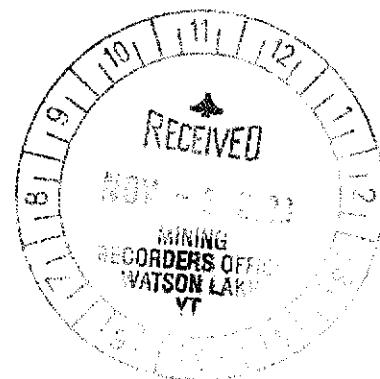


094146 **Athlone Minerals Ltd.**

**2000 GEOLOGICAL MAPPING, PROSPECTING,
AND SOIL SAMPLING PROGRAM
ON THE HY PROPERTY**

Hyland River Area
Watson Lake Mining District
NTS 105H/15
61° 56' North Latitude
128° 40' West Longitude



-prepared for-

ATHLONE MINERALS LTD.
709-700 West Pender Street
Vancouver, B.C., Canada
V6C 1G8

-prepared by-

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Date Worked: September 6-16, 2000

October 2000

This report has been certified by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 16,800.

M. Buh

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

SUMMARY

The Hy Property is located north of the Hyland River, approximately 180 kilometres north of Watson Lake in the southeastern Yukon. The property is situated ten kilometres west of the Nahanni Range Road and is comprised of 48 claims within the Watson Lake Mining District. The Hy Property was staked by Phelps Dodge Corporation of Canada, Limited in 1996 based on anomalous results from a regional stream sediment sampling program. Athlone Minerals Ltd. currently holds an option from Phelps Dodge to earn a 100% interest in the property and funded the 2000 exploration program, which consisted of geological mapping, prospecting and soil sampling was carried out on the Hy Property.

The Hy property lies towards the southeast end of the Tintina Gold Belt, an arc of gold deposits associated with similarly-aged, metallogenically-linked, lithophile-enriched intrusions, that stretches from southeastern Yukon to southwest Alaska. This belt is host to Au deposits at Donlin Creek (11.4 Moz Au, Ebert et al, 2000), Fort Knox (5.05 Moz Au, Bakke et al, 2000), Pogo (5.2 Moz Au, Smith et al, 2000), Dublin Gulch (3.81 Moz Au, Hart et al, 2000) and Brewery Creek (615 000 oz Au, Hart et al, 2000).

The geology of the Hy Property has many similarities to the Brewery Creek deposit. The Brewery Creek deposits are located along the 12 km-long "reserve trend" and lie up to 4 km north of the related Tombstone Plutonic Suite intrusions and their thermal aureoles. This mineralized trend and mineralized monzonite sills are controlled by several through-going thrust faults, which dip moderately to the south towards the TPS intrusions. Steep faults and "flat-bottomed" normal faults are common hosts for mineralization and may be linked with the shallower thrust faults. Reactivation of the thrust faults would permit focused fluid flow along permeable conduits driven by thermal gradients.

The Hy Property is located within a sequence of folded and faulted siliciclastic, continental-margin late Proterozoic to early Cambrian Hyland Group sediments. These rocks have been intruded by granitic bodies within several kilometres of the Hy Property, which may have provided the heat necessary to drive hydrothermal activity. Alteration and Au mineralization on the Hy Property appear to be controlled by at least two factors: fault structures and host rock lithology. Several faults cut through the stratigraphy, providing fluid conduits to receptive units within the local stratigraphy. Quartz veining is much more common in silicic units, as a result of their ability to fracture more readily under strain. Mineralization consists of arsenopyrite, galena and lesser pyrite, within quartz veins and stockworks. This style of mineralization is found in two sub-parallel, northwest-trending bands across the south-central part of the property over an area measuring at least 1500 by 1000 m.

Exploration to date on the Hy Property has delineated two zones of anomalous Au geochemistry in soils and rocks in the southern half of the property. These 1400 by 100 m and 900 by 350 m anomalies are directly related to exposures of quartzite with structurally-controlled quartz-arsenopyrite±galena±pyrite veining, associated with northwest-striking brittle faults. Gold mineralization is also common in coarse quartz-sulphide veins hosted within shales throughout the property and as replacement-style mineralization within quartzites. The 2000 work program was designed to evaluate the northern half of the property for strike extensions of this mineralization. Soil grid extensions into the northern area returned relatively subdued Au soil geochemistry, although related pathfinder elements are locally strongly anomalous. Mapping and prospecting in the northern area (while not locating similar Au grades to the south) identified similarly mineralized and prospective lithologies.

It is recommended that additional work be done on the Hy Property to fully define the extents of mineralization identified to date. A program of ground geophysics with trenching and/or diamond drilling will effectively test the extents of the fault- and lithologically-controlled mineralization of the East and West Gold Zones. Additional mapping and sampling should be carried out in the north cirque to fully evaluate the potential for strike extensions to the East and West Gold Zones. Further exploration should also be directed towards replacement-style mineralization, particularly within quartzites and limy sediments or limestones.

2000 GEOLOGICAL MAPPING, PROSPECTING, AND SOIL SAMPLING PROGRAM ON THE HY PROPERTY

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1.0 INTRODUCTION

The Hy Property is situated in the southeastern part of the Yukon, 180 kilometres north of Watson Lake (Figure 1). The property was originally staked by Phelps Dodge Corporation of Canada, Limited in the fall of 1996 based on encouraging results from a regional stream sediment sampling and prospecting program intended to detect sediment-hosted gold mineralization. In 2000, Athlone Minerals Ltd. acquired an option on the property from Phelps Dodge Corporation of Canada, Limited.

Between the dates of September 6 and 16, 2000, Athlone Minerals Ltd. funded an exploration program emphasizing geological mapping and rock and soil sampling. This work was completed by Equity Engineering Ltd. for Athlone. Equity has also been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

The Hy Property consists of 48 quartz mineral claims, located in the Watson Lake Mining District (Figure 2), records indicate Phelps Dodge Corporation of Canada, Limited as the registered owner of these claims. Athlone Minerals Ltd. has an option to earn a 100% interest in the Hy Claims by expending \$450,000 in exploration over a four year period. Claim data for the Hy Property is summarized in Table 2.0.1.

TABLE 2.0.1
CLAIM DATA

Claim Name	Grant Number	No. of Claims	Expiry Date*
Hy 1-8	YB87384 - YB87391	8	March 17, 2005
Hy 25-36	YB87408 - YB87419	12	March 17, 2005
Hy 38	YB87421	1	March 17, 2005
Hy 49-75	YB87432 - YB87458	27	March 17, 2005
Total Claims		48	

* Expiry dates for the Hy Claims are subject to approval for assessment credit of work covered by this report.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Hy Property is situated in the Logan Mountains, approximately 180 kilometres north of Watson Lake in the southeastern Yukon (Figure 1). The property is located 10 kilometres west of the Nahanni Range Road, which runs north from the Robert Campbell Highway in the Yukon to Tungsten, Northwest Territories. The centre of the property is approximately 61° 56' North latitude, 128° 40' West longitude. The property lies several kilometres from the border of the Northwest Territories, on the north side of the Hyland River valley. Access to the property was gained by charter helicopter, mobilizing from a washout on the Nahanni Range Road some 30 kilometres to the southeast. A temporary Bailey bridge has since been established to traverse this washout which will enable more direct access via helicopter from this road.

The property encompasses two-easterly-draining cirques with rugged north-facing slopes, that drain into the broad, U-shaped valley along the eastern boundary of the claim package. Elevations on the property range from approximately 1200 metres to just over 2000 metres. Vegetation consists of dwarf black spruce forest below tree-line at about 1400 metres, and is dominated by alpine vegetation and scrub brush above that level.

Mid-Cretaceous Plutonic Rocks

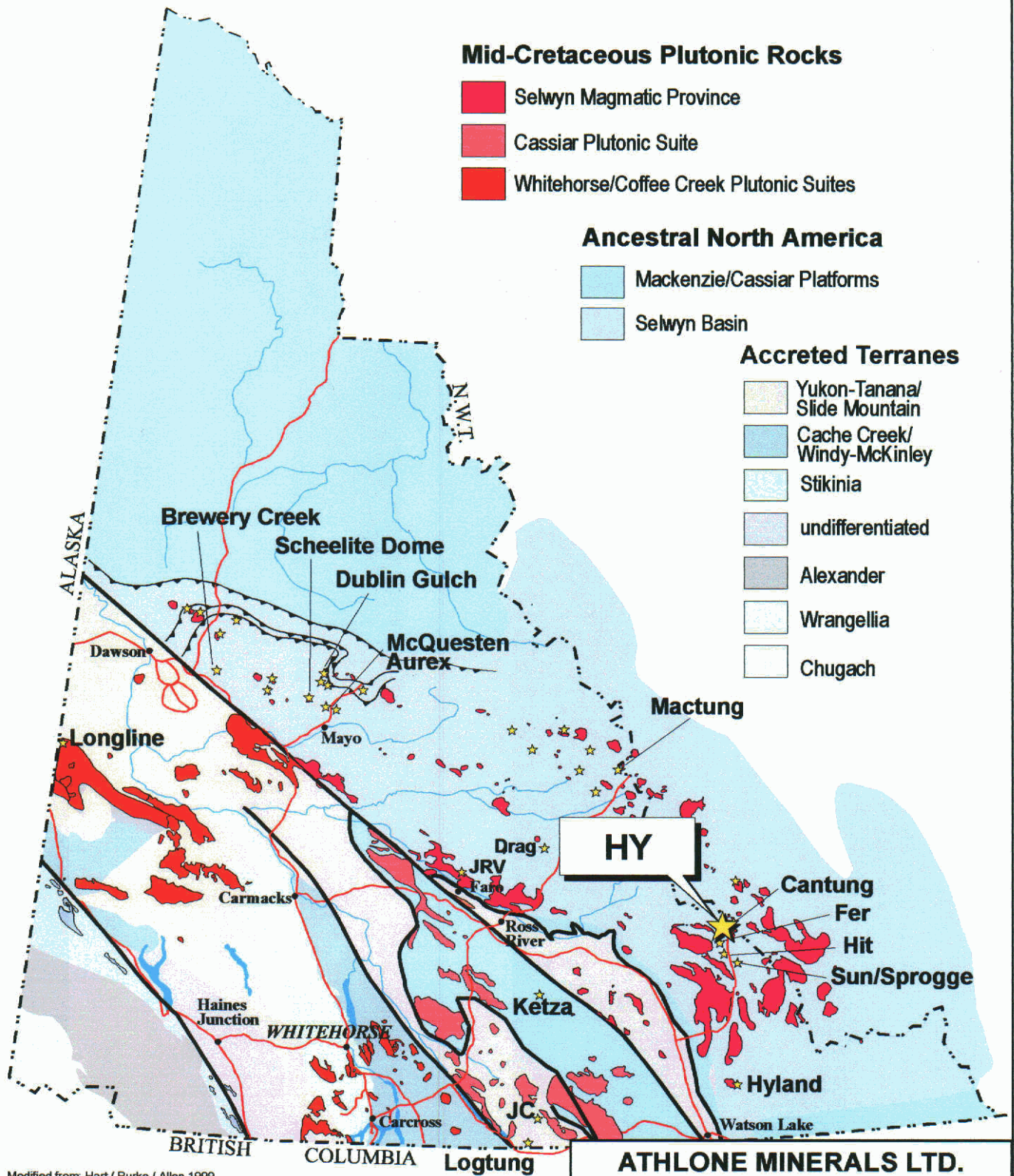
- Selwyn Magmatic Province
- Cassiar Plutonic Suite
- Whitehorse/Coffee Creek Plutonic Suites

Ancestral North America

- Mackenzie/Cassiar Platforms
- Selwyn Basin

Accreted Terranes

- Yukon-Tanana/Slide Mountain
- Cache Creek/Windy-McKinley
- Stikinia
- undifferentiated
- Alexander
- Wrangellia
- Chugach



Modified from: Hart / Burke / Allen 1999

094146

0 Scale 200
km

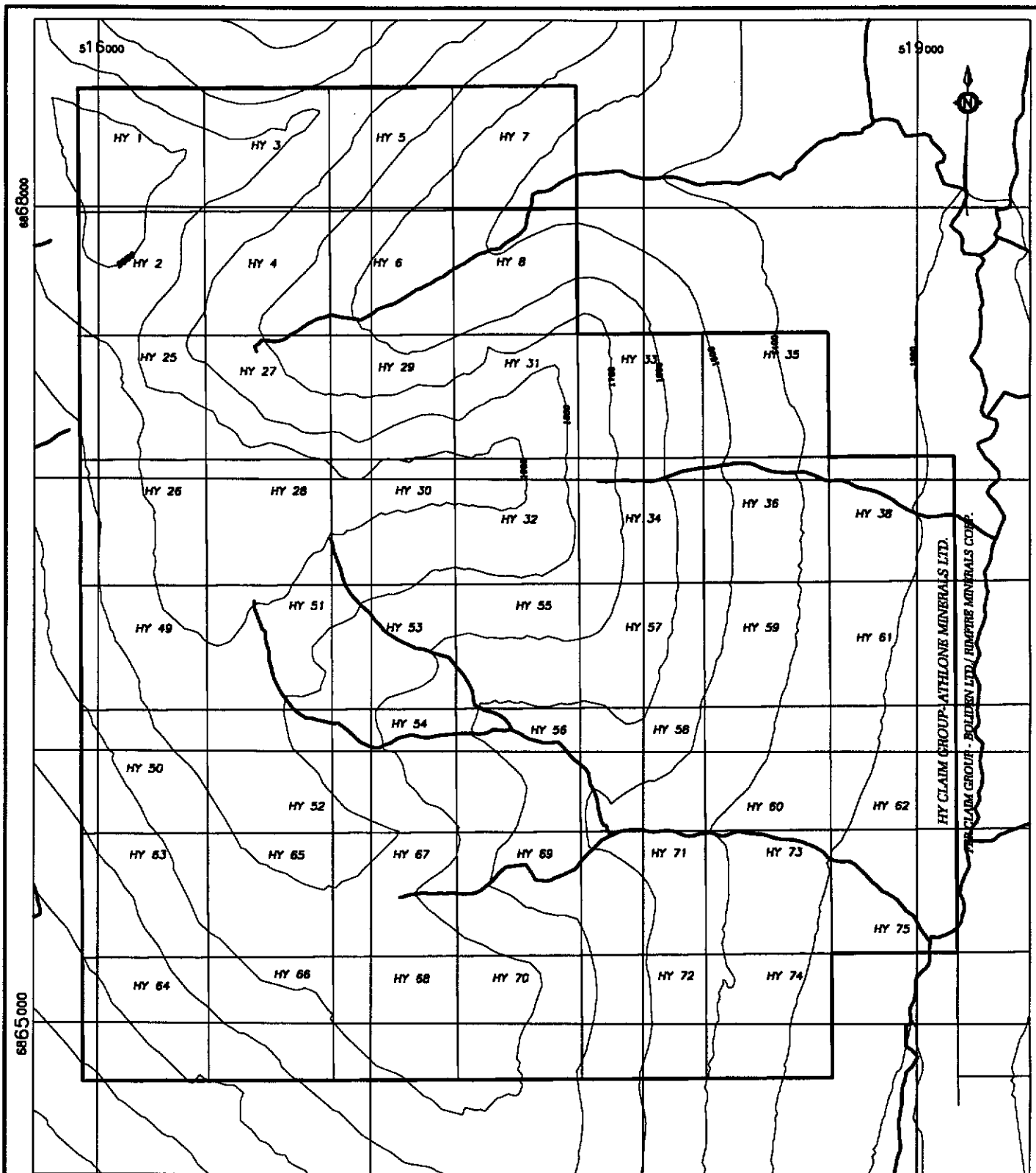


ATHLONE MINERALS LTD.

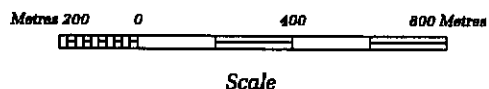
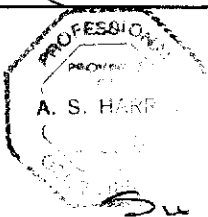
Hy Property

Location Map

	Date	October 2000	Scale	as shown	Figure
	UTM Zone	UTM 9(NAD27)	Mining District	Watson Lake	1
	NTS	105H/15	State/Prov.	Yukon	



HY CLAIM GROUP - ATHLONE MINERALS LTD.
 THE CLAIM GROUP - BOLDEN LTD. / RUMPTRE MINERALS CORP.



ATHLONE MINERALS LTD.

Hy Property

Claim Map



Date	/94	Scale	1:20,000
U.T.M. Zone	Zone 9 (NAD 27)	Mining District	Watson Lake
R.T.S.	105H/15	State/Province	Yukon

4.0 PROPERTY EXPLORATION HISTORY

The Hy Claims were staked in the fall of 1996 by Phelps Dodge Corporation of Canada, Limited following the discovery of anomalous gold values in rock and silt samples by a reconnaissance sampling program. The following year, Phelps Dodge identified two anomalous trends of Au mineralization in soil and rock in the course of a prospecting, mapping and soil sampling program. The West Gold Zone is a narrow, linear belt 1250 metres in length with Au values of up to 484 ppb in soil and 8.74 g/t in rocks. The East Gold Zone, measuring 500 metres in length and 50 to 200 metres in width, returned Au values of 1259 ppb in soil and 37.6 g/t in rocks. In 1998, Paramount Ventures & Finance Inc. acquired an option on the Hy property claims and extended the soil grid, carried out further geological mapping and hand trenching. Unfortunately, the trenching failed to expose bedrock, and Paramount subsequently dropped their option on the Hy property.

The area has been mapped by the Geological Survey of Canada (G.S.C., Map 1966-6), and covered by a stream sediment sampling program sponsored by the federal government (Hornbrook and Friske, 1989). As well, the claim group was covered by an airborne magnetic survey, also sponsored by the federal government (G.S.C., Aeromagnetic Series, 1961).

5.0 2000 EXPLORATION PROGRAM

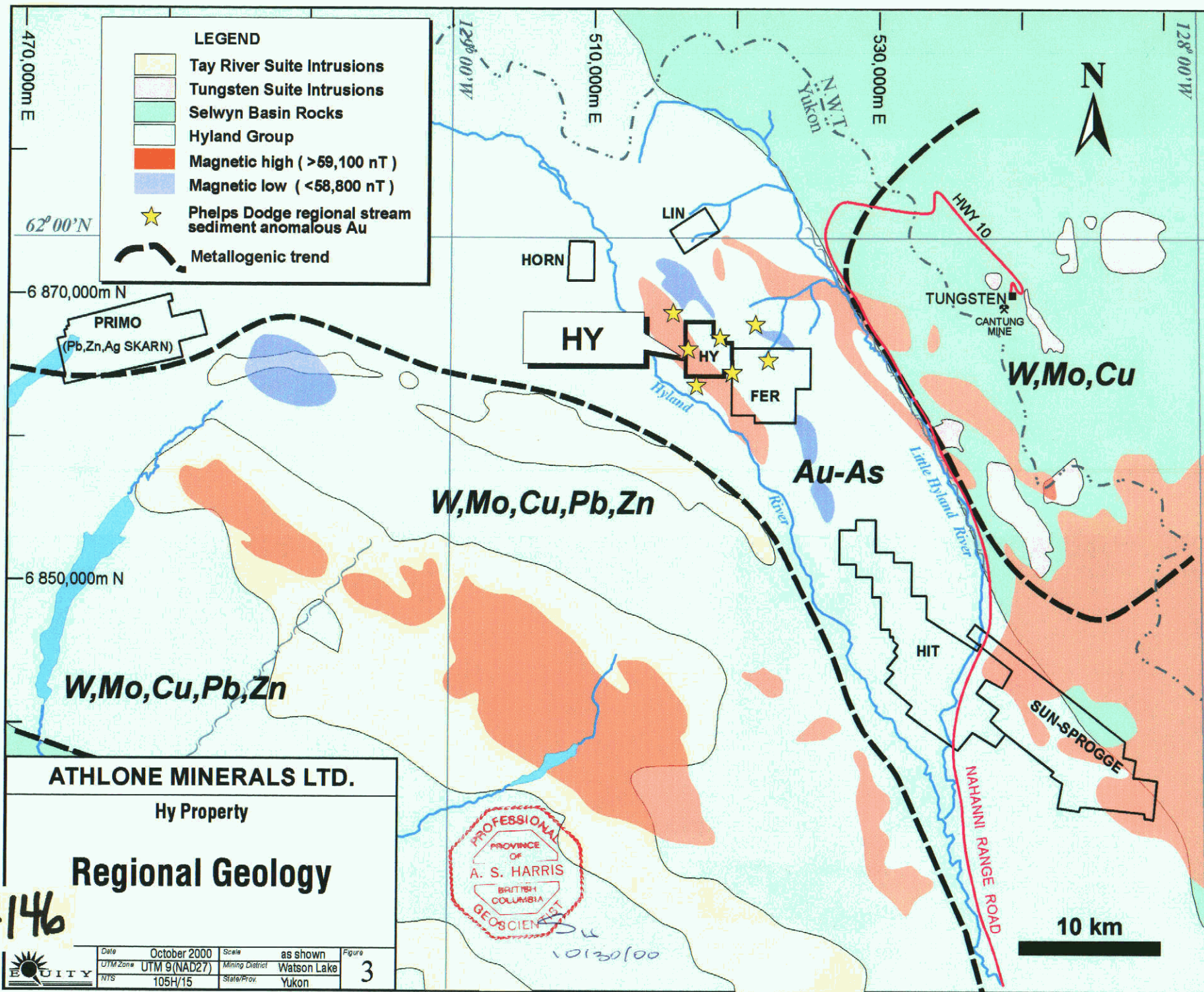
The main objective of the 2000 exploration program was to evaluate the northward strike extensions of the West and East Gold Zones into the northern cirque and determine controls on mineralization in the West and East Gold Zones. All work was conducted using a declination of 27°37' East and the NAD 27 datum. The program lasted from September 6 to 16 and consisted of one geologist, one prospector and two soil samplers, for a total of 44 man days.

The existing soil grid was extended into the north cirque from north-south baselines BL 10,000 E and BL 9,800 E along crosslines at 100 and 200-metre spacings (Figures 5a - 5d). A total of 268 soil samples, including 13 field duplicates and 5 blanks, were taken in the course of this work. Soil sampling was carried out on east-west crosslines at 50-metre sample spacings to the north and west of the existing grid. All soil samples were marked in the field by tyvek tags with the grid location, and orange flagging. Soil samples were collected from the "B" horizon where possible, or from colluvium or talus fines in areas of poor soil development. Soil samples were sent to Acme Analytical Labs Ltd. in Vancouver, B.C. for Au and were analyzed for Au and 36 elements by inductively coupled plasma-mass spectrometer. Analytical certificates, along with correlation tables and percentile analysis are attached in Appendix F. A review of field duplicate analyses are attached in Appendix G.

Prospecting and geological mapping was carried out over the West and East Gold Zones and into the north cirque. Rock samples were indicated in the field by a combination of pink and blue flagging and aluminium tags marked with the sample number. A total of 52 rock samples, including two blank samples were taken in the course of this work. All samples were sent to Acme Analytical Labs Ltd. in Vancouver, B.C. for Au by fire assay and atomic absorption and for 29 elements by inductively coupled plasma-atomic emission spectroscopy. Rock sample descriptions are attached in Appendix D and analytical certificates are attached in Appendix E.

6.0 REGIONAL GEOLOGY

The Hy Property lies within the Selwyn Basin in eastern Yukon, described by Abbott et al (1986) as comprised of Upper Proterozoic to Tertiary clastic, carbonate, volcanic, ultrabasic and granitic rocks. The Selwyn Fold Belt consists of a series of northwest-trending and -plunging, northeast-verging folds with strike lengths of 30 to 40 kilometres and amplitudes of one to two kilometres. The Hy property is underlain by a key component of this fold belt, the Neoproterozoic to Lower Cambrian Hyland Group



meta-sedimentary rocks (Figure 3). The Hyland Group consists of greater than 3000 metres thickness of siliciclastic and bioclastic, platformal and continental margin sedimentary rocks. The upper section of the Hyland Group (the Narchilla Formation) consists largely of shale (phyllites) and slates with lesser carbonates. A lower section is comprised the Yusezyu Formation and consists of quartzite, quartz grit, and quartz pebble conglomerate units interbedded with phyllite. Limestone beds are also present in the section.

Cross-cutting the Hyland Group meta-sedimentary rocks are Cretaceous intrusions of the Tay River and Tungsten Plutonic Suite. These intrusive suites are two of a series of similarly-aged, metallogenically-linked, lithophile-enriched intrusive suites that stretch in a broad arc from southeastern Yukon to southwest Alaska. This arc, informally named the Tintina Gold Belt, is host to Au deposits at Donlin Creek, Fort Knox, Pogo, Dublin Gulch and Brewery Creek. Heffernan and Mortensen (2000) have established U/Pb ages of 98-96 Ma for Tay River Suite intrusions and 97-92 Ma for Tungsten Suite intrusions. The regional airborne magnetic maps for the Hyland River area reveal two distinct magnetic signatures associated with these intrusions relative to the country rocks: a strong, positive magnetic response, and a very weak or negative magnetic response. The highly magnetic response seems to be mainly associated with the larger, batholithic intrusions of the Tay River Suite to the south and west of the Hy Property. These intrusions have ill-defined boundaries consisting of mixed intrusive, migmatitic and gneissic rocks. The weak to negative magnetic responses appear to be more commonly associated with smaller Tungsten Suite intrusions that possess sharp contacts, and pronounced metamorphic aureoles, and are characterized by gossans (after pyrite, pyrrhotite, or biotite?). An elongate example of this type of intrusion occurs just south of the Hyland River, about five kilometres south of the Hy Property, and has been dated at 92.5 Ma by Heffernan and Mortensen.

Generally, bedding and fold axes trend northwesterly to westerly with moderate to steep dips. Linear valleys are common in this area indicating the presence of significant faults (interpreted from the regional magnetic patterns). Faults are of diverse orientation, although north- to northeast- and northwest-trending faults with steep dips are prevalent. Several roughly north-south structures are evident in the drainage patterns and apparent left-lateral offset can be deduced from the magnetic maps. The Hyland and Little Hyland Rivers occupy large, linear, northwest trending valleys which may represent major strike-slip or thrust faults.

In southeast Yukon, the Tungsten and Tay River Plutonic Suites are associated with W-Mo-Cu and W-Mo-Cu-Pb-Zn metallogenic trends, respectively. The Howards Pass and Tom-Jason Pb-Zn deposits are hosted within Hadrynian and Lower Paleozoic strata. Northeast of the Hy property, the Cantung and Mactung W-skarn deposits are directly related to Tungsten Suite Cretaceous intrusions. These metallogenic trends are bisected by a northwest-trending corridor of Au-As occurrences that encompass the Hy, FER, Hit and Sun/Sprogge properties. Detailed mapping and sampling by Rimfire Minerals Corporation on the adjoining FER property has identified auriferous quartz veining and stockworks with pyrite and lesser arsenopyrite within Hyland Group quartzites below their contact with overlying phyllites (Jones and Caulfield 2000). Hudson Bay Exploration and Development Company Limited has carried out geochemical sampling, mapping, prospecting, airborne geophysics and diamond drilling on the Hit property, but have not released results from these programs. NovaGold Resources Inc.'s Sun/Sprogge property hosts mineralization in Hyland Group siliciclastics that is likely related to the presence of monzonitic to granitic dykes. Au mineralization has been identified with silicification, quartz veining and argillic alteration in coarse clastics, and in retrograde massive sulphide skarns and chalcedony-arsenopyrite veining. NovaGold has reported results of 2.38 g/t Au over 22.5 metres from chip sampling across a zone of skarn mineralization (Burke, 2000). Rocks of the Hyland Group host the Hyland Gold occurrence (Bremner and Ouellette, 1990), about 150 kilometres to the south-southeast. An inferred oxide reserve of 6.75 Mt at a grade of just under 2.0 g/t Au is controlled by north-striking structures that have preferentially brecciated, altered and mineralized Hyland Group phyllite, quartzite and grit units.

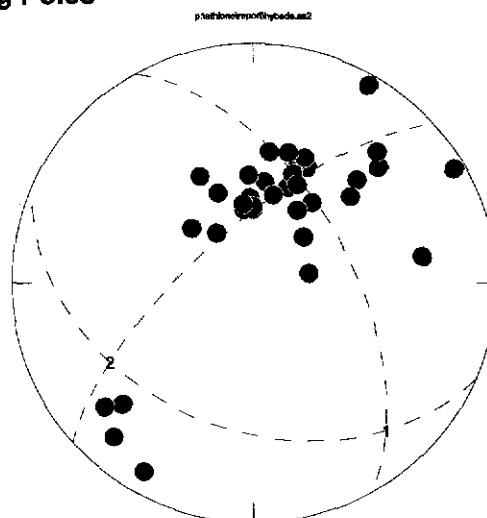
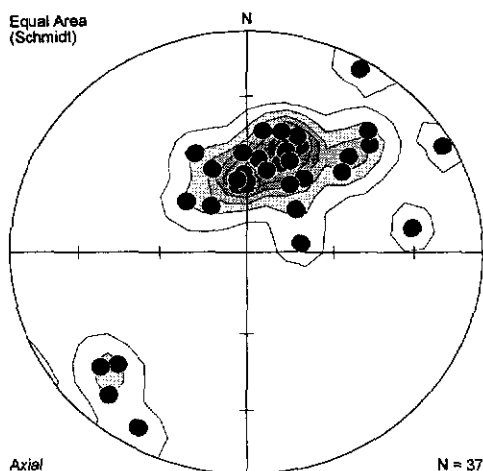
7.0 PROPERTY GEOLOGY

7.1 Lithology and Structure

The Hy claims are underlain by siliciclastic metasedimentary rocks that have been assigned to the Upper Proterozoic Yusezyu Formation of the Hyland Group. The Yusezyu Formation can be split into two dominant lithologies on the property; a quartzite-dominated and a shale-dominated unit (Figure 4). The quartzite unit, which weathers grey to white and is pale green to grey on fresh surfaces, is fine- to very coarse-grained with common quartz- and chert-pebble conglomerate. Disseminated pyrrhotite has been observed in the quartzite and conglomerate. Shale units are light to dark grey on weathered and fresh surfaces and are generally less resistant than the quartzites. Siltstones and sandstones (greywacke to quartzite), from 10 to 40 cm and up to 3 metres thick, locally are interbedded within the shales. The shale units are commonly limonitic and locally contain fine, bedding-parallel pyrite disseminations. Minor limestone has also been observed on the property, although not within the mapped area.

