	5496.8	625.4	97203	5	17	717	11.1	299.6	17	< 2	33	12.53	193	169.3	67	0.08	0.056	15	11	0.05	69	0.02	8	0.34	0.01	0.14	96	< 2.2	273	< 3.3	< 2.2	< 5.5	1028
33039	< .5	30.7	618.4	3548.3	2534	18	12	7022	4.56	32.6	< 5	5	93	24.78	1.5	3.8	49	0.44	0.182	40	13	0.04	60	< .01	< 3	0.68	< .01	0.19	3	< 1.0	21	< 1.5	< 1.0	< 2.5	19
33040	1.4	24.5	60.9	29.6	808	6	30	165	1.49	7.8	6	29	6	0.39	1.3	3.7	9	0.16	0.072	25	13	0.02	38	0.02	28	0.33	0.01	0.2	10	0.3	< 10	< .3	1.5	1.2	79
33041	3.1	19.6	23.1	60.1	637	4	9	461	3.02	3.1	6	29	11	0.23	1	3.8	32	0.23	0.079	42	15	0.29	33	0.01	8	0.81	0.01	0.19	6	0.3	12	< .3	< .2	4.2	4
33042	15	15099.8	242.8	29.7	58636	3	21	136	9.84	130.4	103	25	6	0.59	17.7	1061.6	40	0.02	0.183	4	14	0.01	11	0.05	70	0.21	0.01	0.02	136	< 2.4	130	< 3.6	9.1	< 6.0	1640
33043	1.1	41.3	72.9	502	1644	42	14	8285	9.33	5.5	< 5	9	18	1.31	1.9	5.4	121	0.65	0.196	29	106	1.7	37	0.02	< 3	2.47	< .01	0.1	< 2	0.3	12	0.4	< .2	12.9	8
33044	2.4	269.3	317	122.2	1616	5	3	256	1.69	13.5	16	30	19	0.41	2.3	11.5	12	0.09	0.049	14	21	0.11	36	0.01	23	0.48	0.01	0.16	6	0.2	42	3.1	< .2	3.1	11
33045	1.7	64.5	28	88.8	285	62	23	419	4.18	5.8	< 5	9	29	0.19	0.2	1.3	127	0.87	0.235	23	140	2.31	56	0.21	< 3	1.59	0.05	1	2	0.4	40	0.3	< .2	8.6	3
33046	1.6	37.6	74	229.3	465	64	28	811	4.63	9.9	< 5	9	36	0.31	0.9	2.5	123	1.02	0.231	24	168	2.03	71	0.24	8	1.58	0.05	0.65	3	0.8	44	< .3	< .2	10.9	4
RE 33046	1.3	39.4	74.2	239	430	66	29	852	4.84	8.2	< 5	8	39	0.26	0.7	2.5	130	1.07	0.238	25	168	2.13	77	0.25	5	1.66	0.05	0.68	3	0.8	43	< .3	< .2	10.9	4
33047	2.1	63	14.7	52.8	237	65	18	319	3.77	2.6	< 5	10	32	0.2	0.3	0.6	122	0.81	0.222	24	124	1.53	49	0.24	4	1.18	0.06	0.96	2	0.8	26	< .3	< .2	5.8	3
33048	6.2	53.3	126.4	185	5600	12	10	1230	2.24	5.9	5	23	12	1.12	1	14	22	0.6	0.061	36	26	0.52	41	0.04	9	0.9	0.02	0.28	4	1	10	0.3	< .2	5.3	10
33049	0.8	42.8	95.4	191.8	294	68	24	513	4.46	10.7	< 5	7	41	0.82	0.5	0.4	108	1.11	0.222	18	170	2.05	36	0.23	7	1.6	0.05	0.43	2	0.3	72	< .3	< .2	10.2	7
33050	0.8	26.9	22.1	108.2	168	37	12	411	2.72	4.9	< 5	13	22	0.29	0.4	0.3	61	0.73	0.168	22	118	1.06	33	0.13	4	1.01	0.04	0.2	3	0.2	38	< .3	< .2	6.6	1
33051	1.3	25.9	45.6	115.9	293	11	5	781	1.5	2.4	< 5	27	18	0.28	0.8	0.6	24	0.55	0.059	35	26	0.83	33	0.04	< 3	1	0.03	0.07	2	< .2	16	< .3	< .2	6.9	1
33052	3.9	38.1	41	225.8	363	9	4	5219	2.44	4.5	< 5	16	41	0.82	3	1.6	28	0.92	0.052	21	20	0.85	48	0.06	86	1.41	0.01	0.17	14	0.4	18	0.3	< .2	7.9	3
33053	1	23.5	54.4	128.9	302	28	10	582	2.31	7.9	< 5	18	27	0.8	1	0.6	50	0.71	0.132	27	54	1.24	25	0.12	5	1.03	0.04	0.11	2	< .2	< 10	< .3	< .2	7.6	< 1
33054	1.1	21.6	26.6	124.9	< 30	61	24	469	4.34	5.5	< 5	11	43	0.49	0.5	0.1	96	0.97	0.212	24	122	1.85	67	0.21	7	1.46	0.06	0.55	2	2.2	16	1	< .2	12.2	2
33055	1.2	29	23.1	85.8	271	11	5	587	1.6	3.7	< 5	28	19	0.15	0.7	0.7	24	0.37	0.06	36	26	0.64	48	0.05	3	0.93	0.04	0.09	3	< .2	19	< .3	< .2	7	3
33056	0.8	15.6	16.5	75.2	161	12	5	587	1.62	3.2	< 5	25	21	0.22	1	0.3	26	0.47	0.067	38	30	0.66	21	0.09	< 3	0.94	0.03	0.08	3	< .2	16	< .3	< .2	7.3	2
33057	2.9	54.2	105.2	122	1271	11	7	638	1.46	8.7	< 5	25	25	0.65	2	2	21	0.44	0.058	30	25	0.53	28	0.03	4	0.91	0.03	0.11	4	0.2	31	0.4	< .2	7	7
33058	0.4	27.3	129.8	411.2	645	32	12	1621	2.61	5.2	< 5	15	32	1.96	1.1	0.3	59	1.17	0.115	26	75	1.62	21	0.09	5	1.62	0.03	0.05	2	< .2	12	< .3	< .2	8.9	4
33059	4.2	14.8	52.3	116.3	2149	26	88	4417	11.15	30.7	< 5	6	11	0.53	1.6	8.6	17	0.03	0.012	1	7	0.03	10	0.01	23	0.15	0.01	0.04	38	< .2	35	4	0.2	3.7	164
33060	10.7	135.3	282.8	336.7	3630	8	5	3191	1.76	18.7	< 5	23	6	0.81	14.7	10	14	0.13	0.081	44	16	0.26	22	< .01	7	0.77	< .01	0.14	4	0.3	38	2.3	< .2	3.7	10
33061	0.6	137.5	16.5	104.1	469	64	18	541	3.43	5.3	< 5	7	111	0.26	0.7	0.4	96	1.62	0.262	22	102	2.37	627	0.15	8	2.28	0.06	0.96	2	1.5	< 10	0.7	< .2	9.1	7
33062	2.3	8.4	17.9	46.7	396	4	17	434	3.92	12	8	28	10	0.04	0.3	1	44	0.14	0.063	15	18	0.65	55	0.04	9	1.14	0.03	0.43	13	0.8	< 10	0.6	< .2	4.2	7
33063	21.3	101.5	143.9	18.3	7129	3	92	148	2.91	13.6	6	15	6	0.07	2.9	10.9	5	0.05	0.039	7	11	0.02	38	< .01	4	0.26	0.01	0.2	5	0.7	19	1	0.8	1	8
STANDAR	26	136.5	104	271.5	2081	34	19	1110	4.65	76.4	26	22	62	2.05	10.6	23	75	0.72	0.112	20	58	1.2	246	0.13	33	2.41	0.05	0.72	20	2.9	429	0.7	2.1	7.2	456
33064	1.4	17.5	21.9	36	183	6	7	272	2.26	1.8	< 5	29	15	0.16	0.3	0.4	55	0.27	0.071	32	26	0.71	64	0.1	5	0.88	0.04	0.48	3	0.9	36	< .3	< .2	5.7	< 1
33065	3	4.6	21.8	28.2	173	3	2	217	1.63	4.9	< 5	25	22	0.06	0.6	0.7	51	0.28	0.077	24	23	0.59	88	0.18	3	0.83	0.04	0.41	5	0.7	22	< .3	< .2	5	1
33066	3.1	11	29.5	32.1	89	5	5	220	2.12	5.5	< 5	30	14	0.04	0.7	0.6	52	0.27	0.078	22	24	0.59	63	0.18	7	0.78	0.05	0.41	5	0.7	18	0.3	< .2	5.2	1
33067	1.8	8.3	16.5	37.8	92	7	5	319	2.18	1.9	< 5	27	14	0.11	0.3	0.3	61	0.35	0.08	29	29	0.49	61	0.19	5	0.72	0.06	0.36	5	0.5	23	< .3	< .2	4.5	1
33068	2	15.2	42.6	83.2	206	6	6	564	2.04	1.3	< 5	32	24	0.61	0.9	0.2	53	0.48	0.074	29	27	0.48	54	0.11	7	0.81	0.04	0.29	5	0.4	14	< .3	< .2	4.3	1
33069	1.3	5	19.3	33.8	49	6	5	267	2.15	2.6	< 5	31	26	0.15	0.2	0.3	62	0.34	0.083	35	25	0.48	68	0.19	< 3	0.85	0.04	0.32	4	0.5	21	< .3	< .2	4.9	< 1
33070	4.6	30.5	34.5	24	304	3	12	98	1.24	6.7	8	13	4	0.1	0.8	1.1	7	0.05	0.021	13	16	0.02	27	< .01	9	0.24	0.01	0.14	9	0.4	< 10	< .3	0.2	0.6	1
33071	7.4	10.1	22.2	34.5	87	5	4	339	1.93	3.5	< 5	28	10	0.08	1	0.4	57	0.28	0.075	28	25	0.62	58	0.18	6	0.86	0.04	0.39	5	0.7	13	< .3	< .2	4.7	< 1
33072	5.6	9	32.5	37.8	102	5	4	297	2.08	5	< 5	29	65	0.1	0.4	1.3	56	0.36	0.077	31	24	0.43	62	0.19	6	0.54	0.06	0.33	8	0.4	16	< .3	< .2	4.1	< 1
33073	3.3	7.3	23.5	32.2	< 30	5	5	330	1.83	3.1	< 5	28	11	0.18	0.3	0.2	52	0.29	0.074	29	22	0.39	56	0.13	7	0.6	0.04	0.27	4	0.4	17	< .3	< .2	4.1	1
33074	1.3	6.5	16.1	28	< 30	5	4	245	1.86	2.7	< 5	38	17	0.05	0.3	0.2	55	0.29	0.071	30	22	0.42	56	0.19	4	0.57	0.05	0.32	6	0.4	< 10	< .3	< .2	4.6	< 1
33075	3.4	7	22.6	53.4	129	5	3	369	1.92	5.2	< 5	33	17	0.15	0.6	0.9	61	0.37	0.086	29	24	0.7	83	0.2	3	0.96	0.04	0.41	5	0.6	< 10	< .3	< .2	6	< 1
33076	8.1	21.4	33.9	64.4	179	6	6	450	2.01	4.1	< 5	29	38	0.44	0.3	0.2	57	0.38	0.078	35	21	0.47	59	0.19	5	0.57	0.06	0.37	7	0.6	20	< .3	< .2	4.6	< 1
33077	3.7	5	25.5	64.7	87	5	4	357	2.58	4	< 5	29	27	0.25	0.4	0.6	65	0.41	0.076	34	25	0.68	68	0.19	< 3	0.96	0.04	0.39	4	0.5	< 10	< .3	< .2	5.8	2
33078	3.8	6.8	19.8	26	46	5	4	246	2.05	5.6	< 5	29	28	0.08	0.5	0.3	61	0.34	0.08	32	28	0.45	66	0.2	4	0.54	0.06	0.35	7	0.4	19	< .3	< .2	4.2	< 1
33079	1.5	7.8	18.1	38.6	41	5	5	253	1.79	2.9	5	28	17	0.1	< .2	0.1	52	0.28	0.07	29	20	0.44	70	0.18	4	0.58	0.05	0.34	4	0.4	< 10	< .3	< .2	4.2	< 1

