**Report of Work**

**VMS and LGY Claims**
Skeena Mining Division
British Columbia

NTS 103P/11W
55°35'32" North
129°15'57" West



Registered Owner: Fayz Yacoub, P. Geo.

Operator: Golden Dawn Minerals Ltd.

Report by: Erik Ostensoe, P. Geo.

Date of Report: January 21, 2008.

Event No. 4174370.
Mine Permit no. 14675-20-01700.

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APPENDICES

## 1.0 INTRODUCTION

The VMS and LGY claims, located 56 km southeast of the town of Stewart, in Skeena Mining Division, British Columbia, were explored during August, 2007 by Golden Dawn Minerals Ltd. in search of precious and base metal deposits. Principal methods were prospecting, rock sampling, soil sampling and geophysical surveys. Work was directed by ON Track Exploration Inc., a company owned by Fayz Yacoub, registered owner of the claims and vendor to Golden Dawn M. L. and was completed in the period August 14 to 31, 2007. Geophysical and sampling surveys were performed by personnel of Geotronics Consulting Inc. of Surrey, B. C. Rock samples were analysed by Acme Analytical Laboratories Ltd. of Vancouver, B. C. and MMI (mobile metal ions) samples were analysed by SGS Mineral Services of Toronto, Ontario. The exploration crews were based in Stewart, B. C. and travelled daily to the work sites by helicopter. Total cost of the work program was in excess of $92,804 which sum is being applied as assessment work: $14,907 is being applied to the VMS and LGY claims and the balance, $77,897, is to be credited to Mr. Yacoub's Portable Assessment Credit account.

The VMS and LGY claims are located in the Alice Arm district of Skeena Mining Division in the Coast Mountains of northwestern British Columbia, Canada (Figures 1 and 2). They appear on NTS map 103P/11W and the geographic coordinates of the center of the claims are 55°35'32" North, 129°15'57" West. UTM designation (NAD 83) is Zone 9, 6159367 North, 483626 West. The claims are crossed by streams tributary to Lahte Creek, itself a tributary of Tchitin and, ultimately, Nass Rivers.

Access to the claims is entirely by helicopter. The most direct route from Stewart to the property requires traversing the Cambria Icefield but a longer path that avoids the glacial terrain is followed when weather conditions are less favourable. One way flight times vary from 25 minutes to 40 minutes and, on occasion, more than one flight was required to move crews, tools and samples into and back from the work area. If required, freight could be mobilized by truck to logging roads that pass within 10 km of the claims but helicopter support would still be required.

Although the VMS and LGY claims are located close to the historic Alice Arm silver mining camp, early prospectors faced daunting physical obstacles in gaining access to the area. Several mineral showings, including those on and near the LGY claim, were discovered prior to the introduction of aircraft-supported mineral exploration efforts. In the "modern" era, since the mid-1950s, the VMS claims have been explored by several companies, including Hudson Bay Exploration and Development Co. Ltd. in 1981 (ARIS report #9823), Rubicon Minerals Corporation in 1997 (ARIS report # 25442) and Canadian Empire Exploration Corp. in 2002 (ARIS report #27153). Mr. Yacoub, present registered owner of the claims, first acquired them as conventional MGS claims in 1999 and completed a program of basic prospecting and sampling in 2000 (ARIS report #26563). Current claims are listed in Table 1 of this report.

Golden Dawn Minerals Ltd. negotiated an option agreement with Mr. Yacoub in November of 2006 and financed the 2007 program of prospecting, grid preparation, rock and soil sampling and geophysical surveys. A 4.475 line-km grid was established on the steep slope immediately northeast of Lahte Creek. 56 rock samples, thirteen stream sediment and 75 MMI soil samples were obtained, and 3.275 line km of magnetic surveys and 2.775 km of VLF-EM surveys were completed. MMI data have been compiled, and geophysical data have been plotted and interpreted by Geotronics Consulting Inc. of Surrey, B. C. The latter company has provided a comprehensive exploration report entitled "Exploration Report on Geophysics and Geochemistry on a Grid within the Western Boulder Zone, VMS Property, Lahte Creek, Skeena Mining Division, British Columbia" that is attached to this report as Appendix 1.

# THE VMS PROPERTY ( GENERAL LOCATION MAP)

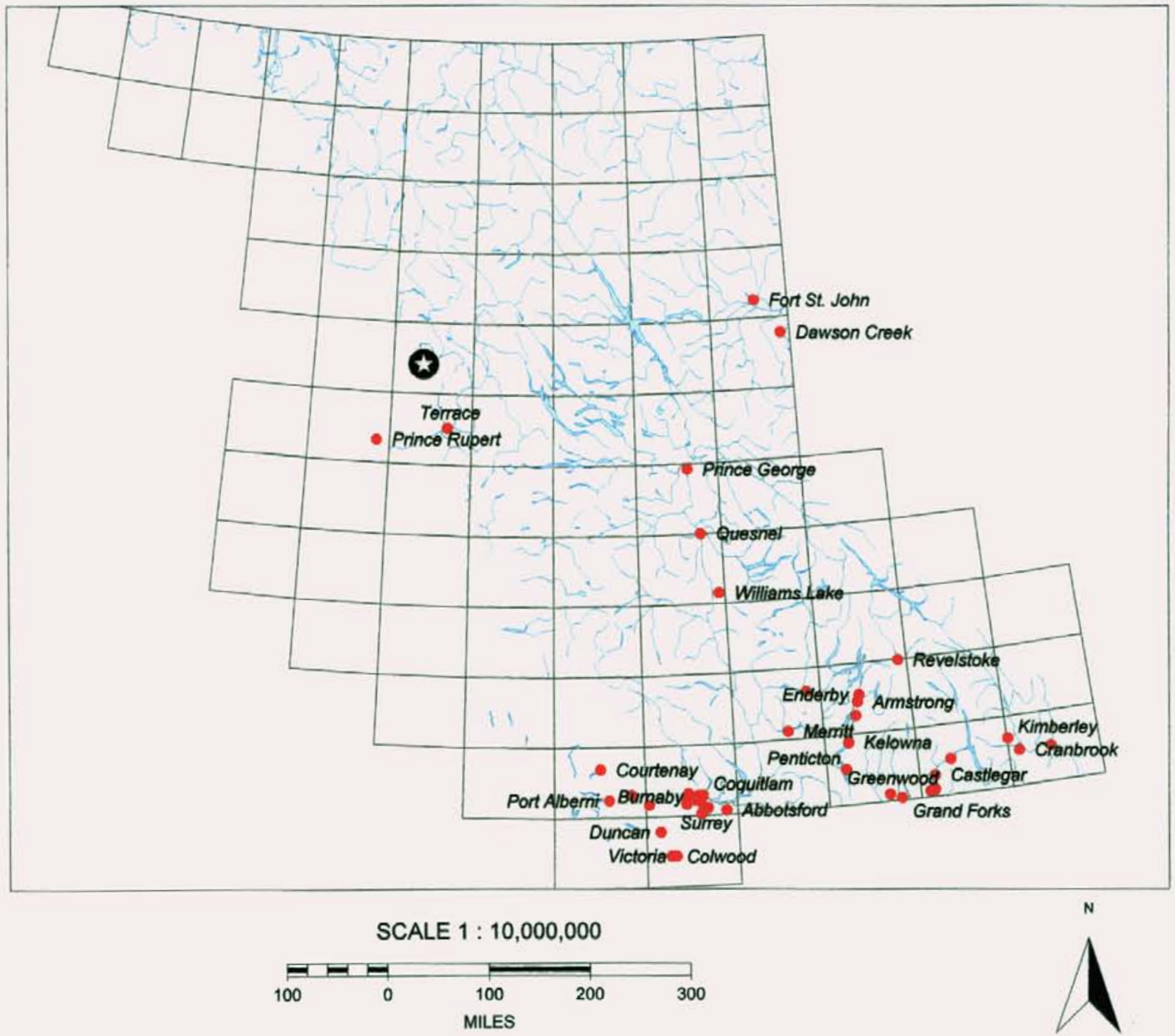


**FIGURE 1. LOCATION - VMS-LGY PROPERTY, NW B. C**

# THE VMS PROPERTY (TOPOGRAPHIC MAP)

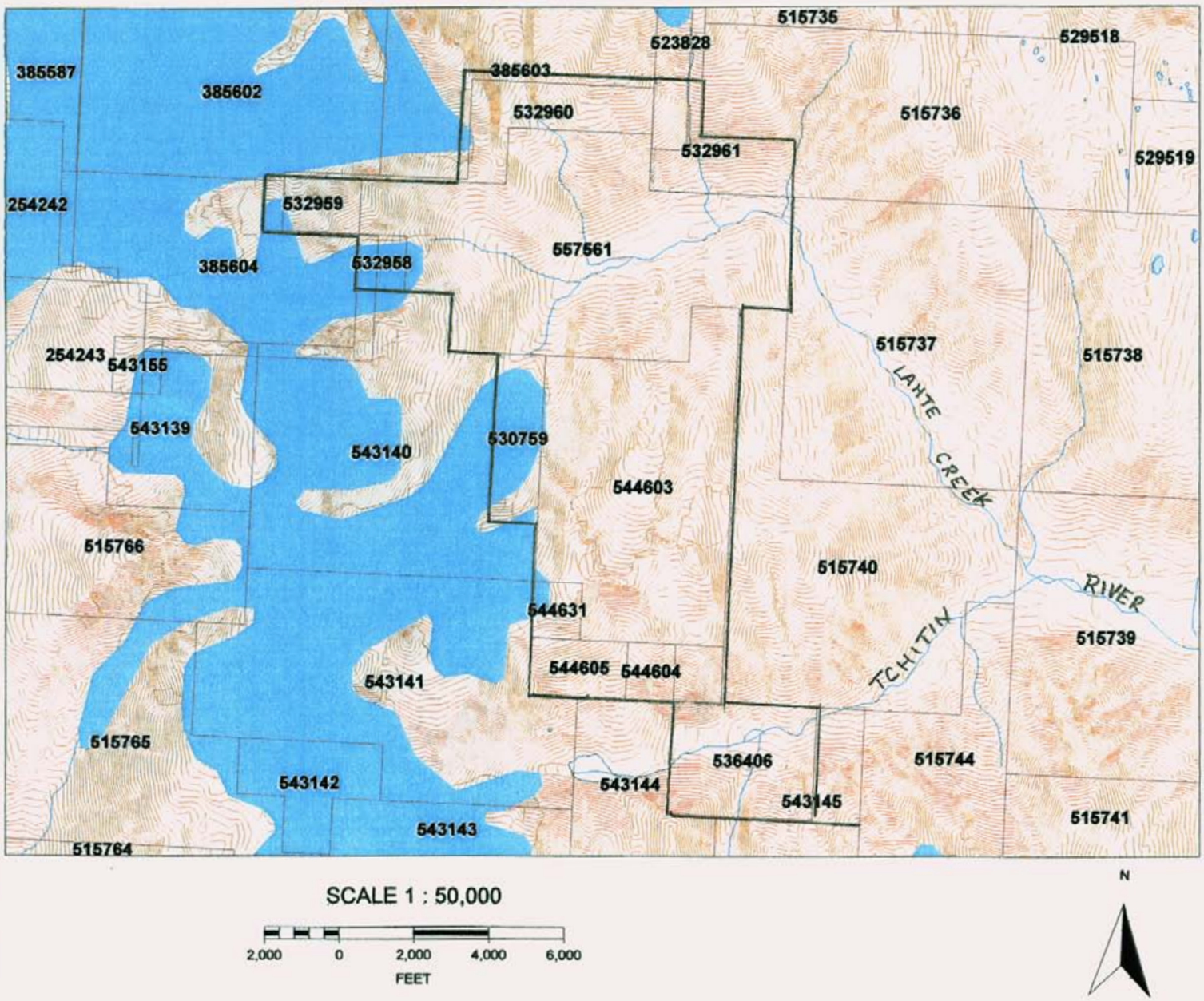


**FIGURE 2. LOCATION - MINERAL TENURES - VMS-LGY PROPERTY, NW B.C.**

| Claim Name | Tenure No. | Expiry Date* | Recorded Owner | Size (hectares) |
|---|---|---|---|---|
| VMS 1 | 532958 | 2010 October 29 | Fayz Yacoub | 18.265 |
| VMS 2 | 532959 | 2010 October 29 | Fayz Yacoub | 36.526 |
| VMS 3 | 532960 | 2010 October 29 | Fayz Yacoub | 91.297 |
| VMS 4 | 532961 | 2010 October 29 | Fayz Yacoub | 73.042 |
| LGY | 536406 | 2010 October 29 | Fayz Yacoub | 109.689 |
| VMS 5 | 544603 | 2010 October 29 | Fayz Yacoub | 365.443 |
| VMS 7 | 544604 | 2010 October 29 | Fayz Yacoub | 18.278 |
| VMS 8 | 544605 | 2010 October 29 | Fayz Yacoub | 36.557 |
| VMS 9 | 544606 | 2010 October 29 | Fayz Yacoub | 18.278 |
| VMS 10 | 544631 | 2010 October 30 | Fayz Yacoub | 18.278 |
| VMS | 557561 | 2011 October 29 | Fayz Yacoub | 456.602 |

Table 1. Claims

*pending acceptance of assessment work filed (Event No. 4174370).

