2005 GEOCHEMICAL, GEOLOGICAL, PROSPECTING AND TRENCHING REPORT
NICOAMEN RIVER PROPERTY (Tenure nos. 511667, 511671, 506513, 508830)

Kamloops Mining Division, British Columbia
NTS: 92I/3W; BCGS: 092I014
Latitude 50°10'N, Longitude 121° 20'W
UTM Zone 10: 619000E, 5559000N (NAD 83)

February 2006

(BC 2005 ASSESSMENT)

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1.0 SUMMARY AND CONCLUSIONS

Between 2003 and 2005 Almaden Minerals Ltd. has explored for epithermal gold deposits on a parcel of ground underlain by the Lower Cretaceous Spences Bridge Group volcanic assemblage located south and east of Lytton, BC. This area was chosen for exploration because a BC RGS sample had identified a moderate gold-in-silt anomaly. Encouraging results from prospecting, reconnaissance stream sediment, soil and rock sampling led to the staking of the NICOAMEN RIVER property in late 2004. The southern half of the property has been covered with a relatively coarse soil grid (771 samples), and the main zone of mineralisation and alteration (Discovery Zone) has been geologically mapped and explored with additional rock grab samples and five short hand trenches which were mapped and channel sampled. The West Zone has also been explored by limited hand trenching with related mapping and rock sampling.

All stream sediment and soil samples were analysed for 36 elements by ICP-MS by Acme Analytical Laboratories Ltd. of Vancouver. The results show that the arsenic, antimony and molybdenum values correlate very well with the gold results. Five of the stream sediment samples collected on or around the property returned gold results >2.2ppb, which is considered to be anomalous for this area. Re-sampling of the BC RGS site (two samples) gave 2 and 2.1 ppb Au. Reconnaissance soil samples taken in 2004 highlighted the Discovery and West Zones. The results from additional soil samples taken during 2005 confirmed the earlier results and indicated an extension to the West Zone. Practically all reconnaissance soil samples with anomalous Au results are also highly anomalous in As, Sb and Mo. One major and four minor gold-in-soil anomalies were defined, with associated As and Sb anomalies. In general, elevated arsenic values coincide with, and may extend beyond, anomalous gold results, and anomalous antimony results coincide with arsenic anomalies, and have about the same extent. Some areas with higher mercury and molybdenum values correlate with gold, arsenic and antimony anomalies, but many do not.

All rock samples, reconnaissance (21 samples) and trench (15 samples), were also analysed for 36 elements using ICP-MS, but only the gold values have been studied statistically and displayed. Sixteen (76%) of the reconnaissance rocks returned >100ppb Au, and four (19%) reported over 1000ppb Au. The highest value is 55526.1 ppb Au (64.87 g/t after fire assay). Most of the reconnaissance rock samples comprised angular pieces of chalcedonic quartz vein material plus or minus altered host rock selvages or clasts.

Of the 15 samples taken from six trenches, 11 (73%) yielded >100ppb Au and two (13%) gave over 1000ppb Au. The highest value, 1828 ppb Au, which on assay gave 2.27 g/t Au, was from trench DZT05-3. Pulps of the five samples from DZT05-3 were assayed, and four reported over 1 g/t Au. The five contiguous samples yielded **1.77 g/t Au averaged over a length of 3.5m**. In the West Zone, two of the trench samples are grab samples of broken material exposed while trenching, and the third is a channel sample taken with a hammer and chisel. The sample weights varied from 3.5 to 6kg. The West Zone trench samples returned only low gold values.

The work conducted during 2004 and 2005 has resulted in the discovery of gold-quartz mineralisation in the Discovery Zone and a strong gold-in-soil anomaly 2.3 km to the west (West Zone). The presence of a well defined high gold soil anomaly southeast of the Discovery Zone indicates very prospective ground. The strong association of arsenic and antimony with gold and the presence of abundant chalcedony are typical of a low sulphidation epithermal gold environment. The characteristic trace element geochemistry and classic mineral textures observed to date are indicative of the upper portions of an epithermal system. This implies only shallow erosion of the source deposit(s). A prime target area is the gold anomaly southeast of the Discovery Zone.

Further exploration on the NICOAMEN RIVER property is definitely warranted, and is strongly recommended.

2.0 RECOMMENDATIONS

The following program is recommended for the NICOAMEN RIVER property:

1) Detailed grids, with lines 50m apart and sample stations at 25m intervals, should be established and soil sampled in all areas where the Coarse Grid soil sampling results indicate a soil gold anomaly, particularly if there is a coincident arsenic and /or antimony anomaly.

2) Once detailed soil sampling has defined firm Au-As-Sb anomalies they should be further explored with magnetometer and VLF-EM surveys.

3) The Coarse Grid should be extended to the south by 900m in the area east of line 18000E, and soil sampled at 50m x 200m spacing. Any resulting gold +/- arsenic +/- antimony anomalies should be followed up by detailed grid (25m x 50m) soil sampling.

4) A trench should be excavated parallel to the Detailed Soil Line in the Discovery Zone area between 0m and 40m. This will require the use of a small trenching machine.

5) Assuming success, an additional 40m long trench should be excavated 30m east of and parallel to the first trench. These trenches could lead to additional trenching for definition of drill targets.

6) All gold soil anomalies should be vigorously prospected.

7) The mineralised float cobbles found north and west of the Discovery Zone should be traced. It is suspected that the Nicoamen River Fault is the source.

Respectively submitted

ALMADEN MINERALS LTD. **HYLANDS GEOLOGICAL SERVICES LTD.**

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E.A. Balon, P. Geo
16 February, 2006

PROFESSIONAL PROVINCE OF J.J. HYLANDS BRITISH COLUMBIA ENGINEER

J.J. Hylands, P. Eng
16 February 2006

3.0 INTRODUCTION

This report describes the results of exploration work conducted during the initial (2004/05) anniversary year on the ZAK claim group, to substantiate the related expenditures applied for assessment credits.

3.1 Location, Access, Physiography and Climate (Figures 1 & 2)

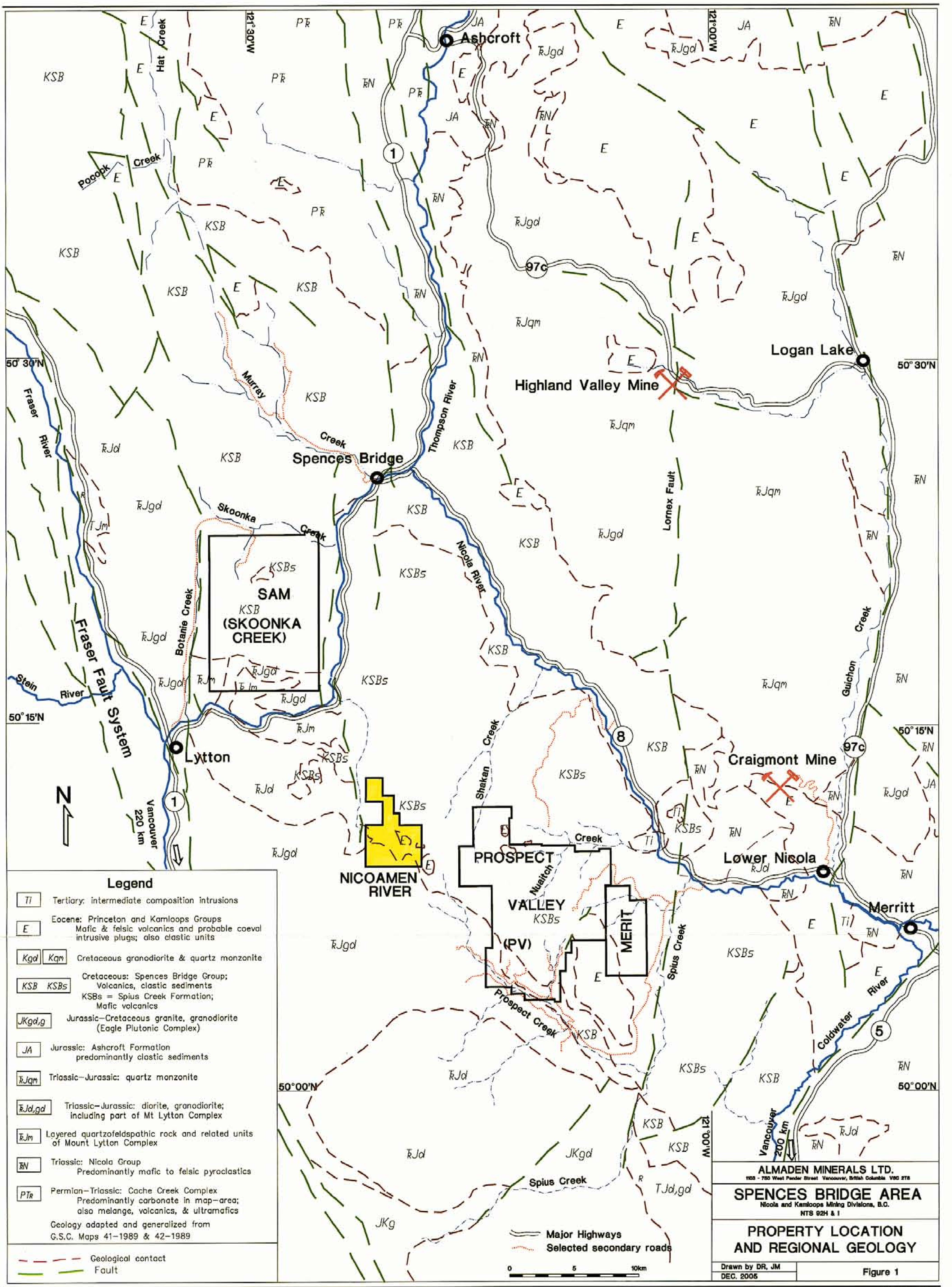
In straight line distance the Nicoamen River Property (ZAK claim group) is centered 40km WNW of the city of Merritt, at latitude 50°10'N and longitude 121° 20'W (UTM Zone 10: 619000E, 5559000N) in NTS map area 92I/3 (Figure 1). Good ground access is afforded via the Nicoamen and Ainslie North – Mowhokam gravel forestry road systems, which link to the Trans-Canada Highway (Hwy 1) 15km east of Lytton and 10km north of Boston Bar, respectively. These forestry roads join near the southwest corner of the property, 47km southeast from Lytton and 38km northeast of Boston Bar. From this point the main branch roads lead to networks of logging spurs which extend for several kilometres northeasterly into the central and southern claim areas. The most northerly portion of the claim group is accessible by another logging spur road off the Nicoamen Main Trunk located about 6km north of the junction described above.

The ZAK claims are situated within the Intermontane physiographic region of rolling upland terrain on the southern Interior (Thompson) Plateau, on the west side of the Nicoamen Plateau and east of the Cascade Mountains. Topography is moderate to locally steep, with elevations ranging from 750m asl in the north in the steep-walled canyon of the Nicoamen River, climbing steadily to 1750m on the southern boundary of the claim group. The property covers part of the drainage of Nicoamen River, which flows northward to join the Thompson River 15km east of Lytton.

Soil and glacial till cover is extensive and generally shallow, but includes locally relatively deeper deposits. Overall bedrock exposure is moderate to locally abundant in road cuts and in some of the stream gullies, as well as on steep upper slopes, ridge crests and in the Nicoamen River canyon. Glacial striae have not been observed to date in outcrop on the property; however, the local ice flow direction is shown as southerly in the published literature (Ref GSC Paper 79-25, Figure 12, p 13).

The climate is semi-arid, with commonly hot dry summers having temperatures in the 25°C to 45°C range at Lytton. All areas of the property are generally free of snow from late May or early June through October.

Vegetation consists mainly of widely spaced lodgepole pine and Douglas fir changing to more dense balsam fir, spruce and cedar along creek valleys. Dense brush consisting of alder and willow is common along most of the stream



Ashcroft
Logan Lake
Highland Valley Mine
Lornex Fault
Spences Bridge
Thompson River
Nicola River
Murray Creek
Skoonka Creek
Botanie Creek
Hat Creek
Pocock Creek
Fraser River
Fraser Fault System
Stein River
Lytton
Vancouver 220 km
SAM KSB (SKOONKA CREEK)
NICOAMEN RIVER
PROSPECT VALLEY KSBs (PV)
MERIT
Shakan Creek
Nuaitch Creek
Prospect Creek
Spius Creek
Guichon Creek
Craigmont Mine
Lower Nicola
Merritt
Coldwater River
Vancouver 200 km
50° 30'N
50° 15'N
50° 00'N
121° 30'W
121° 00'W
N
Legend
Ti Tertiary: intermediate composition intrusions
E Eocene: Princeton and Kamloops Groups Mafic & felsic volcanics and probable coeval intrusive plugs; also clastic units
Kgd Kqm Cretaceous granodiorite & quartz monzonite
KSB KSBs Cretaceous: Spences Bridge Group; Volcanics, clastic sediments KSBs = Spius Creek Formation; Mafic volcanics
JKgd,g Jurassic–Cretaceous granite, granodiorite (Eagle Plutonic Complex)
JA Jurassic: Ashcroft Formation predominantly clastic sediments
TrJqm Triassic–Jurassic: quartz monzonite
TrJd,gd Triassic–Jurassic: diorite, granodiorite; including part of Mt Lytton Complex
TrJm Layered quartzofeldspathic rock and related units of Mount Lytton Complex
TrN Triassic: Nicola Group Predominantly mafic to felsic pyroclastics
PTr Permian–Triassic: Cache Creek Complex Predominantly carbonate in map-area; also melange, volcanics, & ultramafics
Geology adapted and generalized from G.S.C. Maps 41-1989 & 42-1989
Geological contact
Fault
Major Highways
Selected secondary roads
0 5 10km
ALMADEN MINERALS LTD.
SPENCES BRIDGE AREA
Nicola and Kamloops Mining Divisions, B.C.
NTS 92H & I
PROPERTY LOCATION AND REGIONAL GEOLOGY
Drawn by DR, JM
DEC. 2005
Figure 1

gullies and road cuts, and in swales between topographic highs. Approximately 60% of the property area has been logged since 1990.

3.2 Claim Data

The present property consists of four contiguous mineral claims with an aggregate land area of 1945.16 hectares (~19.5 km^2) in the Kamloops Mining Division, BCGS map areas 092I014 (Figure 2). An initial group of two 4-post claims (ZAK 1 & 2, Tenure Nos. 414882 & 414883) was acquired by physical staking during October 18-20, 2004.

Following implementation of the Mineral Titles Online (MTO) electronic acquisition system, two new BCGS grid cell claims – ZAK 3 & 4, Tenure Nos. 506513 and 508830– were acquired on February 10, 2005 and March 11, 2005, respectively. The ZAK 1-2 legacy claims described above were converted into cell claims (Tenure Nos. 511671 & 511667) on April 26, 2005.

Locations of the current claims are shown on Figure 2 and the respective claim data are summarized in Table 1. The expiry dates as listed in the table are subject to approval of the work filed in conjunction with this report (Event Nos. 4051847 and 4068129). Copies of the work filing confirmations are included in this report as Appendix A. All of the claims are 100% owned by Almaden Minerals Ltd. (FMC #144134).

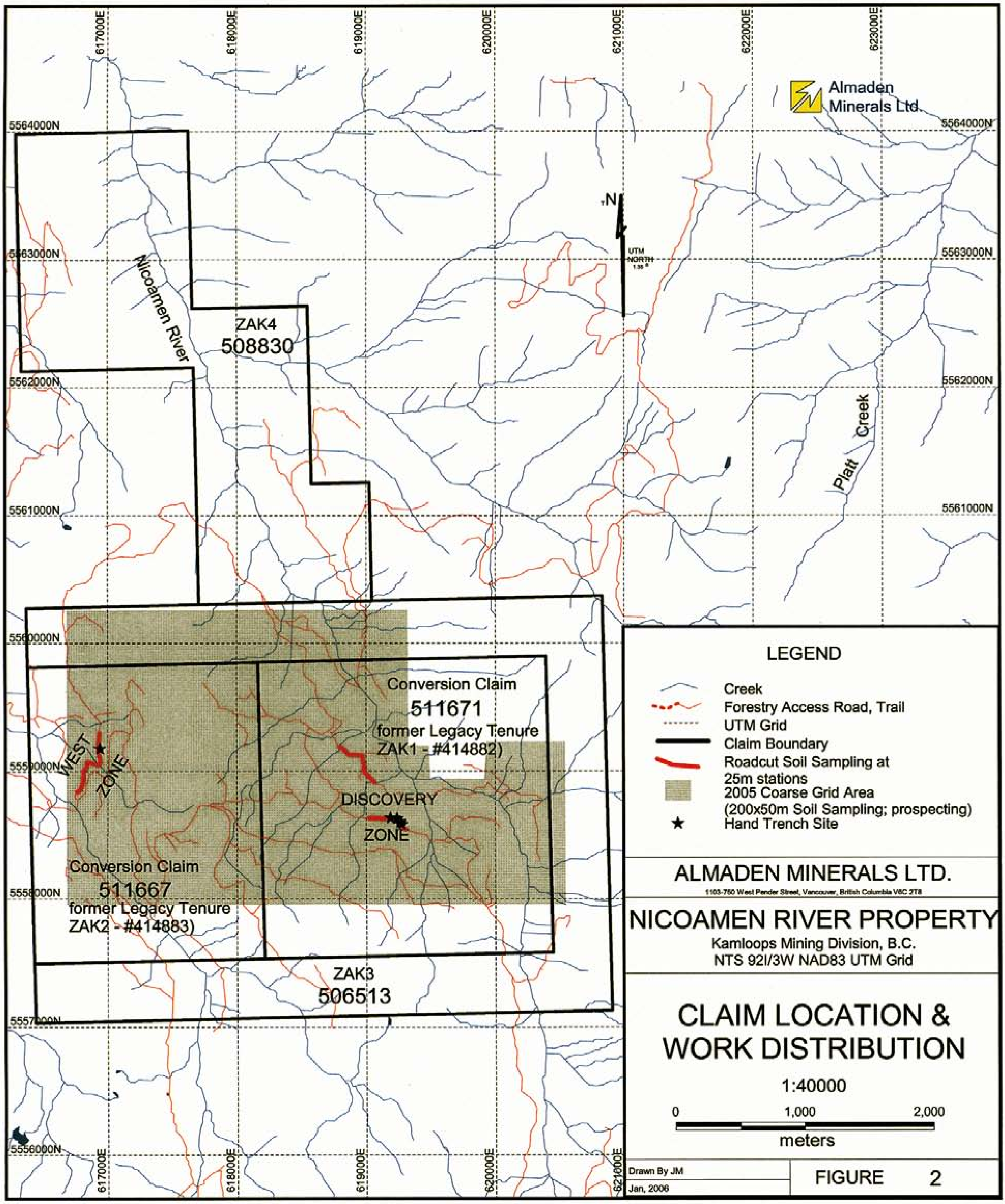
Table 1: Mineral Claim Summary – as at January 1, 2006.

Claim Name	Tenure No.	# Cells	Area, ha	Expiry Date
-	511667	20	413.93	2010/Dec 31
-	511671	25	517.42	2010/Dec 31
ZAK 3	506513	25	517.42	2008/Dec 31
ZAK 4	508830	24	496.39	2006/Dec 31

3.3 History

There are no published records of any prior mineral exploration work in the area covered by the NICOAMEN RIVER property, and there are no previously documented mineral occurrences for this locality in the BC Minfile database. No old claim posts have been found to date.

In 1981 a federal-provincial government Regional Geochemical Survey was carried out over the entire Ashcroft (NTS 92I) map area. The initial results of this survey were published in 1982 as BC RGS 8/GSC Open File 866. In 1994 the


Almaden Minerals Ltd.
617000E
618000E
619000E
620000E
621000E
622000E
623000E
5564000N
5563000N
5562000N
5561000N
5560000N
5559000N
5558000N
5557000N
5556000N
N
UTM NORTH
Nicoamen River
ZAK4
508830
Platt Creek
Conversion Claim
511671
former Legacy Tenure
ZAK1 - #414882)
WEST ZONE
DISCOVERY
ZONE
Conversion Claim
511667
former Legacy Tenure
ZAK2 - #414883)
ZAK3
506513
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Roadcut Soil Sampling at 25m stations
2005 Coarse Grid Area (200x50m Soil Sampling; prospecting)
Hand Trench Site
ALMADEN MINERALS LTD.
1103-750 West Pender Street, Vancouver, British Columbia V6C 2T8
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
CLAIM LOCATION & WORK DISTRIBUTION
1:40000
0
1,000
2,000
meters
Drawn By JM
Jan, 2006
FIGURE 2

sample pulps were re-analyzed by improved techniques and for additional elements, including gold. The new data were published as BC RGS 40/GSC Open File 2666 which identified one moderate gold-in-silt anomaly (6ppb) located in the Nicoamen River drainage, represented by sample site numbered 811017.

During the summer of 2003 six follow-up silt samples were collected in the vicinity and upstream of BC RGS sample 811017. These were submitted to Acme Analytical Laboratories Ltd. (Acme) of Vancouver, BC, for multi-element analysis. The results from these samples were not encouraging for gold, but two returned strongly anomalous arsenic results. The headwaters area of the Nicoamen River was re-visited twice during the 2004 exploration season before claims were staked. An additional 41 stream sediment, 15 reconnaissance soil and 16 rock grab samples were collected and analysed by Acme for 36 elements. The program included detailed road cut and stream gully prospecting in conjunction with further geochemical sampling. The 2004 work resulted in the identification of numerous significant gold-bearing quartz float occurrences and of two local strongly altered subcrop exposures (Discovery and West Zones) carrying anomalous multi-element values.

All of the 2003 – 2004 (pre-staking) sample locations, descriptions and selected analytical data are included in this report as Appendix B.

3.4 2005 Exploration Program

Post-staking fieldwork during 2005 consisted of an initial grid soil geochemical sampling survey (771 samples), further prospecting and reconnaissance geochemical sampling (7 stream sediment, 56 soil, 5 rock samples), and limited hand trenching with related bedrock mapping/sampling of the Discovery and West Zones (15 trench rock samples). All of the samples were delivered to Acme in Vancouver, BC, for 36-element geochemical analysis plus a few selected gold/silver assays.

The great majority of this program was conducted on the conversion claims with Tenure Nos. 511667 and 511671 prior to their first anniversary dates of October 20, 2005. The work was conducted by one company employee and four contract personnel, all based at the Green Canyon Motor Inn near Boston Bar, BC. The company employee acted as overall supervisor and Qualified Person (QP) for the project. All UTM grid locations were initially recorded in NAD 27 using Garmin 12XL handheld GPS receiver units; these readings were later converted to NAD 83 for presentation purposes. The work types and distribution are shown on Figure 2.

The 2005 post-staking reconnaissance sample locations, descriptions and selected analytical data are tabled in Appendix C.

4.0 GEOLOGY

4.1 Regional Geology and Mineral Deposits (Figure 1, Plate 1)

The regional bedrock geology is shown on Figure 1 and Plate 1. These maps cover part of the southern Intermontane Tectonic Belt of the Canadian Cordillera. Figure 1 was compiled and simplified from GSC Maps 42-1989 (Ashcroft, by J.W.H. Monger and W.J. McMillan, 1989) and 41-1989 (Hope, by J.W.H. Monger, 1989). The orthophoto base and geology for Plate 1 were obtained from the British Columbia MapPlace website. The geology is a compilation of work published by various British Columbia Geologic Survey members.

Lithologies within the immediate property area include Permian to Triassic Mount Lytton Complex granodiorite and diorite intrusive rocks, Lower Cretaceous Spences Bridge Group (Spius Creek Formation) andesitic volcanics and Eocene Kamloops Group undivided volcanic rocks.

The dominant rock assemblage underlying the NICOAMEN RIVER property is the Cretaceous Spius Creek Formation, a basaltic andesite unit (SBSva). This is the upper sequence of the Spences Bridge Group (IKSB / IKSBS) which is a broad northwest-trending thick sequence of gently folded volcanics with lesser sediments, dipping shallowly to the northeast. This assemblage includes intermediate, locally felsic and mafic flows and pyroclastics with some sandstone, shale and conglomerate (IKSB). The upper division was formerly called the Kingsvale Group by earlier government geologists (Rice, 1947; Duffell and McTaggart, 1952; and others before Thorkelson, 1985). The Spences Bridge Group unconformably overlies older plutonic rocks, mainly granodiorite to diorite of the Permian to Triassic Mount Lytton Complex (PTrMgd/dr) occupying the southwestern part of the property. The Spences Bridge Group is unconformably overlain by Eocene Kamloops Group (EKav) mafic and felsic volcanics.

The major structural features in the region are steeply dipping normal faults. The Nicoamen River Fault parallels the Nicoamen River which crosses the property from south to north. The Nicoamen West Fault is approximately parallel to the Nicoamen River Fault and lies along the west boundary of the property. These faults are parallel or subparallel to the Fraser River Fault System. Although faults have been mapped with a variety of attitudes, the dominant trends are north-south and $140^0 - 150^0$ (Monger, 1981). It has been postulated that the rocks of the Spences Bridge Group formed as a chain of stratovolcanoes associated with subsiding, fault bounded basins (Souther, 1991 and Thorkelson, 1985).

Low sulphidation type epithermal gold mineralisation hosted by quartz veins and breccia in carbonate altered Spences Bridge volcanics has been found from the MERIT to the SKOONKA CREEK (formerly SAM) properties, a distance of 40 kilometres (Figure 1). Major producers and past-producers in the area include the Highland Valley Mine, Bethlehem Copper and Lornex (all large volume porphyry copper deposits), and Craigmont, a copper-iron skarn deposit northwest of Merritt.

4.2 Property Geology, Alteration and Mineralization

No effort has been made to date to geologically map the NICOAMEN RIVER property in a systematic manner. The Discovery Zone and West Zone road bank exposures were mapped while the trenches were being sampled.

In the trenches the most abundant mineral is quartz, as narrow veins in shears in altered granodiorite (Discovery Zone) and as clasts or "sweats" in brecciated quartzofeldspathic rock (QFR, West Zone). In many cases the quartz is rhythmically banded chalcedony. Sulphides are conspicuous by their absence in the Discovery Zone but up to 5% pyrite +/- arsenopyrite occurs locally in altered QFR in the West Zone. Native gold has not been seen, either with a hand lens or a microscope. Moderately abundant limonite and copiapite (after primary pyrite?) in the QFR host rock are probably the causes of the yellow to rusty-orange colour in the West Zone, and pyrolusite and limonite after magnetite in the granodiorite the causes of the colours in the Discovery Zone.

The narrow chalcedonic quartz veins mapped in trenches DZT05-3, -4 and -5 are confined to approximately parallel shear zones. They pinch and swell, and do not appear to have continuity. By projection these quartz vein/shears would cross the curve in the road west of the 130m point on the baseline. Chalcedonic quartz chips one to two centimetres across can be seen in the soil in the road cut between 0m and about 75m on the baseline. These chips would have migrated down hill from veins crossing the curve of the road, as would have the larger, angular pieces of quartz which were grab sampled. The Discovery Zone lies immediately west of the Nicoamen River Fault. It can be inferred from the presence of granodiorite in the Discovery Zone that the volcanic/intrusive contact shown south of the Discovery Zone (Plate 1) should be moved at least 750m to the north.

The geology of the West Zone is described in Section 6.1.6. The original composition of the QFR has not been determined. It is composed of equigranular quartz and feldspar without mafic minerals. Locally it exhibits a gneissic texture. It should probably be called a granulite.

5.0 GEOCHEMISTRY

5.1 Introduction

Geochemical sampling on and surrounding the present NICOAMEN RIVER property area between 2003 and 2005 included the collection of stream sediment, soil and rock samples in a number of localities. Table 2 lists the sample types, sample numbers and number of samples collected pre- and post-staking.

Table 2: Geochemical Sample Summary

Sample type	Sample number series	Number of samples
Stream sediments	*MC-xxx*	*47*
Soils, recon	*MC-Sxxx*	*15*
Rocks, recon	*MC-Rxxx*	*16*
Stream sediments	MC-xxx	7
Soils, recon	MC-Sxxx	56
Soils, Main Grid	Grid coordinates	771
Rocks, recon and	MC-Rxxx	5
Trench	MC-Rxxx	15

Notes: Pre-staking samples are indicated by italics.

All samples were analysed for 36 elements. Complete results for these samples are listed on the Acme Analytical Laboratories Ltd. (Acme) Geochemical Analysis Certificates contained in Appendix B (Pre-Staking) and Appendix C (Post-Staking).

Also included are the Acme Assay Certificates for the selected rock samples submitted for assay. Tables in these Appendices list the samples, their UTM coordinates, brief descriptions and selected analytical results. Stream sediment and reconnaissance soil sample locations and numbers are plotted on Plate 2A; and Figures 5 and 6, and rock sample locations and numbers are shown on Plate 3A and Figures 5, 5A to 5E and 6.

5.2 Sampling and Analytical Procedures

Sample locations were marked in the field in two ways. Stream sediment and recon soil/rock sample locations were indicated using pink flagging and labelled Tyvek tags. The grid soil sample locations were marked with blue and orange flagging plus labelled Tyvek tags. UTM coordinates were determined for all of the reconnaissance sample locations using a handheld GPS instrument. The sample spacing on the grid was 50m, and the lines were nominally 200m apart. The start position of each grid cross line was determined with a GPS instrument, intermediate readings were taken on each line at approximately 500m intervals, and the intervening sample locations calculated by interpolation. All readings were taken using the NAD 27 datum; these were later converted to the NAD 83 datum for presentation. The samples were shipped to Acme in Vancouver, BC, for 36-element analysis by Inductively Coupled Plasma – Mass Spectrometry (ICP-MS).

Stream sediment samples (about 1.0kg) were collected from the finest silt/sand material available in the active channel, with minimum organic matter. Soil sample holes were dug with a mattock or rock hammer, and about 0.5 kg of material collected. In most cases the B horizon was sampled, but in a few rocky locations the C or combined B/C horizon was sampled. Stream sediment samples were collected in labelled 14cm x 27cm Hubco cloth bags; soil samples were collected in labelled 10cm x 15cm Kraft paper bags. Sample preparation at the laboratory involved drying at up to 60°C and sieving up to 100 grams from each sample to –80 mesh. Depending on the amount of –80 mesh material obtained, a 7.5, 15 or 30 gram subsample was cut and then leached with 180ml of 2-2-2 $HCl-HNO_3-H_2O$ solution at 95°C for one hour, followed by dilution to 600ml and 36 element ICP-MS analysis.

Rock sample individual weights varied from <1 - 3kgs for float samples to 2.5 - 10 kgs for bedrock (continuous chip or channel) samples. Float samples consisted of chips taken from one or two larger cobbles, or of several smaller fragments collected from an area of a few square metres. Individual samples were placed in labelled plastic bags, with a label also placed within the bag, and shipped to the Acme laboratory in Vancouver. At the lab each rock sample was crushed to 70% passing 10 mesh followed by pulverizing a 250gm split to 95% passing 150 mesh. A 30gm subsample of each was digested and analysed as above.

5.2.1 Quality Control Measures

All of the soil sampling was conducted by very experienced samplers, with spot field checks by the Qualified Person (QP). Stream sediment and rock samples were collected by or under the direct supervision of the QP. All samples were accounted for, packed with due diligence and personally delivered to the Acme laboratory by the QP or shipped to Acme by Greyhound Bus.

At the time site MC-187 was sampled, a bulk sample (~5kg) was also taken over 5m of stream bed and wet-sieved to collect more abundant fines for later (laboratory) generation of a –230 mesh subsample. This field-sieved sample (denoted with an S suffix in the sample number) was handled and analysed in the same fashion as the conventional smaller sized (unsieved) samples from which only –80 mesh subsamples were generated. The gold results from MC-187 and MC-187S were very similar – 2.0 ppb Au and 2.1 ppb Au, respectively. This technique was also tried on the MERIT property. At two locations (MC-127S, 2.3ppb Au; MC-138S, 11.8ppb Au) the gold results from the –230 mesh fractions were markedly better than those from the regular samples (MC-127, 1.1ppb Au; MC-138, 1.7ppb Au). At the other two locations the gold results for the field-sieved samples (-230 mesh fractions) were markedly lower. The additional time/cost of field sieving samples mitigated against using this technique on a regular basis.

There was no specific re-sampling of any of the previous soil sample sites on the property, but one soil sample, ZAK-S28 (27ppb Au), was taken within 4m of MC-S103 (26ppb Au). The first was at the top of a road-cut, the second at the bottom, in very similar material.

Acme runs standards and provides re-samples at varying intervals for each sample shipment analysed. A re-sample consists of analysing a second cut (subsample) from the same sample pulp (or occasionally reject portion), and is reported as a rerun (RE) or reject rerun (RRE) on the analysis certificate. In most cases there has been good reproducibility of results between the original subsamples and re-samples, with the exception of gold at the lower end of the detection range in some stream sediment and soil samples.

5.3 Stream Sediment and Soil Geochemical Results (Plates 2A, 2B, Figures 5 & 6)

5.3.1 Stream Sediment Samples (Plates 2A, 2B)

The attention of Almaden Minerals personnel was first drawn to this area by a 6 ppb Au result published for a Government Regional Geochemical Survey silt sample (92I811017) taken from Nicoamen River about 11 km (618940E, 5559692N, NAD83, UTM Zone 10) above its junction with the Thompson River . During the 2003 field season six reconnaissance stream sediment samples were taken from Nicoamen River and some of the tributaries in the same area as 92I811017; Almaden stream sediment samples MC-187 and MC-187S were obtained from the same site as the RGS sample. MC-187 and MC-187S returned 2.0 ppb Au and 2.1 ppb Au, respectively. The highest value, 2.8 ppb Au, came from sample MC-190, which was taken furthest upstream. Arsenic and antimony values also increased upstream.

Forty-one stream sediment samples were taken during 2004. Four of these were above the 2.2 ppb Au threshold – MC-285, 286, 287 and 290. MC-285 was taken from a tributary to the Nicoamen River, 1.7 km NNW of the Discovery Zone and west of the Nicoamen River Fault. The remaining samples were taken upstream of MC-190 and returned anomalous to high results in Au, As, Sb and Mo, which are common indicator elements for low sulphidation gold deposits. The anomalous drainage basin defined by these samples lies immediately east of the Discovery Zone and straddles the Nicoamen River Fault. The last sample taken during 2004, MC-310, was lost either in transit or at the laboratory.

Staking of the property began in October, 2004. During the 2005 field season seven stream sediment samples were taken in the southwestern corner of the property. Gold results were very low, but arsenic and antimony values were somewhat elevated.

Two areas of interest were indicated by the gold and arsenic results from the stream sediment sampling programs between 2003 and 2005. These are on the west side of Conversion Claim 511667 (West Zone) and in the centre of Conversion Claim 511671 (Discovery Zone). An area of potential interest lies upstream of stream sediment sample MC-285, about 1.7km northwest of the Discovery Zone and 1.0 to 1.5km northeast of the West Zone.

5.3.2 Reconnaissance Soil Samples (Plates 2A, 2B, Figures 5, 6)

Prospecting and reconnaissance soil sampling were carried out concurrently with stream sediment sampling. A soil grab sample was commonly taken from patches of soil or scree derived from altered rock. Any alteration noted in road cuts was similarly sampled.

Fifteen reconnaissance soil samples were taken before the property was staked. Ten of these were taken from two road cut colour anomalies, six from what is now called the Discovery Zone (MC-S101 – S106, Figure 5) at 25m intervals and four from the West Zone (MC-S97 – S100, Figure 6) at 10m intervals. All were very strongly anomalous in Au, As, Sb and Mo. The remaining five samples were from various patches of altered soil around the property. One was anomalous in As (MC-S107, 10.9ppm), and one was very anomalous in As (MC-S119, 234.3ppm).

Fifty-six soil samples (ZAK-Sxx series) were collected after the property was staked, during the 2005 exploration program. S1 to S15 (Plate 2A, 2B) were collected at 25m intervals from a road cut 600m northwest of the Discovery Zone (Discovery North area); only S1 returned a gold value above threshold (2.2ppb Au). S16 to S20 (Plate 2A, 2B) were taken at the same spacing along the road west of the Discovery Zone. S16, immediately west of MC-S106, and S20 were both highly anomalous in Au, As and Sb. A detailed soil sample line was established from south to north across the Discovery Zone (Figure 5). The southern 600m was sampled at 5m intervals (S21 to S30) with the exception of the road crossing. North of S30 the sample interval was 10m (S31 to S 38). Although most of the samples returned anomalous results for Au, three of the four strongly anomalous values (ZAK-S26, 10ppb Au; ZAK-S27, 14.7ppb Au; ZAK-S28, 27ppb Au) were given by the three samples collected over the projected location of the quartz-bearing shear exposed in DZT05-5 (ZAK-R15, 342.4ppb Au). All the soil samples are anomalous to highly anomalous in As and Mo; more than half are highly anomalous in Sb. The Mo anomaly is wider than the As anomaly which is wider than the Au and Sb anomalies.

The remaining reconnaissance soil samples were collected in the West Zone area. Two, ZAK-S39 and S40 (Plate 2A, 2B), were taken from exposures of rusty orange, iron-carbonate altered soil about 150m north of the Zone. Neither was anomalous in Au, As or Sb. The final 16 soil samplers were collected at approximately 25m intervals along the road-cut south of the Zone. Over half of these samples (ZAK-S43 to ZAK-S52) were generally strongly anomalous in Au, As, Sb and Mo.

The road-bank soil samples returned anomalous results in Au, As, Sb and Mo at the Discovery and West Zones, and south of the West Zone. The samples taken in the Discovery North area were uniformly low in these elements.

5.3.3 Coarse Grid Soil Samples (Figures 4A-4E)

A coarse grid soil sampling program over the southern part of the property was included in the 2005 exploration program (Figure 2). Twenty north-south lines at 200m spacing were soil sampled at 50m intervals, and 771 soil samples were collected. All were prepared as described in subsection 5.2, and analysed for 36 elements. The results for gold and the four chosen pathfinder elements are shown on Figures 4A to 4E. Histograms showing the distribution of Au, As, Sb, Hg and Mo were drawn using the analytical data from the 771 grid samples (Figures 3A, 3B).

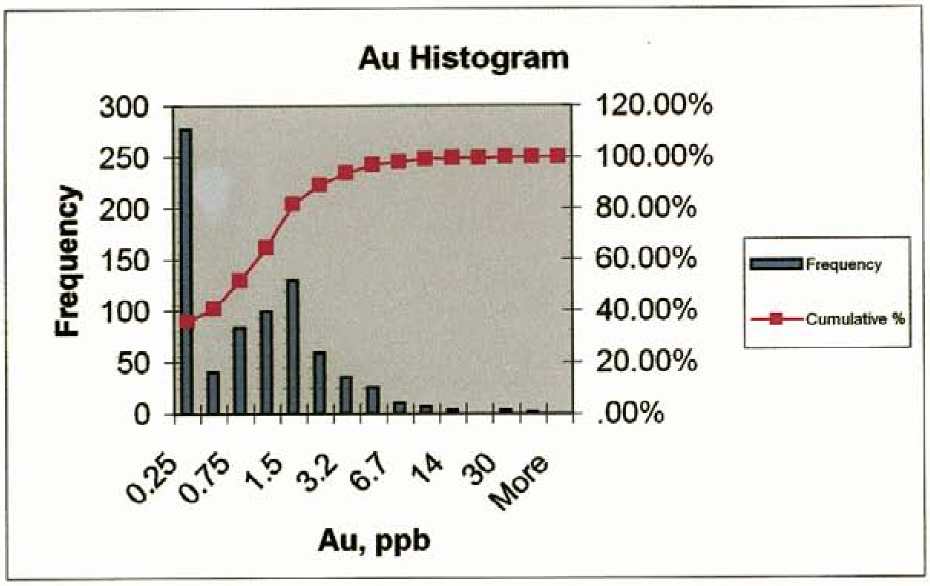
One large and four small discrete gold-in-soil anomalies can be defined, each containing one or more strongly anomalous gold values (Figure 4A). The four small anomalies are in the southwestern part of the grid, with a number of single station anomalies. Each of the small anomalies owes its prominence to one or two anomalous to strongly anomalous gold values, and they are single line anomalies. The western small anomaly lies immediately south of the West Zone; the road bank sample results (ZAK-S41 – S56) confirm the validity of this anomaly. The large gold-in-soil anomaly lies south and east of the Discovery Zone, and has a horseshoe shape. The anomaly crosses five sample lines, and is defined by numerous anomalous to strongly anomalous gold values.

High arsenic values cluster in four anomalous areas (Figure 4B). The western anomaly coincides with the gold anomaly south of the West Zone, and crosses two sample lines. The largest arsenic anomaly lies south and west of the Discovery Zone. The eastern third of this anomaly overlies the large gold anomaly. The remaining two high arsenic-in-soil areas are east of the Discovery Zone and overlie sections of the large gold anomaly.

There are seven discrete antimony anomalies. Two of these are single station, single line anomalies, one of which lies immediately east of the Discovery Zone. Of the other five anomalies, two are well defined but only weakly anomalous; one coincides with the Au/As anomalies south of the West Zone; and two coincide with the arsenic anomalies south and east of the Discovery Zone. The largest

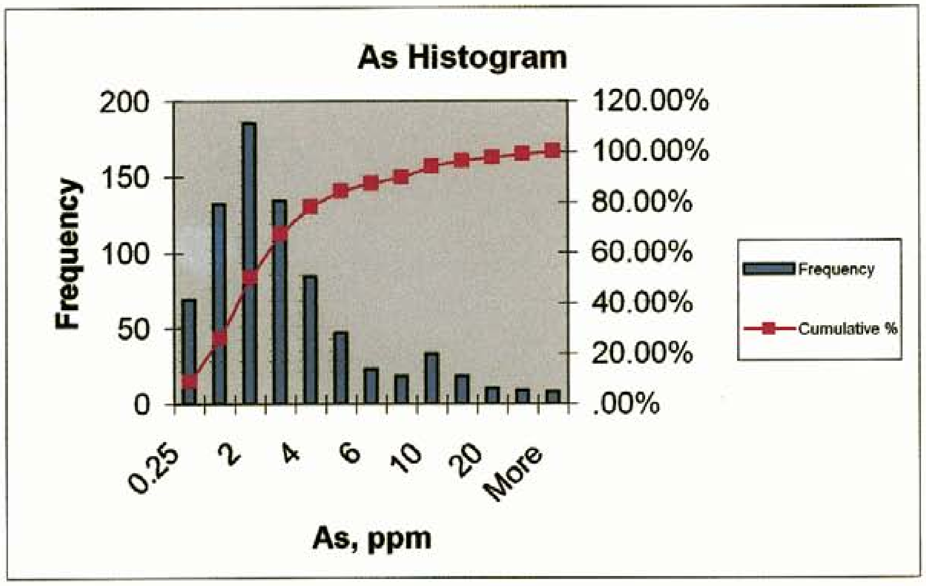
Nicoamen River Grid Au

Au, ppb	Frequency	Cumulative %
0.25	277	35.97%
0.5	40	41.17%
0.75	83	51.95%
1	99	64.81%
1.5	129	81.56%
2.2	59	89.22%
3.2	35	93.77%
4.6	25	97.01%
6.7	10	98.31%
9.6	6	99.09%
14	3	99.48%
20	0	99.48%
30	3	99.87%
42	1	100.00%
More	0	100.00%



Nicoamen River Grid As

As, ppm	Frequency	Cumulative %
0.25	69	8.96%
1	132	26.10%
2	185	50.13%
3	134	67.53%
4	84	78.44%
5	47	84.55%
6	23	87.53%
7	18	89.87%
10	33	94.16%
15	18	96.49%
20	10	97.79%
30	9	98.96%
More	8	100.00%



Nicoamen River Grid Sb

Sb, ppm	Frequency	Cumulative %
0.05	70	9.09%
0.1	328	51.69%
0.3	241	82.99%
0.4	39	88.05%
0.5	30	91.95%
0.6	13	93.64%
0.7	9	94.81%
0.9	17	97.01%
1.2	13	98.70%
1.6	4	99.22%
2.5	4	99.74%
More	2	100.00%

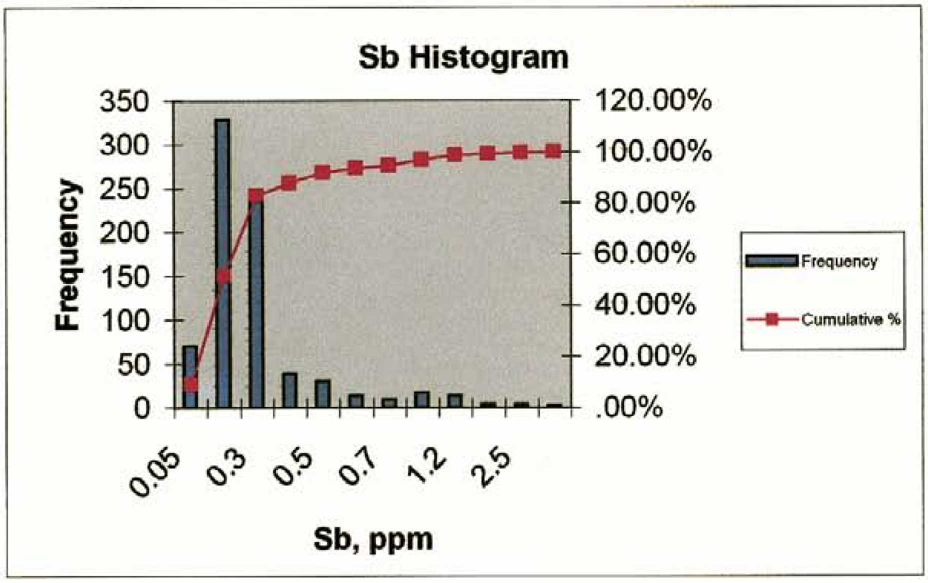
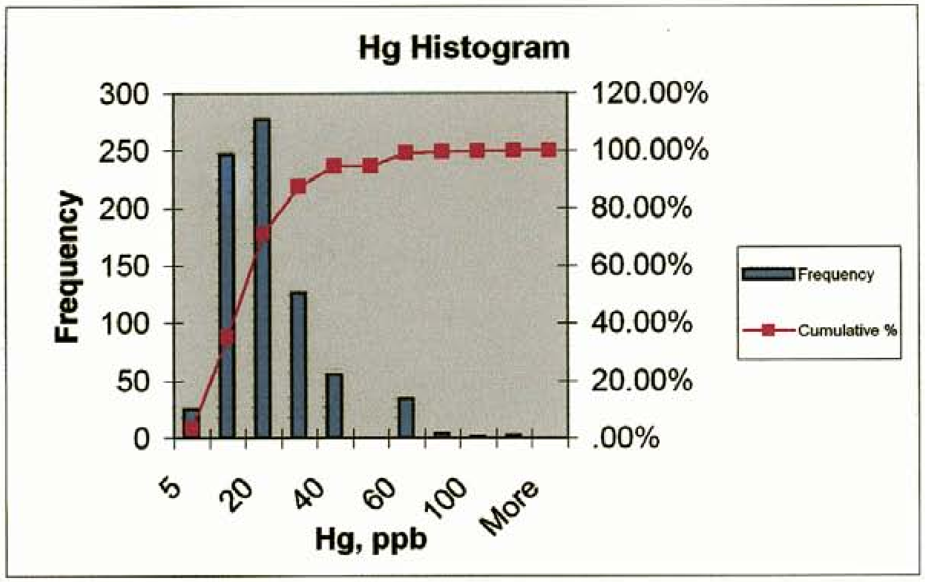


Figure 3A: Soil Sample Histograms - Au, As, Sb

Nicoamen River Grid Hg

Hg, ppb	Frequency	Cumulative %
5	25	3.25%
10	246	35.19%
20	277	71.17%
30	126	87.53%
40	55	94.68%
50	0	94.68%
60	34	99.09%
80	4	99.61%
100	1	99.74%
300	2	100.00%
More	0	100.00%



Nicoamen River Grid Mo

Mo, ppm	Frequency	Cumulative %
0.1	6	.78%
0.2	72	10.13%
0.3	178	33.25%
0.4	200	59.22%
0.5	129	75.97%
0.6	72	85.32%
0.7	34	89.74%
0.8	23	92.73%
0.9	12	94.29%
1.2	18	96.62%
1.6	13	98.31%
2.2	6	99.09%
More	7	100.00%

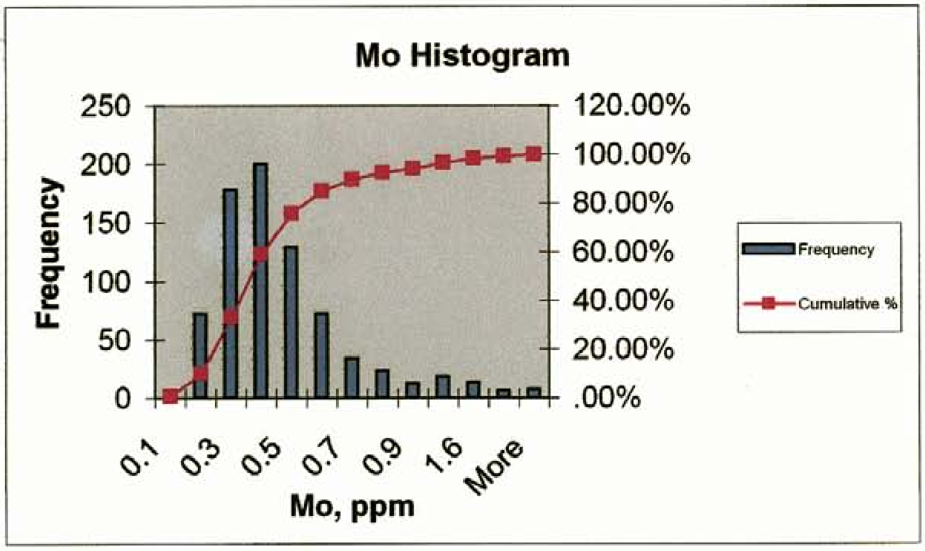
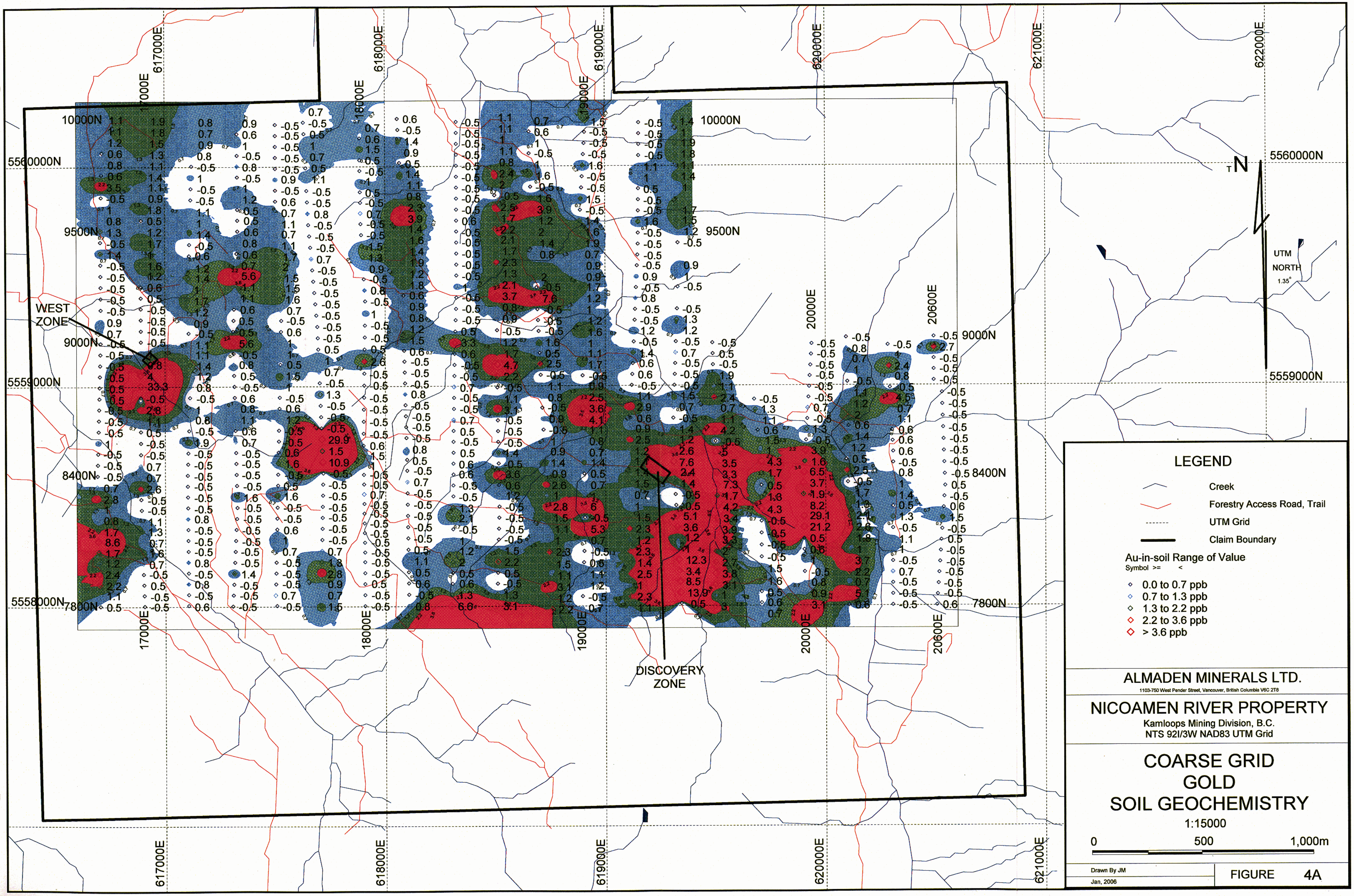


Figure 3B: Soil Sample Histograms - Hg, Mo


WEST ZONE
DISCOVERY ZONE
10000N
9500N
9000N
8400N
7800N
5560000N
5559000N
5558000N
617000E
618000E
619000E
620000E
621000E
622000E
17000E
18000E
19000E
20000E
20600E
UTM NORTH 1.35°
N
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Au-in-soil Range of Value
Symbol >= <
0.0 to 0.7 ppb
0.7 to 1.3 ppb
1.3 to 2.2 ppb
2.2 to 3.6 ppb
> 3.6 ppb
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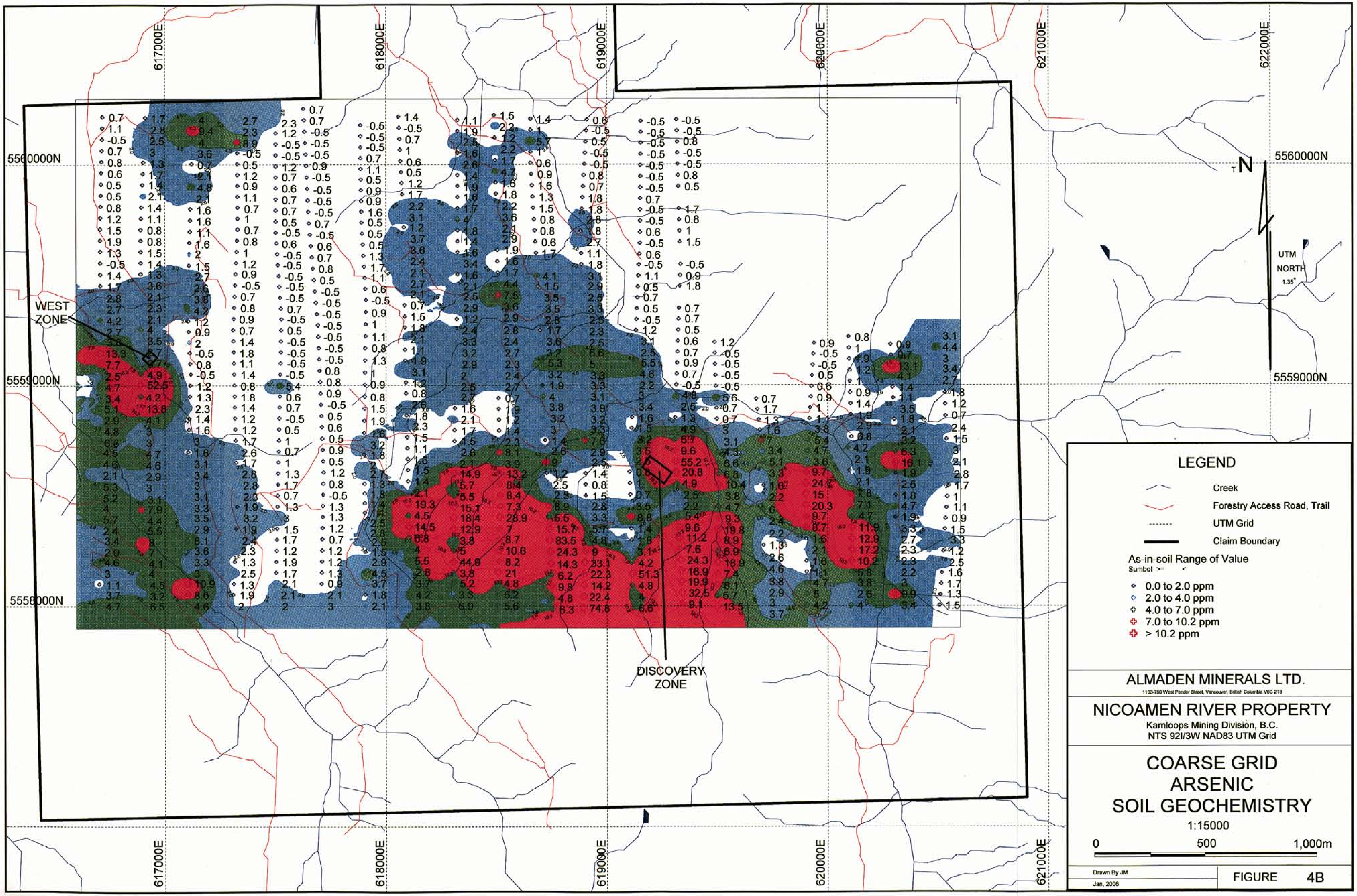
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
COARSE GRID GOLD SOIL GEOCHEMISTRY
1:15000
0 500 1,000m
Drawn By JM
Jan, 2006
FIGURE 4A


617000E
618000E
619000E
620000E
621000E
622000E
5560000N
5559000N
5558000N
WEST ZONE
DISCOVERY ZONE
N
UTM NORTH
1.35°
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
As-in-soil Range of Value
Symbol >= <
0.0 to 2.0 ppm
2.0 to 4.0 ppm
4.0 to 7.0 ppm
7.0 to 10.2 ppm
> 10.2 ppm
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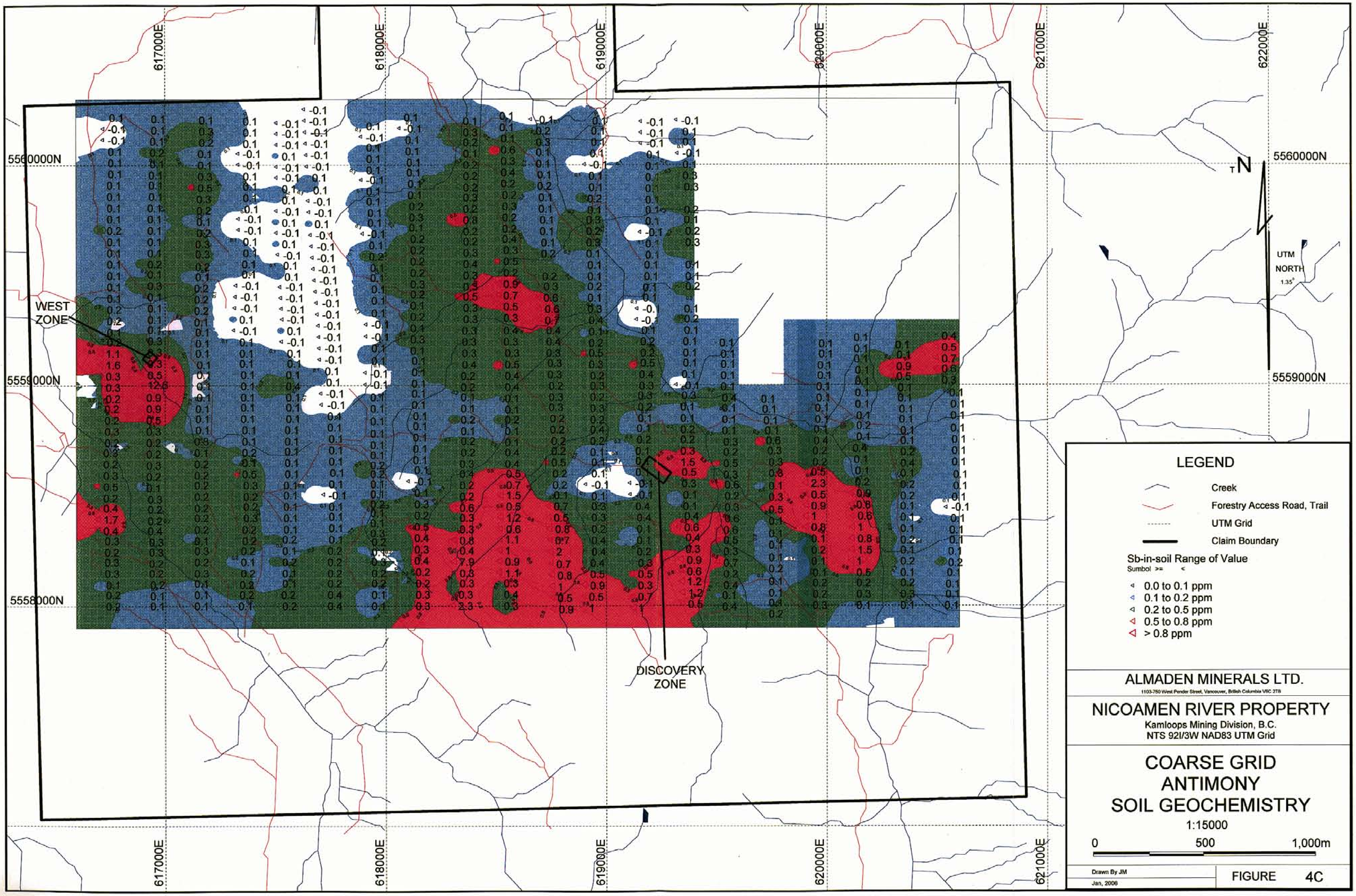
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
COARSE GRID
ARSENIC
SOIL GEOCHEMISTRY
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
FIGURE 4B



617000E
618000E
619000E
620000E
621000E
622000E
5560000N
5559000N
5558000N
WEST ZONE
DISCOVERY ZONE
N
UTM NORTH
1.35°
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Sb-in-soil Range of Value
Symbol >= <
0.0 to 0.1 ppm
0.1 to 0.2 ppm
0.2 to 0.5 ppm
0.5 to 0.8 ppm
> 0.8 ppm
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NTS 92I/3W NAD83 UTM Grid
COARSE GRID
ANTIMONY
SOIL GEOCHEMISTRY
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
FIGURE 4C

coincides with the largest arsenic anomaly, south and west of the Discovery Zone.