RE 33079	1.3	8.3	14.1	37.2	31	5	5	244	1.73	3	< 5	27	17	0.08	0.2	0.1	-49	0.27	0.067	29	25	0.43	67	0.16	5	0.55	0.05	0.32	4	0.5	< 10	< .3	< .2	3.9	< 1
33080	1.3	11.2	23.8	39	< 30	6	6	261	1.88	3.1	< 5	28	21	0.11	0.2	0.1	52	0.32	0.073	32	23	0.43	73	0.19	4	0.61	0.05	0.33	6	0.3	< 10	< .3	< .2	4.1	< 1
33081	1.7	4.7	19.5	34.6	55	5	5	271	1.86	1.7	< 5	28	41	0.13	0.2	0.1	55	0.3	0.074	31	24	0.44	65	0.17	3	0.63	0.04	0.33	3	0.4	< 10	< .3	< .2	4	1
33082	6.5	10	28.1	38.4	87	5	3	324	2.08	10	< 5	29	14	0.06	0.6	0.6	58	0.33	0.078	32	25	0.51	67	0.2	4	0.76	0.05	0.35	7	0.4	14	< .3	< .2	5.1	< 1
33083	4.1	87.4	1560.7	100.4	9648	5	21	872	3.47	19.7	< 5	25	8	0.23	4.2	7.1	43	0.2	0.072	26	21	0.61	83	0.05	< 3	1.2	0.02	0.34	3	0.9	49	< .3	0.3	5.3	2
33084	1.5	7.4	25	35.8	93	5	5	268	1.91	3.6	< 5	28	14	0.12	0.4	0.3	54	0.31	0.075	29	23	0.43	61	0.19	4	0.73	0.04	0.32	5	0.4	< 10	< .3	< .2	4.9	< 1
33085	2.1	6.5	22.7	38.5	122	5	5	430	1.93	3.7	< 5	30	17	0.16	0.3	0.3	56	0.36	0.081	33	22	0.45	58	0.19	4	0.58	0.04	0.29	4	0.3	< 10	< .3	< .2	4.4	< 1
33086	1.1	5.2	21.7	40.1	73	5	5	310	1.96	5.6	< 5	27	11	0.1	0.4	0.3	57	0.31	0.08	28	26	0.44	62	0.19	3	0.69	0.04	0.32	5	0.3	< 10	< .3	< .2	4.2	< 1
33087	2	6.4	23.1	37.2	93	5	4	272	1.91	4.7	< 5	32	26	0.09	0.3	0.2	54	0.31	0.076	32	23	0.46	70	0.19	5	0.6	0.04	0.33	4	0.4	10	< .3	< .2	4.4	< 1
33088	2.9	10.6	22.8	37.4	79	5	4	241	1.75	8.2	< 5	27	16	0.08	0.3	0.1	50	0.28	0.07	30	21	0.42	66	0.18	4	0.59	0.04	0.32	6	0.4	10	< .3	< .2	4.5	< 1
33089	2.4	9.8	19	33.4	51	5	4	246	1.88	5.3	< 5	28	14	0.06	0.2	0.1	57	0.32	0.078	33	25	0.42	62	0.19	4	0.62	0.05	0.3	6	0.4	< 10	< .3	< .2	4.5	< 1
33090	2.2	8.1	19.4	28	82	5	3	214	1.68	8.6	7	32	8	0.06	0.7	0.5	42	0.23	0.06	28	23	0.38	45	0.12	5	0.55	0.04	0.27	6	0.3	22	< .3	< .2	3.2	1
33091	11.2	11.2	23.8	37.5	134	6	5	323	1.8	9.1	13	25	12	0.09	0.4	0.4	60	0.28	0.062	23	23	0.85	76	0.18	< 3	1.08	0.04	0.53	5	1	11	< .3	< .2	6.2	< 1
33092	3.8	91.5	25	40.7	236	6	16	309	2.13	16.2	6	31	18	0.12	1.3	1.1	47	0.35	0.082	28	20	0.61	102	0.18	5	0.85	0.04	0.35	5	0.4	< 10	0.3	< .2	4.5	3
33093	11.5	91.1	18.6	49.2	225	6	8	241	1.85	14.9	8	25	19	0.12	0.6	2.3	44	0.31	0.073	24	17	0.66	90	0.18	4	0.95	0.04	0.36	4	0.6	13	0.3	< .2	4.7	6
33094	2.6	7.3	26.8	33	75	5	3	230	1.92	4.4	10	32	17	0.28	0.4	0.3	53	0.39	0.077	35	23	0.45	61	0.18	5	0.65	0.04	0.27	6	0.3	17	< .3	< .2	4.1	2
STANDAR	27.5	136	101.9	271.4	2109	34	19	1099	4.53	74.1	21	22	60	1.93	8.9	22.7	75	0.72	0.11	21	62	1.2	242	0.13	33	2.41	0.05	0.71	20	3	428	0.5	2.2	7.6	447
L050N 37.	1.6	7.2	17.7	23.8	30	5	4	175	1.9	3.3	< 5	30	14	0.07	0.2	< .1	50	0.27	0.073	24	22	0.41	85	0.18	4	0.6	0.05	0.38	4	0.3	11	< .3	< .2	5.1	< 1
L050N 12.	2.4	9.4	26.8	36.9	40	4	4	185	1.98	2.4	< 5	26	19	0.09	0.2	0.1	56	0.28	0.077	23	22	0.43	83	0.16	5	0.71	0.05	0.36	4	0.2	19	< .3	< .2	5.5	< 1
L050N 000	1.3	4.6	19.6	33.8	71	4	4	245	2	2.6	< 5	45	47	0.13	0.2	0.2	51	0.33	0.076	26	26	0.41	78	0.15	6	0.63	0.05	0.36	5	0.3	20	< .3	< .2	4.6	2
L050N 12.	5.1	17.2	36.5	18.8	107	3	4	251	2.17	32.6	6	49	17	0.05	1.8	0.7	45	0.28	0.093	27	24	0.48	57	0.18	6	0.73	0.05	0.35	3	1.5	13	< .3	< .2	6.5	< 1
L050N 37.	2.5	15.9	49.7	43.8	138	4	3	194	1.61	5.8	< 5	46	20	0.1	0.5	0.5	40	0.16	0.055	21	19	0.4	66	0.1	6	0.66	0.05	0.35	10	0.4	12	< .3	< .2	5.2	< 1
L025N 37.	2.5	7.4	23.1	37	54	5	5	249	2.1	3.7	< 5	33	16	0.08	0.3	0.1	56	0.34	0.082	24	25	0.42	67	0.18	6	0.59	0.06	0.34	4	0.3	11	< .3	< .2	5.4	< 1
L025N 12.	1.4	6.7	21.9	35.1	< 30	4	4	214	1.73	3.4	6	33	33	0.07	0.2	0.1	42	0.28	0.066	26	24	0.35	72	0.12	6	0.68	0.05	0.25	5	0.4	12	< .3	< .2	4.3	1
L025N 000	2.1	4.4	23.9	29.8	96	3	2	223	1.85	4.9	< 5	30	14	0.06	0.4	0.5	49	0.28	0.08	20	23	0.58	93	0.2	9	0.77	0.04	0.43	4	0.5	< 10	< .3	< .2	5.6	1
L025N 12.	2.1	5	22.2	38.2	58	5	5	251	2.11	3.2	< 5	35	12	0.03	0.3	0.3	58	0.3	0.075	23	24	0.47	68	0.18	7	0.64	0.05	0.38	4	0.3	11	< .3	< .2	4.9	1
L025N 37.	1.3	4.7	20.2	43.7	74	5	4	272	2.09	3.1	< 5	33	11	0.12	0.3	0.2	55	0.29	0.077	24	25	0.46	71	0.18	6	0.73	0.05	0.36	5	0.4	< 10	< .3	< .2	5.9	3
L0+00 37.5	1.9	5.3	24	39	55	5	4	260	1.96	2.1	< 5	33	13	0.08	0.3	0.2	51	0.29	0.074	24	21	0.45	69	0.18	8	0.66	0.05	0.35	3	0.3	< 10	< .3	< .2	6.1	1
L0+00 12.5	0.8	5.4	30.9	42.2	36	5	5	244	2.1	2.9	< 5	29	34	0.16	0.2	0.1	54	0.32	0.08	20	24	0.44	75	0.18	8	0.64	0.05	0.36	3	0.4	< 10	< .3	< .2	5.1	< 1
L0+00 0+0	1.5	4.8	29	58.9	< 30	5	5	354	1.65	6.7	< 5	33	7	0.13	0.5	0.1	37	0.19	0.052	19	17	0.32	48	0.12	8	0.78	0.04	0.26	3	0.2	< 10	< .3	< .2	4.7	< 1
RE L0+00	1.3	4.3	26.1	56.3	< 30	5	5	340	1.58	5.5	< 5	32	7	0.1	0.4	0.1	35	0.18	0.049	19	16	0.31	45	0.11	10	0.74	0.04	0.25	3	0.2	11	< .3	< .2	3.7	< 1
L0+00 12.5	1.1	6.4	31.9	56.7	64	5	5	342	2.29	3.3	< 5	41	12	0.11	0.4	0.3	62	0.32	0.085	25	28	0.53	66	0.18	6	0.78	0.04	0.4	4	0.4	17	< .3	< .2	6.8	1
L0+00 021	8.3	7.6	21.7	33.3	65	5	4	203	1.81	5.3	5	23	15	0.09	0.5	0.3	37	0.3	0.063	24	20	0.44	150	0.19	8	0.61	0.06	0.35	4	0.4	16	< .3	< .2	5.8	< 1
L0+00 37.5	1.9	6.1	27.3	43	139	4	3	302	2.16	9.8	7	31	15	0.1	0.7	0.7	55	0.29	0.068	20	25	0.81	75	0.2	7	1.13	0.04	0.5	4	0.7	< 10	< .3	< .2	8.1	3
L100 000	8.4	28.1	91.8	202.9	697	11	5	1294	1.73	5.2	< 5	28	14	1.13	1	0.9	30	0.33	0.067	23	34	0.85	49	0.09	9	1	0.03	0.24	3	1	10	< .3	< .2	7.8	7
L100 25	1	99.9	72.2	209.4	1475	63	19	1189	3.51	14	< 5	8	32	0.47	1.1	2.2	100	0.85	0.259	18	175	2.01	37	0.19	5	1.66	0.04	0.3	2	0.5	< 10	< .3	< .2	11.1	4
L100 50	1.9	90.8	403.9	697.3	1496	46	17	1020	3.98	11	5	8	67	3.1	0.7	0.4	114	1.24	0.257	18	165	1.63	49	0.21	3	1.61	0.11	0.36	< 2	0.9	34	< .3	< .2	10.5	3
L100 75	4.2	32.5	140.1	435.1	845	59	28	2924	4.07	13	< 5	6	87	1.54	0.9	0.9	72	2.54	0.23	10	129	2.84	14	0.09	6	2.61	0.02	0.02	< 2	< .2	13	< .3	< .2	11.4	1
L100 100	14.1	90.7	184.9	571.3	1586	74	31	1402	5.4	19.3	< 5	12	58	4.07	1	0.9	150	1.33	0.251	18	160	3.22	110	0.31	5	3.28	0.17	2.04	3	5.2	26	0.7	< .2	16	3
L150 000	8.2	80.1	451.5	566	1380	10	6	2646	2.11	5.4	< 5	30	10	2.33	8.1	2.3	19	0.19	0.067	38	22	0.57	36	0.01	9	0.95	< .01	0.19	< 2	0.7	< 10	0.3	< .2	6.5	4
L170 000	1.5	88.6	80.1	301.6	1065	11	5	1529	1.78	3.1	< 5	29	12	1.01	2.7	0.5	19	0.39	0.067	31	28	0.45	32	0.01	9	0.82	0.01	0.18	2	0.6	14	0.3	< .2	5.9	3
L170 25	0.5	11.7	27.1	98.5	1392	5	5	457	6.98	38.7	8	10	19	0.4	3.8	4.1	25	0.04	0.031	3	16	0.04	13	0.02	4	0.34	< .01	0.18	102	0.6	70	1.4	0.4	7.8	264
L170 50	1	27.6	306.5	494.6	1055	123	20	525	3.17	9.9	7	7	74	4.61	1.1	0.3	89	1.24	0.273	16	279	2.61	96	0.19	5	2.2	0.09	0.6	< 2	0.8	15	< .3	< .2	10.5	6
L170 75	1.7	43.5	78.5	222	517	56	19	614	3.81	13.1	< 5	8	37	1.54	0.7	0.1	99	1.12	0.271	20	150	2.12	81	0.19	5	1.55	0.05	0.14	< 2	0.3	24	< .3	< .2	10.6	6
L170 100	2.8	10	29.7	189.1	343	28	9	1391	2.04	18.9	< 5	7	99	2.59	3.9	0.4	51	1.89	0.255	12	120	0.87	32	0.12	12	1.17	0.03	0.01	2	< .2	10	< .3	< .2	8.5	< 1
L200 000	19.6	87.4	317.1	1344.8	4864	15	10	5992	2.6	23.8	< 5	20	41	5.43	3.2	9.3	26	0.87	0.128	24	54	0.55	34	0.04	194	1.15	< .01	0.1	2	0.6	27	0.4	< .2	5.9	207
L200 25	1.5	26.8	78.1	543	847	32	19	3932	5.34	20.8	< 5	14	13	0.89	1.3	3.1	66	0.55	0.181	21	80	1.48	33	0.01	7	2.07	< .01	0.18	2	0.4	26	0.6	< .2	10.3	12
L200 50	3.1	6.7	16.8	38.5	671	3	3	317	13.65	18.6	< 5	3	3	0.2	5.6	0.7	52	0.03	0.007	< 1	12	0.03	13	0.01	9	0.12	< .01	0.06	81	0.3	44	< .3	0.2	3.9	6
L200 75	0.6	58	139.5	293.8	1210	99	19	825	3.09	9	< 5	7	32	0.77	0.4	0.3	85	0.94	0.271	16	203	2.56	53	0.15	8	1.91	0.03	0.27	< 2	0.4	10	0.3	< .2	11.6	8
L200 100	0.9	87.2	149.6	204.9	983	105	21	1002	3.64	15.4	7	7	120	0.65	1.2	0.3	98	1.3	0.264	14	236	2.8	106	0.18	7	2.3	0.11	0.54	2	1	26	< .3	< .2	11.8	3
STANDAR	24.9	132.2	103.4	265	2055	33	19	1096	4.57	65.7	19	24	57	2.15	8	23.4	73	0.72	0.116	17	62	1.18	270	0.13	29	2.39	0.05	0.74	18	2.9	427	0.5	2.1	8.7	454

Correlation - Rock Samples n=286 ; 1997 Prospector Mt. Troymin Resources																																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
Mo	1.000																																		
Cu	0.452	1.000																																	
Pb	0.316	0.432	1.000																																
Zn	0.013	0.072	0.280	1.000																															
Ag	0.459	0.459	0.736	0.082	1.000																														
Ni	-0.080	-0.058	-0.130	0.053	-0.163	1.000																													
Co	0.180	0.172	-0.070	0.074	0.004	0.479	1.000																												
Mn	0.026	0.019	0.085	0.342	0.032	0.149	0.163	1.000																											
Fe	0.289	0.446	0.114	0.024	0.168	0.284	0.486	0.195	1.000																										
As	0.103	0.172	0.317	0.026	0.344	-0.038	0.048	0.066	0.025	1.000																									
U	0.434	0.909	0.255	0.002	0.317	-0.048	0.184	-0.041	0.425	0.115	1.000																								
Th	-0.199	-0.182	-0.372	-0.152	-0.385	-0.323	-0.266	-0.206	-0.337	-0.181	-0.065	1.000																							
Sr	-0.008	0.091	0.454	0.103	0.220	0.077	0.005	0.252	0.077	-0.025	-0.069	-0.327	1.000																						
Cd	0.064	0.155	0.486	0.630	0.337	0.008	0.017	0.215	-0.019	0.437	0.074	-0.216	0.093	1.000																					
Sb	0.099	0.242	0.490	0.055	0.486	-0.083	-0.056	-0.028	0.032	0.566	0.105	-0.186	-0.023	0.598	1.000																				
Bi	0.438	0.768	0.259	0.002	0.458	-0.050	0.198	-0.018	0.362	0.147	0.704	-0.158	-0.085	0.106	0.191	1.000																			
V	-0.116	-0.143	-0.314	-0.104	-0.356	0.589	0.275	-0.040	0.349	-0.264	-0.101	-0.039	0.033	-0.188	-0.194	-0.117	1.000																		
Ca	-0.111	-0.100	-0.156	0.091	-0.209	0.206	0.085	0.365	0.054	-0.098	-0.085	-0.272	0.230	-0.002	-0.096	-0.099	0.215	1.000																	
P	-0.167	-0.135	-0.261	0.055	-0.306	0.697	0.382	0.046	0.118	-0.045	-0.084	-0.315	0.077	-0.048	-0.172	-0.129	0.638	0.276	1.000																
La	-0.162	-0.108	-0.306	-0.075	-0.401	0.001	-0.082	-0.077	-0.096	-0.241	-0.084	0.238	-0.065	-0.157	-0.136	-0.127	0.316	0.136	0.279	1.000															
Cr	-0.134	-0.105	-0.190	-0.039	-0.210	0.879	0.346	0.043	0.236	-0.080	-0.079	-0.219	0.016	-0.076	-0.088	-0.086	0.673	0.147	0.657	0.008	1.000														
Mg	-0.165	-0.160	-0.288	-0.034	-0.336	0.688	0.308	0.160	0.257	-0.200	-0.124	-0.203	0.106	-0.126	-0.159	-0.137	0.752	0.551	0.627	0.208	0.727	1.000													
Ba	-0.044	-0.007	-0.082	-0.053	-0.145	0.165	-0.028	0.034	-0.014	-0.054	-0.020	0.108	0.101	-0.036	-0.009	-0.003	0.260	0.040	0.189	0.176	0.145	0.170	1.000												
Ti	-0.181	-0.150	-0.284	-0.137	-0.339	0.274	0.008	-0.200	-0.089	-0.213	-0.091	0.409	-0.077	-0.178	-0.146	-0.138	0.807	-0.044	0.288	0.153	0.440	0.313	0.348	1.000											
B	-0.012	-0.027	-0.039	0.091	0.092	-0.094	-0.050	0.067	-0.225	0.368	0.005	-0.054	-0.099	0.056	-0.002	0.030	-0.427	-0.158	-0.044	-0.311	-0.130	-0.303	-0.180	-0.280	1.000										
Al	-0.149	-0.170	-0.314	-0.065	-0.365	0.632	0.303	0.120	0.275	-0.236	-0.135	-0.135	0.055	-0.157	-0.191	-0.138	0.765	0.319	0.631	0.365	0.647	0.872	0.145	0.215	-0.340	1.000									
Na	-0.178	-0.162	-0.298	-0.134	-0.357	0.272	0.038	-0.206	-0.087	-0.204	-0.113	0.269	-0.026	-0.177	-0.154	-0.151	0.612	0.050	0.327	0.204	0.398	0.382	0.281	0.726	-0.270	0.335	1.000								
K	-0.106	-0.134	-0.198	-0.093	-0.257	0.311	0.026	-0.100	-0.023	-0.184	-0.095	0.239	-0.020	-0.117	-0.113	-0.122	0.512	-0.018	0.244	0.193	0.377	0.332	0.526	0.668	-0.253	0.270	0.578	1.000							
W	0.106	0.092	-0.004	-0.015	0.139	-0.063	0.190	-0.013	0.265	0.006	0.193	-0.011	-0.009	-0.020	-0.003	0.083	-0.033	-0.089	-0.077	-0.110	-0.068	-0.098	-0.062	-0.086	0.003	-0.090	-0.094	-0.040	1.000						
Tl	0.307	0.501	0.402	0.140	0.428	-0.047	0.204	0.065	0.314	0.179	0.525	-0.152	0.123	0.212	0.198	0.384	-0.136	-0.061	-0.122	-0.195	-0.085	-0.128	-0.007	-0.121	-0.013	-0.188	-0.128	0.005	0.808	1.000					
Hg	0.177	0.229	0.469	0.039	0.491	-0.099	-0.047	0.003	0.118	0.485	0.155	-0.184	0.179	0.603	0.685	0.243	-0.173	-0.069	-0.184	-0.193	-0.113	-0.141	-0.050	-0.152	-0.064	-0.174	-0.161	-0.098	0.012	0.200	1.000				
Se	0.171	0.280	0.310	0.086	0.348	0.008	0.196	0.202	0.114	0.314	0.229	-0.214	0.034	0.201	0.188	0.323	-0.266	-0.106	-0.038	-0.314	-0.078	-0.206	-0.099	-0.213	0.294	-0.236	-0.220	-0.187	0.149	0.339	0.096	1.000			
Te	0.323	0.608	0.241	0.035	0.410	-0.080	0.183	0.008	0.322	0.103	0.855	-0.112	-0.001	0.041	0.081	0.498	-0.169	-0.093	-0.123	-0.172	-0.108	-0.170	-0.081	-0.161	0.098	-0.190	-0.172	-0.125	0.711	0.857	0.086	0.300	1.000		
Ga	0.090	0.240	-0.020	-0.019	-0.085	0.516	0.340	0.024	0.462	-0.097	0.253	-0.177	0.112	-0.064	-0.035	0.139	0.686	0.190	0.498	0.257	0.542	0.706	0.081	0.238	-0.359	0.784	0.325	0.186	0.000	0.132	-0.017	-0.037	0.123	1.000	
Au+	0.042	0.130	0.108	0.003	0.193	-0.055	0.152	-0.008	0.179	0.087	0.190	-0.023	0.047	0.030	0.164	0.079	-0.078	-0.059	-0.085	-0.099	-0.057	-0.091	-0.054	-0.082	-0.009	-0.095	-0.087	-0.040	0.950	0.839	0.058	0.171	0.722	0.014	1.000