The 2007 program of field work was designed and managed by Fayz Yacoub, P. Geo., who also prospected parts of the claims and sampled various outcroppings and float boulders. Mr. Yacoub is the vendor of the claims to Golden Dawn Minerals Ltd. and had in previous years carried out field work on the claims and had researched the history and geology of the area. Field supervision was provided by Murray Gauthier, a geological technician with extensive experience in technical support work in active mines and in mineral exploration. A two person field crew employed by Geotronics Consulting Inc. completed various geochemical and geophysical surveys. Samples, at the conclusion of field work, were taken by company vehicle directly to the analytical laboratory in Vancouver, B. C., by Mr. Gauthier. Samples were at all times in the possession of ON Track and Geotronics personnel and are believed to be both representative of materials sampled and uncontaminated by any "outside" factors.

Lahte Creek occupies a narrow, steep-sided valley that was, in relatively recent times, occupied by glaciers that now exist as remnant tongues of an icecap that extends from Kinskuch Lake and Lavender Peak in the north to Tchitin Peak at its south extreme. The valley is thickly forested with hemlock and spruce and has heavy undergrowth of devil's club (*Oplopanax horridus*), slide alder and berry bushes. Winter snow pack is very heavy and the slopes are prone to avalanches and many avalanche scars are witness to events that destroy and/or inhibit tree growth. Summers are typical of the North Coast of British Columbia: warm and wet.

The Alice Arm district has very little infrastructure of value to mineral explorers. Small float-equipped 'planes can land on nearby lakes and the townsite of Kitsault, a former mine, is accessed from the Nass River valley by road. Provincial highway 37 that passes from Kitwanga to the Alaska Highway in Yukon, lies 40 km east of the VMS-LGY claims. Alice Arm, a fiord-like part of Observatory Inlet, is navigable and the silver mines were historically accessed by coastal ships that called at the town of the same name. A powerline that was built into the area to service the Kitsault mine and was later extended to Stewart, is potentially a benefit. Currently the district is the scene of several mineral exploration projects that may in time become mines and then will require improved facilities. Notable exploration sites include Homestake Ridge and the Ajax molybdenum property.

The VMS and LGY claims are within the traditional territory of Nishga and Gitksan First Nations.

## 2.0 REGIONAL GEOLOGICAL SETTING

The VMS and LGY claims are in Mesozoic age terrain comprising members of the primarily sedimentary Stuhini Group of Upper Triassic age and Hazelton Group of Jurassic age (Figures 3, 3a). Betty Creek formation purplish dark sedimentary rocks of Lower Middle Jurassic age were observed at higher elevations in the vicinity of mineral tenure 536406 (LGY area). Stocks of monzonitic and quartz monzonitic crystalline rocks of Eocene age occur in nearby areas. Rocks of the Coast Plutonic Complex (Coast Intrusions) lie far to the west of the area. Dominant structural trends are broadly oriented northerly but farther north clastic sedimentary rocks of the Salmon River formation are very strongly folded.

Prospectors have been attracted to the Lahte Creek area by strongly coloured zones of phyllitic, hornfelsic and schistose alteration that occur, variously, in proximity to intrusive plugs and in zones of shearing. The Torbrit and Dolly Varden mines in Kitsault River valley occur in one of the larger hornfels and cataclasite zones and the Kitsault (Lime Creek) molybdenite mine, in an annular hornfels zone centered on a small monzonite body.

Figure 4 of this report is a large scale aeromagnetic survey map at scale 1:50,000. It shows ambiguous magnetic data: higher elevation areas, including much of the VMS property, show high magnetic characteristics (warm orange-yellow shades) whereas areas of lower relief to the east show much weaker magnetic characteristics (green to blue shades). It is not apparent if it is prudent to assume that there is also a basic geological factor being displayed.

## 3.0 GEOLOGY OF THE VMS AND LGY CLAIMS

The VMS-LGY claims have not been geologically mapped: all evaluation has been of a reconnaissance nature. Mapping is awkward due to thick slide alder growth and morainal glacial debris on lower slopes and elsewhere due to steep areas that are hazardous and difficult to access and traverse.

The VMS and LGY claims that are currently being explored by Golden Dawn Minerals Ltd. are underlain by Hazelton Group tuffaceous volcanic formations, pyroxene- and plagioclase-porphyritic flows, and interbedded felsic volcanic rocks and arkosic sedimentary members. Bowser Lake Group marine-sedimentary rocks may be present at higher elevations to the east of the principal area of prospecting interest. Regional tectonics have imposed low-grade greenschist facies metamorphism: known mineral zones comprise areas of moderate to strong foliation with sericitization, pyritization and pyrrhotitization plus base metal sulphides and, occasionally, magnetite.

The entire Kitsault-Alice Arm region has been geologically mapped by various federal and provincial scientists whose work has been published in technical papers and other reports. Golden Dawn has undertaken prospecting, geochemical and geophysical surveys and rock sampling but has not mapped the claims.

The subject claims are mostly covered by vegetation that inhibits prospecting: lower slopes have glacial and avalanche debris with slide alder and devil's club; valley walls between 200 and 300 metres above the main creek comprise a very steep escarpment of virtually continuous outcroppings. Below that level, outcroppings may be found as small exposures, and above, steep, grassy slopes have an abundance of outcrops. Much of the rock sampling work described in this report was directed to the so-called

# THE VMS PROPERTY ( GEOLOGY MAP)

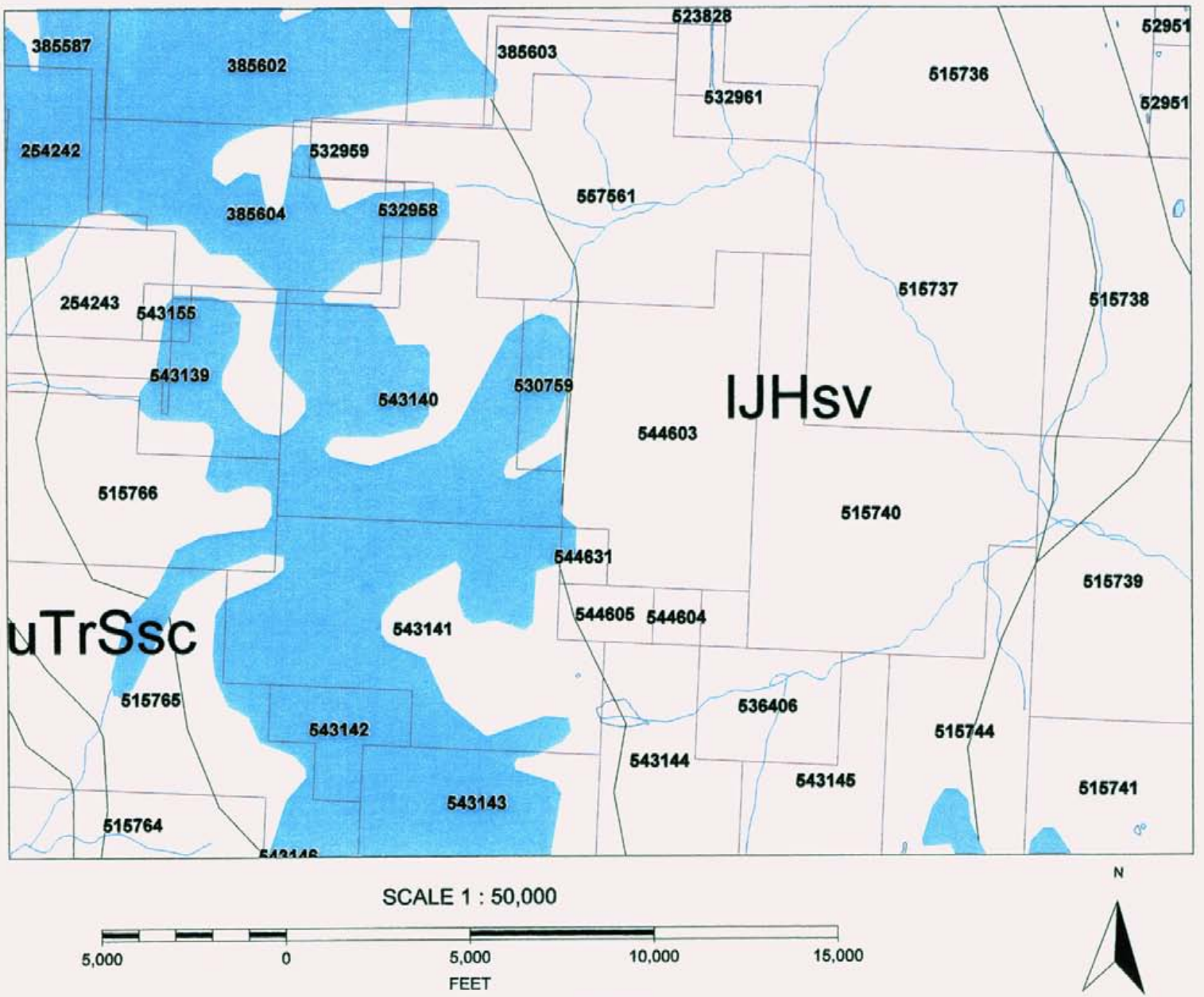


**FIGURE 3. PROPERTY GEOLOGY - VMS-LGY PROPERTY, NW B. C.**
**(from MapPlace website)**

# B.C. Geology Legend

**Map Code: lJHsv**
Age: Early to Middle Jurassic
Group: Hazelton Group
Description: Local flow banded rhyolite domes and interbeds of limy siltstone and limestone containing Toarcian macrofossils; intense epidote and chlorite alteration in places; c. green, brown and maroon weathering mafic and felsic volcanic clast conglomerate,

**Map Code: lJHvc**
Age: Lower Jurassic
Group: Hazelton Group
Formation: Intermediate Volcanic Unit
Description: Green and maroon andesite pyroclastic rocks, feldspar-hornblende andesite porphyry, maroon siltstone, sandstone and conglomerate, minor limestone

**Map Code: mJKB**
Age: Middle Jurassic to Late Cretaceous
Group: Bowser Lake Group
Description: Sandstone, siltstone, argillite, and conglomerate, minor coal (Upper Oxfordian)

**Map Code: muJHs**
Age: Middle Jurassic to Upper Jurassic
Group: Hazelton Group
Description: Marine, shallow water feldspathic sandstone,siltstone, argillite, wacke, locally glauconitic and limy,minor ash, crystal and lapilli tuff, volcaniclastics, limestone, Aalenian to Bajocian

**Map Code: uTrSsc**
Age: Upper Triassic
Group: Stuhini Group
Description: Augite phyric tuffaceous sandstone, common sharpstone conglomerate; black siltstone, argillite, shale, black wacke, sandstone, limestone.

**Map Code: uTrSvb**
Age: Upper Triassic
Group: Stuhini Group
Description: Coarse augite-andesite flows and pyroclastics, derived volcaniclastic rocks and related subvolcanic intrusions; minor greywacke, siltstone and polymictic conglomerate (104G). Like Shonektaw Formation in Quesnellia (104J).