Mercury values are reported by Acme in ppm, but were converted to ppb for presentation purposes. There are a number of very irregular areas with elevated mercury values (Figure 4D). Three of these are peripheral to the West Zone Au/As/Sb anomaly. There is one in the southwest corner of the grid and one in the northeast corner. The remainder are either coincident with or peripheral to the largest As/Sb anomaly.

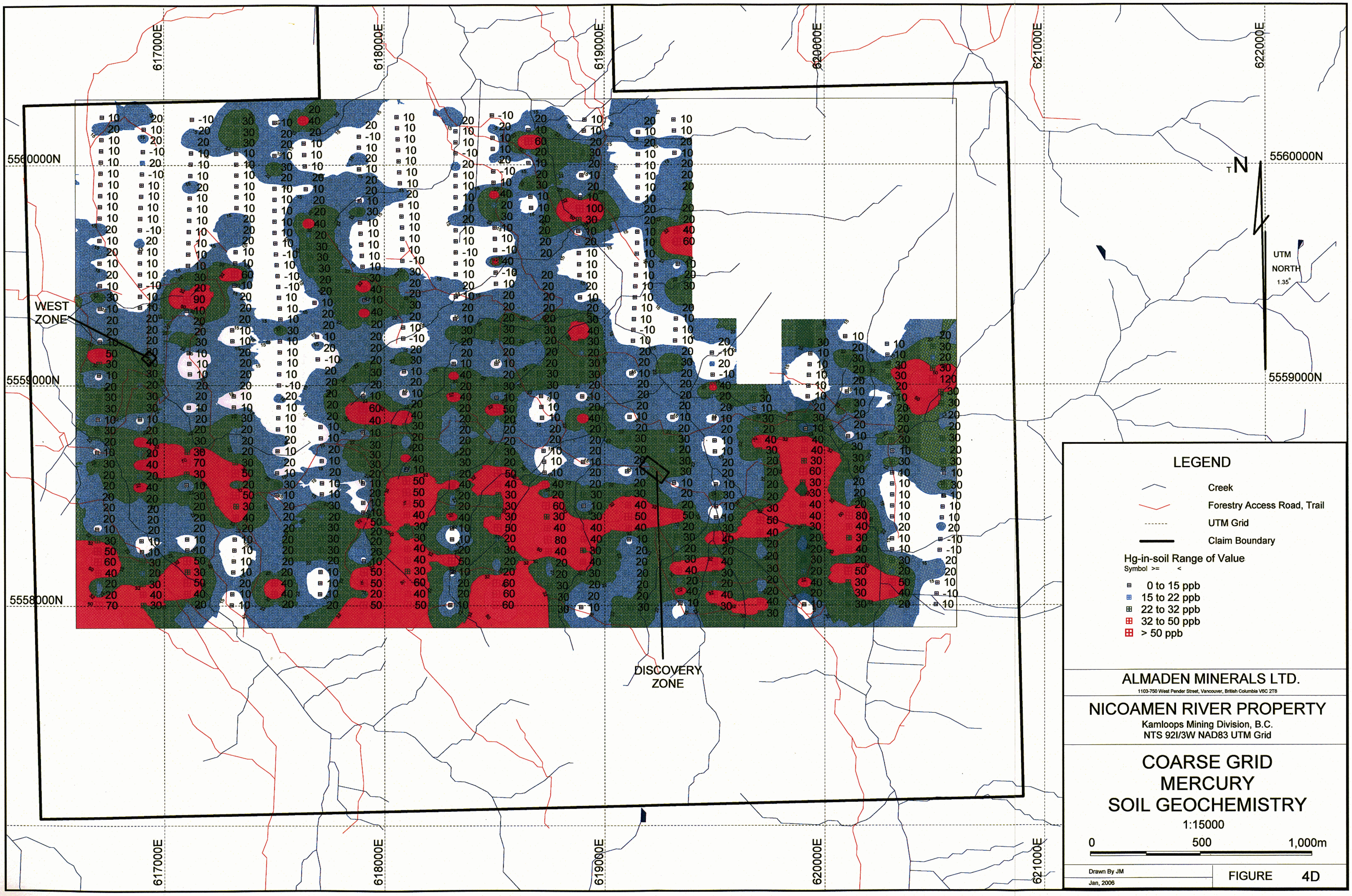
The molybdenum-in-soil results are ambiguous (Figure 4E). Three anomalous areas coincide with the soil Au/As/Sb anomalies east of the Discovery Zone, and one overlies a small Au/Sb anomaly between 18000E and 19000E on line 7800N. The large Mo anomaly in the southwest corner of the grid may be due to the Mount Lytton granodioritic intrusive complex which underlies this area.

5.4 Prospecting and Reconnaissance Rock Geochemical Results (Plates 3A, 3B)

Seventeen reconnaissance rock samples were collected before the property was staked. They were collected on road traverses, wherever altered or quartz-bearing float or outcrop was seen. The majority of the material sampled was sub-angular to sub-rounded float fragments containing quartz. Over 50% were collected within 600m of the Discovery Zone, and all but one returned greater than 250ppb gold. The highest value was 55526.1ppb gold, yielded by a composite sample (MC-R194) of two small pieces of iron stained chalcedonic quartz found 600m northwest of the Discovery Zone. A subsequent fire assay of the reject portion of this sample gave 64.87 g/t Au. Two samples of float were collected adjacent to the West Zone – MC-R186, 19.3 ppb Au, and MC-R187, 414.9 ppb Au.

Two samples returned in excess of 1000 ppb Au. Sample MC-R198, 1076 ppb Au, was from chalcedonic quartz vein float found 200m east of the combined Au/As/Sb anomaly south of the West Zone. Sample MC-R224 (1017 ppb Au) was a small piece of MnO-stained chalcedony found about 150m north of sediment sample MC-285 (2.4 ppb Au).

Since the property was staked another four reconnaissance rock samples were taken, three from near the Discovery Zone and one from the West Zone. The Discovery Zone samples returned 217, 690 and 1176 ppb Au; the West Zone sample gave 16.5 ppb Au. The majority of the quartz vein float sampled returned encouraging results.



617000E
618000E
619000E
620000E
621000E
622000E
5560000N
5559000N
5558000N
WEST ZONE
DISCOVERY ZONE
N
UTM NORTH
1.35°
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Hg-in-soil Range of Value
Symbol >= <
0 to 15 ppb
15 to 22 ppb
22 to 32 ppb
32 to 50 ppb
> 50 ppb
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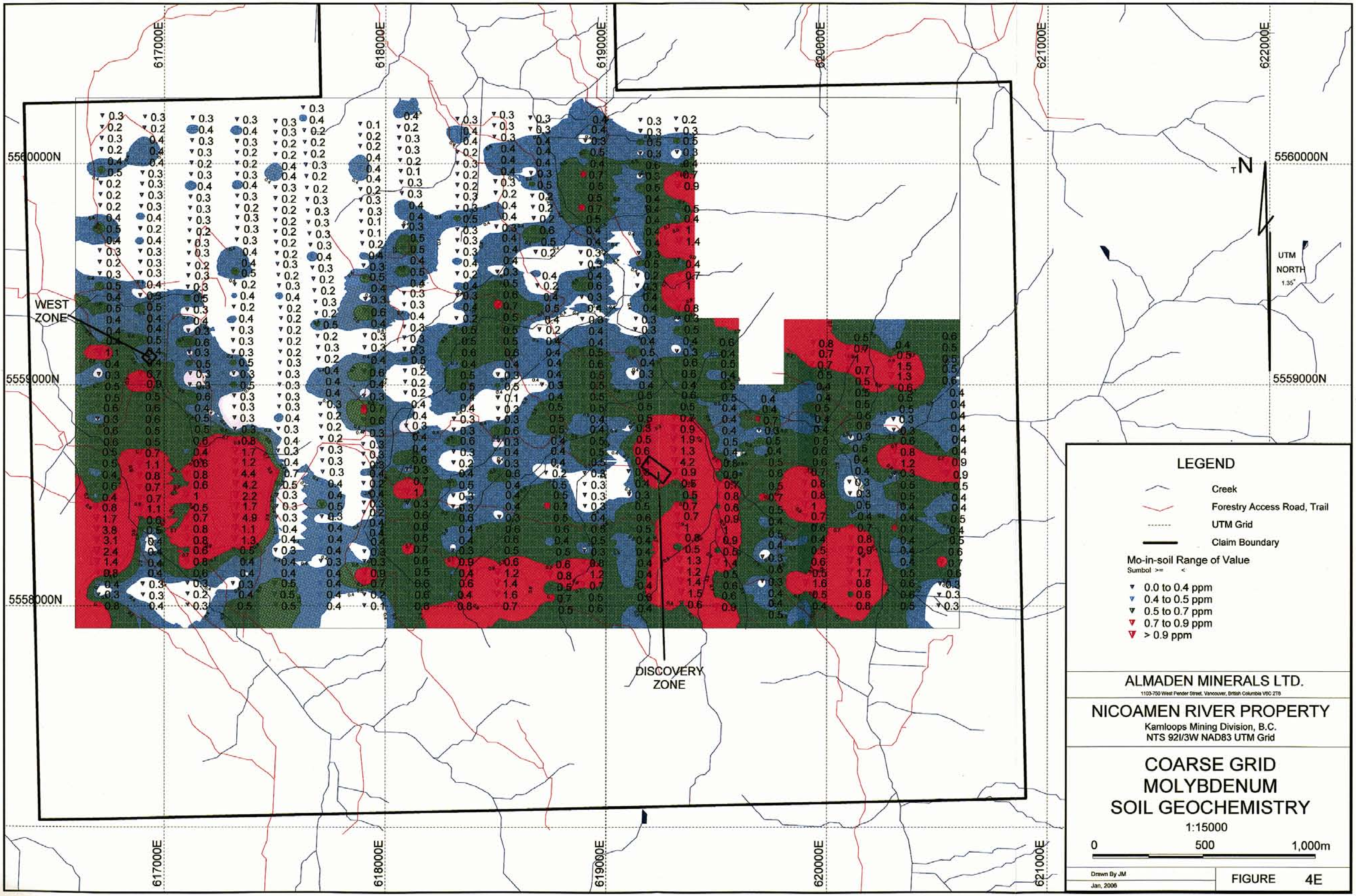
COARSE GRID
MERCURY
SOIL GEOCHEMISTRY
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
FIGURE 4D



617000E
618000E
619000E
620000E
621000E
622000E
5560000N
5559000N
5558000N
WEST ZONE
DISCOVERY ZONE
N
UTM NORTH
1.35°
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Mo-in-soil Range of Value
Symbol >= <
0.0 to 0.4 ppm
0.4 to 0.5 ppm
0.5 to 0.7 ppm
0.7 to 0.9 ppm
> 0.9 ppm
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NTS 92I/3W NAD83 UTM Grid
COARSE GRID
MOLYBDENUM
SOIL GEOCHEMISTRY
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
FIGURE 4E

6.0 PHYSICAL WORK

6.1 Hand trenching

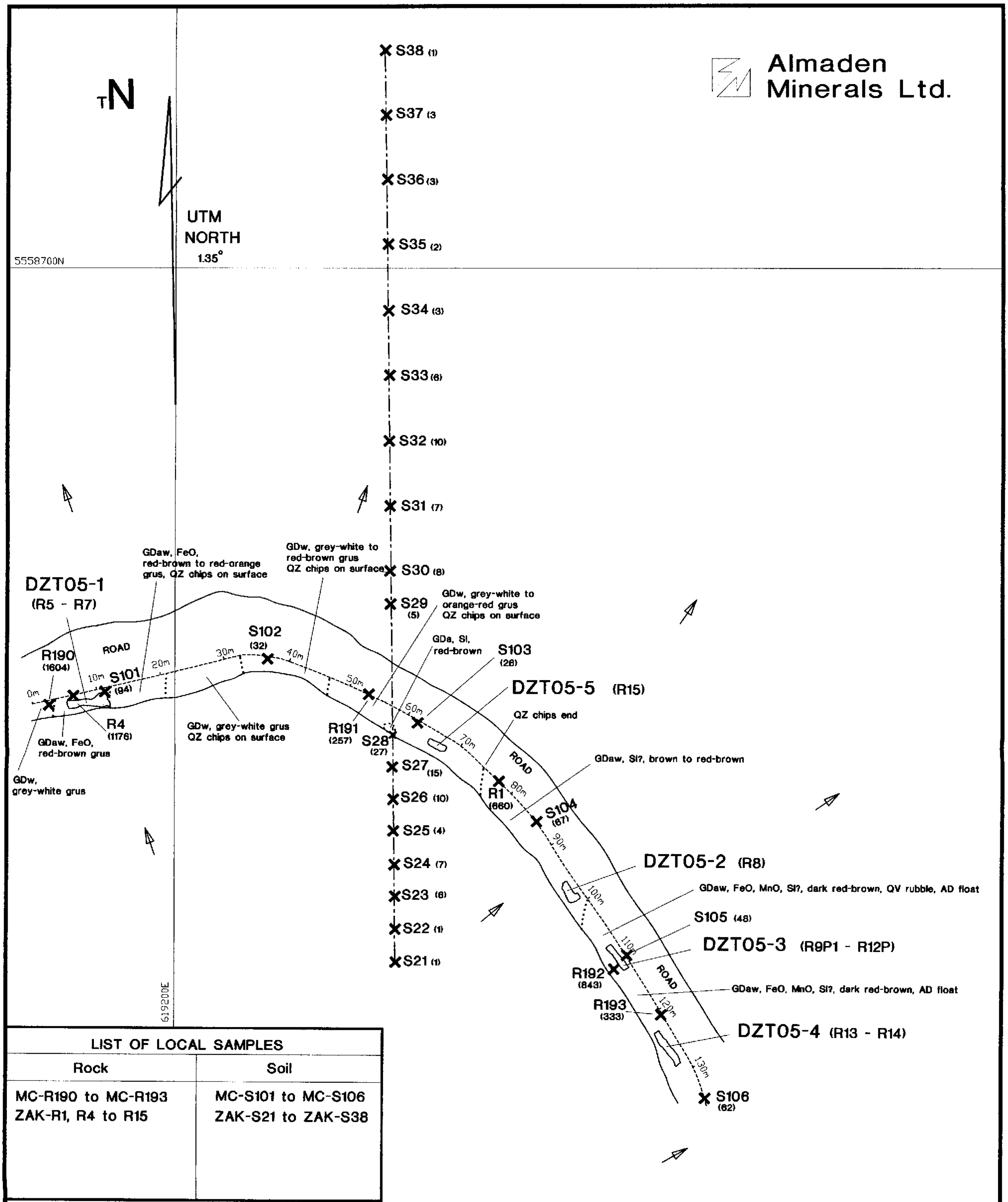
Physical work since the claims were staked in October, 2004 has consisted of hand trenching. Six trenches were excavated, five in the Discovery Zone and one in the West Zone. The relative locations of these trenched areas are shown on Plate 1 and Figures 2 and 5, and individually in greater detail on Figures 5A-5E and 6. Each of the trenches was excavated to bedrock. The exposures were thoroughly cleaned using whisk brooms and mapped before sampling. The sample intervals were determined from the geology of each exposure. A profile was drawn of each trench, after the sample intervals were decided, and the horizontal length of each sample determined. Each sample was taken using a hammer and moil or chisel to create a channel 5 – 7cm wide and up to 6cm deep for the length of each sample. Sample weights varied from 2.5kg to over 10kg. The physical work involved is summarised in Table 3. The analytical results for samples taken from each trench are listed on the drawing for each trench.

Table 3: Trench Summary

Trench No.	Length, m	Average Slope Width, m	Average Depth, m	Volume, m^3	# Rock Samples
DZT05-01	6.2	1.50	0.30	2.79	3
DZT05-02	3.3	2.13	0.16	1.12	1
DZT05-03	4.4	1.57	0.10	0.69	5
DZT05-04	5.9	1.80	0.20	2.12	2
DZT05-05	3.0	0.60	0.10	0.18	1
WZT05-01	25.2	1.75	0.16	7.06	3
Total	48.0			13.96	15

6.1.1 Trench DZT05-1 Results (Figure 5A)

Five trenches were excavated in the Discovery Zone to expose solid rock. Trench DZT05-1 was sited to explore the area near reconnaissance rock sample MC-R190 (1604 ppb Au) and soil sample MC-S101 (94 ppb Au). Red to orange-brown, FeO and MnO stained weathered granodiorite was exposed. Pale yellow-white, resistant, more silicious patches of granodiorite were found at each end of the trench. A channel was cut across the eastern patch which was highly silicious with chalcedonic quartz; three samples were taken (Figure 5A). The highest value was returned by ZAK-R6, 544 ppb Au, from weathered granodiorite containing pieces of irregular quartz below the silicious zone. An additional reconnaissance rock sample, ZAK-R4, was taken from a piece of angular granodiorite float containing chalcedonic quartz veins and masses. This sample gave 1176.1 ppb Au.



LIST OF LOCAL SAMPLES	
Rock	Soil
MC-R190 to MC-R193 ZAK-R1, R4 to R15	MC-S101 to MC-S106 ZAK-S21 to ZAK-S38

LEGEND

ROCK TYPES
- QV - Quartz Vein
- GD - Granodiorite
- AD - Andesitic Dyke
- XXa - Altered
- XXw - Weathered

MINERALOGY
- QZ - Quartz
- PY - Pyrite

ALTERATION
- SI - Silica
- MnO - Pyrolusite
- FeO - Hematite +/- limonite

SYMBOLS
- Geological boundary
- 10m X Grab sample location
- Baseline
- Detailed soil line
- Downslope direction
- DZT05-1 (R5-R8) Trench number with sample numbers

Trench details shown on Figures 5A to 5E

SAMPLES
- Rxxx - Rock Sample Number (ZAK- , MC- omitted)
- Sxxx - Soil Sample Number (ZAK-, MC- omitted)
- (94) - Au value, rounded to nearest 1 ppb

ANALYTICAL NOTES

Initial analysis by ICP-MS, on 30gm subsample. Fire assay on 29.2gm (1AT) subsample for samples that returned >1000ppb Au by ICP-MS. Gold values rounded to nearest 1 ppb. Sample length is horizontal distance.

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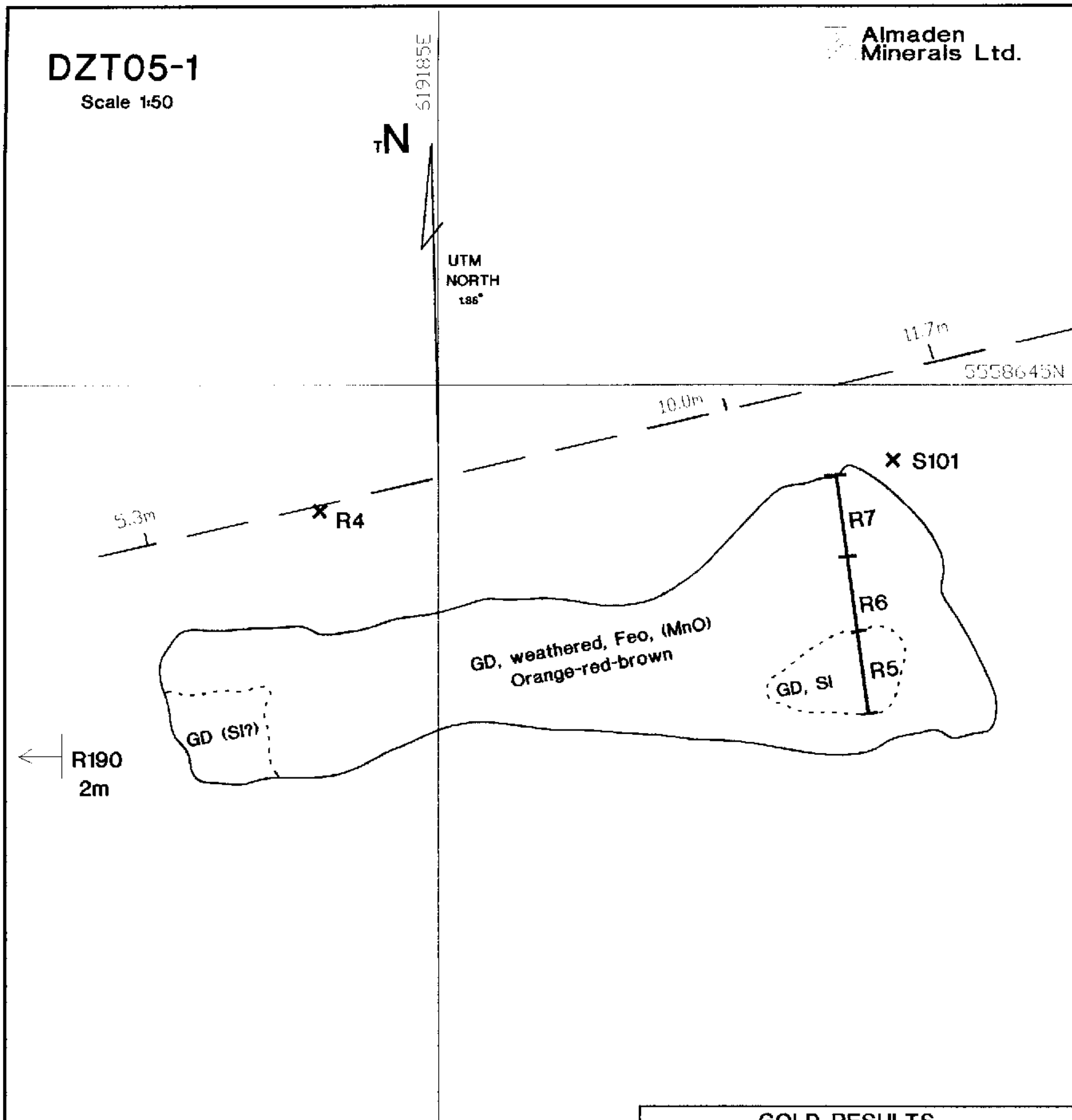
DISCOVERY ZONE GEOLOGY, TRENCH & LOCAL SAMPLE LOCATION MAP

SCALE 1:600

0 5 10 15 20 25 m

Drawn by JH JAN. 2006	Figure 5



LEGEND

ROCK TYPES
QV - Quartz Vein
GD - Granodiorite
XXa - Altered

MINERALOGY
QZ - Quartz
PY - Pyrite
- Quartz Zone

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite
+/- limonite

ABBREVIATIONS
BX - Breccia

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
Contact strike & dip
Jointing strike & dip
Fracture strike & dip
Geological contact
Channel sample location
Grab sample location
Baseline

SAMPLES
Rxxx - Rock Sample Number (ZAK-, MC- omitted).
Sxxx - Soil Sample Number (MC- omitted)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample. Gold values rounded to nearest 1 ppb. Sample length is horizontal distance.

GOLD RESULTS

Sample No.	Length (m)	Au (ppb)
R190	Grab	1604
S101	Grab	94
R4	Grab	1176
R5	0.85	360
R6	0.80	544
R7	0.65	95

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NTS 92I/3W NAD83 UTM Grid

DISCOVERY ZONE
TRENCH DZT05-1 PLAN

Drawn by JH
FEB. 2006

Figure 5A

6.1.2 Trench DZT05-2 Results (Figure 5B)

Trench DZT05-2 was cleared to better expose patches of resistant-to-weathering, red to orange-brown altered (silicified?) granodiorite. Granitic texture and biotite are still visible. The feldspars appear chalky, possibly due to incipient kaolinization. Channel sample ZAK-R8 was cut across the most silicious section (chalcedonic quartz?), Figure 5B. This sample yielded 498 ppb Au.

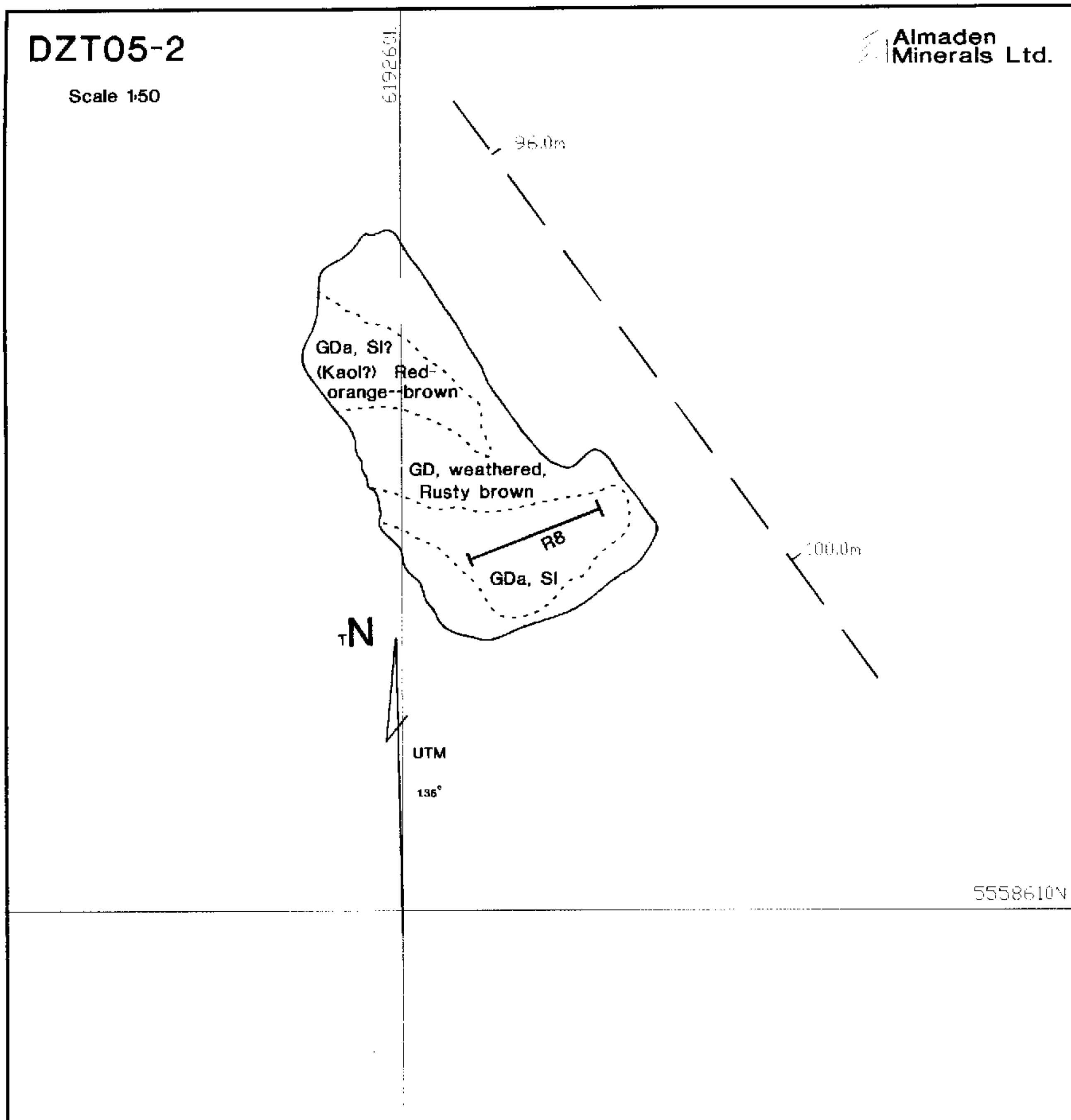
6.1.3 Trench DZT05-3 Results (Figure 5C)

This trench was dug between soil sample MC-S105 (48 ppb Au) and reconnaissance rock sample MC-R192 (843 ppb Au). The rock sample consisted of 12 pieces of silicious granodiorite and chalcedonic vein quartz. The trench exposes brown to red-brown weathered granodiorite cut by a shear zone 10 to 15cm wide striking 284°/20°S. The shear zone contains a banded chalcedony vein. A second, 1cm quartz vein lies 5-10cm above the main vein near the centre of the exposure. There is an elongate patch of altered, MnO stained silicious granodiorite (?) below the main vein in the same area.

Panel sample ZAK-R9P was established at the west end of the quartz zone. This panel measured 60cm horizontally (along the zone) by 30 cm on the sloping surface (20cm horizontally). The volume of material collected by chipping over the surface area of the east end of this panel dictated that it be divided in two – samples ZAK-R9P1 and R9P2. Two panels, 45cm horizontally by 30cm on the slope, were sampled starting 2m east of ZAK-R9P2 (Figure 5C). These were panel samples ZAK-R11P and R12P. Sample ZAK-R10 comprised multiple grabs along the quartz vein between the panel samples. The analytical results are presented on Figure 5C. After the 36-element ICP-MS analysis another cut of the pulp from each sample was taken for assay. The assay results are an average 25% higher than the ICP-MS results.

6.1.4 Trench DZT05-4 Results (Figure 5D)

Trench DZT05-4 was excavated to expose a narrow quartz vein seen in altered granodiorite in the road bank. Three narrow shears were uncovered, two of which contain quartz veins. The shears cut a block of yellow-grey silicious granodiorite with FeO and MnO stained patches. The granitic texture is almost obliterated. This altered block is hosted by recessively weathered, reddish to reddish-brown slightly silica altered granodiorite. The southern shear/vein pinches and swells between 1cm and 5cm in 20cm horizontally, the middle shear/vein is 5cm thick while the northern shear does not host a vein. The latter is 2-3cm wide at the western end, widening to 10-15cm at the eastern end. It contains grey-white to yellow-orange granular ankerite(?) altered granodiorite. North of the shear is strongly clay altered decomposed/weathered granodiorite. The first channel sample included the silicious granodiorite and the two quartz veins while the second consisted of the major shear and weathered granodiorite. The second,



LEGEND

ROCK TYPES
QV - Quartz Vein
GD - Granodiorite
XXa - Altered

MINERALOGY
QZ - Quartz
PY - Pyrite
- Quartz Zone

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite +/- limonite

ABBREVIATIONS
O/C - Outcrop
S/C - Subcrop
O/B - Overburden
BX - Breccia

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
85° Contact strike & dip
85° Jointing strike & dip
85° Fracture strike & dip
Geological contact
Channel sample location
Grab sample location
Baseline

SAMPLES
Rxxx - Rock Sample Number (ZAK- omitted)
Sxxx - Soil Sample Number (MC- omitted)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample.
Gold values rounded to nearest 1ppb.
Sample length is horizontal distance

GOLD RESULTS

Sample No.	Length (m)	Au (ppb)
R8	1.10	498

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ZAK PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid

DISCOVERY ZONE TRENCH DZT05-2 PLAN

0 0.5 1.0 1.5 2.0
Metres

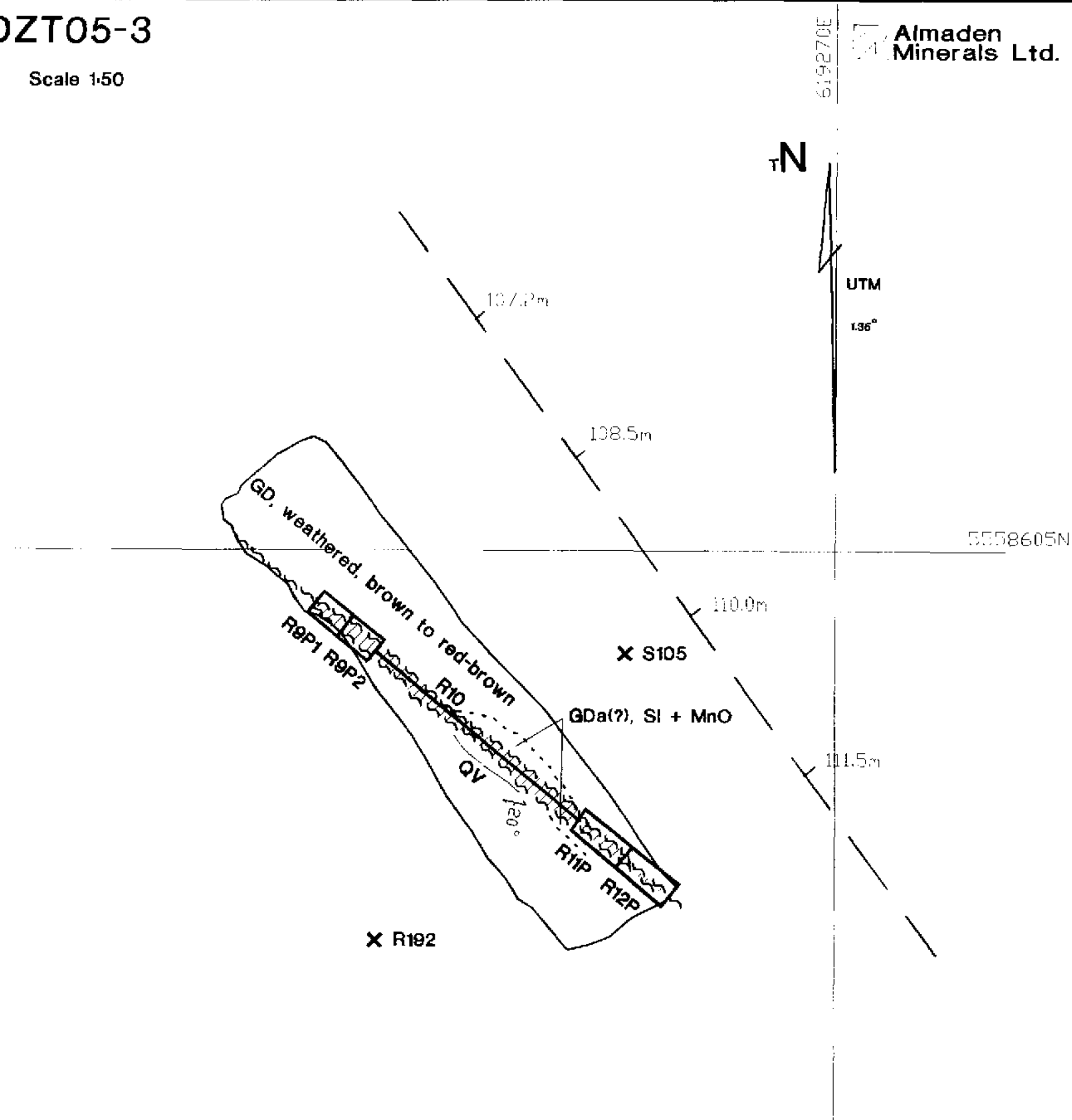
Drawn by JH
JAN. 2006

Figure 5B

DZT05-3

Scale 1:50

Almaden Minerals Ltd.



GOLD RESULTS			
Sample No.	Length or panel dim. (m)	Au (ppb)	Au (g/t)
S105	Grab	48	
R192	Grab	843	
R9P1	0.30 x 0.30	728	0.86
R9P2	0.30 x 0.30	961	1.16
R10	2.00	1828	2.27
R11P	0.30 x 0.45	893	1.17
R12P	0.30 x 0.45	909	1.18

LEGEND

ROCK TYPES
QV - Quartz Vein
GD - Granodiorite
XXa - Altered

MINERALOGY
QZ - Quartz
PY - Pyrite
- Quartz Zone

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite
+/- limonite

ABBREVIATIONS
BX - Breccia

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
85° Contact strike & dip
85° Jointing strike & dip
85° Fracture strike & dip
Geological contact
Channel sample location
Grab sample location
Baseline

SAMPLES
Rxxx - Rock Sample Number (ZAK- , MC- omitted).
Sxxx - Soil Sample Number (MC- omitted)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample. Gold values rounded to nearest 1 ppb. Sample length is horizontal distance.

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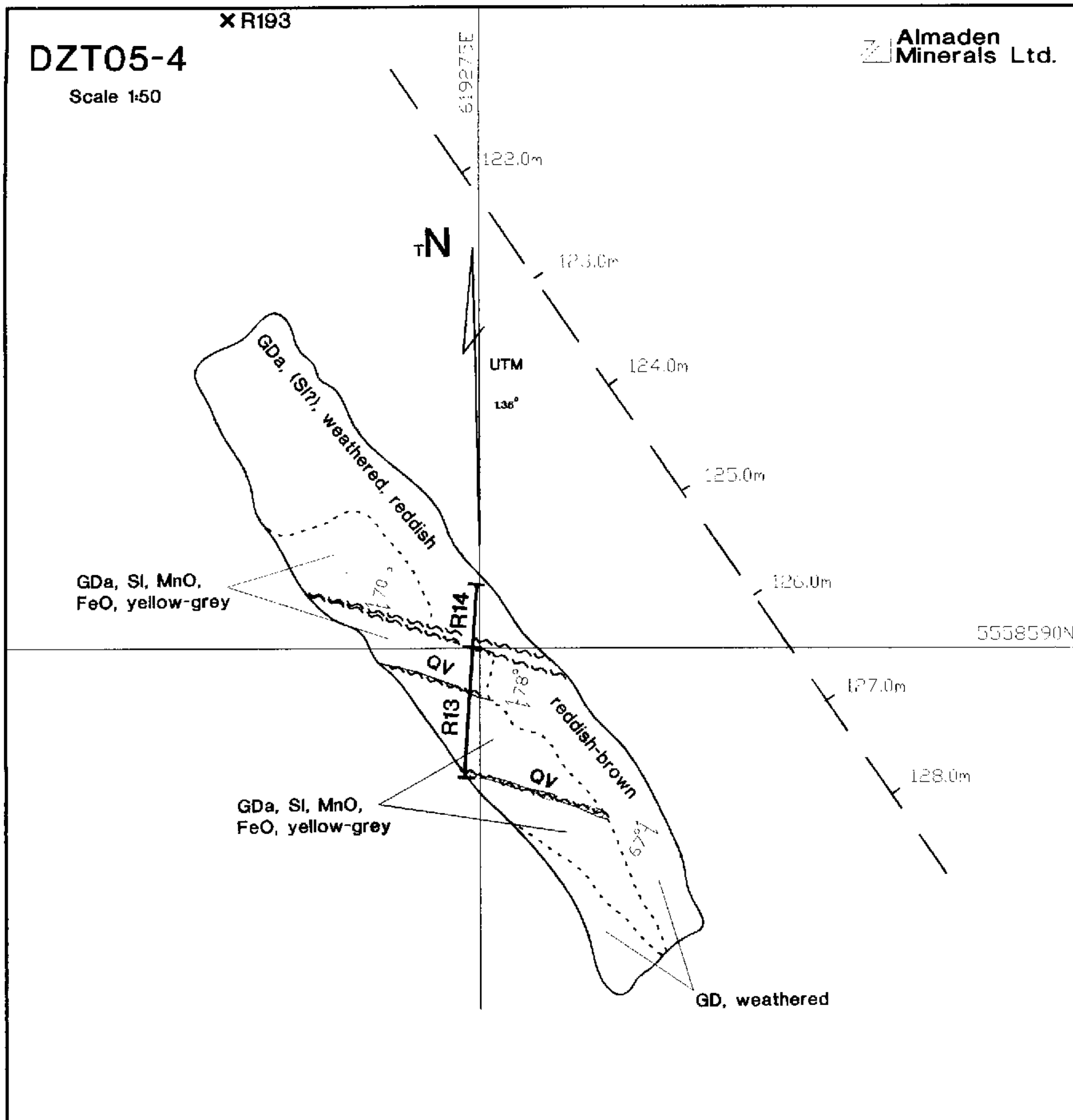
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid

DISCOVERY ZONE
TRENCH DZT05-3 PLAN

Drawn by JH
JAN. 2006

Figure 5C



LEGEND

ROCK TYPES
QV - Quartz Vein
GD - Granodiorite
XXa - Altered

MINERALOGY
QZ - Quartz
PY - Pyrite
- Quartz Zone

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite +/- limonite

ABBREVIATIONS
O/C - Outcrop
S/C - Subcrop
O/B - Overburden
BX - Breccia

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
65° Contact strike & dip
85° Jointing strike & dip
85° Fracture strike & dip
Geological contact
Channel sample location
Grab sample location
Baseline

SAMPLES
Rxxx - Rock Sample Number (ZAK- omitted)
Sxxx - Soil Sample Number (MC- omitted)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample.
Gold values rounded to nearest 1ppb.
Sample length is horizontal distance

GOLD RESULTS

Sample No.	Length (m)	Au (ppb)	Au (g/t)
R193	Grab	333	
R13	1.00	497	0.58
R14	0.50	1046	1.16

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Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid

DISCOVERY ZONE
TRENCH DZT05-4 PLAN

Drawn by JH
JAN. 2006

Figure 5D

R14, carried twice as much gold as the first (Figure 5D). Fire assay of the pulps reported 12.7% more gold than the ICP-MS analyses.

6.1.5 Trench DZT05-5 Results (Figure 5E)

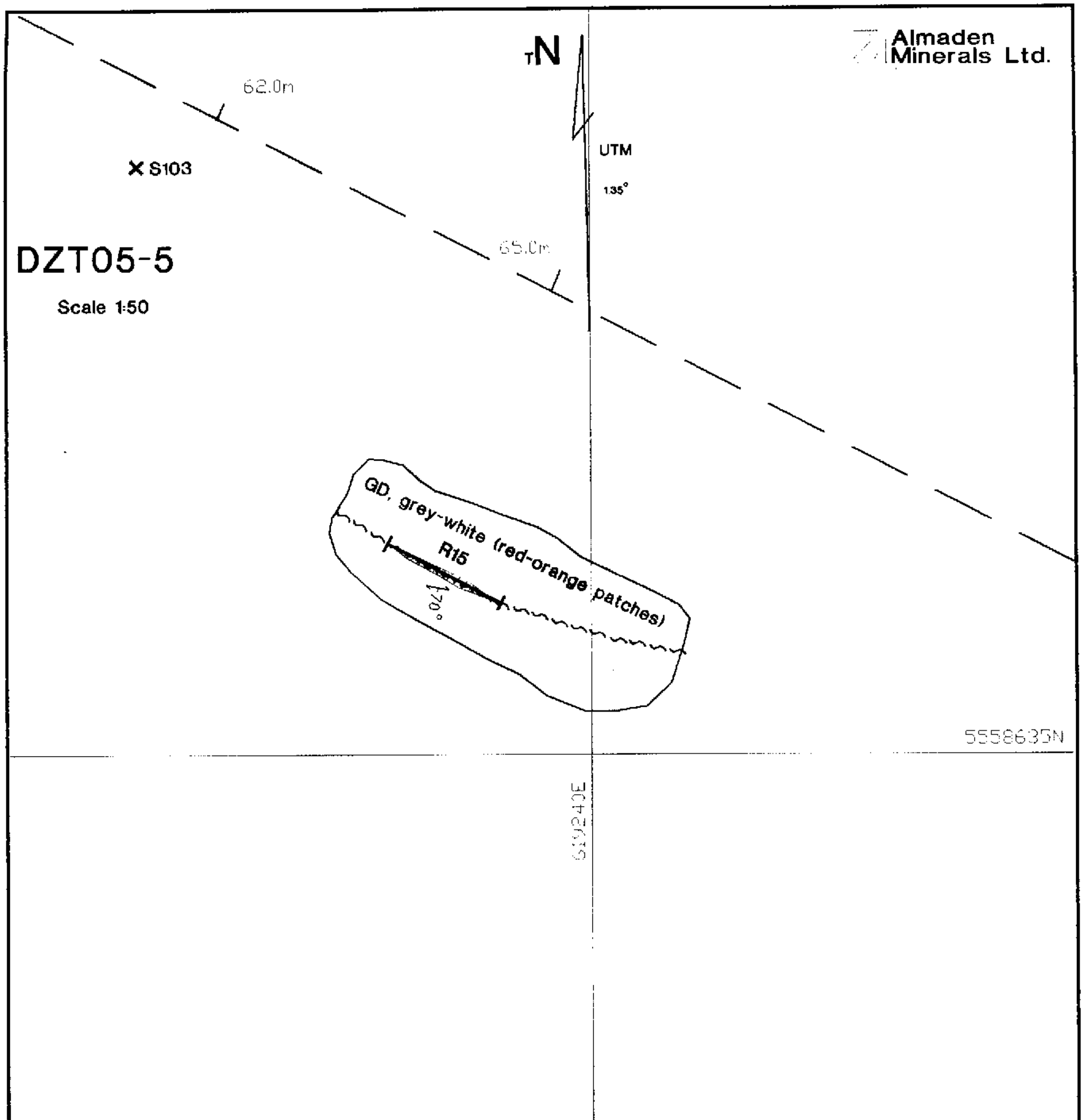
A quartz-filled shear was noted in the road bank while mapping the road cut. This was further exposed by Trench DZT05-5. The attitude of the 1-2cm wide, 1m long shear/vein (282°/70°S) is semi-parallel to the average attitude of the shears and veins mapped locally. ZAK-R15, a grab sample over the length of the quartz exposure, returned 342 ppb Au. The host rock of the shear is grey-white granodiorite with reddish-orange patches.

6.1.6 Trench WZT05-1 Results (Figure 6)

The West Zone was first noted as a yellow to orange colour anomaly in a road cut on the west side of the property. Reconnaissance rock and soil samples were taken during the 2004 exploration program; these returned low but interesting values in gold and highly anomalous results for arsenic and antimony. In September, 2005, trench WZT05-1 was excavated to expose the bedrock in this road cut. A quartzofeldspathic rock (QFR) of unknown origin was found. At the north end of the trench this is white on the weathered surface and slightly silicious with trace pyrite and limonite in fractures. South of a shear the QFR has a gneissic fabric with thin quartz lenses parallel to the fabric. The white colour may be due to kaolinite or argillic alteration. To the south the colour changes gradually through yellow-orange to brown orange to orange with increasing limonite, copiapite and pyrolusite. South of the gneissic section the QFR is brecciated, altered (silica, minor ankerite?) and possibly metamorphosed. The original rock may have been a rhyolite, a tuff or fine grained intrusive rock.

Between 7m and 14m on the baseline is a strongly sheared section of yellow to yellow-orange QFR with patchy argillic and silica alteration. At 11.7m there is a 10cm area of highly silicious QFR with minor pyrite and arsenopyrite (sample WZT-R3). From 17m to 25m is an orange-brown faulted zone containing scattered blocks to 50x50cm of silicious QFR with 1 – 2% pyrite and minor ankerite, and MnO on fractures. The largest block, at 22m, looks like quartzite with ankerite veinlets. The north and south contacts of this fault zone are at 150°/45°W and 132°/57°W, respectively.

Sample WZT-R1 was a grab from very locally derived silicious QFR rubble with dark grey patches and 1 – 3% pyrite and arsenopyrite. This was surrounded by orange-yellow ankeritic QFR. Locally highly silicious dark grey material has replaced QFR. Sample WZT-R2 was taken from a channel cut across silicious QFR containing minor pyrite.



LEGEND

ROCK TYPES
QV - Quartz Vein
GD - Granodiorite
XXa - Altered

MINERALOGY
QZ - Quartz
PY - Pyrite
- Quartz Zone

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite
+/- limonite

ABBREVIATIONS
BX - Breccia

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
85° Contact strike & dip
85° Jointing strike & dip
85° Fracture strike & dip
Geological contact
Channel sample location
Grab sample location
10.0m Baseline

SAMPLES
Rxxx - Rock Sample Number (ZAK- , MC- omitted).
Sxxx - Soil Sample Number (MC- omitted)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample. Gold values rounded to nearest 1 ppb. Sample length is horizontal distance.

GOLD RESULTS

Sample No.	Length (m)	Au (ppb)
S103	Grab	26
R15	1.00	342

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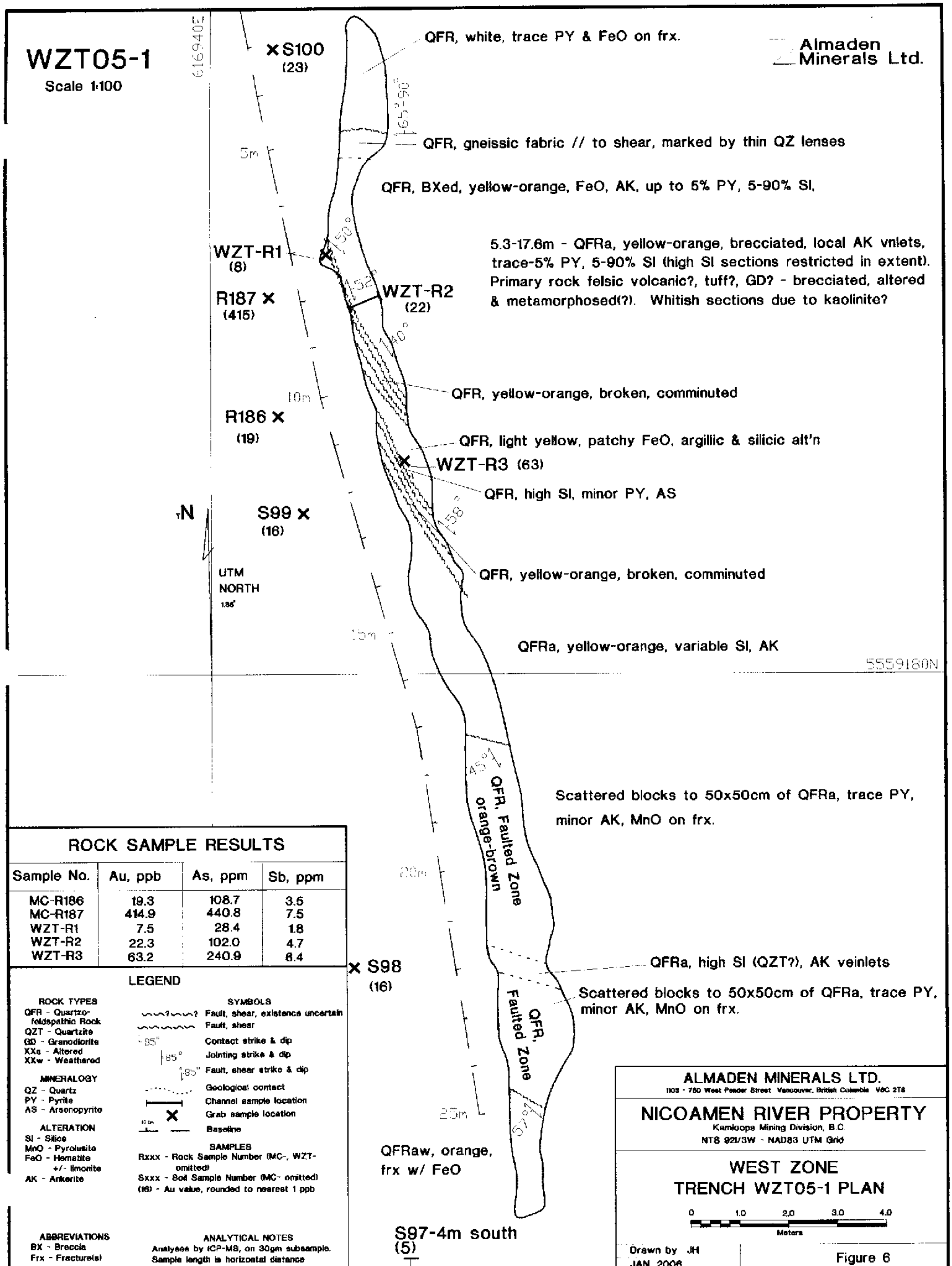
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid

DISCOVERY ZONE
TRENCH DZT05-5 PLAN

0 0.5 1.0 1.5 2.0
Metres

Drawn by JH
JAN. 2006

Figure 5E



ROCK SAMPLE RESULTS

Sample No.	Au, ppb	As, ppm	Sb, ppm
MC-R186	19.3	108.7	3.5
MC-R187	414.9	440.8	7.5
WZT-R1	7.5	28.4	1.8
WZT-R2	22.3	102.0	4.7
WZT-R3	63.2	240.9	6.4

LEGEND

ROCK TYPES
QFR - Quartzo-feldspathic Rock
QZT - Quartzite
GD - Granodiorite
XXa - Altered
XXw - Weathered

MINERALOGY
QZ - Quartz
PY - Pyrite
AS - Arsenopyrite

ALTERATION
SI - Silica
MnO - Pyrolusite
FeO - Hematite +/- limonite
AK - Ankerite

SYMBOLS
Fault, shear, existence uncertain
Fault, shear
Contact strike & dip
Jointing strike & dip
Fault, shear strike & dip
Geological contact
Channel sample location
Grab sample location
Baseline

SAMPLES
Rxxx - Rock Sample Number (MC-, WZT- omitted)
Sxxx - Soil Sample Number (MC- omitted)
(16) - Au value, rounded to nearest 1 ppb

ABBREVIATIONS
BX - Breccia
Frx - Fracture(s)

ANALYTICAL NOTES
Analyses by ICP-MS, on 30gm subsample.
Sample length is horizontal distance

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NICOAMEN RIVER PROPERTY
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WEST ZONE
TRENCH WZT05-1 PLAN

0 1.0 2.0 3.0 4.0
Meters

Drawn by JH
JAN. 2006

Figure 6

7.0 PERSONNEL & CONTRACTORS

Company Personnel	Work Period (2005)	Field Time – Days (Includes travel)
E.A. Balon, P.Geo North Vancouver, BC Project Manager (QP) Prospector/Sampler	..................Sep. 08 – 25	17.0
Contract Personnel		
J.L. Tindle Whistler, BC Sampler/Prospector	..................Sep. 08 – 25	18.0
E.N. MacKenzie Vancouver, BC Sampler/Prospector	..................Sep. 08 – 22	14.0
J.J. Hylands, P.Eng (Hylands Geol. Services Ltd.) West Vancouver, BC Consulting Geologist	..................Sep. 19 – 24	5.0
TOTAL		54.0 days

8.0 STATEMENT OF COSTS

(All items rounded to the nearest dollar; expenditures incurred for the assessment period October 20, 2004 to October 20, 2005.)

SALARY AND BENEFITS (E.A. Balon)	$ 4,000
CONTRACT FIELD SERVICES	
Hylands Geological Services Ltd	1,500
Eric MacKenzie	3,500
Jan Tindle	4,500
SAMPLE PREPARATION & GEOCHEMICAL ANALYSES (Acme Analytical Laboratories Ltd.)	11,813
TRUCK RENTALS, FUEL & MISCELLANEOUS TRAVEL EXPENSES	2,260
ACCOMMODATION & FOOD	2,430
COMMUNICATIONS (Telephone & Courier)	58
GENERAL FIELD SUPPLIES	784
MAPS, PHOTOS & REPRODUCTIONS	15
TOTAL EXPENDITURES (Exclusive of Report Preparation)	$ 30,860

9.0 STATEMENT OF QUALIFICATIONS

I, Edward A. Balon, of North Vancouver, British Columbia, hereby certify that:

1. I am a prospector and geological/mining technician residing at 501-250 West First Street, North Vancouver, BC, and am employed by Almaden Minerals Ltd. of 1103-750 West Pender Street, Vancouver, British Columbia, V6C 2T8.

2. I am a graduate of Northern College – Haileybury School of Mines, Haileybury, Ontario (1970), with a diploma in Mining Engineering Technology (integrated Geology, Mining and Metallurgy)

3. I have attended numerous Continuing Education Courses in Geoscience since 1970, including Exploration Geochemistry at the University of British Columbia, Vancouver, BC, in 1984/1985.

4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), license number 20265, since 1993.

5. I have worked continuously in mineral exploration for thirty-six years in British Columbia, Yukon, Northwest Territories, USA and Mexico.

6. I am a co-author and the editor of this report, and I have been the supervisor (Qualified Person) for all of the fieldwork performed to date on the NICOAMEN RIVER property.

ALMADEN MINERALS LTD.

PROFESSIONAL PROVINCE OF E. A. BALON BRITISH COLUMBIA GEOSCIENTIST

Edward A. Balon, P.Geo

9.0 STATEMENT OF QUALIFICATIONS

I, James J. Hylands, of West Vancouver, British Columbia, hereby certify that:

1. I am a consulting geologist residing at 1430 Inglewood Avenue, West Vancouver, BC, V7T 1Z1, and am employed by Hylands Geological Services Ltd. of the same address.

2. I am a graduate of Northern College – Haileybury School of Mines, Haileybury, Ontario (1958), with a diploma in Mining Engineering Technology (integrated Geology, Mining and Metallurgy)

3. I am a graduate of the University of British Columbia, Vancouver, BC, (1966) with a degree in Geological Engineering (BASc).

4. Between 1966 and 1970 I attended Stanford University, Palo Alto, California, and undertook post-graduate studies in geochemistry.

5. I have attended Continuing Education Courses in Geoscience since 1970, at the University of British Columbia, McGill University and various colloquia.

6. I have been a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), license number 8177, since 1972.

7. I have worked continuously in mineral exploration and mining, including summer employment, since 1956 in Quebec, Ontario, British Columbia, Yukon, Northwest Territories, USA, Philippines, Jamaica and Tanzania.

8. I was employed by Almaden Minerals Ltd., 1103-750 West Pender Street, Vancouver, BC, V6C 2T8, during the period September 19 – 24, 2005, to geologically map portions of the NICOAMEN RIVER property.

9. I am a co-author of this report.

HYLANDS GEOLOGICAL SERVICES LTD.

James J. Hylands, P.Eng.

10.0 REFERENCES

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APPENDIX A

MINERAL CLAIM EXPLORATION and DEVELOPMENT WORK
EXPIRY DATE CHANGE CONFIRMATIONS

Event No. 4051847
Event No. 4068129

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- Select Input Method
- Select/Input Tenures
- Input Lots
- Data Input Form
- Review Form Data
- Process Payment
- Confirmation

Recorder: EDWARD AXEL BALON (101404) **Submitter:** EDWARD AXEL BALON (101404)
Recorded: 2005/OCT/18 **Effective:** 2005/OCT/18
D/E Date: 2005/OCT/18

Event Number: 4051847

Work Start Date: 2005/SEP/01 **Total Value of Work:** $ 30859.90
Work Stop Date: 2005/OCT/15 **Mine Permit No:** N/A

Work Type: Technical and Physical Work
Physical Items: ~~Tunneling~~ *Trenching* EAB
Technical Items: Geochemical, Geological, Prospecting

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- View Placer Tenures

Exit this e-service

Summary of the work value:

Tenure #	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Work Value Due	Sub-mission Fee
511667		2005/APR/26	2005/OCT/20	2010/DEC/31	1898	413.93	$ 10537.69	$ 860.98
511671		2005/APR/26	2005/OCT/20	2010/DEC/31	1898	517.42	$ 13172.19	$ 1076.23
506513	ZAK3	2005/FEB/10	2006/FEB/10	2008/DEC/31	1055	517.42	$ 5977.18	$ 598.22

Total required work value: $ 29687.06

PAC name: Almaden Minerals Ltd.
Debited PAC amount: $ 0.00
Credited PAC amount: $ 1172.84

Total Submission Fees: $ 2535.43

Envelope-to: almaden07@uniserve.com
Date: Tue, 18 Oct 2005 15:03:22 -0700 (PDT)
From: MT.online@gov.bc.ca
To: info@almadenminerals.com, hunter@almadenminerals.com
Subject: Mineral Titles Online, Transaction event, Email confirmation, Event 4051847, Work Type: B
X-Scanner: OK. Scanned.
X-NAS-Language: English
X-NAS-Bayes: #0: 3.91489E-280; #1: 1
X-NAS-Classification: 0
X-NAS-MessageID: 714
X-NAS-Validation: {5692575C-2549-44B4-816F-D2676C27C45B}

Event Number: 4051847
Event Type: Exploration and Development Work / Expiry Date Change

Work Type Code: B

Required Work Amount: 29687.06

Total Work Amount: 30859.90

Total Amount Paid: 2535.43

PAC Name: Almaden Minerals Ltd.

PAC Debit: 0.00

Tenure Number: 511667
Tenure Type: M
Tenure Subtype: C
Claim Name:
Old Good To Date: 2005/OCT/20
New Good To Date: 2010/DEC/31
Tenure Required Work Amount: 10537.69
Tenure Submission Fee: 860.98

Tenure Number: 511671
Tenure Type: M
Tenure Subtype: C
Claim Name:
Old Good To Date: 2005/OCT/20
New Good To Date: 2010/DEC/31
Tenure Required Work Amount: 13172.19
Tenure Submission Fee: 1076.23

Tenure Number: 506513
Tenure Type: M
Tenure Subtype: C
Claim Name: ZAK3
Old Good To Date: 2006/FEB/10
New Good To Date: 2008/DEC/31
Tenure Required Work Amount: 5977.18
Tenure Submission Fee: 598.22

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Confirmation

Mineral Claim Exploration and Development Work/Expiry Date Change

- Select Input Method
- Select/Input Tenures
- Input Lots
- Data Input Form
- Review Form Data
- Process Payment
- Confirmation

Recorder: ALMADEN MINERALS LTD. (144134)
Submitter: ALMADEN MINERALS LTD. (144134)
Recorded: 2006/FEB/02
Effective: 2006/FEB/02
D/E Date: 2006/FEB/02

Event Number: 4068129

Work Start Date: 2005/SEP/08
Work Stop Date: 2005/SEP/30
Total Value of Work: $ 1172.84
Mine Permit No:

Work Type: Technical and Physical Work
Physical Items: Supply costs, Transportation / travel expenses
Technical Items: PAC Withdrawal (up to 30% of technical work performed), Prospecting

Summary of the work value:

Tenure #	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Work Value Due	Sub-mission Fee
508830	ZAK4	2005/MAR/11	2006/MAR/11	2006/DEC/31	295	496.39	$ 1604.77	$ 160.48

Total required work value: $ 1604.77

PAC name: Almaden Minerals Ltd.
Debited PAC amount: $ 431.93
Credited PAC amount: $ 0.00

Total Submission Fees: $ 160.48

Total Paid: $ 160.48

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From: MT.online@gov.bc.ca
To: info@almadenminerals.com
Subject: Mineral Titles Online, Transaction event, Email confirmation, Event # 4068129, Work Type: B

Event Number: 4068129
Event Type: Exploration and Development Work / Expiry Date Change

Work Type Code: B

Required Work Amount: 1604.77

Total Work Amount: 1172.84

Total Amount Paid: 160.48

PAC Name: Almaden Minerals Ltd.