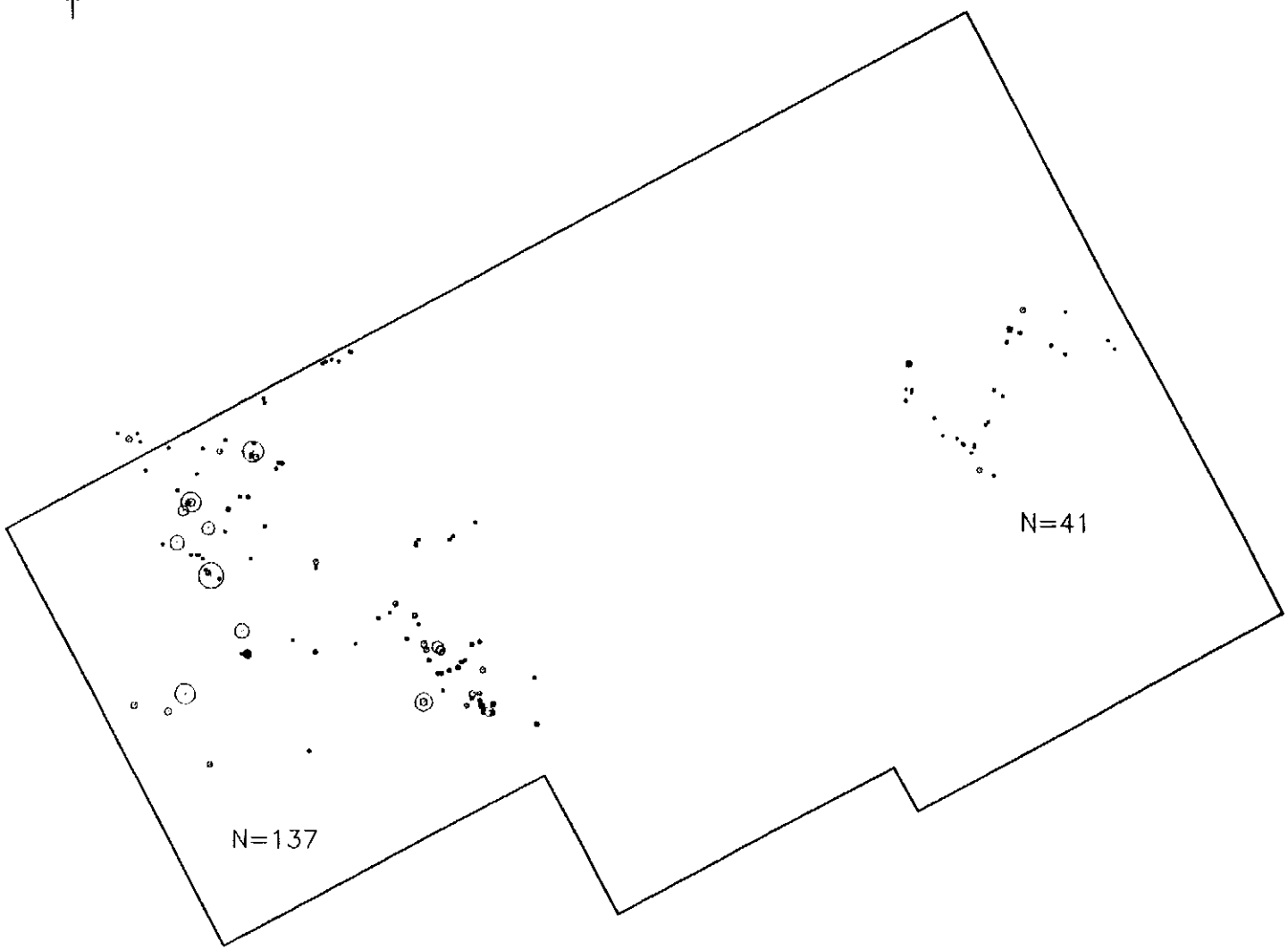
Correlation - Silt Samples n=68 ; 1997 Prospector Mt. Troymin Resources																																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
Mo	1.000																																		
Cu	0.629	1.000																																	
Pb	0.664	0.663	1.000																																
Zn	0.712	0.677	0.806	1.000																															
Ag	0.546	0.858	0.646	0.703	1.000																														
Ni	0.675	0.422	0.687	0.691	0.423	1.000																													
Co	0.813	0.548	0.746	0.691	0.561	0.859	1.000																												
Mn	0.700	0.656	0.591	0.583	0.656	0.548	0.716	1.000																											
Fe	0.712	0.342	0.664	0.579	0.290	0.765	0.796	0.507	1.000																										
As	0.499	0.438	0.724	0.491	0.360	0.813	0.687	0.327	0.519	1.000																									
U	0.329	0.120	0.185	0.197	0.106	0.135	0.133	0.218	0.203	-0.033	1.000																								
Th	0.589	0.162	0.439	0.340	0.150	0.405	0.436	0.370	0.654	0.113	0.480	1.000																							
Sr	0.427	0.306	0.499	0.360	0.237	0.606	0.426	0.466	0.452	0.259	0.181	0.373	1.000																						
Cd	0.750	0.652	0.691	0.885	0.710	0.643	0.690	0.720	0.433	0.391	0.234	0.327	0.374	1.000																					
Sb	0.537	0.591	0.790	0.599	0.529	0.600	0.698	0.423	0.548	0.905	0.082	0.153	0.237	0.444	1.000																				
Bi	0.726	0.595	0.685	0.769	0.623	0.711	0.849	0.630	0.654	0.638	0.165	0.362	0.239	0.728	0.693	1.000																			
V	0.302	-0.081	0.250	0.210	-0.104	0.498	0.404	0.195	0.810	0.167	0.171	0.475	0.334	0.053	0.177	0.262	1.000																		
Ca	0.009	0.115	-0.060	0.052	0.009	0.062	-0.177	0.034	-0.007	-0.370	0.170	0.226	0.552	0.012	-0.292	-0.178	0.097	1.000																	
P	0.684	0.396	0.620	0.605	0.321	0.600	0.607	0.465	0.807	0.351	0.260	0.736	0.442	0.452	0.443	0.589	0.565	0.282	1.000																
La	-0.103	0.282	-0.095	-0.084	0.107	-0.325	-0.445	-0.086	-0.266	-0.453	0.128	0.098	0.186	-0.074	-0.321	-0.390	-0.220	0.637	0.028	1.000															
Cr	0.514	0.077	0.477	0.482	0.078	0.786	0.846	0.273	0.876	0.445	0.234	0.583	0.433	0.331	0.425	0.576	0.842	0.077	0.690	-0.385	1.000														
Mg	0.485	0.222	0.413	0.539	0.262	0.814	0.645	0.302	0.663	0.229	0.035	0.368	0.464	0.401	0.294	0.465	0.538	0.264	0.558	-0.202	0.718	1.000													
Ba	0.370	0.073	0.082	0.133	0.105	0.284	0.222	0.218	0.067	-0.046	0.230	0.359	0.343	0.311	-0.095	0.048	-0.178	0.254	0.159	0.151	0.056	0.236	1.000												
Ti	0.582	0.018	0.443	0.420	0.001	0.702	0.689	0.320	0.817	0.485	0.197	0.526	0.306	0.360	0.384	0.497	0.758	-0.111	0.587	-0.529	0.847	0.602	0.083	1.000											
B	0.251	0.211	0.108	0.314	0.215	0.215	0.182	0.118	0.137	0.064	-0.051	0.057	0.101	0.279	0.105	0.262	0.030	0.144	0.248	0.062	0.133	0.154	0.137	0.080	1.000										
Al	0.349	0.308	0.322	0.314	0.301	0.452	0.304	0.224	0.164	0.169	0.080	0.134	0.355	0.352	0.164	0.193	-0.043	0.190	0.247	0.044	0.127	0.371	0.396	0.136	0.186	1.000									
Na	0.342	0.188	0.240	0.081	0.074	0.299	0.290	0.252	0.212	0.133	0.212	0.421	0.469	0.165	0.077	0.060	-0.003	0.294	0.230	0.143	0.144	0.228	0.508	0.159	0.048	0.199	1.000								
K	0.845	0.471	0.678	0.627	0.434	0.667	0.768	0.848	0.766	0.372	0.273	0.827	0.507	0.642	0.382	0.618	0.382	0.149	0.803	-0.024	0.571	0.549	0.439	0.613	0.203	0.320	0.488	1.000							
W	0.209	0.092	0.045	0.229	0.023	0.148	0.093	0.120	0.193	0.052	-0.025	0.147	0.003	0.171	0.049	0.278	0.195	0.092	0.209	-0.017	0.265	0.181	-0.012	0.168	-0.035	0.048	-0.102	0.109	1.000						
Tl	0.664	0.343	0.587	0.425	0.313	0.501	0.655	0.548	0.542	0.390	0.187	0.550	0.399	0.504	0.319	0.450	0.163	-0.073	0.509	-0.092	0.315	0.314	0.373	0.449	0.051	0.285	0.460	0.780	-0.082	1.000					
Hg	0.113	0.495	0.150	0.138	0.414	-0.058	-0.037	0.355	-0.215	-0.027	0.118	-0.123	0.377	0.285	-0.003	-0.025	-0.335	0.423	-0.088	0.483	-0.317	-0.259	0.142	-0.356	0.142	0.130	0.313	0.010	-0.089	0.063	1.000				
Se	0.874	0.573	0.655	0.727	0.555	0.727	0.809	0.743	0.656	0.343	0.246	0.539	0.554	0.801	0.375	0.660	0.261	0.143	0.633	-0.064	0.464	0.603	0.436	0.530	0.201	0.440	0.398	0.873	0.087	0.780	0.155	1.000			
Te	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000		
Ga	0.571	0.625	0.456	0.555	0.641	0.489	0.594	0.504	0.528	0.261	0.086	0.327	0.064	0.417	0.483	0.574	0.225	0.005	0.485	-0.035	0.348	0.544	0.072	0.252	0.194	0.262	0.082	0.490	0.188	0.332	-0.030	0.526	0.000	1.000	
Au+	-0.003	-0.083	0.065	0.027	-0.091	0.069	0.117	-0.090	0.206	0.196	-0.082	-0.014	-0.125	-0.041	0.120	0.122	0.213	-0.208	0.062	-0.273	0.232	0.091	-0.252	0.188	0.053	-0.222	0.017	0.019	-0.053	0.060	-0.202	-0.036	0.000	-0.036	1.000