***This Database Last Updated: January 2004.***

*British Columbia Ministry of Energy and Mines*
*Geological Survey Branch*

**FIGURE 3a. Legend to Accompany Figure 3.**

# THE VMS PROPERTY ( REGIONAL AEROMAG SURVEY MAP)

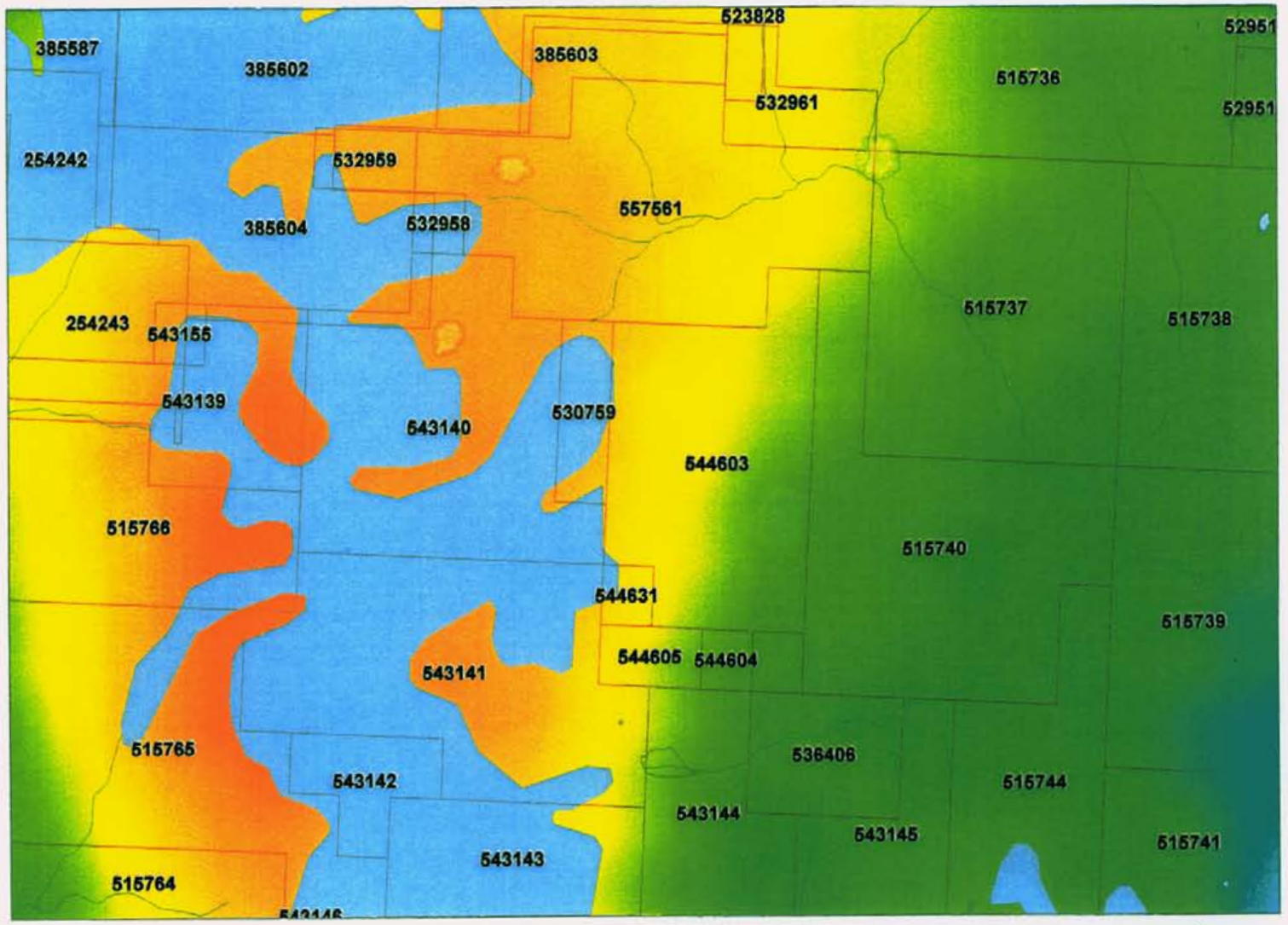


**FIGURE 4. REGIONAL AEROMAGNETIC SURVEY DATA**

# The VMS Property (Sample Location Map)

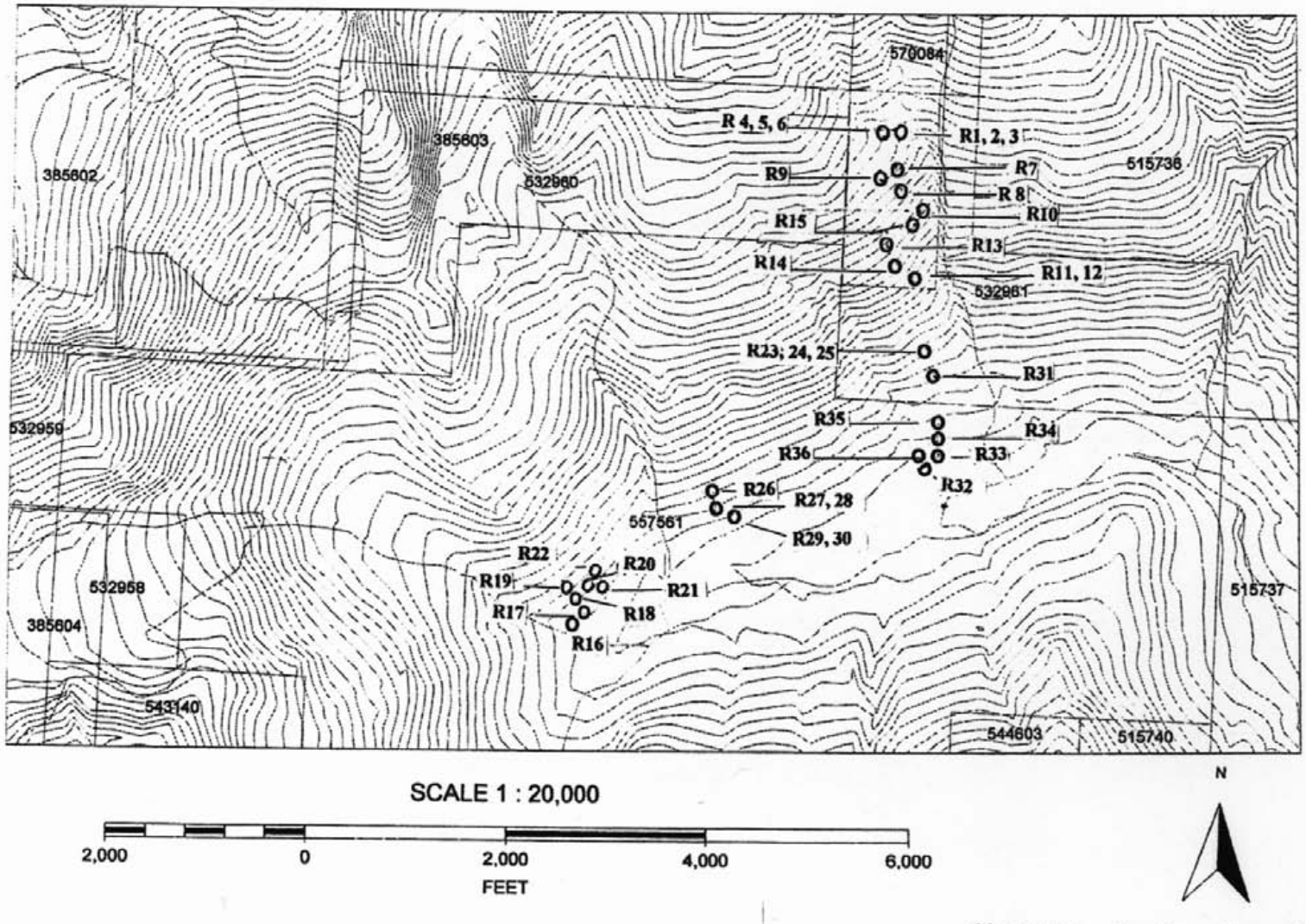


Fig. 5

Sketch Showing Locations of Rock Samples
VMS and LGY Property
Skeena M. D., B. C.

To accompany Report of Work
January 21, 2008.

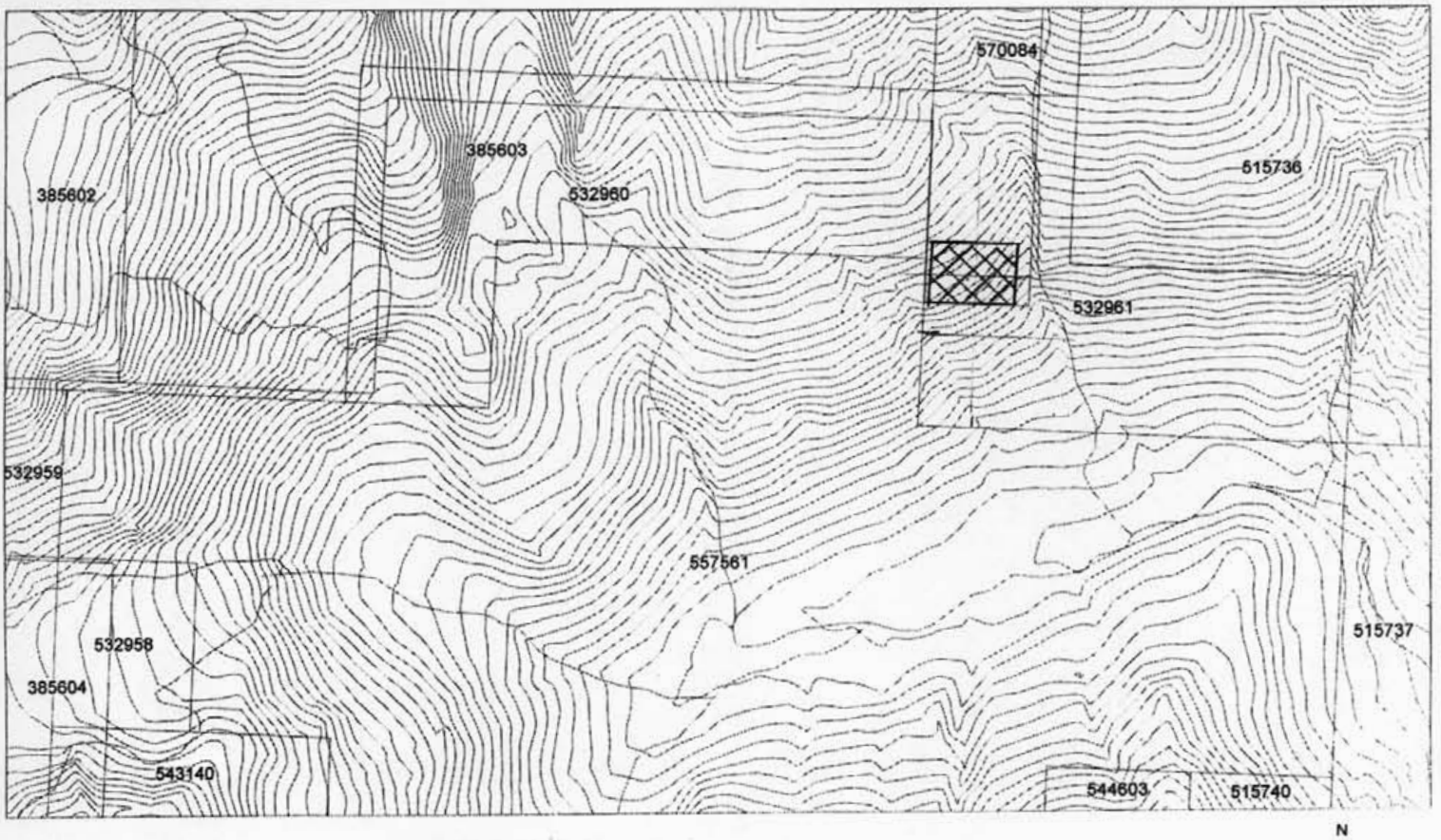


Fig. 6

Sketch Showing Location of MMI and Geophysical Survey Grid
VMS and LGY Property
Skeena M. D., B. C.

To accompany Report of Work
January 21, 2008

escarpment part of the claims and in particular to the central part of VMS 3 claim. The survey crew established a grid of slashed and flagged lines immediately below the area of extensive outcroppings (see Geotronics report in Appendix 1).

The dominant rock formations are weakly metamorphosed clastic sedimentary rocks and dark green to black coloured andesite that is variously feldspar and pyroxene porphyritic. Bedding is seldom observed but was judged on the basis of foliation and trends of alteration zones, to be vaguely striking northerly and dipping gently to -40° easterly. Narrow zones of fracturing are occupied by quartz and calcite veins that also contain small amounts of sulphide minerals, including pyrite, pyrrhotite, and chalcopyrite, sphalerite and, very occasionally, galena.