The Yusezyu siliciclastics are exposed in a south-southwest dipping homocline within the mapped area of the property, outcropping in 10 to 25 metre thick beds. This is reflected in the topography of the north and south cirques which have gently sloping north faces and rugged south faces. Graded bedding indicates that the sequence is stratigraphically upright. Variations in bedding orientation suggest open antiformal folding of the sediments and mapping has identified gently southeast-plunging fold axes, consistent with the stereonet analysis below. These observations are consistent with the regional-scale, northwest-trending folds. Northwest-striking faults have been mapped in association with the mineralization at the East and West Gold Zones. These faults dip moderately to steeply to the southwest and fault striations indicate east-directed, reverse senses of motion that have thrust shale units over quartzite units.

Bedding Poles

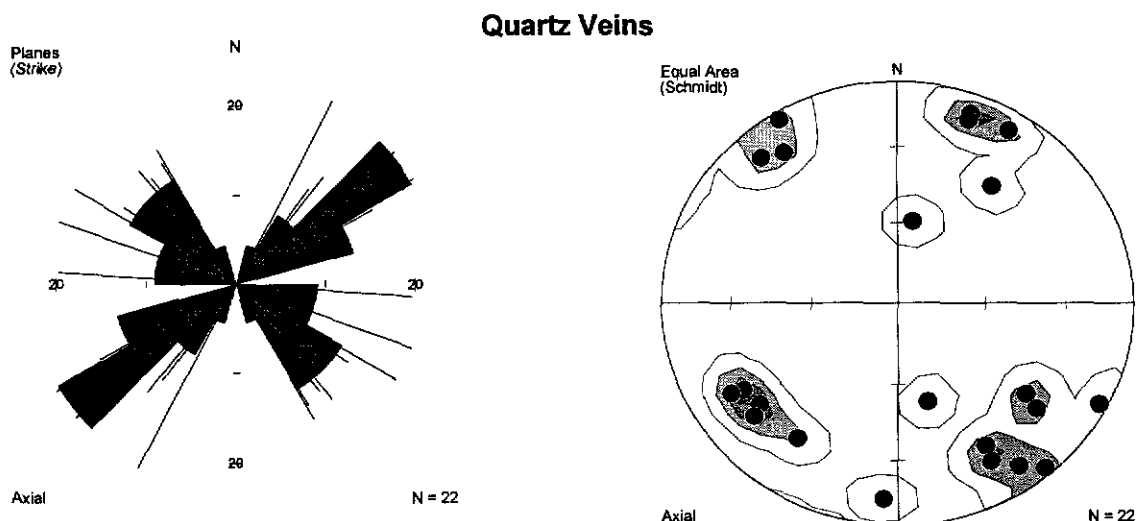


Eigenvalues			
Vector	Trend	Plunge	Value
1	136	19	1.4869
2	241	33	6.9520
3	23	81	28.952

7.2 Alteration and Mineralization

Quartz veining and stockwork formation is the most common characteristic of the geochemically anomalous areas, and quartz veining overall is particularly prevalent in quartzite units throughout the property. The competent nature of the quartz-rich rocks on the property is conducive to intense fracturing and the concentration of veining, alteration and mineralization in these units. These quartz veins range from 0.2 cm to 10-20 cm in thickness and occur in swarms of up to 5-10 veins per metre. Quartz veining is

also present within shale units, predominantly occurring as coarse-gained, strike-limited individual veins, reflecting the more ductile nature of the host rock. Quartz varies from milky white to markedly blue-grey, and massive to banded and sucrosic and commonly drusy and vuggy. The quartz veins occur in two dominant, broadly orthogonal sets, striking roughly 050° and 135° , dipping steeply to subvertically. These extensional vein orientations are consistent with east-west compression, as indicated by fault kinematics at the East Zone Anomaly.



The quartz veins are mineralized with arsenopyrite, galena, pyrite and visible gold with secondary jarosite, scorodite and limonite, and total sulphide contents less than 5-10%. Higher Au values in rocks are associated with sulphide mineralization, particularly with arsenopyrite. Previous samples of this quartz vein material have returned 37.6 g/t and 144 g/t Au (samples #62498 and #73723). Sample 113337, consisting of a sucrosic quartz vein with lenses of arsenopyrite, returned 726 ppb Au and indicates that the West Gold Zone mineralization extends 300 metres to the southeast. A grab sample (312216) of frothy to drusy quartz with fine arsenopyrite and pyrite in the immediate footwall of the West Gold Zone fault assayed 2.51 g/t Au with 55,439 ppm As. This sample demonstrates that the fault structure is directly related to the West Gold Zone mineralization. Float sample 113341, of a coarse quartz vein with arsenopyrite and galena from the East Gold Zone, returned 844 ppb Au, 33,094 ppm As and 8770 ppm Pb.

Table 7.1.1
SIGNIFICANT ROCK SAMPLES

Sample	Year	Type	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Hg (ppb)	Pb (ppm)	Sb (ppm)	W (ppm)
62493	1997	Talus	965	<0.3	26788	0	<10	88.4	4.3	9
62498	1997	Talus	37600	20.34	99999	31.6	26	4394	26	26
64898	1997	Talus	938	25.77	99999	2	205	11637	40	6
70750	1997	Float	809	<0.3	15915	0	37	33.7	<2	4
71092	1997	Float	2900	<0.3	83204	1.7	<10	78.5	8.9	7
73700	1998	Talus	849	0.61	60772	<2	29	140	6	<2
73704	1998	Talus	9.94 g/t	1.47	5721	<2	13	133	<2	<2
73706	1998	Talus	1597	1.21	20714	<2	<10	493	5	<2
73720	1998	Talus	835	<0.3	7612	<2	<10	12	<2	<2
73721	1998	Grab	3000	1.01	22037	<2	20	34.6	3.1	8
73722	1998	Talus	7.71 g/t	1.90	64429	<2	<10	116	19.4	<2
73723	1998	Talus	144 g/t	11.77	4952	<2	69	10.1	<2	<2
73759	1998	Talus	76.3 g/t	8.92	2056	<2	33	28.6	<1	8

Table 7.1.1 (Continued)
SIGNIFICANT ROCK SAMPLES

Sample	Year	Type	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Hg (ppb)	Pb (ppm)	Sb (ppm)	W (ppm)
113337	2000	Float	726	0.4	26098	< 3	n/a	60	4	3
113341	2000	Float	844	14.4	33094	< 3	n/a	8770	18	151
231056	2000	Select	23.1 g/t	2.8	25567	< 3	n/a	139	< 3	927
312216	2000	Grab	2.51 g/t	1.5	55439	< 3	n/a	48	9	3

Shale-hosted quartz veins also host Au and sulphide mineralization, returning 9.94 g/t Au in sample #73704. Several such veins were sampled in 2000 including R231056 which assayed 23.05 g/t Au. Sulphide minerals are commonly coarse-grained in these shale-hosted veins and the vein envelopes are commonly altered with coarse muscovite. However, these veins commonly have limited strike lengths. Altered sandstone with disseminated, replacement-style arsenopyrite and pyrite has returned anomalous Au, including sample #73722 with 7.71 g/t Au.

8.0 SOIL GEOCHEMISTRY

Two hundred and sixty-eight soil samples were collected in 2000 to bring the total number of soil samples on the Hy Property to 804. The 2000 soil sampling program was designed to provide coverage of the north cirque and test the strike extensions of the East and West Gold Zones. Due to poor soil development, many samples are of colluvium and/or talus fines.

Statistical analysis of the results from all samples (Appendix F) shows that, although these correlation coefficients are low, gold correlates best with As ($r^2=0.149$), Te ($r^2=0.043$) and Pb ($r^2=0.019$). The distribution of these elements are plotted on Figures 5a through 5d. Symbols for gold and arsenic have been scaled proportionally on these maps using thresholds defined by statistics and summarized in the following percentile table. For the purposes of discussion, values greater than the 70th percentile are considered weakly anomalous, the 85th percentile moderately anomalous, the 95th percentile highly anomalous and the 98th percentile very highly anomalous.

Table 8.0.1
SOIL GEOCHEMICAL PERCENTILES

Percentile	Au (ppb)	As (ppm)	Ag (ppm)	Te (ppm)	Pb (ppm)
50 th	2	14.4	0.10	-	25.3
70 th	3	25.7	0.14	-	35.0
85 th	9	57.0	0.21	0.17	46.4
95 th	42	216.7	0.44	0.25	59.3
98 th	106	509.0	0.73	0.30	71.6

Prominent soil geochemical anomalies are associated with East and West Gold Zone mineralization. The East Gold Zone anomaly measures approximately 900 metres long by 350 metres wide and extends to the ridgeline separating the south and north cirques. The anomaly is marked by greater than 90th percentile Au, including a maximum of 1259 ppb Au, with highly anomalous As and Te. There is also an association with anomalous Pb values towards the northern margins of the anomaly and into the north cirque. Overall, the anomaly is directly associated with exposures of quartzite or conglomerate.

The West Gold Zone is a markedly linear 1400 metre long by 50 to 100 metre wide anomaly, marked by greater than 90th percentile Au, including a maximum of 909 ppb Au. In comparison with the

East Gold Zone, highly anomalous Te values are more localized in distribution, and As response in soils is weakly anomalous. This anomaly, which is closed off to the northwest, also shows a strong lithological association with outcropping quartzite and conglomerate, and the linear nature is related to the northwest-striking controlling fault structure.

The north cirque is marked by a relatively subdued geochemical response with respect to Au, with the exception of a few spot anomalies. However, the two lines on the south side of this cirque (L114N and L115N) are marked by weakly to highly anomalous As and Te values. Anomalous Pb values are widespread in the north cirque, and may be related to the relative abundance of shale-dominated lithologies. On the north side of this cirque, there is a broad northwest trend of highly anomalous Pb values.

9.0 DISCUSSION AND RECOMMENDATIONS

The Hy property is underlain by a broadly folded sequence of coarse siliciclastic and phyllitic, continental margin sediments of the late Proterozoic to early Cambrian Hyland Group. The nearest intrusion is an elongate, Cretaceous-aged granite body of the Tungsten Plutonic Suite which lies five kilometres south of the property. No intrusive bodies have been noted on the property. Regional airborne magnetic surveys indicate a moderate, northwest-trending magnetic high traversing the Hy Property which may be reflecting a buried intrusion similar to the Anvil Suite Mt. Billings Batholith (Heffernan and Mortensen, 2000). This magnetic high is flanked on its northeast margin by a prominent magnetic low which may reflect a zone of hydrothermal alteration. The Hyland Group rocks host gold mineralization in numerous occurrences from the southeastern Yukon to the Dawson City area, and following displacement by the Tintina-Kaltag Fault, across the central Alaskan interior, as part of the Tintina Gold Belt. This includes the Hyland Gold property, 75 kilometres northeast of Watson Lake, which has an inferred oxide resource of 6.75 Mt at 2 g/t Au, and significant occurrences at the FER, Hit and Sun-Sproge properties.

The Hy Property hosts a distinct style of gold mineralization within the spectrum of intrusion-related, sediment-hosted gold-lithophile deposits found within the Tintina Gold Belt in the Yukon and Alaska. This spectrum includes intrusion-hosted mineralization, such as the Fort Knox deposit (7 million oz. Au), vein-hosted deposits, such as Pogo (5.2 million oz. Au), sediment-hosted deposits proximal to intrusions, such as True North (1.3 million oz. Au) and sediment-hosted deposits distal to intrusions, such as Brewery Creek (616,000 oz. Au). These deposits are generally associated with I-type granites in continental margin (back-arc) settings which have an intermediate magnetic signature (flat to low relief). The metal assemblage characteristic of these deposits is Au-As-Bi-Te-Mo-W in proximal settings, zoning to a lower temperature assemblage characterized by Au-As-Sb-(Hg)-Ag-Pb-Zn, with almost no W-Bi-Mo signature, in distal settings.

The geology of the Hy Property has many similarities to the Brewery Creek deposit. The Brewery Creek deposits are located along the 12 km-long "reserve trend" and lie up to 4 km north of the related Tombstone Plutonic Suite intrusions and their thermal aureoles. This mineralized trend and a series of mineralized monzonite sills are controlled by several through-going thrust faults, which dip moderately to the south towards the TPS intrusions. Steep faults and "flat-bottomed" normal faults are common hosts for mineralization and may be linked with the shallower thrust faults. Reactivation of the thrust faults would permit focused fluid flow along permeable conduits that would be driven by thermal gradients along the margin of the thermal aureole of the TPS intrusions.

Gold mineralization at the Hy Property exhibits structural and lithological controls. The majority of mineralized rocks are directly associated with faults, in particular northwest-striking, southwest-dipping reverse faults at the East and West Gold Zones. Quartz-rich lithologies are the dominant, though not exclusive, hosts for significant alteration and mineralization, with extensive stockwork quartz±arsenopyrite±pyrite±galena veinlets present throughout the quartzites and quartz-pebble

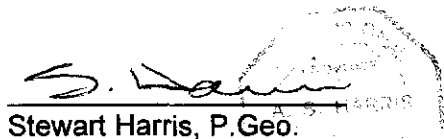
conglomerates. Quartz veining is also present within Hyland Group shales on the Hy property, most commonly as rare coarse quartz veins or boudins with coarse sulphide minerals. Strong fracturing as a result of a brittle reaction to faulting and folding in the silicic rocks has developed a secondary porosity and permeability. This structural preparation has produced a large surface area for fluid-rock interaction, ideal for alteration and mineralization by hydrothermal fluids. It is possible that these rocks were also chemically reactive hosts. Although not observed in limited mapping on the Hy property, Hyland Group quartzites locally possess calcareous cements, making these quartzites receptive hosts for replacement-style mineralization. Auriferous replacement-style mineralization, consisting of altered sandstone with disseminated blebs of arsenopyrite, has been noted on the Hy property.

Exploration to date on the Hy property has identified and focused upon high-grade Au mineralization with strong structural and lithologic controls that share many characteristics with the Brewery Creek deposit. The strike and dip extents of this mineralization have not been fully evaluated. In particular, northwest faults are directly related to mineralization in the quartzites at surface at the East and West Gold Zones, but it is not known whether stratigraphy underlying the quartzites is similarly mineralized. As most previous work has been conducted towards these high-grade occurrences, little work has been directed towards other targets on the property. Lower-grade, replacement-style mineralization has been observed in quartzites on the property, representing another significant target. Limestone, which has also been observed on the property, represents a chemically-reactive potential host for replacement mineralization.

A program of geological mapping, soil and rock sampling and geophysics (magnetic and VLF/EM surveys) is recommended for the Hy Property. This program would effectively evaluate the property for strike extensions to, and controls on known auriferous zones, and the potential for significant replacement-style mineralization. Subsequent trenching and/or diamond drilling in the East and West Gold Zones would more fully assess the size potential of these high-grade mineralized zones.

Respectfully submitted,

EQUITY ENGINEERING LTD.



Stewart Harris, P. Geo.

Vancouver, British Columbia

October 2000

APPENDIX A

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BIBLIOGRAPHY

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APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

Stewart Harris (Project Geologist)
20771 44 Avenue
Langley, B.C.
V3A 7W3

Neil DeBock (Prospector)
RR #2
P.O. Box 3506
Clearwater, B.C.
V0E 1N0

Devon McDiarmid (Sampler)
2586 Hamm Road
Black Creek, B.C.
V9J 1B4

Michael Weinert (Sampler)
General Delivery
Whitehorse, Y.T.
Y1A 3S8

APPENDIX C

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

Hy PROPERTY

Hy 1-75 Claims

October 12, 2000

CANADA) In the matter of an evaluation program on the Hy Property

I, Stewart Harris, of Equity Engineering Ltd., 700, 700 West Pender Street, Vancouver, B.C. do solemnly declare that a program consisting of geological mapping, prospecting and soil sampling was carried out on the Hy 1-75 Mineral Claims from September 6th to September 16th, 2000. The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

see table on following page

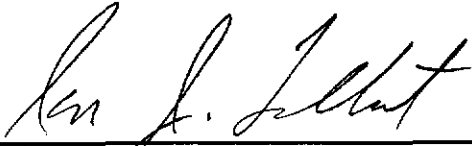
And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Vancouver in the
Province of British Columbia this

30th day of October, 2000

)
)
)





Notary Public for the Province of British Columbia

IAN J. TALBOT

Barrister & Solicitor

300 - 1111 Melville Street

Vancouver, B.C. V6E 4H7

Telephone: (604) 682-3664

PROFESSIONAL FEES AND WAGES:

Stewart Harris, P.Geo	19.31 days @ \$460/day	\$ 8,882.60
Neil DeBock, Prospector	11.5 days @ \$300/day	3,450.00
Devon McDiarmid, Senior Sampler	11 days @ \$275/day	3,025.00
Michael Weinert, Senior Sampler	10 days @ \$275/day	2,750.00
Clerical	6.7 hours @ \$25/hour	<u>167.50</u>
		\$ 18,275.10

EQUIPMENT RENTALS:

Chainsaw	2 days @ \$15/day	30.00
Fire-fighting Equipment	1 days @ \$10/day	10.00
Fly Camp	32 days @ \$25/man-day	800.00
Generator (1kVA)	8 days @ \$10/day	80.00
Pentium Computer	6 days @ \$15/day	<u>90.00</u>
		\$ 1,010.00

EXPENSES:

Accommodation	\$ 462.90
Airfare	2,169.00
Automotive Fuel	242.28
Bulk Fuel	628.90
Camp Food	753.39
Camp Supplies	104.49
Chemical Analyses	5,328.03
Courier	379.56
Expediting	470.00
Freight	1,115.27
Helicopter Charters	5,775.00
Materials and Supplies	631.07
Meals	282.82
Parking, Tolls and Taxis	179.32
Printing and Reproductions	163.06
Radio Rental	192.60
Truck Rental (Non-Equity)	1,184.28
Drafting	<u>360.00</u>
	\$ 20,421.97

SUB-TOTAL:		\$ 39,707.07
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PROJECT SUPERVISION:

12% on 1st \$100,000	<u>\$ 4,764.85</u>	\$ 4,764.85
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REPORT:	(estimated)	\$ 6,000.00
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SUB-TOTAL:		<u>\$ 50,471.92</u>
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G.S.T.:	(7% on sub-total)	<u>\$ 3,533.03</u>
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TOTAL:		\$ 54,004.95
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APPENDIX D

ROCK SAMPLE DESCRIPTIONS

MINERAL ABBREVIATIONS

AK	ankerite	AS	arsenopyrite	BA	barite
BI	biotite	CA	calcite (or CC)	CL	chlorite
CP	chalcopyrite	CY	clay	EP	epidote
GE	goethite	GL	galena	HE	hematite
HS	specularite	JA	jarosite	KF	K-feldspar
MG	magnetite	MN	Mn-oxides	MS	sericite (or SE)
PO	pyrrhotite	PY	pyrite	QZ	quartz
SI	silica	SP	sphalerite	SR	scorodite

ALTERATION INTENSITY

tr	trace	w	weak	m	moderate
		s	strong		

Rock Sample Descriptions

Project Name: Hy

Project: ATH00-01

NTS: 105H/15

Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: wMS, wMU, sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113336	UTM 6865772	N	UTM 517286	E	Strike Length Exp:	Metallics:	< 2		< .3	3	
Hy	Elevation 1665	m	Sample Width:		True Width:	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>	
					Host : Quartz		< 3	12	< 3	5	
Sampled By: ND	Bull metamorphic quartz vein float with sericite, muscovite on selvage.										
08-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: QZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113337	UTM 6865648	N	UTM 517275	E	Strike Length Exp:	Metallics: AS	726		0.4	26098	
Hy	Elevation 1680	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite, Quartz Vein		< 3	60	4	3	
Sampled By: ND	Coarse, sugary quartzite or quartz vein with lens of arsenopyrite.										
08-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113338	UTM 6866421	N	UTM 517019	E	Strike Length Exp:	Metallics: trPY	5		0.7	40	
Hy	Elevation 1840	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	7	< 3	7	
Sampled By: ND	North-south trending float train of coarse, milky bull quartz with finely crystalline epidote? lenses and blebs.										
08-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113339	UTM 6866372	N	UTM 517141	E	Strike Length Exp:	Metallics: trGL	4		1	74	
Hy	Elevation 1810	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	303	< 3	6	
Sampled By: ND	Coarse red ferruginous quartz vein, locally sucrosic with boxworks and blebs of galena in a north-south trending float train.										
08-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113340	UTM 6866427	N	UTM 517692	E	Strike Length Exp:	Metallics: AS, GL	447		8.5	4386	
Hy	Elevation 1700	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries: SR	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	4357	9	22	
Sampled By: ND	East Gold Zone. Ribboned, vuggy quartz vein with galena, arsenopyrite, and scorodite.										
09-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113341	UTM 6866427	N	UTM 517692	E	Strike Length Exp:	Metallics: AS, GL	844		14.4	33094	
Hy	Elevation 1700	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	8770	18	151	
Sampled By: ND	East Gold Zone. Coarse quartz vein with arsenopyrite and galena, sampled approximately 10 meters east of 113340.										
09-Sep-00											

Rock Sample Descriptions

Project Name: Hy

Project: ATH00-01

NTS: 105H/15

Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: sQZ, MU	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113342	UTM 6866522	N	UTM 517701	E	Strike Length Exp: 15 m	Metallics: 1%PY	10		0.5	170	
Hy	Elevation 1750	m	Sample Width: 20	cm	True Width: 15	cm	Secondaries: GE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Shale		< 3	87	< 3	7	
Sampled By: ND	East-west trending outcrop above East Gold Zone. Sucrosic, ferruginous quartz vein with muscovite selvage in shale.										
09-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113343	UTM 6866794	N	UTM 517749	E	Strike Length Exp:	Metallics: AS	101		< .3	4512	
Hy	Elevation 1770	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	40	< 3	6	
Sampled By: ND	Coarse bull quartz vein with traces of coarse arsenopyrite.										
09-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113344	UTM 6866818	N	UTM 517753	E	Strike Length Exp:	Metallics: 1%PY	13		0.6	27	
Hy	Elevation 1800	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries: sGE, sHE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz		< 3	14	4	6	
Sampled By: ND	Extremely ferruginous breccia consisting of quartz (quartzite?) fragments in a limonitic matrix.										
09-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113345	UTM 6867433	N	UTM 516433	E	Strike Length Exp:	Metallics: 1%PY	5		0.7	19	
Hy	Elevation 1750	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Shale		< 3	128	< 3	6	
Sampled By: ND	Coarse, sucrosic, locally vuggy quartz vein in shale.										
10-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ, MU	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113346	UTM 6867359	N	UTM 516512	E	Strike Length Exp:	Metallics: trPY	< 2		0.5	< 2	
Hy	Elevation 1740	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries: sGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Shale		< 3	27	< 3	5	
Sampled By: ND	Strongly oxidized boxworked quartz vein(?) with trace pyrite and muscovite selvage in shale.										
10-Sep-00											
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
113347	UTM 6867246	N	UTM 517019	E	Strike Length Exp: 3 m	Metallics:	2		0.9	4	
Hy	Elevation 1600	m	Sample Width: 10	cm	True Width: 10	cm	Secondaries: sGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Shale		< 3	111	< 3	4	
Sampled By: ND	Bull, vuggy quartz vein in shale with local boxworks.										
10-Sep-00											

Rock Sample Descriptions

Project Name: Hy

Project: ATH00-01

NTS: 105H/15

Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Alteration:	sQZ, MS, MU	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
113348	UTM 6867367	N	UTM 517062	E	Strike Length Exp:		Metallics:		< 2		0.6	2		
Hy	Elevation 1580	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	mGE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Shale			< 3	44	< 3	6		
Sampled By: ND	Coarse, sucrosic quartz vein with sericite- and muscovite-altered wallrock inclusions and jarosite and goethite in vugs boxwork.													
10-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
113349	UTM 6867433	N	UTM 517238	E	Strike Length Exp:		Metallics:	1%GL	< 2		5.5	4		
Hy	Elevation 1540	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	GE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Quartz Vein			17	1546	< 3	7		
Sampled By: ND	Coarse ferruginous quartz vein with blebs of galena in vugs.													
10-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Alteration:	wQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
113350	UTM 6867455	N	UTM 517336	E	Strike Length Exp:		Metallics:	1%PY	4		< .3	< 2		
Hy	Elevation 1545	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	GE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Shale			< 3	28	< 3	3		
Sampled By: ND	Fine pyrite with boxworks and Fe-oxides in quartz veinlet in shale.													
10-Sep-00														
Sample Number:	Grid North:	107	N	Grid East:	8950	E	Type:	Float	Alteration:		<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312213	UTM 6866694	N	UTM 516296	E	Strike Length Exp:		Metallics:				6		0.3	9
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Phyllitic Shale, minor Quartzite			< 3	13	< 3	5		
Sampled By: MW	No soil development at L107N 8950E, collected by M. Weinert. Locally rusty.													
08-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Alteration:	mQZ, wMS	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312214	UTM 6866070	N	UTM 517238	E	Strike Length Exp:	10 m	Metallics:	trPY	< 2		< .3	19		
Hy	Elevation 1610	m	Sample Width: 4	m	True Width: 4	m	Secondaries:	wGE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Quartzose Sandstone			< 3	< 3	< 3	5		
Sampled By: SH	Heaved outcrop of rusty weathering sandstone with common 0.5 - 4 centimeter bull quartz veins. Trace pyrite and iron oxides.													
09-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Select/Grab	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312215	UTM 6866146	N	UTM 517052	E	Strike Length Exp:	1 m	Metallics:	trPY	217		0.3	33		
Hy	Elevation 1657	m	Sample Width: 3	cm	True Width: 3	cm	Secondaries:	mGE, wHE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Quartz Pebble Conglomerate			< 3	4	< 3	7		
Sampled By: SH	Select grab of rusty sucrosic quartz vein containing a small pod of pyrite.													
09-Sep-00														

Rock Sample Descriptions

Project Name: Hy

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Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312216 Hy	UTM 6866173	N	UTM 517014	E	Strike Length Exp:	30 m	Metallics:	5%AS, 5-10%PY	2190	2.51	1.5	55439		
	Elevation 1648	m	Sample Width: 20	cm	True Width: 20	cm	Secondaries:	sGE, mJA, sSR	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
	Fault 138°/83° SW				Host: Quartz Pebble Conglomerate				< 3	48	9	3		
Sampled By: SH 09-Sep-00	West Gold Zone. Frothy to drusy quartz with arsenopyrite and pyrite in footwall of mineralization-controlling fault structure. Common boxworks.													
Sample Number:	Grid North:	108	N	Grid East:	9050	E	Type:	Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312217 Hy	UTM 6866820	N	UTM 516496	E	Strike Length Exp:		Metallics:		12		< .3	180		
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host: Shale				< 3	9	< 3	< 2		
Sampled By: MW 09-Sep-00	No soil development at L108N 9050E, collected by M. Weinert.													
Sample Number:	Grid North:	108	N	Grid East:	9200	E	Type:	Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312218 Hy	UTM 6.86683e	N	UTM 516647	E	Strike Length Exp:		Metallics:		4		< .3	84		
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host: Shale				< 3	24	< 3	< 2		
Sampled By: MW 09-Sep-00	No soil development at station L108N 9200E, collected by M. Weinert.													
Sample Number:	Grid North:	108	N	Grid East:	9250	E	Type:	Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312219 Hy	UTM 6866827	N	UTM 516698	E	Strike Length Exp:		Metallics:		< 2		< .3	26		
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host: Shale				< 3	14	< 3	2		
Sampled By: MW 09-Sep-00	No soil development at station L108N 9250E, collected by M. Weinert.													
Sample Number:	Grid North:	108	N	Grid East:	9150	E	Type:	Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312220 Hy	UTM 6866823	N	UTM 516597	E	Strike Length Exp:		Metallics:		9		< .3	62		
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host: Shale				< 3	18	< 3	3		
Sampled By: MW 09-Sep-00	No soil developed at station L108N 9150E, collected by M. Weinert.													
Sample Number:	Grid North:		N	Grid East:		E	Type:	Float	Alteration:	w-mQz	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312221 Hy	UTM 6868345	N	UTM 517232	E	Strike Length Exp:		Metallics:		13		< .3	25		
	Elevation 1746	m	Sample Width: 20	cm	True Width: 20	cm	Secondaries:	sGE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host: Brecciated Quartzite				< 3	7	< 3	4		
Sampled By: SH 10-Sep-00	Angular 20x02x25cm cobble of quartzite breccia. Quartzite and quartz vein clasts healed by iron oxide. Pyritic boxworks present.													