Correlation - Soil Samples n=22 ; 1997 Prospector Mt. Troymin Resources																																		
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
Mo	1.000																																	
Cu	0.016	1.000																																
Pb	-0.170	0.673	1.000																															
Zn	-0.129	0.716	0.594	1.000																														
Ag	-0.132	0.459	0.861	0.550	1.000																													
Ni	-0.020	-0.040	-0.271	-0.151	-0.103	1.000																												
Co	-0.019	0.161	-0.199	-0.091	-0.248	0.725	1.000																											
Mn	-0.220	0.598	0.234	0.309	-0.062	-0.032	0.352	1.000																										
Fe	0.644	0.039	-0.121	-0.280	-0.127	0.124	0.205	-0.197	1.000																									
As	-0.071	0.439	0.735	0.716	0.670	-0.182	-0.164	0.072	-0.308	1.000																								
U	0.275	0.421	-0.046	0.143	0.028	0.517	0.473	0.226	0.194	-0.002	1.000																							
Th	0.162	-0.285	-0.244	-0.127	-0.186	-0.193	-0.003	-0.176	0.104	-0.060	-0.149	1.000																						
Sr	0.161	0.294	0.053	0.342	0.097	0.449	0.577	0.067	-0.098	0.350	0.552	0.010	1.000																					
Cd	-0.087	0.550	0.495	0.936	0.492	-0.104	-0.068	0.132	-0.283	0.741	0.096	-0.133	0.422	1.000																				
Sb	-0.139	0.128	0.653	0.176	0.879	-0.061	-0.250	-0.210	-0.056	0.327	-0.064	-0.097	-0.046	0.144	1.000																			
Bi	-0.002	0.240	0.762	0.270	0.794	-0.231	-0.291	-0.191	-0.083	0.687	-0.104	-0.058	0.074	0.283	0.687	1.000																		
V	0.579	-0.293	-0.399	-0.457	-0.377	-0.064	-0.066	-0.422	0.837	-0.462	0.016	0.049	-0.299	-0.403	-0.250	-0.253	1.000																	
Ca	0.091	0.276	0.009	0.335	0.085	0.449	0.528	0.133	-0.131	0.311	0.622	0.160	0.905	0.371	-0.042	0.115	-0.369	1.000																
P	-0.073	0.482	0.395	0.141	0.185	0.086	0.481	0.639	-0.001	0.196	0.180	0.168	0.292	-0.016	0.137	0.170	-0.382	0.362	1.000															
La	0.116	0.222	-0.092	0.166	-0.060	0.189	0.291	0.225	-0.138	0.105	0.519	0.553	0.548	0.130	-0.093	-0.011	-0.347	0.732	0.433	1.000														
Cr	0.350	-0.037	-0.358	-0.083	-0.196	0.636	0.613	-0.074	0.426	-0.136	0.570	0.444	0.532	-0.072	-0.151	-0.206	0.191	0.632	0.183	0.621	1.000													
Mg	0.262	-0.051	-0.212	-0.026	-0.089	0.338	0.461	-0.097	0.272	-0.043	0.309	0.728	0.477	0.009	-0.023	-0.009	0.023	0.597	0.278	0.740	0.854	1.000												
Ba	0.165	0.430	0.035	0.443	0.096	0.429	0.499	0.153	-0.087	0.246	0.633	0.009	0.906	0.487	-0.066	0.014	-0.307	0.901	0.217	0.627	0.557	0.507	1.000											
Tl	0.338	-0.725	-0.614	-0.497	-0.385	0.039	-0.142	-0.759	0.459	-0.390	-0.174	0.346	-0.271	-0.348	-0.199	-0.257	0.723	-0.277	-0.641	-0.251	0.253	0.175	-0.325	1.000										
B	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.000									
Al	0.380	0.254	-0.085	0.155	0.056	0.588	0.541	-0.043	0.439	0.003	0.653	0.139	0.697	0.155	0.040	-0.049	0.129	0.725	0.199	0.536	0.859	0.698	0.753	0.002	#DIV/0!	1.000								
Na	-0.404	-0.106	-0.093	-0.109	-0.134	0.201	0.112	0.165	-0.463	0.006	-0.120	-0.050	-0.017	-0.063	-0.116	-0.174	-0.425	-0.073	-0.028	0.141	-0.046	-0.006	-0.003	-0.196	#DIV/0!	-0.212	1.000							
K	0.340	-0.030	-0.124	-0.008	-0.072	-0.106	0.150	-0.079	0.202	-0.015	0.153	0.857	0.333	-0.013	-0.006	0.059	0.029	0.455	0.302	0.729	0.589	0.871	0.366	0.133	#DIV/0!	0.466	-0.155	1.000						
W	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.000					
Tl	-0.002	0.636	0.538	0.455	0.323	-0.431	-0.213	0.480	0.035	0.285	-0.059	0.301	-0.126	0.199	0.140	0.204	-0.257	-0.015	0.549	0.310	-0.083	0.098	-0.015	-0.515	#DIV/0!	0.009	-0.137	0.327	#DIV/0!	1.000				
Hg	-0.042	0.673	0.659	0.596	0.844	-0.062	-0.152	0.237	0.080	0.610	0.197	-0.302	0.012	0.444	0.839	0.566	-0.258	0.017	0.330	-0.086	-0.154	-0.206	0.018	-0.491	#DIV/0!	0.107	-0.258	-0.192	#DIV/0!	0.527	1.000			
Se	-0.183	0.784	0.486	0.705	0.275	-0.228	-0.063	0.628	-0.050	0.275	0.105	-0.230	-0.107	0.466	-0.028	-0.047	-0.222	-0.090	0.306	-0.049	-0.232	-0.264	0.024	-0.556	#DIV/0!	-0.064	-0.142	-0.188	#DIV/0!	0.690	0.591	1.000		
Te	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	#DIV/0!	0.000	0.000	0.000	#DIV/0!	0.000	0.000	0.000	1.000	
Ga	0.659	-0.201	-0.323	-0.285	-0.291	-0.230	-0.226	-0.444	0.784	-0.342	0.022	0.106	-0.174	-0.228	-0.189	-0.190	0.923	-0.241	-0.388	-0.199	0.177	0.075	-0.156	0.635	#DIV/0!	0.230	-0.494	0.173	#DIV/0!	-0.111	-0.195	-0.176	0.000	1.000
Au+	-0.147	0.600	0.506	0.175	0.143	-0.392	-0.118	0.662	0.081	0.059	-0.053	-0.271	-0.337	-0.050	0.015	0.082	-0.066	-0.336	0.474	-0.165	-0.433	-0.380	-0.291	-0.612	#DIV/0!	-0.268	-0.107	-0.202	#DIV/0!	0.664	0.460	0.696	0.000	-0.065	1.000

Troymin 1997 Rock Sample Corelations 129 Samples (East Side)																																		
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
Mo	1.000																																	
Cu	0.084	1.000																																
Pb	0.021	0.075	1.000																															
Zn	-0.031	-0.050	0.579	1.000																														
Ag	0.122	0.609	0.329	0.037	1.000																													
Ni	-0.145	-0.067	0.064	0.496	-0.036	1.000																												
Co	0.068	0.092	0.083	0.256	0.168	0.436	1.000																											
Mn	-0.050	-0.029	0.087	0.618	0.033	0.409	0.317	1.000																										
Fe	0.083	0.317	0.054	0.261	0.408	0.393	0.516	0.523	1.000																									
As	0.122	0.303	0.174	0.015	0.786	-0.023	0.070	0.002	0.367	1.000																								
U	0.109	0.947	0.045	-0.084	0.498	-0.097	0.105	-0.079	0.286	0.177	1.000																							
Th	-0.137	-0.013	-0.253	-0.419	-0.168	-0.601	-0.426	-0.335	-0.472	-0.130	0.040	1.000																						
Sr	-0.136	-0.060	0.245	0.301	0.012	0.527	0.138	0.044	0.071	0.015	-0.058	-0.368	1.000																					
Cd	0.064	0.112	0.448	0.591	0.511	0.248	0.171	0.256	0.257	0.682	0.003	-0.321	0.219	1.000																				
Sb	0.103	0.183	0.153	-0.017	0.706	-0.064	0.015	-0.048	0.265	0.981	0.055	-0.093	0.006	0.691	1.000																			
Bi	0.079	0.675	0.166	-0.042	0.827	-0.079	0.033	-0.017	0.329	0.709	0.527	-0.086	-0.061	0.406	0.617	1.000																		
V	-0.254	-0.057	-0.021	0.314	-0.083	0.728	0.234	0.201	0.309	-0.078	-0.103	-0.316	0.449	0.116	-0.083	-0.128	1.000																	
Ca	-0.156	-0.098	0.417	0.624	-0.042	0.636	0.236	0.256	0.095	-0.078	-0.129	-0.514	0.718	0.378	-0.081	-0.094	0.575	1.000																
P	-0.191	0.086	0.050	0.387	0.062	0.621	0.315	0.212	0.252	-0.025	0.027	-0.513	0.602	0.213	-0.064	0.086	0.810	0.688	1.000															
La	-0.267	-0.258	-0.239	-0.145	-0.328	-0.154	-0.392	0.017	-0.398	-0.261	-0.257	0.457	-0.075	-0.241	-0.193	-0.271	0.043	-0.122	-0.078	1.000														
Cr	-0.165	-0.076	0.036	0.488	-0.065	0.964	0.367	0.372	0.362	-0.019	-0.098	-0.560	0.493	0.220	-0.063	-0.088	0.749	0.598	0.833	-0.152	1.000													
Mg	-0.181	-0.122	-0.001	0.509	-0.125	0.916	0.364	0.419	0.332	-0.068	-0.143	-0.474	0.485	0.225	-0.092	-0.146	0.818	0.696	0.800	-0.055	0.899	1.000												
Ba	-0.091	-0.089	-0.124	-0.144	-0.146	0.197	-0.074	-0.168	-0.105	-0.069	-0.089	0.015	0.515	-0.130	-0.056	-0.109	0.236	0.140	0.249	0.183	0.132	0.188	1.000											
Tl	-0.224	-0.120	-0.182	-0.181	-0.242	0.220	-0.138	-0.361	-0.241	-0.154	-0.133	0.211	0.373	-0.173	-0.118	-0.186	0.593	0.175	0.408	0.198	0.272	0.278	0.443	1.000										
B	0.112	0.280	0.053	0.260	0.233	-0.085	0.004	0.252	0.054	0.054	0.240	-0.070	-0.032	0.123	-0.015	0.399	-0.231	-0.018	0.030	-0.171	-0.094	-0.149	-0.100	-0.233	1.000									
Al	-0.172	-0.129	0.023	0.580	-0.121	0.813	0.330	0.669	0.367	-0.060	-0.146	-0.383	0.376	0.235	-0.091	-0.153	0.734	0.630	0.673	0.005	0.805	0.946	0.116	0.121	-0.113	1.000								
Na	-0.113	-0.134	-0.158	-0.097	-0.221	0.272	-0.051	-0.328	-0.193	-0.141	-0.148	0.101	0.275	-0.070	-0.103	-0.187	0.539	0.139	0.356	0.044	0.328	0.322	0.229	0.724	-0.230	0.208	1.000							
K	-0.071	-0.128	-0.155	-0.133	-0.180	0.268	-0.005	-0.248	-0.099	-0.086	-0.112	0.070	0.315	-0.087	-0.065	-0.153	0.437	0.053	0.263	0.147	0.223	0.288	0.607	0.635	-0.168	0.191	0.609	1.000						
W	0.053	0.222	0.112	-0.057	0.435	-0.072	0.224	0.003	0.274	0.122	0.353	-0.022	0.083	-0.019	0.049	0.122	-0.098	-0.105	-0.063	-0.223	-0.080	-0.118	-0.078	-0.140	0.061	-0.117	-0.126	-0.061	1.000					
Tl	0.078	0.208	0.130	-0.025	0.417	-0.020	0.237	-0.022	0.235	0.110	0.338	-0.023	0.134	0.002	0.038	0.107	-0.033	-0.083	-0.007	-0.210	-0.034	-0.051	-0.012	-0.065	0.055	-0.053	-0.012	0.088	0.978	1.000				
Hg	0.104	0.185	0.152	-0.016	0.703	-0.061	0.013	-0.050	0.265	0.980	0.054	-0.095	0.004	0.691	1.000	0.619	-0.078	-0.079	-0.060	-0.194	-0.060	-0.089	-0.056	-0.114	-0.015	-0.089	-0.098	-0.063	0.030	0.020	1.000			
Se	0.265	0.364	0.211	0.067	0.556	0.007	0.373	0.147	0.439	0.254	0.450	-0.165	0.014	0.116	0.149	0.255	-0.137	-0.093	-0.071	-0.385	-0.033	-0.093	-0.136	-0.311	0.111	-0.069	-0.247	-0.157	0.856	0.834	0.136	1.000		
Te	0.055	0.331	0.146	-0.053	0.520	-0.072	0.218	-0.007	0.255	0.145	0.430	-0.024	0.074	-0.013	0.052	0.276	-0.109	-0.091	-0.009	-0.237	-0.083	-0.128	-0.088	-0.153	0.167	-0.130	-0.141	-0.081	0.975	0.959	0.034	0.855	1.000	
Ga	-0.151	-0.009	-0.007	0.519	0.010	0.765	0.325	0.509	0.477	0.082	-0.036	-0.339	0.358	0.306	0.043	-0.031	0.754	0.548	0.565	-0.051	0.769	0.893	0.064	0.185	-0.122	0.913	0.257	0.173	-0.009	0.044	0.045	0.023	-0.031	1.000
Au+	0.048	0.177	0.114	-0.045	0.410	-0.056	0.219	-0.004	0.223	0.102	0.310	-0.013	0.098	-0.023	0.035	0.084	-0.082	-0.084	-0.047	-0.199	-0.061	-0.094	-0.065	-0.117	0.045	-0.093	-0.103	-0.046	0.995	0.981	0.016	0.844	0.970	0.000	1.000

Troymin 1997 Rock Sample Corelations 157 Samples (West Side)																																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
Mo	1.000																																			
Cu	0.469	1.000																																		
Pb	0.301	0.424	1.000																																	
Zn	-0.010	0.053	0.244	1.000																																
Ag	0.470	0.428	0.731	0.033	1.000																															
Ni	0.072	-0.062	-0.185	0.043	-0.230	1.000																														
Co	0.255	0.238	-0.111	0.091	-0.045	0.522	1.000																													
Mn	0.009	-0.001	0.039	0.326	-0.022	0.122	0.167	1.000																												
Fe	0.383	0.546	0.158	0.017	0.142	0.199	0.463	0.160	1.000																											
As	0.069	0.135	0.263	-0.013	0.264	-0.047	0.061	0.032	-0.021	1.000																										
U	0.491	0.936	0.289	0.000	0.304	-0.028	0.244	-0.044	0.505	0.109	1.000																									
Th	-0.189	-0.196	-0.372	-0.097	-0.371	-0.148	-0.165	-0.149	-0.312	-0.088	-0.117	1.000																								
Sr	-0.029	0.073	0.434	0.070	0.179	-0.036	-0.037	0.242	0.090	-0.086	-0.082	-0.286	1.000																							
Cd	0.036	0.131	0.452	0.618	0.295	0.002	0.017	0.192	-0.036	0.406	0.077	-0.180	0.050	1.000																						
Sb	0.078	0.228	0.481	0.033	0.456	0.103	-0.086	-0.051	0.000	0.537	0.110	-0.181	-0.060	0.591	1.000																					
Bi	0.459	0.771	0.244	-0.015	0.419	0.049	0.291	-0.036	0.422	0.097	0.745	-0.162	-0.115	0.083	0.155	1.000																				
V	0.054	-0.146	-0.351	-0.115	-0.406	0.501	0.326	-0.052	0.395	-0.289	-0.098	-0.029	-0.009	-0.203	-0.213	-0.102	1.000																			
Ca	-0.130	-0.126	-0.237	0.060	-0.296	0.094	0.045	0.362	0.048	-0.142	-0.085	-0.174	0.151	-0.041	-0.123	-0.118	0.179	1.000																		
P	-0.198	-0.221	-0.404	0.038	-0.503	0.600	0.450	0.006	0.016	-0.081	-0.142	-0.143	-0.077	-0.092	-0.240	-0.211	0.556	0.170	1.000																	
La	0.124	-0.065	-0.296	-0.050	-0.385	0.072	0.080	-0.064	0.035	-0.214	-0.033	0.034	-0.024	-0.135	-0.114	-0.090	0.420	0.219	0.484	1.000																
Cr	-0.126	-0.114	-0.239	-0.063	-0.255	0.825	0.329	0.001	0.116	-0.067	-0.073	-0.041	-0.104	-0.083	-0.092	-0.065	0.589	0.029	0.522	0.063	1.000															
Mg	-0.165	-0.180	-0.371	-0.054	-0.425	0.494	0.253	0.164	0.196	-0.241	-0.119	0.115	0.050	-0.156	-0.188	-0.144	0.690	0.617	0.502	0.332	0.519	1.000														
Ba	-0.025	0.030	-0.096	-0.058	-0.168	0.132	0.032	0.122	0.083	-0.052	0.024	0.198	-0.008	-0.030	0.014	0.042	0.282	0.021	0.138	0.184	0.146	0.137	1.000													
Ti	-0.134	-0.118	-0.244	-0.101	-0.283	0.410	0.200	-0.138	0.045	-0.159	-0.071	0.282	-0.111	-0.137	-0.116	-0.104	0.592	-0.042	0.311	0.021	0.646	0.312	0.233	1.000												
B	-0.068	-0.104	-0.132	0.057	-0.007	-0.104	-0.083	0.012	-0.363	0.374	-0.063	0.135	-0.171	0.012	-0.038	-0.045	-0.493	-0.226	-0.101	-0.315	-0.119	-0.374	-0.245	-0.231	1.000											
Al	-0.142	-0.188	-0.399	-0.100	-0.458	0.490	0.282	0.069	0.207	-0.285	-0.134	-0.055	0.008	-0.195	-0.227	-0.140	0.787	0.284	0.620	0.534	0.478	0.805	0.169	0.262	-0.438	1.000										
Na	-0.185	-0.158	-0.327	-0.134	-0.379	0.282	0.125	-0.178	-0.008	-0.197	-0.097	0.286	-0.050	-0.183	-0.157	-0.138	0.636	0.075	0.344	0.245	0.440	0.369	0.291	0.737	-0.251	0.413	1.000									
K	-0.081	-0.114	-0.156	-0.061	-0.217	0.402	0.068	-0.017	0.055	-0.136	-0.089	0.143	-0.039	-0.080	-0.098	-0.102	0.538	0.023	0.306	0.170	0.544	0.345	0.425	0.593	-0.253	0.322	0.494	1.000								
W	0.534	0.253	0.028	-0.017	0.228	-0.115	0.232	-0.033	0.611	-0.013	0.227	-0.191	-0.126	-0.045	-0.022	0.311	0.124	-0.154	-0.227	-0.108	-0.132	-0.173	-0.050	-0.120	-0.072	-0.133	-0.164	-0.100	1.000							
Tl	0.526	0.835	0.705	0.237	0.615	-0.084	0.162	0.109	0.441	0.274	0.793	-0.325	0.146	0.359	0.334	0.657	-0.251	-0.102	-0.292	-0.210	-0.152	-0.227	0.016	-0.168	-0.096	-0.315	-0.264	-0.082	0.198	1.000						
Hg	0.185	0.237	0.550	0.028	0.468	-0.123	-0.092	-0.009	0.036	0.464	0.188	-0.201	0.203	0.697	0.679	0.180	-0.201	-0.090	-0.275	-0.173	-0.136	-0.159	-0.037	-0.127	-0.116	-0.211	-0.171	-0.073	0.008	0.395	1.000					
Se	0.139	0.252	0.262	0.054	0.286	0.010	0.222	0.177	0.085	0.277	0.216	-0.156	-0.014	0.164	0.161	0.312	-0.287	-0.146	-0.061	-0.292	-0.065	-0.247	-0.111	-0.137	0.284	-0.290	-0.206	-0.169	0.031	0.366	0.073	1.000				
Te	0.461	0.814	0.324	0.039	0.457	-0.088	0.146	-0.003	0.387	0.103	0.832	-0.165	-0.049	0.039	0.095	0.662	-0.205	-0.125	-0.240	-0.136	-0.119	-0.200	-0.065	-0.137	0.047	-0.234	-0.181	-0.146	0.204	0.731	0.114	0.259	1.000			
Ga	0.181	0.346	0.021	-0.031	-0.074	0.338	0.361	-0.045	0.456	-0.108	0.368	-0.202	0.096	-0.067	-0.033	0.210	0.633	0.126	0.393	0.376	0.329	0.555	0.048	0.253	-0.449	0.687	0.352	0.156	0.000	0.269	-0.034	-0.022	0.270	1.000		
Au+	0.142	0.401	0.485	0.043	0.429	-0.105	-0.015	-0.014	0.205	0.334	0.259	-0.201	0.112	0.159	0.686	0.262	-0.188	-0.125	-0.290	-0.073	-0.104	-0.182	-0.045	-0.115	-0.104	-0.213	-0.157	-0.113	0.062	0.413	0.263	0.111	0.280	0.059	1.000	