## 4.0 ROCK AND SOIL SAMPLING

### 4.1 Conventional Samples and Determinations

Fifty-six rock samples taken by members of the Golden Dawn exploration crew were analysed by the Acme Analytical Labs. Group 1D procedure: hot aqua regia digestion followed by induced coupled plasma – emission spectroscopy (ICP-ES) detection of 30 elements and Acme's "3D" method of gold determination by fire assay fusion and ICP-ES. Certificates of analyses (VAN07000976.2) and (A707248) and sample descriptions, in part provided by Mr. Yacoub, are attached to this report as Appendix 2.

Seven of the rock samples that returned major metal analyses near or above the upper detection limit by "Group 1D" were selected for more precise analysis by the "Group 7AR" multi-element assay method. Copper values as high as 2.556%, lead 2.44%, zinc 5.05%, silver 11 gm/mt and gold 3.6 gm/mt, were reported. The pertinent certificate of analysis (Acme file no. A707248) is included in Appendix 2.

Thirteen stream sediment samples were submitted to Acme Labs and analysed by the same procedures as were the rock samples. Certificates of analyses (VAN07000977.1) are attached to this report as part of Appendix 2.

Acme Labs performed elaborate quality control analyses to ensure integrity of sample data and the quality control reports are included in the Appendices.

The various crew members recorded sample location sites using GPS technology and hand-written notes. Some sample sites were inadequately recorded with the result that their locations are not precisely known.

### 4.2 MMI (Mobile Metal Ion) Sampling

Soil samples for purposes of MMI determination were taken at, variously, 25 and 50 metre intervals on the VMS grid of slashed, measured and flagged lines. A total of 75 samples were obtained: samples were taken in accordance with the recommended methods: 250 to 300 grams of sample were collected consistently at "...10 to 25 cm below the living organics, regardless of which horizon this depth

corresponds to" (SGS website). Samples were delivered to the SGS laboratory and processed by a proprietary method "The MMI Process™" in which a weak extraction of metal ions is achieved by treating the sample in a multi-component solution. High sensitivity ICP-MS analysis is followed by "...an innovative interpretation using MMI response ratios" (SGS website). The response ratio for each metal is calculated by first determining the background value (definition by MMI Technology) which is defined as the average value of the lowest quartile (25%) of the data; that value is then divided into each sample value and the resulting number is rounded to a whole number. Response ratios of 2 or less are considered low or "background" samples. RRs greater than 5 may be "significant", depending upon characteristics of the source area, and may be "anomalous". Histograms showing response ratios for copper, lead, zinc, silver and gold on a line-by-line basis are included in Appendix 1 of this report as part of the comprehensive exploration report prepared by Geotronics Consulting Inc.

David Mark, P. Geo., a principal of Geotronics Consulting Inc., has plotted the MMI data and prepared a preliminary assessment of the results obtained:

> *The MMI sampling revealed four anomalies that may reflect base metal mineralization with gold and silver values. All four anomalies strike northerly and occur around and within the magnetic high that is likely reflecting basic volcanics. There is also some correlation with VLF-EM conductors that, as mentioned above, may be reflecting sulphide mineralization and/or associated fault and shear zones (*Geotronics report*).*

### 4.3 Stream Sediment Samples

Sixteen stream sediment samples from the VMS-LGY property were analysed by Acme Labs's "Group 1D", induced coupled plasma-emission spectrographic, procedure. 0.5 gram sample splits were leached in hot aqua regia and the resulting solution was then analysed for 30 elements.

Analytical data are being plotted and will in due course be correlated with prospecting information, rock sample data, and grid-based MMI, VLF-EM and magnetic data but the plots are not included with this report..

### 4.4 Magnetometer Survey

A magnetometer survey was completed by Geotronics Consulting Inc. over the VMS claim (tenure no. 557561) grid using two model G-856 proton precession magnetometers manufactured by Geometrics Inc.. Observations were recorded at 12.5 metre intervals on 3,275 metres of the southernmost east-west survey lines with a separation of 50 metres. Data were plotted and contoured using Geosoft software and are included on Figures * (plan view) and * (profile view) of the Geotronics report.
GP-1.a GP-1.b

David Mark, P. Geo., geophysicist, of Geotronics Consulting Inc. plotted and analysed the magnetic data and provided the following comments:

> *The background for the magnetic survey ....is about 56,000 nT. In general the data is fairly quiet...*

*The main feature of the magnetic survey is a broad magnetic high striking northerly through the center of the grid. It has a magnetic field of 200 to 300 nT above background. This high is probably reflecting a basic volcanic rock-type such as basalt, or possibly andesite.*

*A magnetic low occurs on the west side of the grid and may be reflecting sediments.*

*A lineation consisting of a series of magnetic lows striking in a northeasterly direction occurs within the northwest corner of the survey area. This is suggestive of a fault* (Geotronics report).

### 4.5 VLF-EM Survey

A VLF-EM survey was completed by Geotronics Consulting Inc. over the VMS claim (tenure no. 557561) grid using a "Wadi" instrument manufactured by ABEM Instrument AB of Sweden tuned to the 24.8 kHz transmitter located at Jim Creek, Washington, USA. Observations were recorded at 12.5 metre intervals on 2,775 metres along six survey lines on 50 metre separation. VLF-EM data were contoured and plotted using Geosoft software and a plan view is included in the Geotronics report. GP-2

David Mark, P. Geo., geophysicist, of Geotronics Surveys Ltd., has analysed the VLF-EM data and provided the following comments:

*The VLF-EM survey data is fairly noisy showing a series of conductors striking, for the most part, in a northerly direction. The conductors may be reflecting faults, shears, fracture zones, and/or sulphide mineralization. The noisiness is probably due to the rough terrain* (Geotronics report).

## 5.0 LGY AREA OF VMS-LGY PROPERTY

The LGY portion of the Lahte Creek property, principally located on mineral tenure no. 536406, was examined and prospected in reconnaissance fashion. Five rock samples, GL-07 R1 to GL-07 R5, were taken from "float" boulders and outcroppings located close to a small creek that passes through the claim. Samples Gl-07 R1, R2 and R3 returned elevated values in lead, zinc and silver. There is slight uncertainty concerning the location of samples and one or more may have been taken from adjoining tenures.

The LGY area is precipitous and lies close to the toe of a glacier. Slopes are steep and treacherous and several gossaned zones could not be accessed by the field crew. Properly equipped personnel that have experience in traversing such terrain would be better able to prospect and sample the area.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

The 2007 program of field work on the VMS-LGY property at Lahte Creek, east of Alice Arm, B. C., included soil, rock and stream sediment sampling and magnetic and VLF-EM surveys. Several of the rock samples returned elevated values in gold, silver, zinc and lead. Data have been compiled and a preliminary evaluation has been undertaken. Results are considered to be encouraging and further work is recommended.

## 7.0 STATEMENT OF EXPENDITURES

The following expenditures were incurred in completing the work that is described in the foregoing sections of this report:

1. Project supervision and geological reconnaissance
   Fayz Yacoub - 12 days @ $500/day + 6% GST.....$ 6360.00
   Erik Ostensoe - 4 days @ $500/day + 6% GST.....$ 2120.00

2. Field manager - M. Gauthier, geotech - 16 days @ $400/day + 6% GST.....$ 6784.00

3. Geotronics Consulting Inc. - field charges, including mob and demob from Vancouver and return, (Golden Dawn's share), instrument rental, lab tests, courier charges - per invoice included in Geotronics technical report... ...$19,870.00
   data reduction and report preparation by senior geophysicist.. .....$ 3,350.00

5. Transportation
   Vehicle rental - Gauthier's small SUV - twenty days @ $50/day.....$ 1,000.00
   Gasoline consumed - Kamloops-Stewart-Vancouver-Kamloops + local.... $ 350.00
   Air fares to position On Track personnel en route to Stewart, B. C.....$ 800.00
   Helicopter services - 38.6 hours @ $970/hr + fuel surcharge + taxes..... $39,680.00

6. Accommodation and Living Expenses
   King Edward Hotel and assorted restaurants, Stewart, B. C., accommodation and meals for Golden Dawn, On Track and Geotronics Consulting Inc. personnel - 49 person-days @ $90/day.....$ 4410.00

7. Analytical Charges
   Acme Analytical Labs - 16 analyses - ICP @ $18.75/sample..... $ 300.00
   - 56 assays @ $25/sample.....$ 1400.00

8. Consultation and Report Preparation
   Erik Ostensoe, P. Geo. 12 days @ $500/day + GST @ 5%.....$ 6,300.00
   Photocopying, other charges incurred for reports.....$ 80.00

**Total amount of charges directly related to VMS-LGY project.....$92,804.00**

Of the above-detailed amount $14,907 is applied to the VMS-LGY property claims and $77,897 is assigned to Fayz Yacoub's PAC.

Prepared from data supplied by Golden Dawn, Fayz Yacoub and Geotronics Consulting Inc.

## 8.0 STATEMENT OF QUALIFICATIONS

The accompanying report was assembled by Erik Ostensoe, P. Geo. from field observations in the period August 27 - 30, 2007, and from information and reports provided by Mr. Fayz Yacoub, P. Geo., vendor and property manager, and David G. Mark, P. Geo., geophysicist, principal of Geotronics Consulting Inc.

Erik Ostensoe, P. Geo., is a consulting geologist with office and residence in Vancouver, B. C. He has worked as a mineral explorationist for more than forty years and is familiar with the VMS Project area and the Stewart and Alice Arm mining districts and with volcanogenic massive sulphide deposits and other mineral deposits of economic significance that may be found in the Project area.

**APPENDIX 1.**

Exploration Report
on
Geophysics and Geochemistry
on a grid within the
Western Boulder Zone
VMS Property,
Skeena Mining Division,
British Columbia

By

David G. Mark, P. Geo.
GEOTRONICS CONSULTING INC.
Surrey, British Columbia

January 9, 2008.

# EXPLORATION REPORT

# ON

# GEOPHYSICS and GEOCHEMISTRY

# On a Grid

# Within the

# WESTERN BOULDER ZONE

# VMS PROPERTY

# LAHTE CREEK, STEWART AREA

# SKEENA MINING DIVISION, BRITISH COLUMBIA

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**WRITTEN FOR:** **GOLDEN DAWN MINERALS INC.**
3929 West 30th Avenue,
Vancouver, B.C.
V6S 1X2

**WRITTEN BY:** David G. Mark, P.Geo.
**GEOTRONICS CONSULTING INC.**
6204 – 125th Street
Surrey, British Columbia V3X 2E1


**DATED:** January 9, 2008

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# LIST OF ILLUSTRATIONS

| | | |
|---|---|---|
| Line 65400N | n/a | H-8 |
| Line 65450N | n/a | H-9 |
| Line 65500N | n/a | H-10 |
| Line 82400E (Base Line) | n/a | H-11 |

**Copper, Molybdenum, Cobalt, Nickel, Cerium**

| | | |
|---|---|---|
| Line 65050N | n/a | H-12 |
| Line 65100N | n/a | H-13 |
| Line 65150N | n/a | H-14 |
| Line 65200N | n/a | H-15 |
| Line 65250N | n/a | H-16 |
| Line 65300N | n/a | H-17 |
| Line 65350N | n/a | H-18 |
| Line 65400N | n/a | H-19 |
| Line 65450N | n/a | H-20 |
| Line 65500N | n/a | H-21 |
| Line 82400E (Base Line) | n/a | H-22 |

# EXPLORATION REPORT

# ON

# GEOPHYSICS and GEOCHEMISTRY

# On a Grid

# Within the

# WESTERN BOULDER ZONE

# VMS PROPERTY

# LAHTE CREEK, STEWART AREA

# SKEENA MINING DIVISION, BRITISH COLUMBIA

## INTRODUCTION AND GENERAL REMARKS

This report discusses survey procedure, compilation of data, interpretation methods and the results of MMI soil sampling, magnetic surveying and VLF-EM surveying carried out on the VMS Property. The property is being optioned by Golden Dawn Minerals Inc, who is also the operator.

The exploration work was carried out by a Geotronics crew of two men, during the period of August 14th to 30th, 2007. The amount of work carried out was as follows:

| | |
|---|---|
| Grid emplacement | 4,475 meters |
| Magnetic Survey | 3,275 meters |
| VLF-EM Survey | 2,775 meters |
| Soil Sampling | 75 samples along 2,975meters |

The purpose of the exploration program on this property is to look for gold mineralization as well as VMS-style base metal sulphide deposits.