PAC Debit: 431.93

Tenure Number: 508830
Tenure Type: M
Tenure Subtype: C
Claim Name: ZAK4
Old Good To Date: 2006/MAR/11
New Good To Date: 2006/DEC/31
Tenure Required Work Amount: 1604.77
Tenure Submission Fee: 160.48

Server Name: PRODUCTION

APPENDIX B

NICOAMEN RIVER AREA Pre-Staking RECON SAMPLE SUMMARY TABLE & ACME ANALYTICAL GEOCHEMICAL & ASSAY CERTIFICATES

NICOAMEN RIVER AREA Pre-Staking (2003-2004) RECONNAISSANCE SAMPLE SUMMARY

Sample Number	East NAD 83	North NAD83	AU ppb	MO ppm	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	SB ppm	BA ppm	HG ppm	Rock Type	Note
Stream Sediment Samples														
MC-186	618879	5559694	0.8	0.4	30.4	3.8	70	-0.1	3.2	0.5	126	0	Dark grey maroon volcanics, diorite (DI)	Channel 80cm, dry trickler steep grade, boulder cobble bed
MC-187	618940	5559692	2	0.5	22.3	3.3	62	-0.1	4.2	0.4	167	0	KSBS basalt, contact area w/ EK tuff(?) bodies & TJgd.	Nicoamen main trunk 3-5m wide, mod flow, sand/gravel/cobble base.
MC-187S	618940	5559692	2.1										KSBS basalt, contact area w/ EK tuff(?) bodies & TJgd.	Nicoamen main trunk 3-5m wide, mod flow, sand/gravel/cobble base.
MC-188	619061	5559769	0.5	0.6	28.4	4	56	0.1	0.8	0.1	102	0	KSBS basalt, contact area w/ EK tuff(?) body.	E side br, dry channel 30-40cm wide, only minor transported seds.
MC-189	619081	5558944	0.7	0.4	20.5	3.8	71	-0.1	10.4	0.9	189	0	Dark grey maroon volcanics, DI, minor tan pyroclastic	Chan 80cm, good flow, mod grade, grvl sand bed. Two rd xings upstrm
MC-190	619451	5558787	2.8	0.7	20.8	3.7	64	-0.1	10.3	0.5	133	0	Vesicular BV O/C, gry maroon BV, DI, tan SI lam rock, tan pyrocl	Channel 1.2m, mod flow, steep grade, boulder/cobble bed.
MC-270	620501	5558892	0.5	0.4	33.1	3.6	57	0.1	2.3	0.2	54	0	Sand/gravel base + basaltic mud	0.5m wide trickler. Disturbed ground from old logging
MC-271	620473	5558839	1.3	0.5	31.2	4	60	0.1	4.3	0.3	91	0	Dom BV boulders w/ some lighter colored volcanics (EK?)	2.0m.wide channel mod flow
MC-272	620526	5558332	0.7	0.5	37.5	2.7	60	-0.1	2.3	0.2	64	0	Dom basaltic volcanic (BV) float, minor intrusive	<0.5-0.75m wide trickler
MC-273	620531	5558052	-0.5	0.4	28.1	3.3	48	0.1	5.2	0.2	89	0	Dominantly BV float.	0.3-0.5m wide trickler
MC-274	620276	5558082	0.7	0.5	20.8	3.3	54	0.1	8.4	0.2	293	0	Rounded intrusive (GD) float, at least 95%	Main trunk 3-5m wide bouldery channel
MC-275	620100	5558708	2	0.5	27	3	53	-0.1	6.1	0.3	240	0	Granodiorite subcrop on SW bank >95% GD float in streambed	Main-3-5m wide moderate flow.
MC-276	620094	5558737	-0.5	0.4	25.9	3.2	56	-0.1	3	0.3	88	0	Dominantly BV float.	Side branch mouth below MC-275. 1.5-2.5m wide mod flow
MC-277	618481	5559322	0.5	0.3	23.1	4	59	-0.1	2.4	0.2	120	0	BV & granodiorite (GD) float	Dry channel 0.5-1.0m wide
MC-278	618306	5559372	-0.5	0.6	26.1	3.7	45	0.1	3.1	0.3	205	0	No sizable float	Dry channel <0.5m wide.
MC-279	618616	5559032	-0.5	0.4	22.3	3.8	61	-0.1	4.3	0.2	225	0	AV/BV outcrop upstream & in road cut to SE	Dry channel 0.8m wide
MC-280	618816	5558752	-0.5	0.3	19.6	3.5	51	-0.1	14.9	1.4	248	0	GD/BV float	0.5-0.8m wide channel, mere trickle.
MC-281	618938	5558637	-0.5	0.4	22.4	4.2	67	0.1	9.5	0.4	208	0	AV/BV float, round GD bldrs & agate/high level QV boulders	1.0-1.5m wide channel.
MC-282	618419	5558452	0.6	0.4	20.7	3.9	49	0.1	12.5	0.5	281	0	Some BV/AV, plenty GD float.	<0.3-0.5m wide channel.
MC-283	618036	5558752	-0.5	0.7	30.4	3.3	109	-0.1	2.1	0.2	130	0	BV/AV bedrock	<0.5-1.0m wide channel.
MC-284	618511	5558732	-0.5	0.4	23.1	4	61	0.1	6.4	0.3	250	0	Dull grey-brown to red-brown BV/AV	0.5m wide channel.
MC-285	618324	5560077	2.4	0.4	26.6	3.2	53	0.1	3.2	0.4	124	0	Dominantly granitic (GR) float	<0.5m wide dry channel
MC-286	619436	5558375	3.5	0.7	24.9	3.6	54	0.1	26.1	0.7	244	0	Granitic & felsic volcanic float.	0.5-0.8m wide channel.
MC-287	619506	5558492	3.5	0.7	21.7	3.2	51	-0.1	23.2	0.7	225	0	Granitic & volcanic float, some felsic	0.75 wide channel.
MC-288	619546	5558342	1	0.4	26.7	4.2	60	0.1	4.3	0.1	115	0	Felsic float. Small chips	0.3-0.5 wide dry channel.
MC-289	619526	5558332	1.1	0.4	21.3	3.9	53	0.1	4	0.2	83	0	Granitic & angular felsic volcanic float	0.3-0.5m wide dry channel.
MC-290	619521	5558347	3.1	0.6	21.3	4.1	61	-0.1	10.1	0.5	158	0	Granitic & angular felsic volcanic float	0.75-1.25m wide dry channel.
MC-291	618731	5559262	0.8	0.4	25.3	3	55	-0.1	4	0.5	105	0	Dominantly GD cobbles, lesser mafic volcanic	0.5m dry channel, till zone
MC-292	619052	5559377	-0.5	0.5	15.7	4.3	51	-0.1	4	0.2	218	0	GD/mafic volcanic some vesicular BV rubble	1.0m dry channel.
MC-293	618806	5559209	0.6	0.6	28.8	4.2	76	0.1	5.5	0.3	255	0	Mixed GD/mafic volcanic cobbles/bldrs.	0.3-0.5m wide dry channel.
MC-294	619256	5559002	0.5	0.4	22	3.5	69	-0.1	10.5	0.9	190	0	GD/mafic volcanic boulders. Heavy till area	1.0m dry channel.
MC-295	618406	5560382	0.5	0.4	32.8	3.1	64	-0.1	3.1	0.4	104	0	GD/mafic volcanic boulders	1-1.25m dry channel.
MC-296	618438	5560352	0.9	0.6	27.6	2.9	61	-0.1	4.4	0.4	110	0	GD/mafic volcanic boulders	0.5m.dry channel.
MC-297	619022	5560139	1	0.3	25.3	2.8	45	-0.1	2.3	0.3	70	0	Very thick >5m red-brown till banks both sides	<0.25m boggy intermitent trickler atop organic mat
MC-298	616961	5559390	-0.5	0.4	20.4	3.7	53	-0.1	4.6	0.3	250	0	Round cobbles of GD within the GD groundmass	0.4m boggy trickler. Sample is fine (high-water) silt. Mod organics
MC-299	616956	5559062	1.2	0.6	40.8	3.1	70	-0.1	6.4	0.5	151	0	Abund strongly QZCB alt'd GD float incl BX, some QVlts.	0.75m dry channel.
MC-300	617031	5558942	-0.5	0.7	41	3.5	52	-0.1	4	0.3	138	0	Intensely sheared/CB alt'd GD in area	0.5m dry channel.
MC-301	616588	5558732	-0.5	1.9	26.9	2.5	59	-0.1	2.9	0.5	135	0	Unaltered GD cobbles	0.5-0.8m wet channel. Sand/gravel base.
MC-302	619206	5561785	-0.5	0.4	36.4	3.1	49	-0.1	-0.5	-0.1	47	0	Dark grey & maroon BV w/ agate.	0.5-0.8m side br. Trickle. Cgr seds atop org mat. Partial moss mat.
MC-303	619190	5561781	-0.5	0.4	26	3	60	-0.1	0.8	-0.1	94	0	Basalt O/C bluffs in banks upstream.	Main 1.5-3.0m. Gravel/cobble base. Gentle flow. Good clean fine seds.
MC-304	618659	5561502	1.4	0.3	28	3.9	64	-0.1	1.3	0.3	75	0	Till covered terrain underlain by basalt	0.4m dry channel. Red-brown sediments atop organic mat.
MC-305	618270	5561528	-0.5	0.4	28.6	3.5	59	-0.1	2	0.2	78	0	Till covered terrain underlain by basalt	0.6m dry channel. Red-brown sediments atop organic mat.
MC-306	620681	5560532	-0.5	0.3	20.3	3	55	-0.1	2	-0.1	104	0	Basalt pebbles.	0.8m sand/gravel base gentle flow.
MC-307	620726	5561242	-0.5	0.3	25.8	2.9	52	-0.1	0.8	-0.1	113	0	Basalt & basaltic andesite cobbles.	Left branch 0.6-1.0m sand/gravel base; almost dry.
MC-308	620726	5561227	-0.5	0.3	24.7	3.1	62	-0.1	-0.5	-0.1	94	0	BV & BV/AV cobbles plus rounded GD/DI boulders.	Right branch 1-1.5m channel sand/gravel base; trickle.
MC-309	621322	5561034	-0.5	0.3	23.6	4	59	-0.1	0.8	-0.1	85	0	Red-brown basaltic outcrop on NE bank.	0.6-0.8m bouldery channel sand/gravel base; stagnant water.

NICOAMEN RIVER AREA Pre-Staking (2003-2004) RECONNAISSANCE SAMPLE SUMMARY

Sample Number	East NAD 83	North NAD83	AU ppb	MO ppm	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	SB ppm	BA ppm	HG ppm	Rock Type	Note
Soil Samples														
MC-S97	616945	5559169	5.2	3.7	34.6	3.2	55	-0.1	20.1	1.5	118	0	QFR, granulite(?)	3 grabs over 6m -35deg slope. 10cm depth
MC-S98	616945	5559179	16.3	9	35.3	2.8	55	0.1	23.7	2	137	0	QFR, granulite(?)	3 grabs over 6m -35deg slope. 10cm depth
MC-S99	616945	5559189	15.9	5.6	49.5	3.4	56	0.1	55.2	2.9	146	0	QFR, granulite(?)	3 grabs over 6m -35deg slope. 10cm depth
MC-S100	616938	5559197	22.8	2.8	35.8	3.4	60	0.1	24	1	167	0	QFR, granulite(?)	2 grabs over 6m -35deg slope. 10cm depth
MC-S101	619184	5558634	94	5.5	26.3	3.6	78	0.1	181.5	4.7	122	0	*At contact of felsic volcanic and weathered intrusive*	1 pit bottom 3m. 40deg slope. Road cut.
MC-S102	619207	5558645	32.3	9.2	9.4	1.4	53	-0.1	164.7	3.9	83	0	Felsic volcanic and weathered intrusive	1 pit bot 6m. 40deg slope. Road cut 25m at 66deg from S101
MC-S103	619228	5558633	26	13.3	11.7	2.3	45	-0.1	291.7	12.3	106	0	Felsic volcanic and weathered intrusive	1 pit bot 6m. 25deg slope. Road cut 25m at 120deg from S102
MC-S104	619248	5558617	66.9	11	15.4	3.2	87	0.1	270.2	9	131	0	Felsic volcanic and weathered intrusive	1 pit bot 5m. 30deg slope. Road cut 25m at 130deg from S103
MC-S105	619262	5558597	48.4	10.5	18.3	2.8	81	-0.1	182.9	4.8	97	0	Felsic volcanic and weathered intrusive	1 pit bot 6m. 40deg slope. Road cut 25m at 145deg from S104
MC-S106	619280	5558580	61.8	5.6	24.1	5.6	54	-0.1	100.8	6.5	101	0	*At contact of felsic volcanic and weathered intrusive*	1 pit bot 7m. 40deg slope. Road cut 25m at 145deg from S105
MC-S107	618276	5560789	1.3	1	24.2	2.9	112	-0.1	10.9	0.5	262	0	CB altered volcanic subcrop	B horizon on steep west bank
MC-S108	618606	5560087	1.8	0.2	58.5	2.3	93	-0.1	7	0.1	67	0	Blocky mafic volcanic subcrop	Rusty orange soil grabs in cut bank
MC-S117	618448	5561204	1.2	0.4	9.6	1.8	36	-0.1	4.9	1	80	1	CB altered massive BV	Subcrop w/ talus containing crystalline QZ masses
MC-S118	615622	5557890	-0.5	5.1	48.6	1.5	49	-0.1	1.8	-0.1	132	0	Probable contact GD/qzose-mica schist w/ dissem PY	Taken over 4m.
MC-S119	618834	5558009	1	2.2	28.5	4.7	59	-0.1	234.3	0.5	50	0	BV w/ chalcedony stringers to 0.5cm	Subcrop
Rock Samples														
MC-R186	616941	5559197	19.3	28.5	32.2	2.3	33	0.2	108.7	3.5	195	0	QZCB altered volcanic breccia & intrusive	Subcrop rubble
MC-R187	616945	5559169	414.9	30.7	47.7	3.9	10	0.8	440.8	7.5	35	0	Strongly sheared QFR, granulite(?)	Yellow-white Fe sulfates(?)
MC-R188	620376	5558775	-0.5	0.5	5.3	0.3	2	-0.1	2.9	0.3	10	0	Single piece high level QV.	Road/stream crossing, 5x8.5x12cm tabular-submd.
MC-R189	620066	5558852	300.8	1.8	13.4	1.5	14	0.4	7.5	0.8	40	0	5 pcs QV/BX. 2 pcs high-level QV in basalt hostrock	Largest piece 3x6x7cm. 5 pieces over 50m of old road base
MC-R190	619181	5558637	1604	9.2	5.6	0.7	4	0.9	65.6	5.4	94	0	QV/silica-flooded GD, chalcedonic QZ.	Composite 12 pieces rubble/broken subcrop
MC-R191	619228	5558639	257.1	7.4	4.4	0.3	3	0.5	26.4	1.5	14	0	QV. Dominantly massive white chalcedony	Composite 30 angular pieces.1-3cm (tw)
MC-R192	619266	5558602	843.1	30.2	22.3	0.3	2	0.7	39	3.6	50	1	QV & silica-flooded GD. Light-grey translucent chalcedony	12 pieces, largest 6-7cm. Nearby narrow in-situ veins 2cm (tw).
MC-R193	619273	5558595	332.9	15.9	10.9	1	1	1.8	142.8	9.4	177	1	Msv lt gy chalcedony w/mt cavs coated w/ FeO-MnO	1 pc 6(tw)x12x14cm sharp angular
MC-R194	618914	5559127	55526	1	2.7	0.2	1	3.4	2.2	0.4	136	0	QV float msv opaque white chalcedony w/ rosy hue after hem.	5.5x7x12cm and 2x2x2cm angular pieces
MC-R195	619276	5558997	314.4	2.6	13.6	0.6	4	0.3	3.6	0.6	33	0	QV/BX. GD w/ vein cutting through.	6x6.5(tw)x9cm and 7x8.5x10cm angular pieces
MC-R196	619276	5558987	868.2	0.3	5	0.8	4	0.6	1.1	0.2	17	0	QV, white & partly clear semi-chalcedonic QZ.	In-situ 6-10cm (tw) stringer 025/Dip 045 to ESE
MC-R197	619193	5558847	546	1.6	6	0.2	1	0.5	1.7	0.3	12	0	Tabular-angular piece QV float	Opaque white, lesser pale grey & light tan banded chalcedony
MC-R198	617231	5558976	1076.1	36	7.8	0.4	2	0.5	16.3	1.9	74	0	Good banded chalcedony-type QV float.	10 angular/subangular pieces. Largest are 3x5x9cm & 7.5x7.5x9cm
MC-R222	618971	5559095	1.8	5.4	105.4	0.8	13	0.1	13.1	0.4	17	0	Light grey very silic rock (qtz-ser-musc schist).	Prob contact-metamorphosed felsic volcanic. Vicinity of R194.
MC-R223	618606	5560090	0.7	0.3	103.8	4.6	91	0.1	7.4	0.4	222	0	Purpley-grey-brown basaltic rocks	White & clear chalcedonic QVlts (minor AK); <5-8mm thick
MC-R224	618398	5560182	1017.3	143	89.6	2.8	8	0.5	563.4	40.7	286	12	White & blue-grey chalcedony	One piece, 3.5x4x4cm

NOTE: QFR = Quartzofeldspathic rock; SI = silica; AK = ankerite; CB = carbonate; BV = basaltic volcanic; AV = andesitic volcanic; GD = granodiorite; DI = diorite; GR = granite; QZ = quartz; QV = quartz vein; QVlts = quartz veinlets; QZCB = quartz carbonate; sfc = surface

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
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GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR03-2 File # A302595

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	1.3	1.9	1.4	25	<.1	2.5	2.3	296	1.06	<.5	1.0	.8	2.1	48	<.1	<.1	.1	22	.32	.038	5	10.8	.33	133	.081	<1	.62	.078	.31	2.6	<.01	1.9	.2	<.05	3	<.5
MC-171	.4	22.6	6.5	60	.2	28.2	14.5	541	3.18	3.6	2.4	20.3	1.4	118	.1	.3	.1	99	1.08	.067	10	50.9	1.28	110	.189	3	2.58	.063	.06	.1	.08	9.6	<.1	<.05	7	.6
MC-172	.4	24.4	7.7	54	.2	29.8	12.5	420	2.68	3.0	3.0	24.7	.9	117	.2	.2	.1	77	1.31	.070	14	45.7	1.15	90	.147	4	2.42	.051	.07	.1	.10	7.8	<.1	<.05	7	.5
MC-173	.4	25.4	11.3	69	.2	30.8	14.3	528	3.20	3.3	1.2	1.8	1.3	134	.1	.3	.1	99	1.15	.075	12	45.5	1.20	107	.199	3	2.17	.061	.06	.1	.06	7.1	<.1	<.05	7	<.5
MC-174	.4	23.0	4.3	56	.1	39.0	15.7	527	3.20	2.9	.7	<.5	1.3	100	.1	.7	<.1	96	.89	.087	13	45.0	1.10	103	.124	3	1.74	.060	.06	.1	.11	6.6	<.1	<.05	5	<.5
MC-175	.3	25.3	3.5	54	.1	53.4	16.1	466	3.09	1.4	.9	1.0	1.1	112	.1	.1	<.1	84	.99	.070	12	45.0	1.39	103	.151	4	2.19	.069	.08	.1	.03	6.9	<.1	<.05	6	.5
MC-176	.5	27.0	5.0	59	.1	37.5	18.0	723	3.38	3.7	.6	.9	1.3	96	.1	1.0	<.1	96	1.04	.100	14	45.0	1.04	107	.099	4	1.73	.049	.06	<.1	.60	8.1	<.1	<.05	5	.5
MC-177	.3	23.1	4.1	54	.1	40.2	15.0	546	2.85	3.2	.8	.5	1.1	100	.1	.3	<.1	84	.85	.082	13	42.3	1.19	130	.118	3	1.92	.064	.07	<.1	.05	6.7	<.1	<.05	5	.5
MC-178	.4	31.4	5.9	51	.2	39.4	14.4	472	2.94	2.8	1.2	<.5	.9	112	.1	.2	.1	81	1.36	.070	14	52.7	1.19	128	.149	5	2.83	.046	.07	.1	.10	9.6	<.1	<.05	8	.8
MC-179	.5	28.3	5.6	59	.1	38.7	17.8	727	3.39	4.1	.6	107.0	1.4	99	.1	1.0	.1	98	1.01	.096	13	46.8	1.08	103	.114	3	1.80	.051	.07	.1	.69	7.8	<.1	<.05	5	<.5
MC-180	.7	42.3	6.1	68	.1	17.6	12.9	1312	3.31	3.1	.6	.9	.7	48	.3	.4	.1	93	1.26	.064	8	32.2	.95	256	.114	4	1.83	.020	.06	.1	.06	8.4	<.1	<.05	6	1.2
MC-181	.7	35.7	7.7	73	.2	15.7	11.6	1613	3.06	3.4	.9	.5	.6	53	.5	.3	.1	82	1.32	.062	9	27.9	.82	222	.106	3	2.10	.019	.06	.1	.07	8.7	<.1	<.05	6	1.2
MC-182	.6	44.9	8.0	72	.2	16.2	12.2	897	3.32	3.5	1.4	1.4	.6	48	.4	.3	.1	89	1.20	.059	11	30.0	.88	209	.095	3	2.20	.019	.06	.1	.08	9.5	<.1	<.05	6	1.0
RE MC-183	.6	27.5	5.8	71	.1	12.1	10.4	1359	2.97	2.9	.6	1.0	.6	42	.2	.3	<.1	88	1.00	.067	8	22.5	.76	142	.135	3	1.67	.019	.05	.1	.05	7.7	<.1	<.05	5	.8
MC-183	.6	28.5	6.0	74	.1	12.5	10.7	1396	3.07	3.0	.6	1.3	.6	42	.2	.3	.1	92	1.02	.068	8	23.5	.78	140	.145	3	1.73	.020	.05	.1	.05	8.4	<.1	<.05	5	1.0
MC-184	.6	37.1	7.3	64	.3	12.0	8.9	945	2.64	2.9	.9	.7	.4	45	.5	.2	.1	64	1.21	.070	14	21.5	.69	222	.087	3	3.00	.019	.05	<.1	.13	7.9	.1	<.05	7	1.3
MC-185	.5	52.3	10.1	65	.3	15.2	11.4	967	2.96	3.1	1.0	4.0	.5	51	1.2	.3	.1	77	1.27	.061	14	28.4	.94	131	.103	3	2.84	.019	.05	<.1	.10	9.7	.1	<.05	7	1.9
MC-186	.4	30.4	3.8	70	<.1	48.9	19.6	716	3.71	3.2	.5	.8	1.4	107	.1	.5	.1	90	.79	.077	13	57.0	1.27	126	.120	3	2.20	.056	.08	<.1	.03	8.7	<.1	<.05	6	<.5
MC-187	.5	22.3	3.3	62	<.1	35.7	14.7	549	3.28	4.2	1.9	2.0	1.3	116	<.1	.4	.1	105	.87	.081	12	54.6	1.06	167	.119	3	1.60	.087	.07	.1	.03	5.2	<.1	<.05	5	.5
MC-188	.6	28.4	4.0	56	.1	49.8	17.1	610	3.19	.8	7.4	.5	1.4	109	.1	.1	.1	86	1.13	.069	14	57.7	1.21	102	.126	6	1.99	.074	.08	<.1	.04	6.8	<.1	<.05	5	.6
MC-189	.4	20.5	3.8	71	<.1	31.5	15.5	621	3.41	10.4	1.0	.7	1.6	110	<.1	.9	.1	99	.79	.076	10	41.0	1.01	189	.137	4	1.90	.045	.08	.1	.02	5.9	<.1	<.05	6	.6
MC-190	.7	20.8	3.7	64	<.1	40.5	16.8	573	3.12	10.3	.7	2.8	1.3	120	.1	.5	<.1	82	.79	.072	10	46.9	1.34	133	.139	1	1.84	.061	.07	.1	.02	6.0	<.1	<.05	5	<.5
STANDARD DS5	12.3	144.6	25.6	138	.3	25.1	12.5	749	3.01	17.4	6.4	41.4	2.8	50	5.4	3.9	6.1	62	.72	.090	13	189.3	.69	141	.106	18	2.13	.034	.15	4.8	.17	3.8	1.1	<.05	7	4.9

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
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.
- SAMPLE TYPE: STREAM SED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 15 2003 **DATE REPORT MAILED:** July 26/03 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME AN[illegible]TICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6[illegible]253-1716
(I[illegible] 002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR03-2 File # A302594
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Au* ppb
G-1	<.2
MC-187S	2.1
STANDARD AU-S	41.9

AU* BY ACID LEACHED, ANALYZED BY ICP-MS. (15 gm)
- SAMPLE TYPE: STREAM SED.

DATE RECEIVED: JUL 15 2003 DATE REPORT MAILED: July 25/03 SIGNED BY: C. L........ .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

REVISED COPY

Data [illegible] FA ____

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-3 File # A404947

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
SI	.2	.7	.2	<1	<.1	.3	<.1	4	.09	<.5	<.1	<.5	<.1	2	<.1	<.1	<.1	<1	.08	<.001	<1	1.7	<.01	3	<.001	<1	.01	.382	<.01	.2	<.01	.1	<.1	<.05	<1	<.5	-
MC-R186	28.5	32.2	2.3	33	.2	10.7	10.3	430	2.26	108.7	.7	19.3	.6	36	.2	3.5	<.1	47	1.09	.040	4	6.9	.49	195	<.001	3	.36	.010	.06	<.1	.11	7.7	.4	.27	1	.6	1.95
MC-R187	30.7	47.7	3.9	10	.8	5.3	21.5	21	4.19	440.8	3.0	414.9	.8	15	<.1	7.5	.1	21	.12	.053	3	2.3	.01	35	<.001	4	.41	.017	.05	.5	.17	6.2	.2	3.18	1	2.1	1.50
MC-R188	.5	5.3	.3	2	<.1	1.5	.6	27	.44	2.9	<.1	<.5	<.1	35	<.1	.3	<.1	3	.06	.002	<1	1.8	.03	10	.003	1	.12	.010	.01	<.1	<.01	.2	<.1	<.05	<1	<.5	.98
MC-R189	1.8	13.4	1.5	14	.4	9.0	3.7	377	.91	7.5	.3	300.8	.2	30	.1	.8	.3	12	.12	.006	3	10.2	.08	40	.010	1	.27	.044	.08	1.6	.30	1.1	<.1	<.05	1	<.5	.59
MC-R190	9.2	5.6	.7	4	.9	2.4	1.1	70	.84	65.6	.1	1604.0	.1	9	<.1	5.4	<.1	18	.05	.005	1	3.3	.04	94	.002	1	.17	.005	.07	.1	.23	.4	<.1	<.05	1	<.5	1.78
MC-R191	7.4	4.4	.3	3	.5	2.4	.6	56	.37	26.4	.1	257.1	<.1	6	<.1	1.5	<.1	6	.04	.004	1	6.0	.03	14	.002	1	.14	.002	.06	1.8	.09	.3	<.1	<.05	1	<.5	1.59
MC-R192	30.2	22.3	.3	2	.7	1.5	.6	65	.56	39.0	.1	843.1	<.1	7	.1	3.6	<.1	14	.05	.006	1	3.0	.02	50	.001	2	.14	.002	.07	.1	.61	.3	<.1	<.05	1	<.5	2.23
MC-R193	15.9	10.9	1.0	1	1.8	3.2	1.0	55	.49	142.8	.1	332.9	.1	11	.3	9.4	<.1	16	.02	.004	1	8.2	.01	177	.001	<1	.07	.002	.03	2.5	.88	.2	.1	.07	<1	.6	1.63
MC-R194	1.0	2.7	.2	1	3.4	.9	.2	82	.31	2.2	<.1	55526.1	<.1	7	<.1	.4	<.1	3	.12	.002	<1	2.6	.01	136	.002	1	.10	.003	.09	<.1	.13	.2	<.1	<.05	<1	<.5	.65
MC-R195	2.6	13.6	.6	4	.3	3.9	1.0	113	.56	3.6	.1	314.4	.1	20	<.1	.6	<.1	7	.64	.004	1	8.6	.05	33	.002	1	.18	.005	.05	2.4	.21	.4	<.1	<.05	1	<.5	1.12
MC-R196	.3	5.0	.8	4	.6	1.3	1.8	384	.50	1.1	.1	866.2	.1	21	<.1	.2	<.1	11	3.08	.001	3	2.5	.04	17	.002	2	.18	.003	.07	<.1	.15	.4	<.1	<.05	1	<.5	1.38
RE MC-R196	.2	5.2	.8	4	.6	1.5	1.6	382	.50	1.0	.1	809.7	.1	19	<.1	.2	<.1	11	3.02	.001	3	2.3	.04	16	.001	3	.18	.003	.06	<.1	.16	.4	<.1	<.05	1	<.5	-
MC-R197	1.6	6.0	.2	1	.5	2.7	.3	65	.42	1.7	<.1	546.0	<.1	4	<.1	.3	<.1	3	.04	.001	<1	7.9	.01	12	<.001	<1	.10	.003	.07	2.2	.12	.1	<.1	<.05	<1	<.5	.71
MC-R198	36.0	7.8	.4	2	.5	3.3	1.0	154	.86	16.3	<.1	1076.1	<.1	16	<.1	1.9	<.1	6	.15	.005	1	4.2	.07	74	.002	2	.11	.005	.06	<.1	.11	.4	.1	<.05	<1	<.5	1.45
STANDARD DS5	12.3	142.7	25.0	138	.3	25.2	12.7	750	2.95	19.0	6.3	43.5	2.6	47	5.6	3.6	6.3	60	.72	.090	13	189.2	.69	136	.094	18	2.00	.032	.14	5.1	.19	3.6	1.2	<.05	7	5.3	-

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data L FA ____ DATE RECEIVED: AUG 25 2004 DATE REPORT MAILED: Sept. 11/04...

Assay recommend for Au >1000 ppb

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6 253-1716
(9002 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-3 File # A404947R
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Ag** gm/mt	Au** gm/mt
MC-R194	6	64.87
STANDARD R-2a/AU-1	157	3.35

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

Data Wb FA ____ DATE RECEIVED: FEB 17 2005 DATE REPORT MAILED: March 2/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6[illegible]53-1716
(I[illegible]9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-3 File # A404948

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
MC-270	.4	33.1	3.6	57	.1	31.6	14.1	475	3.11	2.3	1.0	.5	.9	93	.1	.2	.1	96	1.03	.058	8	50.7	1.23	54	.136	7	1.74	.079	.06	<.1	.01	6.0	<.1	.08	5	.7
MC-271	.5	31.2	4.0	60	.1	44.5	17.3	664	3.30	4.3	3.8	1.3	1.3	126	.1	.3	.1	89	1.14	.096	13	41.8	1.50	91	.136	6	2.04	.114	.10	<.1	.03	6.8	<.1	<.05	5	.5
MC-272	.5	37.5	2.7	60	<.1	70.8	24.3	760	3.92	2.3	1.2	.7	.8	102	<.1	.2	.1	76	.88	.063	7	24.8	1.74	64	.104	2	1.62	.087	.06	<.1	.01	4.0	<.1	<.05	5	.6
MC-273	.4	28.1	3.3	48	.1	37.5	15.4	1468	3.64	5.2	.8	<.5	1.0	126	.1	.2	.1	112	1.14	.096	12	43.2	1.06	89	.100	4	1.74	.067	.07	<.1	.02	5.4	<.1	.07	4	.7
MC-274	.5	20.8	3.3	54	.1	29.4	12.6	673	2.78	8.4	1.3	.7	1.0	130	.1	.2	.1	92	.87	.084	10	43.5	1.04	293	.107	2	1.88	.077	.08	<.1	.02	4.7	<.1	<.05	5	.6
MC-275	.5	27.0	3.0	53	<.1	36.4	13.7	653	2.72	6.1	1.0	2.0	1.2	142	<.1	.3	.1	83	.94	.088	11	39.9	1.19	240	.105	2	1.78	.100	.08	<.1	.02	4.7	<.1	<.05	5	<.5
MC-276	.4	25.9	3.2	56	<.1	42.1	15.6	558	3.10	3.0	1.6	<.5	1.3	122	.1	.3	.1	87	1.00	.076	11	42.6	1.30	88	.129	4	1.82	.107	.09	<.1	.01	5.7	<.1	<.05	5	.5
MC-277	.3	23.1	4.0	59	<.1	45.2	17.7	636	3.39	2.4	.6	.5	1.1	119	<.1	.2	.1	76	.78	.068	13	53.3	1.34	120	.082	3	2.74	.043	.07	<.1	.01	7.6	<.1	.06	6	<.5
MC-278	.6	26.1	3.7	45	.1	49.5	16.6	1220	3.08	3.1	.5	<.5	.9	142	.1	.3	<.1	74	1.21	.078	16	46.5	1.11	205	.086	6	2.04	.059	.07	<.1	.03	7.3	<.1	<.05	5	.5
MC-279	.4	22.3	3.8	61	<.1	44.4	16.1	575	3.26	4.3	.8	<.5	1.3	170	.1	.2	.1	76	.83	.076	14	38.4	1.24	225	.092	3	2.41	.053	.06	<.1	.02	6.3	<.1	<.05	6	.5
MC-280	.3	19.6	3.5	51	<.1	25.9	11.5	498	2.67	14.9	1.6	<.5	1.6	100	.1	1.4	.1	73	.80	.079	11	30.9	.79	248	.075	2	1.70	.033	.06	.1	.02	4.6	<.1	<.05	5	<.5
MC-281	.4	22.4	4.2	67	.1	29.4	14.6	657	3.11	9.5	1.0	<.5	1.4	146	.1	.4	.1	99	1.00	.068	11	43.7	1.15	208	.139	2	2.40	.062	.08	<.1	.03	6.8	.1	<.05	6	<.5
MC-282	.4	20.7	3.9	49	.1	28.0	12.0	655	2.94	12.5	1.5	.6	.9	114	.1	.5	.1	82	.89	.081	17	35.5	.74	281	.062	3	2.46	.026	.06	<.1	.04	6.4	<.1	<.05	7	<.5
RE MC-281	.4	23.4	4.2	64	.1	29.6	14.6	635	3.01	8.8	1.0	<.5	1.3	140	.1	.4	<.1	95	.98	.064	10	41.9	1.08	192	.142	2	2.31	.057	.08	<.1	.02	6.7	.1	<.05	6	<.5
MC-283	.7	30.4	3.3	109	<.1	59.0	22.2	771	3.74	2.1	.5	<.5	1.0	134	.1	.2	<.1	94	1.04	.133	18	74.9	1.75	130	.126	3	2.92	.059	.07	<.1	.03	7.0	<.1	<.05	6	.5
MC-284	.4	23.1	4.0	61	.1	44.2	16.6	731	3.31	6.4	1.0	<.5	1.1	126	.1	.3	<.1	76	.98	.101	17	40.4	1.10	250	.085	2	2.52	.036	.06	<.1	.03	6.6	.1	<.05	6	<.5
MC-285	.4	26.6	3.2	53	.1	44.2	13.7	755	3.11	3.2	.5	2.4	1.1	101	.1	.4	<.1	81	.85	.057	16	50.4	1.05	124	.113	5	2.25	.051	.09	<.1	.03	7.2	<.1	<.05	6	<.5
MC-286	.7	24.9	3.6	54	.1	34.0	14.5	567	3.00	26.1	1.3	3.5	1.2	119	<.1	.7	<.1	77	.80	.060	10	43.8	1.06	244	.111	1	1.96	.054	.07	<.1	.02	5.5	.1	<.05	5	<.5
MC-287	.7	21.7	3.2	51	<.1	28.9	12.9	502	2.65	23.2	1.1	3.5	1.1	120	.1	.7	<.1	72	.74	.055	9	40.9	1.02	225	.111	1	1.80	.051	.07	<.1	.01	4.7	<.1	<.05	5	<.5
MC-288	.4	26.7	4.2	60	.1	46.6	17.5	618	3.51	4.3	.9	1.0	1.2	124	.1	.1	.1	93	1.07	.060	10	59.9	1.51	115	.143	1	2.78	.073	.06	<.1	.01	8.1	<.1	<.05	7	<.5
MC-289	.4	21.3	3.9	53	.1	45.1	17.8	563	3.28	4.0	.8	1.1	1.1	114	.1	.2	<.1	86	.94	.065	10	55.3	1.72	83	.129	1	2.54	.069	.06	<.1	.02	7.7	<.1	<.05	6	<.5
MC-290	.6	21.3	4.1	61	<.1	45.0	17.6	648	3.31	10.1	.9	3.1	1.2	126	.1	.5	<.1	88	.87	.081	12	47.5	1.56	158	.137	2	2.18	.054	.08	<.1	.02	6.2	<.1	<.05	6	<.5
MC-291	.4	25.3	3.0	55	<.1	36.7	14.9	724	3.02	4.0	.5	.8	1.4	104	.1	.5	<.1	82	.73	.074	11	53.1	.97	105	.111	4	1.91	.062	.08	<.1	.02	7.3	<.1	<.05	5	<.5
MC-292	.5	15.7	4.3	51	<.1	13.8	8.7	477	1.97	4.0	.5	<.5	1.5	188	.1	.2	.1	55	.79	.044	16	22.6	.55	218	.033	4	1.73	.056	.10	<.1	.05	4.6	.1	<.05	5	<.5
MC-293	.6	28.8	4.2	76	.1	49.2	19.4	1417	3.42	5.5	1.0	.6	1.4	172	.1	.3	.1	84	.99	.091	19	45.5	1.14	255	.100	3	2.74	.050	.08	<.1	.03	8.9	.1	<.05	7	<.5
MC-294	.4	22.0	3.5	69	<.1	29.7	13.9	606	2.98	10.5	1.2	.5	1.5	111	.1	.9	<.1	93	.85	.080	11	45.7	.91	190	.121	3	1.88	.046	.07	<.1	.02	5.6	<.1	<.05	5	<.5
MC-295	.4	32.8	3.1	64	<.1	50.1	18.7	729	3.53	3.1	.4	.5	1.4	106	.1	.4	<.1	110	.92	.083	12	66.6	1.45	104	.125	2	1.72	.089	.07	<.1	.01	6.9	<.1	<.05	5	<.5
MC-296	.6	27.6	2.9	61	<.1	38.3	14.9	637	2.99	4.4	.4	.9	1.3	90	<.1	.4	<.1	89	.79	.072	12	50.6	1.05	110	.118	3	1.72	.064	.08	<.1	.01	6.9	<.1	<.05	5	.5
MC-297	.3	25.3	2.8	45	<.1	37.3	13.9	446	2.90	2.3	2.8	1.0	.9	121	.1	.3	.1	105	.96	.031	7	82.2	1.03	70	.171	11	1.48	.101	.05	<.1	.01	5.2	<.1	<.05	4	.7
MC-298	.4	20.4	3.7	53	<.1	33.7	15.7	2510	3.08	4.6	.8	<.5	.8	106	.1	.3	<.1	101	.84	.080	8	51.5	.63	250	.120	6	1.83	.060	.08	<.1	.03	5.3	<.1	<.05	5	.5
MC-299	.6	40.8	3.1	70	<.1	34.1	16.7	804	3.30	6.4	.6	1.2	1.1	77	.1	.5	<.1	90	.77	.068	14	48.0	.99	151	.113	5	2.06	.049	.08	<.1	.01	7.0	<.1	<.05	6	<.5
MC-300	.7	41.0	3.5	52	<.1	34.0	16.4	785	3.07	4.0	.9	<.5	1.2	78	.1	.3	<.1	83	.75	.064	14	49.1	1.00	138	.117	4	2.05	.045	.06	<.1	.01	7.3	<.1	<.05	5	<.5
MC-301	1.9	26.9	2.5	59	<.1	21.5	11.7	521	2.71	2.9	.7	<.5	.8	53	.1	.5	<.1	73	.66	.068	7	30.9	.72	135	.090	3	1.66	.023	.06	<.1	.01	4.5	<.1	<.05	5	.5
STANDARD	12.4	148.9	24.4	136	.3	25.1	11.8	776	3.02	19.0	5.8	41.4	2.7	49	5.3	3.8	6.2	60	.75	.094	12	185.1	.68	135	.094	17	2.04	.034	.15	5.3	.16	3.4	1.0	<.05	7	5.0

Standard is STANDARD DS5.
GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: STREAM SED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA DATE RECEIVED: AUG 25 2004 DATE REPORT MAILED: Sept. 13/04...

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6 53-1716
(1 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-3 File # A404949

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm
MC-S97	3.7	34.6	3.2	55	<.1	34.1	17.7	554	4.28	20.1	.9	5.2	1.8	87	.1	1.5	.1
MC-S98	9.0	35.3	2.8	55	.1	33.3	19.1	569	5.01	23.7	1.1	16.3	2.0	86	<.1	2.0	.1
MC-S99	5.6	49.5	3.4	56	.1	36.9	19.2	739	4.14	55.2	1.0	15.9	1.8	89	<.1	2.9	.1
MC-S100	2.8	35.8	3.4	60	.1	35.2	20.1	959	4.64	24.0	.7	22.8	1.6	82	.1	1.0	.1
MC-S101	5.5	26.3	3.6	78	.1	21.1	15.7	692	3.69	181.5	.7	94.0	1.6	76	<.1	4.7	<.1
MC-S102	9.2	9.4	1.4	53	<.1	10.5	9.7	577	2.19	164.7	.5	32.3	1.0	47	<.1	3.9	<.1
MC-S103	13.3	11.7	2.3	45	<.1	8.4	6.9	379	1.92	291.7	.7	26.0	1.0	39	<.1	12.3	<.1
MC-S104	11.0	15.4	3.2	87	.1	18.0	16.6	727	3.37	270.2	.7	66.9	1.2	54	<.1	9.0	<.1
MC-S105	10.5	18.3	2.8	81	<.1	12.3	12.8	519	3.10	182.9	.4	48.4	1.4	45	<.1	4.8	<.1
MC-S106	5.6	24.1	5.6	54	<.1	21.7	13.3	563	3.83	100.8	.8	61.8	1.6	74	<.1	6.5	.1
RE MC-S106	5.3	24.7	5.2	53	<.1	21.8	13.3	562	3.94	97.6	.8	65.7	1.6	71	<.1	6.7	.1
MC-S107	1.0	24.2	2.9	112	<.1	12.4	13.5	957	5.58	10.9	.3	1.3	1.0	50	.1	.5	.1
MC-S108	.2	58.5	2.3	93	<.1	145.2	48.9	738	5.24	7.0	.3	1.8	1.3	163	.1	.1	<.1
STANDARD DS5	12.7	142.4	25.7	139	.3	24.2	12.7	796	3.06	18.3	6.1	45.0	2.8	44	5.5	3.8	6.0

SAMPLE#	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
MC-S97	107	.56	.067	11	46.6	.78	118	.119	1	1.99	.048	.08	<.1	.06	10.5	.1	<.05	6	<.5
MC-S98	103	.55	.079	12	43.6	.73	137	.091	1	1.94	.041	.05	<.1	.06	11.5	.1	<.05	5	.7
MC-S99	108	.66	.079	11	50.2	.89	146	.110	2	2.11	.059	.10	<.1	.04	11.9	.3	<.05	5	<.5
MC-S100	115	.82	.095	12	44.4	.93	167	.112	4	1.83	.068	.09	<.1	.03	12.8	.1	<.05	5	.5
MC-S101	89	.76	.128	8	29.3	.86	122	.030	2	1.69	.012	.12	.1	.09	6.0	.2	<.05	7	<.5
MC-S102	57	.82	.124	6	13.7	.86	83	.008	1	1.52	.007	.14	.1	.11	4.5	.3	<.05	6	<.5
MC-S103	29	.64	.110	6	7.2	.44	106	.008	2	1.07	.004	.17	.2	.02	1.6	.2	<.05	4	<.5
MC-S104	79	.77	.116	6	20.5	.99	131	.034	2	1.77	.009	.19	.2	.08	5.0	.3	<.05	8	<.5
MC-S105	72	.46	.018	5	13.8	.68	97	.008	1	1.47	.007	.22	.1	.06	4.5	.7	<.05	7	<.5
MC-S106	83	.53	.044	11	39.1	.65	101	.032	3	1.51	.020	.14	.1	.06	7.1	.3	<.05	5	<.5
RE MC-S106	86	.54	.042	12	37.5	.64	106	.031	1	1.53	.020	.14	.1	.07	6.9	.4	<.05	5	<.5
MC-S107	220	.87	.108	12	17.0	.18	262	.004	9	.96	.005	.10	<.1	.16	18.6	.1	<.05	3	.7
MC-S108	121	1.65	.070	7	67.7	.92	67	.031	2	3.83	.295	.06	<.1	.02	22.1	<.1	<.05	8	<.5
STANDARD DS5	61	.73	.092	12	190.6	.68	135	.104	17	1.97	.032	.14	4.9	.17	3.5	1.0	<.05	7	4.6

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

Data ß FA ____ DATE RECEIVED: AUG 25 2004 DATE REPORT MAILED: Sept. 9/04

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-5 File # A406523

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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
SI	<.1	1.9	.7	4	<.1	.4	.1	9	.07	.9	<.1	.8	<.1	2	<.1	<.1	<.1	<1
MC-R222	5.4	105.4	.8	13	.1	3.6	28.4	60	6.09	13.1	.1	1.8	2.1	4	<.1	.4	.1	37
MC-R223	.3	103.8	4.6	91	.1	100.5	36.2	1312	4.36	7.4	.3	.7	.9	277	.2	.4	<.1	131
MC-R224	143.0	89.6	2.8	8	.5	4.5	7.3	42	1.64	563.4	.4	1017.3	.1	17	1.6	40.7	<.1	105
STANDARD DS5	13.1	142.0	25.7	139	.3	24.6	11.9	770	3.01	18.8	6.6	43.0	2.9	45	5.6	3.9	6.4	61

SAMPLE#	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
SI	.06	<.001	<1	1.0	<.01	2	<.001	1	.01	.315	<.01	.3	<.01	.2	<.1	<.05	<1	<.5
MC-R222	.06	.052	6	5.2	.03	17	.004	4	.37	.052	.03	<.1	.06	8.2	.1	3.08	2	2.3
MC-R223	8.39	.071	7	67.7	3.45	222	.038	3	1.90	.323	.05	<.1	.02	18.7	<.1	<.05	4	<.5
MC-R224	.12	.008	2	10.1	.04	286	.001	1	.11	.009	.03	.6	11.59	.6	.4	.43	<1	4.4
STANDARD DS5	.75	.091	12	189.1	.68	135	.099	19	1.97	.034	.14	4.8	.17	3.4	1.2	<.05	7	5.1

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150 60C

Data d **FA** ____ **DATE RECEIVED:** OCT 21 2004 **DATE REPORT MAILED:** Nov 10/04

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-5 File # A406524

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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
G-1	1.5	3.2	2.0	47	<.1	4.4	4.4	566	1.93	<.5	1.6	.6	4.2	77	<.1	<.1	<.1	40
MC-S117	.4	9.6	1.8	36	<.1	23.1	7.5	350	3.50	4.9	.5	1.2	3.5	43	<.1	1.0	<.1	82
MC-S118	5.1	48.6	1.5	49	<.1	11.5	12.6	437	3.61	1.8	.5	<.5	1.5	28	<.1	<.1	<.1	80
MC-S119	2.2	28.5	4.7	59	<.1	16.0	12.5	376	4.06	234.3	1.0	1.0	2.5	38	<.1	.5	<.1	100
STANDARD	12.9	141.6	24.9	138	.3	25.0	12.0	783	2.95	18.5	6.1	42.7	2.8	47	5.4	3.8	5.9	61

SAMPLE#	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
G-1	.50	.080	8	12.9	.60	250	.129	2	.89	.075	.51	1.3	<.01	2.1	.4	<.05	5	<.5
MC-S117	.47	.102	20	34.6	.24	80	.007	2	1.17	.013	.05	<.1	.78	14.8	<.1	<.05	3	<.5
MC-S118	.25	.040	5	17.8	.74	132	.066	<1	1.80	.009	.08	<.1	.04	6.3	<.1	<.05	6	<.5
MC-S119	.15	.169	10	20.1	.51	50	.117	<1	6.70	.021	.05	<.1	.16	6.7	<.1	<.05	11	.6
STANDARD	.74	.090	13	185.9	.66	135	.098	17	1.91	.033	.14	4.9	.19	3.4	1.1	<.05	7	5.0

Standard is STANDARD DS5.

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.

(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.

- SAMPLE TYPE: SOIL SS80 60C

Data ✓ FA ____ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov. 10/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6 253-1716
(I 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT BCR04-5 File # A406525

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm
G-1	1.6	3.1	2.0	49	<.1	4.4	4.6	571	1.99	<.5	1.6	<.5	4.4	80	<.1	<.1	<.1
AC-64	.6	29.0	2.8	44	<.1	7.9	8.1	549	1.85	4.2	.5	1.2	.8	37	<.1	<.1	<.1
AC-65	.7	36.2	3.1	53	<.1	16.4	12.1	679	2.86	5.4	.4	6.5	.8	59	<.1	.2	<.1
AC-66	3.2	43.3	3.0	76	<.1	10.8	10.9	1483	2.56	5.2	1.3	2.0	.2	41	.2	<.1	<.1
MC-302	.4	36.4	3.1	49	<.1	51.9	16.9	449	2.69	<.5	1.4	<.5	1.1	81	<.1	<.1	<.1
MC-303	.4	26.0	3.0	60	<.1	45.9	17.9	622	3.17	.8	.6	<.5	1.7	131	<.1	<.1	<.1
MC-304	.3	28.0	3.9	64	<.1	43.7	15.6	572	3.13	1.3	1.0	1.4	1.6	92	<.1	.3	<.1
MC-305	.4	28.6	3.5	59	<.1	36.6	14.1	458	2.83	2.0	1.1	<.5	1.7	88	<.1	.2	<.1
MC-306	.3	20.3	3.0	55	<.1	37.7	14.6	665	2.65	2.0	.9	<.5	1.6	107	<.1	<.1	<.1
MC-307	.3	25.8	2.9	52	<.1	45.7	16.9	613	3.06	.8	.8	<.5	1.8	107	<.1	<.1	<.1
RE MC-307	.4	25.5	3.0	52	<.1	45.7	15.7	603	2.99	.7	.8	<.5	1.7	105	<.1	<.1	<.1
MC-308	.3	24.7	3.1	62	<.1	44.0	17.6	591	2.96	<.5	.6	<.5	1.7	96	<.1	<.1	<.1
MC-309	.3	23.6	4.0	59	<.1	28.9	13.6	477	2.79	.8	.6	<.5	1.6	67	<.1	<.1	<.1
STANDARD DS5	12.9	141.6	24.9	138	.3	25.0	12.0	783	2.95	18.5	6.1	42.7	2.8	47	5.4	3.8	5.9

SAMPLE#	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
G-1	43	.52	.081	8	14.3	.61	255	.138	<1	.90	.078	.50	1.4	<.01	2.0	.4	<.05	5	<.5	30.0
AC-64	50	.45	.042	5	14.2	.46	75	.023	<1	1.00	.016	.06	<.1	.04	3.0	<.1	<.05	4	<.5	30.0
AC-65	87	.70	.062	7	28.0	.73	68	.081	4	1.15	.030	.06	<.1	.05	4.5	<.1	<.05	4	<.5	30.0
AC-66	61	.66	.058	6	18.5	.54	103	.025	2	1.24	.012	.04	<.1	.07	3.2	<.1	<.05	4	.7	30.0
MC-302	74	1.13	.061	11	24.1	1.40	47	.194	4	1.35	.059	.12	<.1	.02	4.3	<.1	<.05	5	.6	30.0
MC-303	86	.94	.077	14	54.5	1.37	94	.139	2	1.71	.106	.09	<.1	<.01	6.1	<.1	<.05	5	<.5	30.0
MC-304	85	.82	.041	15	50.7	1.08	75	.106	4	1.70	.058	.09	<.1	<.01	7.3	<.1	<.05	5	<.5	7.5
MC-305	78	.90	.055	17	42.2	.97	78	.094	4	1.77	.055	.09	<.1	.03	7.5	<.1	<.05	5	<.5	7.5
MC-306	81	.85	.075	12	36.8	1.16	104	.154	2	1.99	.099	.08	<.1	.02	6.0	<.1	<.05	6	<.5	30.0
MC-307	85	1.00	.061	14	41.8	1.24	113	.144	3	1.92	.102	.09	<.1	.02	7.3	<.1	<.05	5	<.5	15.0
RE MC-307	85	.99	.061	15	40.4	1.21	113	.141	2	1.90	.097	.09	<.1	.02	7.5	<.1	<.05	6	<.5	15.0
MC-308	79	.92	.066	12	33.4	1.38	94	.167	<1	1.85	.088	.10	<.1	<.01	6.6	<.1	<.05	6	<.5	30.0
MC-309	78	.97	.074	15	28.3	1.20	85	.145	2	1.97	.066	.10	<.1	.02	7.0	<.1	<.05	6	<.5	15.0
STANDARD DS5	61	.74	.090	13	185.9	.66	135	.098	17	1.91	.033	.14	4.9	.19	3.4	1.1	<.05	7	5.0	30.0

GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: STREAM SED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ____ DATE RECEIVED: OCT 21 2004 DATE REPORT MAILED: Nov 10/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

APPENDIX C

NICOAMEN RIVER AREA Post-Staking RECON SAMPLE SUMMARY TABLE & ACME ANALYTICAL GEOCHEMICAL & ASSAY CERTIFICATES

NICOAMEN RIVER AREA Post-Staking (2005) RECONNAISSANCE SAMPLE SUMMARY

SAMPLE Number	East NAD 83	North NAD 83	AU ppb	MO ppm	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	SB ppm	BA ppm	HG ppm	Rock or Soil Type	Notes
Stream Sediment Samples														
MC-316	616840	5558500	0.6	0.6	27.6	2.9	60	-0.1	5.4	0.3	246	0.02	Dominantly GD boulders	3-5m channel, sand/gravel base. Strong flow, 325deg
MC-317	616670	5559118	-0.5	0.3	26.6	3.3	72	-0.1	3.1	0.4	167	0.03	GD and BV gravel	0.75-1.25m braided channel. Dry, 255deg. Deep till area
MC-318	616660	5559098	0.6	0.7	40.8	3.1	81	-0.1	7.2	0.9	171	0.03	GD and BV gravel	0.8-1.0m braided channel. Dry, 295deg. Deep till area
MC-319	616230	5559402	-0.5	0.4	25.2	2.8	54	-0.1	5	0.4	125	0.02	GD and BV cobbles	0.75m wide channel, dry. Fine gravel atop clay base. 275deg
MC-320	618010	5557260	-0.5	0.4	18.8	3.7	65	-0.1	5.9	0.4	595	0.07	Local GD outcrop	2-3m bouldery channel, sand/gravel base. Mod flow, 255deg
MC-321	617853	5557147	0.5	0.4	20	3.4	65	-0.1	6.5	0.3	558	0.06	Local GD outcrop	Main trunk, 1.5-3.5m, sand/gravel base, mod flow, 360deg
MC-322	617450	5557643	0.6	0.3	21.4	3.4	59	-0.1	7.3	0.3	442	0.06	Local GD outcrop	Main trunk below MC-321. 4-5m bouldery channel, mod-strong flow, 330deg
Soil Samples														
ZAK-S1	618828	5559165	2.2	0.3	13.8	5.8	47	-0.1	2.7	0.3	342	0.04	Light brown - white clay-rich soil	25-30 cm depth, some contamination from sandy till apron.
ZAK-S2	618843	5559148	1.6	0.1	6.5	4.9	29	-0.1	1	-0.1	667	0.02	White-pale green clayey material	15-25cm depth
ZAK-S3	618860	5559131	0.8	0.4	24.9	3.7	53	-0.1	4.2	0.4	128	0.02	Pale mauve clayey material	10-20cm depth
ZAK-S4	618886	5559128	0.5	0.2	13.1	4.4	27	-0.1	2.4	0.1	442	0.01	Dk red-brown w/ orng streaks, sandy clay	30cm deep, ground seep locale
ZAK-S5	618910	5559128	0.9	0.4	26.5	5.2	76	-0.1	3.4	0.3	88	0.03	Dark red-brown clay-rich layer	20cm thick, decomposed volcanic rubble below
ZAK-S6	618935	5559126	-0.5	0.3	21.7	3.8	55	-0.1	3.1	0.3	128	0.03	Dark brown fine gravel/clay	15-30cm depth, local AV/BV rubble.
ZAK-S7	618959	5559124	1.3	0.3	21	4.3	69	-0.1	3.4	0.2	189	0.03	Dark brown fine gravel/clay	Sfc - 30cm depth
ZAK-S8	618965	5559100	-0.5	0.5	18.9	6.1	73	-0.1	4.6	0.3	62	0.01	Dark red-brown clayey material	Sfc - 30cm depth
ZAK-S9	618966	5559076	-0.5	0.3	20.6	5.1	51	-0.1	2	0.1	100	0.03	Dark brn & rusty orng-brn fine gravel/clay	Sfc - 30cm depth
ZAK-S10	618973	5559051	1.7	0.5	30.7	4	56	-0.1	6.1	0.4	166	0.03	Rusty orange-brown fine gravel/clay	10-25cm depth
ZAK-S11	618977	5559027	1.1	0.6	28.4	5.3	86	-0.1	7	0.5	187	0.03	Dark brown fine gravel/clay	5-25cm depth
ZAK-S12	618982	5559002	1.8	0.3	31.4	4	56	-0.1	3.1	0.3	112	0.02	Dark brown fine gravel/clay	10-25cm depth
ZAK-S13	618994	5558980	1.8	0.4	30.1	3.8	55	-0.1	3	0.2	116	0.02	Dark brown fine gravel/clay - silt	5-30cm depth
ZAK-S14	619012	5558963	1.8	0.3	32.3	4	53	-0.1	3.3	0.2	117	0.02	Orange-brown fine gravel/clay	10-20cm depth
ZAK-S15	619030	5558945	1.6	0.4	27.4	3.6	56	-0.1	3.7	0.4	129	0.02	Medium brown fine gravel/clay	15-40cm depth
ZAK-S16	619160	5558627	16.2	2.7	28.5	5.3	61	-0.1	62.2	1.7	198	0.04	Med brn to dk red-brn decomposed GD	Sfc-20cm depth local draping of angular talus lt-med gy intermed tuff, looks like EK
ZAK-S17	619135	5558629	1	0.6	34.5	4.8	56	-0.1	5.9	0.2	162	0.03	Red-brown fine gravel/clay	Sfc - 25cm depth
ZAK-S18	619110	5558631	2.3	0.5	32.5	3.9	54	-0.1	4.7	0.2	163	0.02	Red-brown fine gravel/clay	10-30cm depth
ZAK-S19	619085	5558632	1.2	0.5	31.2	3.9	53	-0.1	8.8	0.2	183	0.02	Red-brown fine gravel/clay	Sfc - 25cm, local angular grey tuff rubble.
ZAK-S20	619060	5558634	10.6	0.7	13.1	4.1	74	-0.1	39.8	1.2	124	0.02	Decomposed red-brown GD	Sfc - 30cm+
ZAK-S21	619233.1	5558603	0.8	3.2	23.3	7.6	67	0.1	8.7	0.3	120	0.02	Rusty orange-brown clay-silt	30-40cm, surficial light grey platey EK tuff rubble
ZAK-S22	619233	5558608	0.5	8.7	25.1	10.7	54	0.2	33.1	0.3	154	0.04	Rusty orange-brown clay-silt	15-25cm. Altered GD with QV chips.
ZAK-S23	619233	5558613	5.8	5	30.5	6.8	62	-0.1	63.7	0.4	213	0.04	Red-brown clay-rich material	10-20cm depth
ZAK-S24	619232.8	5558618	6.6	1.5	27	6.4	31	-0.1	22.5	0.6	208	0.02	Med brown clay-silt	10-25cm depth
ZAK-S25	619233	5558623	3.5	1.1	27.5	5.5	34	-0.1	15.1	0.6	223	0.02	Med brown clay-silt	10-25cm depth
ZAK-S26	619232.7	5558628	9.8	2	20.5	5.1	41	-0.1	36.9	2.2	200	0.01	Light brown clay-silt	15-25cm, red-brown altered GD in hole
ZAK-S27	619232.7	5558633	14.7	2.6	16.2	6.7	48	-0.1	52	1.4	163	0.02	Dk red-brown to orng-brn fine gravel/clay	7-20cm, silic GD chips in hole
ZAK-S28	619232.6	5558638	27.2	3.9	22.9	6	78	-0.1	191.5	4.8	262	0.02	Dark red-brn to orng-brn fine gravel/clay	Sfc-5cm, at top edge of road cut
ZAK-S29	619232.3	5558658	4.8	3.8	14.6	5	97	0.1	75.9	2.7	147	0.02	Dark red-brown fine gravel/clay	15-40cm depth
ZAK-S30	619232.2	5558663	8.4	3.2	11	4.7	61	-0.1	53.3	1.7	104	0.01	Dark red & orange-brown fine gravel/clay	Sfc-25cm depth
ZAK-S31	619232.1	5558673	7.2	4.3	10.8	4.2	87	0.2	104.9	3.4	91	0.02	Dark red & orange-brown fine gravel/clay	Sfc-25cm, tabular piece banded QV float - 3cm thick
ZAK-S32	619232	5558683	10.3	4.6	11.9	4	109	0.2	125.6	3.8	118	0.03	Dark red & orange-brown fine gravel/clay	Sfc-25cm, within 0.5m another piece banded white/grey QV - 2.5-3.5cm thick
ZAK-S33	619231.8	5558693	5.8	3.6	11.6	4.8	118	0.4	95.2	2.9	131	0.03	Dark red & orange-brown fine gravel/clay	5-25cm depth, QV chips near surface, 1-2cm width
ZAK-S34	619231.8	5558703	3.1	1.5	10.5	6.3	51	0.2	24.6	0.5	115	0.03	Dark red & orange-brown fine gravel/clay	10-25cm depth, 2cm thick QV chip in hole
ZAK-S35	619231.6	5558713	2.5	1.5	19	4.2	56	0.1	14.2	0.3	175	0.04	Dark red & orange-brown fine gravel/clay	15-35cm depth, altere GD zone apparently continues down slope to North
ZAK-S36	619231.5	5558723	2.9	1.1	16.2	5.1	55	0.1	11.3	0.3	104	0.03	Brown clayey material	20cm depth
ZAK-S37	619231.4	5558733	3.2	1.4	18.6	4.9	73	0.2	31.4	0.7	211	0.03	Yellow-brown clayey material	20cm depth
ZAK-S38	619231.2	5558743	1	1.6	19.9	4	43	-0.1	4.9	0.2	184	0.02	Yellow-brown clayey material	20cm depth
ZAK-S39	616952	5559255	0.7	3	30	3.9	80	-0.1	5.1	0.5	191	0.03	Orange-brown clay-silt	30-50cm depth, local rubble, subcrop is sheared/alt'd QFR as at the WZ Trench.
ZAK-S40	616940	5559245	0.9	1	61.2	2.8	64	-0.1	9	0.4	107	0.02	Rusty orange-brown clayey material	30cm depth, local rubble, subcrop is sheared/alt'd QFR as at the WZ Trench.
ZAK-S41	616800	5558860	1.6	0.4	34.5	3.1	55	-0.1	5.2	0.4	147	0.03	Brown clay-silt	5-20cm depth
ZAK-S42	616813	5558881	2.7	0.4	30.5	2.6	46	-0.1	4.8	0.5	170	0.02	Yellow brown clay-silt	5-20cm depth
ZAK-S43	616823	5558904	5.5	0.7	36.2	3.2	56	-0.1	13.7	0.8	207	0.03	Brown clay-silt	5-20cm depth
ZAK-S44	616828	5558928	1.8	0.7	35.6	3.2	56	-0.1	9.6	0.8	139	0.03	Yellow brown clay-silt	5-20cm depth
ZAK-S45	616820	5558961	2.1	1.4	43.5	3	72	-0.1	10.4	1.5	231	0.04	Yellow brown clay-silt	5-20cm depth
ZAK-S46	616827	5558985	22.5	1.9	98.4	1.3	62	-0.1	135.5	1.4	99	0.08	Rusty yellow brown clay-silt	5-20cm depth
ZAK-S47	616833	5559009	14.8	2.3	97.4	2.3	57	-0.1	30.8	2.1	180	0.1	Yellow brown clay-silt	5-20cm depth
ZAK-S48	616842	5559032	21.5	11.8	101.6	2.1	47	0.1	38.5	1.5	187	0.15	Yellow brown clay-silt	5-20cm depth
ZAK-S49	616852	5559055	73.3	5	91.8	4.7	86	0.1	79.2	4.6	101	0.91	Orange-brown clay-silt	5-20cm depth
ZAK-S50	616873	5559062	13.1	1.4	37.5	4.3	73	-0.1	10.4	2.1	256	0.04	Brown clay-silt	5-20cm depth
ZAK-S51	616896	5559054	0.8	1	28.7	5.3	105	-0.1	9.9	1.6	143	0.04	Red-brown clay-silt	5-20cm depth
ZAK-S52	616924	5559046	1.1	0.7	58.6	3.2	79	-0.1	19.8	1	229	0.03	Yellow-brown clay-silt	5-20cm depth

NICOAMEN RIVER AREA Post-Staking (2005) RECONNAISSANCE SAMPLE SUMMARY

SAMPLE Number	East NAD 83	North NAD 83	AU ppb	MO ppm	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	SB ppm	BA ppm	HG ppm	Rock or Soil Type	Notes
Soil Samples														
ZAK-S53	616944	5559062	0.9	0.4	29.4	3.3	58	-0.1	4.3	0.3	141	0.02	Brown clay-silt	5-20cm depth
ZAK-S54	616940	5559087	2.3	0.6	29.7	3	52	-0.1	9.4	0.5	202	0.02	Brown clay-silt	5-20m depth
ZAK-S55	616938	5559112	2.2	0.5	27.9	3	48	-0.1	6.6	0.5	197	0.03	Brown clay-silt	5-20m depth
ZAK-S56	616937	5559151	0.8	0.5	30.4	3.8	67	-0.1	5.5	0.4	211	0.02	Brown clay-silt	5-20m depth, location is 18m south of MC-S97.
Rock Samples														
ZAK-R1	619249	5558631	659.6	23.5	95.8	0.5	3	0.4	46.7	4.4	1698	0	QZ Adularia(?) vein float; GD clasts	Opaque wht & pale gy chalcedony. Chips from 11x19x23cm cobble. Discovery Zone
ZAK-R2	619439	5558135	217.1	6.6	20.3	1.3	5	0.5	55.9	3.7	22	0.41	Chalced QV rubble w/ attached alt'd GD	Composite of 3 pieces float; largest 5.5x5.5x8cm
ZAK-R3	619071	5558636	689.5	6.4	39.2	0.7	6	0.7	87.1	5.3	303	2.35	Chalced QV rubble w/ attached alt'd GD	Composite of 3 pieces ang rubble; vein widths 8.5-11cm. Discovery Zone
ZAK-R4	619184	5558644	1176.1	54.7	9.2	1	7	1	103	8.3	39	0.47	Chalcedonic QV+ altered GD hostrock	Composite of ~25 pcs angular rubble near MC-190 & MC-S101. Discovery Zone

NOTE: QFR = Quartzofeldspathic rock; SI = silica; AK = ankerite; CB = carbonate; BV = basaltic volcanic; AV = andesitic volcanic; GD = granodiorite; DI = diorite; GR = granite; QZ = quartz; QV = quartz vein; QVlts = quartz veinlets; QZCB = quartz carbonate; sfc = surface

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(60[illegible]53-1716
(I[illegible]9002 Accredited Co.)