APPENDIX B
DOT PLOTS
FIGURES 9A-G



6930000N
62° 27'
6926000N
6922000N
350000E
137° 50'
354000E
358000E

LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Ag/Au RATIO
°	1194.2
○	2388.3
○	3582.6
○	4776.7

STATISTICS

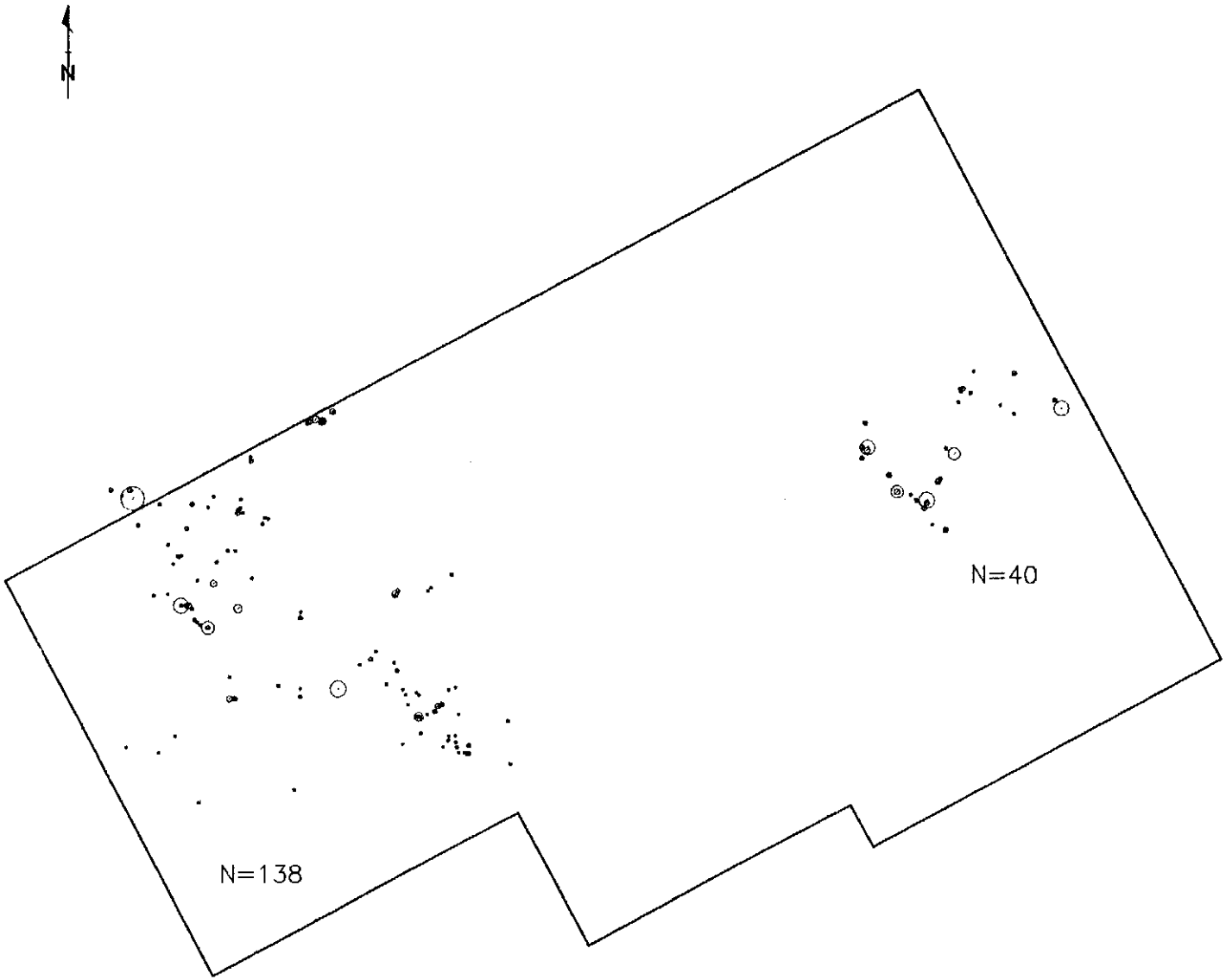
MEAN RATIO VALUE	405.469
RANGE	4776.65
MINIMUM	0.9318
MAXIMUM	477.5882
COUNT (N)	178

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
AG-AU RATIOS
SELECTED SAMPLES

Aurum Geological Consultants Inc. | Date: NOVEMBER, 1997
NTS: 115 I/5 | Drawn: JG | Scale: 1:82,000 | Figure 9a



LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Au/Ag RATIO
○	0.0532
○	0.1064
○	0.1595
○	0.2127

STATISTICS

MEAN RATIO VALUE	0.0165
RANGE	0.2127
MINIMUM	0.2129
MAXIMUM	2.9368
COUNT (N)	178

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
AU-AG RATIOS
SELECTED SAMPLES

Date: NOVEMBER, 1997
NTS: 115 I/6 | Drawn: JC | Scale: | Figure 8b

LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Cu/Au RATIO
○	125.8
○	251.6
○	377.4
○	503.2

STATISTICS

MEAN RATIO VALUE	26.9497
RANGE	503.1954
MINIMUM	0.0296
MAXIMUM	503.2250
COUNT (N)	178

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.

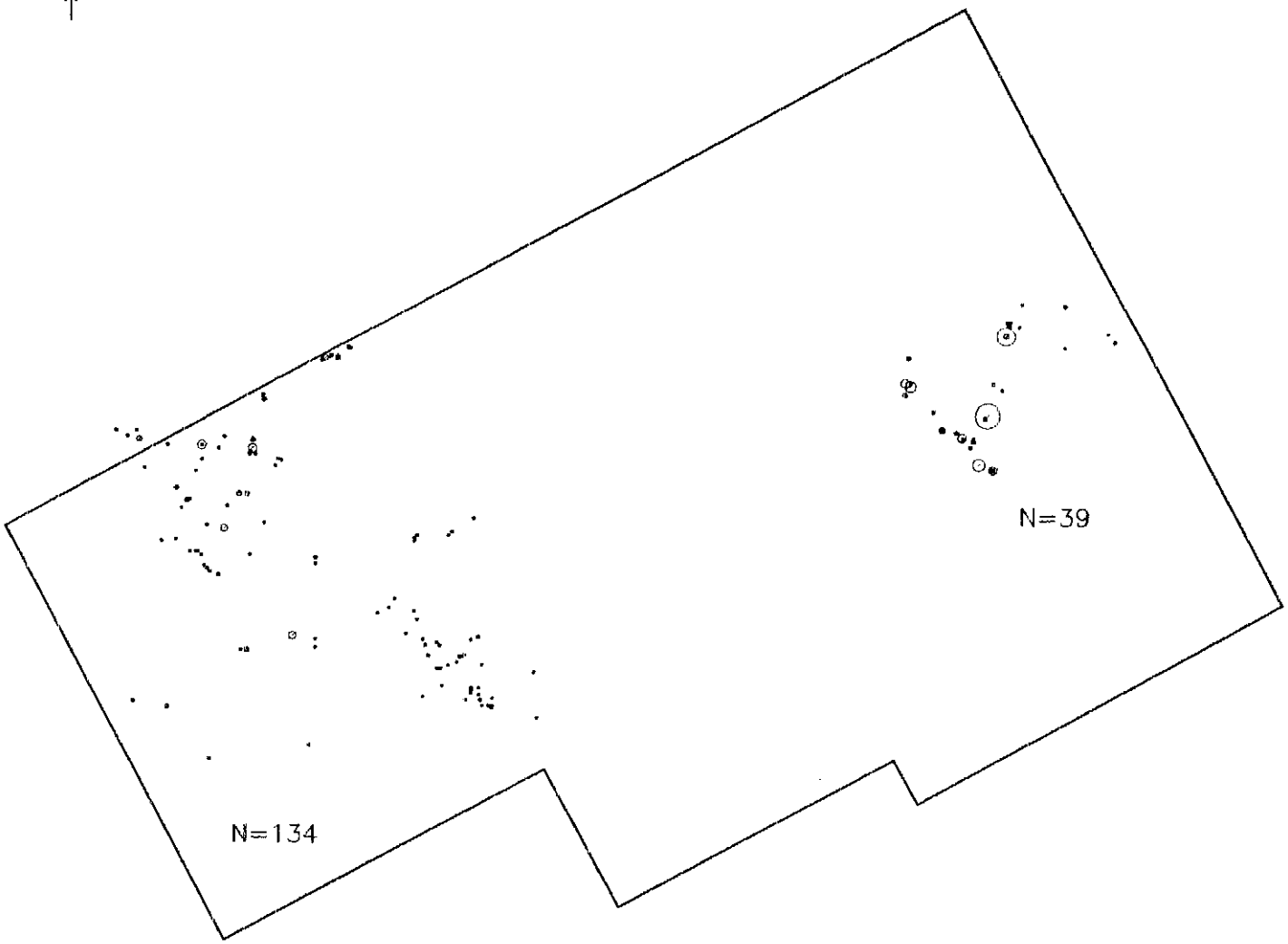
HAYES CLAIMS

WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT CU–AU RATIOS SELECTED SAMPLES

Date: NOVEMBER, 1997

Drawn: JC Scale: Figure 8a



LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Mo/Cu RATIO
°	0.904
○	1.81
○	2.71
○	3.62

STATISTICS

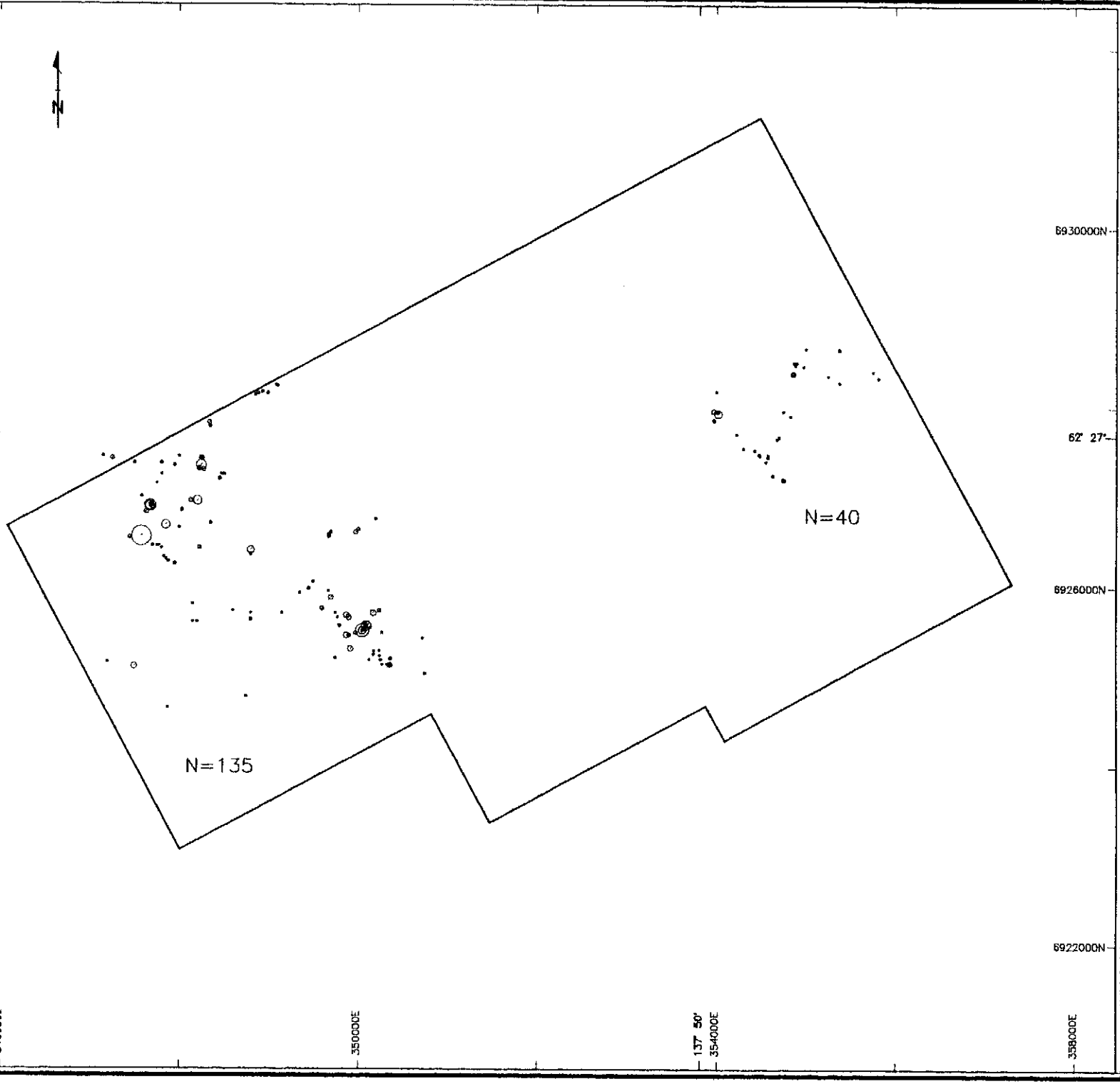
MEAN RATIO VALUE	0.1740
RANGE	3.6153
MINIMUM	0.0010
MAXIMUM	3.6163
COUNT (N)	173