The purpose of the magnetic survey is to map rock types and geological structure and that of the VLF-EM survey is to map structure as well as possible sulphide veins.

The purpose of the MMI soil sampling is to look for mineralization directly. MMI stands for mobile metal ions and describes ions, which have moved in the weathering zone and that are weakly or loosely attached to surface soil particles. MMI, which requires special sampling and testing techniques, are particularly useful in responding to mineralization at depth probably in excess of 700 meters. It also is not affected by glacial till, while standard soil sample techniques are. MMI is characterized in having a high signal to noise ratio and therefore can provide accurate drill targets. However, it may also move along fault lines and therefore could show the causative source to be laterally moved from where it actually is.

## A. Grid Emplacement

The grid was emplaced using the last four or five digits of the UTM coordinates with the baseline being in a due UTM north direction and the survey lines in a due UTM east direction. Pickets were placed on the baseline every 25 meters over a 925-meter length. Ten survey lines with a total survey length of 3,600 meters were emplaced with the line spacing being 50 meters and the station spacing being 25 meters. The stations were marked with pickets as well as blaze orange flagging and blue flagging.

The length of many of the survey lines was limited due to the rough topography.

## B. Magnetic Survey

### (a) Instrumentation

The magnetic survey was carried out with two model G-856 proton precession magnetometers manufactured by Geometrics of San Jose, California. One was used as a base station and the other was used as the field unit. This instrument reads out directly in nanoTeslas(nT) to an accuracy of ±1 nT, over a range of 20,000 - 100,000 nT. The operating temperature range is -40° to +50° C, and its gradient tolerance is up to 3,000 gammas per meter.

### (b) Theory

Only two commonly occurring minerals are strongly magnetic, magnetite and pyrrhotite and therefore magnetic surveys are used to detect the presence of these minerals in varying concentrations, as follows:

- Magnetite and pyrrhotite may occur with economic mineralization on a specific property and therefore a magnetic survey may be used to locate this mineralization.
- Different rock types have different background amounts of magnetite (and pyrrhotite in some rare cases) and thus a magnetic survey can be used to map lithology. Generally, the more basic a rock-type, the more magnetite it may

contain, though this is not always the case. In mapping lithology, not only is the amount of magnetite important, but also the way it may occur. For example, young basic rocks are often characterized by thumbprint-type magnetic highs and lows.

- Magnetic surveys can also be used in mapping geologic structure. For example, the action of faults and shear zones will often chemically alter magnetite and thus these will show up as lineal-shaped lows. Or, sometimes lineal-shaped highs or a lineation of highs will be reflecting a fault since a magnetite-containing magmatic fluid has intruded along a zone of weakness, being the fault.

### (c) Survey Procedure

Readings of the earth's total magnetic field were taken every 12.5 meters along the eight southernmost east-west survey lines with a separation of 50 meters. The total amount of surveying was 3,275 meters.

The diurnal variation was monitored in the field by a base station.

### (d) Data Reduction

The data was input into a computer. Using Geosoft software, it was next plotted with 56,600 nT (approximately the background) subtracted from each posted value and contoured at an interval of 50 nT on a base map, GP-1a, at a scale of 1:5,000. In addition, the data was profiled on a separate base map, GP-1b, also at a scale of 1:5,000 and with a profile scale of 1 cm = 150 nT. For the profile map, the base magnetic value used was 56,600 nT.

## C. VLF-EM Surveys

### (a) Instrumentation

The VLF-EM survey was carried out with a memory VLF-EM receiver, model Wadi, manufactured by ABEM Instrument AB of Sundbyberg, Sweden. This instrument is designed to measure the electromagnetic component of the very low frequency field (VLF-EM), which for this survey is transmitted at 24.8 kHz from Jim Creek, which is east of Arlington in the state of Washington.

### (b) Theory

In all electromagnetic prospecting, a transmitter induces an alternating magnetic field (called the primary field) by having a strong alternating current move through a coil of wire. This primary field travels through any medium and if a conductive mass such as a sulphide body is present, the primary field induces a secondary alternating current in the conductor, and this current in turn induces a secondary magnetic field. The receiver picks up the primary field and, if a conductor is present, the secondary field distorts the

primary field. The fields are expressed as a vector, which has two components, the "in-phase" (or real) component and the "out-of-phase" (or quadrature) component

Since the fields lose strength proportionally with the distance they travel, a distant conductor has less of an effect than a close conductor. Also, the lower the frequency of the primary field, the further the field can travel and therefore the greater the depth penetration.

The VLF-EM uses a frequency range from 13 to 30 kHz, whereas most EM instruments use frequencies ranging from a few hundred to a few thousand Hz. Because of its relatively high frequency, the VLF-EM can pick up bodies of a much lower conductivity and therefore is more susceptible to clay beds, electrolyte-filled fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies of too low a conductivity for other EM methods to pick up. Consequently, the VLF-EM has additional uses in mapping structure and in picking up sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. (In places it can be used instead of IP). However, its susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and, thus, VLF-EM preferably should not be interpreted without a good geological knowledge of the property and/or other geophysical and geochemical surveys.

### (c) Survey Procedure

The VLF-EM readings were taken along with the magnetic survey using the same grid but the survey amount was less at 2,775 meters along six survey lines.

Readings of the electromagnetic field from the transmitter station, Seattle (Jim Creek) at 24.8 kHz, were taken every 12.5 m stations on the 50-meter separated lines. The direction to the station was south-southeasterly which is close to an ideal direction for this particular grid.

### (d) Compilation of Data

The VLF-EM data were downloaded into a computer and subsequently plotted and contoured using Geosoft software onto a base map, GP-2, at a scale of 1:5,000.

## D. MMI Soil Sampling

### (a) Sampling Procedure

The sampling procedure was to first remove the organic material from the sample site ($A_0$ layer) and then dig a pit over 25 cm deep with a shovel. Sample material was then scraped from the sides of the pit over the measured depth interval of 10 centimeters to 25 centimeters. About 250 grams of sample material was collected and then placed into a plastic Zip-loc sandwich bag with the sample location marked thereon. The 111 samples were then packaged and sent to SGS Minerals located at 1885 Leslie Street, Toronto, Ontario. (This is only one of two labs in the world that do MMI analysis, the other being in Perth, Australia where the MMI method was developed.)

## (b) Analytical Methods

At SGS Minerals, the testing procedure begins with weighing 50 grams of the sample into a plastic vial fitted with a screw cap. Next is added 50 ml of the MMI-M solution to the sample, which is then placed in trays and put into a shaker for 20 minutes. (The MMI-M solution is a neutral mixture of reagents that are used to detach loosely bound ions of any of the 38 elements from the soil substrate and formulated to keep the ions in solution.) These are allowed to sit overnight and subsequently centrifuged for 10 minutes. The solution is then diluted 20 times for a total dilution factor of 200 times and then transferred into plastic test tubes, which are then analyzed on ICP-MS instruments.

Results from the instruments for the 44 elements are processed automatically, loaded into the LIMS (laboratory information management system which is computer software used by laboratories) where the quality control parameters are checked before final reporting.

## (c) Compilation of Data

Nine elements, or metals, were chosen out of the 44 reported on and these were silver, lead, zinc, copper, gold, cobalt, molybdenum, nickel and cerium, with all values being in parts per billion (ppb). The mean background value was calculated for each of the nine metals, as shown in the lower table, and this number was then divided into the reported value for that metal to obtain a figure called the response ratio. Two stacked histograms were then made of the response ratios for the nine metals, for each of the eleven lines, which includes the base line, one for copper, lead, zinc, silver, and gold, and the second stacked histogram for copper, molybdenum, cobalt, nickel, and cerium.

| Cu | Zn | Mo | Au | Co | Ni | Ce | Pb | Ag |
|---|---|---|---|---|---|---|---|---|
| 396 | 516 | 2.5 | 0.3 | 17 | 46 | 19 | 222 | 19 |

One plan map was also made for each of the nine metals, each at a scale of 1:5000 with the data being plotted and contoured at a logarithmic contour interval. These were given the figure numbers GC-1 to GC-9.

## E. DISCUSSION OF RESULTS

The background for the magnetic survey, as mentioned above, is about 56,600 nT. In general the data is fairly quiet as can especially be seen on the magnetic profiles.

The main feature of the magnetic survey is a broad magnetic high striking northerly through the center of the grid. It has a magnetic field of 200 to 300 nT above background. This high is probably reflecting a basic volcanic rock-type such as basalt, or possibly andesite.

A magnetic low occurs on the west side of the grid and may be reflecting sediments.

A lineation consisting of a series of magnetic lows striking in a northeasterly direction occurs within the northwest corner of the survey area. This is suggestive of a fault.

The VLF-EM survey data is fairly noisy showing a series of conductors striking, for the most part, in a northerly direction. The conductors may be reflecting faults, shears, fracture zones, and/or sulphide mineralization. The noisiness is probably due to the rough terrain.

The MMI sampling revealed four anomalies that may reflect base metal mineralization with gold and silver values. All four anomalies strike northerly and occur around and within the magnetic high that is likely reflecting basic volcanics. There is also some correlation with VLF-EM conductors that, as mentioned above, may be reflecting sulphide mineralization and/or associated fault and shear zones.

The anomalies have been labeled by the upper case letters, A to D, and are described as follows:

**(a)** Anomaly A has a minimum strike length of 200 meters being open to the north and to the south. It contains very strong silver, lead, and zinc values as well as gold and copper values. The strength of the anomaly strongly suggests it is reflecting vein-type mineralization. It occurs within the magnetic high indicating the host rock is basic volcanics.

**(b)** Anomaly B occurs to the immediate west of A and consists of strong gold, silver, lead, zinc, molybdenum, nickel, and copper values. It has a minimum strike length of 450 meters being open to both the north and south. The anomaly is also strongly indicative of base metal mineralization with gold and silver values. It occurs along the western edge of the magnetic high suggesting the possible mineralization is contact-related.

**(c)** Anomaly C occurs about 150 meters to the east of A and consists of values in silver, copper, gold, lead and zinc. It has a minimum strike length of 150 meters, also being open to both the north and south. This anomaly occurs along the eastern edge of the magnetic high, therefore indicating the causative source is contact-related.

**(d)** Anomaly D is primarily a molybdenum anomaly occurring 275 meters to the west of anomaly A occurring at the western edge of the survey area, therefore being seen only a few lines. It also contains anomalous values in nickel and copper. This anomaly has a minimum strike length of 450 meters, being open to the north and south. It occurs within the magnetic low within the western side of the grid suggesting the host rock is sedimentary.

# GEOPHYSICIST'S CERTIFICATE

I, DAVID G. MARK, of the City of Surrey, in the Province of British Columbia, do hereby certify that:

I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I am a Consulting Geophysicist of Geotronics Consulting Inc, with offices at 6204 – 125th Street, Surrey, British Columbia.

I further certify that:

1. I am a graduate of the University of British Columbia (1968) and hold a B.Sc. degree in Geophysics.

2. I have been practicing my profession for the past 38 years, and have been active in the mining industry for the past 41 years.

3. This report is compiled from data obtained from MMI soil sampling, magnetic, and VLF-EM surveys carried out by a crew of Geotronics Consulting headed by me within the VMS Property occurring on Lahte Creek, near the town of Stewart within the Atlin Mining Division of British Columbia. The work was done during the period of August 14th to 30th, 2007.

4. I hold 2,568 shares in Golden Dawn Minerals Inc, but I am not receiving any interest in the property discussed in this report, nor in any other property held by this company, nor in the company itself, nor do I expect to receive any interest, as a result of writing this report.