GEOCHEMICAL ANA[illegible]SIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-1 File # A500600

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
ZAK-R1	23.5	95.8	.5	3	.4	1.2	.5	64	.48	46.7	.1	659.6	.2	44	<.1	4.4	<.1	12	.12	.004	1	23.0	.05	1968	.001	1	.24	.004	.09	.6	.44	.6	<.1	<.05	1	<.5
STANDARD	11.5	125.2	28.7	145	.3	25.4	10.5	720	2.86	21.4	6.7	45.1	2.9	37	5.9	3.6	4.9	57	.87	.081	14	187.1	.59	170	.083	18	1.95	.075	.16	3.5	.24	3.3	1.7	<.05	6	4.4

Standard is STANDARD DS6.
GROUP 1DX - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: Rock R150

Data ✓ FA ____ DATE RECEIVED: FEB 17 2005 DATE REPORT MAILED: Feb 22/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

ACME AN[illegible]TICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6[illegible]53-1716
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GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-2 File # A505953 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
G-1	.8	2.1	3.3	38	<.1	6.1	3.7	480	1.65	<.5	2.5	2.1	3.9	62	<.1	<.1	.1	32	.51	.077	9	78.7	.46	173	.100	1	.81	.082	.40	.1	<.01	2.6	.3	<.05	5	<.5	15.0
16800E 10000N	.3	19.4	5.0	55	<.1	24.8	11.1	383	3.18	.7	.4	1.1	1.1	69	.1	.1	.1	75	.52	.023	4	51.6	.60	98	.192	2	2.24	.080	.06	<.1	.01	4.9	<.1	<.05	7	<.5	15.0
16800E 9950N	.2	22.5	4.1	47	<.1	29.5	13.2	451	3.44	1.1	.4	1.1	1.5	92	.2	<.1	.1	61	.81	.025	9	56.0	.97	98	.147	5	2.34	.088	.07	<.1	.02	7.7	<.1	<.05	7	<.5	7.5
16800E 9900N	.3	17.0	6.1	76	<.1	25.2	9.2	483	2.51	<.5	.3	1.2	.6	57	.1	<.1	.1	62	.33	.048	2	49.7	.43	91	.199	1	2.43	.051	.09	<.1	.01	2.8	<.1	<.05	7	<.5	15.0
16800E 9850N	.2	17.7	6.5	58	<.1	23.0	8.2	330	2.51	.7	.7	.6	1.3	89	<.1	.1	.1	57	.58	.029	11	41.7	.56	83	.180	3	2.21	.085	.07	<.1	.01	5.6	<.1	<.05	7	<.5	15.0
16800E 9800N	.4	17.4	5.8	91	<.1	28.9	11.0	334	2.73	.8	.3	.8	.7	68	.1	.1	.1	66	.37	.084	3	44.6	.42	116	.179	1	2.70	.036	.09	<.1	.01	3.0	<.1	<.05	8	<.5	15.0
16800E 9750N	.5	15.4	7.1	97	<.1	26.4	10.3	819	2.32	.6	.3	.6	.7	59	.1	.1	.1	55	.38	.077	4	34.3	.38	111	.125	2	2.34	.045	.11	<.1	.01	2.7	<.1	<.05	8	<.5	15.0
16800E 9700N	.2	15.2	6.8	79	<.1	26.2	8.2	232	2.16	.5	.4	3.5	.8	61	.1	.1	.1	50	.38	.034	5	32.8	.40	111	.160	1	2.09	.046	.07	<.1	.01	3.0	<.1	<.05	7	<.5	15.0
16800E 9650N	.2	17.8	5.3	47	<.1	25.1	8.5	246	1.98	.5	.6	<.5	1.0	80	.1	.1	.1	44	.55	.052	14	34.5	.53	83	.134	2	2.19	.065	.07	<.1	.01	4.9	<.1	<.05	6	<.5	7.5
16800E 9600N	.2	15.0	5.2	61	<.1	17.5	6.6	344	1.99	.8	.4	1.0	.8	73	<.1	.1	.1	45	.54	.042	7	30.9	.36	72	.133	3	1.64	.090	.09	<.1	.01	3.6	<.1	<.05	5	<.5	15.0
16800E 9550N	.4	21.9	5.3	94	<.1	42.3	14.5	309	3.22	1.2	.3	.8	.9	56	.1	.1	.1	73	.34	.108	3	49.0	.51	147	.161	2	3.61	.030	.07	<.1	.01	3.7	<.1	<.05	10	<.5	15.0
16800E 9500N	.5	19.1	5.7	72	<.1	28.4	12.0	662	2.66	1.5	.3	1.3	.9	59	<.1	.2	.1	62	.40	.059	4	41.2	.47	103	.170	1	2.25	.046	.08	<.1	.02	3.7	<.1	<.05	7	<.5	15.0
16800E 9450N	.4	20.1	5.2	84	<.1	24.4	9.8	1241	2.38	1.9	.2	<.5	.8	94	.1	.1	.1	59	.96	.115	4	36.2	.42	114	.151	6	1.90	.068	.21	<.1	.01	3.0	<.1	<.05	7	<.5	15.0
16800E 9400N	.3	19.5	5.4	89	<.1	35.8	11.7	535	2.95	1.3	.3	1.4	.9	69	.1	.1	.1	69	.45	.135	3	47.5	.47	148	.178	2	2.71	.048	.12	<.1	.02	3.7	<.1	<.05	9	<.5	15.0
RE 16800E 9300N	.3	22.0	4.4	67	<.1	32.9	11.7	383	3.22	1.3	.3	1.1	.9	73	.1	.1	.1	81	.43	.102	3	50.7	.45	147	.182	2	2.90	.050	.09	<.1	.01	3.9	<.1	<.05	8	<.5	15.0
16800E 9350N	.2	11.7	5.5	63	<.1	17.4	5.6	271	1.73	<.5	.3	<.5	.7	45	<.1	.1	.1	41	.31	.025	6	27.1	.30	67	.136	1	1.64	.044	.05	<.1	.01	2.8	<.1	<.05	5	<.5	15.0
16800E 9300N	.3	21.1	4.3	64	<.1	31.8	11.7	379	3.14	1.4	.3	<.5	.9	71	<.1	.1	.1	81	.44	.103	3	48.4	.45	144	.178	1	2.79	.051	.09	<.1	.02	3.9	<.1	<.05	8	<.5	15.0
16800E 9250N	.5	21.1	4.9	71	<.1	31.5	12.1	414	3.08	1.7	.3	<.5	1.0	77	<.1	.1	.1	78	.47	.082	4	47.4	.56	140	.193	1	3.04	.050	.12	<.1	.01	4.3	<.1	<.05	9	<.5	15.0
16800E 9200N	.4	21.4	5.7	190	<.1	31.7	12.4	747	2.58	2.8	.3	<.5	1.0	39	.1	.1	.1	56	.31	.245	4	39.4	.46	257	.129	2	2.86	.041	.10	<.1	.03	3.4	<.1	<.05	9	<.5	15.0
16800E 9150N	.5	25.0	4.8	78	<.1	38.3	13.3	432	3.55	2.7	.4	<.5	1.0	76	<.1	.2	.1	90	.50	.062	4	51.4	.72	264	.177	2	3.22	.048	.08	<.1	.01	4.4	<.1	<.05	8	<.5	15.0
16800E 9100N	.4	26.5	3.9	77	<.1	43.6	15.4	412	3.47	4.2	.4	.9	1.3	70	<.1	.2	.1	83	.49	.130	4	54.5	.83	192	.142	2	4.21	.057	.12	<.1	.02	6.7	<.1	<.05	10	<.5	15.0
16800E 9050N	.4	16.5	5.4	84	<.1	33.3	11.6	537	2.36	2.7	.3	.7	.8	34	.1	.1	.1	47	.27	.213	3	34.9	.46	131	.116	2	2.89	.032	.10	<.1	.02	3.3	<.1	<.05	9	<.5	15.0
16800E 9000N	.4	23.3	3.6	60	<.1	32.2	14.6	424	3.25	3.8	.3	<.5	.9	86	<.1	.2	<.1	84	.56	.110	4	53.5	.60	117	.135	2	2.40	.085	.07	<.1	.01	6.0	<.1	<.05	7	<.5	15.0
16800E 8950N	1.1	107.0	5.1	91	.1	40.7	17.7	1011	3.67	13.3	.6	<.5	1.4	80	.3	1.1	.1	82	.90	.031	17	42.9	.84	224	.122	4	2.88	.068	.07	<.1	.05	10.3	.1	<.05	9	.8	7.5
16800E 8900N	.4	36.7	6.8	250	<.1	36.0	14.9	1357	3.58	7.7	1.0	<.5	1.1	58	.5	1.6	.2	77	.76	.252	5	46.1	.88	196	.120	3	3.80	.030	.06	.1	.03	6.0	.1	<.05	11	<.5	15.0
16800E 8850N	.3	17.9	11.6	148	<.1	25.2	11.7	394	2.69	2.5	.3	<.5	.7	58	.3	.3	.1	63	.45	.057	3	39.3	.53	122	.141	3	2.27	.058	.08	<.1	.01	3.4	<.1	<.05	8	<.5	15.0
16800E 8800N	.5	25.1	4.2	73	<.1	34.2	14.7	532	3.24	4.7	.4	<.5	1.1	66	.1	.3	.1	83	.46	.122	4	46.3	.73	155	.151	3	2.96	.039	.09	<.1	.02	4.8	<.1	<.05	9	<.5	15.0
16800E 8750N	.5	25.5	4.5	66	<.1	32.2	14.2	311	2.77	3.4	.5	<.5	1.1	63	<.1	.2	.1	70	.49	.114	8	42.4	.61	127	.130	2	3.12	.038	.08	<.1	.03	5.8	<.1	<.05	10	<.5	15.0
16800E 8700N	.6	16.0	4.8	82	<.1	27.9	12.2	908	2.28	5.1	.2	<.5	.7	29	.1	.2	.1	56	.24	.219	3	32.1	.36	108	.102	2	2.41	.026	.07	<.1	.03	2.6	<.1	<.05	9	<.5	15.0
16800E 8650N	.3	23.5	3.3	53	<.1	31.2	11.3	319	2.75	2.9	.3	<.5	.8	51	.1	.2	.1	67	.36	.089	3	40.5	.53	105	.110	2	2.17	.039	.09	<.1	.01	3.6	<.1	<.05	7	<.5	15.0
16800E 8600N	.6	21.3	3.6	73	<.1	16.4	11.1	509	3.08	4.8	.4	<.5	.8	60	.1	.3	.2	79	.42	.292	4	35.7	.46	253	.085	2	1.72	.026	.10	<.1	.03	3.6	<.1	<.05	7	<.5	15.0
16800E 8550N	.6	37.1	3.5	57	<.1	39.9	18.8	736	3.61	6.3	.5	1.0	1.4	102	.1	.2	.1	92	.71	.092	11	47.7	1.06	137	.114	4	2.28	.072	.10	<.1	.02	8.5	.1	<.05	8	<.5	7.5
16800E 8500N	.5	27.3	3.3	52	<.1	31.6	13.6	424	3.25	4.5	.4	<.5	1.1	76	.1	.3	.1	87	.46	.071	5	47.4	.65	139	.122	2	2.55	.038	.07	<.1	.01	4.6	<.1	<.05	8	<.5	15.0
16800E 8450N	.5	17.7	4.8	71	<.1	20.8	10.7	685	2.44	4.6	.3	<.5	.8	35	.1	.2	.1	62	.25	.270	3	34.9	.36	119	.093	2	2.04	.021	.06	<.1	.03	2.6	<.1	<.05	8	<.5	15.0
16800E 8400N	.4	26.2	4.0	68	<.1	26.2	10.6	922	2.47	2.1	.8	<.5	.9	73	.1	.3	.1	62	.53	.045	21	32.3	.64	102	.105	2	1.90	.041	.06	<.1	.02	6.0	.1	<.05	7	<.5	15.0
STANDARD DS6	11.5	121.9	29.3	145	.3	25.2	10.8	711	2.85	21.3	6.6	44.8	3.2	42	5.9	3.4	5.0	57	.88	.081	15	193.3	.61	166	.086	17	1.97	.080	.17	3.3	.23	3.5	1.7	<.05	7	4.4	15.0

GROUP 1DX - 15 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: SEP 20 2005 DATE REPORT MAILED: Oct 18/05

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL

Almaden Minerals Ltd. PROJECT NR05-2 FILE # A505953

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au 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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
16800E 8350N	.6	28.4	3.8	73	<.1	35.0	16.3	492	3.34	5.3	.4	.7	1.0	51	.1	.5	.1	89	.33	.169	3	38.8	.69	138	.116	2	3.05	.024	.09	<.1	.02	4.1	<.1	<.05	9	<.5	15.0
16800E 8300N	.4	34.7	3.0	55	<.1	33.6	15.7	566	3.34	5.2	.5	2.8	1.3	85	.1	.2	<.1	83	.62	.074	10	38.5	1.05	121	.076	1	1.98	.042	.07	<.1	.02	7.9	<.1	<.05	6	<.5	7.5
16800E 8250N	.8	21.7	3.7	68	<.1	32.9	13.0	400	2.94	4.0	.4	1.0	.8	49	.1	.4	.1	74	.30	.130	3	36.1	.62	201	.108	2	2.89	.027	.07	<.1	.02	3.5	<.1	<.05	8	<.5	15.0
16800E 8200N	1.7	30.6	3.4	64	<.1	30.8	13.7	336	3.06	5.7	.6	.8	1.0	45	<.1	1.7	.1	80	.32	.076	4	36.4	.55	245	.119	2	2.66	.032	.10	.1	.02	3.8	<.1	<.05	8	<.5	15.0
16800E 8150N	3.8	19.2	4.2	47	<.1	23.4	11.3	406	2.58	2.4	1.6	1.7	.8	59	.1	.4	.1	69	.44	.031	4	32.9	.63	201	.133	2	2.00	.037	.08	<.1	.01	3.0	<.1	<.05	6	<.5	15.0
16800E 8100N	3.1	22.0	4.1	70	<.1	23.6	11.6	393	2.44	3.4	.7	8.6	.8	40	.1	.3	.1	61	.32	.149	3	28.6	.39	213	.099	2	2.23	.024	.06	.1	.03	2.8	<.1	<.05	8	<.5	15.0
16800E 8050N	2.4	22.5	4.8	70	<.1	26.1	11.4	333	2.48	2.9	1.1	1.7	.9	33	.1	.2	.1	56	.33	.164	3	29.9	.44	161	.103	2	2.48	.017	.08	<.1	.05	2.7	<.1	<.05	9	<.5	15.0
16800E 8000N	1.4	36.0	5.9	73	.1	30.6	12.8	442	2.97	4.6	1.1	1.2	1.1	29	.1	.3	.1	69	.25	.129	4	35.8	.56	213	.122	2	3.50	.019	.06	.1	.06	3.4	<.1	<.05	11	<.5	15.0
16800E 7950N	.8	26.5	5.5	64	<.1	31.7	13.0	344	2.99	3.0	.5	2.4	1.3	26	.1	.3	.1	72	.19	.070	4	38.3	.65	209	.131	2	3.65	.017	.05	<.1	.04	3.4	.1	<.05	10	<.5	15.0
16800E 7900N	.4	8.4	4.7	86	<.1	9.3	8.1	630	2.00	1.1	.4	2.2	2.8	15	.1	.1	.1	54	.18	.128	4	15.7	.56	160	.181	1	1.30	.016	.07	<.1	.02	2.7	.1	<.05	11	<.5	15.0
16800E 7850N	.3	26.4	3.8	72	<.1	27.7	14.1	540	3.19	3.7	.8	1.1	2.5	55	<.1	.2	.1	80	.39	.089	8	35.5	1.05	250	.140	2	3.14	.016	.13	<.1	.02	4.9	.1	<.05	11	<.5	15.0
RE 17000E 10000N	.3	15.8	4.8	78	<.1	28.4	9.6	307	2.44	1.7	.5	1.5	.7	42	<.1	<.1	.1	56	.33	.078	2	38.1	.41	130	.119	2	2.68	.040	.07	<.1	.01	3.3	<.1	<.05	7	<.5	15.0
16800E 7800N	.8	20.8	4.2	77	<.1	29.3	12.0	341	3.14	4.7	.9	.5	2.0	104	.1	.2	.1	71	.26	.153	5	37.6	.75	392	.146	2	3.35	.013	.06	.1	.07	3.2	.1	<.05	11	<.5	15.0
17000E 10000N	.3	16.8	4.4	81	<.1	29.2	9.6	302	2.48	1.7	.3	1.9	.7	43	.1	.1	.1	56	.36	.079	2	39.6	.43	131	.126	2	2.82	.048	.07	<.1	.02	3.4	<.1	<.05	8	<.5	15.0
17000E 9950N	.2	20.6	4.7	113	<.1	33.7	12.2	357	3.21	2.8	.4	1.8	1.5	79	.2	.1	.1	59	.70	.036	6	45.3	.78	191	.122	5	2.71	.069	.08	<.1	.01	7.2	<.1	<.05	7	<.5	7.5
17000E 9900N	.4	16.1	6.7	67	<.1	26.4	10.4	696	2.81	2.5	.4	1.5	1.5	72	<.1	.1	.1	62	.61	.039	8	44.1	.50	129	.159	3	2.60	.062	.11	<.1	.02	5.7	<.1	<.05	7	<.5	15.0
17000E 9850N	.4	21.8	4.8	63	<.1	34.2	11.8	287	3.49	3.0	.3	1.3	1.1	69	<.1	.2	.1	86	.44	.077	3	54.9	.57	127	.167	2	3.20	.039	.11	<.1	<.01	4.9	<.1	<.05	8	<.5	15.0
17000E 9800N	.4	22.8	5.6	81	<.1	38.9	13.2	484	3.15	1.3	.5	1.1	1.4	65	.1	.1	.1	71	.41	.069	7	49.3	.65	116	.172	2	3.43	.045	.09	<.1	.02	5.3	<.1	<.05	8	<.5	15.0
17000E 9750N	.3	21.1	5.3	62	<.1	30.8	12.0	438	3.06	1.7	.6	1.4	1.3	100	.1	.1	.1	75	.53	.033	7	49.3	.71	112	.199	1	2.35	.074	.09	<.1	<.01	5.4	<.1	<.05	6	<.5	15.0
17000E 9700N	.3	17.3	5.1	62	<.1	23.0	8.2	367	2.58	1.4	.5	1.1	1.1	93	.1	.1	.1	65	.54	.021	5	41.9	.52	93	.207	1	1.77	.082	.07	<.1	.01	4.1	<.1	<.05	5	<.5	15.0
17000E 9650N	.3	21.4	5.2	91	<.1	39.2	12.6	305	2.98	2.1	.4	.9	1.0	50	.1	.1	.1	69	.35	.113	4	46.9	.58	129	.152	2	3.29	.036	.08	<.1	.01	3.8	<.1	<.05	9	<.5	15.0
17000E 9600N	.3	22.9	5.0	70	<.1	36.8	14.7	382	3.38	1.4	.5	1.8	1.4	69	.1	.1	.1	86	.46	.050	5	53.9	.75	100	.211	2	3.28	.047	.08	<.1	.01	5.2	.1	<.05	8	<.5	15.0
17000E 9550N	.4	16.2	6.4	102	<.1	32.9	10.6	352	2.54	1.1	.3	.5	.8	49	<.1	.1	.1	57	.36	.121	3	38.4	.50	107	.163	2	2.91	.040	.10	<.1	.01	3.0	<.1	<.05	8	<.5	15.0
17000E 9500N	.2	14.5	5.3	60	<.1	21.5	7.3	224	2.50	.8	.3	1.2	.7	64	.1	.1	.1	57	.43	.026	4	42.8	.40	85	.192	1	2.05	.067	.06	<.1	<.01	2.8	<.1	<.05	5	<.5	15.0
17000E 9450N	.4	11.2	5.2	58	<.1	19.2	8.0	205	2.15	.8	.2	1.7	.6	46	<.1	.1	.1	47	.28	.084	2	33.8	.27	99	.153	1	2.08	.040	.07	<.1	.02	2.1	<.1	<.05	6	<.5	15.0
17000E 9400N	.3	17.9	5.5	80	<.1	33.0	10.3	252	2.76	1.5	.3	1.0	.9	53	.1	.1	.1	67	.35	.100	3	45.5	.43	112	.158	2	2.70	.042	.09	<.1	.01	3.1	<.1	<.05	7	<.5	15.0
17000E 9350N	.3	14.9	5.4	55	<.1	18.3	7.4	223	2.61	1.4	.4	1.6	.8	51	<.1	.2	.1	64	.41	.024	4	42.4	.37	65	.170	1	1.89	.067	.06	<.1	.01	3.5	<.1	<.05	5	<.5	15.0
17000E 9300N	.3	11.1	4.9	57	<.1	15.5	6.0	254	1.97	1.3	.2	1.2	.5	41	<.1	.1	.1	46	.32	.042	2	31.6	.27	79	.141	2	1.78	.049	.07	<.1	.01	2.2	<.1	<.05	6	<.5	15.0
17000E 9250N	.4	22.5	3.9	60	<.1	36.7	12.7	291	3.51	3.6	.4	.6	1.0	65	.1	.3	.1	93	.45	.102	3	55.8	.54	122	.165	3	3.28	.059	.12	<.1	<.01	5.2	<.1	<.05	8	<.5	15.0
17000E 9200N	.3	18.2	4.0	74	<.1	29.3	10.5	360	2.74	2.1	.3	.5	.9	63	.1	.1	.1	63	.46	.129	3	45.6	.45	126	.148	3	2.80	.054	.12	<.1	.01	3.9	<.1	<.05	7	<.5	15.0
17000E 9150N	.5	18.3	5.0	84	<.1	31.9	11.7	591	2.86	2.3	.3	<.5	.9	52	.1	.1	.1	66	.37	.130	3	47.1	.52	132	.146	2	3.12	.031	.12	<.1	.01	3.8	<.1	<.05	8	<.5	15.0
17000E 9100N	.4	22.1	4.0	75	<.1	37.1	17.9	507	3.77	2.1	.3	<.5	1.0	64	.1	.1	.1	69	.51	.153	4	48.4	.97	90	.076	6	2.78	.029	.12	<.1	.02	6.7	.1	<.05	8	<.5	15.0
17000E 9050N	.4	22.7	4.5	88	<.1	49.4	14.3	481	2.86	4.0	.4	<.5	1.0	62	.1	.1	.1	58	.61	.251	3	39.1	.72	147	.087	5	3.33	.030	.16	<.1	.02	4.8	.1	<.05	9	<.5	15.0
17000E 9000N	.5	18.3	4.5	74	<.1	28.0	11.6	728	2.78	3.5	.3	<.5	.6	69	.1	.3	.1	67	.63	.103	3	42.9	.51	161	.129	4	2.54	.053	.12	<.1	.02	3.8	<.1	<.05	7	<.5	15.0
STANDARD DS6	11.6	121.9	28.6	143	.3	24.8	10.7	702	2.84	21.1	6.5	46.5	3.2	42	6.0	3.5	4.9	58	.87	.077	15	191.0	.58	168	.085	17	1.95	.075	.17	3.3	.23	3.4	1.8	<.05	7	4.4	15.0

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

Data FA

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au 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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17000E 8950N	.4	16.1	3.8	38	<.1	21.3	9.5	265	2.42	2.7	.5	1.0	.8	81	.1	.3	.1	63	.61	.035	4	33.3	.53	128	.120	4	1.74	.044	.06	<.1	.02	4.3	.1	<.05	4	<.5	15.0
17000E 8900N	.4	23.5	4.2	58	<.1	30.3	12.6	509	2.89	3.7	.4	.8	1.0	75	<.1	.3	.1	76	.42	.091	5	37.0	.66	168	.120	2	2.50	.034	.07	.1	.03	4.7	<.1	<.05	7	<.5	15.0
17000E 8850N	.7	34.7	5.4	134	<.1	32.0	14.6	719	3.03	4.9	.3	4.0	1.0	33	.1	.5	.1	76	.31	.152	3	34.4	.56	278	.119	2	3.07	.017	.08	<.1	.03	4.6	<.1	<.05	8	<.5	15.0
17000E 8800N	.9	22.3	4.3	53	<.1	18.9	14.8	1176	4.92	52.5	.8	33.3	2.2	62	<.1	12.6	.1	146	.47	.089	15	25.9	.54	184	.081	7	1.39	.021	.09	.2	.02	16.8	.1	<.05	5	<.5	15.0
17000E 8750N	.5	14.4	5.6	157	<.1	17.3	8.7	1803	2.52	4.2	.3	<.5	.9	26	.1	.9	.1	60	.23	.068	4	22.1	.30	326	.105	2	1.96	.012	.06	<.1	.03	2.8	.1	<.05	7	<.5	15.0
17000E 8700N	.6	11.2	3.9	147	<.1	10.3	7.8	2151	3.10	13.8	.3	2.8	1.1	18	.2	.9	.1	65	.28	.168	6	7.5	.20	313	.058	4	1.44	.010	.12	.1	.03	3.3	.1	<.05	6	<.5	15.0
17000E 8650N	.6	26.5	3.7	70	<.1	26.6	14.0	437	3.42	4.1	.4	1.1	1.4	55	<.1	.5	.1	97	.31	.053	5	36.7	.68	160	.154	2	2.35	.019	.08	<.1	.01	4.7	<.1	<.05	7	<.5	15.0
17000E 8600N	.5	22.2	3.9	50	<.1	25.1	10.8	326	2.54	3.0	.3	.5	.9	54	<.1	.3	.1	69	.32	.049	5	32.9	.57	102	.137	1	2.01	.028	.06	<.1	.02	3.4	<.1	<.05	6	<.5	15.0
17000E 8550N	.5	16.9	4.4	57	<.1	20.7	10.0	225	2.25	3.0	.3	<.5	.9	45	.1	.2	.1	53	.29	.149	4	28.5	.45	96	.101	2	2.10	.021	.05	<.1	.04	3.5	<.1	<.05	6	<.5	15.0
17000E 8500N	.7	25.0	3.1	55	<.1	31.6	14.1	297	2.91	4.7	.4	<.5	1.2	58	.1	.2	<.1	79	.32	.140	4	37.1	.71	114	.096	2	2.46	.023	.04	<.1	.02	4.3	<.1	<.05	6	<.5	15.0
17000E 8450N	1.1	42.5	3.9	56	<.1	37.8	19.1	742	2.90	4.6	.6	.7	1.4	82	.1	.3	.1	75	.78	.077	12	38.5	1.10	111	.074	3	1.82	.025	.07	.1	.04	7.4	<.1	<.05	5	<.5	7.5
17000E 8400N	.8	27.9	5.1	66	<.1	29.3	13.4	434	2.76	2.9	.4	.7	.9	54	.1	.2	.1	72	.41	.065	5	36.1	.78	96	.109	2	1.82	.028	.07	<.1	.02	4.2	<.1	<.05	6	<.5	15.0
RE 17000E 8400N	.7	28.3	5.0	68	<.1	28.3	13.5	442	2.76	3.0	.3	<.5	1.0	56	.1	.2	.1	71	.41	.067	5	36.5	.77	97	.111	3	1.84	.025	.07	<.1	.03	4.2	<.1	<.05	6	<.5	15.0
17000E 8350N	.7	51.6	4.2	53	.1	34.6	12.7	466	2.39	3.0	.6	2.6	1.0	76	.1	.1	.1	52	.73	.051	15	35.6	.89	103	.075	4	2.07	.024	.07	<.1	.04	7.1	<.1	<.05	5	<.5	7.5
17000E 8300N	.7	29.0	3.7	53	<.1	34.8	15.8	380	3.32	3.1	.5	<.5	1.6	75	.1	.3	.1	78	.53	.090	6	40.3	.99	129	.092	2	2.33	.027	.08	.1	.02	7.1	<.1	<.05	6	<.5	15.0
17000E 8250N	1.1	23.5	3.8	50	<.1	26.2	14.8	635	3.37	7.9	1.0	<.5	1.2	41	.1	.2	.1	87	.32	.102	4	36.9	.74	138	.078	3	2.04	.021	.08	<.1	.02	5.7	<.1	<.05	6	<.5	15.0
17000E 8200N	.6	42.4	3.7	55	<.1	41.1	17.9	642	3.24	4.4	1.2	1.1	1.5	74	.1	.2	.1	73	.68	.068	11	47.1	1.17	130	.103	4	2.11	.036	.07	<.1	.02	8.5	<.1	<.05	6	<.5	15.0
17000E 8150N	.5	33.0	2.8	50	<.1	35.8	15.4	449	3.12	5.5	.6	1.3	1.4	95	.1	.4	<.1	82	.73	.076	10	40.3	1.18	100	.108	6	1.78	.054	.07	<.1	.02	7.1	<.1	<.05	5	<.5	15.0
17000E 8100N	.4	29.9	3.2	57	<.1	36.2	17.2	376	3.72	8.0	.3	.7	1.0	67	.1	.3	<.1	89	.44	.155	4	36.2	1.05	94	.096	3	2.43	.032	.08	<.1	.01	6.8	<.1	<.05	7	<.5	15.0
17000E 8050N	.4	38.5	3.0	54	<.1	36.3	17.4	630	3.29	7.0	.6	1.6	1.5	87	<.1	.3	<.1	94	.66	.082	11	41.4	1.07	148	.122	2	1.88	.038	.07	<.1	.01	7.7	<.1	<.05	5	<.5	15.0
17000E 8000N	.4	18.7	4.4	55	<.1	23.0	11.7	461	2.39	4.1	1.2	.7	1.1	56	.1	.2	<.1	66	.41	.079	5	32.7	.70	398	.125	2	1.97	.025	.06	<.1	.03	3.5	<.1	<.05	6	<.5	15.0
17000E 7950N	.4	18.6	4.1	71	<.1	22.4	10.8	321	2.66	4.0	.5	<.5	.7	41	.1	.2	.1	70	.30	.123	3	33.0	.52	344	.119	1	2.13	.021	.04	<.1	.02	2.7	<.1	<.05	7	<.5	15.0
17000E 7900N	.3	20.0	4.5	65	.1	23.2	11.9	351	2.68	4.5	.6	.5	1.0	38	.1	.2	.1	65	.33	.175	3	32.0	.59	436	.118	2	2.41	.020	.08	<.1	.03	3.4	<.1	<.05	8	<.5	15.0
17000E 7850N	.3	13.4	4.4	59	<.1	13.6	9.5	406	2.43	3.2	.5	<.5	1.9	280	.1	.1	.1	59	.46	.282	3	19.2	.72	794	.116	2	2.03	.011	.13	.1	.04	3.1	.1	<.05	9	<.5	15.0
17000E 7800N	.4	24.6	4.7	47	.2	27.1	12.7	389	2.90	6.5	.8	<.5	1.0	36	.1	.1	.1	69	.29	.174	6	34.1	.57	507	.105	2	2.90	.014	.05	<.1	.03	3.3	<.1	<.05	9	<.5	15.0
17200E 10000N	.3	14.9	4.2	71	<.1	17.3	10.0	493	2.76	4.0	.2	.8	.6	35	<.1	.1	.1	59	.28	.081	1	27.6	.35	95	.096	2	1.67	.022	.09	<.1	<.01	3.3	<.1	<.05	5	<.5	15.0
17200E 9950N	.4	27.2	4.3	73	<.1	37.4	16.0	697	3.97	9.4	.3	.7	1.0	76	.1	.3	.1	87	.64	.137	6	51.6	.90	156	.009	3	3.06	.013	.16	<.1	.02	7.7	.1	<.05	8	<.5	15.0
17200E 9900N	.3	15.7	3.4	74	<.1	28.1	10.9	413	3.10	4.0	.3	.9	.6	53	<.1	.2	<.1	79	.36	.058	3	47.9	.32	100	.076	1	2.40	.037	.08	<.1	.02	5.0	<.1	<.05	6	<.5	15.0
17200E 9850N	.3	22.6	3.5	51	<.1	29.3	13.1	298	3.29	3.6	.2	.8	.9	45	<.1	.1	<.1	81	.38	.071	2	50.8	.85	67	.165	2	1.96	.044	.14	<.1	.01	5.5	<.1	<.05	5	<.5	15.0
17200E 9800N	.2	14.7	3.3	56	<.1	18.0	9.5	395	2.56	.7	.2	<.5	.8	37	.1	.1	<.1	61	.30	.023	2	31.7	.56	42	.125	2	1.25	.044	.07	<.1	.01	4.7	<.1	<.05	4	<.5	15.0
17200E 9750N	.3	12.6	4.1	53	<.1	15.7	7.8	277	2.30	2.1	.2	1.0	.6	31	.1	.3	.1	61	.24	.037	1	34.5	.28	61	.139	2	1.47	.033	.06	<.1	.01	2.7	<.1	<.05	4	<.5	15.0
17200E 9700N	.4	16.0	4.6	61	<.1	22.9	11.7	408	3.03	4.8	.2	<.5	.9	42	.1	.5	.1	76	.33	.071	3	43.0	.41	69	.127	2	1.73	.026	.16	<.1	.02	5.3	<.1	<.05	5	<.5	15.0
17200E 9650N	.3	11.8	4.4	60	<.1	17.4	8.1	308	2.21	2.1	.2	<.5	.8	35	.1	.3	.1	58	.26	.069	2	37.2	.27	73	.134	2	1.59	.028	.07	<.1	.01	2.8	<.1	<.05	5	<.5	15.0
17200E 9600N	.3	14.5	3.7	51	<.1	14.1	6.9	343	2.23	1.6	.3	1.1	.8	45	<.1	.2	<.1	64	.39	.039	5	29.7	.31	53	.152	2	1.19	.046	.07	<.1	.01	4.0	<.1	<.05	3	<.5	15.0
STANDARD DS6	11.4	122.4	28.6	142	.3	24.8	10.6	699	2.81	20.9	6.5	46.8	2.9	40	5.9	3.5	4.9	55	.84	.077	13	189.4	.57	162	.079	18	1.89	.073	.15	3.5	.23	3.2	1.8	<.05	6	4.6	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17200E 9550N	.3	14.4	4.7	51	<.1	16.7	7.5	233	2.33	1.6	.3	1.0	.6	43	<.1	.1	.1	63	.35	.027	3	32.1	.39	43	.137	1	1.49	.060	.06	<.1	.01	2.9	<.1	<.05	5	<.5	15.0
17200E 9500N	.2	9.6	4.3	49	<.1	11.8	4.9	222	1.63	1.1	.2	1.4	.5	32	<.1	.2	.1	40	.28	.029	2	25.4	.23	53	.116	2	1.30	.048	.06	<.1	.01	1.9	<.1	<.05	4	<.5	15.0
17200E 9450N	.3	11.7	4.4	56	<.1	13.4	7.3	285	2.10	1.6	.2	<.5	.6	43	<.1	.3	.1	54	.32	.029	2	32.0	.28	61	.155	2	1.34	.046	.07	<.1	.01	2.2	<.1	<.05	4	<.5	15.0
17200E 9400N	.3	17.1	3.9	57	<.1	19.7	10.3	266	2.73	2.0	.2	.6	.8	46	<.1	.3	.1	75	.33	.060	2	39.1	.39	80	.170	2	1.79	.050	.08	<.1	.01	3.2	<.1	<.05	5	<.5	15.0
17200E 9350N	.2	12.9	4.7	57	<.1	13.8	6.4	191	2.03	1.5	.2	1.2	.6	39	<.1	.2	.1	51	.32	.033	3	30.0	.29	54	.135	2	1.50	.050	.07	<.1	.01	2.5	<.1	<.05	4	<.5	15.0
17200E 9300N	.3	26.6	4.3	98	<.1	44.8	11.7	1511	2.80	2.7	.8	1.4	1.3	75	.2	.1	.1	61	.67	.029	18	38.8	.51	107	.111	3	2.84	.054	.07	<.1	.03	8.4	.1	<.05	7	<.5	15.0
17200E 9250N	.3	23.2	3.5	63	<.1	29.0	14.4	633	3.14	2.6	.5	1.0	1.3	85	.1	.2	<.1	69	.70	.024	8	45.7	.82	77	.112	4	1.91	.065	.08	<.1	.02	8.2	<.1	<.05	6	<.5	7.5
17200E 9200N	.5	18.3	5.9	78	<.1	29.3	11.7	1073	2.52	3.8	.4	1.7	.7	72	.2	.2	.1	63	.67	.175	7	41.7	.64	188	.072	6	2.60	.020	.12	<.1	.09	5.1	.1	<.05	7	<.5	15.0
17200E 9150N	.3	19.5	4.0	61	<.1	35.6	12.3	346	3.46	4.2	.7	1.2	1.0	77	<.1	.2	.1	86	.59	.040	5	52.9	.71	161	.112	4	3.26	.035	.09	<.1	.01	6.1	<.1	<.05	9	<.5	15.0
17200E 9100N	.4	19.2	5.1	120	<.1	36.4	14.0	697	3.10	1.2	.3	.9	.9	53	.1	.1	.1	52	.33	.189	3	48.1	.52	132	.103	3	3.14	.028	.08	<.1	.02	5.4	.1	<.05	9	<.5	15.0
17200E 9050N	.3	11.5	3.9	66	<.1	25.9	9.0	381	2.03	.9	.2	<.5	.6	39	<.1	.1	.1	46	.26	.154	2	57.4	.28	91	.116	1	2.07	.040	.05	<.1	.02	2.3	<.1	<.05	6	<.5	15.0
17200E 9000N	.6	28.4	4.0	70	<.1	53.2	20.8	771	3.84	2.0	.4	1.1	1.2	104	.1	.1	<.1	81	.75	.109	10	57.8	1.33	140	.116	8	2.46	.064	.12	<.1	.03	7.1	<.1	<.05	7	<.5	15.0
17200E 8950N	.3	18.9	4.6	56	<.1	28.2	10.5	444	3.00	<.5	.3	1.1	1.0	57	<.1	.1	.1	70	.33	.045	4	43.5	.50	93	.194	2	2.28	.052	.07	<.1	.01	4.0	<.1	<.05	6	<.5	15.0
17200E 8900N	.5	18.4	2.9	49	<.1	48.3	14.6	366	3.06	.8	.2	1.4	.7	57	<.1	.1	<.1	78	.41	.076	3	87.6	.72	67	.127	3	2.38	.057	.04	.1	.01	2.5	<.1	<.05	5	<.5	15.0
17200E 8850N	.3	21.7	3.6	53	<.1	26.8	12.4	502	2.96	<.5	.2	1.2	.8	59	<.1	.1	<.1	78	.36	.044	3	58.7	.61	57	.219	2	1.66	.065	.08	<.1	.01	3.6	<.1	<.05	5	<.5	15.0
17200E 8800N	.3	14.0	5.7	78	<.1	21.8	9.0	296	2.02	1.2	.3	.8	.8	40	.1	.1	.1	44	.26	.108	4	25.8	.36	111	.085	1	2.05	.021	.07	<.1	.02	2.9	<.1	<.05	7	<.5	15.0
17200E 8750N	.6	15.4	5.9	78	<.1	23.4	11.1	592	2.49	1.3	.3	<.5	.9	40	.1	.1	.1	63	.32	.085	5	32.4	.44	126	.110	2	2.50	.016	.10	<.1	.02	3.0	.1	<.05	8	<.5	15.0
17200E 8700N	.4	21.3	4.6	84	<.1	37.4	14.7	309	3.20	2.3	.4	1.0	1.1	58	.1	.1	.1	81	.35	.133	5	44.7	.65	156	.132	4	3.31	.025	.09	<.1	.01	4.4	<.1	<.05	10	<.5	15.0
17200E 8650N	.5	22.4	4.6	120	<.1	27.4	13.0	472	2.81	1.4	.3	.8	.8	68	.1	.1	.1	65	.48	.142	5	39.2	.58	126	.132	5	2.43	.040	.09	<.1	.02	3.9	<.1	<.05	8	<.5	15.0
17200E 8600N	.5	23.3	4.2	77	<.1	31.3	15.6	511	3.47	1.6	.4	<.5	.9	64	.1	.1	.1	92	.43	.108	4	45.8	.77	108	.150	4	2.87	.041	.08	<.1	.02	4.8	<.1	<.05	9	<.5	15.0
17200E 8550N	.6	23.1	4.3	95	<.1	28.4	14.2	382	3.13	3.0	.3	1.9	.7	45	<.1	.3	.1	87	.31	.100	3	43.8	.59	136	.157	3	2.22	.043	.09	<.1	.03	3.4	<.1	<.05	7	<.5	15.0
17200E 8500N	.4	17.8	5.6	119	<.1	27.0	12.4	321	2.26	1.6	.3	<.5	1.1	34	<.1	.1	.1	50	.26	.229	4	31.8	.42	134	.110	3	2.66	.024	.07	<.1	.03	3.6	<.1	<.05	9	<.5	15.0
17200E 8450N	.6	22.6	4.7	104	<.1	36.7	16.2	499	3.12	3.1	.4	<.5	1.0	38	.1	.2	.1	73	.28	.255	4	41.8	.60	126	.127	3	3.40	.025	.08	<.1	.07	4.4	<.1	<.05	11	<.5	15.0
17200E 8400N	.8	30.4	4.3	64	<.1	36.9	17.1	605	3.26	3.4	.4	<.5	1.1	72	.1	.2	<.1	87	.54	.095	8	47.5	.89	114	.134	5	2.56	.038	.11	<.1	.03	5.9	<.1	<.05	7	<.5	15.0
RE 17200E 9400N	.4	17.7	4.1	59	<.1	19.6	10.6	272	2.71	2.4	.3	<.5	.8	48	<.1	.2	.1	76	.33	.062	2	40.5	.40	86	.169	2	1.82	.056	.08	<.1	.01	3.1	<.1	<.05	6	<.5	15.0
17200E 8350N	.6	27.0	4.1	62	<.1	37.4	16.2	531	3.31	3.0	.4	<.5	1.2	72	<.1	.2	<.1	91	.49	.095	7	47.3	.86	110	.128	2	2.29	.035	.10	<.1	.01	5.3	<.1	<.05	7	<.5	15.0
17200E 8300N	1.0	22.5	4.9	62	<.1	36.1	15.1	578	3.06	3.1	.4	<.5	1.0	55	.1	.2	.1	81	.40	.089	4	42.9	.68	103	.135	3	2.38	.024	.13	<.1	.03	3.6	<.1	<.05	7	<.5	15.0
17200E 8250N	.5	26.2	3.9	85	<.1	31.8	16.0	530	3.54	3.3	.4	<.5	1.1	62	.1	.2	.1	95	.47	.100	4	44.9	.89	93	.121	3	2.52	.027	.12	<.1	.02	4.5	<.1	<.05	7	<.5	15.0
17200E 8200N	.7	31.0	4.1	67	<.1	41.9	19.4	780	3.86	3.5	.6	.8	1.6	97	<.1	.2	<.1	100	.72	.100	11	50.1	1.16	138	.152	6	2.74	.052	.12	<.1	.02	8.3	<.1	<.05	8	<.5	15.0
17200E 8150N	.8	21.0	5.0	111	<.1	30.0	16.1	437	3.24	2.9	.4	<.5	1.0	47	.1	.2	.1	76	.36	.132	4	37.8	.73	140	.122	3	2.85	.022	.09	<.1	.02	3.7	<.1	<.05	9	<.5	15.0
17200E 8100N	.8	19.4	3.6	55	<.1	28.7	18.2	776	3.73	6.1	.4	<.5	.9	67	.1	.1	.1	91	.55	.071	4	41.3	.90	90	.128	3	2.41	.051	.06	<.1	.01	4.6	<.1	<.05	7	<.5	15.0
17200E 8050N	.6	32.5	3.4	64	<.1	38.4	17.6	527	3.68	3.6	.4	<.5	1.3	79	.1	.3	<.1	100	.50	.059	6	50.1	1.03	119	.145	3	2.70	.032	.12	<.1	.01	5.1	<.1	<.05	8	<.5	15.0
17200E 8000N	.8	28.5	6.3	69	<.1	30.5	14.5	635	3.11	3.3	.4	.8	1.1	82	.1	.2	.1	79	.57	.089	6	37.9	.85	137	.090	3	2.38	.022	.12	<.1	.05	4.7	<.1	<.05	7	<.5	7.5
17200E 7950N	.6	25.4	3.4	51	<.1	29.0	12.8	437	2.95	3.0	.4	<.5	1.1	92	<.1	.3	<.1	80	.65	.087	7	42.8	.88	97	.126	4	1.92	.063	.14	<.1	.03	5.0	<.1	<.05	6	<.5	15.0
STANDARD DS6	11.5	122.6	28.5	143	.2	25.2	10.7	701	2.85	20.9	6.5	45.1	3.1	41	5.9	3.5	4.9	57	.86	.077	15	191.6	.58	163	.083	18	1.94	.074	.17	3.6	.23	3.4	1.8	<.05	7	4.4	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17200E 7900N	.3	23.0	4.4	78	<.1	17.1	12.6	750	2.23	10.9	2.5	.8	1.5	107	.1	.1	.1	54	1.08	.106	7	21.7	1.09	431	.082	3	2.03	.014	.10	.1	.05	4.8	<.1	<.05	8	<.5	15.0
17200E 7850N	.2	21.2	3.5	51	.1	13.2	9.7	633	2.06	8.6	2.2	<.5	.7	104	.1	.1	.1	52	.86	.081	10	17.6	.81	595	.078	4	2.27	.011	.09	<.1	.04	3.3	<.1	<.05	10	<.5	15.0
17200E 7800N	.3	5.8	5.1	35	<.1	6.2	4.0	137	1.36	4.6	1.0	.6	.8	16	<.1	.1	.1	33	.11	.147	2	12.0	.22	100	.076	<1	1.17	.012	.03	<.1	.02	1.4	<.1	<.05	6	<.5	15.0
RE 17200E 7800N	.2	6.0	5.4	37	<.1	6.7	4.0	135	1.34	4.6	1.0	.5	.7	15	<.1	.1	.1	32	.11	.146	2	11.9	.22	98	.075	2	1.13	.012	.03	<.1	.01	1.3	<.1	<.05	6	<.5	15.0
17400E 10000N	.3	15.4	5.0	78	<.1	30.4	10.8	485	2.91	2.7	.4	.9	.8	38	.1	.1	.1	68	.31	.087	3	34.4	.42	128	.120	1	3.37	.026	.05	<.1	.03	5.0	<.1	<.05	9	<.5	15.0
17400E 9950N	.4	22.4	5.2	60	<.1	42.1	18.3	379	3.44	2.3	.5	.6	1.4	62	.1	.1	.1	78	.32	.051	7	48.2	.90	187	.143	1	4.82	.032	.06	<.1	.03	6.0	<.1	<.05	11	<.5	15.0
17400E 9900N	.3	23.3	4.1	57	<.1	33.0	10.4	370	2.91	8.9	2.3	1.0	1.3	83	.1	.1	.1	62	.84	.050	14	42.7	.88	101	.105	2	2.64	.052	.08	<.1	.03	9.8	<.1	<.05	7	<.5	7.5
17400E 9850N	.2	9.1	2.9	58	<.1	17.2	8.7	472	2.25	<.5	.2	<.5	.7	35	<.1	<.1	.1	51	.26	.032	2	26.7	.56	61	.149	1	1.46	.049	.05	<.1	.01	3.0	<.1	<.05	4	<.5	15.0
17400E 9800N	.2	12.5	3.1	43	<.1	15.1	9.1	388	2.10	.5	.2	.8	.5	38	<.1	<.1	<.1	56	.26	.016	2	32.7	.38	53	.137	1	.91	.053	.05	<.1	.01	3.0	<.1	<.05	3	<.5	15.0
17400E 9750N	.3	16.0	4.2	47	<.1	23.5	12.7	492	3.13	1.2	.4	<.5	1.3	48	.1	.1	.1	61	.38	.022	7	35.8	.42	79	.148	2	1.27	.050	.11	<.1	.01	6.7	<.1	<.05	4	<.5	15.0
17400E 9700N	.4	17.1	4.1	53	<.1	26.0	10.2	364	2.78	.9	.3	1.0	1.1	57	.1	.1	<.1	76	.35	.057	3	40.1	.56	87	.181	1	2.13	.051	.08	<.1	.01	4.4	<.1	<.05	6	<.5	15.0
17400E 9650N	.3	18.2	4.3	55	<.1	20.6	10.1	317	2.95	1.1	.4	1.2	1.2	54	<.1	.1	.1	87	.34	.029	3	39.1	.51	60	.205	1	1.49	.055	.07	<.1	.01	4.6	<.1	<.05	5	<.5	15.0
17400E 9600N	.2	12.3	5.0	47	<.1	15.3	6.6	231	2.01	.7	.2	.5	.6	40	<.1	.1	.1	50	.28	.031	4	28.5	.33	70	.137	1	1.36	.037	.07	<.1	.01	2.6	<.1	<.05	4	<.5	15.0
17400E 9550N	.3	23.9	4.2	72	<.1	28.8	13.1	490	3.21	1.0	.3	.5	1.0	55	.1	<.1	.1	71	.35	.058	2	43.1	.80	92	.165	1	2.19	.034	.12	<.1	.02	5.3	<.1	<.05	6	<.5	15.0
17400E 9500N	.3	18.3	4.6	71	<.1	23.1	10.4	371	2.64	.7	.2	.6	.7	47	<.1	<.1	.1	58	.34	.081	2	37.5	.53	79	.173	1	1.82	.046	.14	<.1	.02	3.6	<.1	<.05	5	<.5	15.0
17400E 9450N	.3	22.3	4.6	59	<.1	25.3	12.8	413	3.03	.8	.3	.8	.8	59	<.1	.1	.1	73	.39	.081	2	40.0	.67	65	.196	1	1.93	.049	.11	<.1	.02	4.1	<.1	<.05	5	<.5	15.0
17400E 9400N	.4	17.3	4.7	63	<.1	25.3	10.3	348	2.80	1.0	.3	.6	1.0	49	.1	.1	.1	77	.31	.072	3	39.2	.47	109	.175	1	1.85	.034	.07	<.1	.01	3.3	<.1	<.05	5	<.5	15.0
17400E 9350N	.4	16.6	5.1	65	<.1	26.7	9.8	387	2.65	1.2	.3	.7	.9	51	.1	.1	.1	73	.30	.083	3	38.3	.41	100	.174	1	1.93	.035	.08	<.1	.01	3.2	<.1	<.05	5	<.5	15.0
17400E 9300N	.5	25.3	5.2	78	<.1	43.4	17.6	696	3.25	.9	.5	5.6	1.1	97	.2	.1	.1	66	.73	.104	6	41.7	1.04	104	.099	3	2.47	.033	.13	<.1	.06	5.8	<.1	<.05	6	<.5	7.5
17400E 9250N	.2	29.6	4.7	69	<.1	24.0	11.8	442	3.23	<.5	.4	1.1	1.0	85	<.1	<.1	.1	57	.43	.052	5	32.3	.59	80	.177	1	1.72	.046	.11	<.1	.01	5.7	<.1	<.05	5	<.5	15.0
17400E 9200N	.4	31.1	4.4	54	<.1	48.0	20.4	615	3.83	.7	.5	1.1	1.3	85	.1	<.1	<.1	72	.67	.075	10	40.0	1.75	48	.166	2	2.24	.038	.12	<.1	.02	7.9	<.1	<.05	7	<.5	7.5
17400E 9150N	.2	28.0	4.3	69	<.1	36.7	13.6	634	3.25	.8	.3	.6	1.1	96	.1	<.1	.1	68	.47	.060	6	46.4	.87	95	.159	2	2.04	.043	.22	<.1	.02	6.1	.1	<.05	6	<.5	15.0
17400E 9100N	.4	24.9	4.3	71	<.1	49.9	17.8	449	3.58	.9	.4	.5	1.2	47	.1	.1	<.1	87	.29	.147	5	57.1	.84	125	.216	1	3.65	.024	.07	<.1	.02	4.4	<.1	<.05	9	<.5	15.0
17400E 9050N	.3	18.0	3.2	86	<.1	35.1	14.2	703	3.16	.7	.3	.5	.7	46	.1	<.1	<.1	87	.33	.057	5	78.0	.96	61	.202	2	1.65	.022	.09	<.1	.01	4.0	<.1	<.05	5	<.5	15.0
17400E 9000N	.3	18.4	4.7	69	<.1	36.8	11.8	601	2.80	1.4	.4	5.6	1.4	56	.1	.1	.1	64	.35	.169	8	36.2	.54	132	.142	4	2.33	.024	.13	<.1	.01	5.1	<.1	<.05	7	<.5	15.0
17400E 8950N	.3	25.5	4.2	64	<.1	30.8	15.3	813	3.03	1.8	.8	<.5	1.2	99	.1	.1	.1	71	.82	.063	13	42.2	.73	177	.071	7	1.69	.027	.07	<.1	.02	7.9	<.1	<.05	5	<.5	15.0
17400E 8900N	.5	28.7	4.2	77	<.1	43.2	17.9	641	3.39	1.1	.3	.8	.9	89	<.1	.1	.1	81	.48	.147	4	46.1	.98	131	.205	1	2.75	.046	.07	<.1	.02	3.9	<.1	<.05	7	<.5	15.0
17400E 8850N	.3	22.8	5.7	66	<.1	40.2	15.3	506	3.52	1.4	.4	.5	1.6	94	.1	.1	.1	80	.52	.118	7	43.3	.74	167	.127	3	3.15	.027	.06	<.1	.02	5.6	<.1	<.05	8	<.5	15.0
17400E 8800N	.5	13.0	6.9	62	<.1	22.2	9.1	491	2.88	.8	.3	<.5	1.5	66	<.1	.1	.1	64	.32	.045	4	37.4	.30	129	.147	2	2.01	.025	.05	<.1	.02	3.8	<.1	<.05	6	<.5	15.0
17400E 8750N	.3	19.4	5.5	116	<.1	22.8	11.4	480	3.26	1.8	.4	.6	1.2	70	.1	.1	.1	93	.29	.054	6	43.9	.56	172	.181	3	1.81	.017	.06	<.1	.01	3.9	<.1	<.05	6	<.5	15.0
17400E 8700N	.3	21.3	6.1	80	<.1	25.4	10.2	471	3.04	1.4	.4	.8	1.4	49	.1	.1	.1	90	.27	.041	7	51.2	.48	146	.215	3	1.87	.023	.05	<.1	.01	3.7	<.1	<.05	6	<.5	15.0
17400E 8650N	.3	47.0	5.0	74	<.1	46.1	13.2	1149	2.95	1.2	2.9	1.1	1.5	139	.1	.1	.1	61	1.06	.055	67	41.2	.84	150	.069	3	3.23	.022	.06	<.1	.03	14.5	.1	<.05	8	<.5	7.5
17400E 8600N	.3	21.2	4.7	78	<.1	24.8	11.5	503	3.13	1.2	.5	.6	1.2	87	.1	.1	.1	86	.47	.024	8	41.6	.66	107	.176	3	1.60	.041	.07	<.1	.02	6.0	<.1	<.05	5	<.5	15.0
17400E 8550N	.8	21.5	5.4	70	<.1	42.8	13.3	821	2.94	1.7	.4	.7	.9	64	.1	.1	.1	72	.55	.091	6	45.2	.59	221	.142	3	2.71	.022	.10	<.1	.02	3.5	<.1	<.05	9	<.5	15.0
STANDARD DS6	11.5	124.3	29.5	145	.3	24.7	10.7	697	2.82	21.1	6.7	46.0	3.0	40	6.0	3.5	5.0	57	.85	.077	14	187.2	.58	164	.081	17	1.90	.072	.15	3.5	.23	3.3	1.8	<.05	6	4.5	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17400E 8500N	1.7	32.0	4.3	72	<.1	45.9	16.3	463	3.78	2.6	.6	<.5	1.8	81	.1	.2	.1	92	.43	.063	12	52.1	1.05	331	.108	1	3.64	.017	.07	<.1	.02	6.6	<.1	<.05	9	<.5	15.0
17400E 8450N	1.2	23.9	5.3	85	<.1	32.9	13.3	994	3.02	1.7	.4	<.5	.9	64	.2	.1	.1	77	.47	.068	5	40.9	.63	252	.120	2	2.66	.016	.06	<.1	.03	3.5	<.1	<.05	7	<.5	15.0
17400E 8400N	4.4	17.8	4.4	42	<.1	21.5	12.3	1007	3.39	2.8	.3	<.5	.7	26	.1	.5	.1	77	.30	.054	6	23.1	.48	118	.065	1	1.73	.008	.04	<.1	.05	5.0	<.1	<.05	7	<.5	15.0
17400E 8350N	4.2	38.0	3.2	52	<.1	37.4	18.1	606	4.08	2.8	.8	<.5	2.5	55	<.1	.3	.1	92	.41	.070	14	40.8	1.15	164	.101	1	2.60	.016	.07	<.1	.02	10.9	<.1	<.05	7	<.5	7.5
17400E 8300N	2.2	20.1	5.4	58	<.1	26.2	14.0	959	3.10	2.3	.4	1.6	.9	31	.1	.2	.1	68	.24	.081	5	28.3	.49	121	.093	2	2.58	.012	.06	<.1	.05	3.8	<.1	<.05	8	<.5	15.0
17400E 8250N	1.7	18.0	4.3	53	<.1	29.3	11.8	586	2.69	1.9	.3	<.5	.9	44	.1	.2	.1	68	.29	.103	4	30.9	.50	111	.104	1	2.43	.015	.07	<.1	.03	3.3	<.1	<.05	7	<.5	15.0
17400E 8200N	4.9	28.8	3.5	52	<.1	32.1	15.1	562	3.62	3.2	.6	<.5	1.6	72	<.1	.3	.1	93	.48	.075	10	36.1	.80	111	.094	2	2.18	.017	.08	<.1	.04	8.6	<.1	<.05	6	<.5	15.0
17400E 8150N	1.1	26.2	4.4	58	<.1	32.2	14.8	642	3.63	1.9	.4	<.5	1.6	81	<.1	.2	.1	111	.46	.048	6	43.9	.87	115	.143	2	2.38	.022	.10	<.1	.02	5.6	<.1	<.05	6	<.5	15.0
17400E 8100N	1.3	32.6	3.5	61	<.1	35.3	14.4	496	3.57	2.4	.5	<.5	1.6	79	.1	.2	<.1	100	.41	.068	7	43.5	.89	149	.140	1	2.65	.023	.09	<.1	.01	5.8	<.1	<.05	7	<.5	15.0
17400E 8050N	.5	25.7	3.1	55	<.1	32.8	13.1	458	3.25	2.3	.4	<.5	1.3	86	<.1	.2	<.1	98	.49	.046	6	45.1	.94	131	.156	2	1.94	.039	.06	<.1	.01	6.4	<.1	<.05	6	<.5	15.0
17400E 8000N	.4	19.6	4.4	52	<.1	28.4	11.1	330	2.77	1.3	.3	<.5	.8	82	<.1	.1	.1	80	.42	.063	5	39.1	.67	141	.157	1	2.15	.030	.06	<.1	.01	3.3	<.1	<.05	6	<.5	15.0
17400E 7950N	.4	32.1	3.6	54	<.1	42.6	16.6	573	3.58	2.5	.6	1.4	2.0	110	.1	.2	<.1	96	.66	.083	13	49.7	1.24	119	.148	2	2.43	.045	.07	<.1	.01	9.6	<.1	<.05	6	<.5	7.5
17400E 7900N	.3	19.4	4.7	53	<.1	26.4	9.6	297	2.30	1.3	.6	<.5	.8	73	.1	.2	.1	59	.51	.032	8	32.7	.72	93	.128	1	1.76	.044	.04	<.1	.02	5.2	<.1	<.05	5	<.5	15.0
17400E 7850N	.4	19.7	4.9	93	<.1	27.7	13.5	339	2.88	1.9	.4	<.5	1.0	52	<.1	.2	.1	73	.30	.134	4	35.5	.65	112	.127	2	2.24	.027	.05	<.1	.01	3.7	<.1	<.05	7	<.5	15.0
17400E 7800N	.5	23.6	4.1	60	<.1	33.1	13.8	474	3.27	2.0	.4	<.5	1.1	72	.1	.1	.1	95	.36	.073	5	41.6	.79	108	.145	2	2.70	.025	.07	<.1	.01	4.3	<.1	<.05	7	<.5	15.0
17600E 10000N	.3	9.2	3.3	54	<.1	17.6	7.7	317	2.06	2.3	.2	<.5	.7	22	<.1	<.1	.1	25	.15	.091	2	27.4	.20	82	.095	<1	1.56	.022	.04	<.1	.01	2.9	<.1	<.05	6	<.5	15.0
17600E 9950N	.3	15.3	5.9	85	<.1	35.1	11.3	144	2.27	1.2	.3	<.5	1.2	32	<.1	<.1	.1	51	.18	.200	3	29.5	.42	121	.131	1	4.00	.021	.04	<.1	.02	3.4	<.1	<.05	10	<.5	15.0
17600E 9900N	.2	12.5	6.0	57	<.1	21.3	9.5	327	2.19	<.5	.3	<.5	.7	51	.1	<.1	.1	53	.28	.034	3	29.2	.39	94	.168	<1	2.82	.031	.04	<.1	.02	2.8	<.1	<.05	7	<.5	15.0
17600E 9850N	.2	14.0	4.7	57	<.1	21.1	11.7	481	2.78	<.5	.3	<.5	.8	57	.1	.1	.1	77	.41	.027	3	31.1	.56	61	.176	1	2.25	.064	.04	<.1	.01	3.5	<.1	<.05	6	<.5	15.0
17600E 9800N	.4	17.4	5.7	64	<.1	28.9	12.1	409	2.58	1.2	.3	<.5	1.1	41	.1	<.1	.1	54	.21	.094	3	32.9	.51	110	.130	1	3.42	.023	.05	<.1	.03	3.2	<.1	<.05	9	<.5	15.0
17600E 9750N	.4	17.3	4.4	68	<.1	41.7	16.5	731	2.67	.7	.3	.9	.9	42	<.1	<.1	.1	60	.26	.172	2	34.6	.79	91	.115	1	3.27	.035	.05	<.1	.02	3.0	<.1	<.05	9	<.5	15.0
17600E 9700N	.3	16.9	5.1	73	<.1	54.7	21.7	1169	3.45	.6	.4	<.5	.8	63	.1	.1	<.1	90	.62	.117	9	52.0	1.83	55	.091	1	2.19	.070	.05	<.1	.01	6.1	<.1	<.05	5	<.5	15.0
17600E 9650N	.2	18.4	4.3	63	<.1	40.1	18.2	783	3.42	.7	.5	.6	1.5	83	.1	.1	.1	86	.48	.054	11	55.4	1.06	99	.130	1	3.07	.048	.05	<.1	.01	11.0	<.1	<.05	7	<.5	15.0
17600E 9600N	.2	17.1	4.9	63	<.1	30.5	13.5	661	2.67	.7	.4	.7	1.1	71	.1	<.1	.1	52	.30	.078	4	29.2	.58	121	.117	<1	3.12	.034	.05	<.1	.01	3.8	<.1	<.05	8	<.5	15.0
17600E 9550N	.2	32.3	5.9	81	<.1	65.4	22.2	840	3.30	.5	.5	1.1	1.6	103	.1	.1	.1	84	.57	.077	9	36.7	1.64	90	.123	1	2.24	.040	.10	<.1	.01	9.7	<.1	<.05	6	<.5	15.0
17600E 9500N	.2	22.0	4.2	65	<.1	58.6	21.2	648	3.76	<.5	.4	.7	1.4	67	.1	<.1	<.1	102	.50	.049	8	51.7	1.42	69	.123	1	2.20	.058	.07	<.1	.01	10.1	<.1	<.05	6	<.5	15.0
17600E 9450N	.2	18.6	4.4	47	<.1	32.3	13.2	436	2.92	.6	.3	1.1	1.2	73	.1	.1	<.1	83	.40	.035	6	43.2	.86	75	.145	2	1.57	.058	.11	<.1	.01	7.0	<.1	<.05	4	<.5	15.0
RE 17600E 9700N	.3	16.2	5.1	71	<.1	51.9	20.9	1127	3.32	.5	.4	47.5	.8	60	.1	.1	<.1	84	.58	.116	9	49.2	1.77	52	.085	1	2.12	.067	.04	<.1	.01	6.0	<.1	<.05	6	<.5	15.0
17600E 9400N	.2	34.5	4.6	64	<.1	47.6	20.1	765	3.80	<.5	.5	1.7	1.4	60	.2	<.1	.1	85	.54	.045	9	40.1	1.39	51	.211	1	2.03	.045	.11	<.1	<.01	10.6	.1	<.05	6	<.5	15.0
17600E 9350N	.3	37.6	3.7	57	<.1	49.5	19.3	678	3.56	<.5	.5	2.0	1.4	75	.1	.1	<.1	88	.64	.055	11	39.0	1.60	46	.206	1	1.84	.049	.13	<.1	.01	7.8	<.1	<.05	5	<.5	15.0
17600E 9300N	.2	31.7	4.4	65	<.1	50.7	22.1	611	3.44	<.5	.4	1.5	1.4	85	.1	.1	.1	87	.51	.056	8	41.4	1.49	62	.138	2	1.73	.061	.09	<.1	<.01	7.6	<.1	<.05	6	<.5	15.0
17600E 9250N	.3	52.5	2.6	62	<.1	63.9	25.6	755	4.17	<.5	.3	1.5	.9	62	.1	<.1	<.1	107	.66	.059	6	48.3	2.03	30	.240	1	1.59	.082	.06	<.1	<.01	5.0	.1	<.05	5	<.5	15.0
17600E 9200N	.4	38.3	3.3	60	<.1	61.9	22.5	560	3.67	<.5	.4	1.6	1.1	58	.1	<.1	<.1	87	.77	.080	8	41.4	2.25	32	.185	1	1.59	.068	.09	<.1	.01	5.7	.1	<.05	5	<.5	15.0
17600E 9150N	.2	30.2	4.6	106	<.1	40.2	18.7	756	3.48	.7	.3	.7	.7	63	.1	<.1	.1	77	.38	.072	3	39.1	1.12	109	.188	1	2.22	.054	.06	<.1	.01	3.7	.1	<.05	7	<.5	15.0
STANDARD DS6	11.5	122.9	28.7	142	.2	24.7	10.8	702	2.82	20.8	6.5	49.7	2.9	39	5.9	3.5	4.9	55	.85	.077	13	189.0	.58	162	.078	17	1.88	.072	.15	3.6	.22	3.2	1.8	<.05	6	4.4	15.0