Rock Sample Descriptions

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Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: wQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312222	UTM 6868504	N	UTM 517364	E	Strike Length Exp: 3 m	Metallics:	5		< .3	73
Hy	Elevation 1765	m	Sample Width: 3	m	True Width: 3 m	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Fine Sandstone		< 3	9	< 3	5
Sampled By: SH	Stockwork quartz veinlets in fine sandstone.									
10-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: wCL, sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312223	UTM 6868474	N	UTM 516999	E	Strike Length Exp: 3 m	Metallics:	< 2		0.3	13
Hy	Elevation 1873	m	Sample Width: 50	cm	True Width: 50 cm	Secondaries: wGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
	Vein/Bedding 127°/56° SW				Host : Phyllitic Shale		< 3	26	< 3	7
Sampled By: SH	50cm quartz vein concordant to foliation in phyllitic shale with chlorite-altered wallrock inclusions.									
10-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312224	UTM 6868315	N	UTM 516888	E	Strike Length Exp:	Metallics:	9		< .3	110
Hy	Elevation 1872	m	Sample Width: 0	cm	True Width: 0 cm	Secondaries: wGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite		< 3	10	< 3	5
Sampled By: SH	Angular boulder with vuggy and ferruginous stockwork quartz veining.									
10-Sep-00										
Sample Number:	Grid North: 115	N	Grid East: 8950	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312225	UTM 6867550	N	UTM 516429	E	Strike Length Exp:	Metallics:	2		< .3	20
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0 cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host :		< 3	28	< 3	2
Sampled By: MW	No soil development at site L115N 8950E, collected by M. Weinert.									
10-Sep-00										
Sample Number:	Grid North: 115	N	Grid East: 9000	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312226	UTM 6867542	N	UTM 516479	E	Strike Length Exp:	Metallics:	< 2		< .3	6
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0 cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite, Phyllite		< 3	15	< 3	3
Sampled By: MW	No soil development at site L115N 9000E, collected by M. Weinert.									
10-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: mQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312227	UTM 6866403	N	UTM 517730	E	Strike Length Exp: 7 m	Metallics:	< 2		< .3	74
Hy	Elevation 1680	m	Sample Width: 1.5	m	True Width: 1.5 m	Secondaries: wGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
	Vein 330°/70° NE				Host : Quartzite		< 3	5	< 3	5
Sampled By: SH	Quartzite with weakly ferruginous quartz veins paralleling prominent fracture set.									
12-Sep-00										

Rock Sample Descriptions

Project Name: Hy

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Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312228 Hy	UTM 6866775	N	UTM 517428	E	Strike Length Exp:	Metallics: 1%AS, 0.5%PY	27		< .3	2024	
	Elevation 1780	m	Sample Width: 20	cm	True Width: 25	cm	Secondaries: wGE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Vein		< 3	23	< 3	7	
Sampled By: SH 12-Sep-00	20x25 cm boulder of grey quartz cut by milky, vuggy quartz stockwork. Disseminated sulphides and fracture-controlled arsenopyrite.										
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: wQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312229 Hy	UTM 6866719	N	UTM 517794	E	Strike Length Exp: 25 m	Metallics:	8		< .3	10	
	Elevation 1770	m	Sample Width: 25	m	True Width: 25	m	Secondaries: wGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite		< 3	14	< 3	4	
Sampled By: SH 12-Sep-00	Sampled weakly ferruginous quartzite with stockwork quartz veinlets.										
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: wQZ, MS?	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312230 Hy	UTM 6866818	N	UTM 517778	E	Strike Length Exp:	Metallics: <1%PY	4		0.3	10	
	Elevation	m	Sample Width: 80	cm	True Width: 30	cm	Secondaries: sGE, wJA	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartz Pebble Conglomerate		< 3	5	< 3	4	
Sampled By: SH 12-Sep-00	Coarse quartzite to quartz pebble conglomerate with fault striae, minor quartz veinlets and clots of fine sulphide.										
Sample Number:	Grid North: 115	N	Grid East: 8850	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312231 Hy	UTM 6867562	N	UTM 516328	E	Strike Length Exp:	Metallics:	< 2		< .3	4	
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Phyllite		< 3	23	< 3	2	
Sampled By: MW 12-Sep-00	No soil development at site L115N 8850E, collected by M. Weinert.										
Sample Number:	Grid North: 115	N	Grid East: 9900	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312232 Hy	UTM 6867523	N	UTM 517369	E	Strike Length Exp:	Metallics:	5		< .3	< 2	
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Shale		< 3	30	< 3	< 2	
Sampled By: MW 12-Sep-00	No soil development at site L115N 9900E, collected by M. Weinert.										
Sample Number:	Grid North:	N	Grid East:	E	Type:	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>	
312233 Hy	UTM	N	UTM	E	Strike Length Exp:	Metallics:	< 2		< .3	< 2	
	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Biotite Granite		< 3	8	< 3	2	
Sampled By: SH 12-Sep-00	Blank										

Rock Sample Descriptions

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Sample Number:	Grid North:	N	Grid East:	E	Type:	Float	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312234	UTM 6867607	N	UTM 517384	E	Strike Length Exp:		Metallics:	<1%GL	4		5.3	3		
Hy	Elevation 1550	m	Sample Width: 30	cm	True Width: 20	cm	Secondaries:	mGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host :	Phyllitic Shale			10	1650	< 3	9		
Sampled By: SH	30x20x15 cm angular float. Phyllitic shale with sucrosic, ferruginous, drusy quartz vein containing trace galena.													
13-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	mQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312235	UTM 6867612	N	UTM 517329	E	Strike Length Exp:	15 m	Metallics:		4		0.4	20		
Hy	Elevation 1530	m	Sample Width: 8	m	True Width: 8	m	Secondaries:	wGE, wMN	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Vein 235°/78° NW	Host : Quartzite			< 3	12	< 3	6		
Sampled By: SH	Sub-parallel swarm of steel grey, sucrosic quartz veins, 1-10 cm thick.													
13-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312236	UTM 6867388	N	UTM 517196	E	Strike Length Exp:	5 m	Metallics:		6		< .3	< 2		
Hy	Elevation 1632	m	Sample Width: 3	m	True Width: 3	m	Secondaries:	mGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host : Quartzite				< 3	15	< 3	4		
Sampled By: SH	Milky, vuggy, ferruginous quartz stockwork with trace fine dark sulphide.													
13-Sep-00														
Sample Number:	Grid North:	121	N	Grid East:	8850	E	Type:	Float	Alteration:		<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312237	UTM 6868109	N	UTM 516341	E	Strike Length Exp:		Metallics:				< 2		< .3	2
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	Secondaries:		<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host : Phyllitic Shale				< 3	27	< 3	< 2		
Sampled By: SH	No soil development at site L121N 8850E, collected by M. Weinert.													
13-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	wMS, sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312238	UTM 6867201	N	UTM 516713	E	Strike Length Exp:	2 m	Metallics:		3		1.9	< 2		
Hy	Elevation 1910	m	Sample Width: 40	cm	True Width: 40	cm	Secondaries:	wGE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host : Phyllitic shale				4	256	< 3	7		
Sampled By: SH	Rusty quartz vein/boudin in phyllitic shale. Coarse rusty muscovite in envelope.													
14-Sep-00														
Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>		
312239	UTM 6867468	N	UTM 516265	E	Strike Length Exp:	>50 m	Metallics:	trPY	9		< .3	3		
Hy	Elevation 1950	m	Sample Width: 2	m	True Width: 0.4	m	Secondaries:	wGE, wHE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>		
					Host : Quartz Pebble Conglomerate				< 3	5	< 3	5		
Sampled By: SH	1-3 cm grey stockwork quartz veining with trace pyrite.													
14-Sep-00														

Rock Sample Descriptions

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Sample Number:	Grid North: 114	N	Grid East: 8700	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312240	UTM 6867413	N	UTM 516177	E	Strike Length Exp:	Metallics:	< 2		< .3	2
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite, Shale	Secondaries:	< 3	10	< 3	3
Sampled By: MW	No soil development at site L114N 8700E, collected by M. Weinert.									
14-Sep-00										
Sample Number:	Grid North: 114	N	Grid East: 8800	E	Type: Float	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
312241	UTM 6867413	N	UTM 516277	E	Strike Length Exp:	Metallics:	2		0.4	2
Hy	Elevation	m	Sample Width: 0	cm	True Width: 0	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Quartzite	Secondaries:	< 3	11	< 3	2
Sampled By: MW	No soil development at site L114N 8800E, collected by M. Weinert.									
14-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231051	UTM 6867650	N	UTM 517568	E	Strike Length Exp:	Metallics: 1%PY	6		0.4	10
Hy	Elevation 15655	m	Sample Width: 0	cm	True Width: 0	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Phyllite	Secondaries:	< 3	23	< 3	6
Sampled By: ND	Massive quartz vein in phyllite with pyrite and a vuggy envelope.									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Float	Alteration: sQZ, wMS, wMU	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231052	UTM 6867678	N	UTM 517558	E	Strike Length Exp:	Metallics:	< 2		< .3	2
Hy	Elevation 1550	m	Sample Width: 0	cm	True Width: 0	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Host : Phyllitic Shale	Secondaries: wGE, wJA	< 3	32	< 3	7
Sampled By: ND	Ferruginous quartz vein with muscovite-altered selvage, sericite+clay (illite?) altered wallrock inclusions, hosted in phyllitic shale.									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231053	UTM 6867880	N	UTM 517886	E	Strike Length Exp: 4 m	Metallics: trAS	15		< .3	173
Hy	Elevation 1460	m	Sample Width: 10	cm	True Width: 12.5	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Vein 130°/ ° SW	Host : Quartzite	< 3	9	< 3	5
Sampled By: ND	Ferruginous quartz veins and stockwork with trace coarse euhedral arsenopyrite in quartzite.									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Grab	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231054	UTM 6867902	N	UTM 517964	E	Strike Length Exp: 4 m	Metallics: <1%PY	4		< .3	12
Hy	Elevation 1460	m	Sample Width: 10	cm	True Width: 15	cm	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					Vein 130°/° SW	Host : Phyllitic Shale	< 3	38	< 3	7
Sampled By: ND	Coarse ferruginous quartz vein with pyrite in phyllitic shale. Limited strike extent.									
12-Sep-00										

Rock Sample Descriptions

Project Name: Hy

Project: ATH00-01

NTS: 105H/15

Sample Number:	Grid North:	N	Grid East:	E	Type:	Alteration:	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231055	UTM	N	UTM	E	Strike Length Exp:	Metallics:	< 2		< .3	3
Hy	Elevation	m	Sample Width:	0	cm	True Width:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					cm	Host : Granite	< 3	7	< 3	2
Sampled By: ND	Blank									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Select	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231056	UTM 6867948	N	UTM 517826	E	Strike Length Exp: 1 m	Metallics: 5-10%AS, trPY	19358	23.05	2.8	25567
Hy	Elevation 1460	m	Sample Width: 9	cm	True Width: 6.5	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					cm	Bedding 150°/85° S	< 3	139	< 3	927
						Host : Phyllite				
Sampled By: ND	Coarse quartz vein with 5-10% coarse euhedral arsenopyrite in phyllite. Limited strike length.									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Select	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231057	UTM 6867732	N	UTM 517180	E	Strike Length Exp: 11 m	Metallics: trPY	23		< .3	57
Hy	Elevation 1450	m	Sample Width: 10	cm	True Width: 10	Secondaries: GE	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					cm	Bedding 300°/80° NE	< 3	11	< 3	9
						Host : Phyllite				
Sampled By: ND	Coarse ferruginous quartz vein with traces of pyrite in phyllite.									
13-Sep-00										
Sample Number:	Grid North:	N	Grid East:	E	Type: Select	Alteration: sQZ	<u>Au (ppb)</u>	<u>Au (g/t)</u>	<u>Ag (ppm)</u>	<u>As (ppm)</u>
R231058	UTM 6867820	N	UTM 516921	E	Strike Length Exp: 1 m	Metallics: PY	11		0.4	32
Hy	Elevation 1675	m	Sample Width: 15	cm	True Width: 15	Secondaries:	<u>Bi (ppm)</u>	<u>Pb (ppm)</u>	<u>Sb (ppm)</u>	<u>W (ppm)</u>
					cm	Bedding 120°/85° SW	< 3	46	< 3	11
						Host : Phyllite				
Sampled By: ND	Coarse, locally vuggy, locally grey quartz vein with coarse pyrite.									
14-Sep-00										

APPENDIX E

ROCK SAMPLE CERTIFICATES OF ANALYSIS AND STATISTICAL TABLES

AA

GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT ATH00-01 File # A003759

Page 1

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Stewart Harris

AA

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
113336	4	15	12	9	<.3	8	3	279	.74	3	<8	<2	3	8	<.2	<3	<3	2	.40	.006	8	27	.09	6<.01	<3	.22	.01	.02	5	<2	
113337	<1	19	60	61	.4	19	13	581	3.33	26098	<8	<2	4	16	.3	4	<3	3	1.07	.005	4	17	.08	7<.01	3	.29	.01	.03	3	726	
113338	4	3	7	9	.7	5	1	83	.75	40	<8	<2	2	1	<.2	<3	<3	1	.01	.003	2	31	.10	2<.01	8	.19	.01	.01	7	5	
113339	2	11	303	24	1.0	20	9	262	.70	74	<8	<2	2	3	<.2	<3	<3	2	.23	.116	17	29	.06	2<.01	5	.15	<.01	.01	6	4	
113340	4	10	4357	96	8.5	4	<1	38	.97	4386	<8	<2	2	3	1.3	9	<3	2	<.01	.007	16	29	.01	7<.01	5	.12	<.01	.04	22	447	
113341	<1	10	8770	2536	14.4	17	2	119	3.96	33094	<8	<2	<2	6	41.0	18	<3	3	.01	.004	44	26	.13	6<.01	7	.28	.01	.03	151	844	
113342	4	10	87	23	.5	11	4	106	.84	170	<8	<2	<2	1	.3	<3	<3	<1	.01	.008	4	27	.04	4<.01	4	.15	<.01	.02	7	10	
113343	1	10	40	34	<.3	14	3	206	1.56	4512	<8	<2	2	10	.3	<3	<3	1	.01	.006	13	26	.39	6<.01	7	.55	.01	.03	6	101	
113344	3	72	14	57	.6	41	8	76	5.01	27	9	<2	5	1	<.2	4	<3	4	<.01	.023	12	24	.01	5<.01	8	.33	.01	.03	6	13	
113345	1	12	128	26	.7	10	3	179	1.27	19	<8	<2	3	6	<.2	<3	<3	1	.13	.014	13	25	.20	7<.01	<3	.35	<.01	.03	6	5	
113346	3	20	27	38	.5	6	1	138	5.81	<2	<8	<2	8	2	<.2	<3	<3	4	.01	.012	4	30	.40	17 .01	8	.72	.01	.07	5	<2	
113347	1	55	111	56	.9	13	4	348	4.05	4	<8	<2	11	12	<.2	<3	<3	6	.35	.012	20	34	.68	24<.01	4	1.32	.02	.11	4	2	
113348	4	13	44	12	.6	3	<1	68	.80	2	<8	<2	3	5	<.2	<3	<3	1	.01	.004	5	29	.10	14 .01	4	.22	.01	.05	6	<2	
113349	1	15	1546	9	5.5	5	1	84	1.31	4	<8	<2	2	4	<.2	<3	17	1	.15	.002	2	27	.03	2<.01	<3	.09	.01	.01	7	<2	
113350	3	19	30	29	.4	5	2	252	2.02	<2	<8	<2	11	6	<.2	<3	<3	4	.01	.024	7	26	.55	32<.01	4	.85	.02	.12	3	7	
RE 113350	3	19	26	29	<.3	4	2	248	1.99	2	<8	<2	10	6	<.2	<3	<3	3	.01	.023	7	27	.54	31<.01	<3	.85	.02	.12	3	<2	
231051	2	7	23	19	.4	9	2	101	1.76	10	<8	<2	3	5	<.2	<3	<3	1	.08	.052	7	28	.30	13<.01	4	.45	<.01	.04	6	6	
231052	4	6	32	6	<.3	4	<1	52	.65	2	<8	<2	<2	1	<.2	<3	<3	1	.01	.004	2	35	.05	7<.01	3	.12	<.01	.03	7	<2	
231053	<1	12	9	32	<.3	30	6	130	1.36	173	<8	<2	8	3	<.2	<3	<3	4	.02	.016	19	25	.26	2<.01	<3	.63	.04	<.01	5	15	
231054	3	13	38	93	<.3	25	8	936	4.24	12	9	<2	2	4	<.2	<3	<3	6	.06	.015	35	31	.86	6<.01	<3	1.37	.01	.03	7	4	
231055	1	2	7	39	<.3	3	3	399	2.06	3	<8	<2	10	22	<.2	<3	<3	18	.26	.040	21	15	.43	118 .15	7	1.21	.08	.79	2	<2	
231056	3	11	139	31	2.8	22	26	227	3.74	25567	<8	37	4	12	<.2	<3	<3	3	.24	.012	17	27	.37	11<.01	13	.71	.01	.05	927	19358	
231057	1	11	11	17	<.3	7	2	173	1.22	57	<8	<2	2	4	<.2	<3	<3	2	.20	.015	3	23	.20	4<.01	4	.34	<.01	.02	9	23	
231058	4	9	46	23	.4	7	2	122	1.20	32	<8	<2	<2	3	<.2	<3	<3	1	.06	.005	1	31	.21	2<.01	<3	.26	<.01	.01	11	11	
312213	2	14	13	42	.3	21	10	452	2.50	9	<8	<2	8	5	<.2	<3	<3	7	.07	.053	18	33	.43	19<.01	<3	1.06	.01	.09	5	6	
312214	3	7	<3	11	<.3	4	2	84	1.08	19	<8	<2	4	2	<.2	<3	<3	3	<.01	.005	14	26	.11	8<.01	<3	.35	.01	.05	5	<2	
312215	2	7	4	8	.3	5	2	58	.90	33	<8	<2	2	1	<.2	<3	<3	1	<.01	.002	7	26	.04	3<.01	<3	.15	<.01	.02	7	217	
312216	5	36	48	27	1.5	10	5	89	6.67	55439	<8	3	6	3	<.2	9	<3	2	.01	.009	22	18	.06	19<.01	3	.35	.01	.04	3	2190	
312217	<1	9	9	98	<.3	51	14	766	5.43	180	<8	<2	17	11	<.2	<3	<3	16	.10	.064	62	51	1.40	34<.01	<3	2.99	.06	.16	<2	12	
312218	1	46	24	121	<.3	56	24	1337	5.45	84	<8	<2	18	14	.2	<3	<3	14	.54	.119	67	45	1.70	36<.01	<3	3.07	.05	.15	<2	4	
312219	<1	39	14	114	<.3	49	18	793	5.21	26	<8	<2	16	12	<.2	<3	<3	12	.09	.043	45	43	1.50	39<.01	<3	2.89	.05	.15	2	<2	
312220	1	17	18	63	<.3	29	9	581	3.02	62	<8	<2	10	7	<.2	<3	<3	6	.04	.028	26	31	.65	27<.01	<3	1.51	.03	.10	3	9	
312221	1	34	7	24	<.3	6	<1	74	2.73	25	<8	<2	5	2	<.2	<3	<3	4	<.01	.024	15	20	.13	6<.01	<3	.46	.01	.03	4	13	
312222	4	7	9	17	<.3	7	1	123	1.11	73	<8	<2	6	6	<.2	<3	<3	3	.07	.054	14	26	.21	11<.01	<3	.49	.01	.04	5	5	
STANDARD C3/AU-R	26	66	35	166	5.3	40	12	790	3.47	59	20	3	21	30	23.5	15	23	74	.58	.096	18	174	.65	150 .09	23	1.78	.04	.17	15	473	
STANDARD G-2	1	4	<3	42	<.3	9	4	555	2.14	<2	<8	<2	4	76	<.2	<3	<3	39	.67	.107	8	83	.64	230 .13	<3	.95	.08	.49	<2	<2	

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY ICP-ES.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 25 2000

DATE REPORT MAILED: Oct 4/00

SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data LFA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
312223	4	4	26	8	.3	3	<1	54	.76	13	<8	<2	2	2	<.2	<3	<3	2	.01	.007	2	28	.07	3	<.01	<3	.14	.01	.01	7	<2
312224	2	6	10	8	<.3	5	1	53	.95	110	<8	<2	3	8	<.2	<3	<3	2	<.01	.021	12	22	.06	5	<.01	<3	.16	<.01	.02	5	9
312225	4	32	28	77	<.3	22	10	417	4.34	20	<8	<2	17	7	.2	<3	<3	9	.01	.036	28	33	.74	34	.01	<3	1.55	.01	.16	2	2
312226	2	14	15	35	<.3	11	2	176	1.97	6	<8	<2	8	4	<.2	<3	<3	7	.01	.017	33	23	.35	19	<.01	<3	.80	.01	.09	3	<2
312227	3	10	5	19	<.3	8	2	86	1.07	74	<8	<2	4	2	<.2	<3	<3	3	.01	.006	10	26	.13	10	<.01	<3	.40	.01	.05	5	<2
312228	2	5	23	6	<.3	5	1	39	.61	2024	<8	<2	<2	2	<.2	<3	<3	2	.01	.003	6	22	.01	17	<.01	<3	.09	<.01	.01	7	27
312229	3	11	14	52	<.3	16	3	179	2.49	10	<8	<2	6	2	<.2	<3	<3	5	.01	.008	13	30	.45	12	<.01	<3	1.08	.01	.05	4	8
312230	2	7	5	24	.3	6	1	132	1.29	10	<8	<2	6	3	<.2	<3	<3	4	.02	.018	21	27	.21	5	<.01	<3	.46	<.01	.02	4	4
312231	3	26	23	68	<.3	23	8	387	3.74	4	<8	<2	16	6	.2	<3	<3	9	.02	.035	35	31	.78	32	.03	<3	1.41	.01	.14	2	<2
312232	2	28	30	53	<.3	15	7	375	4.85	<2	<8	<2	20	10	<.2	<3	<3	7	.03	.035	12	29	.67	40	<.01	<3	1.39	.02	.17	<2	5
312233	3	1	8	38	<.3	4	3	395	2.00	<2	<8	<2	9	22	<.2	<3	<3	18	.24	.042	20	16	.40	111	.15	<3	1.16	.08	.76	2	<2
312234	1	31	1646	80	5.3	5	<1	115	2.52	3	<8	<2	8	4	.5	<3	10	5	.01	.021	14	24	.23	18	<.01	<3	.47	.01	.09	9	3
RE 312234	1	31	1653	79	5.3	5	<1	116	2.53	2	<8	<2	8	4	.4	<3	10	4	.02	.021	14	23	.23	19	<.01	<3	.48	.01	.09	9	4
312235	4	2	12	7	.4	4	1	70	.43	20	<8	<2	2	1	<.2	<3	<3	1	.02	.007	4	27	.03	2	<.01	5	.07	<.01	.01	6	4
312236	1	6	15	19	<.3	8	1	113	1.02	<2	<8	<2	4	1	<.2	<3	<3	5	.01	.008	13	27	.15	1	<.01	<3	.36	<.01	.01	4	6
312237	5	34	27	75	<.3	13	6	385	4.43	2	<8	<2	14	13	<.2	<3	<3	12	.01	.030	16	38	1.11	43	<.01	<3	1.93	.03	.16	<2	<2
312238	2	15	256	12	1.9	5	<1	58	1.34	<2	<8	<2	<2	1	<.2	<3	4	3	<.01	.005	1	27	.04	11	<.01	<3	.14	.01	.04	7	3
312239	4	4	5	9	<.3	7	2	84	.60	3	<8	<2	4	2	<.2	<3	<3	3	.02	.014	16	31	.06	3	<.01	<3	.15	<.01	.01	5	9
312240	<1	14	10	51	<.3	14	4	292	2.64	2	<8	<2	8	3	<.2	<3	<3	9	.01	.014	22	31	.55	22	<.01	<3	1.19	.01	.10	3	<2
312241	2	13	11	40	.4	10	3	149	2.20	2	<8	<2	10	4	<.2	<3	<3	6	.01	.016	24	29	.38	22	<.01	<3	.88	.01	.10	2	2
STANDARD C3/AU-R	24	63	33	169	5.3	38	12	775	3.38	57	20	2	20	28	23.4	16	24	75	.55	.096	17	166	.62	147	.09	24	1.69	.04	.16	15	463
STANDARD G-2	2	4	3	44	<.3	9	4	550	2.12	<2	<8	<2	4	74	<.2	<3	<3	39	.64	.108	7	82	.62	231	.14	3	.92	.08	.50	2	<2

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

AA
LL

ASSAY CERTIFICATE

AA
LL

Equity Engineering Ltd. PROJECT ATH00-01 File # A003759R
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Stewart Harris

SAMPLE#	S.Wt gm	NAu mg	-Au gm/mt	TotAu gm/mt
231056	513	2.35	18.47	23.05

-AU : -150 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -150 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK REJ.