David G. Mark, P.Geo.
Geophysicist

January 9, 2008

# AFFIDAVIT OF EXPENSES

Grid emplacement as well as magnetic, VLF-EM and MMI soil sampling was carried out over a grid within the Western Boulder Zone within the VMS Property located on Lahte Creek in the Stewart area which is located on the northern coast of B.C. This work was done during the period of August 14th to 30th, 2007, and to the value of the following:

**FIELD :**

| | | |
|---|---|---|
| Mob/demob from Vancouver-Stewart, rtn, Golden Dawn's share | $2,800.00 | |
| 2-man crew, 11 days @ $800/day | 8,800.00 | |
| Instrument rental, 11 days @ $400/day | 4,400.00 | |
| Laboratory testing of 75 samples @ $35/sample | 2,625.00 | |
| Courier costs for sample shipping and instrument shipping | 1,245.00 | |
| TOTAL | | $19,870.00 |

**DATA REDUCTION and REPORT:**

| | |
|---|---|
| Senior Geophysicist, | $3,350.00 |
| TOTAL | $23,200.00 |

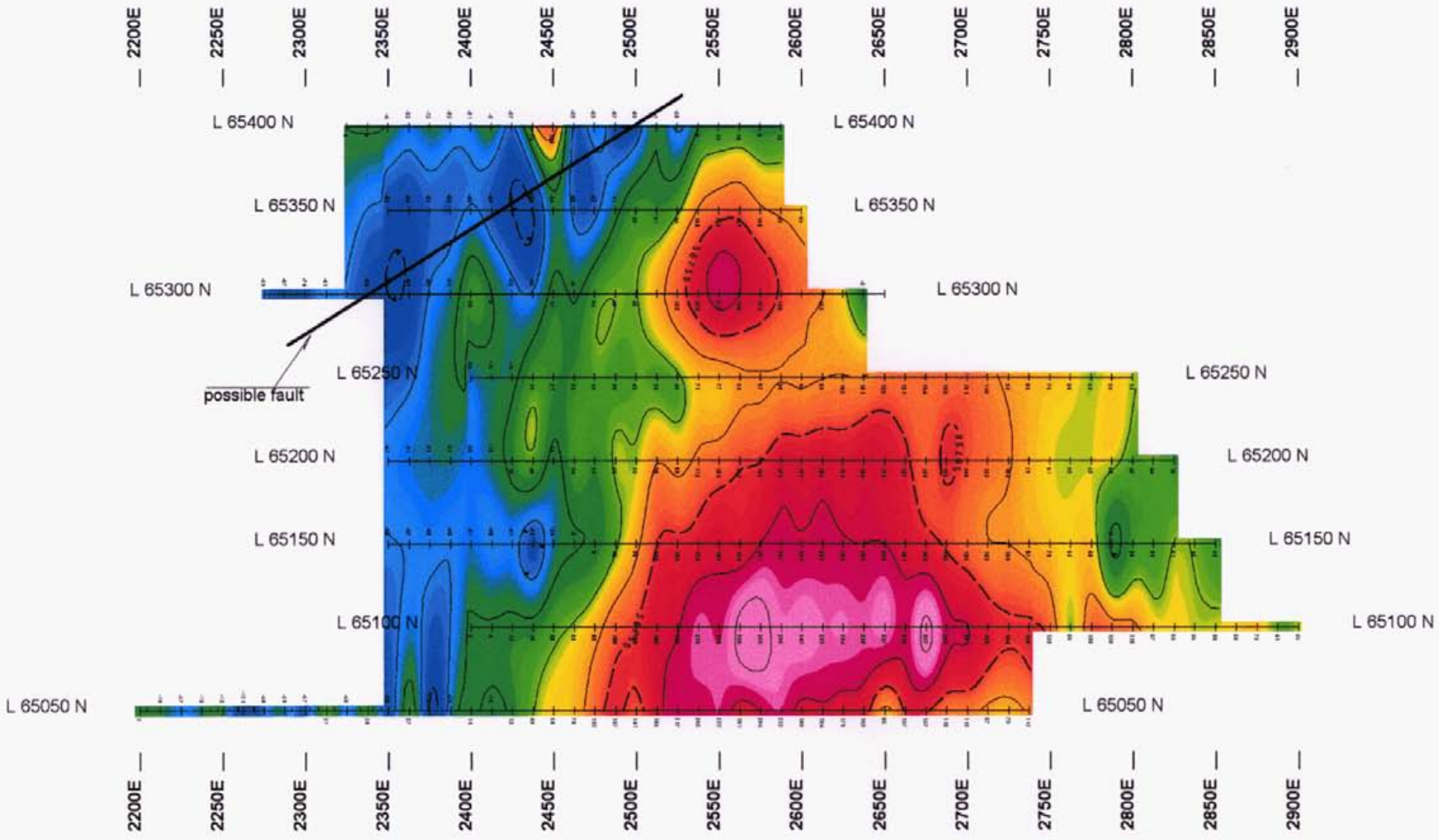
**GRAND TOTAL** **$23,200.00**

Respectfully submitted,
Geotronics Consulting Inc.

David G. Mark, P.Geo,
Geophysicist

January 11, 2008

# APPENDIX –GEOCHEMISTRY DATA




Survey Date:
August 2007

Instrumentation:
Proton Precession Magnetometer
Geometrics, Model G-856

Base:
56,600 nT (This value has been subtracted from each reading.)

Contour Interval:
50 nT

Data Reduction by:

**GEOTRONICS CONSULTING INC.**
**SURREY BC.**

50 0 50 100
(metres)

Figure GP-1a.

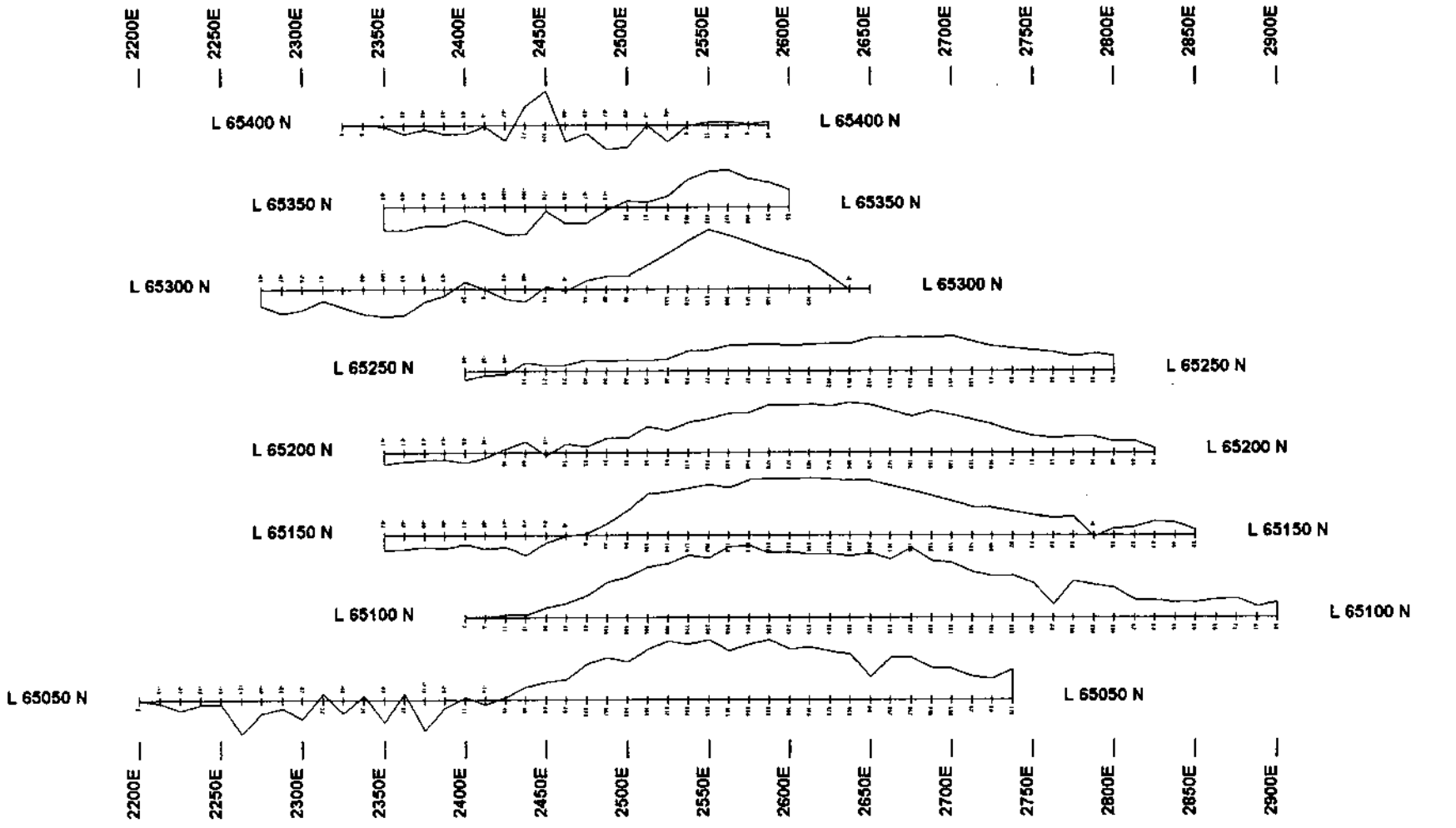
GEOTRONICS CONSULTING INC

**GOLDEN DAWN MINERALS INC**

VMS PROJECT
STEWART AREA
ATLIN MINING DIVISION, BC

## *MAGNETIC SURVEY*
### *CONTOUR PLAN*

| Drawn by: | Job No. | NTS | Date | Fig No. |
|---|---|---|---|---|
| DGM | 07-14 | 103P/11W | Jan 08 | GP-1a |




Survey Date:
August, 2007

Instrumentation:
Proton Precession Magnetometer
Geometrics, Model G-856

Base:
56,600 nT (This value has been subtracted from each reading.)

Profile Scale:
1 cm = 150 nT

Data Reduction by:
GEOTRONICS CONSULTING INC.
SURREY BC.

50 0 50 100
(metres)

Figure GP-1b.

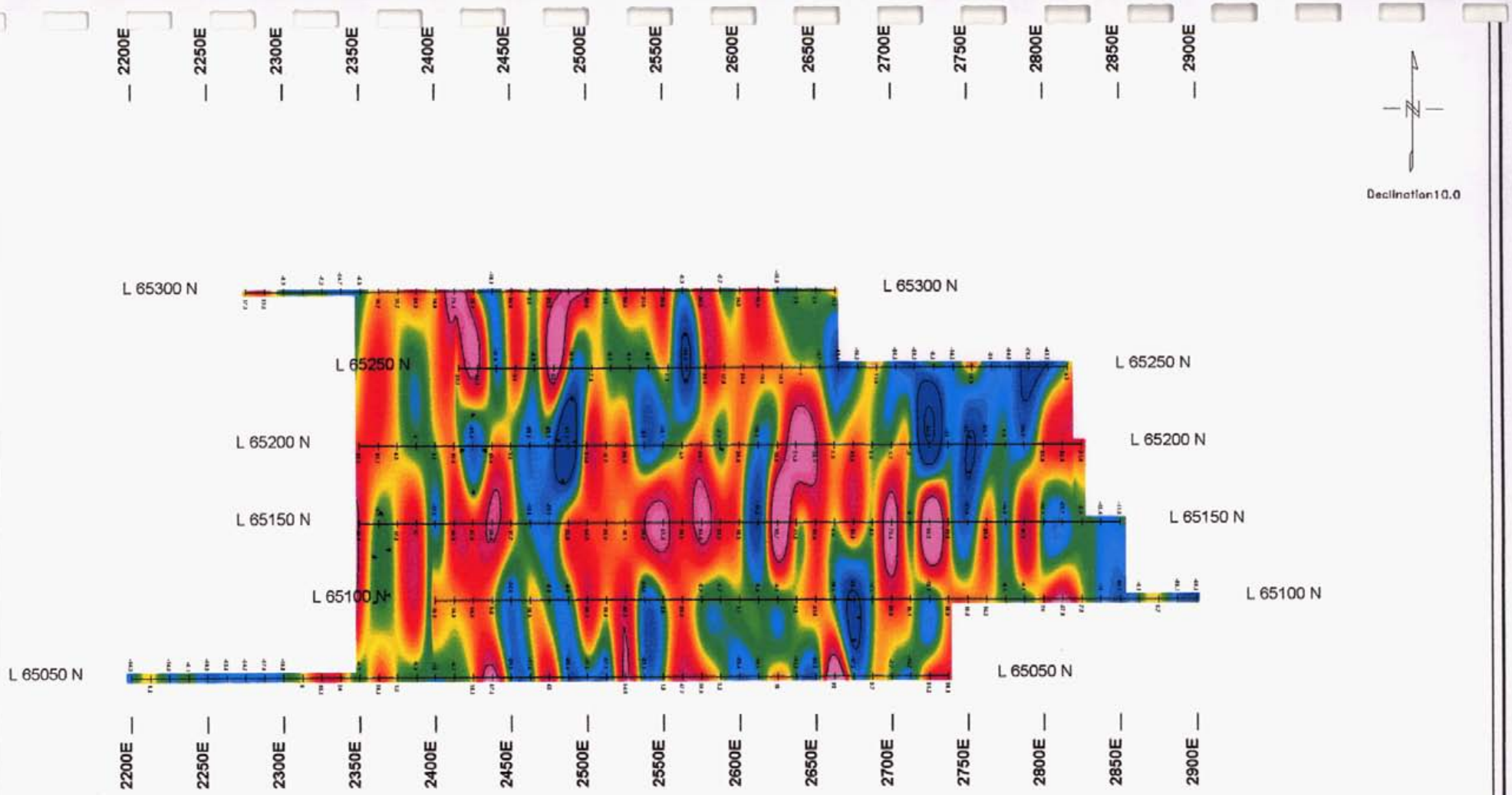
GEOTRONICS CONSULTING INC.