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

Data FA

ACME ANALYTICAL

Almaden Minerals Ltd. PROJECT NR05-2 FILE # A505953

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au 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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17600E 9100N	.2	16.6	3.6	55	<.1	22.1	10.9	279	2.54	<.5	.3	<.5	.8	71	<.1	<.1	.1	48	.38	.039	3	31.4	.70	53	.162	1	1.44	.054	.11	<.1	.01	4.0	<.1	<.05	4	<.5	15.0
17600E 9050N	.2	29.7	7.0	80	<.1	49.5	24.4	774	3.78	.5	.4	.6	1.3	70	.1	.1	.1	69	.61	.064	8	30.1	1.58	50	.163	2	1.65	.047	.27	<.1	.03	7.3	.1	<.05	6	<.5	15.0
17600E 9000N	.2	19.3	3.8	47	<.1	15.7	8.4	333	2.10	<.5	.1	1.0	.7	74	<.1	<.1	<.1	51	.30	.026	3	43.5	.27	61	.178	1	1.11	.054	.06	<.1	.01	2.1	<.1	<.05	4	<.5	15.0
17600E 8950N	.2	23.4	4.9	75	<.1	21.5	9.0	393	2.92	<.5	.3	1.0	1.2	72	.1	.1	.1	58	.42	.046	4	40.6	.46	83	.190	2	1.63	.045	.13	<.1	.01	4.4	<.1	<.05	5	<.5	15.0
17600E 8900N	.3	26.3	3.8	63	<.1	56.2	20.5	686	3.85	<.5	.4	.5	1.8	97	.1	.1	<.1	84	.57	.050	13	45.1	1.24	105	.127	4	1.96	.053	.14	<.1	.01	8.0	<.1	<.05	6	<.5	15.0
17600E 8850N	.3	29.4	4.8	80	<.1	60.5	22.0	843	4.65	<.5	.5	1.5	2.4	63	.1	.1	.1	88	1.06	.050	19	53.7	.86	179	.057	9	2.47	.030	.13	<.1	.01	12.5	.1	<.05	7	<.5	15.0
17600E 8800N	.3	22.9	6.3	64	<.1	64.2	29.4	629	4.82	5.4	.6	1.0	1.7	129	<.1	.4	.1	54	.78	.064	17	41.2	1.34	148	.015	9	3.58	.016	.15	<.1	<.01	11.2	.1	<.05	8	<.5	15.0
17600E 8750N	.3	13.8	3.0	110	<.1	62.4	24.6	639	4.22	.6	.2	<.5	.7	75	.1	.1	.1	60	.57	.087	5	43.4	1.83	112	.074	2	4.18	.020	.11	<.1	.02	5.9	<.1	<.05	10	<.5	15.0
17600E 8700N	.3	10.8	3.1	52	<.1	26.7	10.5	275	2.70	.7	.2	.6	.7	50	<.1	.1	.1	66	.30	.061	2	46.5	.48	81	.112	1	2.31	.031	.06	<.1	.01	3.2	<.1	<.05	5	<.5	15.0
17600E 8650N	.4	16.4	5.3	64	<.1	23.8	10.7	454	3.16	<.5	.2	1.2	1.2	61	<.1	.1	.1	77	.34	.047	4	45.9	.38	114	.180	2	2.01	.032	.09	<.1	.01	3.2	<.1	<.05	6	<.5	15.0
17600E 8600N	.3	15.6	5.3	68	<.1	26.6	9.7	291	2.79	.5	.3	<.5	1.1	54	<.1	.1	.1	68	.31	.058	4	42.4	.40	96	.147	2	2.08	.032	.05	<.1	.01	2.9	<.1	<.05	6	<.5	15.0
17600E 8550N	.4	16.8	5.6	82	<.1	38.3	12.9	344	3.16	1.0	.3	<.5	1.5	65	.1	.1	.1	64	.46	.270	4	42.6	.48	164	.107	2	3.07	.019	.17	<.1	.02	4.2	<.1	<.05	8	<.5	15.0
17600E 8500N	.3	26.9	5.5	77	<.1	39.3	17.3	718	3.72	.7	.7	.6	1.7	104	.1	.1	.1	87	.63	.071	17	49.3	.92	109	.157	3	2.18	.052	.09	<.1	.01	7.2	<.1	<.05	7	<.5	15.0
17600E 8450N	.4	19.3	5.2	57	<.1	33.9	14.2	360	3.23	1.0	.5	1.6	1.4	68	<.1	.1	.1	78	.45	.143	5	48.9	.61	98	.130	2	2.85	.039	.08	<.1	.02	4.7	<.1	<.05	8	<.5	15.0
17600E 8400N	.7	23.2	3.8	50	<.1	40.7	16.8	828	3.32	1.3	1.8	<.5	1.7	97	<.1	.1	<.1	100	.64	.080	13	49.0	1.16	96	.165	2	1.94	.056	.08	<.1	.01	7.9	.1	<.05	6	<.5	15.0
17600E 8350N	.5	99.3	4.7	63	.1	39.7	16.5	561	3.34	1.7	.6	.5	1.3	89	.1	.1	.1	93	.54	.104	9	45.2	1.06	173	.159	1	2.91	.034	.08	<.1	.03	6.3	<.1	<.05	8	<.5	15.0
17600E 8300N	.3	36.5	3.9	48	<.1	19.3	7.0	505	1.79	.7	.6	1.6	.7	42	.1	.1	.1	46	.29	.034	6	24.8	.44	164	.096	1	2.19	.024	.03	<.1	.01	3.6	<.1	<.05	6	<.5	15.0
17600E 8250N	.3	54.4	5.0	57	<.1	28.8	11.9	472	2.79	1.3	.4	<.5	1.0	64	<.1	.1	.1	79	.38	.040	6	41.9	.72	112	.167	1	2.13	.034	.05	<.1	.02	4.2	<.1	<.05	7	<.5	15.0
17600E 8200N	.3	25.9	3.9	53	<.1	26.8	11.4	536	2.82	3.0	.7	<.5	1.2	73	.1	.1	.1	80	.55	.054	9	38.5	.88	90	.116	2	2.34	.026	.06	<.1	.02	7.6	<.1	.06	7	<.5	7.5
17600E 8150N	.4	24.4	4.3	49	<.1	21.7	12.1	467	2.71	1.5	.5	.6	1.0	65	<.1	.1	.1	76	.40	.025	7	35.9	.63	148	.170	2	2.01	.040	.05	<.1	.02	4.7	<.1	<.05	6	<.5	15.0
17600E 8100N	.4	25.5	3.8	62	<.1	32.8	13.2	489	3.20	1.7	.3	1.0	1.3	79	<.1	.2	.1	87	.48	.088	5	43.5	.83	111	.164	1	2.23	.035	.15	<.1	.02	5.4	<.1	<.05	6	<.5	15.0
17600E 8050N	.3	18.3	4.5	63	<.1	35.9	11.7	331	3.05	1.2	.3	.7	1.1	64	<.1	.1	.1	81	.36	.122	4	39.5	.65	111	.164	1	2.77	.031	.08	<.1	.02	4.0	<.1	<.05	7	<.5	15.0
17600E 8000N	.4	26.1	3.1	59	<.1	31.3	14.3	389	3.07	1.9	.5	<.5	1.3	86	.1	.2	<.1	84	.53	.083	8	42.8	.90	111	.150	2	1.95	.050	.10	<.1	.02	6.5	<.1	<.05	6	<.5	15.0
17600E 7950N	.4	21.4	3.9	59	<.1	35.1	14.1	340	3.21	1.7	.4	<.5	1.3	74	<.1	.1	<.1	87	.42	.139	5	43.5	.78	100	.154	2	2.67	.041	.07	<.1	.02	5.6	<.1	<.05	7	<.5	15.0
17600E 7900N	.5	20.1	4.9	67	.1	39.4	12.5	312	2.97	2.1	.4	<.5	1.3	59	.1	.1	.1	71	.46	.252	6	41.0	.70	112	.113	2	3.64	.026	.08	<.1	.04	4.9	<.1	<.05	9	<.5	15.0
17600E 7850N	.5	25.4	4.3	67	<.1	42.8	15.1	365	3.63	2.1	.5	.7	1.8	60	.1	.2	.1	89	.27	.135	7	49.8	.80	186	.137	2	3.94	.025	.09	<.1	.04	6.1	<.1	<.05	10	<.5	15.0
17600E 7800N	.5	19.6	4.5	72	<.1	38.1	14.4	480	3.29	2.0	.4	<.5	1.2	62	.1	.2	.1	86	.36	.164	4	42.9	.77	156	.144	1	3.27	.025	.07	<.1	.02	3.9	<.1	<.05	9	<.5	15.0
17800E 10000N	.3	11.1	2.4	44	<.1	23.6	7.2	223	2.14	.7	.2	.7	.7	66	.1	<.1	.1	57	.49	.042	3	36.0	.51	98	.148	1	2.03	.058	.09	<.1	.02	3.3	<.1	<.05	5	<.5	15.0
17800E 9950N	.4	21.0	4.0	76	<.1	34.0	13.1	863	2.76	.7	.4	<.5	1.1	86	.1	<.1	.1	73	.65	.053	12	38.3	.94	83	.163	1	1.96	.061	.09	<.1	.04	6.4	<.1	<.05	5	<.5	7.5
17800E 9900N	.2	19.2	4.0	49	<.1	32.8	14.0	738	2.99	<.5	.6	.5	1.5	76	.1	<.1	<.1	84	.50	.037	12	41.8	.87	66	.152	<1	2.72	.058	.06	<.1	.02	12.0	<.1	<.05	7	<.5	15.0
17800E 9850N	.2	17.2	4.4	45	<.1	25.3	8.5	343	2.76	<.5	.2	1.0	1.0	61	.1	<.1	<.1	81	.38	.033	2	28.8	.48	55	.178	1	2.04	.061	.06	<.1	.01	3.8	<.1	<.05	5	<.5	15.0
17800E 9800N	.2	18.9	3.1	65	<.1	36.9	13.8	462	3.02	<.5	.3	.7	1.2	69	.1	<.1	<.1	74	.48	.040	6	39.7	.89	69	.158	1	2.14	.058	.09	<.1	.01	6.8	<.1	<.05	6	<.5	15.0
RE 17800E 9850N	.2	17.0	4.5	46	<.1	24.4	8.5	340	2.69	<.5	.2	.9	1.0	60	.1	<.1	<.1	80	.37	.033	2	27.4	.50	56	.173	<1	2.02	.056	.06	<.1	.01	3.8	<.1	<.05	5	<.5	15.0
17800E 9750N	.3	21.4	4.0	55	<.1	35.8	13.5	356	3.46	.9	.3	.5	1.5	81	.1	<.1	<.1	96	.49	.069	3	48.3	.85	98	.194	<1	2.53	.043	.10	<.1	.01	5.2	<.1	<.05	7	<.5	15.0
STANDARD DS6	11.5	124.8	29.3	144	.3	25.3	10.9	711	2.87	21.5	6.6	48.7	2.9	40	6.0	3.4	5.0	56	.87	.080	13	194.1	.60	166	.080	17	1.96	.076	.17	3.4	.23	3.3	1.7	.06	6	4.5	15.0

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

Data FA

Almaden Minerals Ltd. PROJECT NR05-2 FILE # A505953

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17800E 9700N	.2	15.6	4.1	50	<.1	22.7	7.9	265	2.48	<.5	.3	1.1	.6	57	.1	.1	.1	55	.34	.044	3	32.3	.45	86	.150	1	2.02	.053	.06	<.1	.02	2.7	<.1	<.05	6	<.5	15.0
17800E 9650N	.2	16.1	4.5	71	<.1	42.0	12.6	228	2.37	<.5	.3	<.5	.9	44	<.1	.1	.1	52	.28	.124	3	36.2	.76	96	.135	2	3.23	.031	.08	<.1	.01	2.7	<.1	<.05	9	<.5	15.0
17800E 9600N	.3	12.5	4.6	55	<.1	24.0	7.7	319	2.26	<.5	.2	<.5	.7	43	.1	<.1	.1	52	.27	.051	2	33.0	.34	75	.162	1	2.09	.052	.06	<.1	.02	2.4	.1	<.05	6	<.5	15.0
17800E 9550N	.3	13.2	4.3	52	<.1	28.0	9.1	210	2.36	<.5	.2	.8	.7	38	<.1	<.1	.1	49	.27	.093	2	33.1	.36	65	.150	2	2.43	.039	.06	<.1	.02	2.4	.1	<.05	7	<.5	15.0
17800E 9500N	.3	23.6	4.3	102	<.1	52.6	15.3	581	3.43	.7	.2	<.5	.6	59	.1	.1	.1	87	.51	.139	2	53.3	.86	84	.246	2	3.54	.043	.10	<.1	.04	3.1	.1	<.05	10	<.5	15.0
17800E 9450N	.3	18.1	5.4	60	<.1	25.5	10.8	349	2.95	<.5	.4	<.5	1.0	68	<.1	<.1	.1	68	.38	.029	4	39.9	.51	116	.197	1	2.37	.052	.07	<.1	.02	3.2	<.1	<.05	6	<.5	15.0
17800E 9400N	.3	23.4	4.7	81	<.1	37.3	13.5	442	2.86	.6	.6	<.5	1.2	67	.1	<.1	.1	67	.48	.092	8	44.9	.78	91	.175	2	2.86	.048	.08	<.1	.03	5.3	<.1	<.05	8	<.5	7.5
17800E 9350N	.4	24.0	5.6	78	<.1	46.5	18.6	416	3.09	.7	.4	.7	1.2	40	.1	<.1	.1	57	.31	.098	3	42.6	.99	97	.149	2	4.51	.039	.12	<.1	.03	3.7	<.1	<.05	12	<.5	15.0
17800E 9300N	.3	29.1	4.3	86	<.1	50.9	19.1	490	3.03	.8	.4	<.5	.9	114	.1	<.1	.1	62	.50	.120	6	36.2	1.20	152	.147	2	3.83	.045	.13	<.1	.03	4.4	<.1	<.05	11	<.5	15.0
17800E 9250N	.2	23.4	4.5	68	<.1	48.1	17.2	398	3.25	.5	.4	<.5	1.1	73	.1	<.1	.1	72	.43	.081	3	43.1	1.03	126	.183	2	3.64	.057	.14	<.1	.02	3.9	<.1	<.05	9	<.5	15.0
17800E 9200N	.2	21.0	3.7	83	<.1	41.5	14.9	461	3.20	<.5	.3	<.5	.8	69	.1	<.1	.1	83	.45	.074	3	45.8	.80	82	.184	1	2.83	.064	.12	<.1	.02	3.4	<.1	<.05	8	<.5	15.0
17800E 9150N	.3	30.5	3.9	71	<.1	51.1	18.8	566	3.92	<.5	.2	<.5	.8	68	.1	<.1	.1	100	.54	.045	2	54.2	1.19	86	.292	1	2.94	.081	.07	<.1	.01	3.7	<.1	<.05	8	<.5	15.0
17800E 9100N	.2	31.1	4.4	85	<.1	54.8	18.8	538	3.81	<.5	.4	<.5	1.0	84	.1	<.1	.1	83	.58	.070	5	50.3	1.27	109	.211	2	3.99	.056	.08	<.1	.02	5.2	<.1	<.05	10	<.5	15.0
17800E 9050N	.5	24.9	4.5	99	<.1	41.7	16.8	1275	3.05	<.5	.4	<.5	1.0	62	.1	<.1	.1	64	.38	.091	6	39.9	.83	131	.146	2	3.45	.044	.09	<.1	.02	4.8	<.1	<.05	10	<.5	15.0
17800E 9000N	.2	22.3	3.9	77	<.1	30.0	10.5	446	2.92	<.5	.3	<.5	.9	69	.1	<.1	.1	61	.39	.040	3	43.3	.58	114	.164	1	2.67	.056	.10	<.1	.01	4.1	<.1	<.05	7	<.5	15.0
17800E 8950N	.3	25.4	4.1	76	<.1	44.3	16.6	686	3.60	<.5	.4	.5	1.1	74	.1	<.1	.1	75	.49	.089	6	51.7	1.04	114	.168	1	3.92	.041	.11	<.1	.02	6.2	<.1	<.05	10	<.5	15.0
17800E 8900N	.2	20.0	3.2	57	<.1	34.0	12.0	407	3.13	<.5	.3	1.0	.9	65	<.1	<.1	.1	72	.40	.032	6	51.4	.90	70	.173	1	2.32	.060	.09	<.1	<.01	5.6	<.1	<.05	6	<.5	15.0
17800E 8850N	.4	20.8	5.2	66	<.1	36.8	14.0	526	3.22	.8	.4	.7	1.1	76	.1	.1	.1	82	.47	.061	8	50.3	.72	102	.180	3	2.57	.050	.07	<.1	.02	4.4	<.1	<.05	8	<.5	15.0
17800E 8800N	.4	24.5	5.4	89	<.1	40.6	16.0	581	3.08	.8	.4	<.5	1.1	56	.1	.1	.1	66	.32	.124	5	46.5	.64	135	.168	2	3.93	.040	.10	<.1	.02	4.1	<.1	<.05	10	<.5	15.0
17800E 8750N	.4	23.6	4.8	90	<.1	49.2	15.9	544	3.08	.9	.4	1.3	.9	62	.1	<.1	.1	67	.31	.133	4	43.3	.84	177	.155	1	4.74	.029	.09	<.1	.02	4.0	<.1	<.05	12	<.5	7.5
17800E 8700N	.3	27.0	5.2	61	<.1	33.6	13.6	500	3.28	<.5	.3	<.5	.9	88	.1	<.1	.1	73	.36	.053	4	44.1	.86	128	.189	1	3.04	.036	.10	<.1	.02	4.2	.1	<.05	8	<.5	15.0
17800E 8650N	.2	21.3	3.7	71	<.1	48.4	20.6	682	3.71	.5	.3	<.5	1.0	76	.1	.1	.1	83	.45	.090	6	69.0	1.19	77	.139	1	3.50	.063	.06	<.1	.02	5.2	<.1	<.05	8	<.5	15.0
17800E 8600N	.2	21.5	5.0	54	<.1	31.4	12.4	357	2.94	.6	.3	<.5	.8	84	<.1	.1	.1	73	.39	.035	5	50.3	.76	139	.217	1	2.54	.051	.06	<.1	.01	3.6	<.1	<.05	6	<.5	15.0
17800E 8550N	.2	16.7	5.4	43	<.1	26.0	9.1	261	2.26	.5	.4	29.9	.7	66	.1	.1	.1	56	.32	.031	4	39.9	.58	130	.188	1	2.15	.043	.05	<.1	.01	2.6	<.1	<.05	6	<.5	15.0
17800E 8500N	.3	25.3	4.5	56	<.1	32.9	12.5	427	3.31	.9	.4	1.5	.8	93	.1	.1	.1	101	.41	.044	5	49.3	.73	147	.224	1	2.19	.055	.07	<.1	.02	3.2	<.1	<.05	6	<.5	15.0
17800E 8450N	.3	21.0	5.6	51	<.1	27.0	12.5	404	3.06	.5	.4	10.9	.9	86	<.1	.1	.1	83	.39	.030	5	47.4	.63	121	.221	2	2.18	.057	.06	<.1	.01	3.5	<.1	<.05	6	<.5	15.0
17800E 8400N	.3	30.5	4.0	52	<.1	42.6	16.2	497	3.57	1.2	.6	<.5	1.8	114	.1	.1	<.1	85	.79	.088	15	55.5	1.24	146	.120	7	2.69	.065	.09	<.1	.02	9.9	.1	<.05	8	<.5	7.5
17800E 8350N	.4	24.7	5.1	67	<.1	43.8	14.6	468	3.75	.8	.4	<.5	1.2	76	<.1	.1	.1	93	.43	.065	8	50.4	.78	174	.191	3	2.92	.045	.07	<.1	.01	4.8	<.1	<.05	8	<.5	15.0
17800E 8300N	.4	25.9	4.4	75	<.1	36.0	15.9	622	3.34	<.5	.4	<.5	1.0	79	.1	<.1	.1	74	.46	.074	7	48.5	.98	100	.162	2	2.66	.050	.10	<.1	.01	5.6	<.1	<.05	7	<.5	15.0
17800E 8250N	.5	27.6	4.9	67	<.1	43.9	17.4	534	4.03	1.3	.4	<.5	1.4	96	.1	.1	.1	111	.47	.056	8	57.6	1.07	162	.192	3	3.36	.039	.07	<.1	.03	5.5	<.1	<.05	10	<.5	15.0
RE 17800E 8100N	.4	19.9	5.7	95	<.1	34.6	12.6	421	3.12	.9	.3	.5	1.1	38	.1	<.1	.1	63	.24	.223	6	43.0	.46	135	.143	2	3.48	.027	.06	<.1	.03	4.5	<.1	<.05	12	<.5	15.0
17800E 8200N	.3	20.1	5.3	72	<.1	42.9	16.8	438	3.65	1.3	.3	<.5	1.1	66	.1	.1	.1	86	.49	.146	6	48.0	.71	115	.157	3	3.70	.031	.08	<.1	.02	4.6	<.1	<.05	10	<.5	15.0
17800E 8150N	.4	29.1	4.6	67	<.1	50.7	19.1	509	4.35	1.2	.4	<.5	1.4	101	<.1	.1	.1	105	.53	.081	9	53.1	1.22	171	.166	3	3.47	.034	.10	<.1	.03	5.9	<.1	<.05	9	<.5	15.0
17800E 8100N	.4	19.4	5.9	93	<.1	34.3	12.5	409	3.15	.7	.3	<.5	1.1	38	.1	.1	.1	61	.23	.229	5	41.4	.48	134	.135	2	3.54	.026	.05	<.1	.03	4.4	<.1	<.05	12	<.5	15.0
STANDARD DS6	11.6	123.0	28.8	145	.3	25.2	10.8	706	2.86	21.1	6.6	46.4	3.1	41	6.0	3.5	4.9	57	.87	.078	15	192.2	.58	165	.083	19	1.95	.075	.17	3.5	.22	3.4	1.8	<.05	7	4.5	15.0

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

Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
17800E 8050N	.4	18.2	5.1	54	<.1	31.2	11.7	538	2.90	1.2	.5	.7	1.1	80	.1	.2	.1	72	.45	.040	8	41.1	.83	114	.153	2	2.23	.033	.05	<.1	.03	4.9	<.1	<.05	6	<.5	15
17800E 8000N	.3	18.3	5.6	60	<.1	27.6	10.2	436	2.83	1.2	.5	1.3	1.2	78	<.1	.2	.1	74	.41	.032	9	37.6	.66	117	.178	2	2.08	.035	.05	<.1	.02	4.8	<.1	<.05	6	<.5	15
17800E 7950N	.4	21.8	4.7	68	<.1	34.1	13.9	562	3.63	1.3	.4	2.8	1.4	90	.1	.2	.1	101	.41	.048	8	48.3	.75	133	.195	2	1.92	.041	.08	<.1	.01	5.7	<.1	<.05	6	<.5	15
17800E 7900N	.4	14.5	4.6	57	<.1	22.5	9.4	357	2.95	.9	.3	.9	.9	56	.1	.2	.1	76	.30	.040	3	39.2	.47	105	.174	2	1.70	.032	.08	<.1	.01	3.3	<.1	<.05	5	<.5	15
17800E 7850N	.4	25.4	3.8	68	<.1	41.5	16.4	596	3.78	2.1	.5	.7	1.5	81	.1	.4	.1	99	.51	.072	12	55.2	.96	112	.180	4	1.97	.048	.16	<.1	.01	7.8	<.1	<.05	6	<.5	15
17800E 7800N	.4	27.0	3.6	56	<.1	43.2	17.7	708	3.52	3.0	1.1	1.5	1.2	117	.1	.4	.1	96	.69	.082	16	53.1	1.16	122	.140	3	2.29	.044	.06	<.1	.02	7.2	<.1	<.05	7	<.5	15
18000E 10000N	.1	24.6	3.2	61	<.1	46.4	20.6	529	3.33	<.5	.6	.7	1.4	41	.1	.1	<.1	87	.72	.126	12	32.8	2.37	29	.114	3	1.55	.023	.04	<.1	.02	13.0	<.1	<.05	5	<.5	15
18000E 9950N	.2	33.6	3.0	72	<.1	72.2	26.3	487	4.24	<.5	.5	.6	1.4	74	.1	<.1	<.1	116	.71	.092	10	80.1	2.98	35	.124	2	2.00	.063	.09	<.1	<.01	15.1	<.1	<.05	7	<.5	15
18000E 9900N	.2	23.0	5.2	55	<.1	26.4	11.4	379	3.56	<.5	.3	1.5	.9	54	<.1	.1	.1	80	.32	.029	3	42.2	.79	78	.157	2	2.21	.037	.05	<.1	.01	5.5	<.1	<.05	6	<.5	15
18000E 9850N	.4	19.6	5.1	66	<.1	31.4	11.2	483	2.83	.7	.3	.5	1.0	63	.1	.1	.1	66	.34	.061	4	40.9	.65	121	.200	1	3.24	.030	.06	<.1	.02	3.9	<.1	<.05	8	<.5	15
18000E 9800N	.4	14.5	5.3	56	<.1	22.8	9.1	383	2.52	1.1	.3	<.5	.9	50	.1	.1	.1	66	.30	.051	2	34.4	.42	104	.187	1	2.29	.027	.09	<.1	.01	2.5	<.1	<.05	6	<.5	15
18000E 9750N	.4	12.9	4.4	55	<.1	27.4	9.2	440	2.36	.5	.2	1.0	.6	40	.1	<.1	.1	47	.29	.085	2	36.9	.51	66	.130	2	2.22	.034	.07	<.1	.02	2.9	<.1	<.05	6	<.5	15
18000E 9700N	.2	24.2	4.4	66	<.1	36.0	14.5	466	3.37	.9	.3	.5	1.0	69	<.1	.1	.1	82	.42	.111	2	38.6	.81	78	.222	1	3.10	.044	.11	<.1	.02	4.7	<.1	<.05	8	<.5	15
18000E 9650N	.3	12.1	4.1	54	<.1	21.9	9.5	252	2.19	.9	.3	<.5	.8	43	.1	.1	.1	55	.23	.124	3	27.7	.35	83	.129	1	1.99	.027	.07	<.1	.01	3.1	<.1	<.05	6	<.5	15
18000E 9600N	.3	18.9	4.9	81	<.1	43.1	13.1	294	2.47	1.6	.3	.7	1.2	38	.1	.1	.1	52	.27	.214	3	34.5	.49	151	.121	2	3.20	.025	.08	<.1	.03	3.8	<.1	<.05	8	<.5	15
RE 18000E 9600N	.3	18.2	5.3	78	<.1	40.7	12.7	287	2.41	1.6	.3	.9	1.1	38	.1	.1	.1	49	.26	.217	3	33.5	.48	153	.113	2	3.19	.024	.08	<.1	.02	3.8	<.1	<.05	8	<.5	15
18000E 9550N	.1	18.9	5.5	38	<.1	21.3	7.1	215	2.20	.5	.9	<.5	1.5	67	.1	.1	.1	55	.48	.014	7	37.7	.60	57	.190	2	1.68	.069	.04	<.1	.01	6.0	<.1	<.05	5	<.5	15
18000E 9500N	.1	13.9	4.4	47	<.1	22.3	7.5	406	1.86	.5	.4	<.5	.9	59	.1	<.1	.1	46	.43	.013	6	30.1	.47	55	.137	1	1.54	.060	.04	<.1	.01	5.3	<.1	<.05	4	<.5	15
18000E 9450N	.2	21.1	3.7	36	<.1	24.6	8.1	275	2.40	.5	.5	1.5	.7	64	.1	.1	<.1	72	.41	.019	6	34.2	.56	51	.166	1	1.71	.056	.05	<.1	.01	5.0	<.1	<.05	5	<.5	15
18000E 9400N	.4	31.9	3.5	59	<.1	47.8	19.1	672	3.60	1.3	.5	1.3	1.5	97	.1	.2	<.1	88	.71	.095	12	44.3	1.38	78	.152	3	2.19	.055	.12	<.1	.01	9.9	<.1	<.05	6	<.5	15
18000E 9350N	.3	30.3	3.4	53	<.1	43.6	18.2	626	3.45	1.7	1.0	.9	1.6	109	.1	.1	<.1	87	.73	.093	12	46.7	1.32	87	.144	3	2.00	.053	.11	<.1	.01	9.0	<.1	<.05	6	<.5	15
18000E 9300N	.5	21.7	3.6	63	<.1	34.4	14.8	526	3.17	1.1	.6	<.5	1.2	83	.1	.1	<.1	76	.55	.107	6	45.5	.86	102	.160	2	2.29	.045	.10	<.1	.03	6.5	<.1	<.05	6	<.5	15
18000E 9250N	.4	20.8	6.4	61	<.1	38.1	14.2	679	3.06	.6	.3	.8	1.0	76	<.1	.1	.1	75	.43	.095	4	42.1	.79	82	.177	1	2.91	.040	.09	<.1	.04	5.1	<.1	<.05	8	<.5	15
18000E 9200N	.3	21.9	4.3	58	<.1	34.5	13.5	497	3.29	<.5	.3	<.5	1.1	87	<.1	.1	<.1	77	.46	.069	5	47.9	.81	89	.184	2	2.50	.036	.14	<.1	.01	5.4	<.1	<.05	7	<.5	15
18000E 9150N	.6	17.7	6.4	66	<.1	30.9	13.1	557	2.89	.9	.3	1.0	1.1	65	.1	.1	.1	69	.43	.181	5	39.4	.56	106	.152	2	2.67	.030	.10	<.1	.04	5.1	<.1	<.05	8	<.5	15
18000E 9100N	.4	16.2	5.7	83	<.1	37.6	14.3	410	2.64	1.0	.2	<.5	1.0	27	.1	<.1	.1	51	.18	.442	2	39.2	.34	94	.143	2	3.01	.021	.07	<.1	.02	3.2	<.1	<.05	9	<.5	15
18000E 9050N	.3	19.5	4.5	65	<.1	35.3	14.5	417	3.35	1.1	.3	<.5	.8	56	<.1	<.1	.1	82	.35	.182	2	49.1	.79	143	.210	1	3.10	.047	.07	<.1	.02	3.9	<.1	<.05	8	<.5	15
18000E 9000N	.3	17.5	5.8	62	<.1	34.2	13.7	634	2.77	.8	.3	.5	.9	55	.1	.1	.1	66	.31	.108	3	44.1	.62	101	.150	1	3.36	.023	.08	<.1	.02	3.5	<.1	<.05	9	<.5	15
18000E 8950N	.4	18.3	4.6	67	<.1	37.3	13.5	397	2.99	1.3	.3	2.6	.9	38	.1	.1	.1	64	.21	.243	3	37.3	.57	97	.132	1	3.55	.021	.07	<.1	.02	4.4	<.1	<.05	10	<.5	15
18000E 8900N	.6	19.5	5.8	74	<.1	38.0	13.6	533	2.91	1.0	.4	<.5	1.3	52	.1	<.1	.1	58	.26	.187	5	37.5	.73	124	.131	1	3.86	.026	.07	<.1	.03	5.4	<.1	<.05	10	<.5	15
18000E 8850N	.4	19.8	4.8	75	<.1	37.6	13.6	742	2.81	.9	.4	<.5	1.1	43.	.1	<.1	.1	61	.27	.199	4	40.9	.62	90	.164	1	3.83	.027	.07	<.1	.02	5.4	<.1	<.05	10	<.5	15
18000E 8800N	.3	29.1	4.3	64	<.1	47.4	20.0	615	3.94	.8	.4	<.5	1.5	112	.1	.1	.1	98	.59	.090	10	55.8	1.40	117	.166	1	3.28	.033	.08	<.1	.01	9.5	<.1	<.05	9	<.5	15
18000E 8750N	.7	17.5	5.5	72	<.1	45.7	13.8	274	3.12	1.5	.5	<.5	1.7	29	.1	.1	.1	58	.17	.283	3	40.0	.52	111	.142	2	4.84	.021	.08	<.1	.06	4.6	<.1	<.05	12	<.5	15
18000E 8700N	.6	19.9	5.7	72	<.1	49.2	16.4	203	3.12	1.9	.5	<.5	1.7	33	.1	.1	.1	56	.22	.238	4	40.4	.79	193	.111	1	6.08	.015	.10	<.1	.04	5.3	<.1	<.05	14	<.5	15
STANDARD DS6	11.4	121.7	28.6	141	.3	25.1	10.6	700	2.82	21.1	6.4	46.3	3.0	40	6.0	3.5	4.9	55	.85	.077	13	189.0	.58	162	.078	17	1.89	.073	.15	3.5	.23	3.2	1.8	<.05	6	4.4	15

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

Data FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
18000E 8650N	.3	29.2	4.2	55	<.1	44.4	18.2	664	3.56	1.6	.8	<.5	1.6	111	<.1	.1	.1	91	.68	.093	13	48.7	1.35	114	.132	3	2.37	.044	.07	<.1	.01	8.2	<.1	<.05	6	<.5	15
18000E 8600N	.3	24.9	5.6	69	<.1	54.3	17.6	269	3.57	3.2	.5	.6	1.8	67	<.1	.1	.1	72	.35	.177	5	42.7	.94	192	.118	2	5.56	.019	.07	<.1	.03	6.1	<.1	<.05	13	<.5	15
18000E 8550N	.3	20.8	5.4	87	<.1	50.9	16.4	428	3.50	1.8	.4	1.5	1.2	65	.1	.1	.1	68	.38	.160	5	42.7	1.09	156	.121	1	5.02	.023	.06	<.1	.03	4.9	<.1	<.05	12	<.5	15
18000E 8500N	.3	23.0	4.5	49	<.1	40.5	16.1	357	3.33	2.0	.5	1.0	1.6	92	.1	.2	.1	76	.53	.093	7	40.9	1.21	141	.130	2	3.24	.027	.07	<.1	.03	5.3	<.1	<.05	8	<.5	15
18000E 8450N	.4	26.4	4.6	58	<.1	42.6	15.8	365	3.71	2.7	.5	<.5	1.6	80	.1	.2	.1	95	.39	.067	8	46.1	1.05	169	.139	2	3.58	.022	.06	<.1	.02	6.2	<.1	<.05	9	<.5	15
18000E 8400N	.2	12.8	5.8	52	<.1	22.6	9.0	397	2.16	1.3	.5	<.5	1.0	55	.1	.1	.1	50	.32	.031	5	28.0	.60	92	.135	1	2.20	.025	.04	<.1	.01	3.5	<.1	<.05	6	<.5	15
18000E 8350N	.4	16.9	5.9	61	<.1	34.8	11.9	268	2.95	1.8	.6	.7	1.1	60	<.1	.1	.1	69	.34	.067	5	36.8	.71	160	.136	2	3.24	.022	.05	<.1	.02	4.0	<.1	<.05	9	<.5	15
18000E 8300N	.3	16.3	5.4	46	<.1	34.2	12.3	323	2.98	1.4	.5	<.5	1.2	84	.1	.2	.1	68	.49	.048	6	40.6	.91	93	.130	2	2.50	.027	.05	<.1	.01	4.4	<.1	<.05	7	<.5	15
18000E 8250N	.2	14.5	6.1	49	<.1	23.9	8.3	322	2.29	1.1	.6	<.5	1.1	62	<.1	.1	.1	53	.38	.033	7	32.2	.66	94	.123	3	2.27	.028	.04	<.1	.01	4.3	<.1	<.05	7	<.5	15
18000E 8200N	.4	20.4	4.9	72	<.1	35.8	13.7	217	3.25	2.5	.5	<.5	1.1	72	.1	.1	.1	65	.34	.316	6	39.1	.75	163	.104	2	4.36	.017	.06	<.1	.05	5.6	<.1	<.05	12	<.5	15
18000E 8150N	.4	20.4	5.2	69	<.1	38.2	15.0	400	3.47	2.8	.4	<.5	1.2	51	.1	.3	.1	76	.30	.156	5	41.3	.75	130	.093	2	3.39	.015	.07	<.1	.02	4.8	<.1	<.05	10	<.5	15
18000E 8100N	.4	15.8	5.8	61	<.1	29.5	11.4	265	2.88	2.5	.4	<.5	1.1	52	<.1	.2	.1	71	.33	.105	5	35.7	.58	113	.116	1	3.16	.016	.06	<.1	.02	3.6	<.1	<.05	10	<.5	15
18000E 8050N	.3	14.2	6.0	52	<.1	25.1	12.4	554	2.41	1.5	.7	<.5	1.2	72	.1	.1	.1	60	.42	.032	5	31.6	.75	110	.137	1	2.40	.023	.04	<.1	.02	4.2	<.1	<.05	7	<.5	15
18000E 8000N	.3	23.7	4.4	59	<.1	31.8	13.8	488	3.21	2.9	.6	<.5	1.3	97	.1	.3	.1	93	.53	.065	7	50.8	.99	142	.159	1	2.29	.029	.07	<.1	.01	5.9	<.1	<.05	7	<.5	15
18000E 7950N	.9	24.1	5.7	69	<.1	35.6	17.6	318	3.64	4.5	.6	<.5	2.0	54	<.1	.2	.1	84	.23	.113	4	35.8	.80	199	.150	2	4.92	.013	.06	<.1	.05	4.2	.1	<.05	13	<.5	15
18000E 7900N	.7	17.2	5.1	80	<.1	21.4	13.7	405	3.00	3.7	.4	.5	1.7	103	.1	.2	.1	75	.20	.094	3	23.5	.81	264	.178	2	3.26	.010	.07	.1	.05	3.0	.1	<.05	13	<.5	15
18000E 7850N	.2	18.2	4.0	62	<.1	11.9	10.1	512	2.00	1.8	.4	<.5	1.4	322	<.1	.1	<.1	53	.92	.161	4	13.6	.87	588	.108	3	2.77	.010	.16	<.1	.02	3.1	.1	<.05	12	<.5	15
18000E 7800N	.1	37.2	7.9	78	<.1	15.1	11.5	935	2.70	2.1	.8	<.5	3.2	229	<.1	.1	.1	71	.58	.119	5	17.6	.85	658	.155	3	2.33	.010	.16	<.1	.05	3.4	.1	<.05	11	<.5	15
RE 18000E 7800N	.2	37.1	7.8	78	<.1	14.5	11.9	930	2.75	2.2	.8	<.5	3.2	242	.1	.1	.1	72	.59	.123	5	17.7	.88	670	.154	3	2.42	.010	.16	.1	.05	3.3	.1	<.05	11	<.5	15
18200E 10000N	.4	33.5	3.1	53	<.1	54.7	18.8	673	3.60	1.4	.6	.6	1.8	95	.1	.1	<.1	90	.75	.080	12	45.6	1.51	61	.141	3	1.94	.056	.08	<.1	.01	8.6	<.1	<.05	6	<.5	15
18200E 9950N	.2	30.2	3.6	57	<.1	54.1	19.5	496	3.73	<.5	.7	<.5	1.8	71	<.1	<.1	<.1	78	.54	.050	15	60.6	1.79	53	.140	2	2.58	.032	.12	<.1	.01	10.8	<.1	<.05	7	<.5	15
18200E 9900N	.3	15.3	5.5	59	<.1	23.1	9.5	359	2.70	.7	.4	1.4	1.1	69	.1	.1	.1	70	.39	.042	3	36.5	.60	97	.191	2	2.05	.039	.08	<.1	.01	3.4	<.1	<.05	6	<.5	15
18200E 9850N	.3	16.7	4.5	69	<.1	24.0	10.1	606	2.65	1.0	.4	.9	1.2	58	.1	.1	.1	72	.38	.044	4	37.8	.60	86	.183	2	1.93	.045	.07	<.1	.01	4.4	<.1	<.05	6	<.5	15
18200E 9800N	.2	13.1	5.1	45	<.1	16.5	6.9	197	2.12	.6	.5	.5	1.0	48	.1	.1	.1	52	.31	.019	4	29.2	.41	63	.161	2	1.58	.044	.05	<.1	.01	3.6	<.1	<.05	5	<.5	15
18200E 9750N	.1	8.6	5.1	59	<.1	12.0	5.5	189	1.63	.5	.2	1.4	.6	41	<.1	.1	.1	40	.28	.015	3	20.4	.33	47	.133	2	1.27	.040	.05	<.1	.01	2.3	<.1	<.05	4	<.5	15
18200E 9700N	.3	18.6	4.7	58	<.1	33.3	11.1	273	2.70	1.2	.4	1.1	1.3	55	.1	.1	.1	67	.35	.093	3	39.4	.51	115	.148	1	2.85	.029	.09	<.1	.01	5.2	<.1	<.05	7	<.5	15
18200E 9650N	.3	18.5	5.5	50	<.1	32.5	9.3	237	2.55	1.7	.5	.8	1.4	60	.1	.1	.1	62	.35	.078	6	35.0	.50	125	.137	2	2.48	.042	.07	<.1	.02	4.9	<.1	<.05	7	<.5	15
18200E 9600N	.4	15.1	3.9	68	<.1	25.5	10.1	299	2.43	2.2	.2	2.3	.9	53	<.1	.2	.1	60	.34	.187	3	35.8	.45	87	.124	2	2.26	.023	.09	<.1	.01	3.7	<.1	<.05	6	<.5	15
18200E 9550N	.4	17.9	4.3	58	<.1	29.8	11.6	294	2.83	3.1	.4	3.9	1.1	58	<.1	.3	.1	73	.35	.082	4	37.1	.61	160	.156	2	2.38	.025	.08	<.1	.01	3.6	<.1	<.05	6	<.5	15
18200E 9500N	.3	14.5	4.5	50	<.1	23.6	8.6	212	2.19	1.2	.4	1.4	.8	52	<.1	.1	.1	57	.33	.031	4	33.2	.53	77	.148	2	1.68	.038	.04	<.1	.01	2.9	<.1	<.05	5	<.5	15
18200E 9450N	.5	31.2	4.3	62	<.1	49.2	19.1	694	3.62	3.7	.6	1.6	1.8	109	.1	.2	<.1	92	.75	.095	12	48.7	1.35	107	.133	5	2.15	.053	.09	<.1	.01	8.3	<.1	<.05	7	<.5	15
18200E 9400N	.5	23.4	4.5	58	<.1	32.4	13.8	430	3.58	3.6	.4	1.4	1.4	74	.1	.2	.1	116	.41	.067	7	43.4	.79	119	.167	2	2.29	.030	.07	<.1	.01	6.1	<.1	<.05	6	<.5	15
18200E 9350N	.4	20.8	4.0	60	<.1	31.1	13.0	359	3.13	2.4	.4	1.9	1.3	60	.1	.2	.1	88	.34	.062	4	40.2	.66	121	.165	2	2.35	.023	.07	<.1	<.01	3.9	<.1	<.05	7	<.5	15
18200E 9300N	.5	26.7	3.8	52	<.1	38.1	13.7	730	2.78	2.1	.8	1.2	1.3	100	.1	.2	<.1	76	.86	.075	16	38.8	1.08	92	.122	4	1.82	.051	.07	<.1	.03	6.9	<.1	<.05	5	<.5	15
STANDARD DS6	11.4	121.9	28.4	142	.3	25.0	10.7	702	2.82	21.2	6.4	47.1	3.0	40	6.0	3.5	4.9	56	.85	.078	14	190.1	.58	164	.080	17	1.92	.074	.16	3.5	.23	3.3	1.8	<.05	7	4.5	15