DATE RECEIVED: OCT 10 2000 DATE REPORT MAILED: *Oct 13/00* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

AA

ASSAY CERTIFICATE

AA

Equity Engineering Ltd. PROJECT ATH00-01 File # A003759R2
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Stewart Harris

SAMPLE#	Au** gm/mt
312216	2.51

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: OCT 10 2000

DATE REPORT MAILED: *Oct 13/00*

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Statistics - Percentile Rank

1996 - 2000 Rock Samples

Units	ppb Au	ppm Ag	% Al	ppm As	ppm B	ppm Ba	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	ppm Cu	% Fe	ppm Ga	ppb Hg	% K	ppm La	% Mg	ppm Mn	ppm Mo	% Na	ppm Ni	% P	ppm Pb	ppm Sb	ppm Se	ppm Sr	% Ti	ppm Tl	ppm Te	ppm Tb	ppm U	ppm V	ppm W	ppm Zn	ppm Th		
Population	137	137	137	137	137	137	137	137	137	137	137	137	137	137	87	87	137	137	137	137	137	137	137	137	137	137	87	87	137	137	87	87	137	137	137	137	137	137
Max Value	99999	35.725	3.07	99999	13	214	31.8	1.72	41	149	51	304.1	43.49	7	205	0.17	90	1.7	1944	5	0.06	172	0.119	11537	40	8.1	84	0.03	23.5	18.7	9	16	2280	2536	38			
Min Value	0	0	0.02	0	0	0	0	0	0	0	11	0	0.26	0	0	0	1	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.3	0	
98th	24465.5	18.1	2.20	69688	8	39.28	11.96	0.68	1.6	25.3	40.1	76.9	8.34	5.7	128.6	0.19	83.4	1.19	1048.3	4.0	0.06	82	0.070	8082.7	21.2	6.0	21.8	0.01	8.1	4.5	6.3	14.3	928.1	326.8	18.5			
95th	2020.0	8.5	1.86	28940.2	5.4	39.2	8.8	0.43	0.5	18.0	33.2	87.6	6.58	4.1	109.4	0.15	48.4	0.97	879.8	4.0	0.03	47	0.062	2611.7	3.9	2.9	18.0	0.01	2.8	0.9	3.0	43.0	243.8	116.3	17.0			
90th	838.6	2.4	1.40	12412.4	4	30.4	2.0	0.13	0.3	12.4	31.0	40.3	5.30	3.2	92.2	0.11	33.8	0.71	541.0	4.0	0.02	29	0.032	565.9	4.5	0.4	12.0	0.01	1.5	0.3	5.0	10.0	14.0	88.1	13.4			
85th	441.4	1.7	1.22	1888.3	3	25.2	2.6	0.06	0.2	8.0	26.0	35.3	4.35	2.8	52.4	0.09	28.2	0.82	281.0	3.1	0.01	22	0.026	134.4	2.8	0.3	10.8	0.01	0.3	0.3	9.0	9.0	89.2	36.0				
80th	170.0	0.8	1.00	3316.9	2	21	0.2	0.07	0.2	8.0	26.0	31.8	3.84	2.5	37.0	0.06	22.0	0.46	317.2	3.0	0.01	21	0.021	106.1	2.0	0.0	8.0	0	0.0	0.0	0.0	7.0	8.0	84.1	8.0			
70th	73.8	0.5	0.80	2765.5	0	18	0.0	0.03	0.1	8.0	27.0	30.9	3.04	1.7	23.0	0.05	18.9	0.35	243.5	2.3	0.01	17	0.019	49.0	0.8	0.0	6.2	0	0.0	0.0	0.0	6.0	7.0	81.2	7.0			
60th	11.6	0.3	0.60	74.0	0	13.8	0.0	0.02	0.1	4.0	28.0	15.0	2.28	0.8	13.8	0.04	15.0	0.28	193.4	2.0	0.01	13	0.012	28.6	0.2	0.0	4.0	0	0.0	0.0	0.0	4.0	6.0	42.0	6.0			
50th	8.6	0.1	0.48	33.0	0	10	0.0	0.01	0.0	3.0	24.0	12.1	1.76	0.0	9.0	0.03	12.0	0.17	156.0	2.0	0.01	10	0.010	23.0	0.0	0.0	3.0	0	0.0	0.0	0.0	3.0	5.0	32.0	5.0			
40th	3.0	0.0	0.33	71.8	0	8	0.0	0.01	0.0	2.0	22.4	10.5	1.28	0.0	0.0	0.03	10.0	0.10	117.6	1.3	0.00	8	0.007	14.0	0.0	0.0	3.0	0	0.0	0.0	0.0	3.0	6.0	24.0	4.0			
30th	3.0	0.0	0.25	40.0	0	9	0.0	0.01	0.0	1.0	21.0	8.9	1.09	0.0	0.0	0.03	7.0	0.07	84.0	1.0	0.00	9	0.006	11.8	0.0	0.0	2.0	0	0.0	0.0	0.0	2.0	4.0	17.4	2.0			

Correlation Coefficients

1996 - 2000 Rock Samples

	Au	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Sr	Ti	Te	Tl	U	V	W	Zn	Th	
Au	1	0.3124	-0.1003	0.1602	-0.0130	-0.0042	0.1921	-0.0415	-0.0041	0.0030	-0.1083	0.0308	0.0013	0.1387	0.1028	-0.1194	0.0188	-0.0878	0.0810	-0.0338	-0.0997	0.0944	-0.1106	0.0191	0.0705	-0.2688	-0.0021	-0.0840	0.0258	0.0017	-0.0004	-0.1271	0.0155	-0.0289	-0.0053	
Ag	0.3124	1																																		
Al	-0.1075	-0.2013	1																																	
As	0.1552	0.4551	-0.0546	1																																
B	-0.0159	-0.2106	-0.1348	0.0301	1																															
Ba	-0.0042	0.0547	0.3369	0.3238	-0.1524	1																														
Bi	0.1921	0.3449	-0.0241	0.0488	0.0185	0.0093	1																													
Ca	-0.0415	-0.0614	0.0695	0.0306	0.1470	-0.0385	0.0814	1																												
Cd	-0.0041	0.0032	-0.0096	0.1394	0.3411	-0.0344	0.0888	-0.0099	1																											
Co	0.0330	-0.0413	0.1372	0.0832	-0.0228	0.0278	0.0397	0.0539	-0.0208	1																										
Cr	-0.1083	-0.1987	0.0334	-0.2712	0.1281	0.0750	0.0582	0.0000	0.0000	-0.0605	1																									
Cu	-0.0385	-0.0178	0.1334	-0.0041	-0.0392	0.1759	0.0320	-0.0433	-0.0198	0.2189	-0.0143	1																								
Fe	0.0013	0.0453	0.2580	0.2481	-0.0348	0.2289	0.0665	0.0443	0.0184	0.0004	0.0622	0.0742	1																							
Ga	-0.1387	0.1257	0.4900	-0.1895	-0.0120	0.0255	-0.0547	-0.0419	0.0979	0.0038	0.3144	0.2205	0.1932	1																						
Hg	0.1028	0.0111	-0.1249	0.0618	-0.1090	0.0115	0.0087	-0.1408	-0.0085	-0.1540	-0.1422	0.0202	0.1212	0.0167	1																					
K	-0.1194	-0.1409	0.7995	0.0241	-0.1208	0.5790	-0.0659	-0.0103	-0.0491	0.0401	0.4481	0.1667	0.7295	0.5053	0.0181	1																				
La	0.0188	0.1712	0.0690	0.4699	-0.1546	0.3436	0.2537	0.0699	0.1899	0.3090	0.3448	0.0278	0.2098	0.0470	0.0046	0.0208	1																			
Mg	0.0878	-0.1875	0.8703	0.0680	-0.1045	0.2822	-0.0685	0.1097	-0.0580	0.1138	0.0618	0.0486	0.1519	0.4308	-0.1235	0.7524	0.4439	1																		
Mn	-0.0910	-0.1726	0.9108	-0.0692	-0.1917	0.1060	0.0806	0.3467	-0.0673	0.0308	0.2703	0.1835	0.0401	0.0958	-0.1418	0.3326	0.3551	0.3293	1																	
Mo	-0.0330	0.0178	-0.1604	-0.1555	0.2706	-0.0209	-0.0135	-0.1048	-0.0930	0.0543	0.1194	0.0671	-0.0808	0.1084	-0.2834	-0.0217	-0.2185	-0.1364	-0.0518	1																
Na	-0.0991	-0.1221	0.8408	-0.0467	-0.1803	-0.0444	0.1803	-0.0333	-0.0084	0.0086	0.4727	0.0546	0.2483	-0.1723	0.3231	0.2437	0.6220	0.3047	0.0054	0.0054	1															
Ni	-0.0384	-0.1085	0.3407	0.0820	-0.0330	0.1573	-0.0305	0.0737	0.0012	0.8709	0.1020	0.2725	0.1066	-0.0217	-0.1555	0.1782	0.4236	0.2827	0.8631	-0.0189	0.1885	1														
P	-0.1190	-0.1158	0.4077	-0.1241	0.0008	-0.1104	0.0999	0.5451	0.0830	0.1286	0.4884	0.3806	0.2808	0.2600	-0.0578	0.3712	0.3087	0.4744	0.3309	0.0021	0.3479	0.3218	1													
Pb	0.0151	0.0115	-0.1935	0.4083	0.2148	-0.0773	0.3830	-0.0872	0.4730	-0.0730	-0.1367	-0.0282	0.0246	0.1421	0.5181	-0.1318	0.1504	-0.1769	-0.1608	-0.0213	-0.0884	-0.1081	-0.1059	1												
Sb	0.0705	0.8330	-0.1514	0.7498	0.1618	0.5482	0.3222	-0.0338	0.2481	-0.0041	0.2491	0.0390	0.1907	0.0745	0.4488	-0.1012	0.2803	0.1808	0.4884	-0.0171	0.1054	-0.0080	-0.0883	0.8073	1											
Se	0.2186	0.7181	0.1436	0.2538	0.3681	0.0062	0.6168	-0.0545	0.4235	-0.0074	-0.0903	0.0635	0.0497	0.2469	0.1715	-0.0377	0.2643	-0.1380	-0.1322	0.3501	-0.0990	-0.0650	-0.0007	0.6424	0.5525	1										
Si	-0.0221	0.0592	0.2080	0.2224	0.0091	0.7341	0.0871	0.2586	0.0173	0.0024	0.0678	0.0804	0.1081	0.0100	0.3185	0.3300	0.4158	0.1674	0.1319	0.0883	0.3198	0.1486	0.0081	0.0381	-0.1159	0.0917	1									
Ti	-0.0660	-0.1092	0.2688	-0.1336	0.1391	0.0947	0.0258	0.1405	-0.0400	-0.0227	0.1835	0.0235	0.0217	0.1387	-0.2590	0.3290	0.0013	0.2889	0.0767	0.0899	0.2273	0.0178	0.0830	0.1052	-0.0680	0.1065	0.0278	1								
Te	0.0218	0.2151	0.0624	0.1716	0.0046	-0.0182	0.4717	0.0843	0.0810	0.0711	0.0052	0.0034	0.0042	0.0180	-0.0712	-0.0091	0.1425	0.0830	-0.0227	0.0033	0.0078	-0.0043	-0.0634	0.3607	0.1463	0.2848	0.0514	-0.1147	1							
Tl	0.0017	0.7498	-0.1250	0.0721	0.4875	0.2907	0.0182	0.2907	-0.0337	0.0048	0.0581	0.3606	0.2071	-0.0270	0.1306	-0.1225	0.0788	0.3696	-0.0857	-0.0562	0.0477	0.7171	0.5526	0.8137	0.1109	-0.0818	0.1831	0.1831	1							
U	-0.0004	0.0646	0.0437	-0.0429	0.2090	0.1233	0.0502	0.0193	-0.0144	0.0307	0.0128	0.0290	0.0180	-0.2842	-0.2496	-0.0948	0.0346	0.0261	0.0015	0.0015	0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	-0.0015	1							
V	-0.1271	-0.1622	0.8875	0.0888	-0.1816	0.2883	-0.0376	0.4055	-0.0547	0.0688	0.5046	0.2259	0.1314	0.4688	-0.1390	0.6651	0.3906	0.6093	0.3769	-0.1653	0.5333	0.2343	0.4510	-0.1693	-0.0672	-0.1190	0.1224	0.3566	0.0133	-0.0857	0.0877	1				
W	0.0190	0.0107	-0.0085	0.0867	0.1613	-0.0738	0.1320	0.0023	0.1110	-0.0187	0.0487	0.0288	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	0.0087	1						
Zn	-0.0285	0.3504	0.0059	0.1457	0.2234	-0.0407	0.1545	-0.0382	0.9718	0.0148	0.0303	0.0331	0.0651	0.1750	0.0278	-0.0143	0.1890	0.0198	-0.0038	-0.0604	0.0372	0.0501	-0.0148	0.5358	0.3000	0.3869	0.0184	-0.0436	0.7518	0.4154	-0.0475	0.0130	0.1527	1		
Th	-0.0053	-0.0274	0.0004	0.0255	-0.1700	-0.0012	-0.0080	0.0047	-0.1190	-0.0562	0.0400	-0.0503	-0.0503	-0.0503	-0.1070	-0.0891	0.3699	0.0082	0.2426	-0.0771	0.0165	0.0149	0.0048	-0.2206	-0.2214	-0.1277	0.2021	0.2270	0.0096	-0.1390	0.9117	0.9602	-0.1400	-0.0085	1	

APPENDIX F

SOIL SAMPLE CERTIFICATES OF ANALYSIS AND STATISTICAL TABLES

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GEOCHEMICAL ANALYSIS CERTIFICATE

44

Equity Engineering Ltd. PROJECT ATH00-01 File # A003760 Page 1
700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Stewart Harris

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
L123N 9300E	3.53	91.54	41.30	104.5	139	71.9	38.2	843	4.59	5.5	4.4	4.4	26.5	8.1	.18	.31	.51	14	.03	.070	47.6	20.8	.47	33.4	.008	2	1.71	.003	.02	1.4	1.5	.03	.03	28	.7	.07	3.6	15
L123N 9350E	1.43	57.22	49.31	83.5	109	22.4	14.7	449	4.70	5.6	2.7	1.6	22.0	13.3	.07	.37	.56	18	.01	.077	41.1	22.5	.56	29.2	.009	2	1.48	.003	.04	2.1	1.2	.04	.03	22	.5	.06	4.8	15
L123N 9400E	1.21	61.23	73.58	92.6	151	34.7	26.0	595	5.01	51.9	3.6	1.2	28.5	15.8	.19	.39	.60	12	.03	.076	48.8	22.2	.49	29.7	.007	3	1.40	.006	.03	.9	1.1	.04	.03	16	.6	.15	4.3	15
L123N 9450E	1.39	50.91	62.54	74.8	135	19.6	9.4	366	4.99	54.5	2.8	1.9	28.6	11.6	.05	.43	.60	15	.01	.081	40.3	23.9	.50	21.9	.005	4	1.31	.003	.03	1.2	1.0	.05	.03	11	.6	.14	4.5	15
L123N 9500E	1.40	49.60	48.40	71.4	100	11.4	5.8	290	5.00	7.2	2.3	1.0	31.4	6.0	.03	.28	.60	13	<.01	.069	47.8	24.9	.68	13.6	.003	2	1.49	.002	.03	.3	1.2	.03	.03	<.5	.6	.04	4.8	15
L123N 9550E	3.00	39.49	44.95	61.2	143	11.1	4.9	284	4.43	92.7	1.7	4.9	20.2	12.3	.03	.43	.73	12	.01	.072	68.3	24.8	.71	27.3	.003	<1	1.39	.003	.03	1.3	1.1	.05	.02	7	.6	.10	4.7	15
L123N 9600E	.96	46.45	42.69	71.8	114	13.9	6.5	274	4.56	205.4	2.2	3.2	25.1	5.2	.03	.48	.46	13	.01	.059	55.0	23.3	.63	18.8	.004	6	1.52	.003	.03	2.8	1.2	.03	.02	<.5	.5	.17	4.7	15
L123N 9650E	1.49	48.07	39.34	70.5	88	11.1	5.8	300	4.71	7.5	1.6	1.8	26.1	6.1	.04	.28	.61	15	.01	.069	59.1	28.9	.69	19.7	.007	1	1.56	.004	.03	.3	1.3	.03	.02	5	.5	.07	5.2	15
L123N 9700E	1.53	40.07	38.28	80.6	115	20.2	10.0	345	4.31	23.3	1.8	1.6	20.4	6.9	.06	.29	.53	16	.01	.069	58.5	22.7	.65	22.4	.009	<1	1.50	.004	.03	.6	1.2	.04	.02	5	.6	.07	4.7	15
L123N 9750E	1.93	39.98	34.35	68.0	127	14.8	7.6	338	4.13	10.6	1.6	2.9	19.6	6.6	.05	.35	.53	14	.01	.076	56.9	24.5	.64	21.1	.007	3	1.45	.005	.03	1.9	1.2	.04	.02	13	.8	.04	4.8	15
L123N 9800E	.85	26.29	18.14	44.2	100	11.0	4.4	178	2.38	10.2	1.5	1.6	2.2	5.8	.06	.24	.26	14	.02	.073	21.9	12.1	.33	24.3	.012	<1	1.22	.009	.03	.3	.6	.04	.05	69	.6	.04	3.8	15
L123N 9850E	.95	26.09	23.77	40.4	158	11.7	4.1	135	2.88	11.9	1.4	4.6	5.7	6.5	.04	.30	.32	15	.01	.061	20.4	14.1	.24	19.1	.013	2	.71	.009	.03	.3	.6	.02	.02	22	.4	.02	3.6	15
L123N 9900E	1.35	41.60	32.26	79.4	83	16.2	9.1	325	4.42	51.8	2.0	4.6	21.6	6.3	.03	.36	.49	13	<.01	.052	46.7	29.1	.86	25.5	.004	<1	1.80	.003	.03	.4	1.2	.03	.02	<.5	.5	.04	5.5	15
L123N 9950E	1.08	26.62	25.36	57.0	152	11.0	4.0	201	3.55	17.8	1.1	2.7	11.4	5.4	.04	.27	.43	13	.01	.042	37.6	20.4	.60	26.2	.005	3	1.40	.006	.02	.3	.9	.03	.02	16	.4	.03	5.3	15
L123N 9950E-B	.26	17.32	2.75	32.8	25	10.3	6.7	288	1.88	1.8	.3	5.0	1.7	38.8	.07	.24	.04	58	.39	.056	5.8	16.4	.40	76.7	.089	2	1.14	.029	.09	<.2	2.0	.03	<.01	13	<.1	.02	3.4	15
L123N 9950E-D	1.13	30.64	29.60	60.0	179	11.7	4.6	225	3.96	20.6	1.3	3.3	13.9	5.6	.05	.29	.47	13	.01	.045	38.2	24.0	.65	27.7	.005	2	1.53	.006	.03	.3	1.0	.03	.02	13	.4	.05	5.4	15
L123N 10000E	.72	31.43	25.85	42.9	225	8.2	5.2	279	2.86	62.0	1.4	3.4	4.4	6.7	.03	.28	.33	12	.05	.081	28.3	16.7	.39	21.1	.008	3	1.25	.010	.02	.7	.8	.03	.03	14	.5	.03	3.6	15
L123N 10050E	2.47	44.96	43.42	84.5	121	28.4	10.6	285	4.78	102.5	1.9	7.6	12.3	12.7	.06	.57	.55	13	.01	.083	40.1	25.1	.77	31.6	.004	2	1.63	.003	.03	.6	1.0	.04	.03	12	.8	.09	4.6	15
L123N 10100E	.42	13.15	12.12	20.1	222	3.8	1.9	87	1.40	32.9	.6	12.7	.6	4.9	.03	.12	.15	11	.02	.034	12.7	5.4	.15	19.8	.013	<1	.75	.015	.02	.4	.5	<.02	.02	16	.3	.04	2.8	15
L123N 10150E	.75	18.71	15.75	26.2	239	4.2	2.1	178	2.03	28.1	1.0	4.6	2.0	4.1	.03	.21	.24	11	.02	.049	18.3	12.6	.24	16.3	.012	<1	1.00	.013	.02	<.2	.6	.02	.03	18	.4	.02	3.5	15
L123N 10200E	.93	15.76	17.18	37.9	121	6.8	2.7	138	2.74	62.1	.7	5.6	1.5	4.9	.06	.23	.28	13	.01	.061	28.5	14.1	.37	19.6	.005	1	1.04	.006	.02	.4	.4	.03	.02	36	.4	.03	4.7	15
RE L123N 10200E	.93	16.44	17.35	37.0	113	7.1	2.6	137	2.71	61.1	.7	6.5	1.4	5.0	.06	.23	.29	15	.01	.061	28.5	14.6	.37	19.4	.005	3	1.03	.006	.03	.4	.4	.02	.02	27	.4	.02	4.7	15
L121N 8650E	.82	113.09	140.96	164.3	301	70.7	37.2	674	6.08	59.2	2.9	23.7	24.1	4.5	.25	4.39	.94	14	.03	.060	44.5	18.9	.25	14.7	.001	4	1.34	.002	.04	<.2	1.8	.21	.04	23	.7	.55	3.9	15
L121N 8750E	1.63	127.54	96.16	137.4	205	43.8	23.3	484	8.83	.8	4.4	1.6	72.8	61.9	.04	.13	1.30	16	.01	.101	42.6	36.4	.91	70.9	.002	1	2.61	.011	.03	<.2	2.2	.03	.16	17	.8	.11	6.7	15
L121N 8800E	2.14	73.99	64.89	99.7	76	22.1	8.3	464	6.64	.3	3.0	1.7	43.1	11.6	.03	.13	1.04	15	<.01	.074	35.0	39.0	1.03	19.0	.002	1	2.23	.004	.03	<.2	1.8	.04	.06	<.5	.5	.07	6.8	15
L121N 8900E	2.69	62.25	66.76	106.1	72	41.6	28.3	837	6.42	.4	2.5	1.5	33.6	39.9	.08	.24	1.23	12	.10	.194	63.6	35.7	1.14	43.0	.004	1	2.28	.006	.03	<.2	1.8	.02	.05	<.5	.7	.05	6.5	15
L121N 8950E	1.30	32.98	43.73	68.3	49	7.2	3.9	292	5.19	.8	1.0	1.7	26.1	9.7	.03	.23	1.22	16	<.01	.068	28.6	32.7	1.00	22.0	.003	1	1.85	.004	.03	<.2	1.4	.02	.03	<.5	.4	.03	6.0	15
L121N 9000E	2.39	41.68	58.49	90.3	88	16.6	8.0	432	5.69	.3	1.3	1.4	32.9	8.3	.04	.23	.98	15	<.01	.074	29.6	31.9	1.02	19.9	.003	2	1.92	.003	.03	.4	1.4	<.02	.03	<.5	.5	.08	5.6	15
L121N 9050E	1.69	47.94	45.73	95.5	91	28.3	13.3	482	5.30	.9	1.9	1.7	26.8	8.0	.07	.19	.68	11	.01	.067	43.7	30.5	1.02	27.9	.002	2	2.21	.003	.03	.3	1.6	.02	.04	9	.6	.04	5.7	15
L121N 9100E	1.22	44.89	41.60	95.9	40	40.4	18.6	526	4.62	3.2	2.2	1.7	22.3	11.2	.07	.25	.45	12	.02	.056	38.8	27.8	.91	31.9	.007	6	2.02	.005	.03	.2	1.5	.02	.04	10	.7	.03	5.2	15
L121N 9150E	.93	40.83	36.80	80.8	60	32.5	20.1	513	4.18	1.4	1.7	1.1	29.8	8.7	.14	.17	.38	13	.01	.055	77.1	24.4	.75	31.9	.003	1	1.81	.004	.02	<.2	1.5	<.02	.03	<.5	.3	.03	4.7	15
L121N 9200E	1.35	55.82	53.38	102.9	108	31.4	18.6	468	5.09	1.7	2.2	2.0	30.1	8.2	.06	.18	.64	13	.01	.070	63.1	27.8	.93	21.4	.004	4	2.07	.002	.03	5.7	1.6	.03	.03	8	.5	.06	5.9	15
L121N 9250E	.80	39.12	34.09	80.6	108	16.7	10.3	328	4.50	.7	1.6	1.0	23.4	6.4	.03	.10	.49	14	.01	.052	61.8	25.8	.85	25.4	.003	3	1.77	.004	.02	<.2	1.3	<.02	.02	<.5	.3	.02	5.4	15
STANDARD DS2	14.46	131.83	33.91	160.5	274	36.3	12.6	847	3.18	58.5	19.5	203.0	3.9	28.7	10.41	9.79	11.05	78	.54	.094	16.1	168.7	.62	166.1	.097	6	1.77	.030	.16	7.9	3.1	1.89	.02	236	2.2	1.72	6.2	15

GROUP 1F15 - 15.00 GM SAMPLE, 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML, ANALYSIS BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 25 2000 DATE REPORT MAILED: Oct 10/00 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	gm
L121N 9300E	.74	39.68	34.60	84.0	66	20.0	13.9	356	4.25	2.1	1.9	.6	22.5	7.0	.04	.15	.45	13	.01	.052	42.6	26.7	.82	28.1	.006	4	1.75	.004	.02	2.1	1.2	.02	.03	9	.4	.04	5.0	15	
L121N 9350E	1.33	49.92	44.43	78.0	58	12.6	7.5	369	4.76	5.1	2.5	1.9	25.8	6.8	.04	.28	.61	11	.01	.068	31.1	27.6	.80	26.6	.005	2	1.77	.003	.03	.2	1.3	.03	.03	21	.5	.06	5.3	15	
L121N 9400E	1.07	38.71	33.73	57.9	95	7.6	4.8	261	3.97	5.1	1.8	1.9	20.4	5.1	.03	.22	.49	13	.01	.062	23.5	26.1	.58	29.9	.007	2	1.34	.005	.02	.8	1.1	.02	.02	9	.5	.03	4.3	15	
L121N 9450E-A	1.14	38.62	37.52	56.2	92	11.8	5.4	233	3.74	15.2	1.7	2.3	15.2	5.6	.05	.28	.49	10	.01	.055	31.2	20.9	.54	28.6	.006	2	1.30	.004	.02	1.2	.9	.02	.03	15	.5	.10	4.1	15	
L121N 9450E-D	1.10	37.46	36.09	57.1	82	13.0	5.8	235	3.67	13.9	1.7	2.7	15.4	5.8	.06	.27	.47	10	.01	.056	30.7	20.8	.54	28.8	.006	2	1.26	.003	.02	1.5	.8	.02	.03	15	.4	.06	4.1	15	
L121N 9500E	.63	38.49	41.90	58.0	102	22.7	13.4	287	3.65	30.9	3.4	2.9	22.5	10.0	.08	.85	.30	8	.01	.073	43.5	12.1	.28	12.6	.002	1	.83	.001	.03	<.2	.8	.03	.02	<5	.2	.06	2.7	15	
L121N 9550E	.66	30.81	53.54	62.3	101	18.9	11.2	341	2.89	10.0	2.1	1.7	15.4	7.8	.09	.28	.32	11	.02	.059	35.6	17.3	.38	21.5	.006	2	1.00	.003	.03	.3	.8	.03	.01	21	.4	.07	3.1	15	
L121N 9600E	.57	23.04	53.88	50.9	121	13.1	5.8	218	2.42	9.3	1.5	1.5	9.4	7.3	.08	.30	.30	10	.03	.057	22.6	13.1	.29	25.9	.009	3	.93	.006	.03	1.2	.7	.03	.02	16	.3	.07	2.8	15	
L121N 9650E	.99	34.52	36.90	56.9	84	10.6	4.6	223	3.47	7.9	1.6	2.4	17.0	5.9	.04	.21	.42	11	.01	.044	36.4	21.6	.56	22.5	.004	1	1.29	.003	.03	.7	1.0	.03	.02	10	.4	.04	4.1	15	
L121N 9700E	1.05	41.48	37.44	63.2	171	12.0	6.2	268	4.78	11.6	1.8	1.7	20.9	5.0	.05	.26	.46	12	<.01	.062	32.3	25.2	.54	22.2	.003	1	1.37	.002	.02	.8	.9	<.02	.04	9	.5	.09	4.2	15	
L121N 9750E	.73	23.48	21.48	43.6	131	8.6	4.0	176	2.43	40.3	1.3	1.2	5.3	4.6	.02	.18	.29	10	.01	.050	32.8	15.9	.44	37.6	.006	3	1.21	.006	.02	.5	.7	.04	.04	14	.4	.05	3.8	15	
L121N 9800E	.94	25.92	29.93	52.0	106	7.2	3.1	200	3.51	9.7	1.0	1.1	10.8	5.0	.06	.14	.39	11	.01	.056	28.4	23.2	.58	34.1	.003	1	1.58	.003	.03	.2	.8	.04	.03	18	.5	<.02	4.9	15	
L121N 9900E	1.41	27.04	21.46	45.8	96	8.7	4.1	210	2.97	5.6	1.1	1.3	10.0	5.1	.04	.27	.35	10	.02	.064	37.2	17.3	.46	16.6	.005	2	1.14	.006	.02	.4	.8	.03	.03	12	.5	.05	3.6	15	
L121N 9950E	1.27	31.64	26.95	59.8	137	13.0	7.0	295	3.69	12.9	1.4	2.7	15.0	4.9	.06	.28	.38	12	.01	.059	40.9	22.4	.58	18.1	.005	<1	1.39	.004	.02	.7	.9	.02	.03	15	.6	.04	4.2	15	
L121N 10000E	.99	32.51	24.55	58.9	212	14.0	7.9	239	3.27	27.2	1.4	6.4	11.1	4.4	.09	.22	.42	12	.02	.047	40.2	23.8	.63	15.6	.003	5	1.45	.004	.02	.4	.8	.04	.02	23	.4	.04	4.7	15	
L121N 10050E	1.07	33.54	29.70	66.8	171	11.0	5.2	289	4.17	58.1	1.3	5.4	15.1	4.8	.03	.39	.49	11	<.01	.058	44.7	30.4	.77	22.4	.002	2	1.58	.003	.02	.5	1.0	.02	.03	11	.4	.05	5.3	15	
L121N 10100E	.90	26.87	25.91	55.5	101	8.5	3.4	219	3.31	39.0	1.0	5.1	12.0	4.5	.02	.26	.40	11	.01	.044	42.5	23.2	.68	29.8	.003	2	1.51	.004	.02	.3	1.0	.02	.02	8	.4	.03	4.9	15	
L121N 10150E	1.03	11.67	18.71	33.1	105	7.5	6.3	192	2.32	7.6	.9	1.5	3.4	11.7	.06	.11	.39	14	.06	.051	32.3	16.4	.33	40.0	.004	<1	1.06	.004	.03	.2	.5	.05	.03	9	.4	.04	5.1	15	
L121N 10200E	1.17	10.48	26.45	36.9	135	10.7	2.9	161	2.14	12.6	.9	4.4	3.8	10.2	.04	.08	.25	10	.09	.046	18.1	14.6	.39	26.0	.004	<1	1.13	.010	.02	.2	.6	.02	.02	18	.3	<.02	3.5	15	
L119N 8600E	.98	47.19	57.12	87.8	101	25.0	11.6	335	4.48	71.9	1.6	4.5	18.1	5.0	.03	.86	.48	12	.01	.042	38.9	32.4	.80	13.8	.002	2	1.80	.003	.04	.2	1.2	.04	.03	<5	.3	.11	5.4	15	
L119N 8650E	.97	57.38	52.88	91.7	100	22.9	8.9	375	5.12	15.3	1.9	2.1	24.4	8.0	.05	.26	.59	16	.02	.053	64.5	33.9	.78	20.4	.001	3	1.95	.003	.05	<.2	1.8	.09	.04	6	.4	.10	6.0	15	
L119N 8850E	.94	63.81	69.03	114.9	150	54.8	32.8	623	4.37	77.7	3.3	2.1	25.3	5.5	.11	.45	.66	11	.01	.048	51.9	27.0	.63	12.3	.002	1	1.56	.003	.03	.6	1.5	.04	.03	14	.3	.15	4.5	15	
L119N 8900E	.74	48.93	57.69	101.3	183	40.6	26.3	611	4.15	14.1	2.6	3.0	24.2	7.4	.16	.50	.46	12	.04	.052	69.9	29.2	.69	15.2	.003	5	1.60	.004	.03	<.2	1.4	.04	.03	21	.4	.03	4.7	15	
RE L119N 8950E	1.42	75.93	59.09	108.6	105	41.7	34.7	709	5.69	7.6	2.9	2.3	36.4	17.4	.06	.22	.71	12	.03	.060	29.9	36.8	.95	23.2	.004	2	2.12	.004	.03	<.2	1.7	.03	.03	5	.6	.09	6.1	15	
L119N 8950E	1.38	77.82	58.72	109.7	114	42.5	34.7	722	5.82	7.8	2.9	1.1	36.8	16.9	.07	.21	.72	11	.03	.059	29.9	37.2	.96	23.8	.004	2	2.13	.004	.03	<.2	1.6	.03	.03	9	.6	.09	6.0	15	
L119N 9000E	1.98	41.62	46.88	62.8	66	6.6	4.0	295	5.51	1.7	1.1	.7	23.0	13.2	.03	.27	1.01	15	.01	.070	15.6	28.5	.87	19.4	.005	2	1.65	.005	.02	<.2	1.2	.02	.04	9	.6	.08	5.6	15	
L119N 9050E	3.70	60.68	63.84	84.6	63	21.1	13.9	540	6.18	1.0	2.0	1.0	34.8	29.2	.05	.31	1.12	12	.01	.101	31.5	29.4	.95	29.3	.005	3	1.81	.006	.03	<.2	1.5	.02	.05	<5	.8	.06	5.7	15	
L119N 9100E	2.05	39.51	50.32	59.1	107	6.3	3.6	301	4.57	1.0	2.2	<.2	27.4	39.7	.04	.25	1.00	11	.01	.068	39.1	30.3	.85	24.7	.010	2	1.59	.009	.03	<.2	1.5	.02	.05	<5	.7	.05	5.3	15	
L119N 9150E	2.75	40.37	51.13	64.3	33	6.5	3.1	337	5.32	.4	1.5	.7	30.0	38.6	.03	.23	1.00	11	.01	.073	54.5	31.7	.93	23.9	.006	1	1.77	.006	.02	<.2	1.4	.02	.03	<5	.6	.03	5.7	15	
L119N 9200E	1.87	37.33	47.95	67.6	56	9.6	4.5	313	4.95	1.0	1.3	.4	29.6	14.5	.04	.19	.79	10	.01	.066	30.9	29.1	.81	22.6	.004	4	1.64	.005	.03	.2	1.3	.02	.03	<5	.6	.08	5.1	15	
L119N 9250E	1.36	46.57	40.73	72.7	67	10.5	5.5	325	4.67	1.3	1.6	.3	25.9	9.3	.03	.18	.58	13	.01	.063	42.7	25.1	.73	27.0	.004	<1	1.74	.005	.03	<.2	1.2	.02	.02	<5	.5	.02	4.9	15	
L119N 9300E	.81	52.06	45.57	86.1	197	23.2	13.7	351	4.53	.9	1.9	2.4	23.2	8.9	.06	.17	.56	12	.03	.050	62.0	28.3	.91	19.0	.003	<1	1.97	.004	.03	<.2	1.4	.02	.02	16	.4	.04	5.7	15	
L119N 9350E	1.18	33.64	30.95	65.8	328	13.4	9.4	353	3.51	3.2	1.5	1.0	13.0	8.1	.10	.22	.95	11	.02	.058	29.5	23.1	.64	29.8	.006	1	1.44	.006	.03	1.1	1.0	.02	.02	<5	.5	.06	4.5	15	
STANDARD DS2	14.06	126.30	33.41	156.8	262	35.3	11.8	826	3.10	59.2	19.1	195.2	3.6	27.6	10.50	9.73	10.83	73	.53	.092	15.9	158.2	.60	161.3	.094	4	1.72	.029	.16	7.7	3.0	1.85	.03	246	2.1	1.99	6.1	15	