GOLDEN DAWN MINERALS INC

VMS PROJECT
STEWART AREA
ATLIN MINING DIVISION, BC

**MAGNETIC SURVEY**
**PROFILE PLAN**

| Drawn by: | Job No. | NTS | Date | Fig No. |
|---|---|---|---|---|
| DGM | 07-14 | 103P/11W | Jan 08 | ~~GP-3b~~ |




**Survey Date:**
August 2007

**Instrumentation:**
Proton Precession Magnetometer
Geometrics, Model G-856

**Base:**
56,600 nT (This value has been subtracted from each reading.)

**Contour Interval:**
50 nT

Figure GP-2.

Data Reduction by:

**GEOTRONICS CONSULTING INC.**
**SURREY BC.**

50 0 50 100
(metres)

GEOTRONICS CONSULTING INC

***GOLDEN DAWN MINERALS INC***

VMS PROJECT
STEWART AREA
ATLIN MINING DIVISION, BC

***VLF-EM SURVEY***
***CONTOUR PLAN***

| Drawn by: | Job No. | NTS | Date | Fig No. |
|---|---|---|---|---|
| DGM | 07-14 | 103P/11W | Jan 08 | GP-1a |

# Certificate of Analysis

**Work Order: 095458**

**To:** **Geotronics Consulting Inc.**
Attn: David G.Mark
6204 - 125th Street
SURREY
BC V3X 2E1

Date: Oct 25, 2007

| | |
|---|---|
| P.O. No. | Project: VMS |
| Project No. | DEFAULT |
| No. Of Samples | 36 |
| Date Submitted | Sep 07, 2007 |
| Report Comprises | Pages 1 to 6 (Inclusive of Cover Sheet) |

**Distribution of unused material:**

STORE: 36 Soils

Certified By :

Russ Calow, B.Sc., C.Chem.
Vice President Global Geochemistry

***ISO 17025 Accredited for Specific Tests. SCC No. 456***

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
– = No result

*INF = Composition of this sample makes detection impossible by this method
*M* after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

| Element | Ag | Al | As | Au | Ba | Bi | Ca | Cd | Ce | Co |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 |
| Det.Lim. | 1 | 1 | 10 | 0.1 | 10 | 1 | 10 | 1 | 5 | 5 |
| Units | PPB | PPM | PPB | PPB | PPB | PPB | PPM | PPB | PPB | PPB |
| L650+50N-822+25E | 37 | 28 | 20 | 0.3 | 2450 | <1 | 300 | 39 | 43 | 201 |
| L650+50N-822+50E | 66 | 101 | <10 | 0.1 | 3750 | <1 | 250 | 240 | 197 | 13 |
| L650+50N-823+00E | 37 | 14 | <10 | 0.4 | 2730 | <1 | 340 | 82 | 43 | 143 |
| L650+50N-824+50E | 9 | 73 | 20 | <0.1 | 2080 | <1 | 190 | 123 | 347 | 65 |
| L650+50N-825+00E | 50 | 158 | 40 | 0.2 | 3090 | <1 | 70 | 225 | 479 | 34 |
| L650+50N-825+50E | 403 | 60 | 20 | 1.2 | 3600 | <1 | 110 | 243 | 184 | 17 |
| L650+50N-826+00E | 393 | 74 | 50 | 1.0 | 2550 | <1 | 110 | 436 | 240 | 52 |
| L650+50N-826+50E | 470 | 19 | 20 | 1.2 | 1920 | <1 | 190 | 194 | 35 | 19 |
| L651+50N-824+00E | 64 | 86 | 80 | 0.4 | 2120 | <1 | 80 | 105 | 291 | 67 |
| L651+50N-824+50E | <1 | 54 | 60 | 0.2 | 2950 | <1 | 160 | 5 | 43 | 248 |
| L651+50N-824+75E | 34 | 97 | 160 | 1.0 | 1980 | 4 | 20 | 18 | 225 | 574 |
| L651+50N-825+00E | 160 | 70 | 120 | 0.8 | 1260 | 2 | 50 | 185 | 228 | 112 |
| L651+50N-825+25E | 86 | 104 | 60 | 0.5 | 1180 | 2 | 30 | 95 | 27 | 24 |
| L651+50N-825+75E | 492 | 102 | 60 | 0.4 | 1220 | 3 | 20 | 27 | 41 | 41 |
| L651+50N-826+00E | 288 | 21 | 30 | 1.0 | 1290 | <1 | 190 | 194 | 77 | 36 |
| L651+50N-826+25E | 250 | 18 | 30 | 0.9 | 1790 | <1 | 220 | 322 | 94 | 71 |
| L651+50N-826+50E | 251 | 37 | 20 | 0.7 | 3080 | <1 | 200 | 317 | 139 | 36 |
| L651+50N-826+75E | 259 | 35 | 40 | 0.9 | 2230 | <1 | 140 | 427 | 214 | 101 |
| L651+50N-827+25E | 314 | 39 | 40 | 0.8 | 2170 | <1 | 150 | 280 | 134 | 34 |
| L652+50N-824+00E | 797 | 34 | 20 | 1.2 | 1850 | <1 | 210 | 72 | 60 | 15 |
| L652+50N-824+50E | 62 | 78 | 180 | 0.1 | 470 | 3 | 20 | 5 | 38 | 17 |
| L652+50N-825+00E | 248 | 68 | 20 | 1.3 | 2090 | <1 | 150 | 99 | 169 | 38 |
| L652+50N-825+50E | 216 | 142 | 100 | 0.7 | 1270 | 2 | 20 | 135 | 231 | 61 |
| L652+50N-826+00E | 344 | 35 | 120 | 1.3 | 890 | 1 | 90 | 236 | 234 | 95 |
| L652+50N-826+50E | 292 | 17 | 30 | 0.8 | 1300 | <1 | 120 | 153 | 66 | 30 |
| L652+50N-827+00E | 330 | 19 | 30 | 0.8 | 1610 | <1 | 210 | 158 | 41 | 23 |
| L652+50N-828+00E | 174 | 93 | 240 | 0.7 | 1940 | 3 | 70 | 185 | 330 | 231 |
| L653+00N-824+50E | 157 | 120 | 50 | 1.4 | 1060 | 1 | 120 | 135 | 202 | 18 |
| L653+00N-825+50E | 375 | 87 | 40 | 1.3 | 1380 | <1 | 130 | 637 | 225 | 24 |
| L654+50N-823+50E | 164 | 251 | 200 | 2.1 | 730 | 3 | <10 | 7 | 539 | 26 |
| L654+50N-824+00E | 51 | 74 | <10 | <0.1 | 1070 | <1 | 180 | 20 | 132 | 6 |
| L654+50N-824+25E | 55 | 131 | 40 | 0.3 | 580 | 1 | <10 | 23 | 18 | 10 |
| L654+50N-825+00E | 109 | 153 | 10 | 1.7 | 1590 | 1 | 110 | 103 | 265 | 20 |
| L654+50N-825+25E | 111 | 4 | <10 | 0.5 | 1020 | <1 | 300 | 32 | 5 | 23 |
| L653+00N-824+00E | 15 | 228 | <10 | <0.1 | 520 | 1 | 20 | 4 | 9 | 12 |
| *Dup L650+50N-822+25E | 38 | 31 | 20 | 0.3 | 3360 | <1 | 290 | 29 | 56 | 245 |
| *Dup L651+50N-825+25E | 84 | 111 | 80 | 0.5 | 1380 | 2 | 30 | 87 | 31 | 24 |
| *Dup L652+50N-826+50E | 311 | 16 | 30 | 0.9 | 1150 | <1 | 130 | 164 | 67 | 26 |
| *Std MMISRM14 | 20 | 33 | 10 | 34.9 | 80 | <1 | 230 | 7 | 15 | 39 |
| *Blk BLANK | <1 | <1 | <10 | <0.1 | <10 | <1 | <10 | <1 | <5 | <5 |
| L652+50N-827+50E | 404 | 53 | 150 | 1.1 | 1130 | 2 | 70 | 319 | 248 | 65 |

| Element | Cr | Cu | Dy | Er | Eu | Fe | Gd | La | Li | Mg |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 |
| Det.Lim. | 100 | 10 | 1 | 0.5 | 0.5 | 1 | 1 | 1 | 5 | 1 |
| Units | PPB | PPB | PPB | PPB | PPB | PPM | PPB | PPB | PPB | PPM |
| L650+50N-822+25E | <100 | 5850 | 8 | 4.5 | 3.9 | 35 | 12 | 17 | <5 | 18 |
| L650+50N-822+50E | <100 | 2340 | 69 | 33.5 | 28.0 | 50 | 91 | 93 | <5 | 11 |
| L650+50N-823+00E | <100 | 10300 | 17 | 9.9 | 7.6 | 28 | 25 | 33 | <5 | 15 |
| L650+50N-824+50E | <100 | 1370 | 41 | 19.0 | 15.4 | 81 | 56 | 100 | <5 | 15 |
| L650+50N-825+00E | <100 | 3380 | 122 | 53.8 | 52.4 | 94 | 175 | 243 | <5 | 5 |
| L650+50N-825+50E | <100 | 2530 | 83 | 37.0 | 42.6 | 46 | 135 | 177 | <5 | 7 |
| L650+50N-826+00E | <100 | 2320 | 79 | 33.9 | 42.6 | 112 | 133 | 161 | <5 | 8 |
| L650+50N-826+50E | <100 | 1570 | 28 | 11.7 | 15.9 | 28 | 51 | 34 | <5 | 19 |
| L651+50N-824+00E | <100 | 2250 | 65 | 28.5 | 30.1 | 79 | 99 | 147 | <5 | 7 |
| L651+50N-824+50E | <100 | 1900 | 7 | 4.0 | 2.4 | 161 | 9 | 13 | <5 | 14 |
| L651+50N-824+75E | <100 | 4500 | 32 | 16.1 | 13.6 | 245 | 43 | 59 | <5 | 5 |
| L651+50N-825+00E | <100 | 1380 | 33 | 14.2 | 16.9 | 233 | 51 | 79 | <5 | 6 |
| L651+50N-825+25E | <100 | 1120 | 12 | 6.6 | 2.6 | 430 | 9 | 17 | <5 | 11 |
| L651+50N-825+75E | <100 | 980 | 10 | 6.2 | 3.0 | 525 | 10 | 22 | <5 | 4 |
| L651+50N-826+00E | <100 | 1500 | 30 | 12.9 | 17.5 | 45 | 53 | 57 | <5 | 17 |
| L651+50N-826+25E | <100 | 1960 | 26 | 11.2 | 15.0 | 36 | 45 | 50 | <5 | 19 |
| L651+50N-826+50E | <100 | 1260 | 39 | 16.8 | 20.6 | 42 | 65 | 77 | <5 | 24 |
| L651+50N-826+75E | <100 | 1970 | 55 | 24.2 | 32.1 | 68 | 99 | 130 | <5 | 10 |
| L651+50N-827+25E | <100 | 1840 | 53 | 23.8 | 29.1 | 87 | 89 | 95 | <5 | 11 |
| L652+50N-824+00E | <100 | 1840 | 37 | 15.8 | 18.7 | 26 | 62 | 55 | <5 | 18 |
| L652+50N-824+50E | <100 | 330 | 5 | 2.4 | 1.8 | 213 | 6 | 19 | <5 | 2 |
| L652+50N-825+00E | <100 | 1940 | 47 | 18.8 | 23.1 | 63 | 71 | 71 | <5 | 22 |
| L652+50N-825+50E | <100 | 3080 | 85 | 40.7 | 38.8 | 340 | 121 | 83 | 5 | 3 |
| L652+50N-826+00E | <100 | 1690 | 78 | 31.4 | 46.9 | 99 | 143 | 119 | <5 | 12 |
| L652+50N-826+50E | <100 | 1130 | 36 | 15.2 | 20.9 | 44 | 64 | 57 | <5 | 11 |
| L652+50N-827+00E | <100 | 1480 | 30 | 13.4 | 16.4 | 28 | 51 | 45 | <5 | 14 |
| L652+50N-828+00E | <100 | 2090 | 57 | 23.7 | 30.9 | 294 | 94 | 117 | <5 | 9 |
| L653+00N-824+50E | <100 | 4830 | 54 | 27.4 | 17.4 | 112 | 62 | 60 | <5 | 4 |
| L653+00N-825+50E | <100 | 2260 | 75 | 32.6 | 41.4 | 86 | 126 | 123 | <5 | 11 |
| L654+50N-823+50E | 100 | 1680 | 83 | 34.9 | 37.6 | 332 | 114 | 59 | <5 | 1 |
| L654+50N-824+00E | <100 | 460 | 57 | 26.3 | 24.3 | 46 | 81 | 107 | <5 | 7 |
| L654+50N-824+25E | <100 | 370 | 2 | 1.7 | 0.7 | 407 | 3 | 11 | <5 | 1 |
| L654+50N-825+00E | <100 | 2470 | 137 | 64.2 | 57.7 | 65 | 179 | 174 | <5 | 5 |
| L654+50N-825+25E | <100 | 710 | 3 | 1.1 | 1.4 | 2 | 5 | 2 | 5 | 18 |
| L653+00N-824+00E | <100 | 240 | 3 | 2.7 | <0.5 | 120 | 2 | 5 | <5 | 5 |
| *Dup L650+50N-822+25E | <100 | 7680 | 9 | 5.3 | 4.4 | 47 | 14 | 22 | <5 | 18 |
| *Dup L651+50N-825+25E | <100 | 1220 | 14 | 8.7 | 3.5 | 483 | 12 | 20 | <5 | 10 |
| *Dup L652+50N-826+50E | <100 | 1220 | 36 | 14.9 | 20.1 | 46 | 63 | 56 | <5 | 13 |
| *Std MMISRM14 | <100 | 650 | 2 | 0.6 | 0.8 | 2 | 3 | 3 | <5 | 32 |
| *Blk BLANK | <100 | <10 | <1 | <0.5 | <0.5 | <1 | <1 | <1 | <5 | <1 |
| L652+50N-827+50E | <100 | 1800 | 61 | 25.5 | 34.3 | 138 | 106 | 116 | <5 | 7 |