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

Data FA

ACME ANALYTICAL

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	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
18200E 9250N	.4	23.7	3.7	55	<.1	35.7	14.8	470	3.34	2.7	.7	1.8	1.3	81	.1	.3	.1	86	.53	.044	8	45.7	.97	109	.162	2	2.23	.046	.08	<.1	.02	6.3	<.1	<.05	6	<.5	15.0
18200E 9200N	.3	18.3	4.7	77	<.1	34.6	12.6	272	2.77	2.1	.3	.6	.9	52	.1	.2	.1	68	.35	.157	4	39.0	.53	109	.161	2	2.82	.032	.08	.1	.02	3.3	<.1	<.05	8	<.5	15.0
18200E 9150N	.3	19.4	4.6	59	<.1	37.8	15.7	686	3.44	.7	.4	.9	1.1	74	.1	.1	.1	60	.47	.082	6	41.6	.84	128	.184	1	2.77	.050	.07	<.1	.03	4.8	<.1	<.05	8	<.5	15.0
18200E 9100N	.4	21.5	5.2	68	<.1	36.8	14.1	539	3.06	1.5	.4	.8	1.0	71	.1	.2	.1	75	.47	.124	7	44.2	.86	103	.170	2	2.83	.044	.09	<.1	.02	4.6	<.1	<.05	8	<.5	15.0
18200E 9050N	.3	29.5	3.5	55	<.1	53.9	19.5	655	3.80	1.8	.5	1.2	1.4	108	.1	.1	.1	96	.77	.096	14	50.9	1.68	126	.168	4	2.57	.076	.11	<.1	.01	8.7	<.1	<.05	7	<.5	15.0
18200E 9000N	.3	24.9	5.3	81	<.1	43.0	17.0	734	3.52	2.1	.5	1.5	1.4	90	.1	.3	.1	93	.64	.136	12	49.2	1.09	145	.173	4	2.64	.071	.17	<.1	<.01	6.7	.1	<.05	8	<.5	15.0
18200E 8950N	.3	23.4	4.4	59	<.1	52.6	18.7	566	4.30	1.1	.5	.6	1.4	80	.1	.1	.1	78	.59	.108	11	44.6	1.00	135	.089	1	4.08	.027	.07	<.1	.02	8.7	<.1	<.05	10	<.5	15.0
18200E 8900N	.5	19.2	4.4	65	<.1	36.8	14.1	538	3.13	1.9	.4	<.5	1.1	27	.1	.1	.1	64	.22	.125	5	39.5	.84	98	.148	2	3.66	.030	.06	.1	.03	4.5	<.1	<.05	10	<.5	15.0
18200E 8850N	.2	16.8	3.2	64	<.1	34.7	13.1	565	3.65	3.1	.3	<.5	.9	56	.1	.1	<.1	67	.51	.030	5	37.7	.82	84	.111	2	2.27	.031	.04	<.1	.01	6.7	<.1	<.05	6	<.5	15.0
18200E 8800N	.2	18.2	4.8	64	<.1	35.6	14.0	685	3.38	1.2	.5	<.5	1.2	99	.1	.1	.1	75	.65	.027	5	49.9	1.08	93	.161	4	2.31	.083	.06	<.1	.02	7.7	<.1	<.05	6	<.5	15.0
18200E 8750N	.2	17.8	5.4	44	<.1	24.1	9.6	276	2.74	.8	.5	.8	1.2	76	.1	.1	.1	55	.45	.017	7	39.2	.66	102	.167	3	1.91	.060	.05	<.1	.01	4.7	<.1	<.05	5	<.5	15.0
18200E 8700N	.4	27.5	6.8	68	<.1	55.5	21.0	357	4.78	2.6	.6	<.5	1.6	86	.1	.1	.1	88	.49	.139	7	52.7	.96	194	.127	4	5.44	.022	.11	<.1	.02	8.7	<.1	<.05	14	<.5	15.0
18200E 8650N	.4	27.2	5.8	65	<.1	59.3	19.2	533	4.26	1.8	.5	<.5	1.7	126	.1	.1	.1	78	.52	.110	11	50.2	1.12	194	.119	4	4.58	.024	.09	<.1	.04	8.2	.1	<.05	12	<.5	15.0
18200E 8600N	.3	20.0	6.3	64	<.1	39.1	16.6	381	3.38	2.3	.6	<.5	1.2	83	.1	.1	.1	78	.48	.101	8	46.4	.83	131	.147	4	3.14	.031	.06	<.1	.03	5.7	<.1	<.05	10	<.5	15.0
18200E 8550N	.4	33.2	5.3	86	<.1	50.9	21.0	807	3.99	1.5	.5	<.5	1.4	77	<.1	.1	.1	86	.46	.203	6	58.9	1.07	164	.184	2	4.27	.027	.10	<.1	.02	6.7	<.1	<.05	12	<.5	15.0
18200E 8500N	.4	24.4	3.1	63	<.1	48.0	18.9	418	3.48	1.1	.3	.8	1.0	91	.1	.1	<.1	93	.56	.110	10	71.0	1.04	108	.174	2	3.21	.057	.07	.1	.02	6.6	<.1	<.05	8	<.5	15.0
18200E 8450N	.6	19.6	5.7	89	<.1	43.2	16.2	510	3.20	1.6	.3	.5	1.1	52	.1	.1	.1	67	.33	.222	5	51.0	.61	114	.163	3	3.42	.032	.09	<.1	.04	4.0	<.1	<.05	10	<.5	15.0
18200E 8400N	.3	19.4	5.0	82	<.1	28.5	13.5	286	2.91	1.5	.4	<.5	.8	80	.1	.1	.1	71	.53	.129	6	37.0	.79	253	.116	4	3.54	.016	.08	<.1	.01	4.8	.1	<.05	11	<.5	15.0
18200E 8350N	.7	18.7	5.0	72	.1	40.1	15.8	391	2.95	1.4	.3	.7	.9	32	.1	<.1	.1	58	.21	.153	4	44.0	.76	97	.160	2	3.78	.030	.06	<.1	.05	2.9	<.1	<.05	11	<.5	15.0
18200E 8300N	1.1	23.3	4.9	79	.1	48.7	17.6	311	3.88	2.1	.3	<.5	.9	32	.1	.1	.1	76	.25	.147	3	56.6	.95	84	.198	2	4.76	.030	.07	.1	.05	3.4	<.1	<.05	13	<.5	15.0
18200E 8250N	.3	26.1	5.0	64	<.1	44.7	17.0	823	3.51	19.3	3.3	<.5	1.3	120	.2	.3	.1	85	1.25	.054	27	49.1	1.03	529	.129	8	3.60	.049	.08	<.1	.05	9.9	.1	<.05	9	<.5	7.5
18200E 8200N	.6	23.3	5.5	83	<.1	47.3	18.5	648	3.84	4.5	.4	<.5	1.1	41	.1	.2	.1	87	.32	.076	6	50.5	.94	222	.165	3	4.62	.019	.10	<.1	.04	4.7	<.1	<.05	12	<.5	15.0
18200E 8150N	.6	23.0	7.1	97	<.1	41.4	20.8	742	4.68	14.5	.8	<.5	1.9	42	.1	.5	.1	107	.33	.149	12	47.9	1.16	243	.105	7	4.50	.014	.08	<.1	.03	7.5	.1	<.05	15	<.5	15.0
18200E 8100N	.6	24.7	4.9	76	<.1	43.0	18.6	477	3.87	6.8	.5	<.5	1.4	49	.1	.4	.1	91	.37	.073	6	42.4	.95	162	.133	4	4.67	.016	.07	<.1	.03	5.4	.1	<.05	13	<.5	15.0
18200E 8050N	.7	19.9	5.4	69	<.1	46.4	17.6	345	3.86	4.0	.5	.5	1.2	61	.1	.3	.1	85	.31	.106	7	46.5	.82	151	.139	3	5.09	.017	.08	<.1	.04	5.2	<.1	<.05	14	<.5	15.0
18200E 8000N	.6	23.7	5.3	93	<.1	48.7	21.8	484	4.32	5.5	.6	1.1	1.1	52	.1	.4	.1	97	.39	.172	5	46.7	1.06	172	.156	5	5.30	.016	.09	.1	.04	6.1	<.1	<.05	15	<.5	15.0
18200E 7950N	.5	16.1	5.5	60	<.1	28.9	11.9	248	2.99	2.8	.5	.5	.9	37	.1	.2	.1	72	.24	.083	5	35.6	.59	111	.157	2	3.68	.016	.06	<.1	.03	4.1	<.1	<.05	12	<.5	15.0
18200E 7900N	.6	15.1	5.7	60	<.1	25.9	12.1	256	2.95	3.7	.5	.6	1.0	39	.1	.2	.1	70	.26	.089	5	30.6	.57	109	.130	2	3.57	.014	.07	<.1	.06	3.7	<.1	<.05	12	<.5	15.0
18200E 7850N	.6	17.8	5.4	92	<.1	29.3	13.5	370	3.53	4.2	.5	<.5	1.3	32	.1	.3	.1	87	.21	.138	4	38.3	.68	116	.145	3	3.73	.014	.06	<.1	.04	4.4	.1	<.05	13	<.5	15.0
18200E 7800N	.6	28.5	5.1	77	.1	34.5	15.5	674	3.61	3.8	.5	.8	1.4	34	.1	.3	.1	89	.21	.087	5	41.4	.72	159	.173	3	3.94	.015	.08	.1	.05	4.2	.1	<.05	13	<.5	15.0
RE 18200E 7800N	.7	28.3	4.8	79	.1	34.6	15.7	674	3.66	4.2	.5	<.5	1.3	33	.1	.3	.1	89	.22	.087	5	41.0	.71	159	.170	3	3.91	.016	.08	<.1	.06	4.2	.1	<.05	13	<.5	15.0
18400E 10000N	.3	32.7	3.5	78	<.1	64.9	22.9	652	4.14	1.1	.4	<.5	1.0	90	.2	.1	.1	83	.62	.058	8	80.9	1.81	80	.135	8	2.71	.064	.13	<.1	.02	9.0	<.1	<.05	8	<.5	15.0
18400E 9950N	.4	24.8	4.2	60	<.1	38.7	14.0	436	3.62	1.9	.5	<.5	1.4	85	<.1	.3	.1	99	.51	.056	8	57.1	.85	113	.198	4	2.53	.056	.11	<.1	.01	6.1	<.1	<.05	7	<.5	15.0
18400E 9900N	.4	21.8	3.9	55	<.1	31.9	13.0	319	3.43	2.5	.3	<.5	1.1	77	<.1	.2	.1	90	.44	.090	4	51.0	.69	96	.171	3	2.64	.044	.11	<.1	.01	4.4	<.1	<.05	7	<.5	15.0
STANDARD DS6	11.7	122.4	28.7	142	.3	25.2	10.8	706	2.85	21.0	6.6	48.2	3.2	41	6.1	3.4	5.0	56	.87	.078	15	191.7	.59	167	.079	16	1.96	.075	.17	3.2	.24	3.3	1.8	<.05	7	4.4	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
18400E 9850N	.2	13.2	3.9	56	<.1	26.3	8.6	158	2.08	1.6	.3	<.5	1.2	38	<.1	.1	.1	40	.23	.186	3	27.6	.36	108	.099	<1	2.03	.023	.07	<.1	<.01	3.7	<.1	<.05	6	<.5	15
18400E 9800N	.3	14.5	3.5	57	<.1	27.6	9.3	210	2.12	2.6	.3	<.5	.8	35	<.1	.2	.1	47	.30	.150	5	31.0	.40	97	.086	1	2.22	.022	.08	<.1	.02	3.7	<.1	<.05	6	<.5	15
18400E 9750N	.2	10.4	4.2	50	<.1	17.6	6.4	158	2.05	1.4	.3	<.5	.6	47	<.1	.2	.1	46	.34	.029	3	28.4	.42	79	.113	<1	1.51	.035	.04	<.1	.01	2.8	<.1	<.05	4	<.5	15
18400E 9700N	.2	10.4	6.1	85	<.1	22.1	7.6	167	1.90	1.9	.2	<.5	.8	39	<.1	.2	.1	35	.32	.161	3	28.0	.30	151	.101	<1	2.11	.018	.05	<.1	.01	2.7	<.1	<.05	8	<.5	15
18400E 9650N	.3	14.4	5.5	62	<.1	22.8	8.1	222	2.54	1.6	.3	<.5	.8	48	.1	.3	.1	60	.27	.078	3	34.5	.37	110	.155	<1	2.11	.036	.06	<.1	.01	3.1	<.1	<.05	6	<.5	15
18400E 9600N	.3	11.2	5.1	64	<.1	20.0	7.2	169	2.08	1.7	.2	<.5	.7	44	.1	.2	.1	45	.34	.068	3	28.7	.37	104	.117	<1	1.69	.029	.05	<.1	.01	2.8	<.1	<.05	6	<.5	15
18400E 9550N	.5	22.1	3.9	58	<.1	33.4	13.3	375	3.19	4.0	.4	.6	1.1	69	<.1	.8	.1	84	.40	.072	4	44.2	.68	115	.127	1	2.14	.025	.07	<.1	.02	4.5	<.1	<.05	7	<.5	15
18400E 9500N	.3	12.6	6.0	77	<.1	23.7	7.6	197	2.20	1.8	.2	<.5	.9	45	.1	.2	.1	47	.32	.125	3	30.7	.34	139	.134	1	2.15	.026	.06	<.1	.01	2.9	<.1	<.05	8	<.5	15
18400E 9450N	.3	18.1	3.8	81	<.1	30.1	10.0	275	2.55	1.4	.2	<.5	.8	64	.1	.2	.1	53	.44	.062	3	38.9	.51	92	.115	2	1.78	.037	.05	<.1	.01	3.9	<.1	<.05	6	<.5	15
18400E 9400N	.3	14.5	3.6	42	<.1	26.6	9.1	221	2.38	1.6	.3	<.5	.8	72	<.1	.3	<.1	56	.45	.030	4	36.7	.76	84	.145	1	1.55	.050	.05	<.1	<.01	3.7	<.1	<.05	5	<.5	15
18400E 9350N	.4	17.0	3.9	56	<.1	37.2	11.8	246	2.72	3.4	.3	<.5	.9	51	.1	.4	.1	67	.26	.165	2	39.3	.54	144	.143	1	2.74	.025	.09	<.1	.01	3.1	<.1	<.05	7	<.5	15
18400E 9300N	.2	13.7	5.4	52	<.1	25.8	7.1	173	2.28	1.6	.4	<.5	.9	46	.1	.3	.1	50	.36	.033	7	34.3	.40	117	.123	<1	1.70	.028	.07	<.1	.01	3.2	<.1	<.05	6	<.5	15
18400E 9250N	.4	18.1	4.9	49	<.1	33.3	12.1	301	2.59	2.1	.4	1.0	1.1	42	.1	.3	.1	58	.26	.124	4	39.4	.50	119	.128	<1	2.81	.023	.07	<.1	.02	3.5	<.1	<.05	8	<.5	15
18400E 9200N	.3	14.3	4.1	80	<.1	34.6	10.8	344	2.26	2.5	.3	<.5	1.0	49	.1	.5	.1	49	.33	.227	3	34.1	.34	134	.105	1	2.43	.020	.09	<.1	.01	3.3	<.1	<.05	8	<.5	15
18400E 9150N	.4	18.6	4.7	85	<.1	45.9	12.8	301	2.76	2.9	.4	<.5	1.3	43	<.1	.3	.1	54	.31	.201	4	38.2	.51	159	.089	<1	3.15	.016	.10	<.1	.02	4.4	<.1	<.05	9	<.5	15
18400E 9100N	.2	12.5	5.3	51	<.1	25.4	7.8	211	2.08	1.2	.3	<.5	.9	50	<.1	.3	.1	47	.32	.035	4	33.7	.42	91	.130	1	1.72	.030	.04	<.1	.01	3.3	<.1	<.05	5	<.5	15
18400E 9050N	.5	14.0	4.9	81	<.1	32.7	10.4	339	2.24	2.4	.3	.5	1.1	26	.1	.3	.1	46	.20	.159	3	31.4	.30	113	.103	1	2.71	.015	.07	<.1	.03	3.1	<.1	<.05	9	<.5	15
18400E 9000N	.5	21.2	4.3	69	<.1	36.7	12.3	273	2.77	3.3	.4	3.3	1.2	52	.1	.3	.1	69	.26	.155	3	37.2	.53	180	.139	1	3.24	.023	.07	<.1	.02	3.6	<.1	<.05	8	<.5	15
18400E 8950N	.6	29.2	4.3	60	<.1	42.3	16.0	404	3.76	3.2	.5	.6	1.4	93	.1	.3	.1	101	.50	.067	5	48.4	.92	211	.170	1	3.15	.026	.10	<.1	.02	5.4	<.1	<.05	9	<.5	15
18400E 8900N	.4	23.7	3.7	52	<.1	37.9	13.2	381	3.29	2.9	.4	<.5	1.5	80	<.1	.4	.1	89	.43	.044	7	49.7	.87	184	.150	<1	2.75	.022	.08	<.1	.01	5.8	<.1	<.05	7	<.5	15
18400E 8850N	.5	20.6	5.4	63	<.1	54.5	16.8	605	3.16	2.0	.3	<.5	1.1	69	.1	.2	.1	72	.36	.107	6	39.6	1.10	185	.112	1	3.31	.023	.07	<.1	.04	4.5	<.1	<.05	9	<.5	15
18400E 8800N	.5	18.3	3.9	65	<.1	40.3	13.6	288	2.60	2.5	.4	.7	1.2	71	.1	.2	.1	62	.29	.110	5	36.7	.68	164	.110	2	2.97	.019	.07	<.1	.02	4.0	<.1	<.05	9	<.5	15
18400E 8750N	.4	27.1	3.9	68	.1	68.4	20.6	261	3.42	2.7	.5	<.5	1.6	160	.1	.1	.1	63	.40	.179	5	35.6	1.08	225	.115	1	4.29	.026	.08	<.1	.04	5.4	<.1	<.05	11	<.5	15
18400E 8700N	.4	19.5	3.4	67	<.1	73.9	17.4	369	3.65	1.6	.4	<.5	1.0	67	.1	.1	.1	67	.49	.071	6	34.2	1.41	69	.095	1	3.71	.037	.04	.1	.02	3.7	<.1	<.05	9	<.5	15
18400E 8650N	.3	20.8	4.9	58	<.1	48.6	15.0	532	3.38	2.1	.4	.7	1.3	97	.1	.2	.1	76	.48	.077	7	39.9	1.03	122	.144	<1	2.89	.030	.05	<.1	.02	4.9	<.1	<.05	8	<.5	15
18400E 8600N	.3	30.9	4.2	67	<.1	74.0	24.1	985	4.16	1.7	.6	.5	2.3	139	.1	.1	<.1	83	.90	.127	19	44.1	1.74	152	.094	2	2.92	.029	.08	<.1	.02	10.2	<.1	<.05	8	<.5	15
18400E 8550N	.6	18.4	5.5	73	<.1	54.7	16.1	540	3.28	1.5	.3	<.5	1.3	27	.1	.2	.1	64	.19	.133	4	32.9	.60	115	.128	<1	3.90	.018	.07	<.1	.02	3.4	<.1	<.05	11	<.5	15
18400E 8500N	.3	34.7	4.8	82	.1	45.1	13.3	510	3.18	2.6	1.5	.5	1.3	127	.2	.2	.1	56	1.09	.041	13	42.9	1.01	330	.081	4	3.08	.039	.06	<.1	.02	10.1	.1	<.05	8	<.5	15
18400E 8450N	.2	19.5	5.5	81	<.1	34.9	12.7	419	2.70	2.1	.7	.6	1.2	113	.1	.3	.1	60	.78	.036	6	34.2	.89	187	.121	2	2.24	.039	.05	<.1	.03	5.5	<.1	<.05	7	<.5	15
18400E 8400N	.4	15.0	5.5	95	<.1	23.2	12.8	313	3.46	14.9	.7	.6	1.4	49	.1	.4	.1	75	.25	.127	5	30.1	.53	218	.050	1	2.52	.011	.05	<.1	.02	3.7	<.1	<.05	9	<.5	15
18400E 8350N	.5	14.4	6.7	74	<.1	17.3	9.8	411	2.74	5.7	.5	<.5	.7	48	.2	.2	.1	64	.35	.152	4	21.7	.50	197	.045	1	3.14	.010	.06	<.1	.04	3.8	<.1	<.05	10	<.5	15
18400E 8300N	.3	18.2	5.2	64	<.1	30.6	10.1	322	2.70	5.5	.8	<.5	1.0	95	.1	.2	.1	64	.60	.040	9	37.6	.75	308	.106	1	2.30	.035	.06	<.1	.02	5.3	<.1	<.05	7	<.5	15
RE 18400E 8300N	.2	18.6	4.9	65	<.1	29.8	10.2	314	2.65	5.8	.7	<.5	1.0	97	.1	.2	.1	63	.61	.040	9	36.9	.72	317	.107	1	2.29	.032	.06	<.1	.02	5.2	<.1	<.05	7	<.5	15
18400E 8250N	.3	27.7	4.3	64	<.1	38.1	17.1	821	3.51	15.1	1.6	1.3	1.7	129	.1	.6	.1	90	.91	.085	18	39.5	1.13	364	.082	3	2.16	.035	.10	.1	.02	9.2	.1	<.05	7	<.5	15
STANDARD DS6	11.7	123.0	29.0	144	.3	24.9	10.9	703	2.83	21.0	6.6	51.2	3.1	40	6.0	3.5	5.0	56	.86	.078	14	190.1	.58	164	.081	17	1.84	.071	.16	3.4	.23	3.3	1.7	<.05	7	4.3	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
18400E 8200N	.6	12.9	5.6	104	<.1	30.9	13.1	322	3.80	18.4	.6	2.1	.9	22	.2	.3	.1	91	.16	.103	5	27.5	.45	193	.033	4	2.57	.011	.06	.1	.04	4.0	<.1	<.05	8	<.5	15
18400E 8150N	.4	16.5	3.2	82	<.1	31.0	16.4	397	3.49	12.9	.7	<.5	1.2	49	<.1	.3	.1	79	.46	.115	5	28.4	1.09	257	.043	2	3.37	.009	.07	.1	.01	5.2	<.1	<.05	11	<.5	15
18400E 8100N	.4	9.9	5.0	46	<.1	11.7	7.2	248	1.75	3.8	.3	1.0	.7	22	.1	.8	.1	46	.17	.036	3	16.6	.38	63	.063	1	1.57	.011	.03	<.1	.01	2.1	<.1	<.05	6	<.5	15
18400E 8050N	.3	15.0	4.7	74	<.1	24.1	12.8	474	2.83	5.0	1.4	1.2	1.1	119	<.1	.4	<.1	73	.57	.082	7	30.2	.87	179	.096	2	2.20	.024	.06	<.1	.02	4.6	<.1	<.05	7	<.5	15
18400E 8000N	.9	47.8	8.3	72	<.1	13.0	21.3	1723	3.92	44.9	1.7	2.0	6.8	33	.1	7.9	.4	86	.86	.204	33	18.7	.31	171	.011	4	1.41	.007	.12	.1	.05	11.1	.1	<.05	8	<.5	15
18400E 7950N	.4	19.5	5.8	73	<.1	23.9	10.9	374	2.62	3.8	.4	.5	.8	71	.1	.3	.1	68	.35	.068	5	29.2	.66	136	.104	1	2.23	.021	.04	<.1	.01	3.4	<.1	<.05	8	<.5	15
18400E 7900N	.6	18.2	5.4	69	<.1	21.9	9.8	241	2.98	5.2	.4	.6	.9	45	.1	.3	.1	71	.22	.140	4	29.6	.47	149	.086	1	2.90	.014	.05	.1	.02	3.2	<.1	<.05	10	<.5	15
18400E 7850N	.4	11.3	5.8	46	<.1	13.7	9.0	352	2.11	3.3	.5	1.3	.7	39	.1	.3	.1	56	.24	.048	3	19.7	.42	173	.093	1	1.72	.012	.05	<.1	.02	2.1	<.1	<.05	8	<.5	15
18400E 7800N	.8	20.4	36.5	106	<.1	25.6	14.5	505	3.65	6.9	.6	6.6	2.0	21	.1	2.3	.1	85	.17	.183	4	31.2	.73	101	.131	3	3.61	.008	.05	.1	.01	4.5	<.1	<.05	12	<.5	15
18600E 10000N	.3	22.6	2.7	38	<.1	34.7	12.5	402	2.78	1.5	.4	1.1	1.3	135	.1	.1	<.1	78	.68	.064	10	49.1	.86	95	.133	2	1.83	.085	.07	<.1	<.01	5.7	<.1	<.05	4	<.5	15
18600E 9950N	.3	13.9	4.9	56	<.1	33.6	9.7	219	2.56	2.2	.3	1.1	1.0	52	<.1	.1	.1	52	.35	.181	3	40.0	.39	120	.136	2	2.92	.027	.09	<.1	.02	3.3	<.1	<.05	8	<.5	15
18600E 9900N	.3	25.7	4.1	82	<.1	46.3	13.5	543	3.76	1.2	.3	1.0	1.0	77	.1	.1	.1	75	.65	.047	8	61.8	.81	100	.184	3	2.58	.055	.06	<.1	.01	7.0	<.1	<.05	7	<.5	15
18600E 9850N	.4	19.6	4.1	46	<.1	32.5	11.6	272	3.10	2.2	.3	1.1	1.2	72	.1	.6	<.1	82	.40	.047	4	43.5	.58	138	.146	1	2.10	.030	.07	<.1	.01	4.2	<.1	<.05	6	<.5	15
18600E 9800N	.4	20.3	4.7	87	<.1	24.2	9.7	394	2.96	1.7	.4	.8	1.1	81	.1	.3	.1	63	.88	.034	9	38.1	.70	87	.130	5	2.09	.037	.06	<.1	.02	5.7	<.1	<.05	5	<.5	15
18600E 9750N	.4	29.4	2.7	49	<.1	40.4	14.2	559	3.21	4.7	.5	2.4	1.6	96	.1	.4	<.1	95	.77	.100	11	45.5	1.14	102	.133	4	1.59	.065	.06	<.1	<.01	7.2	<.1	<.05	5	<.5	15
18600E 9700N	.3	14.6	4.6	39	<.1	22.2	8.5	153	2.07	1.6	.3	2.0	.7	45	<.1	.2	.1	48	.29	.091	3	29.2	.39	86	.129	2	2.02	.029	.03	<.1	.01	2.2	<.1	<.05	6	<.5	15
18600E 9650N	.2	24.9	8.2	78	<.1	36.2	8.4	695	2.16	1.8	.4	<.5	1.7	82	.2	.2	.1	35	.85	.032	16	24.1	.52	174	.091	4	2.97	.036	.04	<.1	.04	5.8	.1	<.05	6	<.5	15
18600E 9600N	.4	15.4	4.7	53	<.1	25.1	10.1	260	2.41	2.2	.3	2.5	.8	52	<.1	.3	.1	57	.33	.116	3	35.5	.46	118	.133	1	2.22	.025	.05	<.1	.02	2.8	<.1	<.05	6	<.5	15
18600E 9550N	.4	22.3	4.7	64	<.1	50.1	14.6	255	3.39	3.6	.4	1.7	1.5	56	.1	.2	.1	75	.37	.180	3	50.4	.67	172	.134	2	4.23	.024	.09	<.1	.03	4.8	<.1	<.05	10	<.5	15
18600E 9500N	.3	19.1	4.8	65	<.1	31.1	13.4	717	2.94	2.1	.4	2.2	1.3	67	.1	.2	.1	68	.58	.067	7	43.8	.58	121	.136	2	2.33	.037	.08	<.1	.01	5.7	<.1	<.05	6	<.5	15
18600E 9450N	.4	25.5	3.2	49	<.1	35.7	13.8	454	3.36	2.9	.5	2.1	1.7	85	<.1	.4	<.1	92	.56	.035	10	51.1	.82	121	.137	2	1.92	.045	.06	<.1	.01	8.1	<.1	<.05	5	<.5	15
18600E 9400N	.4	22.4	4.9	87	<.1	38.6	15.7	526	3.28	1.9	.5	1.7	1.3	57	<.1	.3	.1	78	.45	.102	5	55.6	.80	164	.156	1	3.01	.022	.08	<.1	<.01	5.6	<.1	<.05	8	<.5	15
18600E 9350N	.4	11.5	5.2	99	<.1	23.4	8.0	468	2.19	1.6	.2	2.3	.7	30	<.1	.5	.1	49	.26	.235	3	31.2	.22	129	.095	2	1.86	.017	.06	<.1	.04	3.1	<.1	<.05	7	<.5	15
18600E 9300N	.3	16.8	5.1	82	<.1	25.2	9.5	194	2.58	1.7	.2	1.3	.9	56	.1	.2	.1	46	.36	.225	3	35.8	.43	195	.106	2	2.34	.026	.06	<.1	<.01	3.8	<.1	<.05	7	<.5	15
18600E 9250N	.5	20.9	4.1	67	<.1	28.3	12.5	302	3.35	4.4	.3	2.1	1.1	71	.1	.9	.1	93	.39	.078	4	48.7	.63	119	.159	2	1.89	.033	.06	<.1	.01	4.3	<.1	<.05	6	<.5	15
18600E 9200N	.6	29.3	3.6	58	<.1	48.8	20.6	903	3.82	7.5	.5	3.7	1.5	102	.1	.7	<.1	92	.81	.104	13	52.9	1.26	139	.095	3	2.13	.039	.10	<.1	.02	9.0	<.1	<.05	6	<.5	15
18600E 9150N	.7	17.4	5.2	94	<.1	39.1	13.4	396	2.92	3.6	.4	.8	1.3	29	<.1	.5	.1	62	.21	.209	3	42.4	.41	146	.118	1	3.44	.019	.10	.1	.02	3.9	<.1	<.05	9	<.5	15
18600E 9100N	.5	16.9	4.8	87	<.1	35.3	12.0	397	2.66	2.9	.3	.9	1.0	33	.1	.3	.1	58	.23	.175	4	39.6	.41	170	.110	2	3.07	.023	.06	<.1	.02	3.6	<.1	<.05	8	<.5	15
RE 18600E 9100N	.4	16.4	4.7	88	<.1	34.4	12.0	388	2.63	3.1	.3	2.6	1.1	34	.1	.3	.1	57	.24	.177	4	38.6	.42	169	.110	2	3.04	.023	.06	<.1	.02	3.7	<.1	<.05	8	<.5	15
18600E 9050N	.5	17.4	4.9	69	<.1	38.9	13.0	396	2.95	2.8	.3	<.5	1.1	41	.1	.4	.1	68	.25	.171	3	44.6	.47	107	.119	2	3.27	.021	.09	<.1	.03	3.7	<.1	<.05	9	<.5	15
18600E 9000N	.5	16.8	5.0	72	<.1	32.4	11.1	414	2.55	2.4	.3	1.2	1.1	44	<.1	.3	.1	58	.31	.168	4	39.3	.49	134	.119	1	2.83	.020	.08	<.1	.02	3.6	<.1	<.05	8	<.5	15
18600E 8950N	.6	16.9	4.7	73	<.1	34.4	11.0	193	2.65	2.7	.3	1.7	1.2	38	.1	.3	.1	58	.23	.157	3	36.6	.41	160	.103	1	3.24	.021	.06	<.1	.02	3.5	<.1	<.05	8	<.5	15
18600E 8900N	.4	15.7	4.3	59	<.1	25.5	9.9	198	2.73	2.3	.3	4.7	.7	62	<.1	.5	.1	65	.29	.086	3	38.2	.45	93	.139	2	2.22	.028	.05	<.1	.01	3.2	<.1	<.05	6	<.5	15
18600E 8850N	.3	22.2	3.1	51	<.1	37.6	14.1	444	3.47	2.4	.7	2.2	1.6	94	<.1	.4	<.1	86	.58	.039	8	52.8	.94	91	.133	2	2.01	.062	.05	<.1	.02	8.6	<.1	<.05	6	<.5	15
STANDARD DS6	11.4	119.0	28.2	139	.3	24.4	10.5	684	2.78	20.8	6.5	46.6	3.0	39	5.9	3.5	4.9	55	.83	.076	13	186.5	.57	163	.079	16	1.88	.073	.15	3.5	.23	3.2	1.7	<.05	6	4.6	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
18600E 8800N	.5	23.0	4.6	71	<.1	38.3	14.7	573	3.32	2.7	.3	<.5	1.0	61	.1	.4	.1	81	.36	.089	5	49.6	.66	119	.137	2	3.37	.033	.07	<.1	.03	4.5	<.1	<.05	9	<.5	15
18600E 8750N	.1	21.1	6.4	43	<.1	29.3	6.9	200	2.22	.7	1.0	1.1	1.4	77	.1	.1	.1	38	.57	.016	10	29.8	.58	81	.108	1	2.32	.060	.03	<.1	.01	6.6	<.1	<.05	6	<.5	15
18600E 8700N	.3	23.6	4.5	73	<.1	52.9	16.3	282	3.25	1.9	.4	3.1	1.2	74	.1	.1	.1	55	.33	.159	4	40.3	.77	156	.118	3	4.29	.035	.08	<.1	.05	4.7	<.1	<.05	11	<.5	15
18600E 8650N	.3	20.3	4.5	61	<.1	40.1	12.7	398	3.35	1.2	.4	<.5	1.1	88	.1	.2	.1	66	.46	.057	4	39.7	.71	124	.149	2	3.13	.044	.06	<.1	.02	4.4	<.1	<.05	8	<.5	15
18600E 8600N	.6	17.5	3.0	73	<.1	77.6	23.0	609	3.93	1.4	.3	<.5	1.1	68	.1	.1	.1	67	.42	.100	6	36.0	1.31	89	.115	2	3.79	.057	.05	.1	.02	3.0	<.1	<.05	9	<.5	15
18600E 8550N	.3	40.0	2.7	51	<.1	67.9	24.3	545	3.85	2.3	.4	<.5	1.4	327	<.1	.1	<.1	71	.75	.101	13	32.6	1.91	233	.089	2	4.62	.179	.15	<.1	.02	7.2	.1	<.05	10	<.5	15
RE 18600E 8550N	.4	40.3	2.9	53	<.1	71.4	25.8	573	4.03	2.2	.6	1.2	1.5	334	.1	.1	<.1	72	.77	.105	14	33.0	2.07	235	.087	2	4.74	.186	.15	<.1	.02	7.4	.1	<.05	10	<.5	15
18600E 8500N	.4	20.8	3.9	62	<.1	33.9	15.8	919	3.54	8.1	1.1	1.4	1.3	118	.1	.4	<.1	85	.79	.087	12	37.0	.96	226	.058	2	2.33	.045	.06	<.1	.03	6.3	.1	<.05	6	<.5	15
18600E 8450N	.3	18.4	4.5	65	<.1	34.7	12.9	375	3.06	3.9	.4	<.5	.8	88	.1	.4	.1	71	.54	.045	6	40.3	.87	129	.140	2	2.85	.046	.06	<.1	.02	4.0	<.1	<.05	8	<.5	15
18600E 8400N	.6	24.3	3.7	64	<.1	32.0	14.9	462	3.29	13.2	.4	3.6	.8	108	.1	.5	.1	85	.62	.056	4	37.6	.88	154	.076	2	3.09	.035	.10	<.1	.05	4.9	<.1	<.05	8	<.5	15
18600E 8350N	.4	17.7	5.1	98	.2	30.0	12.9	490	2.89	8.4	.4	.6	1.1	42	.3	.7	.1	64	.32	.192	5	31.1	.52	111	.077	2	2.89	.023	.08	<.1	.04	3.4	<.1	<.05	10	<.5	15
18600E 8300N	.4	13.4	5.0	90	<.1	29.2	11.6	343	3.00	8.4	.4	1.2	1.2	30	.1	1.5	.1	63	.24	.181	4	32.5	.48	118	.077	2	3.14	.018	.06	<.1	.03	3.4	<.1	<.05	11	<.5	15
18600E 8250N	.4	29.7	3.4	53	<.1	40.3	16.1	596	3.58	7.3	1.1	<.5	1.8	165	.1	.5	.1	90	.72	.062	13	53.5	1.06	205	.107	2	2.80	.047	.11	<.1	.03	8.9	.1	<.05	8	<.5	15
18600E 8200N	.3	13.1	4.1	52	<.1	7.6	3.8	135	1.80	28.9	.4	<.5	1.9	11	<.1	1.2	.1	39	.18	.085	6	9.2	.21	73	.014	2	1.37	.008	.03	<.1	.03	2.7	<.1	<.05	7	<.5	15
18600E 8150N	.6	13.7	6.6	108	<.1	24.8	9.6	185	2.78	7.0	.4	<.5	1.0	22	.1	.6	.1	58	.19	.083	4	26.2	.30	109	.071	1	2.85	.013	.05	<.1	.05	2.7	<.1	<.05	11	<.5	15
18600E 8100N	.6	19.3	4.3	71	<.1	28.7	14.2	430	3.57	8.7	.5	<.5	1.0	57	.1	1.1	.1	93	.31	.053	4	39.2	.73	214	.104	1	3.01	.020	.08	<.1	.02	3.7	<.1	<.05	11	<.5	15
18600E 8050N	.5	22.0	4.9	75	<.1	32.8	12.5	355	3.08	10.6	.8	1.5	1.0	55	.1	1.0	.1	77	.56	.073	6	35.2	.59	377	.093	3	3.17	.027	.08	<.1	.03	3.9	<.1	<.05	10	<.5	15
18600E 8000N	.6	23.3	4.2	60	<.1	32.4	13.5	382	3.18	8.2	.6	2.2	1.0	68	.1	.9	.1	80	.42	.082	6	36.7	.74	245	.111	3	3.42	.030	.08	<.1	.02	4.2	<.1	<.05	11	<.5	15
18600E 7950N	1.2	21.4	5.1	65	<.1	18.3	12.4	496	3.19	21.0	.6	.5	.7	72	.1	1.1	.1	93	.42	.069	4	27.4	.70	173	.123	3	2.92	.027	.08	.1	.02	4.0	<.1	<.05	10	<.5	15
18600E 7900N	1.4	22.6	7.1	70	<.1	15.7	13.0	502	3.49	4.8	.7	<.5	1.5	34	.1	.3	.1	89	.22	.100	4	20.5	.47	132	.149	3	4.42	.021	.08	.1	.06	4.5	<.1	<.05	13	<.5	15
18600E 7850N	1.6	26.2	6.6	64	<.1	16.5	12.5	402	3.49	6.2	.8	1.3	1.6	31	.1	.4	.1	94	.19	.079	6	21.3	.52	127	.154	2	4.56	.020	.07	<.1	.06	5.4	.1	<.05	13	<.5	15
18600E 7800N	.7	32.1	6.8	59	<.1	13.2	16.2	456	4.43	5.6	.9	3.1	2.3	74	.1	.3	.1	128	.36	.071	3	19.4	.59	410	.223	2	7.77	.024	.09	<.1	.06	7.1	.1	<.05	16	<.5	15
18800E 10000N	.3	7.6	4.9	72	<.1	13.1	5.7	201	1.37	1.4	.2	.7	.7	28	<.1	<.1	.1	31	.20	.197	3	19.0	.21	94	.084	1	1.28	.035	.05	<.1	.02	1.8	<.1	<.05	5	<.5	15
18800E 9950N	.3	22.0	3.7	60	<.1	34.5	11.5	474	3.10	1.0	.4	.6	1.4	101	<.1	.2	.1	74	.71	.038	8	51.0	.70	144	.161	2	2.28	.095	.16	<.1	.01	6.6	<.1	<.05	6	<.5	15
18800E 9900N	.4	24.4	4.7	76	<.1	44.3	13.8	664	3.75	5.7	.3	1.0	1.2	77	.1	.3	.1	79	.87	.087	8	57.7	.51	344	.069	4	2.24	.057	.12	<.1	.06	9.1	.1	<.05	6	<.5	15
18800E 9850N	.4	11.5	4.9	99	<.1	28.5	7.8	362	2.20	1.0	.3	<.5	1.0	48	.1	.1	.1	45	.31	.082	3	39.3	.33	116	.139	2	2.51	.047	.08	<.1	.02	2.9	<.1	<.05	7	<.5	15
18800E 9800N	.4	31.6	4.2	104	<.1	54.5	17.3	693	4.28	.6	.2	1.0	.7	134	.1	.1	.1	114	.67	.055	6	105.7	1.03	114	.171	3	2.53	.109	.10	<.1	.01	8.1	<.1	<.05	8	<.5	15
18800E 9750N	.3	18.0	4.5	65	<.1	19.1	8.1	403	2.68	.9	.3	1.6	.8	93	.1	.1	.1	62	.55	.025	5	41.7	.47	106	.192	3	2.05	.079	.09	<.1	.02	4.0	<.1	<.05	6	<.5	15
18800E 9700N	.5	12.6	4.8	66	<.1	21.2	8.0	379	2.18	1.6	.3	<.5	.8	49	<.1	.2	.1	48	.31	.060	3	34.5	.33	124	.141	2	2.34	.041	.08	<.1	.03	2.7	<.1	<.05	7	<.5	15
18800E 9650N	.2	10.5	4.5	52	<.1	20.8	7.1	144	1.75	1.3	.2	1.6	.7	47	<.1	.1	.1	38	.28	.061	2	26.8	.30	98	.117	2	2.01	.046	.06	<.1	.01	2.1	<.1	<.05	6	<.5	15
18800E 9600N	.2	12.4	4.6	31	<.1	23.0	8.8	436	2.27	1.5	.3	3.9	.9	87	.1	.1	.1	46	.60	.013	6	33.7	.47	127	.125	6	1.99	.074	.07	<.1	.01	4.2	<.1	<.05	6	<.5	15
18800E 9550N	.2	14.3	5.2	65	<.1	28.3	8.5	363	2.43	.8	.4	1.2	1.1	48	<.1	.1	.1	48	.36	.043	4	41.0	.52	100	.118	1	2.40	.041	.08	<.1	.02	3.9	<.1	<.05	7	<.5	15
18800E 9500N	.6	18.9	3.9	80	<.1	27.0	10.8	635	2.82	.8	.3	2.0	1.1	42	<.1	.1	.1	66	.30	.086	2	51.0	.82	57	.197	2	1.91	.054	.10	<.1	.02	4.8	<.1	<.05	6	<.5	15
18800E 9450N	.5	29.7	3.0	74	<.1	47.5	18.4	894	3.80	.6	.5	1.4	1.5	55	<.1	.1	<.1	84	.45	.081	9	70.5	1.63	55	.189	2	2.21	.058	.14	<.1	.02	9.0	<.1	<.05	7	<.5	15
STANDARD DS6	11.6	121.9	28.5	143	.3	25.1	10.8	706	2.86	21.0	6.5	46.8	3.3	42	5.9	3.6	4.9	58	.87	.077	15	192.2	.58	168	.085	17	1.97	.076	.17	3.3	.22	3.4	1.8	<.05	7	4.5	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
18800E 9400N	.2	20.1	4.8	53	<.1	28.7	7.1	318	2.36	1.7	.7	.8	1.0	69	.1	.2	.1	50	.62	.029	14	36.7	.51	98	.113	3	2.29	.041	.06	<.1	.02	5.6	<.1	<.05	6	<.5	15
18800E 9300N	.4	27.7	2.4	51	<.1	37.0	13.0	391	3.32	4.1	.5	2.0	1.3	70	<.1	.2	.1	95	.46	.034	10	52.0	1.00	109	.156	2	2.02	.032	.07	.1	.02	8.1	<.1	<.05	5	<.5	15
18800E 9250N	.2	15.3	5.0	74	<.1	24.0	7.0	255	2.30	1.5	.4	<.5	.9	60	.1	.3	.1	47	.48	.054	8	35.1	.44	89	.117	3	2.07	.044	.06	<.1	.02	5.0	<.1	<.05	6	<.5	15
18800E 9200N	.4	20.9	3.9	58	<.1	32.6	13.0	317	3.23	3.5	.4	7.6	1.2	73	<.1	.6	.1	87	.40	.064	5	49.6	.70	115	.158	2	2.37	.032	.10	<.1	.02	5.2	<.1	<.05	7	<.5	15
18800E 9150N	.5	20.9	4.0	66	<.1	32.4	12.0	290	3.18	3.5	.4	<.5	1.0	66	.1	.6	.1	87	.35	.084	3	47.0	.52	110	.157	2	2.38	.033	.10	<.1	.02	4.1	<.1	<.05	6	<.5	15
18800E 9100N	.4	21.1	3.7	58	<.1	32.5	13.3	391	3.34	2.8	.3	<.5	1.1	77	.1	.7	.1	81	.51	.065	5	48.7	.75	101	.144	3	2.01	.045	.12	<.1	.02	5.6	<.1	<.05	6	<.5	15
18800E 9050N	.2	23.4	3.1	58	.1	31.7	10.7	346	3.01	1.7	.7	<.5	1.1	98	.1	.4	.1	65	.67	.026	11	47.1	.83	87	.136	3	1.94	.067	.06	<.1	.03	7.4	<.1	<.05	5	<.5	15
18800E 9000N	.4	36.4	3.4	82	<.1	21.4	13.1	704	4.58	3.6	.4	1.6	1.4	81	.1	.4	<.1	82	.80	.078	14	33.9	.80	92	.094	4	1.92	.030	.17	<.1	.02	9.6	.1	<.05	7	<.5	15
18800E 8950N	.4	13.1	3.6	91	<.1	26.4	11.9	390	3.28	3.2	.8	.5	1.4	154	<.1	.3	.1	90	.58	.054	6	44.0	.59	271	.085	3	2.29	.035	.18	<.1	.02	8.5	.1	<.05	6	<.5	15
18800E 8900N	.4	19.4	4.5	63	<.1	36.4	13.1	265	3.17	5.3	.7	2.5	1.1	74	<.1	.3	.1	72	.46	.101	4	41.6	.64	176	.118	3	3.04	.028	.09	<.1	.02	4.6	<.1	<.05	9	<.5	15
18800E 8850N	.4	16.5	4.7	66	<.1	32.0	12.6	272	2.80	3.2	.3	<.5	.8	51	.1	.3	.1	69	.29	.150	3	41.8	.48	113	.141	1	2.85	.024	.07	<.1	.03	3.3	<.1	<.05	8	<.5	15
18800E 8800N	.3	15.6	4.8	74	<.1	27.1	10.0	345	2.32	1.9	.3	1.1	.6	41	<.1	.2	.1	55	.33	.093	5	35.9	.46	82	.129	2	2.43	.032	.05	<.1	.03	3.1	<.1	<.05	7	<.5	15
18800E 8750N	.4	27.7	3.7	60	<.1	40.1	17.3	691	3.37	4.0	.5	.8	1.2	97	.1	.3	.1	92	.57	.091	10	55.4	.97	121	.157	2	2.55	.048	.09	<.1	.01	7.0	<.1	<.05	7	<.5	15
18800E 8700N	.5	30.3	3.2	57	<.1	37.0	15.2	436	3.58	3.8	.3	<.5	1.1	105	.1	.3	<.1	102	.50	.066	8	57.0	.99	124	.160	2	2.51	.042	.08	<.1	.01	6.0	<.1	<.05	7	<.5	15
18800E 8650N	.5	22.4	5.2	86	<.1	41.8	14.4	594	3.09	3.2	.4	.9	1.2	53	.1	.2	.1	74	.31	.150	5	46.8	.62	130	.139	2	3.15	.024	.10	<.1	.01	4.7	.1	<.05	9	<.5	15
18800E 8600N	.5	17.4	5.3	71	<.1	31.8	11.8	426	2.69	3.0	.3	<.5	.8	36	.1	.2	.1	64	.22	.134	4	42.6	.45	105	.126	2	2.72	.023	.06	<.1	.02	3.1	<.1	<.05	8	<.5	15
18800E 8550N	.4	14.5	4.3	58	<.1	21.3	10.5	245	2.48	1.4	.4	1.0	.8	60	<.1	.2	.1	58	.38	.077	4	36.9	.58	93	.140	1	1.93	.042	.04	<.1	.02	3.4	<.1	<.05	6	<.5	15
RE 18800E 8550N	.4	14.8	4.1	59	<.1	21.8	10.5	253	2.53	1.5	.3	<.5	.8	61	.1	.2	.1	58	.40	.078	4	37.6	.58	96	.149	2	2.02	.046	.05	<.1	.02	3.5	<.1	<.05	6	<.5	15
18800E 8500N	.4	27.7	3.6	55	<.1	51.1	20.2	685	3.71	2.6	.6	.9	1.6	147	<.1	.2	<.1	92	.81	.108	15	43.7	1.47	111	.153	3	2.23	.063	.11	<.1	.01	7.6	<.1	<.05	7	<.5	15
18800E 8450N	.4	18.8	3.7	41	<.1	52.8	18.4	405	3.67	9.0	1.2	1.4	1.5	110	.1	.5	.1	93	.67	.032	6	37.9	1.32	339	.113	2	3.43	.088	.10	<.1	.01	6.6	.1	<.05	8	<.5	15
18800E 8400N	.2	14.0	4.4	56	<.1	27.6	9.7	292	2.58	1.2	.5	.9	1.0	101	.1	.2	.1	60	.60	.018	4	38.0	.83	88	.185	2	1.99	.069	.05	<.1	.01	4.5	<.1	<.05	6	<.5	15
18800E 8350N	.5	18.9	5.3	51	<.1	41.4	15.3	249	2.88	2.5	.4	2.6	1.1	52	.1	.2	.1	62	.26	.118	4	42.7	.73	115	.175	1	3.91	.028	.07	<.1	.04	3.8	<.1	<.05	10	<.5	15
18800E 8300N	.5	23.5	4.1	52	<.1	63.1	22.2	464	3.83	2.5	.6	1.0	1.4	123	.1	.1	<.1	80	.63	.077	7	51.0	1.62	170	.233	1	4.29	.052	.09	<.1	.02	7.1	<.1	<.05	9	<.5	15
18800E 8250N	.7	19.1	4.3	75	.1	25.5	11.5	311	2.76	8.9	.4	2.8	1.0	38	.1	.7	.1	65	.35	.155	4	29.4	.54	145	.097	3	3.05	.016	.08	.1	.06	3.0	<.1	<.05	9	<.5	15
18800E 8200N	.5	16.0	4.3	56	<.1	23.3	10.6	240	2.67	5.5	.4	1.5	.8	41	.1	.5	.1	66	.30	.128	4	30.8	.46	131	.099	2	2.72	.020	.06	<.1	.03	2.8	<.1	<.05	9	<.5	15
18800E 8150N	.6	18.9	4.4	128	<.1	30.2	13.1	521	3.01	15.7	1.1	1.1	1.2	65	.1	.8	.1	87	.64	.066	6	30.9	.64	248	.107	3	3.08	.023	.06	.1	.04	4.3	<.1	<.05	10	<.5	15
18800E 8100N	.4	21.0	4.2	39	.2	14.9	9.4	252	2.35	83.5	12.1	1.0	.4	118	.2	.7	.1	62	1.00	.064	12	21.1	.35	339	.059	3	2.27	.023	.03	<.1	.08	3.0	.1	<.05	8	.7	15
18800E 8050N	.5	11.6	5.1	72	<.1	9.5	7.2	298	2.65	24.3	.6	2.3	1.5	10	<.1	2.0	.1	71	.13	.093	7	15.9	.23	87	.050	4	1.65	.009	.06	.1	.04	2.8	<.1	<.05	10	<.5	15
18800E 8000N	.6	20.2	4.8	42	<.1	17.6	11.9	540	2.58	14.3	1.0	1.5	1.6	45	.1	.7	.1	91	.31	.024	7	26.7	.62	228	.133	2	2.06	.034	.04	.1	.02	3.8	.1	<.05	8	<.5	15
18800E 7950N	.8	21.8	4.5	84	<.1	29.0	13.1	631	3.20	6.2	.4	1.1	1.2	42	.1	.8	.1	83	.29	.086	5	36.0	.68	185	.135	3	3.04	.018	.09	<.1	.02	3.6	.1	<.05	11	<.5	15
18800E 7900N	.5	16.6	5.1	56	<.1	16.1	9.5	639	2.29	9.8	.5	3.1	.8	70	.1	1.0	.1	76	.69	.041	6	26.8	.60	101	.135	2	1.95	.038	.06	<.1	.03	3.9	<.1	<.05	7	<.5	15
18800E 7850N	.7	17.4	6.2	66	.1	14.9	10.1	359	2.80	4.8	.4	1.2	.9	91	.1	.5	.1	83	.25	.139	3	25.4	.54	205	.141	1	3.08	.016	.12	<.1	.03	4.1	<.1	<.05	11	<.5	15
18800E 7800N	.5	31.6	5.1	71	<.1	24.1	13.8	406	3.51	6.3	.9	2.2	1.6	68	.1	.9	.1	98	.42	.073	10	33.8	.78	183	.149	1	4.20	.019	.08	.1	.03	6.6	<.1	<.05	12	<.5	15
19000E 10000N	.4	16.7	3.6	62	<.1	29.9	9.7	300	3.05	.6	.3	1.5	1.4	105	.1	.1	.1	65	.51	.084	4	57.7	.52	80	.163	3	2.22	.056	.16	<.1	.01	4.1	<.1	<.05	6	<.5	15
STANDARD DS6	11.6	122.2	28.9	143	.3	25.2	10.8	698	2.84	21.0	6.5	46.0	3.2	40	5.9	3.5	4.9	56	.86	.077	14	190.3	.58	165	.080	17	1.92	.074	.16	3.5	.22	3.3	1.8	<.05	7	4.2	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19000E 9950N	.4	22.9	3.2	67	<.1	44.3	15.4	744	3.26	<.5	.3	<.5	1.2	114	.1	.1	<.1	69	.62	.037	9	59.9	.68	82	.133	3	1.60	.062	.16	<.1	.01	8.1	<.1	<.05	5	<.5	15
19000E 9900N	.3	21.4	3.2	49	<.1	38.8	13.8	499	3.13	.5	.4	<.5	1.4	123	.1	.1	<.1	68	.73	.072	12	48.4	.88	93	.149	2	1.98	.062	.15	<.1	.02	6.8	<.1	<.05	5	<.5	15
19000E 9850N	.5	17.5	3.7	48	<.1	30.7	11.6	634	2.95	<.5	.3	<.5	1.1	109	.1	.1	.1	81	.53	.033	7	77.4	.54	79	.142	2	1.40	.059	.13	<.1	.03	4.5	<.1	<.05	4	<.5	15
19000E 9800N	.4	8.9	4.6	42	<.1	20.2	7.0	309	2.11	<.5	.2	1.6	.7	52	.1	<.1	.1	45	.26	.037	2	48.2	.29	84	.135	1	1.84	.031	.06	<.1	.02	2.0	<.1	<.05	5	<.5	15
19000E 9750N	.7	18.5	4.5	69	<.1	31.9	13.2	357	3.23	.8	.4	<.5	1.4	85	<.1	.1	.1	74	.36	.090	3	49.6	.62	124	.162	2	2.28	.032	.11	<.1	.01	3.9	<.1	<.05	6	<.5	15
19000E 9700N	.5	13.9	4.5	59	<.1	25.3	9.6	376	2.83	.7	.5	<.5	1.2	88	.1	.1	.3	66	.45	.051	4	47.4	.48	110	.148	3	2.12	.033	.07	<.1	.02	3.7	<.1	<.05	6	<.5	15
19000E 9650N	.5	24.5	2.7	50	<.1	41.3	13.7	393	3.21	1.8	.5	1.5	1.7	130	<.1	.2	.1	87	.63	.109	10	58.6	.93	80	.126	2	2.06	.054	.13	<.1	.01	6.2	<.1	<.05	5	<.5	15
19000E 9600N	.7	19.9	7.2	42	<.1	30.1	11.4	1530	2.16	1.8	3.9	<.5	.9	140	.1	.1	.1	54	1.07	.063	6	42.9	.70	83	.090	5	1.44	.055	.10	<.1	.10	4.1	<.1	<.05	4	<.5	15
19000E 9550N	.5	26.7	4.0	57	<.1	44.2	17.3	634	3.56	2.8	3.8	1.4	1.4	108	.1	.3	.1	93	.76	.077	12	50.1	1.24	105	.106	4	1.80	.071	.09	<.1	.03	6.3	<.1	<.05	5	<.5	15
19000E 9500N	.4	35.1	3.0	59	<.1	61.7	22.7	772	3.66	1.8	.6	1.6	1.9	146	.1	.2	<.1	89	1.07	.104	15	51.9	1.89	114	.115	2	2.02	.097	.10	<.1	.01	8.3	<.1	<.05	6	<.5	15
19000E 9450N	.4	19.3	3.6	57	<.1	36.7	11.6	243	2.89	2.7	.3	1.9	1.1	77	.1	.3	.1	70	.39	.175	3	47.7	.51	131	.121	1	3.04	.031	.10	<.1	.02	4.3	<.1	<.05	8	<.5	15
19000E 9400N	.3	11.8	4.2	46	<.1	23.7	7.7	326	2.26	1.1	.2	.7	.8	59	<.1	.1	.1	47	.32	.093	2	36.0	.37	91	.120	<1	2.03	.032	.09	<.1	.01	2.9	<.1	<.05	6	<.5	15
19000E 9350N	.3	14.6	3.5	34	<.1	26.4	9.0	228	2.58	1.8	.3	.9	.9	96	<.1	.1	.1	61	.41	.062	3	44.9	.52	109	.128	1	2.19	.046	.07	<.1	.01	3.2	<.1	<.05	5	<.5	15
19000E 9300N	.4	29.8	3.4	73	<.1	52.5	21.5	581	4.58	3.1	.3	.9	.8	84	.1	.1	.1	89	.64	.114	9	69.3	1.05	69	.069	3	2.14	.060	.05	<.1	.01	6.9	<.1	<.05	5	<.5	15
19000E 9250N	.6	26.0	3.7	48	<.1	31.3	11.8	205	4.24	2.9	.2	1.7	.9	64	<.1	.2	.3	92	.42	.054	4	66.9	.30	67	.087	3	1.99	.040	.03	<.1	.02	7.0	<.1	<.05	5	<.5	15
RE 19000E 9250N	.5	26.2	3.7	47	<.1	30.4	11.5	204	4.15	2.8	.2	.6	.9	65	<.1	.1	.3	87	.41	.055	4	64.9	.29	68	.077	3	1.87	.036	.03	<.1	.01	7.1	<.1	<.05	5	<.5	15
19000E 9200N	.3	29.9	4.6	69	<.1	44.2	15.2	461	4.19	2.5	.3	1.2	.8	70	.1	.1	.1	64	.52	.083	5	48.9	.99	86	.115	7	2.58	.030	.14	<.1	.01	5.4	.1	<.05	7	<.5	15
19000E 9150N	.4	28.9	2.7	51	<.1	37.5	13.9	534	3.12	3.3	.4	1.0	1.3	110	.1	.3	.1	85	.72	.088	11	45.9	1.06	94	.118	3	1.50	.068	.09	.1	.02	7.1	<.1	<.05	5	<.5	15
19000E 9100N	.3	21.8	3.1	54	<.1	32.5	12.2	436	3.05	2.5	.4	1.2	1.4	103	.1	.4	<.1	71	.66	.045	8	47.2	.86	109	.118	3	1.72	.051	.08	<.1	.03	7.7	<.1	<.05	5	<.5	15
19000E 9050N	.4	37.7	5.0	33	.1	12.7	4.8	278	1.09	2.3	4.8	1.6	1.0	150	.2	.1	.1	29	1.15	.040	29	11.1	.22	172	.010	1	1.28	.011	.05	<.1	.04	2.4	<.1	<.05	4	<.5	15
19000E 9000N	.4	12.9	4.9	36	<.1	13.0	6.2	281	1.73	2.5	.5	1.0	1.1	308	.1	.2	.1	33	.72	.053	16	17.9	.47	418	.012	1	1.89	.015	.12	<.1	.03	4.0	<.1	<.05	5	<.5	15
19000E 8950N	.5	22.2	3.4	61	<.1	27.9	11.0	716	2.74	6.6	.5	1.1	1.3	71	.1	.5	.1	72	.46	.115	11	37.1	.55	135	.075	2	2.21	.026	.10	<.1	.02	6.3	.1	<.05	6	<.5	15
19000E 8900N	.6	17.3	5.0	53	<.1	22.7	10.9	381	2.71	5.0	.3	1.7	1.0	64	<.1	.3	.1	68	.43	.076	7	33.1	.55	130	.068	2	2.06	.023	.09	<.1	.03	3.9	<.1	<.05	6	<.5	15
19000E 8850N	.5	22.5	4.1	53	<.1	33.5	12.6	363	3.11	3.3	.3	<.5	.9	79	<.1	.2	.1	82	.35	.089	4	48.0	.63	158	.126	1	2.74	.023	.07	<.1	.03	3.6	<.1	<.05	7	<.5	15
19000E 8800N	.5	20.9	3.6	53	<.1	28.6	12.6	281	2.92	3.3	.3	.9	.8	72	<.1	.3	.1	75	.39	.129	4	46.3	.61	134	.128	1	2.19	.036	.08	<.1	.02	4.0	<.1	<.05	6	<.5	15
19000E 8750N	.5	26.2	3.6	57	<.1	36.1	14.5	394	3.35	3.1	.4	2.5	1.2	101	.1	.2	.1	91	.49	.088	9	52.2	.93	123	.134	1	2.15	.037	.06	<.1	.01	5.7	<.1	<.05	6	<.5	15
19000E 8700N	.5	34.2	3.2	52	<.1	40.7	15.8	577	3.40	3.9	.7	3.6	1.5	120	.1	.3	<.1	86	.71	.094	14	52.1	1.19	122	.115	2	1.96	.048	.13	<.1	.02	9.0	<.1	<.05	6	<.5	15
19000E 8650N	.4	17.7	4.2	63	<.1	28.5	12.5	559	2.71	3.2	.3	4.1	.8	51	<.1	.2	.1	62	.31	.292	4	40.9	.45	122	.100	1	2.43	.020	.07	<.1	.04	3.8	<.1	<.05	7	<.5	15
19000E 8600N	.4	26.6	3.2	51	<.1	34.2	13.2	450	3.24	3.3	.5	1.1	1.3	102	.1	.4	<.1	90	.50	.070	10	49.2	.83	117	.130	1	2.01	.035	.07	<.1	.02	7.5	<.1	<.05	6	<.5	15
19000E 8550N	.5	16.9	6.4	56	<.1	41.3	10.7	177	3.11	7.6	.6	.8	1.7	47	.1	.2	.1	77	.33	.399	5	39.1	.48	166	.136	2	4.23	.020	.06	.1	.02	4.2	<.1	<.05	11	<.5	15
19000E 8500N	.5	22.2	5.5	71	<.1	27.0	10.6	340	2.72	2.9	.5	.7	.8	61	<.1	.1	.1	66	.38	.107	4	33.2	.59	160	.141	1	2.83	.022	.09	<.1	.02	3.3	<.1	<.05	9	<.5	15
19000E 8450N	.5	20.7	4.6	60	<.1	29.9	13.9	369	3.16	2.5	.5	1.4	1.1	63	.1	.1	<.1	83	.31	.126	7	19.3	.81	101	.159	1	3.05	.043	.05	<.1	.01	3.7	<.1	<.05	9	<.5	15
19000E 8400N	.3	21.1	4.4	52	<.1	52.3	17.1	421	3.25	1.4	.5	.5	1.0	83	.1	.1	<.1	72	.54	.094	4	37.7	1.24	113	.179	<1	2.80	.041	.07	<.1	.02	4.1	<.1	<.05	7	<.5	15
19000E 8350N	.3	18.4	4.5	51	<.1	65.0	20.5	354	3.35	.8	.4	.7	1.1	118	.1	<.1	<.1	71	.57	.110	9	43.6	1.68	60	.125	<1	2.93	.053	.05	<.1	.02	4.4	<.1	<.05	7	<.5	15
STANDARD DS6	11.6	122.4	28.7	143	.3	25.3	10.8	707	2.84	20.9	6.5	48.3	3.1	40	5.9	3.5	5.0	56	.86	.078	14	190.8	.58	163	.082	17	1.92	.074	.16	3.7	.23	3.3	1.8	<.05	7	4.5	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19000E 8300N	.3	18.8	5.0	52	<.1	27.3	10.0	328	2.40	1.5	.6	1.0	1.1	58	.1	.1	.1	65	.41	.170	7	27.8	.54	83	.120	1	3.28	.070	.03	<.1	.03	3.1	<.1	<.05	8	<.5	15.0
19000E 8250N	.3	21.8	4.2	60	<.1	31.1	13.1	405	2.98	2.8	.6	6.0	1.2	87	.1	.3	.1	82	.49	.059	9	40.1	.82	173	.141	2	2.55	.040	.08	<.1	.01	4.6	<.1	<.05	7	<.5	15.0
19000E 8200N	.4	23.4	4.4	59	<.1	40.7	16.4	359	3.23	3.3	.6	<.5	1.2	81	.1	.3	.1	73	.45	.082	5	42.8	1.09	291	.144	1	3.39	.028	.08	<.1	.03	4.1	<.1	<.05	8	<.5	15.0
19000E 8150N	.5	23.6	4.8	61	.1	34.4	13.7	274	3.19	5.7	.5	5.3	.7	61	.1	.2	.1	72	.36	.130	5	34.7	.71	237	.107	1	3.53	.026	.05	<.1	.04	3.5	<.1	<.05	9	<.5	15.0
19000E 8100N	.5	19.4	4.6	55	<.1	32.4	12.2	324	3.03	4.8	.5	.7	.9	75	.1	.4	.1	81	.47	.054	5	37.2	.66	382	.121	2	2.93	.025	.07	<.1	.04	3.1	<.1	<.05	8	<.5	15.0
19000E 8050N	.3	29.6	5.1	41	.1	29.5	10.1	287	2.88	9.0	1.8	<.5	1.5	79	.1	.4	.1	78	.65	.033	13	33.6	.65	576	.114	1	2.93	.025	.06	<.1	.03	6.1	<.1	<.05	9	<.5	15.0
RE 19000E 8300N	.4	20.6	5.5	56	<.1	29.4	10.7	342	2.49	1.6	.7	.7	1.1	64	.1	.1	.1	66	.45	.178	7	29.8	.56	89	.128	1	3.51	.076	.04	<.1	.02	3.4	<.1	<.05	9	<.5	15.0
19000E 8000N	.8	27.3	5.1	45	.1	25.2	10.5	301	2.76	33.1	.6	.5	.9	38	.1	.4	.1	77	.20	.038	6	31.4	.56	288	.114	1	2.83	.022	.06	.1	.04	3.2	<.1	<.05	10	<.5	15.0
19000E 7950N	1.2	12.1	6.4	48	<.1	15.4	6.4	171	2.57	22.3	.3	1.1	.5	23	.1	.5	.1	85	.18	.044	3	21.8	.42	121	.137	1	1.97	.011	.04	.1	.03	2.2	<.1	<.05	12	<.5	15.0
19000E 7900N	.7	12.3	6.1	59	<.1	13.8	9.2	345	2.21	14.2	.4	1.2	.8	49	.1	.9	.1	68	.34	.030	4	21.9	.57	140	.120	1	1.72	.017	.06	<.1	.02	2.6	<.1	<.05	8	<.5	15.0
19000E 7850N	.5	7.9	4.9	49	<.1	10.6	7.8	349	2.07	22.4	.4	<.5	.8	93	<.1	.5	.1	66	.44	.023	4	18.3	.55	110	.078	2	1.65	.018	.04	<.1	.02	2.8	<.1	<.05	7	<.5	15.0
19000E 7800N	.6	17.1	5.2	42	<.1	19.6	11.0	575	2.75	74.8	.8	.7	1.2	114	.1	1.0	.1	98	.65	.023	6	30.3	.78	107	.116	2	2.32	.049	.03	<.1	.01	5.3	<.1	<.05	7	<.5	15.0
19200E 10000N	.3	11.3	2.3	51	<.1	17.8	7.6	355	2.33	<.5	.2	<.5	.7	106	<.1	<.1	<.1	47	.44	.029	3	47.5	.34	76	.156	2	1.29	.066	.10	<.1	.02	3.3	<.1	<.05	3	<.5	15.0
19200E 9950N	.3	14.3	2.4	62	<.1	20.0	8.5	597	2.42	<.5	.1	<.5	.8	102	.1	<.1	<.1	50	.42	.041	3	47.9	.41	82	.147	2	1.28	.055	.15	<.1	.01	3.7	<.1	<.05	3	<.5	15.0
19200E 9900N	.5	18.7	2.3	65	<.1	34.1	11.9	450	2.88	<.5	.3	<.5	1.2	126	.1	<.1	<.1	54	.60	.050	5	47.6	.76	97	.149	3	1.74	.064	.12	<.1	.02	5.1	<.1	<.05	4	<.5	15.0
19200E 9850N	.3	14.2	3.6	50	<.1	20.5	8.0	392	2.48	<.5	.4	<.5	1.0	65	<.1	.1	.1	60	.38	.025	4	38.0	.45	71	.170	1	1.68	.063	.11	<.1	.01	3.9	<.1	<.05	5	<.5	15.0
19200E 9800N	.6	16.4	3.9	52	<.1	18.6	9.4	363	3.30	<.5	.4	1.1	1.1	59	<.1	.1	.1	70	.44	.025	3	37.0	.34	78	.160	1	1.71	.057	.08	<.1	.01	4.9	<.1	<.05	5	<.5	15.0
19200E 9750N	.3	10.7	3.8	77	<.1	14.9	5.7	423	1.94	<.5	.2	1.0	.7	49	.1	.1	.1	47	.31	.022	3	27.4	.29	78	.139	1	1.30	.059	.07	<.1	.01	2.8	<.1	<.05	4	<.5	15.0
19200E 9700N	.5	10.8	3.9	52	<.1	18.4	7.6	296	2.36	<.5	.3	.5	.8	59	<.1	.1	.1	62	.34	.022	3	46.3	.31	71	.160	1	1.49	.052	.07	<.1	.01	3.0	<.1	<.05	4	<.5	15.0
19200E 9650N	.4	32.4	3.4	56	<.1	56.5	16.7	390	3.93	.7	.7	<.5	1.9	116	.1	.1	<.1	96	.67	.052	21	79.3	1.07	110	.175	1	3.14	.057	.14	<.1	.01	11.3	.1	<.05	8	<.5	7.5
19200E 9600N	.4	18.0	3.8	59	<.1	24.6	10.0	608	2.83	<.5	.3	<.5	1.1	88	.1	.1	.1	85	.55	.035	7	59.4	.43	80	.172	2	1.49	.083	.16	<.1	.02	4.6	<.1	<.05	4	<.5	15.0
19200E 9550N	.4	17.6	4.0	50	<.1	30.3	12.7	545	2.91	<.5	.4	1.6	1.1	105	.1	.1	.1	72	.48	.044	6	53.8	.66	91	.171	2	1.85	.060	.11	<.1	.02	4.6	<.1	<.05	5	<.5	15.0
19200E 9500N	.4	19.8	3.9	63	<.1	34.7	12.7	497	3.15	.6	.6	<.5	1.4	101	.1	<.1	.1	59	.67	.113	6	49.8	.82	140	.159	6	2.27	.056	.23	<.1	.01	5.7	<.1	<.05	6	<.5	15.0
19200E 9450N	.4	19.0	3.2	40	<.1	35.3	12.9	451	3.48	<.5	.4	<.5	1.3	120	<.1	.1	<.1	84	.51	.037	7	83.7	.60	88	.178	1	1.80	.059	.11	<.1	.01	4.8	<.1	<.05	5	<.5	15.0
19200E 9400N	.3	29.6	2.6	53	<.1	55.6	21.2	665	3.76	.6	2.7	<.5	1.6	179	.1	.1	.1	88	.98	.084	13	62.4	1.70	101	.150	3	2.20	.110	.11	<.1	.01	7.5	<.1	<.05	6	<.5	15.0
19200E 9350N	.5	15.6	2.8	50	<.1	25.8	10.4	366	2.87	<.5	.2	<.5	.8	125	.1	.1	<.1	65	.53	.048	3	63.0	.53	98	.166	3	1.63	.077	.14	<.1	.01	3.6	<.1	<.05	4	<.5	15.0
19200E 9300N	.2	34.1	3.7	70	<.1	56.7	25.3	657	4.30	1.1	7.1	.9	1.4	124	.1	.1	<.1	84	.79	.090	14	59.5	1.93	68	.183	7	2.26	.067	.22	<.1	.01	11.4	.1	<.05	7	<.5	15.0
19200E 9250N	.3	27.7	2.4	44	<.1	44.3	14.6	420	3.38	.5	3.5	<.5	1.5	174	.1	.1	<.1	76	1.05	.073	14	62.2	1.20	79	.146	6	1.96	.122	.07	<.1	.01	6.2	<.1	<.05	5	<.5	15.0
19200E 9200N	.4	33.1	3.3	58	<.1	60.0	21.1	749	3.73	.7	.5	.8	1.7	170	.1	.1	.1	85	1.20	.114	14	57.7	1.83	88	.143	3	2.28	.138	.12	<.1	.01	7.2	<.1	<.05	6	<.5	7.5
19200E 9150N	.4	16.3	4.2	65	<.1	38.5	12.7	431	3.33	.5	.3	<.5	1.1	81	<.1	<.1	.1	67	.43	.100	3	66.0	.61	113	.182	1	3.03	.055	.08	<.1	.01	4.4	<.1	<.05	7	<.5	15.0
19200E 9100N	.3	13.4	3.6	63	<.1	23.9	8.2	435	2.68	<.5	.2	<.5	.8	73	<.1	<.1	.1	55	.37	.058	3	59.1	.44	96	.173	1	2.25	.051	.05	<.1	.01	3.5	<.1	<.05	6	<.5	15.0
19200E 9050N	.3	46.4	1.2	70	<.1	59.9	22.7	474	5.13	1.2	.3	1.2	.8	68	<.1	.1	<.1	143	.63	.156	11	100.7	1.55	66	.209	1	1.78	.064	.15	<.1	<.01	3.3	<.1	<.05	7	<.5	15.0
19200E 9000N	.4	15.5	4.5	57	<.1	20.9	11.1	275	2.76	3.1	.4	<.5	.9	66	<.1	.2	.1	60	.37	.068	6	34.9	.49	120	.090	1	2.19	.028	.07	<.1	.01	4.0	<.1	<.05	7	<.5	15.0
19200E 8950N	.5	18.4	4.1	55	<.1	23.6	10.1	360	2.92	2.5	.5	1.4	1.2	83	<.1	.2	<.1	76	.42	.062	6	40.7	.56	156	.112	1	2.12	.026	.08	.1	.02	4.0	.1	<.05	6	<.5	15.0
STANDARD DS6	11.7	122.6	28.8	142	.3	25.2	10.9	707	2.86	21.1	6.6	45.6	3.1	41	5.9	3.6	5.0	56	.86	.078	14	191.5	.59	166	.081	16	1.95	.075	.16	3.5	.24	3.3	1.8	<.05	7	4.5	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19200E 8900N	.4	17.0	4.5	65	<.1	23.9	11.2	187	2.83	5.5	.4	.6	1.9	41	<.1	.5	.1	59	.32	.210	4	30.1	.52	130	.075	1	2.72	.018	.07	<.1	.02	4.7	<.1	<.05	7	<.5	15.0
19200E 8850N	.3	12.0	4.4	57	.1	17.0	8.4	417	2.27	4.6	.4	.6	.9	37	.1	.4	.1	52	.25	.151	4	24.2	.41	146	.079	1	1.79	.020	.06	.1	.01	2.9	<.1	<.05	6	<.5	15.0
19200E 8800N	.4	14.9	3.8	45	<.1	26.6	9.7	263	2.66	2.2	.3	<.5	.9	75	<.1	.3	.1	69	.32	.078	4	37.8	.51	140	.105	2	2.25	.021	.09	<.1	.02	3.0	<.1	<.05	6	<.5	15.0
19200E 8750N	.5	17.1	5.1	82	<.1	26.2	11.7	766	2.60	3.0	.4	1.1	1.0	53	.1	.3	.1	58	.32	.111	4	34.3	.58	135	.117	1	2.11	.027	.06	<.1	.02	3.5	<.1	<.05	7	<.5	15.0
19200E 8700N	.5	24.3	3.4	49	<.1	32.2	12.3	592	2.91	3.4	.5	2.9	1.6	123	.1	.2	<.1	82	.61	.092	11	43.9	.80	131	.117	2	1.78	.050	.07	<.1	.02	6.8	<.1	<.05	5	<.5	15.0
19200E 8650N	.5	16.7	3.4	44	<.1	27.6	10.9	256	2.78	1.6	.3	.6	1.1	68	<.1	.1	<.1	71	.30	.109	5	44.3	.51	100	.102	1	2.27	.030	.04	<.1	.01	3.5	<.1	<.05	6	<.5	15.0
19200E 8600N	.3	22.2	5.3	53	<.1	31.0	10.0	364	2.60	1.5	1.0	.9	1.4	90	.1	.1	.1	54	.60	.022	16	41.1	.83	104	.162	1	2.22	.038	.04	<.1	.02	8.9	<.1	<.05	6	<.5	15.0
RE 19200E 8850N	.4	12.7	4.3	57	.1	17.6	8.7	443	2.27	4.6	.4	.5	1.0	38	.1	.5	.1	54	.26	.156	4	25.5	.40	153	.090	1	1.85	.021	.06	<.1	.01	3.0	<.1	<.05	6	<.5	15.0
19200E 8550N	.5	19.1	3.8	49	<.1	32.6	12.4	324	2.84	3.2	.3	2.5	.9	71	<.1	.2	.1	78	.34	.088	4	45.8	.66	144	.134	1	2.57	.026	.08	<.1	.03	3.6	<.1	<.05	6	<.5	15.0
19200E 8500N	.6	17.2	4.9	54	<.1	36.1	12.0	219	2.68	3.5	.3	1.2	1.1	46	<.1	.1	.1	61	.24	.188	4	40.2	.52	92	.121	<1	3.19	.022	.06	<.1	.02	3.6	<.1	<.05	8	<.5	15.0
19200E 8450N	.4	18.0	5.4	53	<.1	41.4	15.7	398	2.85	2.5	.4	1.1	1.1	65	.1	.1	.1	61	.37	.155	3	41.7	.85	110	.159	1	2.97	.022	.07	<.1	.02	3.9	<.1	<.05	8	<.5	15.0
19200E 8400N	.3	25.0	4.5	53	<.1	58.3	19.5	549	3.89	.8	.6	1.4	1.8	120	<.1	.1	<.1	88	.55	.044	10	57.3	1.63	136	.248	<1	2.72	.036	.06	<.1	.01	10.4	<.1	<.05	7	<.5	15.0
19200E 8350N	.4	20.0	5.2	56	<.1	57.6	19.0	403	3.60	1.0	.3	1.5	1.0	53	.1	<.1	.1	88	.32	.093	3	65.8	1.27	78	.258	<1	3.78	.028	.03	<.1	.02	3.7	<.1	<.05	10	<.5	15.0
19200E 8300N	.3	19.4	6.5	61	<.1	56.4	22.2	664	3.86	.7	.5	.7	1.7	114	.1	<.1	.1	74	.50	.080	4	48.6	1.66	124	.149	<1	4.45	.042	.12	<.1	.03	8.2	.1	<.05	11	<.5	15.0
19200E 8250N	.5	26.2	4.8	51	<.1	40.1	15.1	300	3.48	3.5	.5	1.0	1.8	94	<.1	.4	.1	86	.30	.060	9	51.4	.91	262	.127	1	4.32	.019	.05	<.1	.04	6.1	.1	<.05	9	<.5	15.0
19200E 8200N	.6	24.7	5.1	53	<.1	36.8	14.7	304	3.36	8.8	.7	1.5	1.8	85	.1	.4	.1	80	.32	.072	10	45.8	.83	211	.115	<1	4.18	.018	.05	<.1	.05	6.4	<.1	<.05	10	<.5	15.0
19200E 8150N	.5	21.9	5.7	56	<.1	40.6	16.9	336	3.49	1.4	.5	2.3	1.8	70	<.1	.1	.1	68	.27	.108	5	45.6	.80	157	.125	<1	4.68	.023	.07	<.1	.04	5.1	<.1	<.05	11	<.5	15.0
19200E 8100N	.4	16.6	6.7	65	<.1	35.9	13.2	343	3.26	1.8	.4	1.2	1.3	39	.1	.1	.1	75	.25	.141	4	44.0	.56	104	.114	1	3.96	.016	.08	<.1	.01	4.3	<.1	<.05	11	<.5	15.0
19200E 8050N	.4	20.1	6.1	66	<.1	35.1	13.4	543	3.36	3.1	.6	2.3	1.1	99	.1	.2	.1	81	.55	.050	8	44.5	.81	181	.152	1	3.03	.028	.07	<.1	.02	5.1	<.1	<.05	8	<.5	15.0
19200E 8000N	.4	17.8	5.0	58	<.1	31.2	13.6	427	3.14	4.2	.6	1.4	1.5	92	<.1	.3	.1	76	.50	.053	5	40.3	.85	246	.144	1	2.39	.034	.09	<.1	.02	4.9	<.1	<.05	7	<.5	15.0
19200E 7950N	.4	40.2	4.7	53	.1	29.0	12.9	419	2.97	51.3	2.1	2.5	1.4	86	<.1	.5	.1	78	.68	.026	8	37.5	.78	458	.099	1	2.65	.033	.05	<.1	.02	6.2	.1	<.05	7	<.5	15.0
19200E 7900N	.4	13.6	5.8	67	.1	15.2	7.5	304	2.08	4.8	.3	1.0	.6	37	.1	.3	.1	54	.29	.129	3	23.4	.33	221	.123	<1	1.48	.015	.06	<.1	.02	2.0	<.1	<.05	9	<.5	15.0
19200E 7850N	.6	19.2	5.3	82	<.1	30.8	13.6	530	2.95	4.0	.3	2.3	1.0	61	.1	.7	.1	73	.35	.146	4	37.1	.67	310	.123	<1	3.19	.017	.08	<.1	.02	3.2	<.1	<.05	9	<.5	15.0
19200E 7800N	.4	13.3	3.9	72	<.1	13.3	8.3	329	2.39	6.6	.5	1.1	.9	28	.1	1.0	.1	66	.29	.112	3	19.7	.42	106	.056	<1	1.87	.012	.06	.1	.03	2.6	<.1	<.05	9	<.5	15.0
19400E 10000N	.2	15.4	3.1	48	<.1	24.8	10.2	339	2.86	<.5	.2	1.4	.8	77	<.1	<.1	.1	79	.53	.031	5	57.8	.58	49	.149	1	1.37	.076	.10	<.1	.01	5.1	<.1	<.05	4	<.5	15.0
19400E 9950N	.3	16.1	3.1	44	<.1	22.2	9.8	365	2.77	<.5	.4	1.0	1.1	90	.1	.1	.1	81	.52	.021	8	42.1	.61	60	.240	1	1.40	.059	.10	<.1	.01	6.0	<.1	<.05	4	<.5	15.0
19400E 9900N	.5	27.6	2.9	54	<.1	39.2	16.5	534	3.17	.8	.5	1.9	1.4	115	.1	.1	<.1	71	.80	.076	8	48.2	1.20	72	.158	3	1.81	.051	.13	<.1	.02	6.9	<.1	<.05	5	<.5	7.5
19400E 9850N	.3	12.8	3.6	49	<.1	29.6	9.0	282	2.40	<.5	.3	1.8	1.0	79	.1	<.1	.1	52	.35	.060	3	47.0	.48	95	.137	1	2.33	.040	.07	<.1	.01	3.3	<.1	<.05	6	<.5	15.0
19400E 9800N	.4	11.0	5.8	54	<.1	23.2	7.6	506	2.45	<.5	.2	1.1	.9	68	.1	.1	.1	59	.38	.026	3	54.8	.38	147	.154	1	1.91	.039	.09	<.1	.02	2.8	<.1	<.05	5	<.5	15.0
19400E 9750N	.7	14.0	7.0	75	<.1	24.4	8.6	804	2.62	.8	.6	1.4	1.4	53	.1	.3	.3	74	.38	.038	7	51.9	.43	170	.169	2	1.55	.035	.11	.1	.02	4.7	<.1	<.05	5	<.5	15.0
19400E 9700N	.9	13.8	6.1	54	<.1	21.1	8.3	842	2.41	.5	.9	1.0	1.7	68	.1	.3	.2	70	.41	.029	7	46.9	.35	128	.144	1	1.19	.045	.11	.1	.02	4.2	<.1	<.05	4	<.5	15.0
19400E 9600N	.5	35.2	3.9	65	<.1	52.0	17.3	548	3.59	1.7	.9	1.7	2.1	108	.1	.2	.2	80	.70	.079	13	50.8	1.41	82	.139	2	2.20	.045	.17	<.1	.02	9.7	<.1	<.05	6	<.5	15.0
19400E 9550N	.4	15.6	4.2	112	<.1	30.3	9.8	595	2.81	.8	.6	1.5	1.9	133	.1	.1	.1	56	.59	.057	6	52.4	.62	134	.148	3	2.10	.041	.15	.1	.02	4.8	<.1	<.05	5	<.5	15.0
19400E 9500N	1.0	22.4	11.8	294	<.1	39.7	12.3	2978	2.76	1.0	2.0	1.2	3.3	91	.8	.2	.4	61	.62	.101	8	45.7	.52	329	.129	3	2.91	.023	.16	.1	.04	4.4	.1	<.05	8	<.5	15.0
STANDARD DS6	11.6	123.0	29.2	142	.3	24.8	10.8	694	2.81	21.0	6.6	45.8	3.0	40	6.0	3.5	5.0	55	.85	.078	13	188.3	.57	163	.076	17	1.89	.073	.15	3.6	.23	3.2	1.8	<.05	6	4.3	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19400E 9450N	1.4	37.5	7.3	154	<.1	50.7	17.4	2039	3.30	1.5	2.9	<.5	4.3	74	.4	.3	.3	76	.73	.055	8	62.1	.80	162	.107	3	2.25	.062	.09	.1	.06	6.8	.1	<.05	7	<.5	15.0
19400E 9350N	.4	12.8	3.5	44	<.1	25.2	8.1	264	2.53	<.5	.3	.9	1.0	76	.1	.1	.1	60	.35	.035	3	58.7	.41	71	.166	2	1.67	.051	.09	<.1	.01	3.1	<.1	<.05	4	<.5	15.0
19400E 9300N	.7	17.6	3.9	68	<.1	36.4	13.1	628	2.92	.9	.8	1.0	1.2	55	.1	.1	.2	65	.71	.059	5	45.0	.99	54	.174	5	1.54	.038	.17	<.1	.02	5.5	<.1	<.05	6	<.5	7.5
19400E 9250N	1.0	17.0	6.5	107	<.1	55.4	12.9	451	2.95	1.8	1.6	<.5	2.0	50	.1	.2	.2	67	.40	.197	3	64.0	.59	113	.160	8	2.79	.045	.13	.1	.03	3.8	<.1	<.05	9	<.5	15.0
19400E 9150N	.8	10.2	6.5	30	<.1	18.7	6.9	206	1.93	.7	.7	<.5	.9	48	<.1	.1	.2	45	.39	.031	2	36.4	.31	68	.137	6	1.54	.033	.07	<.1	.02	1.9	<.1	<.05	5	<.5	15.0
RE 19400E 9150N	.8	10.4	6.5	29	<.1	18.8	6.8	204	1.89	.8	.6	1.2	.9	47	<.1	.1	.2	43	.38	.031	2	35.4	.31	68	.132	7	1.53	.031	.07	<.1	.03	2.0	<.1	<.05	5	<.5	15.0
19400E 9100N	.3	11.4	5.0	54	<.1	19.2	7.0	439	2.13	.7	.4	1.3	1.0	68	<.1	.2	.1	50	.41	.027	4	40.1	.39	71	.167	1	1.69	.043	.07	<.1	.01	3.3	<.1	<.05	5	<.5	15.0
19400E 9050N	.5	12.5	3.8	82	<.1	30.3	9.4	541	2.31	.5	.4	1.2	1.2	53	.1	.1	.1	51	.34	.082	3	42.7	.41	96	.121	2	2.25	.031	.10	<.1	.01	3.1	<.1	<.05	6	<.5	15.0
19400E 9000N	.4	23.7	3.2	59	<.1	41.2	14.7	489	3.37	.6	.6	<.5	1.8	119	<.1	.1	.1	81	.60	.063	12	69.1	.84	79	.151	2	2.11	.061	.10	<.1	.01	7.0	<.1	<.05	6	<.5	15.0
19400E 8950N	.3	13.2	3.9	71	<.1	37.0	8.7	303	2.54	.7	.5	.7	1.6	85	.1	.1	.1	52	.49	.132	5	47.0	.44	91	.149	2	2.70	.050	.15	.1	.02	4.1	<.1	<.05	7	<.5	15.0
19400E 8900N	.6	16.8	4.2	69	<.1	37.7	13.6	466	2.84	.9	.4	<.5	1.4	95	<.1	.1	.1	58	.48	.183	4	47.3	.66	102	.143	2	2.39	.049	.12	<.1	.03	4.8	<.1	<.05	6	<.5	15.0
19400E 8850N	.6	23.5	3.2	66	<.1	46.5	16.0	676	3.44	.7	1.1	<.5	1.5	99	.1	.1	.1	75	.57	.091	8	63.5	1.02	87	.155	2	2.46	.055	.11	<.1	.02	6.1	<.1	<.05	6	<.5	15.0
19400E 8800N	.4	11.2	3.4	41	<.1	22.0	8.6	279	2.34	<.5	.2	<.5	.8	87	<.1	<.1	.1	44	.35	.033	2	39.9	.43	76	.139	1	1.52	.050	.08	<.1	.02	3.3	<.1	<.05	4	<.5	7.5
19400E 8750N	.6	25.3	3.9	53	<.1	42.4	14.7	505	3.22	4.8	.7	1.5	1.5	120	.1	.3	.1	75	.68	.064	12	53.1	1.10	103	.160	3	2.16	.064	.09	<.1	.02	7.3	<.1	<.05	6	<.5	7.5
19400E 8700N	.5	28.6	3.8	68	<.1	53.7	18.5	516	4.00	2.5	.9	.7	1.7	194	.1	.1	.1	91	.76	.048	12	55.9	1.32	161	.202	2	2.77	.072	.11	<.1	.02	6.4	<.1	<.05	7	<.5	15.0
19400E 8650N	.7	19.0	5.2	78	<.1	37.8	12.7	273	2.44	1.3	.3	<.5	.7	40	.1	.1	.1	44	.29	.154	3	32.5	.58	69	.119	2	1.97	.043	.06	<.1	.01	2.3	<.1	<.05	8	<.5	15.0
19400E 8600N	.9	19.5	3.9	52	<.1	40.2	12.7	303	2.88	4.9	.3	1.4	1.1	99	.1	.2	.1	63	.49	.096	4	53.2	.68	118	.159	3	2.85	.054	.09	<.1	.02	3.7	<.1	<.05	7	<.5	15.0
19400E 8550N	1.9	17.4	4.4	80	<.1	31.9	12.2	546	2.71	6.7	.4	1.2	1.3	48	<.1	.2	.1	58	.29	.260	5	45.6	.51	105	.108	2	2.54	.027	.07	<.1	.03	3.7	<.1	<.05	8	<.5	15.0
19400E 8500N	1.3	22.5	3.1	42	<.1	32.8	12.5	437	2.98	9.6	.7	2.6	1.4	156	<.1	.3	<.1	84	.79	.069	14	57.6	.82	148	.149	2	1.85	.098	.07	<.1	.02	5.8	<.1	<.05	5	<.5	15.0
19400E 8450N	4.2	17.8	4.2	68	<.1	32.1	12.5	337	3.06	55.2	.4	7.6	1.3	50	<.1	1.5	.1	76	.30	.207	4	39.8	.48	128	.090	2	3.17	.024	.10	<.1	.03	3.7	.1	<.05	9	<.5	15.0
19400E 8400N	.9	28.5	6.7	51	<.1	36.5	12.1	421	3.06	20.8	1.6	2.4	1.6	86	.1	.5	.1	73	.59	.020	12	46.3	.79	130	.190	4	2.38	.068	.05	<.1	.03	8.1	<.1	<.05	7	<.5	15.0
19400E 8350N	.5	26.6	3.4	47	<.1	39.0	14.9	534	3.33	4.9	.9	1.4	1.8	139	<.1	.3	<.1	87	.77	.084	14	53.3	.99	130	.130	3	1.93	.082	.07	<.1	.01	7.5	<.1	<.05	5	<.5	15.0
19400E 8300N	.5	27.1	5.2	75	<.1	62.5	23.3	726	4.09	2.5	.6	<.5	1.6	67	.1	.1	.1	74	.46	.181	7	51.0	1.24	108	.193	2	4.11	.037	.10	<.1	.02	8.3	.1	<.05	10	<.5	15.0
19400E 8250N	.7	19.0	6.3	62	<.1	58.1	20.3	366	3.43	2.2	.4	<.5	1.2	67	.1	.1	.1	63	.36	.141	3	46.6	1.12	134	.233	2	4.13	.037	.10	<.1	.02	3.7	<.1	<.05	11	<.5	15.0
19400E 8200N	.7	24.6	6.7	60	<.1	46.4	17.0	561	3.39	5.4	.5	5.1	1.6	137	.1	.4	.1	79	.78	.090	9	51.9	1.09	154	.171	2	3.17	.041	.11	<.1	.05	7.1	.1	<.05	8	<.5	15.0
19400E 8150N	1.0	16.2	4.1	50	<.1	29.7	11.5	386	2.85	9.6	.5	3.6	1.0	108	<.1	.6	.1	70	.56	.034	6	42.3	.84	105	.159	1	2.07	.055	.08	<.1	.02	4.3	<.1	<.05	6	<.5	15.0
19400E 8100N	.8	23.2	4.9	74	<.1	45.4	18.0	390	3.66	11.2	.5	1.2	1.4	86	.1	.4	.1	79	.48	.188	5	51.3	.99	146	.164	2	3.67	.036	.12	<.1	.03	5.2	<.1	<.05	10	<.5	15.0
19400E 8050N	.5	19.5	5.3	77	<.1	28.5	12.0	443	2.61	7.6	.5	1.0	.9	62	.1	.3	.1	59	.36	.125	5	37.1	.55	170	.122	2	2.66	.036	.07	<.1	.02	3.6	<.1	<.05	8	<.5	15.0
19400E 8000N	1.3	26.2	3.9	50	<.1	38.9	16.7	618	3.47	24.3	.9	12.3	1.9	171	.1	.9	.1	88	.86	.089	15	54.3	1.16	138	.137	3	2.29	.075	.10	<.1	.03	8.3	.1	<.05	6	<.5	7.5
19400E 7950N	1.2	18.5	4.4	61	<.1	36.1	15.3	392	3.28	16.9	.4	3.4	1.1	87	<.1	.6	.1	76	.42	.183	5	47.1	.86	130	.106	2	3.36	.034	.12	<.1	.04	4.1	<.1	<.05	9	<.5	15.0
19400E 7900N	1.4	19.9	4.6	54	<.1	33.0	13.7	526	3.21	19.9	.7	8.5	1.4	118	.1	1.2	.1	74	.61	.034	8	46.2	.92	162	.123	1	2.22	.052	.10	<.1	.02	5.0	.1	<.05	6	<.5	15.0
19400E 7850N	1.5	27.1	4.0	55	<.1	37.7	16.1	639	3.38	32.5	1.0	13.9	1.8	151	<.1	1.2	.1	82	.92	.091	13	47.4	1.18	202	.115	4	2.32	.061	.15	<.1	.04	7.5	.1	<.05	7	<.5	7.5
19400E 7800N	.6	22.7	4.1	40	<.1	30.1	13.4	408	2.97	9.1	1.2	<.5	1.4	116	.1	.5	<.1	73	.69	.025	7	43.3	.93	285	.132	1	2.56	.049	.11	<.1	.01	4.2	.1	<.05	7	<.5	15.0
19600E 9000N	.6	10.4	5.2	119	<.1	22.9	7.9	1146	1.74	1.2	.5	<.5	1.7	75	.1	.1	.2	40	.58	.099	6	24.2	.40	136	.119	4	1.72	.034	.12	.1	.02	2.8	.1	<.05	5	<.5	15.0
STANDARD DS6	11.8	122.7	28.8	144	.3	25.2	10.8	703	2.84	21.3	6.6	46.0	3.7	42	6.0	3.6	5.0	57	.85	.078	15	191.0	.58	168	.080	17	1.93	.074	.17	3.2	.23	3.3	1.8	<.05	6	4.5	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19600E 8950N	.4	16.6	3.8	52	<.1	36.2	12.8	368	3.37	<.5	.4	.5	1.5	111	<.1	.1	.1	84	.47	.053	5	77.1	.58	98	.184	2	2.27	.057	.10	<.1	<.01	5.5	<.1	<.05	5	<.5	15.0
19600E 8900N	.5	17.0	2.9	60	<.1	39.1	12.7	506	3.08	<.5	.4	<.5	1.1	105	<.1	.1	.1	74	.58	.040	10	76.0	.67	76	.156	2	1.80	.068	.13	<.1	.02	5.9	<.1	<.05	4	<.5	15.0
19600E 8850N	.4	19.9	2.7	49	<.1	44.6	14.2	417	3.57	<.5	.5	1.9	1.6	107	<.1	.1	.1	78	.58	.038	11	77.4	.83	68	.159	1	2.20	.064	.13	<.1	<.01	8.2	<.1	<.05	5	<.5	15.0
19600E 8800N	.5	23.3	3.6	66	<.1	46.4	15.8	797	3.20	<.5	.4	1.1	1.4	116	.1	.1	.1	68	.78	.071	11	57.8	.98	74	.132	2	2.02	.063	.12	<.1	.04	6.9	<.1	<.05	5	<.5	7.5
19600E 8750N	.5	26.3	3.1	51	<.1	41.8	16.9	575	3.27	5.6	1.8	2.4	1.4	113	.1	.4	.1	87	.83	.089	11	43.7	1.23	173	.125	3	2.07	.097	.08	.1	.02	5.9	<.1	<.05	6	<.5	15.0
19600E 8700N	.4	23.4	4.6	102	<.1	42.9	17.2	400	3.19	.7	.6	.7	.9	64	.1	.1	.1	57	.42	.200	4	47.3	.79	113	.156	1	2.97	.042	.08	<.1	.02	4.6	<.1	<.05	9	<.5	15.0
19600E 8650N	.4	24.6	3.5	47	<.1	40.3	14.3	443	3.37	.7	6.0	1.1	1.6	143	.1	.1	.1	78	.80	.032	10	55.3	.96	176	.174	2	2.29	.090	.07	<.1	.01	7.2	<.1	<.05	6	<.5	15.0
19600E 8600N	.4	18.1	4.9	71	<.1	37.5	12.3	227	2.60	3.0	1.1	4.2	1.0	68	.1	.1	.1	53	.41	.187	4	38.7	.59	261	.133	1	3.00	.038	.09	<.1	.02	4.1	<.1	<.05	8	<.5	15.0
19600E 8550N	.5	20.5	4.0	48	<.1	32.1	13.2	389	3.03	3.1	.5	<.5	1.1	110	.1	.3	.1	75	.49	.047	5	50.4	.64	125	.162	1	2.43	.048	.07	<.1	.01	4.2	<.1	<.05	6	<.5	15.0
19600E 8500N	.4	9.0	3.9	36	<.1	15.5	6.2	138	1.53	4.3	.4	5.0	1.1	32	<.1	.2	.1	40	.17	.129	5	22.7	.25	62	.091	1	1.69	.030	.05	<.1	.01	3.5	<.1	<.05	5	<.5	15.0
19600E 8450N	.8	22.2	3.1	41	<.1	32.7	13.0	366	3.17	6.6	.4	3.5	1.3	133	.1	.5	<.1	90	.55	.048	8	59.3	.83	124	.134	1	2.17	.063	.07	<.1	.02	5.3	<.1	<.05	5	<.5	15.0
19600E 8400N	.6	22.0	3.4	50	<.1	41.0	16.1	442	3.24	6.8	.7	3.3	1.2	105	.1	.3	<.1	85	.76	.085	9	52.3	1.20	117	.126	2	1.94	.053	.07	<.1	.02	5.6	<.1	<.05	5	<.5	7.5
19600E 8350N	.7	21.9	3.5	51	<.1	33.6	13.2	316	3.03	10.4	.4	7.3	1.0	113	<.1	.6	<.1	81	.53	.115	7	52.1	.79	115	.119	2	2.35	.050	.07	<.1	.01	4.3	<.1	<.05	6	<.5	15.0
19600E 8300N	.8	23.2	4.6	71	<.1	31.8	15.6	848	3.15	3.8	.4	1.7	1.0	80	.1	.2	.1	73	.42	.103	7	53.3	.60	149	.155	2	2.53	.044	.08	<.1	.03	4.2	<.1	<.05	8	<.5	15.0
19600E 8250N	.6	28.2	3.2	54	<.1	42.8	16.9	712	3.36	4.7	.5	4.2	1.5	145	.1	.3	.1	88	1.28	.107	12	55.7	1.19	100	.148	4	1.99	.145	.09	<.1	.01	5.6	<.1	<.05	5	<.5	15.0
19600E 8200N	.9	20.7	3.4	44	<.1	29.2	12.3	364	3.11	9.3	.4	3.4	1.2	140	<.1	.6	<.1	93	.51	.038	7	51.6	.76	130	.152	1	2.24	.060	.06	<.1	.01	4.5	<.1	<.05	6	<.5	15.0
19600E 8150N	1.0	19.2	4.4	56	<.1	31.2	14.0	314	3.17	19.8	.4	3.9	.7	64	.1	.6	.1	76	.31	.146	3	45.5	.66	218	.114	1	3.11	.033	.05	<.1	.03	3.2	<.1	<.05	8	<.5	15.0
19600E 8100N	.9	17.4	5.9	72	<.1	19.4	8.1	176	2.20	8.9	.3	3.3	.7	64	<.1	.5	.1	45	.36	.146	4	29.6	.44	132	.081	2	2.22	.022	.07	<.1	.04	2.9	<.1	<.05	8	<.5	15.0
19600E 8050N	.5	20.9	4.0	42	<.1	45.1	17.3	398	3.27	6.9	1.4	2.0	1.3	121	<.1	.3	.1	114	.71	.055	10	64.7	1.31	110	.179	2	2.82	.058	.07	<.1	.02	9.3	<.1	<.05	7	<.5	15.0
19600E 8000N	1.4	22.7	4.4	60	<.1	33.0	13.4	375	3.09	18.9	.4	2.7	1.0	66	.1	.7	.1	82	.33	.164	5	48.4	.61	167	.107	2	3.34	.026	.08	<.1	.04	3.6	<.1	<.05	8	<.5	15.0
19600E 7950N	.5	24.6	4.7	54	<.1	46.7	18.0	700	3.46	7.4	.9	3.8	1.2	95	.1	.2	.1	99	.82	.054	9	51.0	1.41	94	.161	2	2.80	.056	.07	<.1	.03	7.5	<.1	<.05	7	<.5	15.0
19600E 7900N	.6	32.2	3.5	51	<.1	48.9	18.5	565	3.52	8.1	.6	3.1	1.5	147	.1	.4	.1	99	.67	.066	8	60.0	1.26	140	.138	1	2.81	.059	.07	<.1	.02	7.7	.1	<.05	7	<.5	15.0
19600E 7850N	.6	25.5	3.8	52	<.1	47.2	19.0	285	3.57	5.7	.4	1.0	1.1	111	.1	.1	.1	73	.39	.096	4	33.6	.94	137	.112	1	4.41	.048	.06	<.1	.04	4.4	<.1	<.05	11	<.5	15.0
19600E 7800N	.9	18.5	5.2	48	.1	43.3	15.7	273	3.38	13.5	.5	3.0	1.1	50	.1	.4	.1	78	.31	.128	4	39.8	.76	93	.120	1	3.77	.033	.05	<.1	.03	4.0	<.1	<.05	10	<.5	15.0
19800E 8750N	.4	25.1	2.4	50	<.1	52.3	17.7	468	3.53	.7	.7	<.5	1.8	137	.1	.1	.1	72	.76	.046	17	63.5	1.19	83	.162	3	2.11	.082	.16	<.1	.03	8.7	<.1	<.05	6	<.5	15.0
19800E 8700N	.4	33.6	2.8	56	<.1	58.5	21.1	747	3.72	1.7	1.1	1.3	1.8	174	.1	.1	.1	92	1.31	.103	14	53.7	1.75	111	.159	4	2.28	.154	.13	<.1	.01	7.5	<.1	<.05	6	<.5	15.0
19800E 8650N	.7	27.1	4.6	55	<.1	47.6	18.6	538	3.66	1.3	13.2	1.1	1.9	172	.1	.1	.1	83	.81	.034	9	49.9	1.15	246	.165	4	2.37	.080	.11	<.1	.03	7.2	<.1	<.05	6	<.5	15.0
RE 19800E 8600N	.4	10.7	6.0	71	<.1	19.7	7.6	246	1.70	1.8	.3	.9	.8	52	.1	.1	.1	38	.32	.202	3	26.6	.30	143	.121	3	1.84	.039	.09	<.1	.02	2.2	<.1	<.05	9	<.5	15.0
19800E 8600N	.3	10.2	6.4	70	<.1	19.4	7.3	235	1.64	1.6	.3	.6	.8	50	.1	.1	.1	34	.31	.198	3	25.2	.30	138	.102	2	1.79	.031	.09	<.1	.02	2.1	<.1	<.05	8	<.5	15.0
19800E 8550N	.5	24.7	5.3	74	<.1	29.7	13.6	426	2.83	7.0	.5	1.5	.9	47	.1	.6	.1	65	.32	.104	4	33.1	.81	239	.118	3	3.20	.019	.07	<.1	.04	3.5	.1	<.05	11	<.5	15.0
19800E 8500N	.4	16.2	5.8	110	<.1	33.5	14.9	732	3.34	3.4	.3	1.0	.9	28	.1	.3	.1	78	.25	.137	3	38.5	.74	138	.167	2	3.33	.015	.07	<.1	.03	3.5	<.1	<.05	12	<.5	15.0
19800E 8450N	.5	26.8	4.9	66	<.1	42.4	14.9	487	3.50	5.1	.6	4.3	1.5	103	.1	.3	.1	87	.51	.094	8	51.8	.92	182	.154	1	3.19	.034	.08	<.1	.02	6.2	<.1	<.05	9	<.5	15.0
19800E 8400N	.6	20.3	5.1	64	<.1	41.4	15.5	315	3.49	3.3	.4	1.7	1.3	60	.1	.3	.1	77	.26	.150	4	47.5	.66	193	.137	1	3.73	.016	.07	<.1	.02	3.5	<.1	<.05	10	<.5	15.0
19800E 8350N	.5	11.4	6.4	75	<.1	28.4	11.2	333	2.52	1.6	.2	.5	.8	34	<.1	.1	.1	59	.29	.139	3	43.1	.37	96	.140	2	2.44	.025	.09	<.1	.02	2.5	<.1	<.05	8	<.5	15.0
STANDARD DS6	11.7	122.1	28.9	143	.3	24.9	10.7	702	2.84	21.2	6.6	46.5	3.1	41	6.0	3.5	5.0	57	.85	.078	15	190.5	.58	166	.082	18	1.93	.073	.16	3.4	.23	3.3	1.8	<.05	7	4.4	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
19800E 8300N	.7	14.7	5.5	79	<.1	31.5	11.0	362	2.72	2.2	.3	1.3	1.1	41	.1	.3	.2	60	.25	.104	4	37.6	.47	129	.103	1	2.86	.017	.07	<.1	.02	2.7	<.1	<.05	9	<.5	15.0
19800E 8250N	.5	19.0	4.3	52	<.1	29.7	11.9	487	2.97	6.0	1.1	4.3	1.2	101	<.1	.5	.1	64	.63	.025	14	48.6	.79	140	.147	2	2.35	.049	.06	<.1	.03	7.5	<.1	<.05	6	<.5	7.5
19800E 8200N	.4	31.7	4.3	55	.1	49.6	16.9	496	3.51	2.4	.7	<.5	1.2	105	.1	.1	.1	91	.76	.057	10	58.1	1.34	91	.115	3	3.13	.042	.08	<.1	.05	8.4	<.1	<.05	8	<.5	15.0
19800E 8150N	.5	14.6	5.5	66	<.1	38.7	13.1	422	2.68	2.2	.4	<.5	1.1	36	.1	.1	.1	49	.26	.174	3	35.9	.60	85	.094	1	3.86	.020	.08	<.1	.04	3.2	<.1	<.05	10	<.5	15.0
19800E 8100N	.4	21.9	4.0	53	<.1	41.9	18.0	388	3.72	1.3	.4	<.5	1.3	109	<.1	.1	.1	77	.44	.071	4	61.1	1.32	196	.126	<1	4.44	.036	.06	<.1	.02	5.1	<.1	<.05	10	<.5	15.0
19800E 8050N	.3	20.7	4.8	61	<.1	47.2	19.1	279	4.03	2.6	.5	<.5	1.4	84	.1	.1	.1	71	.57	.156	3	63.1	1.06	201	.101	2	4.67	.028	.08	<.1	.02	6.2	<.1	<.05	11	<.5	15.0
19800E 8000N	.6	18.8	5.2	68	<.1	33.0	12.9	246	3.09	4.6	.5	1.5	1.2	69	.1	.2	.1	65	.43	.136	5	44.0	.63	144	.081	1	3.44	.022	.08	<.1	.03	4.5	<.1	<.05	9	<.5	15.0
19800E 7950N	.3	21.0	4.5	64	<.1	26.4	11.1	292	2.69	3.8	.6	1.6	.7	73	.1	.1	.1	63	.68	.048	11	33.3	.68	74	.078	1	2.30	.029	.05	<.1	.02	5.1	<.1	<.05	6	<.5	15.0
19800E 7900N	.4	16.9	5.0	54	<.1	29.1	11.7	269	3.03	2.9	.3	.5	1.0	49	.1	.1	.1	63	.21	.083	4	37.9	.59	113	.097	<1	3.49	.023	.04	<.1	.02	3.9	<.1	<.05	10	<.5	15.0
19800E 7850N	.4	20.1	5.2	55	<.1	36.1	15.2	267	3.55	3.0	.5	.6	1.0	89	.1	.1	.1	69	.50	.123	4	45.2	.71	157	.083	1	4.00	.018	.07	<.1	.04	5.0	<.1	<.05	10	<.5	15.0
19800E 7800N	.5	17.7	6.5	66	<.1	31.4	12.5	382	2.89	3.7	.4	.7	.9	58	.1	.2	.1	64	.30	.105	4	38.8	.68	102	.117	1	2.98	.026	.07	<.1	.03	3.4	<.1	<.05	9	<.5	15.0
20000E 9000N	.8	12.3	5.8	171	<.1	34.8	10.6	1456	2.34	.9	.4	<.5	1.3	44	.2	.1	.2	54	.31	.110	3	61.8	.48	149	.110	2	2.23	.025	.08	<.1	.03	2.5	<.1	<.05	7	<.5	15.0
20000E 8950N	.7	11.2	4.0	83	<.1	37.4	10.8	772	2.67	<.5	.2	<.5	.7	39	<.1	.1	.1	69	.26	.041	2	96.4	.48	86	.148	1	2.31	.029	.08	<.1	.01	2.5	<.1	<.05	6	<.5	15.0
20000E 8900N	.7	16.8	2.9	46	<.1	42.9	14.1	518	3.12	<.5	.2	<.5	1.0	80	<.1	.1	.1	80	.49	.033	5	85.1	.87	67	.154	2	1.69	.059	.12	<.1	.01	4.6	<.1	<.05	5	<.5	15.0
20000E 8850N	.5	9.8	4.0	65	<.1	32.0	9.0	431	2.23	.5	.2	<.5	.8	36	.1	.1	.1	50	.26	.053	2	62.8	.40	81	.129	1	2.23	.026	.10	<.1	.01	2.5	<.1	<.05	6	<.5	15.0
20000E 8800N	.4	26.0	2.6	56	<.1	55.3	17.9	526	3.73	.6	.5	<.5	1.6	97	<.1	.1	<.1	85	.59	.057	10	67.2	1.28	69	.147	3	1.90	.065	.17	<.1	.01	7.0	<.1	<.05	5	<.5	15.0
20000E 8750N	.4	27.5	3.2	65	<.1	58.3	19.2	541	3.83	.9	.5	<.5	1.5	93	.1	.1	.1	85	.66	.081	9	61.3	1.57	60	.170	2	2.09	.071	.12	<.1	.01	7.5	<.1	<.05	6	<.5	15.0
20000E 8700N	.5	31.3	3.3	58	<.1	61.7	19.0	510	3.96	1.0	.5	.7	1.6	95	.1	.1	.2	90	.64	.072	10	77.4	1.53	57	.139	2	2.25	.061	.12	<.1	.02	8.6	<.1	<.05	6	<.5	15.0
20000E 8650N	.4	25.7	3.0	55	<.1	47.7	17.3	511	3.39	1.1	1.0	<.5	1.5	117	.1	.1	.1	84	.82	.099	9	53.5	1.38	84	.137	3	1.91	.095	.10	<.1	.03	5.8	<.1	<.05	6	<.5	15.0
RE 20000E 8650N	.4	26.0	2.9	53	<.1	47.5	17.4	500	3.30	1.1	1.0	<.5	1.4	116	.1	.1	.1	81	.80	.098	9	52.7	1.38	85	.134	3	1.89	.092	.10	<.1	.02	5.7	<.1	<.05	5	<.5	15.0
20000E 8600N	.4	14.8	4.6	40	<.1	32.5	12.4	289	2.52	3.8	1.1	1.3	.7	54	.1	.1	.1	57	.32	.035	3	44.6	.65	227	.139	3	2.66	.042	.08	<.1	.01	2.7	<.1	<.05	7	<.5	15.0
20000E 8550N	.5	23.4	3.9	82	<.1	44.6	17.9	487	3.34	5.4	.4	<.5	1.0	55	.1	.4	.1	77	.42	.146	4	44.3	1.02	169	.169	4	3.70	.024	.14	.1	.04	4.0	<.1	<.05	11	<.5	15.0
20000E 8500N	.6	28.1	4.4	72	<.1	49.0	16.8	331	3.38	4.7	.5	3.9	1.2	42	.1	.2	.1	76	.27	.098	5	53.9	.88	172	.160	2	4.03	.021	.07	<.1	.04	3.9	<.1	<.05	12	<.5	15.0
20000E 8450N	.6	23.3	4.7	60	<.1	43.9	15.0	415	3.11	3.6	.3	1.6	1.1	45	.1	.2	.1	71	.24	.077	3	49.0	.82	205	.132	2	3.84	.020	.07	<.1	.03	3.0	.1	<.05	10	<.5	15.0
20000E 8400N	.7	22.4	5.5	92	.1	30.6	15.1	551	3.61	9.7	.5	6.5	1.4	105	.1	.5	.1	87	.31	.124	4	37.6	.86	255	.180	3	3.51	.013	.08	.1	.06	4.2	.1	<.05	12	<.5	15.0
20000E 8350N	.8	10.5	5.4	104	.1	20.0	15.0	961	3.30	24.7	.3	3.7	1.0	17	.1	2.3	.1	81	.25	.128	3	23.8	.77	66	.140	3	2.35	.009	.06	.1	.03	4.6	.1	<.05	12	<.5	15.0
20000E 8300N	.8	19.4	7.3	137	.1	35.0	14.4	1812	3.23	15.0	.7	1.9	1.5	34	.1	.5	.2	72	.31	.113	6	32.7	.76	181	.155	2	3.67	.012	.07	.1	.03	4.2	.2	<.05	13	<.5	15.0
20000E 8250N	1.0	31.0	6.0	84	.1	37.8	17.7	550	4.05	20.3	.8	8.2	2.1	25	.1	.9	.1	92	.21	.117	8	43.3	1.09	231	.126	2	4.36	.011	.08	.1	.04	5.0	.1	<.05	13	<.5	15.0
20000E 8200N	.7	17.6	5.2	85	<.1	29.7	16.3	855	3.59	9.7	.4	29.1	1.2	42	.1	1.0	.8	84	.39	.070	5	38.9	.94	191	.095	2	2.77	.010	.08	<.1	.04	3.4	.1	<.05	10	<.5	15.0
20000E 8150N	.6	18.2	4.1	62	<.1	34.3	14.8	487	3.26	8.7	.4	21.2	1.0	74	.1	.8	.1	78	.43	.094	5	42.8	.85	112	.116	2	2.49	.020	.12	<.1	.03	3.7	.1	<.05	7	<.5	15.0
20000E 8100N	.4	14.0	4.2	68	<.1	45.0	19.4	537	2.75	1.6	.3	.5	.9	48	.1	.1	.1	55	.25	.066	3	35.3	1.20	79	.138	2	3.18	.024	.04	<.1	.02	3.2	<.1	<.05	10	<.5	15.0
20000E 8050N	.5	28.2	4.0	57	<.1	46.2	17.9	562	4.07	2.1	.5	.6	1.7	151	.1	.2	.1	101	.57	.050	10	67.0	1.26	145	.173	1	3.29	.028	.10	<.1	.02	7.4	<.1	<.05	8	<.5	15.0
20000E 8000N	.6	12.7	6.7	64	<.1	36.1	13.8	285	3.04	1.6	.3	1.0	1.0	27	.1	.1	.1	61	.18	.184	3	39.1	.60	101	.187	1	3.65	.019	.06	<.1	.03	2.8	<.1	<.05	11	<.5	15.0
20000E 7950N	.5	17.6	5.2	66	<.1	38.5	19.0	462	3.69	1.1	.3	<.5	.8	48	<.1	.1	.1	79	.36	.060	3	61.7	.97	114	.062	<1	3.53	.015	.04	<.1	.02	5.3	<.1	<.05	10	<.5	15.0
STANDARD DS6	11.8	121.6	28.8	143	.3	24.8	10.7	696	2.81	21.1	6.6	46.2	3.1	41	5.9	3.6	4.9	57	.85	.078	14	190.4	.58	166	.083	17	1.94	.074	.16	3.4	.23	3.3	1.8	<.05	6	4.5	15.0