Sample type: SOIL SS80 60C. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Sample gm
L119N 9400E	1.17	52.22	34.89	69.1	60	12.3	6.0	268	4.71	.3	2.2	1.2	25.9	6.0	.04	.21	.51	11	.01	.055	49.7	27.9	.70	18.7	.006	<1	1.56	.002	.02	.7	.9	.02	.03	5	.4	.07	4.5	15
L119N 9450E	.96	45.84	49.12	76.0	96	15.6	8.2	317	4.40	1.0	2.0	1.1	19.2	7.6	.05	.15	.54	13	.02	.075	41.3	29.0	.79	33.1	.005	<1	1.85	.004	.03	.5	.9	.03	.04	18	.5	.03	5.1	15
L119N 9500E	1.02	37.34	28.29	62.6	116	12.4	6.3	245	3.65	3.0	2.0	.9	17.0	4.5	.09	.22	.41	12	.01	.052	28.9	20.5	.62	25.2	.005	<1	1.41	.004	.02	.5	.9	.02	.04	19	.4	.02	4.2	15
L119N 9550E	.92	35.80	35.06	71.0	156	17.0	11.4	356	3.97	4.6	1.8	2.0	17.1	6.8	.09	.51	.37	11	.01	.071	31.2	20.4	.51	24.4	.008	1	1.31	.004	.02	.9	.8	.05	.03	13	.5	.02	4.0	15
L119N 9600E	.71	20.55	26.37	49.3	316	9.2	4.5	183	2.90	2.1	1.0	2.3	9.0	4.9	.09	.23	.32	11	.01	.069	29.8	16.4	.43	20.1	.005	2	1.01	.005	.02	1.6	.6	.02	.03	33	.5	.05	4.0	15
L119N 9650E	.36	7.22	7.55	11.1	72	2.1	1.0	57	.83	.5	.4	.5	.3	4.8	.04	.07	.12	7	.05	.053	7.0	6.7	.09	18.4	.010	3	.73	.012	.02	.2	.3	<.02	.03	36	.4	<.02	2.5	15
L119N 9700E	.98	34.56	32.39	60.4	110	14.1	7.2	267	3.53	6.6	1.8	2.7	15.1	6.1	.07	.22	.38	10	.01	.056	28.0	18.0	.51	22.6	.007	1	1.22	.004	.02	1.4	.8	.02	.03	20	.5	.06	3.5	15
L119N 9750E	.68	19.59	19.05	31.7	162	7.2	3.4	163	1.91	1.3	1.0	.9	3.7	4.9	.08	.13	.23	8	.04	.056	16.4	13.0	.28	21.8	.011	3	1.06	.011	.03	.6	.5	.03	.03	31	.5	.07	3.4	15
L119N 9800E	1.07	45.28	40.89	54.9	266	12.3	4.3	218	3.15	1.8	4.4	2.0	13.2	4.7	.04	.18	.39	11	.02	.055	40.0	18.5	.58	20.7	.004	<1	1.63	.005	.02	1.2	.9	.08	.04	21	.6	.03	4.0	15
L119N 9850E	.88	31.41	38.30	62.5	103	13.0	10.0	298	3.50	11.0	1.7	1.8	15.7	7.9	.25	.23	.37	10	.07	.062	27.5	19.1	.45	15.6	.005	1	1.08	.004	.03	1.0	.8	.02	.04	12	.4	.07	3.3	15
L119N 9850E-D	.91	32.02	35.91	62.6	76	12.2	6.5	233	3.57	11.9	1.6	.8	16.4	7.8	.17	.25	.39	10	.07	.057	26.9	17.5	.44	13.2	.005	1	1.02	.003	.03	1.1	.7	.02	.04	11	.4	.08	3.3	15
L119N 9900E	.96	18.61	29.82	44.0	112	7.9	2.8	177	2.77	5.9	.8	.7	10.3	5.8	.02	.13	.38	10	.02	.044	32.4	16.6	.49	26.6	.004	1	1.20	.003	.02	.7	.6	.03	.03	23	.5	.04	4.0	15
L119N 9950E	.89	21.72	23.38	45.8	74	7.9	3.0	177	2.92	8.5	1.0	.7	9.4	5.0	.01	.13	.35	10	.01	.043	33.8	21.4	.53	25.8	.004	1	1.36	.003	.02	.3	.7	.03	.02	16	.4	.06	4.4	15
L119N 10000E	.68	13.26	18.51	37.4	170	6.1	2.1	153	1.92	1.7	1.0	1.0	3.5	8.6	.03	.10	.26	8	.08	.064	34.6	14.5	.45	22.5	.004	3	1.03	.006	.03	.3	.6	.04	.04	15	.4	.03	3.5	15
L119N 10050E	1.20	25.96	31.29	54.9	140	13.0	5.4	246	3.87	7.3	1.3	1.1	14.2	7.7	.05	.19	.51	12	.03	.048	38.4	21.0	.59	33.9	.003	<1	1.60	.005	.02	.2	.8	.04	.03	34	.6	.09	5.1	15
L119N 10100E	1.20	40.66	34.93	60.8	70	12.3	5.5	242	4.58	2.1	1.0	2.6	22.8	2.1	.01	.22	.50	12	<.01	.048	26.3	24.5	.59	20.9	.005	<1	1.47	.002	.04	.2	1.0	.03	.03	6	.4	.04	4.6	15
L119N 10150E	1.25	16.60	24.49	51.3	36	12.0	4.4	180	2.89	8.1	1.0	7.4	5.6	4.6	.10	.22	.32	13	.03	.059	26.2	16.2	.41	21.7	.009	2	1.12	.006	.03	.2	.6	.03	.03	32	.5	.03	4.1	15
RE L119N 10100E	1.18	40.71	34.64	61.9	70	12.1	5.5	246	4.65	2.4	1.0	2.4	22.5	2.1	.01	.20	.48	11	.01	.047	26.5	23.2	.60	21.8	.005	<1	1.57	.002	.04	.2	.9	.03	.03	<5	.4	<.02	4.6	15
L117N 8400E	1.25	67.81	47.49	103.5	148	55.8	34.2	868	4.99	2.0	2.7	2.0	22.6	11.2	.11	.20	.67	14	.01	.054	42.2	29.7	.86	49.6	.020	<1	2.19	.006	.03	.2	1.7	.03	.04	20	.6	<.02	5.4	15
L117N 8450E	1.11	76.53	46.45	114.9	102	70.2	38.4	833	5.28	2.7	2.8	2.2	26.1	24.1	.10	.18	.74	13	.01	.067	65.6	29.5	.93	36.1	.030	<1	2.07	.007	.02	1.9	1.8	.02	.04	6	.8	.10	5.4	15
L117N 8500E	1.05	62.08	41.95	87.4	92	37.1	23.9	565	5.35	2.2	2.2	1.2	22.9	21.0	.12	.23	.57	11	.01	.060	34.9	27.3	.72	30.8	.028	<1	1.65	.007	.02	.7	1.4	<.02	.04	29	.6	.04	4.6	15
L117N 8600E	2.07	62.15	72.61	118.4	150	85.5	49.2	1103	4.83	1.8	3.6	3.5	26.2	7.1	.11	.35	.71	16	.01	.059	89.9	33.4	.76	37.3	.009	<1	2.15	.003	.11	<.2	1.9	.09	.02	13	.7	.10	4.2	15
L117N 8650E	.88	54.47	39.72	101.1	102	44.3	31.3	515	4.33	4.4	2.5	3.4	20.1	5.3	.05	.53	.42	14	.01	.047	56.4	31.0	.81	22.7	.006	<1	1.98	.002	.03	2.1	1.4	.07	.01	8	.4	.03	5.5	15
L117N 8700E	.75	44.07	35.13	94.0	92	30.2	20.7	482	4.39	2.7	2.0	.7	21.6	4.6	.06	.17	.44	11	.01	.038	40.4	28.8	.88	22.5	.009	<1	2.00	.002	.03	.2	1.6	.03	.01	9	.3	<.02	5.2	15
L117N 8800E	.88	33.33	57.08	96.6	124	46.6	23.4	709	3.41	114.4	2.1	4.8	18.7	5.1	.16	.69	.43	11	.01	.040	52.0	21.5	.52	19.0	.005	1	1.31	.002	.03	.8	1.4	.06	.01	21	.4	.11	3.9	15
L117N 8900E	1.70	57.58	53.31	74.0	109	28.2	16.7	453	4.84	20.1	2.4	2.2	29.0	4.8	.05	.31	.66	11	<.01	.063	24.1	24.8	.61	18.7	.010	<1	1.49	.002	.02	.7	1.3	.04	.03	14	.6	.09	4.0	15
L117N 8950E	2.51	53.60	51.74	75.3	102	20.5	10.3	402	5.29	22.9	2.1	.7	30.1	3.6	.04	.30	.74	13	<.01	.067	23.6	26.6	.69	22.5	.022	<1	1.58	.002	.10	.2	1.3	.04	.04	12	.6	.10	4.6	15
L117N 9150E	1.91	38.52	35.74	71.0	79	9.7	5.1	355	4.51	2.0	1.6	1.4	21.0	27.5	.05	.18	.62	12	.01	.063	26.1	28.2	.84	40.7	.012	<1	1.97	.006	.03	<.2	1.2	.03	.02	10	.6	.06	5.0	15
L117N 9200E	1.93	44.72	33.48	65.1	51	6.9	3.6	300	5.31	<.1	1.6	.7	29.0	36.8	.04	.18	.63	11	.01	.060	33.4	28.0	.82	36.5	.013	<1	1.78	.003	.02	<.2	1.2	<.02	.02	<5	.6	.04	5.0	15
L117N 9250E	2.08	64.84	64.59	76.4	91	15.5	7.8	354	5.42	.8	2.7	1.4	37.7	154.4	.02	.20	.81	14	.02	.082	56.5	34.3	.88	74.3	.011	<1	2.28	.006	.04	<.2	1.5	.04	.04	11	.7	.11	5.7	15
L117N 9300E	2.12	50.35	63.25	67.9	137	13.2	6.2	326	5.32	2.0	3.0	1.3	31.1	127.9	.03	.23	.78	13	.02	.092	55.7	29.4	.82	66.9	.007	<1	2.08	.009	.04	<.2	1.3	.03	.05	25	.8	.11	5.3	15
L117N 9300E-B	.26	16.50	2.55	28.0	21	8.4	5.9	248	1.63	1.1	.3	2.0	1.4	31.4	.06	.22	.04	48	.32	.049	4.9	12.8	.35	69.9	.068	4	.97	.025	.08	<.2	1.7	.03	<.01	10	<.1	.04	2.9	15
L117N 9300E-D	2.08	50.20	58.91	69.5	126	13.6	6.3	329	5.42	2.1	3.2	2.2	32.6	139.1	.04	.23	.76	12	.03	.102	58.6	31.8	.83	65.7	.006	<1	2.08	.009	.03	<.2	1.4	.03	.06	21	.8	.13	5.5	15
STANDARD DS2	14.35	124.93	32.40	156.1	264	35.2	11.9	812	3.07	58.3	18.8	192.4	3.6	27.4	10.17	9.76	10.78	72	.52	.091	15.5	158.7	.60	160.4	.090	1	1.69	.029	.16	7.7	2.9	1.83	.03	234	2.2	1.80	6.	

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
L117N 9350E	1.43	37.52	37.40	60.5	82	9.9	5.1	300	4.33	2.1	1.6	1.4	16.4	47.0	.12	.22	.60	12	.02	.084	28.0	29.2	.75	45.4	.005	2	1.97	.005	.03	<.2	1.0	.05	.04	34	.6	.02	5.4	15
L117N 9450E	1.41	42.44	31.40	70.5	775	16.2	6.9	275	4.03	.1	5.3	1.9	21.3	8.2	.04	.15	.63	13	.01	.047	52.5	25.8	.80	22.1	.003	2	1.85	.003	.03	.2	1.2	.04	.08	15	.6	.07	5.1	15
L117N 9500E	.67	35.41	31.74	77.5	125	16.6	8.4	287	3.93	.2	1.3	1.8	20.7	8.4	.04	.11	.42	11	.02	.045	47.7	26.1	.85	16.7	.003	2	1.76	.003	.02	<.2	1.0	<.02	.02	11	.3	.05	5.0	15
L117N 9550E	.81	37.64	35.37	79.9	153	17.3	13.8	380	4.21	.2	1.5	.5	22.8	7.1	.04	.13	.47	12	.01	.051	52.9	27.9	.88	15.4	.003	1	1.84	.003	.02	<.2	1.2	.02	.02	12	.3	.04	5.3	15
L117N 9600E	1.05	33.58	30.41	71.9	112	13.5	6.9	314	4.11	.7	1.5	.9	18.6	5.0	.04	.18	.46	12	.02	.047	46.4	25.2	.78	17.7	.003	1	1.76	.003	.02	.6	1.0	.03	.02	24	.5	.04	5.0	15
L117N 9650E	.86	28.98	25.47	66.9	230	10.2	8.4	349	3.93	.5	1.8	.6	14.7	4.8	.03	.14	.47	12	.01	.048	40.8	23.7	.70	24.0	.004	2	1.73	.003	.02	.5	.9	.03	.01	15	.5	.03	4.9	15
L117N 9700E	.95	49.88	34.81	82.5	137	21.1	11.5	435	4.76	12.8	2.6	3.0	23.8	8.7	.04	.35	.51	11	.02	.049	49.9	29.4	.90	18.0	.005	1	2.14	.002	.02	.3	1.3	.02	.03	14	.4	.06	5.4	15
L117N 9750E	.98	57.51	40.92	86.2	108	27.7	15.4	461	4.97	11.5	2.6	3.7	25.0	6.2	.04	.51	.55	12	.01	.048	49.4	31.4	.81	19.2	.005	1	2.00	.003	.03	.7	1.5	.03	.03	5	.5	.09	5.1	15
L117N 9800E	1.01	54.25	41.67	83.9	114	25.8	9.6	409	5.42	4.9	2.3	3.8	26.8	3.9	.04	.69	.58	11	.01	.046	49.2	30.9	.79	12.6	.002	<1	1.95	.002	.03	.3	1.2	.04	.04	17	.5	.04	5.2	15
L117N 9850E	1.03	55.08	41.75	85.6	80	27.9	19.3	622	5.29	3.2	2.2	.9	27.2	3.5	.02	.46	.56	13	<.01	.047	37.0	31.5	.83	20.4	.007	<1	2.10	.002	.04	.3	1.4	.05	.03	6	.4	.08	5.3	15
L117N 9900E	1.06	52.74	43.13	74.4	88	12.8	6.6	379	5.17	.3	2.5	.7	30.6	3.2	.02	.26	.59	11	<.01	.046	27.4	27.5	.83	17.6	.007	<1	2.01	.002	.03	.5	1.4	.03	.05	<5	.3	.04	5.3	15
L117N 9900E-D	1.07	54.31	44.42	76.8	92	12.7	7.0	395	5.34	.3	2.5	1.1	31.4	3.3	.01	.30	.58	11	<.01	.047	27.9	31.2	.86	19.2	.008	<1	2.10	.002	.03	.6	1.4	.03	.05	10	.4	.05	5.4	15
L117N 9950E	1.11	63.03	45.74	81.7	105	18.4	9.0	298	5.30	1.8	2.6	4.2	32.6	5.9	.02	1.02	.60	11	<.01	.053	42.7	29.2	.65	17.2	.004	<1	1.81	.002	.03	<.2	1.4	.04	.04	9	.4	.04	4.8	15
L117N 10000E	.90	64.71	48.99	93.1	106	29.3	16.4	507	5.33	.9	2.9	2.4	34.1	7.2	.03	.67	.55	13	<.01	.056	63.5	29.4	.76	19.3	.005	<1	2.04	.002	.03	<.2	1.5	.04	.04	20	.4	.02	5.1	15
L117N 10050E	1.66	54.78	51.35	77.2	143	23.2	12.2	347	5.23	9.8	2.5	6.0	32.3	5.3	.02	1.40	.63	11	<.01	.073	49.1	23.8	.57	15.0	.003	1	1.50	.002	.03	.2	1.3	.06	.04	15	.7	.07	4.1	15
L117N 10100E	2.35	53.79	51.13	73.9	136	13.5	7.1	301	5.88	11.1	2.3	2.6	34.6	6.2	.01	1.12	.76	11	<.01	.077	42.6	24.9	.70	17.5	.004	<1	1.56	.002	.03	.3	1.4	.05	.07	12	.8	.11	4.3	15
L117N 10150E	3.65	59.77	58.92	67.5	233	13.6	5.9	316	6.83	32.9	2.5	28.3	32.1	7.2	<.01	1.47	.85	11	<.01	.104	44.1	24.7	.64	15.0	.003	<1	1.38	.002	.03	.5	1.3	.06	.08	13	1.2	.14	4.1	15
L117N 10200E	.96	53.21	54.11	82.4	137	18.1	10.0	341	5.40	205.9	2.8	30.6	35.6	9.6	.03	.67	.58	12	<.01	.060	59.3	22.6	.67	18.1	.004	<1	1.80	.002	.03	1.1	1.3	.04	.05	<5	.3	.09	4.9	15
L115N 8400E-A	.70	42.54	50.01	85.3	96	30.0	17.9	466	3.92	39.6	1.8	1.7	23.0	7.2	.09	.44	.45	11	.02	.039	52.4	25.3	.69	22.9	.007	<1	1.77	.002	.04	.2	1.3	.05	.02	7	.4	.10	4.4	15
L115N 8400E-B	.29	17.88	2.79	32.3	20	9.9	6.2	267	1.77	1.3	.3	1.2	1.7	36.9	.09	.20	.03	55	.36	.054	6.0	14.7	.37	71.3	.078	3	1.11	.027	.09	<.2	2.0	.04	<.01	32	.1	.04	3.2	15
L115N 8400E-D	.78	45.47	53.96	89.4	117	31.7	19.7	495	4.12	42.4	2.0	1.4	24.2	7.7	.09	.44	.49	12	.02	.042	55.5	27.6	.72	25.6	.008	<1	1.88	.003	.04	.3	1.5	.05	.02	14	.4	.04	4.8	15
L115N 8450E	.77	44.63	46.01	89.4	87	26.9	16.4	474	4.14	37.3	2.5	2.4	25.1	7.3	.13	.39	.52	13	.01	.051	51.1	25.8	.70	24.1	.008	<1	1.73	.002	.03	.2	1.4	.04	.02	16	.5	.05	4.8	15
L115N 8500E	.78	57.83	49.95	86.5	97	25.3	10.0	256	4.17	9.1	2.4	3.0	26.3	8.2	.09	.68	.46	11	.01	.052	51.6	25.1	.60	21.4	.003	<1	1.59	.002	.04	.2	1.2	.06	.03	13	.4	.03	4.5	15
L115N 8550E	.77	37.59	46.05	86.7	93	23.2	12.5	412	4.00	31.1	2.7	2.2	23.5	7.0	.11	.81	.44	14	.01	.040	73.9	30.0	.66	22.8	.004	<1	1.82	.002	.04	.2	1.5	.07	.02	10	.4	.08	5.0	15
L115N 8600E	.99	45.99	37.06	73.2	99	16.3	8.5	341	4.53	23.0	2.2	1.4	27.2	6.6	.05	.40	.45	12	.01	.058	33.1	22.3	.61	17.6	.003	1	1.45	.001	.03	.3	1.1	.06	.03	27	.5	.09	4.1	15
RE L115N 8600E	1.11	46.31	38.26	71.2	108	15.9	8.8	328	4.44	24.0	2.3	1.5	28.6	7.0	.04	.41	.48	11	.01	.062	33.0	21.5	.58	16.3	.003	<1	1.38	.002	.03	.4	1.1	.06	.04	13	.5	.07	4.1	15
L115N 8650E	.87	61.95	49.96	99.3	110	49.0	23.9	529	4.69	18.9	2.8	2.2	33.2	7.5	.06	.53	.48	11	.03	.055	42.3	19.9	.60	18.6	.005	<1	1.66	.002	.03	.2	1.2	.06	.02	16	.6	.07	4.0	15
L115N 8700E	3.56	50.98	53.51	68.5	70	16.8	9.7	386	5.62	9.1	2.0	.8	29.2	6.2	.03	.79	.74	12	<.01	.081	25.7	23.6	.55	20.3	.027	<1	1.32	.001	.03	.3	1.0	.07	.04	8	1.0	.02	4.0	15
L115N 8750E	1.64	49.53	51.28	83.0	138	29.0	22.2	655	4.53	5.3	2.2	1.1	26.5	5.3	.08	.57	.65	12	.01	.058	54.0	27.7	.64	22.2	.005	1	1.60	.003	.04	.5	1.2	.07	.02	7	.5	.07	4.6	15
L115N 8800E	1.92	48.73	44.87	74.2	106	26.3	16.4	486	4.97	31.1	1.8	2.1	25.9	3.4	.06	.56	.58	10	.01	.056	32.3	23.6	.52	20.3	.009	1	1.38	.006	.02	2.4	1.1	.05	.03	8	.6	.15	3.9	15
L115N 8900E	1.36	46.63	39.23	90.2	97	57.0	38.7	1467	4.23	30.0	2.5	1.1	22.8	4.2	.09	.37	.48	11	.01	.051	57.7	22.5	.59	21.6	.005	1	1.47	.005	.02	.2	1.2	.05	.01	16	.5	.05	4.1	15
L115N 9050E	1.27	48.50	52.28	74.6	84	21.7	13.1	435	4.58	16.2	2.1	.6	28.7	5.4	.05	.26	.58	12	<.01	.058	32.6	23.7	.69	21.3	.014	1	1.69	.004	.03	.2	1.2	.03	.03	9	.5	.06	4.6	15
L115N 9100E	1.59	44.33	40.85	74.2	95	22.9	14.9	505	4.44	14.3	1.9	1.1	23.8	4.1	.07	.50	.49	11	.01	.054	34.5	21.8	.59	20.2	.012	2	1.41	.003	.03	.5	1.1	.05	.02	8	.5	.06	4.1	15
STANDARD D52	14.28	125.19	33.27	153.5	271	34.6	11.8	813	3.03	56.1	18.8	193.4	3.8	28.0	10.66	9.68	10.73	72	.52	.088	16.1	160.2	.59	159.3	.090	3	1.77	.028	.15	7.6	3.0	1.84	.02	233	2.1	1.96	5.9	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Hf	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
L115N 9150E-A	.92	45.20	46.98	72.9	84	26.7	8.5	263	5.74	.5	2.4	.3	48.0	6.6	.06	.11	.49	10	.01	.083	45.3	26.0	.65	23.4	.008	2	1.89	.004	.02	<.2	1.3	.02	.03	5	.4	.11	4.7	15
L115N 9150E-D	1.00	41.68	43.05	71.0	85	23.1	7.8	273	5.38	.4	2.3	1.2	45.1	7.8	.05	.09	.48	12	.02	.077	42.5	27.5	.70	23.4	.010	<1	1.86	.004	.03	<.2	1.3	.02	.03	9	.4	.07	4.6	15
L115N 9200E	1.41	43.27	52.71	68.7	120	25.2	13.4	402	4.37	4.3	2.2	.9	23.3	6.2	.04	.22	.59	11	.01	.062	48.7	23.1	.61	27.9	.007	<1	1.63	.004	.03	.3	1.0	.04	.02	16	6	.05	4.3	15
L115N 9250E	1.40	47.45	57.88	80.0	153	22.5	9.8	376	4.69	48.5	2.1	1.9	24.7	4.9	.03	.45	.61	11	.01	.056	44.7	27.7	.75	26.8	.007	1	1.90	.004	.04	.3	1.4	.06	.04	7	6	.13	5.3	15
L115N 9300E	.78	68.70	39.13	104.9	58	38.6	28.7	714	4.91	44.3	3.4	1.7	25.4	6.5	.05	.61	.54	14	.04	.046	70.3	37.0	1.05	35.9	.011	1	2.46	.004	.04	<.2	1.8	.03	.01	10	.4	.15	6.4	15
L115N 9350E	1.61	101.31	76.94	97.7	124	28.0	23.7	660	6.27	102.4	4.0	7.2	36.8	6.9	.07	1.14	.86	12	.02	.081	46.7	32.9	.79	21.9	.004	1	2.00	.003	.03	1.1	1.9	.04	.04	40	1.0	.26	6.0	15
L115N 9400E	1.69	99.44	66.00	90.1	83	28.0	24.5	633	5.78	140.1	3.5	5.5	29.3	5.3	.03	1.17	.72	13	.01	.073	37.9	26.9	.69	25.4	.006	1	1.80	.005	.03	1.0	1.7	.04	.03	7	1.0	.29	5.0	15
L115N 9450E	.93	63.30	35.94	77.9	115	22.0	7.8	445	4.61	44.8	2.6	6.3	19.2	4.7	.06	.93	.56	11	.02	.065	39.4	28.8	.84	19.5	.005	<1	2.03	.008	.03	.3	1.7	.03	.03	26	.6	.14	6.1	15
L115N 9500E	1.26	77.89	57.69	90.8	113	24.6	10.8	450	5.90	50.8	3.2	4.7	34.0	5.9	.04	.67	.75	13	.02	.063	44.8	31.6	.84	24.7	.006	1	2.10	.004	.03	.5	1.6	.03	.04	<5	.6	.13	5.8	15
L115N 9550E	.93	87.00	39.79	97.7	90	30.0	12.4	596	5.16	31.4	3.4	8.3	22.5	3.6	.02	.90	.62	13	.01	.054	53.1	35.8	1.03	23.9	.004	<1	2.35	.005	.03	<.2	1.9	.03	.02	22	.5	.19	7.0	15
L115N 9600E	.72	62.83	33.49	99.3	72	29.4	11.9	605	5.21	26.1	3.2	5.7	24.0	3.3	.04	.82	.57	15	.01	.046	51.0	42.5	1.13	37.6	.014	2	2.77	.005	.11	<.2	2.0	.02	.02	9	.4	.14	7.4	15
L115N 9650E	.96	58.26	41.45	97.1	92	37.1	20.4	542	4.90	19.7	2.7	3.0	27.6	5.2	.09	.51	.53	11	.01	.047	46.2	29.0	.77	29.6	.007	<1	2.01	.003	.04	.2	1.5	.03	.02	<5	.4	.11	4.9	15
L115N 9700E	1.40	77.49	64.23	84.9	165	24.5	13.3	439	5.93	6.6	2.9	1.3	33.5	6.9	.03	.48	.82	13	.01	.062	50.9	33.8	.77	23.5	.006	2	1.89	.004	.05	.6	1.7	.06	.05	21	.6	.14	5.4	15
L115N 9750E	1.03	64.36	45.01	84.9	70	24.3	12.8	441	5.83	7.0	2.4	1.7	30.6	5.3	.03	.54	.61	10	.01	.050	42.9	28.5	.77	16.6	.007	<1	1.79	.003	.04	.3	1.4	.03	.06	8	.5	.14	4.9	15
L115N 9800E	.96	57.65	41.69	87.7	91	32.5	21.5	639	5.39	5.1	2.2	<.2	28.6	3.9	.05	.57	.55	12	<.01	.043	40.7	27.5	.76	27.3	.011	3	1.96	.003	.10	.3	1.4	.04	.05	8	.2	.03	5.0	15
L115N 9850E	2.08	148.49	102.85	104.8	172	50.6	41.7	705	8.44	1.3	3.4	.9	51.1	10.0	.07	.55	.96	12	.01	.087	33.3	29.3	.66	18.6	.005	<1	1.81	.004	.02	.2	2.0	.02	.14	18	1.0	.04	4.8	15
L11450N 9600E	.88	78.59	43.03	110.8	91	43.6	23.8	628	5.17	34.2	3.6	3.3	29.5	5.2	.08	.73	.63	14	.03	.054	68.1	36.3	.99	36.0	.013	<1	2.48	.006	.10	<.2	1.9	.03	.02	14	.4	.13	6.6	15
L11450N 9650E	1.01	75.00	51.45	85.3	107	26.1	16.2	469	5.38	9.0	3.1	2.5	30.9	7.2	.04	.52	.70	10	.01	.054	40.0	28.6	.75	24.9	.007	2	1.90	.004	.04	.9	1.6	.04	.05	19	.5	.07	5.1	15
L11450N 9750E	1.28	67.60	52.86	87.2	122	28.4	16.5	467	5.64	8.7	2.9	1.0	31.6	6.2	.07	.58	.70	12	.01	.058	45.2	28.2	.74	20.7	.006	<1	1.81	.003	.04	.3	1.6	.04	.05	16	.5	.09	5.2	15
L11450N 9800E	.96	60.90	50.67	79.5	91	28.6	19.3	573	5.27	4.2	2.4	2.1	27.6	3.9	.05	1.26	.64	11	.01	.050	39.8	25.5	.68	21.2	.007	2	1.75	.002	.03	.3	1.5	.06	.04	15	.4	.05	4.6	15
RE L11450N 9800E	1.05	61.96	52.49	80.6	92	28.4	20.4	581	5.33	4.5	2.5	1.6	28.6	4.0	.05	1.29	.66	11	.01	.053	40.2	28.4	.69	20.7	.007	<1	1.76	.002	.03	.3	1.5	.06	.05	16	.5	.07	4.7	15
L114N 8750E	1.13	60.77	47.58	87.4	67	33.6	21.0	473	4.94	13.0	3.4	1.2	34.4	6.0	.11	.80	.51	12	.01	.054	35.6	24.1	.56	40.3	.010	<1	2.02	.003	.12	.3	1.7	.08	.04	5	.3	.05	4.3	15
L114N 8850E	.95	47.91	55.44	86.8	123	29.6	20.1	548	4.12	93.5	2.5	.9	26.9	6.2	.10	.46	.61	12	.02	.051	60.5	27.3	.69	23.0	.004	<1	1.70	.003	.04	.3	1.7	.06	.03	9	.3	.09	5.0	15
L114N 8900E	.99	62.26	49.22	87.2	153	26.1	16.8	462	4.54	296.4	3.0	5.1	26.4	6.2	.05	.60	.54	11	.01	.047	54.0	30.7	.80	22.4	.004	<1	1.86	.003	.04	.6	1.6	.04	.03	23	.5	.26	5.2	15
L114N 8950E	.99	53.07	36.37	87.8	85	26.6	13.4	454	4.77	73.7	2.2	2.8	21.1	4.3	.06	.44	.49	10	.01	.059	29.2	28.9	.73	18.6	.003	<1	1.80	.002	.03	.5	1.3	.03	.03	33	.4	.16	5.3	15
L114N 9100E	.85	63.65	49.13	88.7	72	25.4	18.9	529	5.02	126.6	3.2	2.4	30.6	8.9	.05	.50	.56	11	.01	.047	42.1	31.5	.88	37.1	.010	<1	2.20	.003	.11	.2	1.8	.04	.04	18	.4	.20	5.4	15
L114N 9150E	1.07	96.86	65.20	103.4	103	36.9	30.4	672	5.69	164.4	4.0	4.9	34.1	8.3	.08	.82	.74	13	.01	.057	55.7	34.9	.86	40.7	.009	3	2.22	.004	.04	.8	2.1	.05	.06	13	.6	.27	6.0	15
L114N 9200E	.79	78.54	52.52	118.4	105	45.0	29.8	684	5.31	282.1	3.8	2.8	29.1	10.5	.10	.60	.62	13	.04	.051	67.3	38.4	1.03	53.7	.013	<1	2.53	.004	.12	.4	2.0	.04	.07	8	.5	.35	6.6	15
L114N 9250E	.67	66.41	40.96	98.2	52	34.1	24.4	660	4.81	38.8	3.3	2.8	25.9	6.6	.04	.61	.58	12	.03	.047	59.0	33.6	1.03	40.8	.015	<1	2.49	.004	.11	<.2	1.9	.02	.03	<5	.4	.17	6.6	15
L114N 9300E	.73	65.99	36.84	97.3	61	33.4	19.9	666	4.91	25.7	3.8	2.4	25.2	4.5	.04	.74	.59	15	.02	.048	60.1	37.3	1.07	33.8	.013	<1	2.54	.004	.04	<.2	2.2	.03	.03	<5	.4	.11	6.8	15
L114N 9350E	.77	66.04	38.05	94.2	67	31.1	17.9	592	4.52	32.6	2.9	5.2	21.8	4.4	.05	.60	.54	10	.01	.042	58.1	32.6	.96	22.0	.003	<1	2.16	.003	.03	.2	1.9	.03	.02	16	.4	.14	6.0	15
L114N 9400E	.75	47.96	29.20	40.2	121	11.2	6.7	227	2.64	28.6	1.8	6.0	11.3	5.8	.05	.54	.37	10	.05	.062	15.3	10.3	.26	18.6	.011	<1	.93	.013	.03	.3	1.1	.03	.04	11	.5	.13	2.9	15
L114N 9450E	.85	74.80	39.25	100.1	57	30.8	15.7	601	5.27	28.0	3.5	3.3	27.0	4.1	.04	.92	.68	14	.01	.056	55.3	38.3	1.03	41.2	.016	3	2.61	.006	.11	.2	2.1	.02	.03	5	.4	.15	7.0	15
STANDARD DS2	14.11	127.38	31.60	157.9	280	36.3	11.4	825	3.11	59.3	18.5	205.7	3.7	26.1	10.37	9.84	10.44	72	.53	.084	15.0	164.5	.60	162.2	.091	3	1.72	.028	.16	7.6	3.0	1.77	.02	236	2.2	1.95	5.9	15