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
MO-CU RATIOS
SELECTED SAMPLES

Date: SEPTEMBER, 1997
Scale: 1:62500



LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Pb/Cu RATIO
o	22.8
○	45.7
○	68.5
○	91.3

STATISTICS

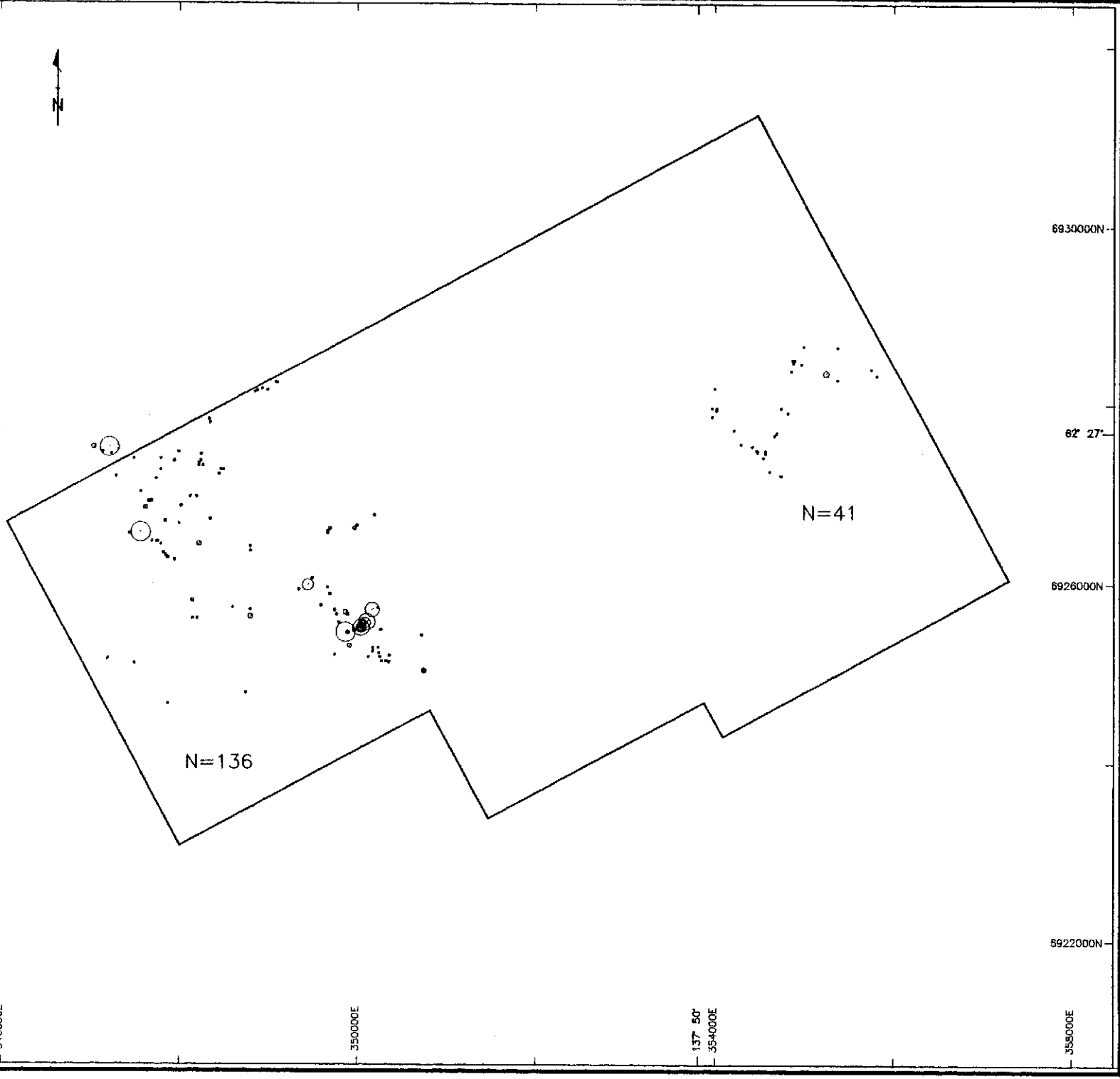
MEAN RATIO VALUE	6.8695
RANGE	91.3456
MINIMUM	0.0295
MAXIMUM	91.3751
COUNT (N)	175

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
PB–CU RATIOS
SELECTED SAMPLES

Date: NOVEMBER, 1997
NTS: 115 I/6 | Drawn: JC | Scale: 1:62500 | Figure 9a



LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Ag/Au RATIO
◦	2086
○	4172
○	6258
○	8344

STATISTICS

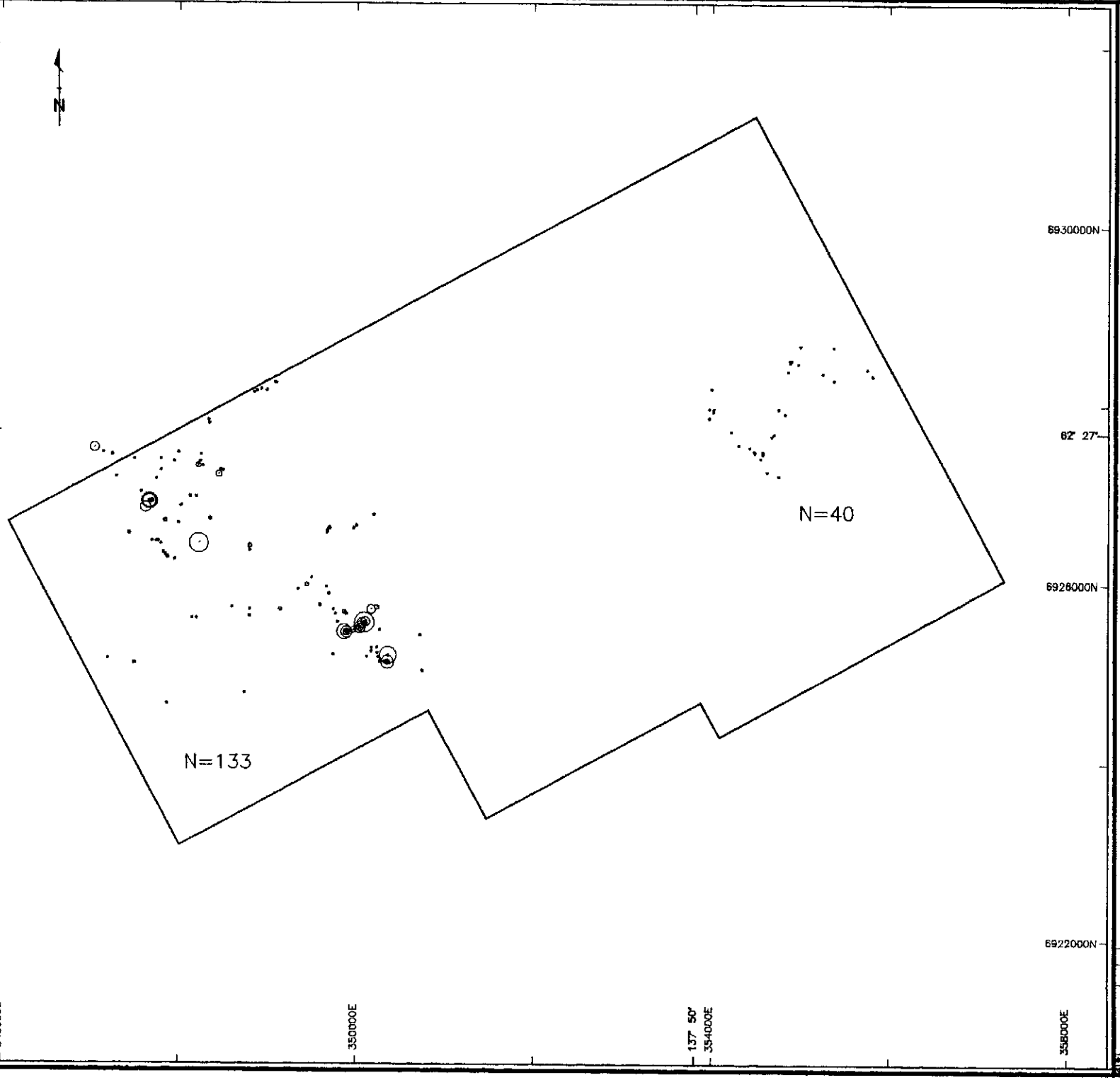
MEAN RATIO VALUE	519.0590
RANGE	8343.826
MINIMUM	0.2509
MAXIMUM	8344.0769
COUNT (N)	177

1000 800 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
PB–MO RATIOS
SELECTED SAMPLES

Date: NOVEMBER, 1997
NTS: 115 I/5 | Drawn: JC | Scale: 1:62500 | Figure: 8



LEGEND

CLAIM GROUP BOUNDARY

SYMBOL	Pb+Zn/Cu RATIO
◦	14230
○	28460
○	42690
○	56920

STATISTICS

MEAN RATIO VALUE	4162.3811
RANGE	56917.2515
MINIMUM	1.2905
MAXIMUM	56918.542
COUNT (N)	173

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.
HAYES CLAIMS
WHITEHORSE MINING DISTRICT, YUKON TERRITORY

DOT PLOT
PBZN–CU RATIOS
SELECTED SAMPLES

Date: NOVEMBER, 1997
Scale: 1:62500

APPENDIX C
SAMPLE DESCRIPTIONS
SELECTED GEOCHEMISTRY

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
33042	5250	av	E	float; grab	15099.8	242.8	29.7	56636	130.4	136	1640
33059	5100	av	E	hem; pyrite	14.8	52.3	116.3	2149	30.7	38	164
13086	5100	av	E	highly fractured and altered with some malachite; float	1589	228.2	131.6	13750	9.7	5	59
13083	5100	av	E	volcanic tuff; magnetic; epidote; 3-4% py+gn?+cpy?; float	209.1	1993.6	651.4	41017	17.1	< 2	38
13082	5350	av	E	fractured vol with py/cpy on fractures; some malachite	1787.9	52.8	43.7	23410	11.2	5	31
23068	5850	av	E	breccia with abu hematite	32.9	77.2	39.3	2412	6.7	20	16
13085	5100	av	E	volcanic breccia; ~5% pyrr as fra filling and framboidal grains in tuffaceous matrix	81.6	445.5	357.2	15138	27.3	< 2	13
13089	5100	av	E	breccia; 10% pyrr; tuff	59.2	116.1	930.4	2899	107.6	< 2	13
13087	5100	av	E	hematite+epidote+pyrite filled vesicules;<2% py/pyrr	91.8	275.8	1040.2	2498	6.3	< 2	11
33044	5000	av	E	float; grab	269.3	317	122.2	1616	13.5	6	11
33048	5100	av	E	hem; pyrite	53.3	126.4	185	5600	5.9	4	10
33060	5100	av	E	Mn & Feox	135.3	282.8	336.7	3630	18.7	4	10
33043	5000	av	E	float; grab	41.3	72.9	502	1644	5.5	< 2	8
33049	5100	av	E	float; grab	42.8	95.4	191.8	294	10.7	2	7
33061	6000	av	E	chalcopyrite in fracture with epidote	137.5	16.5	104.1	469	5.3	2	7
13084	5100	av	E	volcanic as above with ~5% pyrr	11.6	300.8	659.6	2128	23.8	< 2	4
13088	5100	av	E	siliceous vfg dg green hornfels?; mang coated; abu fractures	35.1	144.4	230.9	668	3.5	3	4
33041	5400	av	E	float; grab	19.6	23.1	60.1	637	3.1	6	4
33046	5100	av	E	float; grab	37.6	74	229.3	465	9.9	3	4
13094	5100	av	E	brecciated and silicified	249.7	150.1	606.4	887	14	< 2	3
23080	5350	av	E	silicified volcanic; 2% diss pyrite; abu feox	29.8	25	76.5	342	13.3	3	3
33045	5100	av	E	float; grab	64.5	28	88.8	285	5.8	2	3
33047	5100	av	E	float; grab	63	14.7	52.8	237	2.6	2	3
33052	5100	av	E	float; grab	38.1	41	225.8	363	4.5	14	3
33055	5100	av	E	float; grab	29	23.1	85.8	271	3.7	3	3
13090	5100	av	E	fg tuff with ~5% py/pyrr	86.3	545.2	208.7	1376	16.6	2	2
13091	5100	av	E	pyroclastic with abu epidote; no sulphides	4.9	16.3	77.8	72	12.8	2	2
33054	5100	av	E	float; grab	21.6	26.6	124.9	< 30	5.5	2	2
33056	5100	av	E	float; grab	15.6	16.5	75.2	161	3.2	3	2
13095	5100	av	E	brecciated and silicified tuff; vfg sulphides to 5%	87.5	65.3	170.2	692	11.8	< 2	1
33050	5100	av	E	pyrite	26.9	22.1	108.2	168	4.9	3	1
33051	5100	av	E	float; grab	25.9	45.6	115.9	293	2.4	2	1