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
20000E 7900N	1.6	18.8	5.8	63	.1	44.4	14.5	286	3.47	4.7	.5	.8	1.1	51	.1	.2	.2	76	.33	.048	3	44.7	.72	216	.098	1	3.88	.015	.10	<.1	.04	4.9	<.1	<.05	10	<.5	15
20000E 7850N	.5	24.1	4.5	53	<.1	41.7	16.7	359	3.88	5.0	.5	.9	1.4	114	.1	.2	.1	94	.56	.045	4	58.1	1.05	223	.142	1	3.52	.029	.07	<.1	.02	5.7	<.1	<.05	8	<.5	15
20000E 7800N	.4	26.4	3.3	56	<.1	39.7	17.9	859	3.48	4.2	.5	3.1	1.8	170	.2	.3	.1	85	1.11	.087	12	42.6	1.29	111	.108	5	2.04	.109	.06	<.1	.01	7.9	<.1	<.05	5	<.5	15
20200E 9000N	.5	11.3	4.9	55	<.1	24.8	8.2	256	2.75	.8	.3	<.5	1.0	57	<.1	.1	.2	68	.32	.038	3	56.0	.40	93	.165	1	1.94	.034	.06	<.1	.01	3.2	<.1	<.05	5	<.5	15
20200E 8950N	.7	18.9	4.6	64	<.1	40.7	14.1	424	3.70	1.0	.4	.8	1.1	78	<.1	.1	.1	90	.38	.069	4	74.6	.78	87	.161	2	2.40	.025	.13	<.1	.02	4.2	<.1	<.05	6	<.5	15
20200E 8900N	1.0	17.1	4.1	60	<.1	40.1	13.9	452	2.82	1.9	.7	.7	1.0	74	.1	.1	.1	56	.51	.258	5	51.7	.70	205	.119	4	2.53	.025	.15	.1	.03	4.1	<.1	<.05	7	<.5	15
20200E 8850N	.7	16.8	3.5	80	<.1	48.5	15.5	383	2.98	1.2	.3	1.0	.9	47	.1	.1	.1	63	.34	.186	4	71.0	.75	91	.123	2	2.78	.024	.10	<.1	.02	3.4	<.1	<.05	8	<.5	15
20200E 8800N	.5	22.6	3.5	58	<.1	41.9	13.9	431	3.02	1.0	.3	<.5	1.3	101	.1	.1	.1	76	.59	.091	5	46.9	.98	93	.138	1	2.48	.047	.12	<.1	.02	5.4	<.1	<.05	6	<.5	15
20200E 8750N	.5	24.3	3.4	49	<.1	43.2	14.3	370	3.28	.9	.4	1.1	1.6	124	.1	.1	<.1	84	.64	.065	5	42.3	1.00	110	.159	2	2.35	.061	.11	<.1	.01	6.8	<.1	<.05	6	<.5	15
20200E 8700N	.5	24.7	3.8	55	<.1	44.8	14.7	450	3.14	1.4	.4	1.2	1.3	105	.1	.1	.1	81	.51	.122	8	47.9	1.00	101	.138	2	3.37	.039	.11	<.1	.03	6.1	<.1	<.05	8	<.5	15
20200E 8650N	.6	28.5	4.2	62	<.1	48.2	16.8	514	3.37	1.9	.7	2.0	1.5	108	<.1	.1	.1	83	.60	.143	9	48.1	1.10	121	.150	2	3.08	.050	.09	<.1	.02	6.5	<.1	<.05	8	<.5	15
20200E 8600N	.6	31.5	3.5	53	<.1	48.2	18.0	648	3.38	2.9	2.1	.6	1.6	116	.1	.2	.2	87	.84	.077	12	50.2	1.22	101	.148	3	2.02	.079	.11	<.1	.02	7.6	<.1	<.05	5	<.5	15
RE 20200E 8600N	.6	29.7	3.6	53	<.1	47.9	17.6	641	3.29	2.8	2.1	1.1	1.7	112	.1	.2	.2	84	.78	.075	11	47.6	1.21	98	.135	3	1.94	.075	.10	<.1	.01	7.5	<.1	<.05	5	<.5	15
20200E 8550N	.3	21.8	4.4	66	<.1	38.4	14.2	379	3.28	.8	.4	1.4	1.3	74	.1	.1	.1	67	.50	.068	5	38.6	.89	101	.188	2	2.63	.043	.11	.1	.01	5.4	<.1	<.05	7	<.5	15
20200E 8500N	.5	30.3	4.0	57	<.1	47.3	17.0	545	3.41	4.2	1.0	1.2	1.7	123	.1	.4	.1	80	.93	.100	14	41.1	1.41	97	.134	3	2.37	.064	.15	<.1	.03	7.8	<.1	<.05	6	<.5	15
20200E 8450N	.4	23.3	5.0	61	.1	46.5	15.8	486	3.13	2.1	.6	.5	1.0	97	.1	.1	.1	71	.64	.115	7	49.0	.94	227	.158	2	3.52	.038	.09	<.1	.03	4.5	<.1	<.05	9	<.5	15
20200E 8400N	.4	22.5	3.4	54	<.1	44.5	13.8	341	3.05	1.9	.4	2.5	1.1	99	.1	.1	.1	78	.42	.140	4	53.2	.90	168	.152	1	3.34	.039	.07	<.1	.03	3.9	<.1	<.05	8	<.5	15
20200E 8350N	.3	14.9	5.2	110	.1	25.7	11.0	725	2.52	2.1	.2	<.5	.8	45	.1	.2	.1	56	.30	.204	3	35.7	.52	157	.169	2	2.33	.021	.09	<.1	.02	3.0	<.1	<.05	9	<.5	15
20200E 8300N	.3	9.6	3.6	109	<.1	16.3	13.2	453	2.73	7.8	.3	1.7	1.0	27	.1	.9	.1	67	.33	.153	3	22.6	.78	182	.120	2	1.93	.013	.06	.1	.02	3.6	<.1	<.05	9	<.5	15
20200E 8250N	.5	20.1	4.9	120	<.1	24.2	17.4	685	3.24	7.1	.4	1.3	1.2	42	.1	.8	.1	79	.58	.170	3	25.4	1.01	288	.191	3	2.79	.014	.16	<.1	.02	4.4	.1	<.05	12	<.5	15
20200E 8200N	.4	18.5	7.5	173	<.1	20.4	14.3	1603	2.88	4.7	.3	2.1	.9	68	.1	.6	.1	66	.93	.170	4	22.2	.86	511	.123	4	2.36	.015	.17	.1	.08	3.4	.1	<.05	10	<.5	15
20200E 8150N	.7	13.4	5.3	118	<.1	17.6	11.1	1028	2.46	11.9	.4	2.6	1.0	39	.2	1.0	.1	58	.45	.121	4	22.7	.65	220	.072	2	1.74	.013	.12	.1	.04	2.9	.1	<.05	8	<.5	15
20200E 8100N	.8	8.0	6.5	63	.2	10.5	6.3	264	2.03	12.9	.3	1.8	.8	25	.1	.8	.1	46	.24	.135	4	16.2	.27	148	.063	2	1.76	.014	.06	.1	.03	1.9	<.1	<.05	9	<.5	15
20200E 8050N	.9	12.9	6.0	152	.5	16.0	13.1	1118	3.08	17.2	.5	1.0	1.5	39	.2	1.5	.1	73	.46	.201	6	19.6	.51	233	.051	3	2.10	.011	.07	.1	.04	3.3	.1	<.05	11	<.5	15
20200E 8000N	1.0	23.7	4.2	73	<.1	41.3	17.4	468	4.03	10.2	.5	3.7	1.3	78	.1	1.0	.1	90	.35	.100	5	48.9	1.15	229	.090	2	3.64	.020	.08	<.1	.02	4.4	.1	<.05	9	<.5	15
20200E 7950N	1.7	16.4	8.1	152	.2	31.0	13.3	702	3.24	5.8	.4	2.2	1.1	35	.2	.5	.2	73	.22	.121	4	41.5	.59	148	.129	2	3.24	.018	.06	<.1	.05	3.3	<.1	<.05	10	<.5	15
20200E 7900N	.8	12.7	7.9	158	.2	27.0	11.4	792	2.72	3.8	.3	.7	.9	42	.2	.2	.2	65	.38	.128	3	35.8	.48	132	.142	2	2.66	.018	.09	<.1	.03	2.6	.1	<.05	10	<.5	15
20200E 7850N	.6	10.9	9.7	126	.1	25.4	10.5	398	2.44	2.6	.4	5.1	1.2	42	.2	.3	.2	47	.31	.116	3	30.9	.47	140	.128	2	2.88	.021	.07	<.1	.03	2.7	.1	<.05	9	<.5	15
20200E 7800N	.8	18.8	6.2	83	<.1	28.4	16.6	904	4.56	4.0	.5	.6	1.6	76	.1	.1	.1	88	.74	.097	6	47.5	.59	94	.020	4	3.46	.013	.12	<.1	.03	7.4	<.1	<.05	9	<.5	15
20400E 9000N	.4	23.0	4.4	63	<.1	43.7	18.5	512	4.15	.9	.4	<.5	1.0	148	.1	.1	.1	88	.77	.049	7	54.5	1.65	58	.231	2	2.72	.050	.06	<.1	.01	8.7	<.1	<.05	8	<.5	15
20400E 8950N	.5	22.6	3.4	65	<.1	37.1	13.7	440	3.26	.7	.4	1.0	1.4	116	.1	.1	.1	80	.54	.092	6	44.4	.93	137	.179	2	2.50	.052	.15	<.1	.01	6.1	<.1	<.05	6	<.5	15
20400E 8900N	1.5	7.6	7.8	113	<.1	21.9	16.7	1351	3.24	13.1	.5	2.4	1.9	36	.1	.9	.1	83	.43	.065	9	36.2	.88	209	.042	4	1.86	.015	.23	.1	.03	2.9	.1	<.05	9	<.5	15
20400E 8850N	1.3	11.1	4.8	82	<.1	24.0	15.1	1191	3.05	4.1	.4	.8	1.6	54	.1	.5	.1	80	.47	.056	6	46.3	.79	189	.129	4	1.75	.031	.27	<.1	.03	3.4	.1	<.05	7	<.5	15
20400E 8800N	.6	18.1	5.5	91	<.1	43.8	14.3	957	3.07	1.4	.4	<.5	1.2	88	.1	.1	.1	66	.53	.149	4	53.7	.77	129	.133	2	2.76	.031	.14	<.1	.02	3.9	<.1	<.05	7	<.5	15
STANDARD DS6	11.5	122.4	28.9	141	.3	24.9	10.8	693	2.81	20.9	6.6	46.9	3.0	40	5.9	3.6	4.9	56	.85	.078	13	188.1	.57	163	.079	16	1.89	.073	.15	3.5	.23	3.3	1.7	<.05	6	4.4	15

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

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
20400E 8750N	.5	17.6	5.1	91	<.1	41.9	12.6	545	2.58	1.1	.3	4.5	.9	43	.1	.1	.1	56	.30	.229	3	50.3	.51	97	.110	2	2.88	.032	.10	<.1	.01	3.3	<.1	<.05	8	<.5	15.0
20400E 8700N	.5	25.6	4.3	52	<.1	41.8	15.1	589	3.06	3.5	1.4	.7	1.3	102	.1	.1	.1	72	.82	.059	8	55.0	1.05	91	.141	5	2.57	.088	.15	<.1	.02	7.7	<.1	<.05	7	<.5	15.0
20400E 8650N	.3	17.3	4.9	50	<.1	35.2	10.5	188	2.41	1.8	.5	1.1	1.1	65	.1	.1	.1	52	.42	.127	4	33.4	.52	100	.144	2	2.87	.061	.07	<.1	.02	3.5	<.1	<.05	8	<.5	15.0
20400E 8600N	.3	29.6	3.7	51	<.1	50.2	17.0	518	3.41	2.1	.8	.6	1.5	110	.1	.1	.1	75	.69	.083	9	44.0	1.21	77	.132	2	2.67	.082	.11	.1	.02	7.2	<.1	<.05	7	<.5	15.0
20400E 8550N	.6	23.1	4.3	68	<.1	37.4	15.1	341	3.19	3.2	.4	.6	1.1	65	.1	.1	.1	68	.48	.274	3	38.0	.77	98	.126	3	3.44	.057	.12	<.1	.03	3.9	<.1	<.05	9	<.5	15.0
20400E 8500N	.8	27.5	3.7	55	<.1	41.0	16.3	700	3.06	6.3	7.6	.6	1.5	132	.1	.2	.1	83	.89	.091	10	43.9	1.14	100	.142	3	2.10	.116	.11	<.1	.01	6.3	<.1	<.05	5	<.5	15.0
20400E 8450N	1.2	22.1	3.8	45	<.1	32.8	13.2	717	2.48	16.1	13.0	<.5	1.1	109	.1	.4	.1	63	.88	.057	8	41.1	.84	92	.114	5	2.01	.098	.09	.1	.03	5.4	<.1	<.05	6	<.5	15.0
20400E 8400N	.3	21.6	3.8	46	<.1	41.4	13.4	371	2.95	1.9	.8	.8	1.1	100	.1	.1	.1	75	.66	.061	6	56.9	.95	104	.157	3	2.39	.081	.10	<.1	.01	4.6	<.1	<.05	6	<.5	15.0
20400E 8350N	.5	39.6	3.2	49	<.1	47.6	17.8	660	3.29	2.5	1.1	1.0	1.3	115	.1	.2	.1	75	.93	.088	11	43.7	1.26	88	.114	2	1.96	.120	.07	<.1	.01	5.7	<.1	<.05	5	<.5	15.0
20400E 8300N	.5	68.2	2.9	52	<.1	65.8	23.9	666	3.83	1.8	.8	1.4	1.2	95	<.1	.2	.1	62	.94	.088	9	25.0	1.51	66	.097	2	2.35	.142	.08	<.1	.01	4.9	<.1	<.05	6	<.5	15.0
20400E 8250N	.4	91.3	2.5	55	<.1	84.3	29.2	617	4.51	4.7	.8	.5	.8	80	.1	.1	.1	63	1.09	.092	7	20.6	1.90	52	.083	2	2.73	.131	.05	<.1	.01	4.0	<.1	<.05	6	<.5	15.0
20400E 8200N	.4	88.7	3.1	58	<.1	75.2	26.7	635	4.44	1.9	.7	1.3	1.2	94	.1	.1	.1	64	.88	.096	9	26.2	1.74	70	.104	1	2.86	.115	.09	.1	.01	5.9	<.1	<.05	7	<.5	15.0
20400E 8150N	.7	90.5	2.9	81	<.1	94.7	34.6	702	4.79	3.3	.5	<.5	.8	52	.1	.1	.1	43	.66	.143	6	13.3	1.68	55	.069	1	3.41	.092	.09	.1	.02	2.9	<.1	<.05	8	<.5	15.0
20400E 8100N	.4	82.6	3.2	56	<.1	77.0	29.2	740	4.18	2.7	1.1	1.1	.9	84	.1	.2	.1	57	.96	.092	8	18.0	1.69	51	.068	1	2.20	.140	.06	<.1	.01	3.6	<.1	<.05	6	<.5	15.0
20400E 8050N	.4	100.6	3.7	65	.1	84.5	30.0	864	4.65	2.3	1.4	1.0	1.0	84	.1	.1	.1	54	.88	.079	10	19.2	1.75	59	.087	1	2.60	.110	.08	<.1	.01	4.6	<.1	<.05	7	<.5	15.0
20400E 8000N	.4	27.7	4.3	54	.1	38.0	16.7	441	3.79	2.3	.8	<.5	1.0	104	.1	.2	.2	89	.94	.152	7	53.4	1.06	83	.082	3	2.27	.071	.07	<.1	.03	5.9	<.1	<.05	6	<.5	15.0
20400E 7950N	.5	28.6	4.5	64	<.1	42.2	15.2	520	3.27	2.2	.7	.7	1.3	107	.1	.1	.1	77	.74	.101	9	43.6	1.07	104	.136	2	2.79	.069	.14	<.1	.02	6.4	<.1	<.05	7	<.5	15.0
20400E 7900N	.6	24.1	5.1	65	.1	33.0	14.3	444	3.00	3.0	1.5	<.5	.8	99	.3	.2	.2	72	.83	.077	5	40.9	.88	81	.112	3	2.35	.053	.09	<.1	.05	4.7	<.1	<.05	7	<.5	15.0
20400E 7850N	.6	27.2	4.7	47	.1	40.6	15.0	554	3.08	9.9	10.2	<.5	1.2	135	.1	.3	.1	83	1.06	.053	10	46.9	1.18	145	.133	2	2.56	.087	.08	<.1	.04	6.9	<.1	<.05	7	<.5	15.0
RE 20400E 7800N	.5	23.2	4.2	51	<.1	34.4	12.7	532	2.59	3.3	1.9	.7	1.0	133	.1	.2	.1	70	.86	.071	8	37.4	.92	135	.128	2	2.23	.096	.09	<.1	.03	4.7	<.1	<.05	6	<.5	15.0
20400E 7800N	.5	23.0	4.1	50	<.1	31.9	12.4	527	2.56	3.4	2.0	<.5	1.0	124	.1	.1	.1	66	.85	.066	8	35.2	.91	132	.111	2	2.08	.089	.09	<.1	.02	4.6	<.1	<.05	6	<.5	15.0
20600E 9000N	.6	27.3	3.8	72	<.1	43.3	17.1	534	2.81	3.1	.3	<.5	.6	105	.1	.4	1.0	62	.53	.076	4	43.6	1.43	66	.208	3	3.43	.029	.07	<.1	.02	4.6	<.1	<.05	11	<.5	15.0
20600E 8950N	.5	40.2	8.9	88	<.1	39.4	16.6	1319	3.13	4.4	.4	2.7	.8	96	.1	.5	1.1	64	.74	.085	7	39.4	1.13	52	.188	2	3.72	.027	.10	<.1	.03	4.6	<.1	<.05	11	<.5	15.0
20600E 8900N	.5	24.0	3.8	76	<.1	60.7	24.5	961	4.15	3.0	.4	<.5	.9	104	.1	.7	1.5	96	.97	.038	8	56.8	2.34	51	.249	2	3.19	.075	.07	<.1	.02	7.4	.1	<.05	11	<.5	15.0
20600E 8850N	.5	54.5	9.2	92	<.1	71.3	31.4	1511	4.54	3.4	.5	<.5	.8	104	.2	.6	.9	100	1.15	.063	9	57.0	2.81	32	.301	3	2.57	.072	.06	<.1	.03	8.0	<.1	<.05	11	.5	15.0
20600E 8800N	.6	53.1	14.8	81	<.1	52.1	26.9	1856	3.58	2.7	.7	<.5	1.1	128	.3	.3	.4	72	1.17	.100	21	45.5	1.83	52	.162	4	2.30	.042	.10	<.1	.12	10.4	<.1	<.05	9	.5	7.5
20600E 8750N	.4	24.8	4.3	53	<.1	33.4	15.3	444	3.42	1.8	.6	<.5	1.0	73	.1	.1	.1	79	.73	.106	5	44.5	1.00	63	.127	4	2.41	.062	.08	<.1	.03	6.4	<.1	<.05	7	<.5	15.0
20600E 8700N	.4	16.3	4.8	71	<.1	44.5	11.3	244	2.70	1.2	.3	<.5	1.0	45	.1	.1	.1	48	.34	.193	3	34.3	.50	128	.110	2	3.88	.032	.13	<.1	.03	3.2	<.1	<.05	9	<.5	15.0
20600E 8650N	.4	26.6	4.3	55	<.1	45.0	15.6	545	3.31	.7	.6	<.5	1.5	101	.1	.1	.1	70	.67	.087	10	43.9	1.16	93	.143	2	2.70	.067	.15	<.1	.02	7.5	<.1	<.05	7	<.5	15.0
20600E 8600N	.4	17.0	4.6	65	<.1	29.2	11.1	361	2.45	2.4	.4	<.5	1.2	40	.1	.1	.1	53	.27	.170	6	32.8	.47	83	.117	1	3.08	.040	.08	<.1	.02	3.7	<.1	<.05	8	<.5	15.0
20600E 8550N	.4	15.0	6.1	108	.1	23.9	9.7	540	2.17	1.5	.3	<.5	.7	25	.1	.1	.1	44	.27	.218	4	33.1	.38	84	.114	1	2.38	.027	.07	<.1	.03	2.9	<.1	<.05	9	<.5	15.0
20600E 8500N	.4	20.0	6.3	101	<.1	29.2	10.9	209	2.31	3.0	.3	<.5	1.0	28	.1	.1	.1	44	.28	.195	3	29.9	.47	110	.083	1	2.94	.025	.07	<.1	.02	3.3	<.1	<.05	9	<.5	15.0
20600E 8450N	.9	92.5	3.7	113	<.1	98.1	34.2	819	4.88	2.1	.2	<.5	.5	32	.1	.1	.1	39	.58	.193	5	6.5	1.66	54	.048	1	2.19	.092	.04	<.1	.03	1.6	<.1	<.05	6	<.5	15.0
20600E 8400N	.9	58.5	2.9	111	<.1	79.6	25.0	612	3.91	2.8	.3	<.5	.7	31	.1	.1	.1	46	.44	.175	3	14.6	1.12	85	.075	2	3.08	.070	.06	.1	.01	2.0	<.1	<.05	7	<.5	15.0
STANDARD DS6	11.5	122.1	28.9	142	.3	24.8	10.7	700	2.85	20.9	6.5	48.2	3.3	42	6.0	3.6	4.9	57	.87	.077	15	191.3	.58	167	.084	18	1.94	.076	.16	3.3	.23	3.4	1.8	<.05	6	4.2	15.0