Sample type: SOIL SS&D 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	gm
L114N 9500E	1.09	118.15	52.66	115.1	82	42.6	26.5	697	5.53	39.6	4.8	2.2	32.3	4.9	.05	.89	.79	17	.02	.066	66.4	42.6	1.06	52.1	.017	<1	2.88	.006	.15	.2	2.4	.03	.03	<5	.5	.30	7.6	15
L114N 9500E-D	.99	118.15	53.18	112.1	91	41.6	25.7	672	5.37	39.6	4.7	2.7	31.6	4.5	.06	.94	.85	17	.01	.064	63.6	41.9	1.02	53.3	.020	<1	2.86	.006	.16	.2	2.3	.03	.03	5	.5	.26	7.2	15
L114N 9550E	1.03	78.19	48.51	104.9	140	41.8	23.2	633	5.07	30.1	3.8	5.9	28.1	7.5	.06	.70	.58	13	.04	.061	66.1	33.5	.89	31.2	.007	<1	2.17	.006	.04	.3	2.0	.03	.03	11	.5	.12	6.1	15
L114N 9600E	1.29	86.33	72.89	86.3	162	30.0	19.4	514	5.31	17.2	3.3	3.5	29.0	6.6	.05	.56	.77	12	.02	.072	44.8	26.8	.64	20.7	.004	<1	1.72	.004	.04	.7	1.6	.04	.04	29	.8	.16	4.8	15
L110N 10000E	2.30	45.38	63.36	50.3	112	12.3	9.7	295	3.19	58.0	1.8	12.8	25.7	5.9	.05	1.03	.84	12	.01	.039	58.4	24.0	.39	16.3	.002	1	.97	.003	.04	<2	1.6	.06	.03	13	.7	.25	4.1	15
L110N 10100E	1.11	69.92	54.70	93.4	96	33.6	26.2	544	4.75	11.6	3.1	4.2	24.6	7.4	.11	.61	.76	11	.01	.065	42.6	26.7	.65	26.7	.006	<1	1.66	.006	.03	<2	1.6	.05	.02	9	.5	.27	5.0	15
L110N 10150E	1.12	84.45	56.64	133.7	100	70.9	46.6	921	5.54	18.9	3.6	3.9	26.9	7.3	.26	.78	.80	12	.04	.078	54.3	30.4	.68	28.2	.007	<1	1.84	.004	.02	.3	1.9	.07	.03	9	.7	.30	5.0	15
L110N 10150E-D	1.10	81.29	53.74	127.7	92	66.6	45.8	879	5.32	18.4	3.5	6.3	25.3	6.6	.26	.76	.76	11	.03	.075	50.3	25.1	.62	25.6	.006	<1	1.69	.003	.02	.3	1.7	.07	.02	<5	.6	.20	4.4	15
L110N 10200E	1.08	73.15	48.36	107.6	100	47.5	33.0	616	4.82	25.7	3.1	10.0	23.7	5.9	.12	.75	.68	12	.01	.065	45.5	28.6	.64	24.1	.005	1	1.64	.003	.02	.2	1.7	.05	.01	<5	.5	.23	4.9	15
L110N 10250E	1.18	80.86	66.43	115.0	185	49.7	35.2	689	5.14	99.1	3.4	157.1	26.0	8.4	.14	.81	.80	12	.01	.072	55.3	32.6	.72	35.9	.008	1	1.95	.004	.03	.4	1.9	.06	.02	8	.6	.25	5.6	15
L110N 10300E	.91	77.05	104.98	105.8	156	40.6	23.0	535	4.99	411.5	3.4	21.3	24.5	8.5	.08	.87	.78	13	.01	.065	56.8	28.3	.66	26.7	.005	<1	1.73	.003	.02	3.7	1.7	.04	.02	12	.6	.72	5.1	15
L110N 10350E	.79	52.34	67.38	91.5	93	26.1	15.0	426	4.50	195.6	2.4	3.4	23.6	6.0	.09	.50	.62	14	.01	.049	57.0	28.8	.69	24.5	.007	<1	1.79	.003	.03	2.7	1.7	.04	.02	9	.4	.38	4.9	15
L110N 10400E	.91	42.54	35.83	74.5	104	20.6	10.2	323	3.63	73.8	1.9	5.6	15.6	4.5	.04	.36	.41	11	.01	.051	44.9	25.5	.60	21.2	.005	<1	1.53	.004	.03	3.6	1.3	.04	.02	19	.4	.09	4.8	15
L110N 10450E	.81	18.47	15.39	29.4	101	8.9	3.0	111	1.52	18.6	.8	3.4	1.0	4.8	.05	.16	.21	10	.03	.062	18.9	11.8	.18	24.3	.009	2	.88	.010	.02	1.9	.5	.02	.03	30	.4	.05	3.3	15
L110N 10500E	1.26	39.56	30.25	67.1	86	22.1	8.5	282	3.47	47.4	1.9	2.3	.4	7.7	.13	.46	.42	23	.03	.224	32.2	25.7	.40	39.4	.007	1	1.39	.004	.04	1.4	.3	.05	.09	73	.8	.10	4.9	15
L109N 8800E	.60	22.08	35.58	51.0	31	21.2	11.1	455	1.98	11.8	1.0	3.7	7.3	4.9	.11	.47	.25	13	.05	.058	33.2	15.8	.34	21.4	.009	2	.96	.003	.02	.2	.8	.03	.02	30	.4	.05	3.0	15
L109N 8800E-D	.60	21.48	33.41	50.7	23	20.8	10.0	464	2.05	10.8	1.0	.7	5.5	4.6	.09	.41	.22	12	.04	.054	31.8	16.4	.35	21.6	.010	2	1.00	.002	.02	.2	.7	.03	.02	14	.4	.06	2.8	15
L109N 8850E	.97	35.19	27.35	55.5	48	14.9	6.8	286	3.20	22.2	1.6	4.5	15.2	5.0	.05	1.05	.42	12	.04	.061	36.1	19.1	.46	14.3	.008	1	1.12	.005	.02	<2	1.1	.04	.01	14	.3	.17	3.7	15
L109N 8900E	.93	35.20	31.47	61.5	99	19.2	7.7	368	3.10	57.9	1.3	17.9	6.4	4.9	.10	.96	.56	12	.03	.061	25.5	18.2	.53	27.7	.007	<1	1.27	.005	.03	<2	1.1	.05	.03	38	.4	.23	4.2	15
L109N 8950E	1.22	17.42	20.39	40.0	35	16.6	6.1	330	2.06	24.7	.7	2.8	6.7	2.4	.06	.32	.26	10	.02	.051	15.6	19.2	.28	13.1	.007	2	.79	.003	.03	<2	.9	.03	.02	25	.5	.05	3.0	15
L109N 9000E	.52	34.34	26.30	95.8	45	37.1	16.2	785	3.96	25.9	1.6	36.7	15.1	5.5	.10	.36	.36	18	.08	.070	53.1	33.7	1.00	44.8	.020	<1	2.36	.003	.03	5.7	2.2	.03	<01	10	.1	.03	6.8	15
RE L109N 9000E	.47	33.96	25.39	93.3	40	36.3	15.7	774	3.90	24.8	1.5	16.8	14.6	5.4	.13	.35	.36	18	.08	.069	54.2	33.7	.99	44.3	.020	<1	2.16	.003	.03	5.6	2.1	.03	<01	8	.2	.11	6.4	15
L109N 9050E	1.37	23.67	22.49	52.6	56	17.1	6.1	319	3.45	17.8	.9	1.8	.6	5.5	.10	.67	.50	29	.02	.116	21.0	23.1	.30	30.1	.008	1	1.07	.004	.03	.3	.5	.05	.08	59	.7	.09	6.3	15
L109N 9100E	.73	63.32	46.74	115.7	67	47.1	23.9	790	4.73	20.8	2.8	1.6	20.9	5.6	.06	.40	.58	16	.05	.062	56.6	39.4	1.12	27.9	.009	<1	2.59	.003	.05	<2	2.6	.05	.01	<5	.3	.09	7.4	15
L109N 9250E	.73	43.98	21.43	84.2	49	18.1	7.2	542	4.73	18.8	1.7	3.2	15.0	2.5	.05	.76	.58	14	.02	.053	22.1	39.8	1.04	18.5	.007	<1	2.31	.003	.02	<2	2.0	.02	.02	6	.4	.10	7.5	15
L109N 9300E	.89	37.13	25.15	77.5	62	21.3	7.4	592	4.63	20.2	1.8	1.7	9.5	3.0	.04	.59	.55	15	.01	.094	18.4	35.6	.84	23.3	.006	<1	2.17	.005	.03	.2	1.6	.03	.03	19	.5	.12	7.5	15
L109N 9350E	.66	43.18	28.19	86.7	48	19.7	7.5	574	4.95	20.4	1.8	1.8	12.6	2.8	.03	.76	.61	13	.01	.056	27.3	40.9	1.01	23.6	.005	<1	2.41	.005	.03	<2	2.1	.03	.02	<5	.4	.12	7.8	15
L109N 9400E	.95	44.82	42.56	90.7	59	28.6	7.9	605	5.19	42.8	3.3	1.5	16.8	2.8	.06	.85	.66	13	.02	.088	19.6	43.3	1.09	22.5	.004	<1	2.49	.003	.02	<2	2.0	.02	.03	32	.6	.15	8.2	15
L109N 9450E	1.04	38.50	38.30	90.8	60	24.4	8.1	625	5.30	32.5	3.0	4.5	13.0	4.6	.08	.75	.78	19	.02	.103	32.8	45.8	1.05	28.4	.007	<1	2.49	.005	.04	<2	1.8	.03	.03	16	.4	.11	8.9	15
L109N 9500E	.87	35.24	32.62	94.7	49	20.8	6.9	650	5.23	21.9	2.3	3.4	21.0	4.2	.04	.70	.65	17	.01	.068	62.4	43.4	1.14	27.5	.006	<1	2.69	.005	.03	<2	2.1	.02	.02	<5	.3	.10	8.4	15
L109N 9550E	1.37	103.74	70.93	124.1	94	39.6	19.9	709	5.75	12.5	3.1	4.9	27.1	4.8	.06	1.39	1.13	17	.01	.062	59.2	41.1	.97	38.0	.012	<1	2.59	.005	.10	<2	2.4	.04	.02	6	.7	.31	7.4	15
L109N 9600E	.73	67.58	36.65	94.0	72	32.8	10.0	446	4.52	20.6	3.1	2.7	20.6	5.8	.04	.65	.51	15	.05	.078	56.1	32.4	.87	24.5	.007	<1	2.22	.008	.03	<2	1.9	.03	.02	7	.4	.06	6.8	15
L109N 9650E	.91	47.37	45.14	114.5	50	49.2	18.8	808	4.57	17.1	2.0	.6	9.4	6.7	.13	.46	.49	22	.05	.105	55.5	39.6	.80	35.4	.009	<1	2.27	.004	.04	.2	1.3	.04	.04	37	.6	.08	7.3	15
STANDARD DS2	14.51	129.78	32.14	159.8	282	36.3	12.0	835	3.13	61.0	18.9	198.0	3.7	28.5	10.42	10.03	10.79	73	.53	.090	16.2	167.6	.61	161.8	.092	3	1.75	.029	.16	7.7	3.1	1.83	.02	244	2.0	1.84	6.2	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
L109N 9700E	.79	28.69	24.58	51.5	55	18.9	9.7	392	2.49	11.2	1.4	2.8	5.6	7.5	.03	.45	.31	18	.07	.086	32.4	17.4	.40	26.4	.014	<1	1.26	.011	.04	.2	1.0	.05	.03	26	.5	.07	5.1	15
L109N 9800E	1.08	108.43	54.20	118.8	99	57.0	23.8	587	4.56	150.3	3.5	4.7	19.4	10.4	.09	.76	.67	20	.09	.108	73.5	32.1	.90	29.2	.011	<1	2.26	.003	.03	.2	1.7	.05	.03	32	.5	.15	7.0	15
L109N 9800E-B	.26	15.16	2.57	28.5	20	9.1	5.9	243	1.62	1.7	.3	1.0	1.7	32.9	.05	.32	.03	51	.31	.052	5.3	12.5	.34	62.6	.067	<1	.89	.025	.07	<2	1.8	.03	<.01	13	<.1	.02	2.9	15
L109N 9800E-D	1.03	97.08	49.97	110.0	107	52.6	22.8	572	4.35	126.0	3.2	108.6	19.9	10.4	.10	.70	.61	20	.10	.105	78.0	30.0	.87	27.9	.012	<1	2.14	.002	.03	.2	1.7	.04	.02	26	.5	.14	6.7	15
L109N 9850E	.89	35.87	30.69	83.6	42	35.7	13.2	404	3.61	14.1	1.6	3.8	11.6	7.2	.08	.51	.34	17	.05	.079	50.7	22.3	.61	27.1	.009	<1	1.59	.004	.03	<2	1.2	.04	.03	20	.5	.10	5.5	15
L109N 9900E	1.55	65.77	45.40	89.2	68	30.6	21.3	504	4.43	13.0	3.2	7.1	21.9	5.3	.07	.98	.75	13	.01	.068	27.9	24.4	.61	23.7	.008	<1	1.42	.002	.02	.2	1.3	.03	.02	21	.6	.25	4.6	15
L109N 9950E	1.65	48.91	40.15	77.1	122	25.6	15.9	533	3.55	16.5	2.3	10.6	14.5	8.2	.10	.90	.59	13	.03	.080	34.2	18.4	.48	27.0	.009	1	1.21	.007	.03	.2	1.2	.05	.04	49	.7	.17	4.5	15
L109N 10000E	3.29	78.35	49.86	115.6	206	39.0	26.1	512	4.89	61.1	5.3	40.2	32.4	9.3	.06	1.21	1.16	13	.01	.077	52.1	26.9	.66	23.0	.008	<1	1.71	.004	.03	.2	1.9	.06	.04	27	.7	.39	5.4	15
L109N 10150E	1.10	53.72	43.04	88.0	166	30.2	11.0	366	4.55	1782.8	3.3	141.6	19.6	7.8	.12	1.20	.54	11	.02	.060	56.0	23.4	.56	44.4	.004	<1	1.47	.002	.02	2.9	1.5	.05	.02	25	.5	.41	4.7	15
L109N 10200E	1.00	132.13	71.64	96.1	130	27.6	12.3	362	6.90	759.3	5.8	18.1	41.6	14.5	.05	.76	1.00	17	.01	.106	66.7	26.3	.55	28.3	.007	<1	1.80	.004	.02	2.4	1.9	.04	.05	18	.8	.30	5.4	15
L109N 10250E	1.00	103.05	70.01	93.0	111	27.1	14.7	356	5.34	436.4	4.5	14.9	41.8	10.1	.05	.74	.71	16	.01	.084	65.3	26.1	.62	20.4	.005	<1	1.80	.003	.02	3.5	1.7	.04	.03	6	.7	.29	5.4	15
L109N 10300E	.94	57.77	50.21	93.3	117	42.1	24.8	539	3.84	245.2	3.4	23.8	21.3	6.0	.05	1.42	.50	13	.01	.072	44.8	18.2	.39	21.1	.007	<1	1.35	.004	.03	2.8	1.4	.08	.03	20	.6	.16	4.4	15
L109N 10350E	1.01	59.25	57.15	105.6	136	50.7	32.3	448	4.14	192.5	3.7	11.1	29.8	4.8	.07	1.46	.47	12	.01	.064	47.0	18.0	.37	17.3	.005	<1	1.23	.003	.02	2.3	1.4	.07	.02	14	.5	.16	4.0	15
L109N 10400E	.86	42.07	30.31	63.0	96	18.8	10.9	291	3.12	104.3	2.1	4.2	15.6	5.9	.04	.58	.36	11	.03	.066	36.0	16.5	.42	19.2	.011	<1	1.19	.007	.03	1.3	1.2	.05	.02	19	.5	.10	4.0	15
L109N 10450E	.88	54.48	37.22	88.0	115	30.8	17.0	404	4.00	147.4	2.7	29.2	22.5	5.1	.07	.61	.41	13	.01	.058	50.4	21.8	.58	18.6	.007	<1	1.49	.003	.02	1.0	1.3	.04	.02	23	.5	.12	4.7	15
L109N 10500E	.99	31.22	23.39	62.9	62	18.5	10.7	370	2.82	40.3	1.5	4.4	7.6	8.1	.07	.56	.35	19	.06	.070	29.2	17.4	.47	27.6	.024	1	1.27	.009	.04	1.1	1.2	.06	.03	20	.6	.07	4.5	15
L108N 8800E	.80	90.31	52.25	134.6	111	61.5	28.4	763	4.63	33.5	4.9	2.7	29.7	6.4	.08	.48	.74	15	.10	.062	76.3	35.2	1.20	26.2	.004	<1	2.67	.005	.03	<2	2.5	.03	.02	18	.3	.13	8.3	15
L108N 8850E	.57	67.40	46.18	110.3	105	47.7	24.1	640	4.06	22.3	4.0	2.1	20.4	5.5	.07	.36	.61	12	.11	.066	72.3	31.8	1.04	20.0	.002	<1	2.36	.005	.02	<2	2.2	.03	.02	12	.3	.10	7.4	15
L108N 8900E	.63	75.66	56.86	129.1	133	52.6	31.9	938	4.59	23.7	5.3	1.4	28.0	6.6	.06	.42	.62	14	.16	.073	66.8	38.1	1.13	20.1	.005	<1	2.47	.004	.02	<2	2.6	.03	.01	8	.2	.10	7.6	15
L108N 8950E	.56	53.19	33.57	112.0	58	52.3	27.2	1213	4.53	25.8	2.2	2.3	12.5	5.8	.09	1.01	.62	15	.10	.105	52.9	30.2	1.07	23.1	.006	<1	2.32	.003	.02	<2	2.0	.02	.04	32	.4	.11	8.1	15
L108N 9000E	1.30	140.03	91.05	153.2	113	54.8	39.6	860	4.60	31.0	4.5	3.0	19.8	4.8	.12	.55	.80	17	.11	.085	85.8	35.3	1.05	16.7	.007	<1	2.35	.002	.02	<2	2.1	.03	.02	22	.5	.14	7.0	15
RE L108N 9000E	1.27	142.19	92.88	154.9	108	54.9	39.2	870	4.65	31.4	4.6	2.5	20.5	4.8	.12	.55	.81	17	.11	.085	83.1	37.3	1.06	16.9	.007	<1	2.36	.002	.02	<2	2.1	.03	.02	17	.5	.13	7.1	15
L108N 9300E-A	.80	31.29	19.93	83.4	71	26.6	8.2	539	3.82	20.2	2.7	5.7	10.1	5.6	.05	.54	.44	18	.06	.078	39.1	30.1	.89	21.2	.011	<1	1.99	.006	.03	<2	1.7	.04	.02	14	.4	.09	7.0	15
L108N 9300E-B	.27	16.04	2.47	28.6	19	9.3	6.1	247	1.63	1.4	.3	1.2	1.5	33.5	.06	.28	.04	50	.32	.052	5.7	12.9	.34	63.4	.072	1	.92	.025	.08	<2	1.8	.03	.01	16	<.1	.02	3.0	15
L108N 9300E-D	.84	32.75	21.60	84.5	76	27.0	8.5	554	3.94	21.6	3.0	2.7	10.2	5.8	.04	.55	.47	17	.06	.089	42.1	31.5	.90	21.8	.010	<1	2.02	.006	.03	<2	1.7	.04	.02	18	.5	.09	7.5	15
L108N 9350E	.76	21.70	18.69	65.8	65	21.2	6.9	479	3.29	15.3	1.6	2.0	8.9	5.8	.04	.47	.40	15	.06	.077	32.3	25.9	.71	19.3	.012	<1	1.65	.009	.03	<2	1.4	.04	.03	17	.4	.08	6.4	15
L108N 9400E	.73	25.61	21.52	76.9	41	25.0	7.6	522	3.99	25.9	1.8	2.4	11.4	5.5	.04	.54	.52	15	.04	.074	33.9	29.4	.87	33.5	.007	<1	1.95	.006	.02	<2	1.5	.03	.02	15	.4	.12	7.9	15
L108N 9450E	.73	32.38	26.86	97.6	54	32.4	10.7	582	4.59	23.1	2.5	2.4	13.9	4.1	.03	.50	.54	16	.03	.068	37.3	37.1	1.16	25.8	.007	<1	2.56	.004	.02	<2	1.9	.03	.02	15	.4	.11	8.7	15
L108N 9500E	.86	45.76	35.22	92.8	72	26.1	8.0	560	4.67	26.7	3.3	3.1	16.1	5.1	.03	.84	.66	13	.02	.064	35.3	36.5	1.11	28.0	.005	<1	2.47	.004	.02	<2	1.9	.03	.02	18	.4	.14	8.5	15
L108N 9550E	.93	46.43	32.52	82.8	68	19.0	7.4	553	4.46	13.2	2.0	3.1	19.9	4.4	.03	.98	.68	13	.01	.058	62.2	31.3	.93	16.0	.004	<1	2.08	.003	.02	<2	1.6	.02	.02	23	.4	.17	6.9	15
L108N 9600E	.60	21.94	17.25	49.2	39	13.1	4.4	282	2.53	8.7	1.2	1.9	5.7	5.2	.02	.38	.31	11	.04	.063	30.6	19.2	.50	21.0	.009	1	1.40	.012	.02	<2	1.0	.03	.01	15	.3	.06	5.1	15
L108N 9650E	.62	30.71	23.65	49.7	103	19.3	7.2	256	2.44	6.8	1.5	1.9	2.5	5.1	.06	.28	.30	14	.04	.091	51.4	19.7	.43	32.8	.008	1	1.38	.010	.03	.2	.6	.04	.04	31	.6	.06	5.2	15
L108N 9700E	.48	13.95	10.09	22.9	33	7.2	3.8	184	1.36	4.0	.6	1.5	.7	4.2	.04	.25	.15	12	.04	.066	13.5	6.6	.15	16.4	.009	1	.82	.010	.02	<2	.3	.03	.05	39	.4	.03	3.3	15
STANDARD DS2	13.79	126.46	31.73	155.8	240	35.5	11.5	787	2.95	55.9	18.1	192.2	3.6	30.1	10.57	9.06	10.60	73	.53	.085	16.3	158.5	.58	151.7	.098	2	1.71	.031	.16	6.6	3.0	1.77	.03	243	2.1	1.83	6.2	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Retuns and 'RRE' are Reject Retuns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Sample	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
L108N 9800E	.63	38.87	28.39	78.5	100	28.8	11.2	454	3.48	17.4	2.5	2.7	15.5	8.2	.09	.51	.34	16	.08	.080	56.4	25.3	.69	47.4	.015	1	1.76	.006	.04	.2	1.5	.05	<.01	24	.3	.06	5.1	15	
L108N 9850E	.88	24.05	29.49	52.1	44	17.6	8.2	451	2.76	10.4	1.2	1.5	3.6	5.9	.05	.41	.35	22	.05	.092	23.1	19.2	.40	31.8	.021	1	1.20	.008	.03	.2	.8	.06	.01	28	.3	.07	5.1	15	
L108N 9900E	1.26	47.91	32.96	78.4	87	23.6	11.3	442	4.16	6.9	2.5	5.7	15.7	4.6	.09	.81	.55	13	.02	.068	20.7	20.6	.56	31.4	.014	1	1.34	.005	.03	<.2	1.3	.04	<.01	29	.6	.15	4.3	15	
L108N 9950E	.72	51.83	17.85	77.9	109	29.4	13.3	486	3.84	72.9	2.8	622.3	14.5	6.8	.06	.31	.36	14	.06	.077	44.7	24.8	.69	23.8	.012	<1	1.58	.007	.03	1.2	1.4	.03	<.01	31	.4	.11	4.9	15	
L108N 10000E	.75	60.49	44.18	115.3	100	50.3	22.3	736	5.03	585.1	3.2	168.3	17.9	9.8	.09	.45	.51	18	.08	.096	94.3	36.4	.98	41.8	.009	<1	2.29	.003	.02	2.3	1.6	.03	<.01	21	.5	.35	7.0	15	
L108N 10050E	.76	56.18	40.54	95.7	145	29.8	8.5	543	4.99	885.6	3.4	227.7	20.3	8.7	.09	.52	.49	15	.04	.086	62.9	33.6	.91	36.8	.008	1	2.13	.003	.03	2.9	1.6	.03	.02	10	.5	.27	6.2	15	
L108N 10100E	.94	75.84	32.97	93.8	145	29.0	11.7	536	4.81	1107.1	3.8	31.9	20.8	10.6	.13	.78	.55	21	.07	.103	56.7	32.1	.87	56.5	.023	1	2.16	.004	.04	.6	2.2	.04	.01	22	.5	.22	6.3	15	
L108N 10150E	.89	32.70	34.11	54.8	204	15.7	4.6	262	2.91	494.8	1.8	23.0	6.8	5.7	.06	.52	.37	11	.03	.068	30.4	18.4	.46	38.9	.010	1	1.45	.010	.04	.8	1.1	.06	.01	52	.4	.15	4.4	15	
L108N 10200E	.91	47.84	32.54	92.9	80	26.3	10.6	484	4.20	417.2	2.5	79.0	14.9	7.0	.11	.64	.46	20	.04	.061	54.4	29.6	.77	43.4	.021	1	1.74	.003	.03	1.4	1.7	.04	.03	26	.5	.15	5.2	15	
L108N 10250E-A	1.00	79.33	45.88	78.9	117	18.5	7.8	373	5.27	361.8	3.8	10.3	23.6	6.7	.08	.86	.63	17	.02	.081	47.2	30.9	.67	27.0	.010	<1	1.63	.004	.03	.8	1.8	.05	.01	41	.7	.18	5.5	15	
L108N 10250E-B	1.09	82.35	47.62	82.3	117	19.5	8.4	389	5.52	384.2	3.8	12.0	23.6	7.2	.08	.91	.64	17	.02	.088	49.7	32.8	.70	27.9	.011	1	1.70	.004	.03	.9	1.8	.05	.03	42	.8	.17	5.4	15	
L108N 10300E	.94	59.40	53.89	91.2	121	27.5	11.7	382	4.74	119.8	3.6	4.5	23.1	6.4	.05	.88	.54	15	.01	.073	65.7	27.7	.68	26.9	.008	<1	1.83	.003	.03	25.3	1.7	.07	.02	<5	.6	.20	5.4	15	
L108N 10350E	1.01	69.49	45.45	95.3	141	27.4	16.5	411	5.02	225.3	4.0	8.1	25.4	5.3	.05	1.46	.56	15	.01	.075	62.5	29.5	.66	29.9	.009	1	1.81	.004	.03	.6	1.9	.07	.02	40	.5	.13	5.2	15	
L108N 10450E	.54	18.29	12.98	31.3	92	8.4	5.1	245	1.81	18.7	.9	5.2	1.2	5.2	.05	.29	.18	12	.06	.065	16.1	11.9	.21	25.3	.014	1	.83	.012	.03	.4	.6	.03	.02	38	.3	.04	2.7	15	
L108N 10500E	1.34	32.70	26.41	79.8	69	25.8	9.6	401	3.96	28.9	1.7	2.4	15.3	4.5	.05	.33	.31	11	.02	.050	38.7	35.1	.77	20.9	.005	<1	1.73	.004	.04	.2	1.2	.03	.04	41	.4	.06	5.2	15	
L107N 8800E	.63	61.00	40.74	128.7	96	59.3	27.2	1036	4.93	54.2	2.2	2.2	23.0	8.1	.11	.67	.56	12	.20	.072	40.1	34.5	1.18	31.2	.017	1	2.60	.003	.02	<.2	2.5	.03	.02	15	.2	.09	7.0	15	
L107N 8850E	.66	52.19	40.75	71.1	76	37.6	26.8	1115	2.81	20.0	1.9	2.5	14.3	13.3	.08	.97	.50	7	.17	.062	32.3	11.9	.42	43.7	.010	<1	1.16	.009	.02	<.2	1.5	.05	.03	13	.2	.08	2.8	15	
L107N 8900E	1.60	51.53	40.33	98.8	79	55.8	23.9	1240	4.27	20.6	3.3	3.5	15.0	25.1	.10	2.54	.60	4	1.76	.050	24.1	8.7	.27	23.6	.004	<1	.78	.002	.03	<.2	2.0	.09	.05	17	.5	.11	1.7	15	
L107N 9000E	.81	109.97	73.51	141.5	92	83.0	51.1	2694	5.14	50.7	2.3	2.7	16.3	10.9	.14	.91	1.34	13	.25	.079	73.6	28.2	1.19	39.4	.009	<1	2.47	.002	.02	<.2	3.3	.03	.01	14	.3	.19	6.6	15	
L107N 9050E	.71	48.17	44.96	97.7	47	36.8	13.3	686	4.51	21.4	3.2	2.9	15.5	5.1	.04	.45	.79	16	.04	.071	55.3	33.1	1.08	41.7	.024	1	2.47	.005	.11	<.2	2.1	.04	.03	21	.3	.21	6.6	15	
L107N 9100E	.81	122.71	79.88	148.5	120	56.7	43.9	1089	5.05	27.3	4.1	1.9	24.5	3.0	.09	.35	.77	16	.11	.072	56.1	44.1	1.34	25.6	.017	1	2.88	.004	.02	<.2	2.9	.03	.01	11	.2	.14	8.5	15	
L107N 9150E	.61	72.02	47.09	117.7	97	45.8	19.9	869	4.51	18.7	3.1	1.1	14.6	4.2	.06	.42	.56	18	.08	.073	55.4	38.5	1.11	26.0	.012	1	2.62	.004	.03	<.2	2.4	.04	.02	21	.2	.11	8.0	15	
L107N 9200E	.54	70.93	45.79	109.0	115	43.5	20.6	701	4.08	18.0	3.3	2.0	19.1	5.3	.07	.42	.53	19	.09	.066	59.7	35.1	.97	39.1	.023	<1	2.36	.006	.04	<.2	2.7	.03	.02	10	.2	.09	6.7	15	
RE L107N 9200E	.53	71.26	47.22	108.0	117	42.7	21.4	697	4.07	18.5	3.3	2.0	19.9	5.4	.07	.42	.55	19	.09	.067	58.8	32.6	.97	37.4	.021	<1	2.34	.006	.04	<.2	2.6	.03	.03	14	.2	.10	6.9	15	
L107N 9250E	.52	24.62	23.20	41.9	51	17.9	9.5	547	2.14	20.6	1.7	6.7	2.1	3.9	.07	.35	.28	13	.03	.075	23.4	14.4	.27	27.9	.006	<1	1.00	.007	.02	<.2	.7	.03	.08	21	.2	.06	3.7	15	
L107N 9300E	.48	37.50	22.53	73.6	59	27.8	13.1	507	3.21	13.3	2.4	1.8	6.2	5.2	.04	.32	.44	14	.06	.080	29.6	24.9	.69	55.2	.005	<1	1.81	.008	.02	<.2	1.3	.05	.06	17	.3	.08	6.1	15	
L107N 9350E	.75	44.76	33.27	95.8	66	33.0	14.2	809	4.52	23.4	3.0	71.3	13.4	5.5	.08	.79	.64	17	.06	.067	51.5	35.5	1.01	52.3	.013	<1	2.48	.006	.03	<.2	2.1	.05	.05	17	.3	.12	7.4	15	
L107N 9400E	.66	34.61	28.15	79.4	73	24.0	7.1	477	4.08	17.7	2.3	2.1	15.5	6.4	.04	.69	.53	18	.05	.067	45.6	32.4	.90	40.2	.017	<1	2.15	.008	.03	<.2	1.9	.04	.02	13	.3	.11	6.9	15	
L107N 9450E	.55	28.96	13.62	47.3	98	15.9	4.6	305	2.41	10.6	1.6	2.7	5.6	4.7	.04	.31	.30	14	.05	.056	15.2	18.1	.51	23.5	.013	<1	1.29	.010	.03	<.2	1.2	.03	.04	38	.3	.04	4.1	15	
L107N 9500E	.68	18.24	16.71	70.0	34	19.6	5.5	514	4.24	15.4	1.3	3.2	4.9	3.7	.05	.48	.51	17	.02	.077	21.0	32.6	.82	30.0	.009	<1	1.92	.005	.02	<.2	1.3	.03	.07	19	.3	.07	7.5	15	
L106N 8900E	.68	31.51	35.93	61.1	91	28.7	15.0	792	2.51	14.2	2.0	2.8	14.0	26.2	.07	.83	.27	7	1.48	.050	27.8	13.3	.35	19.3	.004	<1	.84	.002	.02	<.2	1.7	.03	.07	21	.2	.03	2.4	15	
L106N 8950E	1.03	50.11	42.05	90.0	105	48.7	19.6	1843	3.98	19.0	2.5	4.7	6.2	20.1	.10	1.36	.54	6	.90	.063	28.3	11.4	.41	27.1	.001	<1	.92	.002	.02	<.2	2.2	.03	.11	28	.3	.08	2.4	15	
L106N 9000E	.73	91.17	65.00	120.9	105	56.3	32.4	2260	4.71	48.0	1.8	3.8	11.7	12.9	.14	.57	.96	11	.50	.084	61.9	22.9	.99	41.6	.004	1	2.16	.004	.02	<.2	3.7	.02	.06	28	.3	.15	5.9	15	
STANDARD DS2	14.32	125.26	32.06	156.1	265	35.4	10.9	819	3.06	58.8	21.4	209.5	3.5	24.5	10	38	9.82	10.50	69	.50	.090	14.7	151.8	.59	173.8	.090	2	1.64	.027	.15	7.8	2.8	1.85	.03	246	2.2	1.87	5.8	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Hf	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Sample
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	gm
L106N 9050E	.62	45.41	31.51	88.9	82	35.9	13.4	603	4.09	18.4	2.4	1.4	14.5	8.2	.05	.39	.52	14	.08	.062	37.7	30.0	1.02	26.1	.009	<1	2.10	.006	.03	<2	2.2	.04	.03	19	.3	.08	6.8	15
L106N 9100E	.49	81.47	49.40	138.5	94	56.6	29.8	1032	5.09	18.1	3.1	1.6	19.6	4.0	.08	.39	.54	18	.11	.067	66.8	46.7	1.36	24.8	.007	<1	2.92	.003	.02	<2	3.1	.03	.05	7	.2	.07	8.9	15
L106N 9150E	.92	67.94	51.44	113.5	64	48.9	16.5	587	4.58	25.4	2.7	2.2	17.3	4.8	.05	.73	.56	17	.06	.073	64.3	38.9	1.12	14.9	.006	<1	2.42	.003	.02	<2	2.2	.04	.05	10	.3	.09	7.6	15
L106N 9200E	1.10	93.43	60.00	123.2	142	53.3	29.6	899	4.25	21.4	3.3	2.4	15.4	6.5	.08	.56	.57	18	.09	.071	61.0	38.1	1.08	21.2	.009	<1	2.40	.005	.04	<2	2.5	.06	.03	37	.4	.10	7.5	15
L106N 9250E	.56	58.16	39.88	119.5	98	48.6	23.2	857	4.69	16.0	3.1	2.1	18.1	3.7	.06	.34	.46	15	.09	.061	62.7	37.3	1.10	18.7	.007	<1	2.47	.003	.02	<2	2.8	.03	.02	<5	.2	.09	7.5	15
L106N 9300E	.48	39.49	31.16	80.0	46	32.3	15.7	762	3.23	14.4	1.6	2.9	11.2	5.5	.08	.36	.33	14	.08	.066	39.9	24.3	.75	28.0	.010	<1	1.71	.005	.03	<2	1.8	.03	.05	10	.3	.07	5.2	15
L106N 9350E	.62	23.22	19.04	59.6	43	19.1	9.0	582	3.18	11.7	1.6	.5	2.2	4.9	.06	.34	.36	17	.04	.092	25.5	25.9	.55	32.0	.009	<1	1.51	.006	.03	<2	.8	.04	.04	21	.3	.12	5.8	15
L105N 9000E	.73	41.93	38.26	81.6	64	30.8	18.0	1220	3.21	20.5	2.3	2.4	6.5	6.6	.11	.54	.53	15	.07	.071	30.6	19.8	.60	37.1	.010	<1	1.52	.007	.04	<2	1.8	.06	.03	45	.3	.08	4.5	15
L105N 9050E	.54	52.31	37.27	103.6	55	45.7	22.2	1333	4.56	32.0	1.6	2.7	9.0	6.9	.10	.48	.69	15	.17	.083	52.5	29.2	1.06	34.4	.006	<1	2.34	.003	.02	<2	2.3	.02	.02	15	.3	.10	7.2	15
L105N 9100E	.57	71.28	43.91	134.9	110	55.2	29.4	836	5.04	22.8	4.1	3.8	19.2	5.2	.08	.40	.55	16	.12	.063	66.2	42.0	1.35	24.2	.006	<1	2.88	.003	.03	<2	2.8	.03	.02	<5	.1	.08	8.7	15
L105N 9150E	.78	23.18	22.10	49.0	43	17.6	9.1	585	2.28	9.7	1.0	1.0	4.7	7.1	.06	.39	.30	20	.07	.075	21.6	16.7	.42	30.7	.021	<1	1.19	.009	.04	.2	1.3	.06	.03	34	.4	.03	4.1	15
L105N 9200E	.52	52.66	38.09	104.4	39	44.3	22.4	741	4.21	18.4	2.2	4.9	14.2	3.5	.07	.41	.44	14	.06	.062	58.7	34.8	.99	18.5	.005	<1	2.27	.002	.01	<2	2.0	.03	.02	12	.2	.07	6.8	15
L105N 9300E	.80	51.89	42.52	84.2	64	34.7	21.3	834	2.99	15.1	1.8	2.3	8.4	7.9	.10	.49	.41	20	.09	.075	35.6	26.9	.65	38.7	.021	<1	1.58	.007	.04	.2	1.7	.06	.01	22	.3	.10	5.1	15
L105N 9350E	.72	53.74	45.67	102.8	93	48.2	19.9	875	3.81	29.7	3.6	6.3	9.6	5.3	.09	.60	.76	16	.06	.080	41.4	28.6	.71	49.6	.003	<1	1.85	.005	.03	<2	1.6	.06	.05	25	.3	.14	6.2	15
L105N 9400E	.80	24.56	11.12	94.1	40	35.9	10.4	511	3.68	55.4	1.3	2.2	8.8	5.2	.07	.33	.36	12	.09	.054	39.9	32.8	1.00	34.9	.005	<1	1.98	.005	.02	<2	1.8	.03	.02	10	.2	.08	6.6	15
RE L105N 9400E	.81	24.84	10.60	94.9	36	36.4	10.6	507	3.64	55.8	1.3	1.9	8.7	5.1	.07	.31	.35	13	.09	.056	40.1	31.9	1.00	34.7	.005	<1	1.97	.005	.02	<2	1.7	.03	.03	9	.1	.07	6.6	15
BL 9800E 12250N	1.24	29.67	25.93	61.2	66	16.0	9.2	409	3.22	10.1	1.5	2.1	10.3	7.3	.06	.28	.36	14	.03	.062	37.8	20.0	.50	29.7	.012	<1	1.32	.005	.03	.3	1.0	.04	.03	37	.5	.05	4.0	15
BL 9800E 12200N	1.00	19.38	21.01	44.1	135	9.7	4.4	213	2.87	23.2	1.0	2.5	2.1	5.6	.06	.26	.32	13	.02	.057	31.8	15.9	.37	26.4	.009	1	1.08	.007	.03	.4	.5	.03	.03	21	.3	.05	4.3	15
BL 9800E 12150N	1.00	23.19	20.53	44.5	85	10.4	5.4	275	2.47	17.8	1.5	1.9	7.0	4.9	.04	.21	.29	12	.03	.067	27.6	14.3	.37	23.6	.010	<1	1.15	.006	.03	.3	.9	.04	.03	36	.5	.04	3.4	15
BL 9800E 12050N	.92	21.95	19.98	40.1	184	7.6	3.1	165	2.70	11.8	1.2	.7	4.0	4.5	.03	.19	.30	11	.01	.049	24.7	14.4	.38	19.3	.007	<1	1.06	.005	.02	.6	.5	.03	.07	18	.4	.04	3.7	15
BL 9800E 12000N	1.04	20.97	23.82	38.3	177	8.6	3.1	153	2.27	3.7	1.2	.4	4.5	6.3	.05	.13	.31	9	.03	.049	29.5	16.4	.39	28.7	.007	<1	1.11	.006	.02	.3	.6	.03	.04	25	.3	.03	3.5	15
BL 9800E 11950N	1.28	33.77	35.42	57.3	101	9.1	4.2	230	3.67	7.4	1.8	1.6	13.7	6.3	.04	.24	.45	13	.01	.051	39.8	22.0	.59	23.6	.004	<1	1.37	.003	.03	.5	.8	.04	.07	15	.4	.04	4.4	15
BL 9800E 11850N	1.09	33.14	33.59	62.7	90	13.4	6.5	281	4.34	3.1	1.7	2.4	14.5	4.9	.03	.21	.47	14	.01	.053	26.8	23.0	.63	25.0	.004	<1	1.49	.002	.03	.6	1.0	.04	.01	15	.4	.03	4.6	15
BL 9800E 11800N	1.10	26.49	30.47	50.0	133	7.6	3.1	208	3.45	3.0	1.5	1.2	9.8	5.9	.03	.17	.43	14	.02	.055	22.8	20.1	.55	32.6	.005	<1	1.55	.005	.03	.7	.8	.06	.04	24	.5	.02	4.8	15
BL 9800E 11750N	.90	48.93	33.25	88.9	137	24.6	13.8	474	4.68	14.2	2.6	1.5	21.5	8.0	.04	.38	.52	11	.03	.045	51.7	31.7	.97	21.9	.005	<1	2.12	.003	.03	<2	1.5	.02	.08	6	.3	.08	6.0	15
BL 9800E 11650N	1.04	58.29	44.42	87.7	97	31.4	20.3	641	5.75	5.1	2.3	2.8	30.3	3.9	.03	.64	.60	11	.01	.049	40.8	30.3	.80	24.0	.007	<1	1.92	.003	.04	.3	1.5	.05	.07	6	.4	.07	5.5	15
BL 9800E 11600N	.95	59.85	44.75	89.6	111	30.4	19.2	589	5.88	5.4	2.3	3.7	31.7	4.1	.03	.71	.61	12	.01	.048	42.9	29.4	.80	21.1	.006	<1	1.90	.002	.04	.3	1.5	.05	.06	6	.4	.08	5.5	15
BL 9800E 11550N	1.06	59.54	46.54	87.8	102	30.7	19.0	589	5.81	5.6	2.3	3.8	32.4	4.1	.03	.71	.62	12	.01	.047	38.9	29.3	.76	23.9	.007	<1	1.85	.003	.03	.3	1.6	.05	.09	9	.4	.08	5.4	15
BL 10000E 10950N	2.11	61.64	47.72	81.8	66	25.8	15.7	436	4.17	17.8	2.8	19.5	19.4	7.9	.08	.90	.71	14	.01	.064	41.9	23.1	.51	28.1	.009	<1	1.26	.004	.04	<2	1.4	.04	.04	22	.8	.22	4.4	15
BL 10000E 10850N	.68	38.26	29.17	91.7	164	37.7	15.7	671	3.81	619.9	3.1	1063.7	15.0	7.2	.11	.42	.36	16	.07	.075	55.3	26.2	.67	56.6	.011	<1	1.61	.004	.02	4.5	1.5	.03	.02	29	.4	.44	5.2	15
BL 10000E 10750N	.60	47.40	36.16	93.2	97	39.8	11.3	431	4.11	260.4	2.4	79.4	12.6	7.2	.05	.25	.46	17	.06	.070	70.9	31.5	.84	26.0	.006	<1	1.94	.003	.02	2.2	1.4	.02	.03	8	.3	.24	6.2	15
STANDARD DS2	14.20	128.48	34.35	154.5	261	35.7	11.9	826	3.08	58.3	21.4	206.8	3.5	27.2	10.26	9.70	11.15	73	.50	.085	15.2	155.5	.59	176.8	.090	1	1.65	.027	.15	7.9	3.1	1.89	.03	235	2.3	1.85	5.9	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Statistics - Percentile Rank