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
33053	5100	av	E	pyrite	23.5	54.4	128.9	302	7.9	2	1
23076	5350	db	E	as above	30.2	42.2	114.5	< 30	31.6	2	4
23075	5350	db	E	mafic dyke	13.5	31.5	56.5	< 30	8.2	4	3
13101	6000	dp	E	silicified & brecciated porphyry dyke	8.4	20.2	9.6	380	25.8	8	11
33057	5100	dp	E	altered	54.2	105.2	122	1271	8.7	4	7
33058	5100	dp	E	altered	27.3	129.8	411.2	645	5.2	2	4
13093	5100	dp	E	epidote and quartz veinlets in altered felsic dyke	18.8	222.3	457.5	480	8.9	< 2	1
23065	5300	mv	E	3 cm quartz vein with visible gold; spec hem	2542.7	769.8	34.6	57214	101.1	1799	61400
23070	5150	mv	E	10 cm quartz vein with ~15% pyrite	82.2	188.3	10.3	11730	30.2	6	1446
13080	5450	mv	E	quartz vein with botryoidal hematite; some malachite on fractures	2911.6	968.1	112.2	99999	1000.1	65	1118
13092	5100	mv	E	quartz epidote vein with 1% galena	49.6	4840.5	1629.5	5347	11.3	4	5
23079	5350	mv	E	20% pyrite	33.1	65.7	11.7	545	7	6	5
13078	4900	mv	E	qtz vein with 35-40% framboidal pyrite; float	12.7	99.5	59.5	567	24	5	3
13099	6000	mv	E	grey quartz vein with pyrite	6.1	41.4	9.6	546	5	7	3
23077	5350	mv	E	quartz vein 2 cm <1% pyrite	17.1	35.1	57.6	91	2.3	6	3
13079	5450	mv	E	fractured monz with py and cpy? to 15%	7	114.2	38.1	565	6.1	3	2
33083	4750	mv	E	cpy/py/hem; float	67.4	1560.7	100.4	9648	19.7	3	2
33066	4750	mv	E	cpy/py; float	11	29.5	32.1	89	5.5	5	1
23072	5350	p	E	altered monz with multiple quartz stringers	9.5	168	4.9	806	23.4	14	19
13100	6000	p	E	sericite altered monz with abu tour veinlets	10	100	8.8	785	8	5	7
23073	5350	p	E	altered monz with 5% pyrite	24	39.4	62.3	268	10.9	5	7
23063	5350	p	E	sericite altered monz ?	46.6	119.2	24.1	697	9.4	5	5
13081	5350	p	E	silicified monz; well fractured; mang on fractures; magnetic	37.5	48.2	64.2	1593	5	3	4
13096	4750	p	E	alt monz with 10-15% pyrite + cpy(?); .5 m wide; float	5.9	32.6	32.8	104	14.6	4	2
13097	4750	p	E	same as above	25.7	37.9	35.4	167	13.1	4	2
23064	5350	p	E	same as above	25.3	47.6	24.8	294	6.4	23	2
33077	4750	p	E	float	5	25.5	64.7	87	4	4	2
33065	4750	p	E	float	4.6	21.8	28.2	173	4.9	5	1
33067	4750	p	E	float	8.3	16.5	37.8	92	1.9	5	1
33068	4750	p	E	float	15.2	42.6	83.2	208	1.3	5	1
33069	4750	p	E	float	5	19.3	33.8	49	2.6	4	1
33071	4750	p	E	float	10.1	22.2	34.5	87	3.5	5	1

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
33072	4750	p	E	float	9	32.5	37.8	102	5	8	1
33073	4750	p	E	float	7.3	23.5	32.2	< 30	3.1	4	1
33074	4750	p	E	float	6.5	16.1	28	< 30	2.7	6	1
33075	4750	p	E	float	7	22.6	53.4	129	5.2	5	1
33076	4750	p	E	float	21.4	33.9	64.4	179	4.1	7	1
33078	4750	p	E	float	6.8	19.8	26	46	5.6	7	1
33079	4750	p	E	float	7.8	18.1	38.6	41	2.9	4	1
33080	4750	p	E	float	11.2	23.8	39	< 30	3.1	6	1
33081	4750	p	E	float	4.7	19.5	34.6	55	1.7	3	1
33082	4750	p	E	float	10	28.1	38.4	87	10	7	1
33084	4750	p	E	float	7.4	25	35.8	93	3.6	5	1
33085	4750	p	E	float	6.5	22.7	38.5	122	3.7	4	1
33086	4750	p	E	float	5.2	21.7	40.1	73	5.6	5	1
33087	4750	p	E	float	6.4	23.1	37.2	93	4.7	4	1
33088	4750	p	E	float	10.6	22.8	37.4	79	8.2	6	1
33089	4750	p	E	float	9.8	19	33.4	51	5.3	6	1
23069	5750	t	E	tourmaline vein with sun splays, abu hem; minor malachite	1687.9	611.1	69.1	40863	85.5	31	196
33040	5500	t	E	float; grab	24.5	60.9	29.6	808	7.8	10	79
23067	6150	t	E	massive specular hematite with small pods pyrite	15	50	602.7	430	10	10	54
23066	5300	t	E	massive specular hematite with small pods pyrite	16.7	61	156.5	2141	5.7	81	51
23071	5350	t	E	feox stained tourmaline vein in altered monz	6	174	8.5	604	19.2	5	21
23078	5350	t	E	5% pyrite; 5% tourmaline	90.5	52.6	36	497	7.6	5	8
33063	4750	t	E	tourmaline vein float	101.5	143.9	18.3	7129	13.6	5	8
33062	4750	t	E	with py and chalco; float	8.4	17.9	46.7	396	12	13	7
33093	5100	t	E	float	91.1	18.6	49.2	225	14.9	4	6
33092	5100	t	E	float	91.5	25	40.7	236	16.2	5	3
13098	5950	t	E	tourmaline vein float with 10% pyrite	8.8	39.8	8.8	1142	5.1	5	2
33094	5100	t	E	float	7.3	28.8	33	75	4.4	6	2
23074	5350	t	E	tourmaline breccia	5.9	12.1	9.7	< 30	4.7	4	1
33064	4750	t	E	tourmaline vein float	17.5	21.9	36	183	1.8	3	1
33070	4750	t	E	float	30.5	34.5	24	304	6.7	9	1
33090	4800	t	E	float	8.1	19.4	28	82	8.6	6	1

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
33091	5100	t	E	float	11.2	23.8	37.5	134	9.1	5	1
33035	5550	av	W	float; grab	41053.1	15927.8	1067.8	99999	342.6	64	3360
13050	5550	av	W	fractured vol with spec hem and malachite	42900.1	19865	1167.6	99999	441.9	64	2440
23057	5550	av	W	minor malachite	5736.8	24896.9	1120.6	99999	2881.2	3	1810
13049	5550	av	W	fractured vol with spec hem and malachite	5486.1	3337.3	264.6	99999	56	99	1682
33030	5000	av	W	float; grab	18.1	85.4	18.2	2433	193.1	3	254
13021	5600	av	W	silicified and pyritized vesicular volcanics	141.7	6804.6	919.6	22545	580.8	6	244
23008	4800	av	W	as above	478.9	2437.1	244.6	99999	173.3	19	158
23007	4800	av	W	silicified; mang; <1% py	3602.7	2284.5	217.8	99999	176.3	47	152
13048	5550	av	W	fractured vol with massive blebs and fracture coatings of spec hematite	891.1	1784.3	250.6	99999	25.2	171	131
23016	5650	av	W	breccia; minor py; ~2% aspy	5208.7	7866.9	3895.2	99999	374.4	6	85
13022	5600	av	W	silicified and pyritized vesicular volcanics	270.4	1377.6	631.1	33124	198.2	4	75
33037	5400	av	W	float; grab	1653	1226.3	446.2	34872	43.5	71	63
13024	5600	av	W	silicified and pyritized vesicular volcanics	148.5	5414.9	1006.7	20484	853.1	3	61
23037	5300	av	W	fault gouge 2 meters wide	271.1	16227.3	270.6	12749	40.4	2	61
33020	5100	av	W	float; grab	214.3	1296.7	709.1	10486	3871	7	57
13046	5150	av	W	vol breccia with 3% pyrite	258	2173.7	981.5	16168	71.2	< 2	47
33022	5100	av	W	feox stained volcanic	25	46.2	96.8	335	96.2	4	42
13020	5600	av	W	silicified and pyritized vesicular volcanics	101.7	464.6	398.6	4497	565.3	3	34
33031	4900	av	W	float; grab	227.3	56	176.1	1898	95.8	2	31
33034	5150	av	W	float; grab; massive galena from trench	173.2	21794.6	791.4	99999	39.8	3	27
33024	5100	av	W	float;grab	149.5	21.1	99	1030	37.7	3	26
13035	5550	av	W	silicified and pyritized tuff(?) 8-10% pyrite	35.2	344.9	365.1	2495	147.1	< 2	25
33025	5000	av	W	feox stained volcanic	66.2	31.4	160.9	722	68.1	< 2	24
23015	5650	av	W	breccia; 3% py; possible cpy/minor gn	373	9659.5	6413.1	83315	70	10	23
23060	5250	av	W	tuff; no visible sulphides	47.9	602.8	187.3	4099	32.5	2	22
23020	4750	av	W	silicified volcanic; py to 5%	181.7	234.4	85	1122	19.9	2	20
33039	5200	av	W	strongly altered volcanic; feox	30.7	618.4	3548.3	2534	32.6	3	19
33029	5000	av	W	float; grab	660.3	3014	1016.4	81219	805.6	3	17
23019	4750	av	W	fine diss py to 5%	36.8	981.6	231.8	8977	47.3	2	14
13045	5150	av	W	strongly alt vol breccia. abu hem and epidote	30.8	677.2	1030.2	666	5	< 2	12
33027	5000	av	W	float; grab	105.4	20.6	3366.8	884	35.2	< 2	12

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
23061	5100	av	W	agglomerate; fine diss cpy?; minor cpy	2091.9	3964.2	693.4	10545	232.5	< 2	10
33018	4700	av	W	with many 3-5 mm milky quartz veinlets	28.3	54.7	44.7	741	91.9	6	10
13023	5600	av	W	silicified and pyritized vesicular volcanics	305.5	134.9	992.7	1416	224.2	< 2	8
33015	4350	av	W	volcanic breccia; very oxidized	80.6	19.4	160.8	281	6.6	3	8
33028	5000	av	W	float; grab	371.5	24.1	176.8	3497	62.9	4	8
33023	5100	av	W	as above	81.8	25.8	372.6	658	42.2	< 2	7
23014	5200	av	W	dg green volcanic	102	43.3	48.1	426	46.1	< 2	6
23040	5100	av	W	vol breccia; minor py	170.3	3409	1089.4	2196	36.8	< 2	6
33026	5000	av	W	float; grab	21.6	26	132.5	717	19.1	5	6
13063	5250	av	W	East wall; calcite filled vesicules; well fractured	70.8	39.9	261	1405	3.9	< 2	5
13074	5600	av	W	sub volcanic; matrix is cockade qtz wih epi; no sulphides	64.7	806.7	130.5	1232	10.9	< 2	5
13026	5500	av	W	10% tetrahedrite with malachite in kspar porph flow	2012.9	37.8	704.6	319	6.3	< 2	4
23036	5300	av	W	vesicular; 1% py	115.1	161.3	590.3	1885	54.9	< 2	4
23062	5100	av	W	as above	1634.2	3747.4	637.5	12996	183	< 2	4
33032	5680	av	W	float; grab	281.8	16.1	161.3	203	11.8	< 2	4
33036	5200	av	W	agglomerate float	193.1	279.5	186.5	3598	7.3	< 2	4
13076	5650	av	W	sub-vol with geodes to 5 cm; no sulphides	59.2	269.3	228.1	733	8.6	< 2	3
23038	5200	av	W	minor py/cpy/hem	32.7	123.3	277.3	324	21.1	< 2	3
13038	5350	av	W	Tr7-1; HW vesicular; filled with chalcedonic qtz; brecciated; ~5% sulphides	70	207.3	543.2	646	20.4	3	2
13047	5200	av	W	agglomerate with 2% py	19.6	111.7	113.6	808	4.8	< 2	2
13053	5250	av	W	hornfelsed vol. mag 1%; vfg fram py on fra to 1%	57.7	30	55.5	973	2.5	4	2
13057	5300	av	W	Non mag feldspar phyric vol breccia > epidote	45.8	15.5	123.2	536	2.8	< 2	2
13068	5050	av	W	vesicular flow over tuff; cpy? 1%; epi 50%; calc 25%; non mag; no hematite	606.4	1476.1	84.1	1492	1.7	2	2
23042	5650	av	W	<1% py; minor hem	4757.4	190.5	22.4	5032	46.8	24	2
13055	5250	av	W	Magnetic. feldspar phyric vol breccia	12.6	13.1	94.8	281	1.2	< 2	1
13056	5300	av	W	Non mag feldspar phyric vol breccia	19.7	17	133.6	306	2	< 2	1
13059	5300	av	W	slightly calcareous; non mag; no hem, min ep	99.5	14.6	77.2	287	5.1	< 2	1
13060	5250	av	W	slight mag, no ep; no hem; calc on fractures.	141.7	17.4	101.5	1466	4	2	1
13061	5250	av	W	agglomerate; pink at clasts;calcareous; minor hem	96.7	42.5	126.5	604	3.4	< 2	1
13065	5250	av	W	Wallrock; Calcareous and hematitic. No sulphides; non mag	72.8	11.5	114.5	474	2.8	< 2	1
13067	5250	av	W	breccia; Pink alt; 5% py; calc; on mag; no epi	116.4	83.4	133.6	407	8.4	2	1
13077	5600	av	W	contact between above and agglomerate; epi alt	304	62.4	164.6	247	12.1	< 2	1

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
23052	4750	av	W	<2% py	32.3	97.2	75.7	861	19.8	2	1
23054	5300	av	W	agglomerate; cpy pods minor malachite	43.4	735.8	17.3	1351	10.5	4	1
23055	5300	av	W	agglomerate; cpy pods minor malachite	69.2	1385.4	262	1939	27.3	< 2	1
23056	5550	av	W	tuff?; minor py/cpy/mal	175	178.5	173.8	525	13.8	< 2	1
13003	4500	bv	W	olivine basalt flow	69.3	128.9	227.9	463	10.7	< 2	2
13070	5100	db	W	altered dyke; mang coated; vf qtz stringers	2446.1	3826.2	2005.8	17279	42.8	3	34
13017	4900	db	W	basalt dyke with 5% pyrite	172.4	21	70	519	9.7	2	8
13058	5300	db	W	no sulphides	82.4	24.8	142	784	1.8	< 2	1
13069	5100	db	W	black vfg dyke; 10 m wide; mag; calc; no sulphides visible	74.1	21.3	101.7	290	1.6	< 2	1
13051	5550	dp	W	brecciated with 1-2% pyrite. spec hem on open fractures	1205.1	837.9	193.3	99999	55.4	8	82
13052	5550	dp	W	green fg dyke, 2 m wide, spec hem as blebs, fra filling and replacement(?)	1384.6	663.8	439.4	14324	51	103	41
23035	5400	dp	W	fine grained, silicified; <1% sulphides	244.1	848.1	1274.3	4783	48.3	< 2	18
23017	5400	dp	W	felsic dyke; 5 cm wide	36.2	113.6	72.3	6118	7.2	5	7
13025	5600	dp	W	bleached porphyry dike with 10% tetrahedrite? and malachite	14.7	65.3	51.8	355	14.1	3	2
33016	4350	dp	W	float	6.2	23.2	70.7	110	3.3	3	2
13002	4700	dp	W	<2 m feldspar porphry dyke with 10% py as <2mm cubes	39.3	90.2	204.3	625	83.5	< 2	1
13054	5250	dp	W	QFP 4 m wide; 1% py	24.3	41.6	48.9	855	1.4	2	1
23022	5950	dp	W	altered porphyry dyke; 10% py; feox	2994.2	745.2	129	6550	238.9	167	1
13019	5600	f	W	limonitic, manganese stained fault zone in trench 64-3	253	3411.5	2001.9	20021	166.3	< 2	12
23029	5450	mv	W	vuggy quartz vein; gn	7450.5	21821	1871.5	99999	1740.5	< 2	13700
23033	5450	mv	W	minor gn, minor malachite	9288	21826.5	6319.5	53680	161.5	7	3420
13028	5400	mv	W	near massive galena with minor pyrite	75.1	16225.5	715.4	99999	14	< 2	2540
23018	5400	mv	W	massive galena with poddy pyrite	106.2	18688.1	136.2	99999	10	< 2	1960
23059	5450	mv	W	3% gn; heavy feox	3284.4	23149.7	977.7	99999	1134.1	8	1752
13040	5250	mv	W	float 5m above tr7-4; massive gn with tetra in 10-15 cm vein	9683	18995.5	1038.6	99999	< 4.5	< 2	1593
23058	5650	mv	W	15 cm wide; 1cm pec hem; <1% py	163.1	902.8	165.6	29634	472.4	16	1275
13071	4950	mv	W	15-20 cm vein/fault abu limonite in boxwork; no manganese	2759.2	3401.6	506.2	99999	311.8	2	1228
23024	5800	mv	W	10 cm; 5% gn, <5% py, cpy, aspy?	7418.5	20113.2	1147.3	99999	624.6	11	1087
33038	5400	mv	W	from trench; qtz with hematite	2765.1	5498.8	825.4	97203	299.6	96	1028
13073	5300	mv	W	5 m wide QFP with .5 m wide sheared qtz vein; gn scattered to 5%	1831.5	25795.6	176.3	99999	479.7	4	1024
13042	5250	mv	W	tr7-4; HW vein, gn in 5 cm vein adj to clay alt qfp (45/55se)	3898.3	21453.8	833	99999	< 5.0	2	999
13044	5200	mv	W	tr7-5; gn rich section, 5-10 cm wide	594.4	23911.5	1414.9	99999	69.5	12	884