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

Data FA

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au 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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
20600E 8350N	.5	35.3	4.2	67	<.1	47.1	14.4	319	2.80	1.7	.4	.5	1.1	73	.1	.1	.1	56	.41	.189	3	28.6	.70	148	.108	1	3.85	.029	.12	<.1	.03	3.2	<.1	<.05	9	<.5	15
20600E 8300N	.4	22.6	3.9	53	<.1	38.4	12.9	322	2.90	1.0	.4	<.5	1.0	81	.1	.1	.1	67	.41	.101	3	28.6	.73	117	.142	<1	3.18	.041	.11	<.1	.01	3.2	<.1	<.05	7	<.5	15
20600E 8250N	.4	27.9	4.4	62	<.1	48.5	16.3	351	3.24	1.1	.4	.6	1.3	76	.1	<.1	.1	71	.41	.138	4	35.4	.99	128	.151	<1	4.01	.032	.09	<.1	.01	3.8	<.1	<.05	9	<.5	15
20600E 8200N	.5	28.5	4.7	63	<.1	40.5	14.6	450	3.11	.9	.4	1.5	1.4	94	.1	.1	.1	73	.47	.106	7	37.3	.91	142	.155	1	3.85	.042	.11	<.1	.01	4.8	<.1	<.05	9	<.5	15
20600E 8150N	.4	22.8	4.2	56	<.1	34.6	13.8	343	2.96	1.5	.3	<.5	1.0	76	.1	.1	.1	66	.38	.144	3	28.8	.83	106	.167	1	3.32	.034	.14	<.1	.02	3.4	<.1	<.05	8	<.5	15
20600E 8100N	.5	94.9	3.1	62	<.1	85.7	31.8	724	5.07	3.3	.4	.5	.9	81	<.1	.1	.1	46	.87	.108	8	13.1	1.90	51	.069	<1	2.37	.075	.09	<.1	<.01	3.3	<.1	<.05	6	<.5	15
20600E 8050N	.6	22.0	4.1	53	<.1	35.4	12.9	349	2.99	1.2	.5	<.5	1.2	83	.1	.1	.1	69	.48	.162	4	31.4	.70	119	.130	2	3.45	.038	.12	<.1	<.01	3.7	<.1	<.05	8	<.5	15
20600E 8000N	.7	31.1	4.9	39	.1	37.6	14.7	572	3.15	2.5	3.3	<.5	1.0	95	.2	.2	.4	91	.99	.046	9	41.3	.94	93	.109	4	2.61	.066	.06	<.1	.02	6.2	<.1	<.05	7	<.5	15
20600E 7950N	.6	19.5	4.2	50	<.1	37.9	13.3	324	2.89	1.6	.4	<.5	1.0	73	.1	.1	.1	67	.35	.106	4	33.7	.71	94	.143	1	3.39	.033	.11	<.1	.02	3.2	<.1	<.05	9	<.5	15
20600E 7900N	.3	20.0	4.0	66	<.1	33.0	11.5	546	2.64	1.7	.4	<.5	1.1	57	.1	.1	.1	59	.52	.368	5	31.4	.56	100	.123	3	3.02	.035	.10	<.1	.01	3.8	<.1	<.05	8	<.5	15
20600E 7850N	.3	29.1	2.9	46	<.1	40.6	14.4	513	3.20	1.3	.5	<.5	1.9	170	.1	.1	.1	88	.77	.079	13	40.3	1.18	116	.152	<1	2.62	.072	.12	<.1	<.01	7.4	<.1	<.05	6	<.5	15
20600E 7800N	.3	14.0	4.4	50	<.1	25.0	8.8	278	2.40	1.5	.3	.6	1.0	46	.1	.1	.1	57	.30	.203	4	27.8	.43	75	.126	1	2.44	.034	.07	<.1	.01	2.7	<.1	<.05	8	<.5	15
RE 20600E 7800N	.3	12.7	4.5	48	<.1	24.2	8.8	277	2.34	1.5	.3	.9	1.0	46	.1	.1	.1	55	.32	.202	4	27.5	.40	75	.122	1	2.46	.030	.08	<.1	.01	2.8	<.1	<.05	7	<.5	15
STANDARD DS6	11.6	123.7	29.1	145	.3	25.1	10.8	703	2.85	21.3	6.6	45.6	2.9	40	6.1	3.4	5.0	57	.87	.079	13	192.4	.59	164	.080	18	1.90	.075	.16	3.4	.22	3.3	1.7	<.05	6	4.7	15

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

Data FA

ACME AN TICAL LABORATORIES LTD. 852 E. HASTINGS ST. COUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6 53-1716
(I 001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-2 File # A505954 Page 1

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
G-1	.8	2.0	2.8	38	<.1	6.1	3.7	478	1.61	<.5	2.7	<.5	4.8	56	<.1	<.1	.1	30	.49	.082	9	88.9	.48	161	.102	1	.82	.060	.40	.1	.01	1.9	.3	<.05	4	<.5	30.0
ZAK-S1	.3	13.8	5.8	47	<.1	10.6	6.6	371	1.76	2.7	.7	2.2	2.0	361	.1	.3	.1	42	1.01	.064	18	16.4	.61	342	.013	2	2.21	.068	.08	6.8	.04	4.5	.1	<.05	6	.5	15.0
ZAK-S2	.1	6.5	4.9	29	<.1	2.7	2.4	319	.81	1.0	.3	1.6	1.8	870	.1	<.1	.1	11	1.37	.048	20	3.1	.38	667	.001	1	2.36	.085	.07	<.1	.02	2.5	<.1	<.05	5	<.5	7.5
ZAK-S3	.4	24.9	3.7	53	<.1	25.6	13.6	637	2.75	4.2	.6	.8	1.9	81	.1	.4	.1	69	.58	.046	15	43.9	.72	128	.083	4	1.91	.093	.10	<.1	.02	8.4	.1	<.05	6	<.5	30.0
ZAK-S4	.2	13.1	4.4	27	<.1	6.4	5.5	215	1.30	2.4	.6	.5	2.3	205	<.1	.1	.1	18	1.08	.026	23	10.4	.58	442	.002	2	2.26	.128	.09	<.1	.01	3.7	.1	<.05	5	<.5	30.0
ZAK-S5	.4	26.5	5.2	76	<.1	15.8	12.5	577	3.06	3.4	.7	.9	2.4	48	.1	.3	.1	66	.69	.035	13	27.7	.66	88	.021	5	2.02	.014	.18	<.1	.03	8.5	.2	<.05	7	<.5	30.0
ZAK-S6	.3	21.7	3.8	55	<.1	22.1	10.9	443	2.72	3.1	.6	<.5	1.7	105	.1	.3	.1	71	.78	.068	12	42.1	.69	128	.101	1	2.13	.055	.09	<.1	.03	7.0	.1	<.05	6	<.5	30.0
ZAK-S7	.3	21.0	4.3	69	<.1	16.3	11.3	635	3.03	3.4	.6	1.3	1.8	182	.1	.2	.1	73	.78	.059	14	29.9	.78	189	.092	2	2.51	.037	.12	<.1	.03	8.5	.1	<.05	7	<.5	15.0
ZAK-S8	.5	18.9	6.1	73	<.1	11.7	11.2	468	3.07	4.6	1.0	<.5	3.3	61	.1	.3	.1	62	.62	.022	15	22.0	.55	62	.014	4	1.89	.007	.19	<.1	.01	8.1	.2	<.05	7	<.5	30.0
ZAK-S9	.3	20.6	5.1	51	<.1	34.0	15.6	333	3.20	2.0	.7	<.5	1.5	95	.1	.1	.1	70	.64	.090	9	58.7	.96	100	.145	2	2.29	.065	.08	<.1	.03	6.8	<.1	<.05	6	<.5	30.0
ZAK-S10	.5	30.7	4.0	56	<.1	35.9	18.0	956	3.45	6.1	.6	1.7	1.8	117	.1	.4	<.1	91	.73	.072	13	52.8	.96	166	.127	2	2.33	.056	.09	<.1	.03	8.2	.1	<.05	6	<.5	30.0
ZAK-S11	.6	28.4	5.3	86	<.1	25.3	16.3	489	3.22	7.0	.9	1.1	2.4	104	.1	.5	.1	79	.76	.071	12	41.4	.96	187	.128	3	2.88	.031	.14	<.1	.03	8.1	.1	<.05	9	<.5	30.0
ZAK-S12	.3	31.4	4.0	56	<.1	41.0	16.0	584	3.46	3.1	.6	1.8	1.9	110	.1	.3	.1	84	.82	.077	11	60.2	1.19	112	.148	3	2.25	.080	.09	<.1	.02	8.7	<.1	<.05	6	<.5	30.0
ZAK-S13	.4	30.1	3.8	55	<.1	40.2	18.2	786	3.44	3.0	.6	1.8	1.7	111	.1	.2	.1	87	.80	.093	13	63.4	1.19	116	.142	2	2.09	.076	.07	<.1	.02	8.0	<.1	<.05	6	<.5	30.0
ZAK-S14	.3	32.3	4.0	53	<.1	38.7	14.3	419	3.36	3.3	1.0	1.8	1.7	106	.1	.2	.1	84	.67	.069	12	61.5	1.06	117	.151	1	2.28	.063	.08	<.1	.02	7.5	<.1	<.05	6	<.5	30.0
ZAK-S15	.4	27.4	3.6	56	<.1	34.4	14.1	483	3.32	3.7	.5	1.6	1.5	108	.1	.4	.1	88	.63	.073	10	55.3	.88	129	.141	2	2.29	.059	.08	<.1	.02	6.8	<.1	<.05	6	<.5	30.0
ZAK-S16	2.7	28.5	5.3	61	<.1	33.6	14.9	468	3.26	62.2	.6	16.2	1.6	96	.1	1.7	<.1	77	.56	.070	7	42.4	1.01	198	.115	2	2.86	.028	.12	<.1	.04	5.1	.1	<.05	9	<.5	30.0
ZAK-S17	.6	34.5	4.8	56	<.1	42.0	15.6	554	3.66	5.9	.6	1.0	1.7	125	.1	.2	.1	92	.65	.089	11	63.0	1.02	162	.165	2	2.88	.058	.09	<.1	.03	8.0	.1	<.05	7	<.5	30.0
ZAK-S18	.5	32.5	3.9	54	<.1	45.2	16.2	592	3.75	4.7	.6	2.3	2.0	159	.1	.2	<.1	92	.72	.078	15	66.4	1.21	163	.154	1	2.96	.061	.10	<.1	.02	10.7	<.1	<.05	7	<.5	30.0
ZAK-S19	.5	31.2	3.9	53	<.1	49.6	18.9	626	3.92	8.8	.8	1.2	2.0	147	.1	.2	<.1	91	.81	.077	13	67.6	1.40	183	.175	2	2.75	.075	.09	<.1	.02	10.5	<.1	<.05	7	<.5	30.0
ZAK-S20	.7	13.1	4.1	74	<.1	17.8	14.1	488	2.62	39.8	.7	10.6	1.8	72	<.1	1.2	<.1	64	.41	.057	9	22.7	.48	124	.023	2	1.57	.008	.09	<.1	.02	4.0	.1	<.05	8	<.5	30.0
ZAK-S21	3.2	23.3	7.6	67	.1	30.4	10.6	319	2.60	8.7	.3	.8	1.2	38	.1	.3	.1	57	.19	.286	4	38.3	.40	120	.136	2	2.69	.022	.06	<.1	.02	2.7	<.1	<.05	10	<.5	30.0
ZAK-S22	8.7	25.1	10.7	54	.2	35.6	11.7	168	2.77	33.1	.3	.5	1.4	39	<.1	.3	.1	65	.19	.243	5	47.2	.35	154	.147	2	3.36	.020	.06	.1	.04	3.1	<.1	<.05	15	<.5	30.0
ZAK-S23	5.0	30.5	6.8	62	<.1	40.6	13.3	231	3.15	63.7	.5	5.8	1.4	56	.1	.4	.1	76	.30	.132	5	48.2	.53	213	.149	2	3.60	.030	.06	<.1	.04	3.6	<.1	<.05	11	<.5	30.0
ZAK-S24	1.5	27.0	6.4	31	<.1	24.8	9.2	293	2.53	22.5	.9	6.6	1.3	96	<.1	.6	.1	60	.55	.015	8	42.3	.70	208	.165	1	1.91	.071	.05	<.1	.02	5.0	.1	<.05	5	<.5	30.0
ZAK-S25	1.1	27.5	5.5	34	<.1	21.5	8.7	296	2.63	15.1	.8	3.5	1.3	102	.1	.6	.1	71	.55	.017	8	45.5	.56	223	.174	2	1.70	.072	.06	<.1	.02	4.6	.1	<.05	5	<.5	30.0
ZAK-S26	2.0	20.5	5.1	41	<.1	20.8	8.5	306	2.69	36.9	.5	9.8	.9	72	<.1	2.2	.1	71	.40	.019	6	44.1	.49	200	.093	1	1.83	.040	.07	<.1	.01	3.3	.1	<.05	6	<.5	30.0
RE ZAK-S17	.5	35.1	4.5	56	<.1	41.5	15.6	541	3.61	6.0	.6	1.5	1.7	130	.1	.2	.1	91	.61	.086	12	62.1	1.01	162	.162	2	2.76	.063	.09	.4	.02	7.9	<.1	<.05	8	<.5	30.0
ZAK-S27	2.6	16.2	6.7	48	<.1	15.8	7.3	175	2.04	52.0	.4	14.7	1.1	33	.1	1.4	.1	51	.22	.096	7	26.1	.28	163	.035	<1	2.26	.018	.07	.1	.02	2.9	.1	<.05	8	<.5	30.0
ZAK-S28	3.9	22.9	6.0	78	<.1	20.8	16.8	604	3.80	191.5	.6	27.2	1.2	72	<.1	4.8	.1	84	.54	.033	8	33.8	.85	262	.025	1	2.30	.018	.17	.1	.02	4.8	.3	<.05	9	<.5	30.0
ZAK-S29	3.8	14.6	5.0	97	.1	23.1	15.7	396	3.20	75.9	.4	4.8	1.1	34	.1	2.7	.1	79	.33	.113	4	27.1	.86	147	.125	1	2.88	.013	.09	.1	.02	4.9	.1	<.05	13	<.5	30.0
ZAK-S30	3.2	11.0	4.7	61	<.1	19.6	12.2	289	2.72	53.3	.4	8.4	1.1	39	<.1	1.7	.1	62	.26	.148	3	26.0	.62	104	.107	1	2.34	.016	.07	.1	.01	3.5	.1	<.05	10	<.5	30.0
ZAK-S31	4.3	10.8	4.2	87	.2	18.6	14.3	428	3.26	104.9	.5	7.2	1.3	24	.1	3.4	.1	76	.28	.185	4	22.9	.79	91	.052	1	3.30	.008	.08	<.1	.02	6.2	.1	<.05	13	<.5	30.0
ZAK-S32	4.6	11.9	4.0	109	.2	24.9	18.6	536	3.95	125.6	.4	10.3	1.3	29	<.1	3.8	.1	91	.30	.146	3	28.7	.89	118	.104	<1	3.56	.010	.08	.1	.03	5.6	.1	<.05	15	<.5	30.0
ZAK-S33	3.6	11.6	4.8	118	.3	26.3	19.3	465	4.05	95.2	.4	5.8	1.4	30	<.1	2.9	.1	92	.31	.190	4	28.4	.86	131	.149	2	3.42	.011	.09	.1	.03	5.3	.1	<.05	15	<.5	30.0
STANDARD DS6	11.5	123.4	30.4	144	.3	25.4	10.9	705	2.86	21.6	6.7	47.1	3.6	44	6.0	3.7	5.1	57	.86	.079	15	191.1	.58	167	.086	16	1.95	.076	.17	3.3	.23	3.4	1.7	<.05	7	4.5	30.0

GROUP 1DX - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C   Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: SEP 20 2005 DATE REPORT MAILED: Oct 13/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
ZAK-S34	1.5	10.5	6.3	51	.2	19.3	8.9	319	2.13	24.6	.3	3.1	1.1	26	.1	.5	.1	48	.18	.220	3	24.2	.24	115	.114	1	2.52	.019	.05	.1	.03	2.6	.1	<.05	9	<.5	30
ZAK-S35	1.5	19.0	4.2	56	.1	30.5	12.2	336	2.70	14.2	.4	2.5	1.2	45	.1	.3	.1	64	.24	.124	4	39.5	.56	175	.131	1	3.16	.024	.07	<.1	.04	3.4	.1	<.05	8	<.5	30
STANDARD DS6	11.5	124.1	30.3	143	.3	25.2	10.9	714	2.85	21.4	6.7	46.7	3.1	49	6.0	3.6	5.1	58	.88	.079	15	191.7	.59	165	.092	17	1.96	.078	.17	3.4	.23	3.4	1.7	<.05	6	4.3	30

Sample type: SOIL SS80 60C.

Data ___ FA ___

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(253-1716
(I 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-3 File # A506179

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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
G-1	.6	2.0	2.7	46	<.1	6.3	4.3	563	1.79	<.5	2.1	<.5	3.5	58	<.1	<.1	.1	34
MC-316	.6	27.6	2.9	60	<.1	29.6	15.5	737	3.32	5.4	.8	.6	1.2	119	.1	.3	<.1	94
MC-317	.3	26.6	3.3	72	<.1	33.0	13.7	797	2.88	3.1	.6	<.5	.9	103	.1	.4	<.1	85
MC-318	.7	40.8	3.1	81	<.1	34.5	17.7	825	3.66	7.2	.6	.6	1.1	89	<.1	.9	<.1	101
MC-319	.4	25.2	2.8	54	<.1	29.9	19.4	1340	3.10	5.0	.4	<.5	1.2	101	<.1	.4	<.1	90
MC-320	.4	18.8	3.7	65	<.1	19.8	12.6	913	3.11	5.9	1.3	<.5	.8	294	.1	.4	.1	85
MC-321	.4	20.0	3.4	65	<.1	25.1	14.0	1324	2.99	6.5	1.0	.5	.6	224	.1	.3	.1	76
MC-322	.3	21.4	3.4	59	<.1	27.4	13.9	1214	3.04	7.3	1.1	.6	.8	173	.2	.3	.1	81
STANDARD DS6	11.7	122.5	29.2	145	.3	25.1	10.8	701	2.84	20.8	6.6	47.4	3.0	40	6.0	3.5	4.9	55

SAMPLE#	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
G-1	.46	.078	7	73.6	.60	243	.114	1	1.04	.103	.61	.1	<.01	3.3	.4	<.05	5	<.5	30.0
MC-316	.82	.113	10	44.5	1.02	246	.099	5	1.68	.055	.07	.1	.02	5.0	<.1	<.05	5	<.5	15.0
MC-317	.94	.067	11	47.1	.79	167	.110	5	1.91	.072	.07	<.1	.03	6.5	<.1	<.05	5	<.5	30.0
MC-318	.83	.076	11	45.9	.96	171	.105	4	2.17	.060	.08	<.1	.03	8.1	<.1	<.05	6	<.5	30.0
MC-319	.66	.101	9	43.1	.90	125	.118	3	2.00	.046	.08	<.1	.02	6.3	<.1	<.05	6	<.5	30.0
MC-320	1.04	.184	11	33.9	.74	595	.070	3	2.40	.021	.12	<.1	.07	4.4	.1	<.05	7	<.5	15.0
MC-321	1.05	.140	9	34.1	.84	558	.092	4	2.17	.038	.08	<.1	.06	4.2	<.1	<.05	6	<.5	7.5
MC-322	1.00	.130	11	39.1	.84	442	.090	4	2.09	.044	.08	<.1	.06	4.3	.1	<.05	6	<.5	7.5
STANDARD DS6	.84	.078	15	192.4	.59	164	.081	17	1.96	.075	.16	3.5	.23	3.4	1.8	<.05	6	4.4	30.0

GROUP 1DX - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: STREAM SED.

Data | FA ____ DATE RECEIVED: SEP 29 2005 DATE REPORT MAILED: Oct. 19/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME A[illegible]YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6[illegible]253-1716
(I[illegible]001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-3 File # A506180

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	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	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
G-1	.6	2.1	2.8	44	<.1	6.6	4.1	550	1.79	<.5	2.3	.8	3.7	60	<.1	<.1	.1	33	.44	.075	8	74.0	.62	229	.119	1	1.10	.107	.56	.1	<.01	3.8	.4	<.05	5	<.5	30.0
ZAK-S36	1.1	16.2	5.1	55	.1	34.8	13.5	305	2.92	11.3	.4	2.9	1.0	43	.1	.3	.1	65	.26	.098	4	37.2	.79	104	.181	2	2.96	.028	.06	<.1	.03	3.8	.1	<.05	9	<.5	30.0
ZAK-S37	1.4	18.6	4.9	73	.2	29.5	12.3	301	2.67	31.4	.5	3.2	1.1	43	.1	.7	.1	60	.32	.154	6	31.9	.57	211	.122	2	3.33	.020	.07	<.1	.03	4.1	.1	<.05	10	<.5	30.0
ZAK-S38	1.6	19.9	4.0	43	<.1	37.0	13.2	262	3.03	4.9	.3	1.0	1.2	77	<.1	.2	.1	71	.33	.104	4	48.7	.58	184	.153	2	3.49	.035	.08	<.1	.02	3.6	<.1	<.05	9	<.5	30.0
ZAK-S39	3.0	30.0	3.9	80	<.1	41.1	21.0	524	5.11	5.1	.6	.7	1.5	54	.1	.5	.1	118	.41	.091	10	43.1	.53	191	.123	4	3.04	.028	.16	<.1	.03	11.6	.1	<.05	8	<.5	30.0
ZAK-S40	1.0	61.2	2.8	64	<.1	33.0	22.3	866	5.04	9.0	.6	.9	1.5	73	<.1	.4	.1	122	.57	.094	13	37.1	.67	107	.069	4	1.66	.051	.06	<.1	.02	12.4	.1	<.05	5	<.5	15.0
ZAK-S41	.4	34.5	3.1	55	<.1	37.6	15.7	586	3.61	5.2	.5	1.6	1.7	105	.1	.4	<.1	95	.66	.071	13	49.3	1.13	147	.132	3	2.71	.047	.07	<.1	.03	9.4	<.1	<.05	7	<.5	15.0
ZAK-S42	.4	30.5	2.6	46	<.1	30.0	12.0	438	3.16	4.8	.5	2.7	1.5	96	.1	.5	<.1	83	.68	.054	10	42.0	.88	170	.132	4	2.09	.070	.06	<.1	.02	8.3	<.1	<.05	6	<.5	15.0
ZAK-S43	.7	36.2	3.2	56	<.1	36.5	18.7	804	3.81	13.7	.5	5.5	1.7	93	.1	.8	<.1	99	.86	.087	15	41.7	1.06	207	.125	3	1.83	.073	.09	<.1	.03	10.6	.1	<.05	6	<.5	15.0
RE ZAK-S38	1.4	19.0	4.0	43	<.1	36.4	13.5	265	3.00	4.9	.3	1.4	1.1	77	<.1	.2	.1	71	.33	.105	4	47.1	.56	188	.147	3	3.36	.031	.08	<.1	.02	3.3	<.1	<.05	8	<.5	30.0
ZAK-S44	.7	35.6	3.2	56	<.1	38.2	19.3	758	3.69	9.6	.4	1.8	1.5	102	.1	.8	.1	103	.77	.082	12	42.4	1.00	139	.116	2	2.03	.064	.07	<.1	.03	9.4	.1	<.05	6	<.5	15.0
ZAK-S45	1.4	43.5	3.0	72	<.1	34.3	16.4	557	4.10	10.4	.5	2.1	1.5	66	<.1	1.5	.1	115	.49	.050	12	43.9	.87	231	.131	3	2.72	.034	.11	.1	.04	12.9	.1	<.05	7	<.5	15.0
ZAK-S46	1.9	98.4	1.3	62	<.1	11.4	19.9	997	6.62	135.5	1.1	22.5	3.1	38	<.1	1.4	.1	190	.53	.163	18	9.2	.54	99	.014	2	1.64	.008	.05	<.1	.08	32.7	.1	<.05	9	.8	30.0
ZAK-S47	2.3	97.4	2.3	57	<.1	19.3	20.1	778	5.71	30.8	.7	14.8	2.1	45	<.1	2.1	.1	150	.41	.097	17	22.8	.41	180	.048	4	1.49	.019	.06	<.1	.10	23.5	.1	<.05	5	1.0	15.0
ZAK-S48	11.8	101.6	2.1	47	.1	8.7	29.6	1156	6.72	38.5	.6	21.5	2.7	15	.1	1.5	.1	114	.29	.152	16	6.5	.18	187	.006	3	.70	.006	.05	<.1	.15	23.2	.1	<.05	3	1.6	15.0
ZAK-S49	5.0	91.8	4.7	86	.1	16.4	22.3	519	9.57	79.2	.9	73.3	4.1	14	<.1	4.6	.1	266	.27	.166	14	12.5	.14	101	.020	3	.86	.006	.04	.2	.91	24.8	<.1	<.05	3	2.8	15.0
ZAK-S50	1.4	37.5	4.3	73	<.1	32.7	15.2	433	3.58	10.4	.4	13.1	1.1	60	.1	2.1	.1	99	.39	.064	6	40.4	.66	256	.141	2	2.99	.028	.10	<.1	.04	6.3	.1	<.05	7	<.5	30.0
ZAK-S51	1.0	28.7	5.3	105	<.1	18.4	11.9	498	3.19	9.9	.3	.8	.8	30	.1	1.6	.1	71	.26	.128	4	29.7	.31	143	.081	4	2.15	.019	.06	.1	.04	5.0	.1	<.05	7	<.5	15.0
ZAK-S52	.7	58.6	3.2	79	<.1	52.7	30.2	1423	5.18	19.8	.5	1.1	2.0	47	.1	1.0	<.1	127	.81	.191	18	52.4	.50	229	.004	2	1.32	.023	.06	<.1	.03	14.9	.1	<.05	4	<.5	7.5
ZAK-S53	.4	29.4	3.3	58	<.1	38.5	15.6	737	3.12	4.3	.4	.9	1.5	125	.1	.3	.1	86	.84	.092	11	43.4	1.01	141	.127	3	1.70	.104	.07	<.1	.02	7.3	<.1	<.05	5	<.5	30.0
ZAK-S54	.6	29.7	3.0	52	<.1	31.4	14.9	608	3.54	9.4	.6	2.3	1.4	96	.1	.5	.1	94	.65	.074	11	41.3	.83	202	.119	3	1.69	.075	.07	<.1	.02	7.9	<.1	<.05	5	<.5	30.0
ZAK-S55	.5	27.9	3.0	48	<.1	39.8	14.8	557	3.42	6.6	.9	2.2	1.6	135	.1	.5	.1	94	.80	.076	12	45.9	1.02	197	.134	4	2.09	.087	.09	<.1	.03	9.6	.1	<.05	6	<.5	15.0
ZAK-S56	.5	30.4	3.8	67	<.1	42.8	14.9	619	3.52	5.5	.4	.8	1.5	105	.1	.4	.1	94	.59	.090	11	52.7	.90	211	.151	3	3.52	.049	.10	<.1	.02	9.0	<.1	<.05	8	<.5	30.0
STANDARD DS6	11.7	122.5	29.2	145	.3	25.1	10.8	701	2.84	20.8	6.6	47.4	3.0	40	6.0	3.5	4.9	55	.84	.078	15	192.4	.59	164	.081	17	1.96	.075	.16	3.5	.23	3.4	1.8	<.05	6	4.4	30.0

GROUP 1DX - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: SOIL SS80 60C <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

Data ✓ FA ____ DATE RECEIVED: SEP 29 2005 DATE REPORT MAILED: Oct.19/05

BRITISH COLUMBIA CERTIFIED ASSAYER
C.L.
Clarence Leong

ACME A YTICAL LABORATORIES LTD. 852 E. HASTINGS ST. NCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(6 253-1716
(I 9001 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-3 File # A506181

1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm
ZAK-R2	6.6	20.3	1.3	5	.4	1.3	.6	54	.58	55.9	.1	217.1	.1	5	<.1	3.7	<.1
RE ZAK-R2	6.4	20.1	1.3	6	.4	1.2	.6	52	.58	55.7	.1	202.5	.1	4	<.1	3.5	<.1
ZAK-R3	6.4	39.2	.7	6	.7	2.3	1.8	56	.52	87.1	.3	689.5	.1	17	.5	5.3	<.1
ZAK-R4	54.7	9.2	1.0	7	1.0	2.6	1.6	94	.88	103.0	.2	1176.1	.1	7	<.1	8.3	<.1
ZAK-R5	22.5	8.2	1.6	30	.3	7.5	7.4	279	1.62	164.2	.4	359.8	.7	53	<.1	8.1	<.1
ZAK-R6	61.0	9.6	2.1	22	.3	8.9	5.5	302	2.13	272.8	.5	544.0	.8	52	<.1	12.3	<.1
ZAK-R7	8.7	9.2	2.0	55	.2	9.7	10.1	392	2.19	140.0	.6	95.2	.8	66	<.1	4.5	<.1
ZAK-R8	79.0	13.8	1.7	20	.3	4.7	4.5	149	1.38	165.1	.5	497.8	.7	17	<.1	10.4	<.1
ZAK-R9P1	59.2	16.0	1.7	26	.3	4.7	4.2	275	2.47	474.3	.4	728.2	.4	26	<.1	21.7	<.1
ZAK-R9P2	61.1	18.0	1.6	23	.4	4.1	4.2	223	2.01	331.1	.3	960.9	.3	23	<.1	16.1	<.1
ZAK-R10	24.2	7.3	.6	7	.6	1.6	1.0	56	.52	55.7	.1	1827.6	.1	10	<.1	5.2	<.1
ZAK-R11P	46.3	12.8	3.3	28	.4	2.6	3.9	267	1.76	243.8	.6	892.6	1.0	20	.2	10.1	<.1
ZAK-R12P	51.5	9.8	3.0	28	.3	2.7	5.1	237	1.66	237.4	.6	908.7	1.1	19	.1	9.5	<.1
ZAK-R13	36.8	14.5	4.0	16	.4	2.0	2.6	144	1.38	277.7	.4	496.8	.4	11	.3	17.1	<.1
ZAK-R14	211.9	20.4	6.8	35	.2	5.7	13.6	532	6.56	795.2	1.0	1045.5	.6	25	<.1	32.5	<.1
ZAK-R15	37.7	10.9	1.2	20	.8	3.4	2.6	184	1.03	155.4	.3	342.4	.4	23	<.1	8.5	<.1
WZT-R1	3.0	12.6	.9	24	<.1	9.4	10.4	326	2.06	28.4	1.6	7.5	.7	67	.1	1.8	<.1
WZT-R2	13.6	28.2	1.0	17	<.1	6.6	6.9	131	1.46	102.0	3.4	22.3	1.1	35	<.1	4.7	<.1
WZT-R3	8.1	66.6	1.2	35	.2	12.5	14.0	243	2.30	240.9	.9	63.2	.4	36	<.1	6.4	<.1
WZ-R4	1.2	18.9	.8	6	<.1	1.4	4.9	199	1.83	16.5	.3	16.3	.5	15	<.1	4.8	<.1
STANDARD DS6	11.6	122.6	29.6	143	.3	25.0	10.6	706	2.82	21.2	6.6	46.3	3.1	42	6.0	3.5	5.0

SAMPLE#	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample kg
ZAK-R2	11	.05	.005	1	14.3	.04	22	.001	2	.23	.004	.10	.1	.41	.5	.1	<.05	1	<.5	.41
RE ZAK-R2	11	.05	.004	1	14.7	.03	21	.001	2	.24	.004	.10	.1	.40	.4	.1	<.05	1	<.5	.00
ZAK-R3	76	.08	.021	3	18.5	.04	303	.001	1	.25	.003	.11	<.1	2.35	.5	.1	<.05	1	.5	1.53
ZAK-R4	18	.07	.015	1	15.3	.05	39	.002	2	.25	.005	.08	.1	.47	.6	.4	.06	1	.7	2.11
ZAK-R5	38	.36	.032	4	8.8	.28	57	.019	3	.89	.030	.17	.1	.25	2.1	.2	<.05	4	<.5	3.92
ZAK-R6	47	.34	.027	5	8.2	.26	107	.009	4	1.13	.028	.20	.2	.16	2.3	.4	<.05	5	<.5	3.62
ZAK-R7	50	.58	.060	5	12.4	.54	88	.050	3	1.35	.038	.21	.1	.08	4.0	.4	<.05	7	<.5	2.87
ZAK-R8	30	.12	.007	2	13.9	.10	49	.004	3	.64	.004	.20	.1	.43	1.8	.3	<.05	3	<.5	7.95
ZAK-R9P1	67	.24	.012	3	14.0	.21	63	.006	2	.98	.009	.22	.5	.26	3.3	.2	<.05	4	<.5	8.75
ZAK-R9P2	52	.22	.007	2	12.4	.20	57	.005	2	.85	.010	.19	.4	.66	2.5	.3	<.05	3	<.5	8.91
ZAK-R10	27	.09	.005	1	10.3	.07	38	.002	1	.41	.005	.11	.1	.37	.8	.1	<.05	1	<.5	10.31
ZAK-R11P	48	.19	.016	5	6.1	.16	61	.005	2	.88	.007	.18	.2	.69	2.5	.3	<.05	4	<.5	14.56
ZAK-R12P	43	.16	.012	4	7.8	.17	66	.005	2	.85	.009	.20	.2	.60	2.4	.4	<.05	3	<.5	14.89
ZAK-R13	35	.09	.012	7	9.8	.08	33	.005	2	.55	.005	.21	.2	1.09	1.8	.1	<.05	2	.5	5.63
ZAK-R14	103	.27	.037	5	18.4	.14	55	.004	6	1.15	.004	.28	1.0	1.03	3.9	.2	<.05	6	.7	4.25
ZAK-R15	44	.27	.049	3	10.4	.19	41	.010	3	.82	.009	.22	.2	.15	1.8	.1	<.05	3	<.5	3.88
WZT-R1	22	.88	.017	2	4.1	.37	218	<.001	6	.79	.018	.06	<.1	.07	4.2	.1	.57	2	<.5	3.52
WZT-R2	31	.06	.021	5	8.5	.04	206	.002	4	.80	.016	.05	<.1	.22	5.3	.2	<.05	2	<.5	5.96
WZT-R3	52	.10	.050	2	16.8	.03	416	.001	5	1.00	.011	.10	<.1	.18	5.9	.4	.28	3	.8	4.21
WZ-R4	59	.04	.015	4	9.9	.02	33	.009	7	.45	.013	.05	.4	.04	3.8	<.1	<.05	2	<.5	3.22
STANDARD DS6	57	.86	.078	15	188.7	.58	164	.083	17	1.91	.073	.16	3.3	.23	3.3	1.7	<.05	7	4.4	.00

GROUP 1DX - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___ DATE RECEIVED: SEP 29 2005 DATE REPORT MAILED: Oct 19/05

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9001 Accredited Co.)

ASSAY CERTIFICATE

Almaden Minerals Ltd. PROJECT NR05-3 File # A506181R

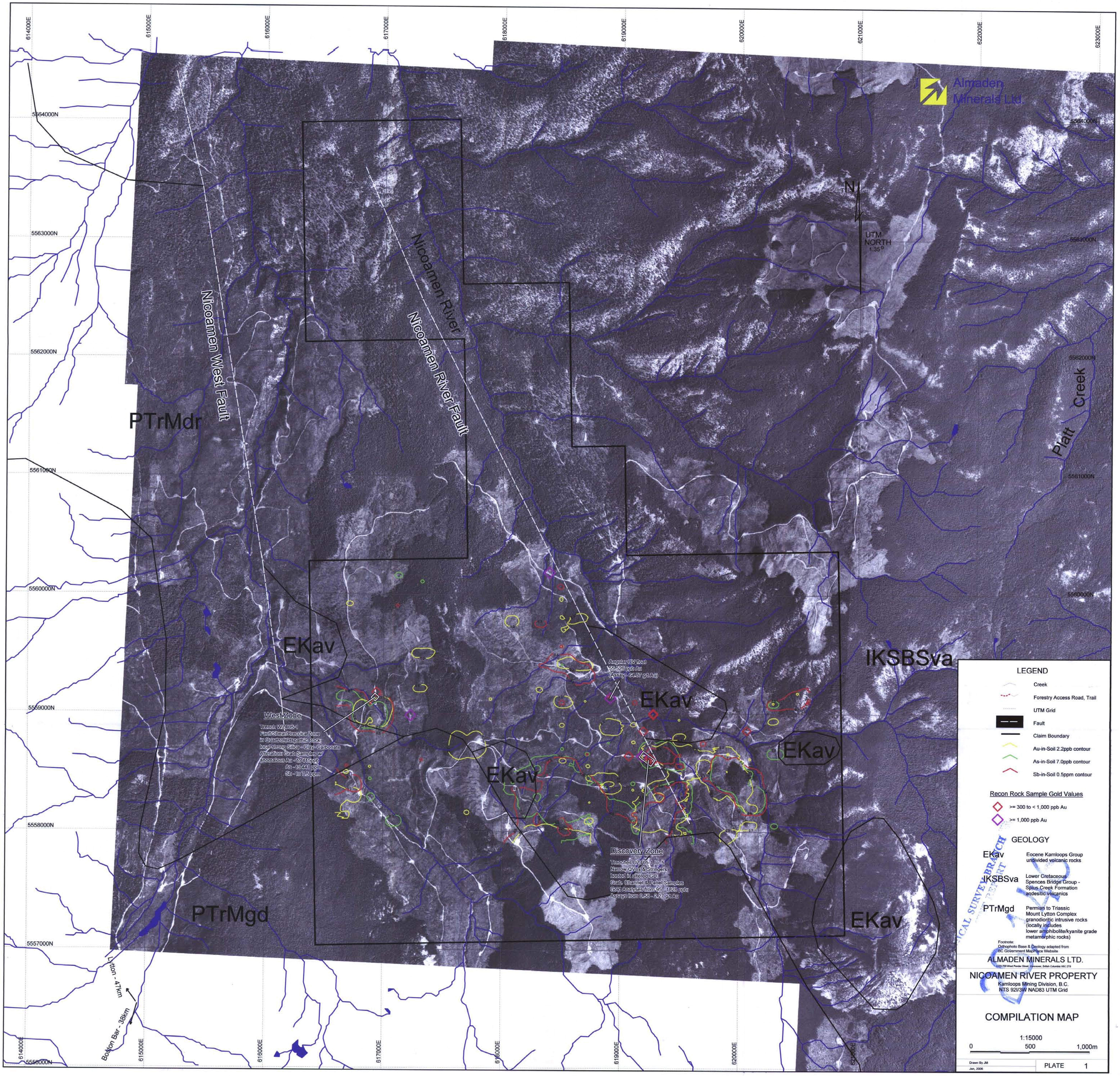
1103 - 750 W. Pender St., Vancouver BC V6C 2T8 Submitted by: Ed Balon

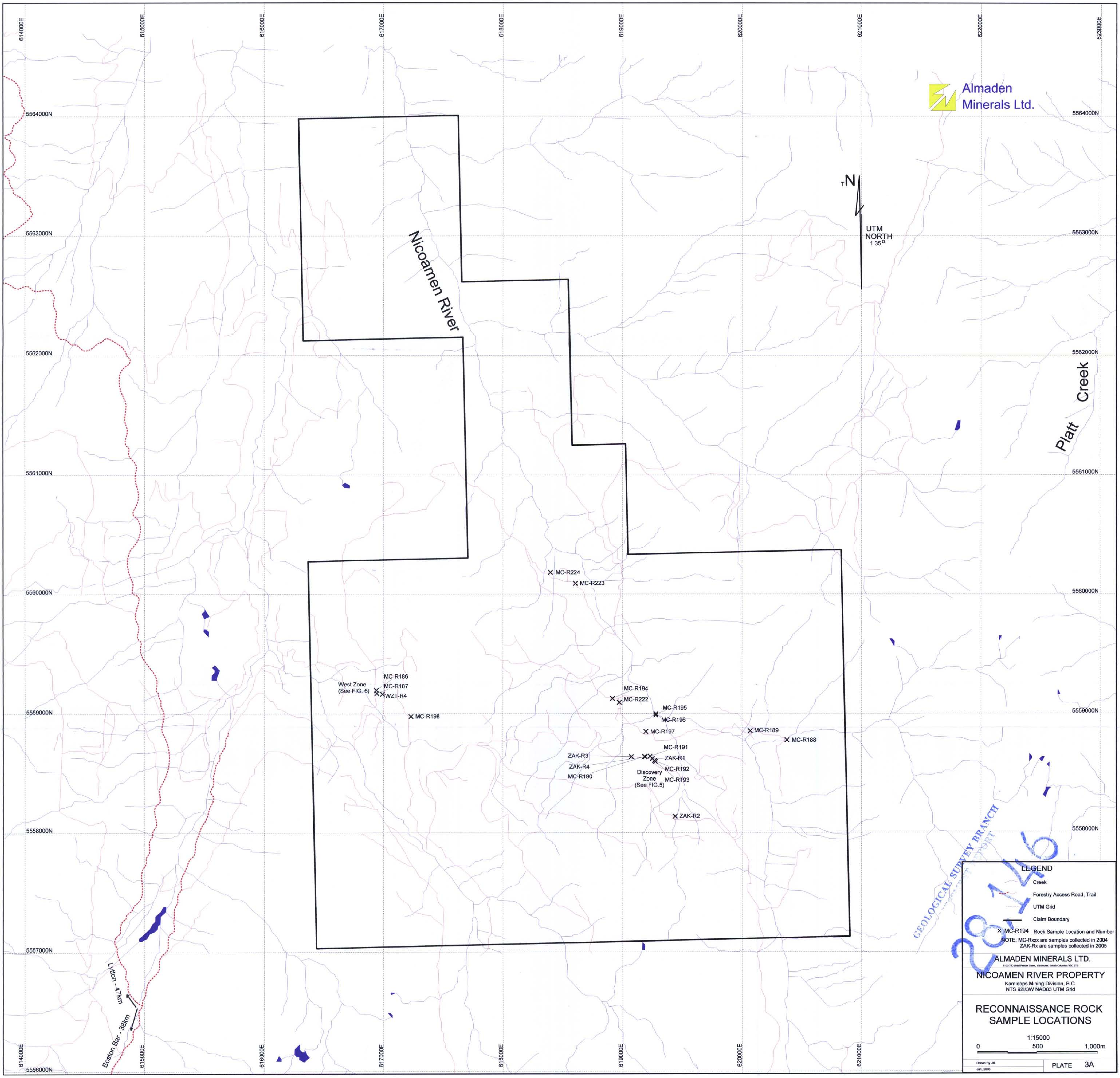
SAMPLE#	Ag** gm/mt	Au** gm/mt
ZAK-R9P1	<2	.86
ZAK-R9P2	<2	1.16
ZAK-R10	<2	2.27
ZAK-R11P	<2	1.17
ZAK-R12P	<2	1.18
ZAK-R13	<2	.58
ZAK-R14	<2	1.16
STANDARD R-2a/OxL34	156	5.78

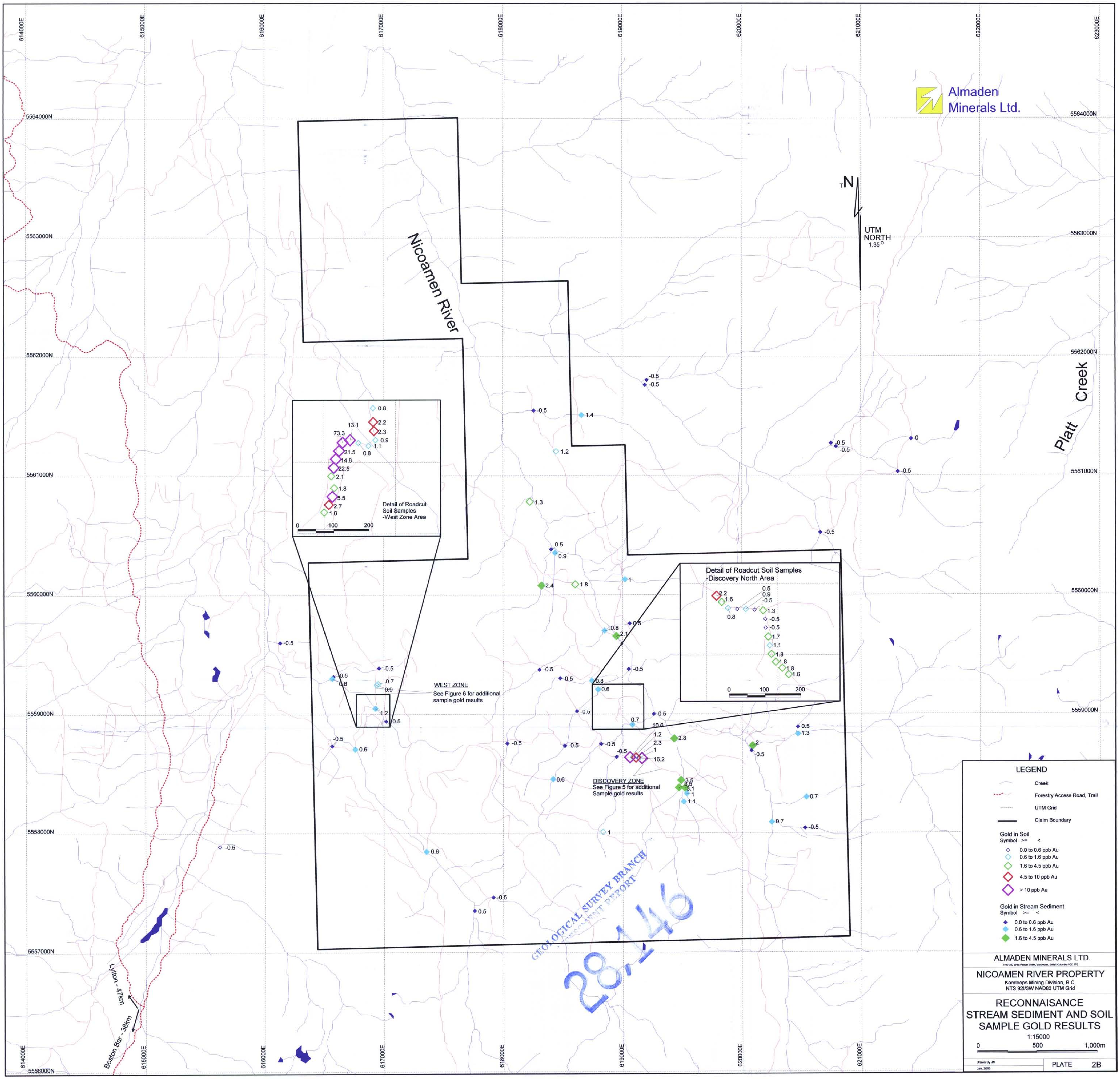
GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: Rock Pulp

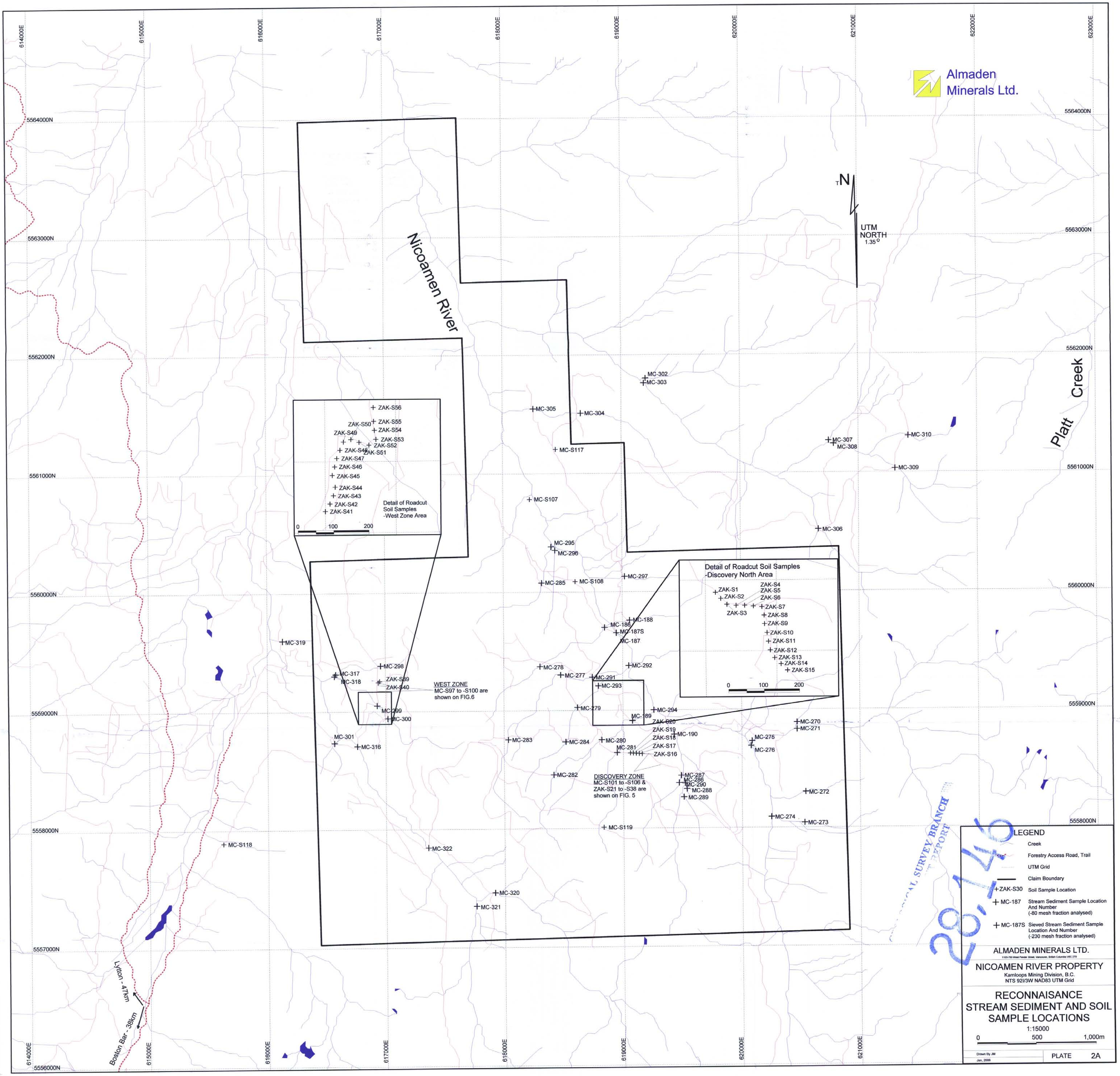
Data (FA ____ DATE RECEIVED: JAN 24 2006 DATE REPORT MAILED: Jan. 30/06

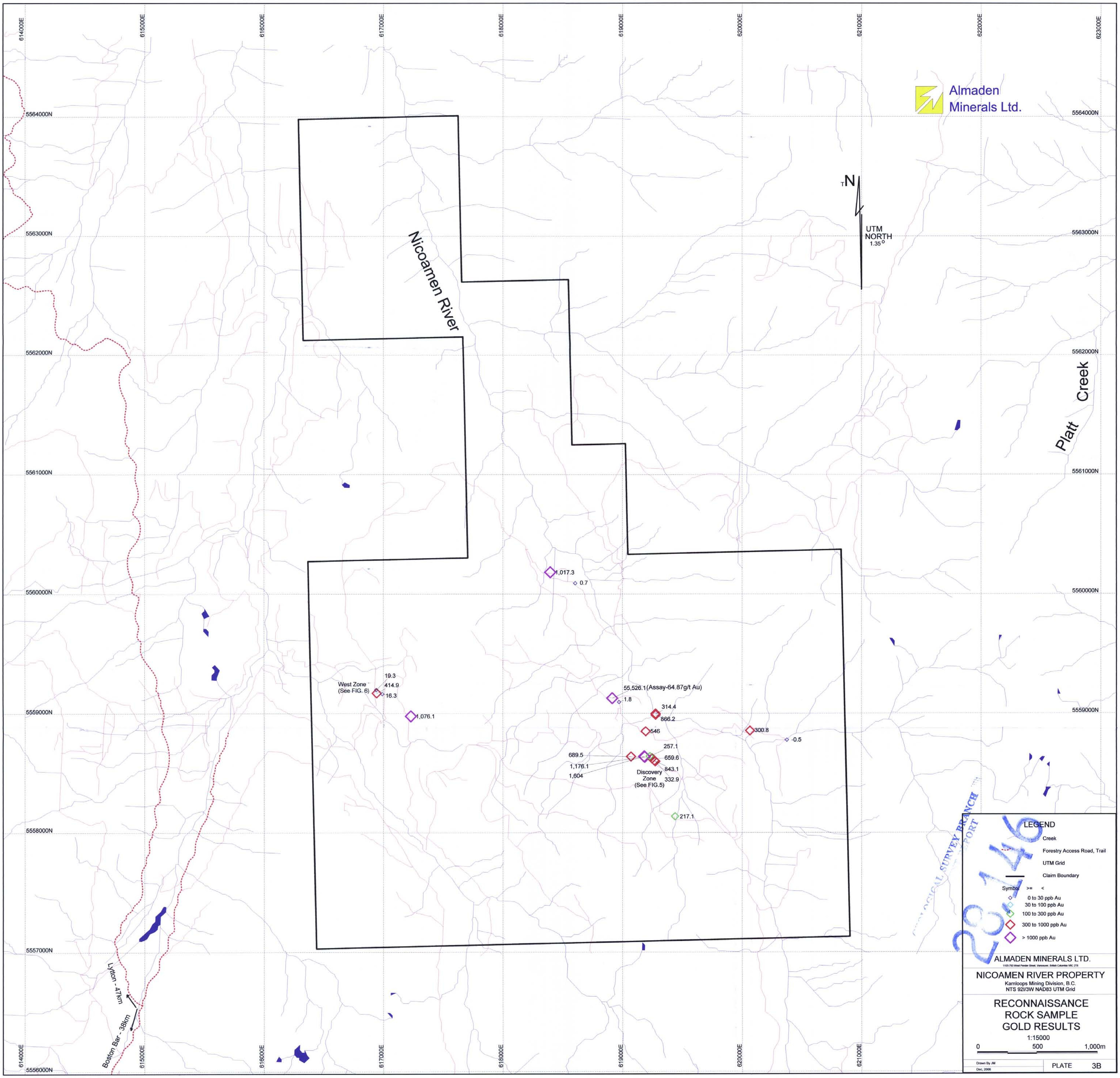
BRITISH COLUMBIA CERTIFIED ASSAYER
C. L.
Clarence Leong


Almaden Minerals Ltd.
Nicoamen West Fault
Nicoamen River
Nicoamen River Fault
Platt Creek
PTrMdr
PTrMgd
EKav
IKSBSva
N
UTM NORTH 1.35°
West Zone
Trench WZT05-1
Fault/Shear/Breccica Zone
in Quartzofeldspathic Rock;
local strong Silica - Clay- Carbonate
Alteration; Grab Samples w/
anomalous Au - to 415ppb
As - to 441 ppm
Sb - to 7.5 ppm
Angular QV float
55,526 ppb Au
(Assay - 64.87 g/t Au)
Discovery Zone
Trenches DZT05-1 to -5
Narrow QVns & Stringers
hosted in altered GD;
Grab, Channel & Panel Samples
Gold Analyses from 95 - 1828 ppb;
Assays from 0.58 - 2.27 g/t Au
Lytton - 47km
Boston Bar - 38km
614000E
615000E
616000E
617000E
618000E
619000E
620000E
621000E
622000E
623000E
5564000N
5563000N
5562000N
5561000N
5560000N
5559000N
5558000N
5557000N
5556000N
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Fault
Claim Boundary
Au-in-Soil 2.2ppb contour
As-in-Soil 7.0ppb contour
Sb-in-Soil 0.5ppm contour
Recon Rock Sample Gold Values
>= 300 to < 1,000 ppb Au
>= 1,000 ppb Au
GEOLOGY
EKav Eocene Kamloops Group undivided volcanic rocks
IKSBSva Lower Cretaceous Spences Bridge Group - Spius Creek Formation andesitic volcanics
PTrMgd Permian to Triassic Mount Lytton Complex granodioritic intrusive rocks (locally includes lower amphibolite/kyanite grade metamorphic rocks)
Footnote:
Orthophoto Base & Geology adapted from BC Government MapPlace Website
ALMADEN MINERALS LTD.
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
COMPILATION MAP
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
PLATE 1


Almaden Minerals Ltd.
TN
UTM NORTH 1.35°
Nicoamen River
Platt Creek
614000E
615000E
616000E
617000E
618000E
619000E
620000E
621000E
622000E
623000E
5564000N
5563000N
5562000N
5561000N
5560000N
5559000N
5558000N
5557000N
5556000N
MC-R224
MC-R223
West Zone (See FIG. 6)
MC-R186
MC-R187
WZT-R4
MC-R198
MC-R194
MC-R222
MC-R195
MC-R196
MC-R197
MC-R189
MC-R188
MC-R191
ZAK-R3
ZAK-R1
ZAK-R4
MC-R192
MC-R190
Discovery Zone (See FIG.5)
MC-R193
ZAK-R2
Lytton - 47km
Boston Bar - 38km
GEOLOGICAL SURVEY BRANCH
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
MC-R194 Rock Sample Location and Number
NOTE: MC-Rxxx are samples collected in 2004
ZAK-Rx are samples collected in 2005
ALMADEN MINERALS LTD.
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
RECONNAISSANCE ROCK SAMPLE LOCATIONS
1:15000
0
500
1,000m
Drawn By JM
Jan, 2006
PLATE 3A


Almaden Minerals Ltd.
Nicoamen River
Platt Creek
N
UTM NORTH 1.35°
Detail of Roadcut Soil Samples -West Zone Area
Detail of Roadcut Soil Samples -Discovery North Area
WEST ZONE
See Figure 6 for additional sample gold results
DISCOVERY ZONE
See Figure 5 for additional Sample gold results
Lytton - 47km
Boston Bar - 38km
GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORT
28,146
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Gold in Soil
Symbol >= <
0.0 to 0.6 ppb Au
0.6 to 1.6 ppb Au
1.6 to 4.5 ppb Au
4.5 to 10 ppb Au
> 10 ppb Au
Gold in Stream Sediment
Symbol >= <
0.0 to 0.6 ppb Au
0.6 to 1.6 ppb Au
1.6 to 4.5 ppb Au
ALMADEN MINERALS LTD.
1103-750 West Pender Street, Vancouver, British Columbia V6C 2T8
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
RECONNAISANCE
STREAM SEDIMENT AND SOIL
SAMPLE GOLD RESULTS
1:15000
0 500 1,000m
Drawn By JM
Jan, 2006
PLATE 2B


Almaden Minerals Ltd.
Nicoamen River
Platt Creek
UTM NORTH 1.35°
N
614000E
615000E
616000E
617000E
618000E
619000E
620000E
621000E
622000E
623000E
5564000N
5563000N
5562000N
5561000N
5560000N
5559000N
5558000N
5557000N
5556000N
Detail of Roadcut Soil Samples -West Zone Area
Detail of Roadcut Soil Samples -Discovery North Area
WEST ZONE
MC-S97 to -S100 are shown on FIG.6
DISCOVERY ZONE
MC-S101 to -S106 & ZAK-S21 to -S38 are shown on FIG. 5
ZAK-S56
ZAK-S55
ZAK-S54
ZAK-S53
ZAK-S52
ZAK-S51
ZAK-S50
ZAK-S49
ZAK-S48
ZAK-S47
ZAK-S46
ZAK-S45
ZAK-S44
ZAK-S43
ZAK-S42
ZAK-S41
ZAK-S1
ZAK-S2
ZAK-S3
ZAK-S4
ZAK-S5
ZAK-S6
ZAK-S7
ZAK-S8
ZAK-S9
ZAK-S10
ZAK-S11
ZAK-S12
ZAK-S13
ZAK-S14
ZAK-S15
ZAK-S16
ZAK-S17
ZAK-S18
ZAK-S19
ZAK-S20
ZAK-S39
ZAK-S40
MC-302
MC-303
MC-304
MC-305
MC-S117
MC-S107
MC-295
MC-296
MC-285
MC-S108
MC-297
MC-186
MC-188
MC-187S
MC-187
MC-292
MC-278
MC-277
MC-291
MC-293
MC-279
MC-294
MC-189
MC-190
MC-280
MC-281
MC-283
MC-284
MC-282
MC-287
MC-286
MC-290
MC-288
MC-289
MC-S119
MC-319
MC-317
MC-318
MC-298
MC-299
MC-300
MC-301
MC-316
MC-322
MC-320
MC-321
MC-S118
MC-307
MC-308
MC-310
MC-309
MC-306
MC-270
MC-271
MC-275
MC-276
MC-272
MC-274
MC-273
Lytton - 47km
Boston Bar - 38km
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
ZAK-S30 Soil Sample Location
MC-187 Stream Sediment Sample Location And Number (-80 mesh fraction analysed)
MC-187S Sieved Stream Sediment Sample Location And Number (-230 mesh fraction analysed)
ALMADEN MINERALS LTD.
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
RECONNAISSANCE STREAM SEDIMENT AND SOIL SAMPLE LOCATIONS
1:15000
0 500 1,000m
Drawn By JM
Jan, 2006
PLATE 2A
28,146


Almaden Minerals Ltd.
Nicoamen River
Platt Creek
N
UTM NORTH 1.35°
614000E
615000E
616000E
617000E
618000E
619000E
620000E
621000E
622000E
623000E
5564000N
5563000N
5562000N
5561000N
5560000N
5559000N
5558000N
5557000N
5556000N
1,017.3
0.7
West Zone (See FIG. 6)
19.3
414.9
16.3
1,076.1
55,526.1(Assay-64.87g/t Au)
1.8
314.4
866.2
546
300.8
-0.5
257.1
689.5
659.6
1,176.1
1,604
843.1
Discovery Zone (See FIG.5)
332.9
217.1
Lytton - 47km
Boston Bar - 38km
LEGEND
Creek
Forestry Access Road, Trail
UTM Grid
Claim Boundary
Symbol >= <
0 to 30 ppb Au
30 to 100 ppb Au
100 to 300 ppb Au
300 to 1000 ppb Au
> 1000 ppb Au
ALMADEN MINERALS LTD.
1103-750 West Pender Street, Vancouver, British Columbia V6C 2T8
NICOAMEN RIVER PROPERTY
Kamloops Mining Division, B.C.
NTS 92I/3W NAD83 UTM Grid
RECONNAISSANCE
ROCK SAMPLE
GOLD RESULTS
1:15000
0 500 1,000m
Drawn By JM
Dec, 2006
PLATE 3B