1997 - 2000 Soil Samples

Units	ppb Au	ppm Ag	% Al	ppm As	ppm B	ppm Ba	ppm Bi	% Ca	ppm Cd	ppm Co	ppm Cr	% Cu	ppm Fe	ppm Ga	ppb Hg	% K	ppm La	% Mg	ppm Mn	ppm Mo	% Na	ppm Ni	% P	ppm Pb	% S	ppm Sb	ppm Se	ppm Sr	% Ti	ppm Te	ppm Tl	ppm U	ppm V	ppm W	ppm Zn	ppm Th	
Population	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804
Max Value	1259	1.643	3.24	1542.5	10	173	2.1	2.02	0.71	73	46.7	148.48	15.91	18.2	96	0.155	592	1.87	10305	3.7	0.08	106	0.317	151.4	0.16	4.35	3.7	1.7	174	0.04	1	4.8	14	44	25.3	327.2	72.8
Min Value	0	0	0.11	0	0	0	0	0	0	0	0	0	0.11	0	0	0.01	1	0.01	0	0	0	0	0.014	1.2	0	0	0.5	0	0	0	0	0	0	0	0	0	0
98th	105.7	0.751	2.62	1058.0	4	66	0.9	0.26	0.23	36.1	38.5	103.3	8.34	9.0	20.0	0.07	77.3	1.22	1406.8	2.2	0.05	81.5	0.150	0.07	1.3	2.7	0.9	29	0.02	0.30	0.30	7.0	31	3.0	106.2	23.0	
95th	41.7	0.438	2.47	718.7	3	46	0.8	0.13	0.16	29.0	37.0	78.5	6.71	8.3	42.0	0.05	66.8	1.11	1189.8	1.8	0.03	52.0	0.125	0.05	1.0	2.4	0.7	13	0.02	0.25	0.20	5.0	26	2.0	114.5	29.7	
90th	18.7	0.206	2.30	385.9	2	41	0.8	0.08	0.13	23.3	34.5	64.8	5.36	7.5	26.7	0.04	59.8	1.00	836.7	1.5	0.02	44.2	0.103	0.04	0.8	2.1	0.6	10	0.02	0.20	0.20	3.5	23	0.8	107.3	28.8	
85th	9.0	0.206	2.16	57.0	1	38	0.8	0.07	0.11	18.0	32.0	57.7	5.14	7.1	22.0	0.04	55.7	0.90	707.2	1.3	0.02	37.0	0.080	0.04	0.3	0.7	1.9	0.5	9	0.01	0.17	0.07	3.0	21	0.4	83.4	23.2
80th	4.8	0.171	2.02	42.5	1	35	0.5	0.06	0.08	16.3	28.5	52.0	4.91	8.5	20.0	0.04	48.5	0.85	622.4	1.3	0.01	32.3	0.080	0.04	0.3	0.7	1.9	0.5	9	0.01	0.12	0.05	2.5	19	0.3	87.9	17.9
70th	3.1	0.135	1.85	25.7	0	30	0.5	0.04	0.06	12.0	28.0	44.2	4.56	6.1	23.0	0.03	42.9	0.73	522.1	1.1	0.01	27.0	0.078	0.03	0.2	0.5	1.7	0.4	7	0.01	0.07	0.03	1.7	18	0.0	79.8	12.0
60th	2.4	0.110	1.66	18.6	0	27	0.4	0.03	0.07	9.3	35.0	36.5	4.13	5.8	19.0	0.03	37.0	0.64	447.3	1.0	0.01	21.0	0.070	0.03	0.4	1.5	0.4	7	0.01	0.05	0.03	0.6	16	0.0	71.1	8.0	
50th	2.0	0.096	1.51	14.4	0	25	0.3	0.02	0.06	7.8	23.0	29.9	3.83	5.2	18.0	0.03	33.0	0.56	366.0	0.9	0.01	17.0	0.064	0.03	0.3	1.4	0.3	8	0.01	0.03	0.00	0.0	14	0.0	61.2	6.0	
40th	1.0	0.061	1.36	10.3	0	21	0.3	0.02	0.05	5.3	19.2	23.7	3.13	4.8	14.2	0.03	28.5	0.45	300.0	0.8	0.01	15.0	0.058	0.03	0.3	1.0	0.3	8	0.01	0.03	0.00	0.0	13	0.0	51.2	3.0	
30th	1.0	0.069	1.18	7.0	0	21	0.2	0.02	0.04	5.0	18.0	17.8	2.52	4.4	11.0	0.02	25.0	0.36	241.8	0.7	0.01	11.0	0.063	0.03	0.2	1.2	0.0	5	0.01	0.03	0.00	0.0	12	0.0	47.1	0.7	