ROCK SAMPLE DESCRIPTIONS

t+tourmaline vein; mv= mineralized vein; dp= porphyry dyke; db= mafic dyke; bv= basalt volcanic; av= andesite volcanic; p= plutonic; f= fault

Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
13043	5200	mv	W	tr7-5; hem rich vein section ~20 cm wide	653.9	13927	1173.1	31158	93.4	43	790
13041	5250	mv	W	tr7-4; FW vein; clay alt with 2% gn and 5% spec hem; 3% vfg py	820.9	24458.8	1043.6	27784	88.7	19	550
13072	4950	mv	W	as above with minor pyrite and malachite	11258.9	16789	1119.1	99999	263.7	< 2	439
33017	4700	mv	W	quartz vein float <1% py	14.2	3325.7	13.3	99999	57.5	5	309
13039	5300	mv	W	Tr7-2; best in trench. minor galena	2740.6	25320.4	1490.2	99999	17.4	8	266
23023	5850	mv	W	quartz vein; 7cm; minor py/cpy; heavy mang & feox coated	3042.6	11130	688.9	99999	188.1	21	258
13062	5250	mv	W	12 m wide vein/fault; qtz breccia with chalcedonic qtz healing. 25-30% sulphides	388.5	2456.8	7624.9	13808	175.1	< 2	251
13036	4850	mv	W	5 cm drusy quartz vein with 1% py and gn.	161.5	1257.9	6870	2564	71.1	< 2	144
23053	5150	mv	W	massive galena with poddy pyrite	1096.7	22800.8	229.5	99999	256.3	3	107
23034	5450	mv	W	<1% gn	508.9	10847.3	1960	21864	34.6	3	97
13064	5250	mv	W	Brecciated vol agg; py veinltts; healed with pink dolomite and calcite 10% py	30.2	366.6	803.3	3717	114.5	2	74
33033	5450	mv	W	float; grab; massive hematite; minor py/aspy?	111.1	53.7	414.2	7272	48.9	173	65
13037	5350	mv	W	Tr7-1; alt QFP dyke; with mang, mal, and az ~ 1.5 m wide	4487.3	8587.7	15889	9692	41.4	32	63
33021	5100	mv	W	vein float	135.1	1500.2	2205.3	4737	353.1	< 2	40
13018	5000	mv	W	8-10cm quartz vein with minor galena.	73.8	463.8	1576.5	1307	11.7	7	34
13066	5250	mv	W	vfg pale green qtz kaolin vein? with 5% diss py.	64.7	953	2430.2	3180	101.7	< 2	33
23012	4950	mv	W	3 cm vein with 5% pyrite; mang	388.2	160.5	72.3	2523	143.6	5	24
23010	4800	mv	W	quartz breccia; mang; feox; no sulphides	10	60.9	34.2	683	15	4	12
23009	4800	mv	W	3 cm vein with <1% pyrite	61	81.6	170.2	1713	94.7	5	7
13034	5500	mv	W	spongy quartz vein with abu chlo, small qtz xtall lined vugs; ~5% galena(5cm)	180.2	16465.8	37570	10152	20	< 2	4
23011	4950	p	W	quartz monzonite	66.5	200.3	140.4	2587	85.6	5	30
13015	4800	p	W	prop alt monz with 10% py, <1% aspy; slight silicification	188.1	111.4	217.7	1812	691.6	4	8
23005	4850	p	W	non mag; weak calc; minor py	89.1	662.1	1963.1	931	11.8	3	8
13011	4750	p	W	3mm tourmaline veinlets cutting monz. minor py, pyrr	14.6	68.3	192.5	633	140.6	5	6
13008	4550	p	W	as above, altered, mang coated	7.4	29.1	195.4	83	8.6	5	4
13012	4750	p	W	as above	11.3	34.5	77.4	196	13.3	6	3
13014	4750	p	W	prop alt monz	56.8	143.7	424.3	1041	13.6	5	3
13006	4950	p	W	as above	12.8	31.1	66.2	95	11.8	4	2
13007	4550	p	W	as above, unaltered	7.8	24.2	43	39	9.4	5	2
13009	4500	p	W	as above, more fractured with healing but not mineralized. Narrow tour veins; >qtz	6.2	36.4	206.9	95	6.1	3	2
13010	4900	p	W	as above, alt veins to 10 cm.	20	60	114.1	206	7.3	3	2
23006	4850	p	W	mag; non calc; minor py	43.1	120.1	132.6	481	9.5	3	2

ROCK SAMPLE DESCRIPTIONS

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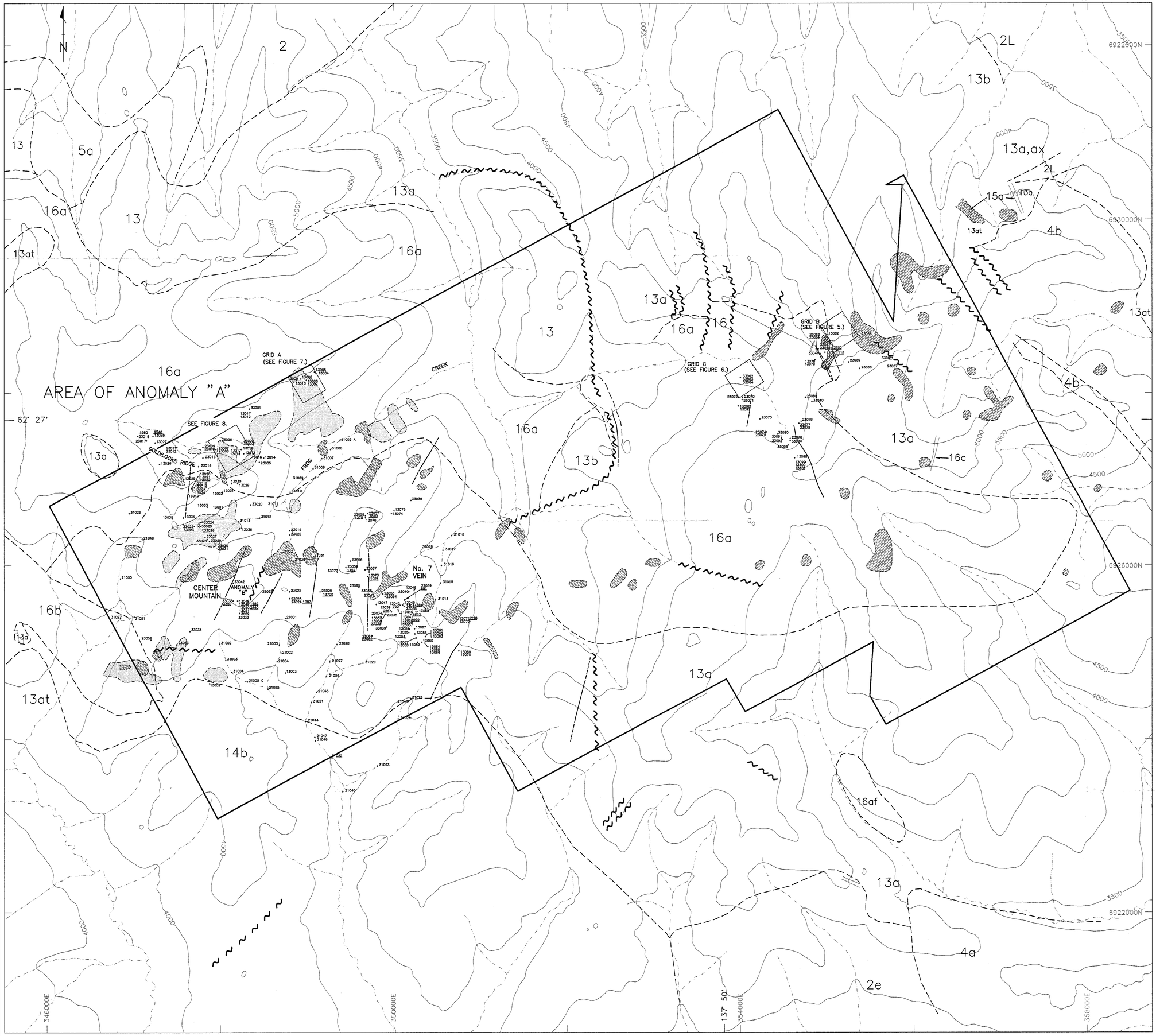
Sample #	Elevation	Type	EW	Description	Cu	Pb	ppm Zn	ppb Ag	ppm As	ppm W	ppb Au
13004	4950	p	W	hb, biotite monzonite; fresh	14.2	30.9	98.2	148	8.4	5	1
13005	5050	p	W	as before but propylitically alt. Strongly magnetic	8.7	23	39.6	< 30	8.6	3	1
23041	5350	p	W	<1% py; minor hem	119.2	95	137.7	635	19.2	< 2	1
13027	5500	t	W	minor calcareous tourmaline vein to 8cm with minor cpy/py	17.8	200.1	199.5	991	5.9	21	211
33001	4800	t	W	tourmaline vein	82.5	846	27.2	20983	91.8	5	130
33002	4800	t	W	tourmaline vein	43.3	629	20.3	11299	365.1	5	67
13032	5000	t	W	20 cm tourmaline vin with hematite	400.8	1067.5	189.5	26711	367.4	10	64
33007	4900	t	W	tourmaline vein	40.5	1182.1	14.5	33311	1019.3	4	49
13033	5250	t	W	qtz tourmaline breccia with 5% pyrite	207.1	7483.2	183.9	99999	753.6	4	45
13031	5000	t	W	25 cm tourmaline vein with some fresh pyrite	167.9	1223.9	97	10036	914.7	2	33
33014	4900	t	W	tourmaline vein	68.3	174.9	11.9	2552	55	5	27
33013	4900	t	W	tourmaline vein	13.8	270	39.9	8765	44.4	3	26
33006	4900	t	W	tourmaline vein	15.4	606.1	10.1	12607	241.7	84	25
13030	5000	t	W	10 cm tourmaline vein with limonitic boxwork/3-5 % pyrite	14.9	207.8	105.2	4142	73.6	6	24
33005	4900	t	W	tourmaline vein	45.4	1036.3	45.8	3313	1222.6	6	21
33009	4900	t	W	tourmaline vein	14	462.8	13.9	7333	291.1	5	21
13013	4950	t	W	12 cm wide tourmaline vein with limonite. Minor aspy/py	47.4	576.2	27.6	14914	226.8	7	18
33010	4900	t	W	tourmaline vein	9.1	170.7	12.1	2070	49.3	3	18
33012	4900	t	W	tourmaline vein	14.3	309.1	19.7	3087	18.6	5	15
13016	4800	t	W	10 cm tourmaline vin. No sulphides visible	21.6	905.5	11.7	47427	185.8	4	12
13029	4950	t	W	10 cm tourmaline vein with limonitic boxwork	18.7	693.2	12	4244	92.3	4	12
33011	4900	t	W	tourmaline vein	12.2	347.6	202.6	8118	38.6	4	11
33004	4900	t	W	tourmaline vein	16.1	169.6	9.7	3221	72.7	4	9
23013	5050	t	W	quartz tourmaline breccia; poddy py; minor malachite	1069.4	2222.9	362.7	77350	369.1	5	7
33003	4800	t	W	tourmaline vein	19.6	104.3	76.8	1861	15.8	5	7
33008	4900	t	W	tourmaline vein	25.7	186	238.8	2513	134.4	8	7
13001	4800	t	W	brecciated tourmaline vein with 5% py, <1% aspy	8.2	18.3	68.1	124	33.4	< 2	5
33019	4700	t	W	5 cm qtz veins with 2-3 mm black bands (tour?) ~5% py; pitted & lim coated	16.1	187.2	170	2249	46.9	3	5
13075	5600	t	W	tourmaline veins(?); tour suns to 4cm; tetrahedrite ?	26.3	221	138.8	766	13.8	3	3
23021	5950		W		14.1	215.2	168.7	603	8.8	< 2	1



LEGEND

- ELEVATION CONTOUR (500 ft INTERVAL)
- CREEK
- GEOLOGICAL CONTACT
- FAULT
- VEIN, DEFINED
- VEIN, INFERED
- DIKE
- CLAIM GROUP BOUNDARY

GEOCHEMICAL ANOMALIES

- >130 Cu (ppm) *. LOCATION AND SIZE ESTIMATED
- 100 Cu (ppm) **.
- As ANOMALY

∘ 23059 / 1752 — SAMPLE LOCATION, Au VALUE PPB

23099
- SAMPLE NUMBER
- SAMPLE TYPE 1:SILT 2:SOIL 3:ROCK
- SAMPLER

LITHOLOGIES

16 PROSPECTOR MTN. SUITE
- 16a QUARTZ BEARING MONZONITE
- 16af FINE GRAINED VARIETY
- 16b QUARTZ MONZONITE
- 16c LATITE, QUARTZ BEARING LATITE DYKE

CARMACKS SUITE
- 15 LATE DYKES, INTRUSIONS
- 14 UPPER VOLCANIC SECTION,
- 14b PERDOMINATLY BASALTIC
- 13a LOWER VOLCANIC SECTION
- 13at PREDOMINATLY ANDESITE
- 13b RHYODACITE TUFF

9 MOUNT NANSEN SUITE
- LATE DYKES, INTRUSIONS

5 DAWSON RANGE BATHOLITH
- HORNBLENDE BIOTITE POTASSIC QUARTZ DIORITE

BIG CREEK SUITE
- 4a MONZONITE, DIORITE, HORNBLENDITE
- 4b MONZONITE, DIORITE, HORNBLENDITE

2 PALEOZOIC–PROTEROZOIC BASEMENT METAMORPHIC COMPLEX
- 2e QUARZ–FELDSPATHIC GNEISS/SCHIST UNIT
- 2L RECRYSTALLIZED LIMESTONE
- 1 METASEDIMENTARY UNIT

MODIFIED FROM:
PAYNE et al, 1987
ARCHER, CATHRO, 1980,81,82
HILKER, 1973

GEOCHEM:
*. OCCIDENTAL MINERALS CORP. OF CANADA, 1971
**. ARCHER, CATHRO & ASSOSCIATES (19810 LTD., 1983

1000 500 0 200 400 600 800 1000
metres

TROYMIN RESOURCES LTD.

HAYES CLAIMS

WHITEHORSE MINING DISTRICT, YUKON TERRITORY

093748

PROPERTY GEOLOGY

Dwg 1

Aurum Geological Consultants Inc.		Date: SEPTEMBER, 1997	
NTS: 115 I/5	Drawn: JC	Scale: 1:20,000	Figure: 4