Correlation Coefficients

1997 - 2000 Soil Samples

	Au	Ag	Al	As	B	Bs	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Ti	Te	Tl	U	V	W	Zn	Th
Au	1	0.0054	0.0739	0.3889	0.0123	0.0068	0.0087	0.0101	0.0471	0.0256	0.0762	0.0796	0.0781	0.0018	0.0013	0.0054	0.0741	0.0883	0.0045	0.0201	0.0031	0.0796	0.0261	0.1390	0.0041	0.0797	0.0081	0.0918	0.0002	0.0776	0.0048	0.0034	0.0025	0.0922	0.0978	0.0200	
Ag	0.0054	1																																			
Al	0.0739	0.1850	1																																		
As	0.3889	0.0208	0.1474	1																																	
B	0.0123	0.0580	0.1835	0.0293	1																																
Ba	0.0066	0.0067	0.2522	0.2004	0.1145	1																															
Bi	0.0087	0.1110	0.5395	0.1039	0.1840	0.5401	1																														
Ca	0.0101	0.0873	0.0279	0.0181	0.0864	0.1248	0.0206	1																													
Cd	0.0471	0.2488	0.1881	0.1297	0.0026	0.2637	0.1483	0.0881	1																												
Co	0.0256	0.1770	0.6481	0.0810	0.0783	0.1851	0.5058	0.1365	0.3240	1																											
Cr	0.0762	0.2226	0.8495	0.1408	0.1788	0.2448	0.6649	0.0550	0.1474	0.0089	1																										
Cu	0.0796	0.0702	0.7195	0.1851	0.1278	0.2194	0.7106	0.0552	0.2364	0.7854	0.8803	1																									
Fe	0.0781	0.1427	0.8390	0.1770	0.1908	0.1464	0.7283	0.0894	0.1888	0.5659	0.8787	0.7485	1																								
Ga	0.0318	0.1201	0.7504	0.0575	0.0957	0.2994	0.4468	0.0584	0.1780	0.3706	0.7783	0.5949	0.6589	0.0083	1																						
Hg	0.0243	0.3067	0.0445	0.3500	0.0881	0.1738	0.0843	0.0284	0.2053	0.0081	0.0685	0.0291	0.0128	0.0883	0.0251	1																					
K	0.0504	0.0957	0.1715	0.0180	0.0630	0.2511	0.0783	0.0179	0.1505	0.1183	0.1392	0.1828	0.0948	0.1245	0.0251	0.0083	1																				
La	0.0741	0.1976	0.4829	0.1481	0.0717	0.2058	0.2857	0.0488	0.2802	0.4140	0.3884	0.4823	0.3388	0.2895	0.0727	0.1036	0.0251	1																			
Mg	0.0883	0.2447	0.8320	0.1135	0.1586	0.0937	0.6077	0.0141	0.0803	0.6484	0.8912	0.8605	0.7470	0.6262	0.1685	0.0647	0.4123	0.0083	1																		
Mn	0.0045	0.0618	0.4603	0.0318	0.0278	0.1408	0.2747	0.0087	0.2805	0.5845	0.4224	0.4238	0.8603	0.3628	0.1058	0.0838	0.2380	0.4305	0.0045	1																	
Mo	0.0201	0.0607	0.3273	0.0347	0.1027	0.2326	0.8087	0.0087	0.1790	0.2000	0.4048	0.3983	0.4605	0.3608	0.1142	0.1147	0.1851	0.2457	0.1158	0.0201	1																
Na	0.0031	0.1343	0.0784	0.0448	0.1453	0.1332	0.1499	0.0495	0.1081	0.4008	0.0275	0.4771	0.0180	0.0128	0.0083	0.0251	0.0083	0.0031	0.0201	0.0031	1																
Ni	0.0796	0.1189	0.7187	0.1317	0.0727	0.1847	0.4784	0.2140	0.4313	0.8888	0.9402	0.7294	0.5987	0.4388	0.0283	0.1382	0.4985	0.6985	0.5365	0.1744	0.4108	0.0083	1														
Pb	0.1390	0.0547	0.5078	0.1996	0.1980	0.7383	0.1884	0.6272	0.6098	0.8147	0.8883	0.1102	0.1083	0.4013	0.5693	0.3435	0.4538	0.5029	0.5758	0.1872	0.0083	0.0083	0.0083	1													
S	0.0041	0.0944	0.2254	0.0172	0.1288	0.3088	0.5387	0.0551	0.0685	0.1364	0.2775	0.4818	0.5475	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	0.0185	1													
Sb	0.0757	0.1882	0.4409	0.2296	0.1038	0.1817	0.5529	0.1066	0.1815	0.4417	0.4597	0.5715	0.5612	0.3053	0.0280	0.0540	0.1185	0.3810	0.2812	0.3410	0.4059	0.4424	0.1555	0.5470	0.2300	0.0083	1										
Se	0.0001	0.1290	0.1830	0.1292	0.2502	0.2918	0.8073	0.2284	0.2187	0.6489	0.7148	0.7081	0.5708	0.7607	0.2288	0.2288	0.6823	0.7182	0.4778	0.1881	0.2688	0.7388	0.0885	0.4684	0.2002	0.2441	0.0083	0.0083	1								
Sr	0.0019	0.0041	0.3391	0.1073	0.1602	0.1362	0.5204	0.0640	0.1486	0.2229	0.3917	0.5485	0.6119	0.1710	0.1520	0.0582	0.3688	0.2118	0.1251	0.5497	0.3438	0.2199	0.1666	0.4836	0.5069	0.3961	0.1832	0.0083	0.0083	1							
Ti	0.0027	0.0221	0.0679	0.0004	0.0059	0.4785	0																														
Te	0.0770	0.1547	0.0085	0.0675	0.0652	0.2380	0.0666	0.0332	0.0112	0.0071	0.0045	0.0142	0.0180	0.1170	0.0124	0.2077	0.0788	0.1109	0.0666	0.0068	0.1671	0.0387	0.1823	0.1458	0.1977	0.0616	0.1315	0.0800	0.0096	0.0096	0.0096	0.0096	0.0096	0.0096			
Tl	0.0080	0.0874	0.2180	0.0874	0.1009	0.1919	0.1056	0.0349	0.1083	0.3605	0.3359	0.8110	0.4227	0.1278	0.0718	0.0589	0.1684	0.2754	0.1804	0.2140	0.2746	0.0387	0.0876	0.0388	0.2180	0.0384	0.3841	0.7637	0.8946	0.6111	0.6111	0.6111	0.6111	0.6111	0.6111		
U	0.0045	0.0618	0.4738	0.0302	0.0180	0.0010	0.0068	0.0282	0.0244	0.0452	0.0247	0.0340	0.0463	0.0729	0.0287	0.0721	0.0381	0.0811	0.0180	0.0248	0.0483	0.00518	0.0039	0.0329	0.0412	0.0143	0.0790	0.0081	0.0068	0.0178	0.2316	0.2316	0.2316	0.2316	0.2316		
V	0.0074	0.0236	0.2230	0.0054	0.0092	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062	0.0062		
W	0.0033	0.1697	0.4094	0.1062	0.0515	0.3961	0.2414	0.0883	0.5627	0.2025	0.5410	0.2017	0.9872	0.7883	0.1176	0.0871	0.1157	0.3323	0.0340	0.3115	0.3777	0.4487	0.5888	0.1412	0.1851	0.2925	0.2716	0.1145	0.0378	0.3838	0.0691	0.0162	0.0690	0.0690	0.0690		
Zn	0.0622	0.0429	0.2009	0.2447	0.0388	0.0278	0.0643	0.0050	0.0237	0.1818	0.1242	0.1088	0.0777	0.0287	0.0333	0.0030	0.0284	0.0302	0.0053	0.0078	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338		
Th	0.0975	0.1742	0.8572	0.1965	0.1414	0.2259	0.0787	0.0512	0.2903	0.7909	0.8361	0.8136	0.8505	0.5688	0.0735	0.1313	0.4408	0.6085	0.8222	0.3801	0.8842	0.8415	0.7230	0.7124	0.3383	0.5408	0.8481	0.3958	0.0006	0.0469	0.4384	0.0488	0.3178	0.3399	0.9986	0.9986	
Zn	0.0975	0.1742	0.8572	0.1965	0.1414	0.2259	0.0787	0.0512	0.2903	0.7909	0.8361	0.8136	0.8505	0.5688	0.0735	0.1313	0.4408	0.6085	0.8222	0.3801	0.8842	0.8415	0.7230	0.7124	0.3383	0.5408	0.8481	0.3958	0.0006	0.0469	0.4384	0.0488	0.3178	0.3399	0.9986	0.9986	
Th	0.0975	0.1742	0.8572	0.1965	0.1414	0.2259	0.0787	0.0512	0.2903	0.7909	0.8361	0.8136	0.8505	0.5688	0.0735	0.1313	0.4408	0.6085	0.8222	0.3801	0.8842	0.8415	0.7230	0.7124	0.3383	0.5408	0.8481	0.3958	0.0006	0.0469	0.4384	0.0488	0.3178	0.3399	0.9986	0.9986	

APPENDIX G

QUALITY CONTROL / QUALITY ASSURANCE

QUALITY CONTROL / QUALITY ASSURANCE

I. Chain of Custody:

All samples were packed in rice sacks and sealed with uniquely-numbered non-resealable security straps. All rice sacks were stored in camp until demobilization when they were delivered to Byers Transport Ltd. for shipping to Vancouver. Acme Analytical Laboratories Ltd. reported that all bags were received in good condition, with all security straps intact, and with no evidence of tampering.

II. Blanks:

Blanks are samples which are known to be barren of mineralization, and are inserted into the sample stream to determine whether contamination has occurred after sample collection.

a) Soil Samples:

A total of five blank soils were inserted into the sample sequence approximately every 40th sample and submitted for analysis. The blanks were prepared in Vancouver and analyzed by Chemex Labs Ltd. of North Vancouver in April 2000, with ten analyses giving a reproducible set of values. The following table compares the Hy blank soil samples to the accepted values returned from pre-field analysis:

SAMPLE	Au ppb	Sb ppm	As ppm	Bi ppm	Cu ppm	Pb ppm	Mo ppm	Ag ppm	Te ppm	W ppm	Zn ppm
Pre-field prepared blank:											
Mean+2Std.Dev.	<5	0.30	2.06	0.05	19.98	2.00	0.20	0.02	<.05	0.10	37.1
Mean-2Std.Dev.	<5	0.035	1.38	0.03	16.85	2.00	0.20	0.02	<.05	0.017	31.2
2000 Hy blanks:											
L108N 9300E-B	1.2	0.28	1.4	0.04	16.04	2.47	0.27	0.019	0.02	< .2	28.6
L115N 8400E-B	1.2	0.2	1.3	0.03	17.88	2.79	0.29	0.02	0.04	< .2	32.3
L109N 9800E-B	1	0.32	1.7	0.03	15.16	2.57	0.26	0.02	0.02	< .2	28.5
L117N 9300E-B	2	0.22	1.1	0.04	16.5	2.55	0.26	0.021	0.04	< .2	28
L123N 9950E-B	5	0.24	1.8	0.04	17.32	2.76	0.26	0.025	0.02	< .2	32.8

Despite slight differences in ICP analyses from Chemex and Acme Labs, all Hy blanks returned values within accepted limits with respect to values returned from pre-field analysis of the blanks. This indicates that there was no significant contamination of the Hy blanks submitted for analysis, and, by extension, the remainder of the soil samples.

b) Rock Samples:

Two blank rocks were inserted into the sample sequence approximately every 20th sample and submitted for analysis. The blanks were collected from barren granite located in float at the camp site. These blanks returned low values, indicating that there was no significant contamination of the 2000 rock samples.

2000 Hy Blanks:

Sample	Au ppb	Sb ppm	As ppm	Bi ppm	Cu ppm	Pb ppm	Mo ppm	Ag ppm	W ppm	Zn ppm
312233	< 2	< 3	< 2	< 3	1	8	3	< .3	2	38
231055	< 2	< 3	3	< 3	2	7	1	< .3	2	39

III. Field and Lab Duplicate Analysis (Soils):

Lab duplicates are analyses of two portions of a prepared sample, while field duplicates are two separate analyses of separate samples collected from the same field location. They are used to measure the reproducibility of laboratory analyses and sampling (which includes both laboratory and sample variation, respectively). A total of thirteen field duplicate soil samples were collected at approximately every 20th sample location and submitted for analysis. Thompson and Howarth (1976, 1978) demonstrated that the analytical precision of a dataset can be estimated by duplicate analyses. They established a graphical representation of the precision that is effective for datasets of 10 to 50 samples.

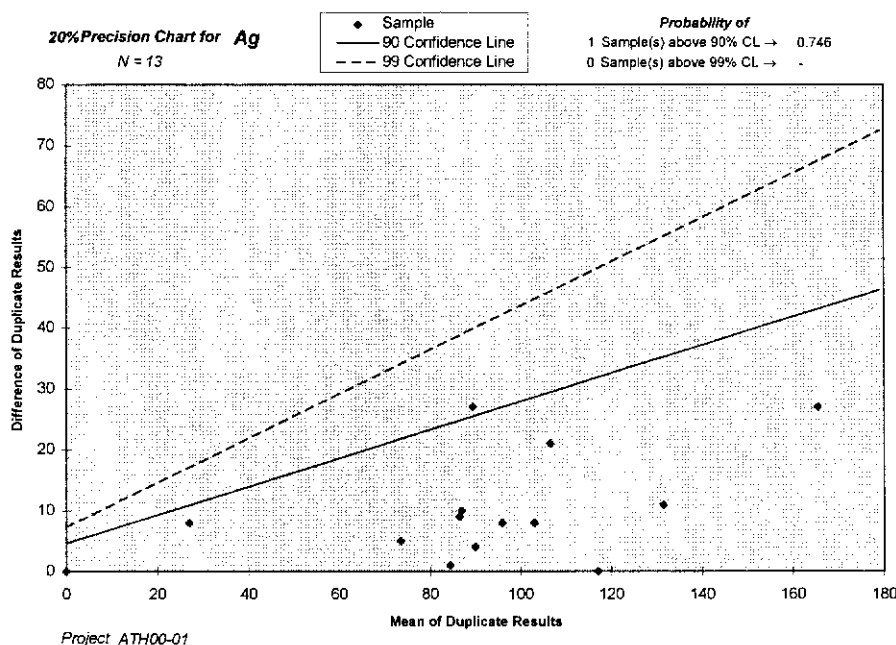


Figure 1: Graph illustrating Thompson and Howarth estimation of analytical precision, method two. The data points represent duplicate pairs, the solid line represents the 90th percentile of the population, and the dashed line the 99th percentile of the population (n=13 duplicate pairs). In this instance, the precision was set at 20%, and at this level within the given dataset, 1 sample falls above the 90th percentile line. From the binomial probability it can be read that at 20% precision, the probability of 1 sample falling above the 90th percentile is 74.6%.

Inspection of graphs used to estimate analytical precision of the field duplicates indicates that, for most elements, all duplicate samples plot below the 90th percentile line, indicating excellent

correlation between duplicates. In cases where duplicate pairs plot above this line, the computed probabilities of these occurrences is high (74.6%). The graph for Co indicates that one duplicate sample plotted above the 99th percentile line, with a low computed probability (12.2%). However, the absolute difference of this pair is less than 4 ppm.

The graph for Au indicates that seven samples plotted above the 90th percentile line and three plotted above the 99th percentile line. The computed probability of this occurrence is low at 20% precision. With the exception of one sample, all the duplicate pairs plot very close to the origin of the graph, and the detection limit for Au, with absolute differences of less than 5 ppb. Inspection of lab-prepared duplicate pairs for Au shows a very similar distribution, indicating an inherent irreproducibility in the soil medium for Au. One duplicate pair showed a significant absolute difference between samples. Soil was poorly developed at this sample location and several pits were utilized to accumulate material for these samples. This behaviour of Au, called a "nugget effect", is common in rocks and sediments, particularly in proximity to high-grade mineralization as exposed at the East Gold Zone, where this duplicate pair was collected.

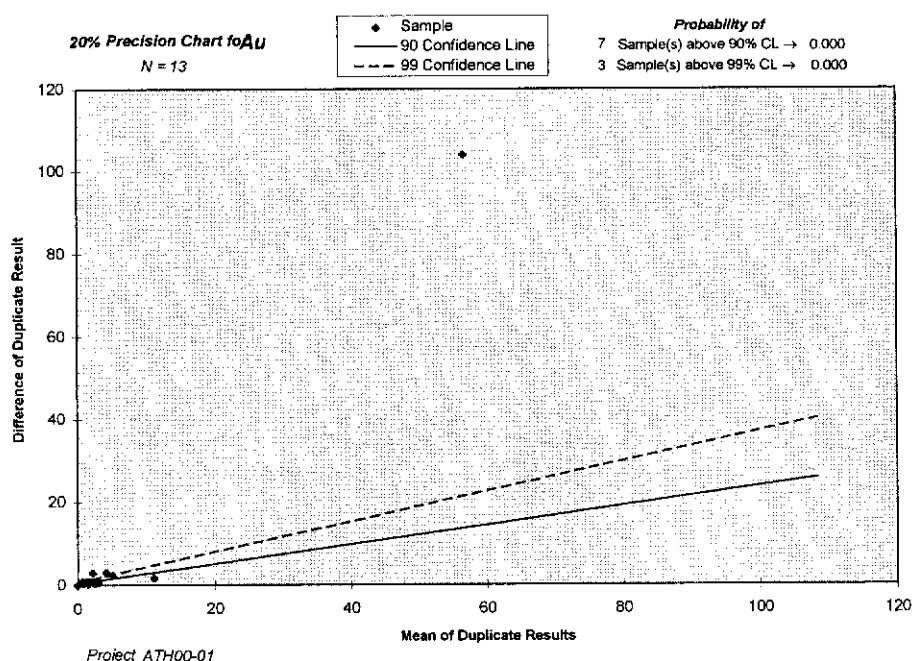


Figure 2: Graph illustrating Thompson and Howarth estimation of analytical precision of Au, method two, for 2000 Hy field duplicates.

IV. Overlimit Assaying:

Two rock samples were submitted for overlimit assaying after original fire assays returned values greater than 1000 ppb Au. Original 30g fire assaying with ICP finish of sample 312216 returned a value of 2190 ppb Au, while 1 assay-ton (29.2g) fire re-assaying of the pulp with ICP finish returned 2.51 g/t Au, a 14.6% increase in Au. This result is not unreasonable for Au analysis.

Original fire assaying of sample 231056 returned a value of 19,360 ppb Au and the reject of this sample was submitted for screen analysis. The 500g screen analysis noted a significant quantity of gold, 2.35mg, in the +150# fraction, which impacted the total fire assay result and indicates the presence of coarse gold and a possible "nugget effect". The -150# fraction returned 18.47 g/t Au, which correlates well with the original result, and the combined total fire assay result returned 23.1 g/t Au.

APPENDIX H

GEOLOGIST'S CERTIFICATE

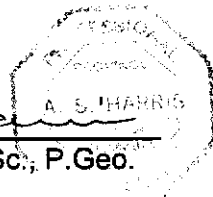
GEOLOGIST'S CERTIFICATE

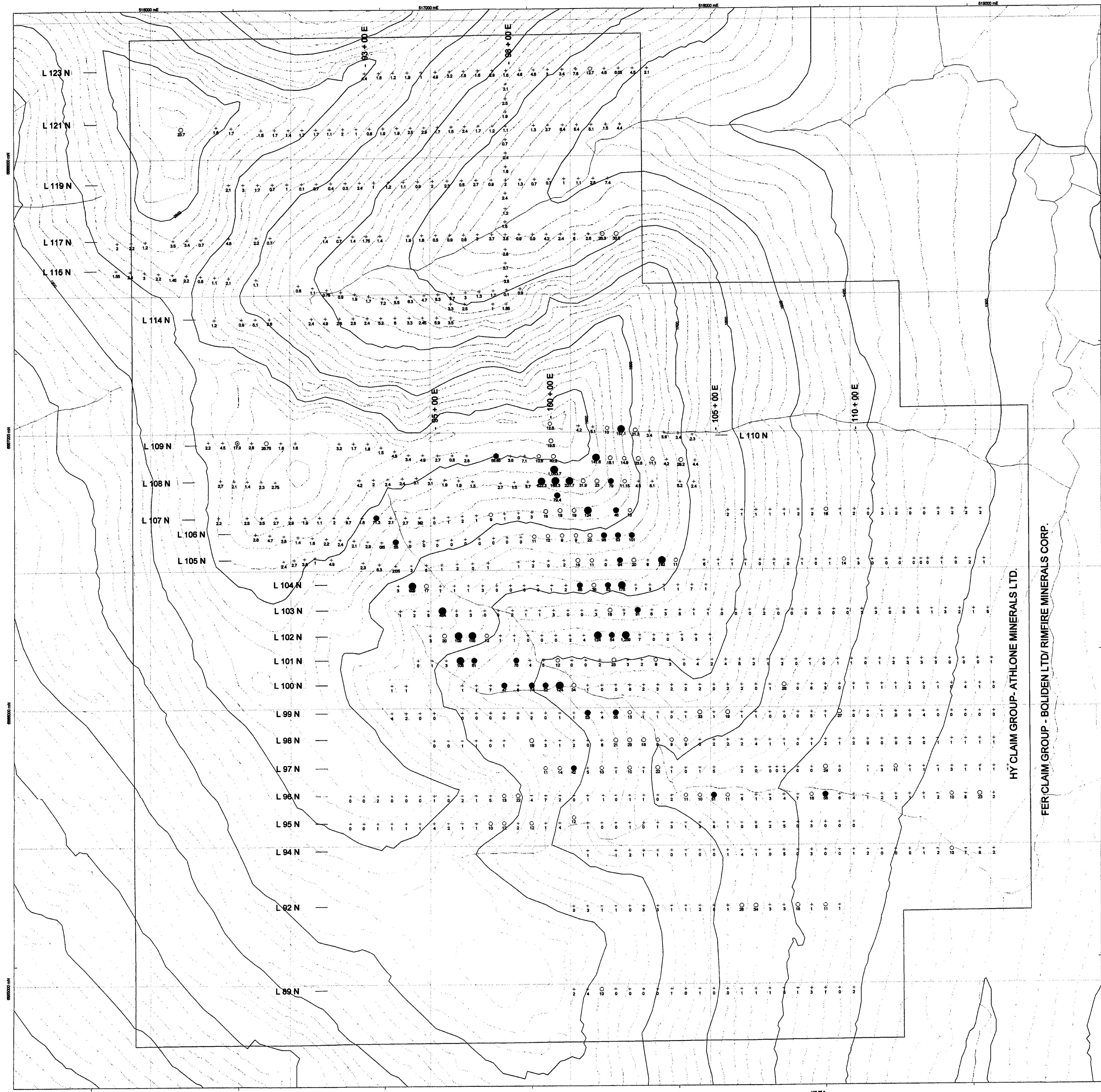
I, Stewart Harris of 20771 44 Avenue, Langley, in the Province of British Columbia, DO
HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 700, 700 West
Pender Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor
of Science degree in Geology (1988).
3. THAT I am a Professional Geoscientist registered in good standing with the
Association of Professional Engineers and Geoscientists of the
Province of British Columbia (No. 23287).
4. THAT this report is based on property work I conducted and supervised
September 6 - 16, 2000, as well as government publications and
assessment reports filed with the Yukon Territory.

DATED at Vancouver, British Columbia, this 30th day of October, 2000.


Stewart Harris, B.Sc., P.Geo.





0 200 500
Meters 1:5000

ATHLONE MINERALS LTD.
HY PROPERTY
GOLD SOIL GEOCHEMISTRY

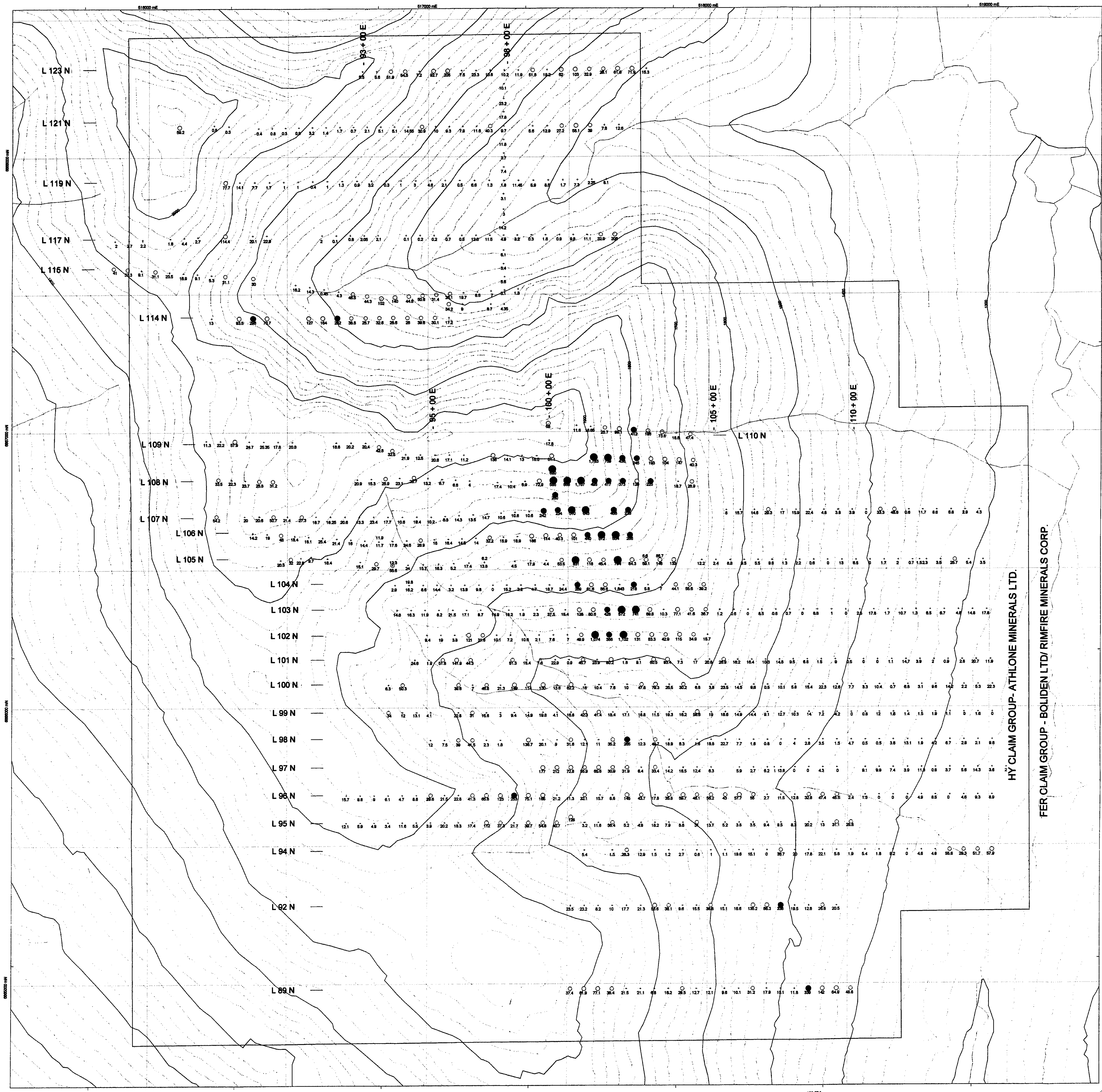
Date	Scale	Page
October 12, 2000	1:5,000	5a

0774 8 - Nod 27
P72 108416
WATSON LAKE
YUKON TERRITORY

094146

Hy Property Soil Grid - Au (ppb)

- 105.7 to 1,944 - Greater than 98th percentile (17)
- 41.73 to 105.7 - 85th to 98th percentile (24)
- 16.7 to 41.73 - 50th to 85th percentile (40)
- 9 to 16.7 - 25th to 50th percentile (42)
- + all others (581)



094146

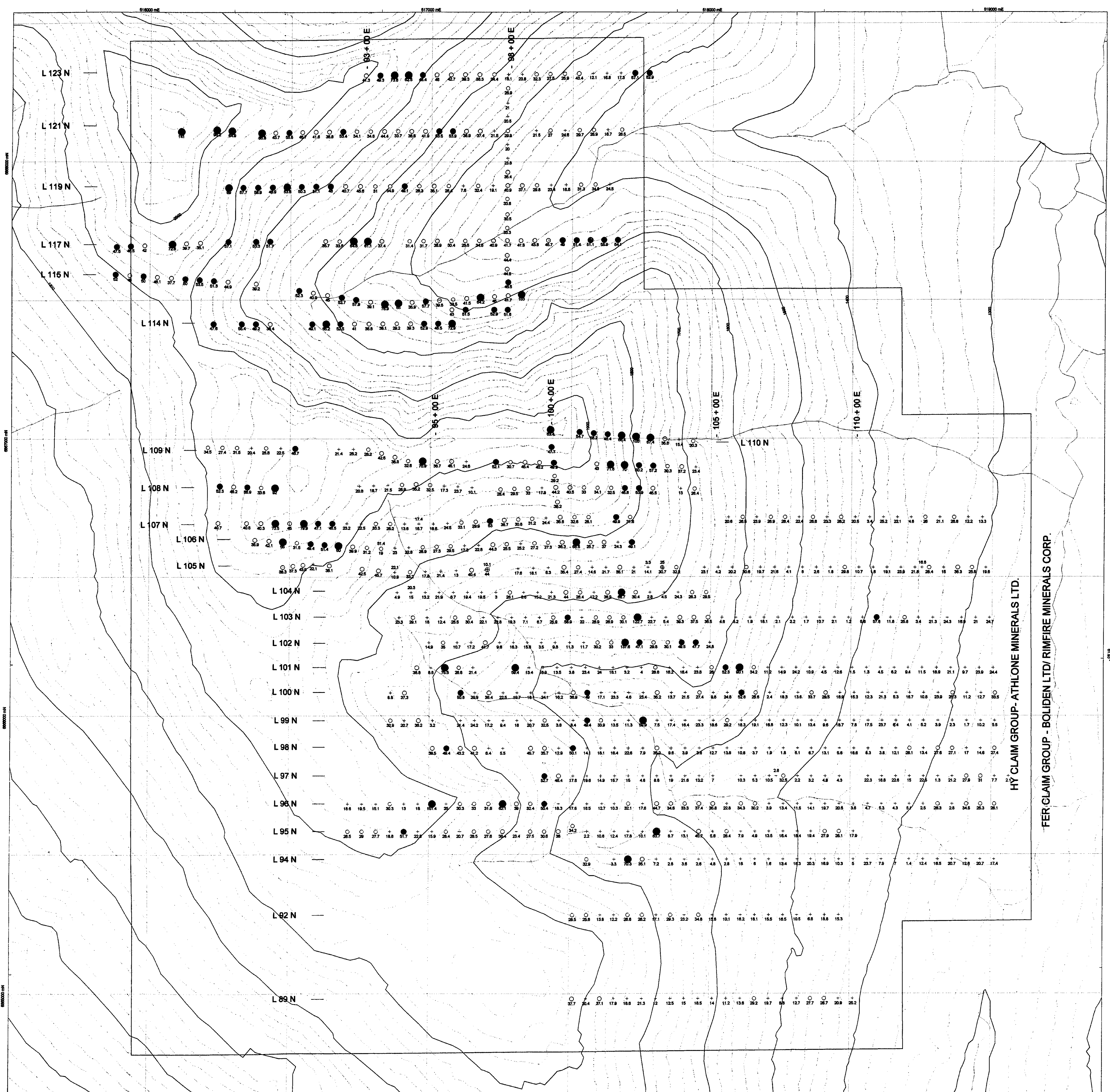
Hy Property Soil Grid - As (ppm)

- 508.994 to 1,842.5 - Greater than 98th percentile (16)
- 216.89 to 508.994 - 95th to 98th percentile (24)
- 57.025 to 216.89 - 55th to 95th percentile (90)
- 25.7 to 57.025 - 70th to 55th percentile (122)
- all others (562)

0 200 500
Meters 1: 5000

ATHLONE MINERALS LIMITED
HY PROPERTY
ARSENIC SOIL GEOCHEMISTRY

City
Date: October 25, 2000
Scale: 1:5,000
Page: 5b
UTM Zone: 8 - Quad 27
Magnetic Declination: 108W18
Location: WATSON LAKE
Region: YUKON TERRITORY



094146

Hy Property Soil Grid - Pb (ppm)
● 59.33 to 151.40 - Greater than 95th percentile (41)
● 46.43 to 59.33 - 85th to 95th percentile (80)
○ 35.00 to 46.43 - 70th to 85th percentile (120)
○ 25.25 to 35.00 - 50th to 70th percentile (161)
+ all others (402)



ATHLONE MINERALS LIMITED			
HY PROPERTY			
LEAD SOIL GEOCHEMISTRY			
	Date: October 28, 2000 Drawn: 1:5,000 Scale: 1:5,000 Sheet: 5d	Drawn: 1:5,000 Scale: 1:5,000 Sheet: 5d	Drawn: 1:5,000 Scale: 1:5,000 Sheet: 5d