| Element | Mo | Nb | Nd | Ni | Pb | Pd | Pr | Pt | Rb | Sb |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 |
| Det.Lim. | 5 | 0.5 | 1 | 5 | 10 | 1 | 1 | 1 | 5 | 1 |
| Units | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB |
| L650+50N-822+25E | 172 | 1.3 | 36 | 538 | 80 | <1 | 7 | <1 | 27 | 5 |
| L650+50N-822+50E | 8 | <0.5 | 203 | 552 | 370 | <1 | 41 | <1 | 26 | 3 |
| L650+50N-823+00E | 57 | <0.5 | 63 | 418 | 90 | <1 | 12 | <1 | 14 | 4 |
| L650+50N-824+50E | 6 | <0.5 | 178 | 379 | 800 | <1 | 39 | <1 | 40 | 2 |
| L650+50N-825+00E | 8 | 0.7 | 446 | 395 | 1340 | <1 | 95 | <1 | 87 | 9 |
| L650+50N-825+50E | 5 | <0.5 | 322 | 139 | 1240 | <1 | 65 | <1 | 73 | 8 |
| L650+50N-826+00E | 5 | <0.5 | 321 | 206 | 730 | <1 | 67 | <1 | 60 | 12 |
| L650+50N-826+50E | 9 | <0.5 | 84 | 62 | 580 | <1 | 16 | <1 | 40 | 5 |
| L651+50N-824+00E | 14 | 1.0 | 273 | 204 | 2940 | <1 | 58 | <1 | 128 | 15 |
| L651+50N-824+50E | 84 | <0.5 | 24 | 328 | 280 | <1 | 5 | <1 | 10 | 20 |
| L651+50N-824+75E | 34 | 2.2 | 113 | 151 | 1490 | <1 | 23 | <1 | 82 | 47 |
| L651+50N-825+00E | 11 | 0.5 | 144 | 86 | 2470 | <1 | 30 | <1 | 104 | 26 |
| L651+50N-825+25E | 8 | 1.5 | 19 | 49 | 3120 | <1 | 4 | <1 | 132 | 8 |
| L651+50N-825+75E | 5 | 1.1 | 25 | 43 | 2650 | <1 | 6 | <1 | 39 | 11 |
| L651+50N-826+00E | 6 | <0.5 | 117 | 69 | 1240 | <1 | 22 | <1 | 56 | 9 |
| L651+50N-826+25E | 7 | <0.5 | 100 | 118 | 960 | <1 | 19 | <1 | 36 | 7 |
| L651+50N-826+50E | <5 | <0.5 | 155 | 138 | 880 | <1 | 31 | <1 | 53 | 7 |
| L651+50N-826+75E | 9 | <0.5 | 239 | 166 | 1140 | <1 | 46 | <1 | 66 | 14 |
| L651+50N-827+25E | 5 | <0.5 | 191 | 116 | 1330 | <1 | 37 | <1 | 75 | 11 |
| L652+50N-824+00E | 10 | <0.5 | 139 | 76 | 550 | <1 | 25 | <1 | 61 | 7 |
| L652+50N-824+50E | 7 | 14.1 | 22 | 32 | 2450 | <1 | 5 | <1 | 226 | 23 |
| L652+50N-825+00E | <5 | <0.5 | 161 | 69 | 4240 | <1 | 31 | <1 | 61 | 9 |
| L652+50N-825+50E | 8 | 1.0 | 206 | 58 | 8450 | <1 | 38 | <1 | 104 | 21 |
| L652+50N-826+00E | 8 | <0.5 | 315 | 70 | 3500 | <1 | 57 | <1 | 73 | 23 |
| L652+50N-826+50E | 6 | <0.5 | 131 | 69 | 1810 | <1 | 24 | <1 | 75 | 9 |
| L652+50N-827+00E | 5 | <0.5 | 104 | 68 | 870 | <1 | 18 | <1 | 58 | 7 |
| L652+50N-828+00E | 11 | <0.5 | 245 | 78 | 4590 | <1 | 50 | <1 | 87 | 51 |
| L653+00N-824+50E | 9 | 0.7 | 119 | 154 | 920 | <1 | 24 | <1 | 56 | 11 |
| L653+00N-825+50E | <5 | <0.5 | 288 | 154 | 7380 | <1 | 58 | <1 | 51 | 11 |
| L654+50N-823+50E | 8 | 8.3 | 272 | 37 | 1290 | <1 | 47 | <1 | 139 | 34 |
| L654+50N-824+00E | <5 | <0.5 | 209 | 52 | 180 | <1 | 41 | <1 | 41 | 4 |
| L654+50N-824+25E | 9 | 5.4 | 9 | 184 | 740 | <1 | 2 | <1 | 250 | 4 |
| L654+50N-825+00E | <5 | <0.5 | 398 | 184 | 1180 | <1 | 78 | <1 | 55 | 9 |
| L654+50N-825+25E | 12 | <0.5 | 6 | 33 | 110 | <1 | <1 | <1 | 34 | <1 |
| L653+00N-824+00E | <5 | 1.7 | 5 | 268 | 580 | <1 | 1 | <1 | 33 | 2 |
| *Dup L650+50N-822+25E | 131 | <0.5 | 44 | 575 | 100 | <1 | 9 | <1 | 27 | 7 |
| *Dup L651+50N-825+25E | 6 | 1.9 | 24 | 51 | 2960 | <1 | 5 | <1 | 128 | 9 |
| *Dup L652+50N-826+50E | 5 | <0.5 | 130 | 71 | 1270 | <1 | 24 | <1 | 74 | 9 |
| *Std MMISRM14 | 33 | <0.5 | 12 | 236 | 90 | 40 | 2 | <1 | 265 | <1 |
| *Blk BLANK | <5 | <0.5 | <1 | <5 | <10 | <1 | <1 | <1 | <5 | <1 |
| L652+50N-827+50E | 7 | <0.5 | 254 | 98 | 4280 | <1 | 50 | <1 | 71 | 31 |

| Element | Sc | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | Tl |
|---|---|---|---|---|---|---|---|---|---|---|
| Method | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 |
| Det.Lim. | 5 | 1 | 1 | 10 | 1 | 1 | 10 | 0.5 | 3 | 0.5 |
| Units | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB | PPB |
| L650+50N-822+25E | 13 | 11 | <1 | 3370 | <1 | 2 | <10 | 6.3 | 20 | 1.1 |
| L650+50N-822+50E | 74 | 72 | <1 | 2310 | 1 | 14 | <10 | 8.6 | 45 | 0.8 |
| L650+50N-823+00E | 11 | 19 | <1 | 1910 | <1 | 3 | <10 | 3.2 | 9 | 0.8 |
| L650+50N-824+50E | 63 | 50 | <1 | 650 | <1 | 8 | <10 | 15.1 | 74 | 0.6 |
| L650+50N-825+00E | 146 | 148 | <1 | 340 | <1 | 25 | <10 | 29.0 | 137 | 1.0 |
| L650+50N-825+50E | 103 | 114 | <1 | 340 | <1 | 18 | <10 | 10.8 | 47 | 0.6 |
| L650+50N-826+00E | 132 | 117 | <1 | 530 | <1 | 17 | <10 | 12.7 | 70 | 1.0 |
| L650+50N-826+50E | 11 | 41 | <1 | 2170 | <1 | 6 | <10 | 4.0 | 18 | <0.5 |
| L651+50N-824+00E | 76 | 88 | <1 | 530 | <1 | 14 | <10 | 16.3 | 156 | 2.2 |
| L651+50N-824+50E | 25 | 6 | <1 | 2800 | <1 | 1 | <10 | 3.3 | 65 | 0.8 |
| L651+50N-824+75E | 82 | 39 | <1 | 270 | <1 | 6 | <10 | 21.7 | 353 | 4.1 |
| L651+50N-825+00E | 91 | 48 | <1 | 200 | <1 | 7 | <10 | 11.9 | 142 | 2.0 |
| L651+50N-825+25E | 29 | 7 | <1 | 190 | <1 | 2 | <10 | 6.6 | 300 | 0.9 |
| L651+50N-825+75E | 35 | 8 | <1 | 190 | <1 | 2 | <10 | 7.3 | 247 | 1.0 |
| L651+50N-826+00E | 39 | 45 | <1 | 1060 | <1 | 6 | <10 | 5.7 | 28 | 0.8 |
| L651+50N-826+25E | 22 | 39 | <1 | 570 | <1 | 6 | <10 | 4.6 | 22 | 1.4 |
| L651+50N-826+50E | 33 | 56 | <1 | 740 | <1 | 8 | <10 | 5.9 | 26 | 1.3 |
| L651+50N-826+75E | 68 | 87 | <1 | 500 | <1 | 12 | <10 | 8.1 | 37 | 1.5 |
| L651+50N-827+25E | 81 | 73 | <1 | 400 | <1 | 12 | <10 | 8.0 | 38 | 1.1 |
| L652+50N-824+00E | 14 | 51 | <1 | 1100 | <1 | 8 | <10 | 4.9 | 33 | 0.7 |
| L652+50N-824+50E | 33 | 6 | 2 | 140 | 1 | <1 | <10 | 10.0 | 1300 | 0.6 |
| L652+50N-825+00E | 54 | 62 | <1 | 560 | <1 | 10 | <10 | 11.5 | 63 | 0.8 |
| L652+50N-825+50E | 145 | 96 | <1 | 130 | <1 | 17 | <10 | 22.1 | 259 | 1.3 |
| L652+50N-826+00E | 115 | 127 | <1 | 230 | <1 | 18 | <10 | 10.4 | 49 | 1.3 |
| L652+50N-826+50E | 49 | 55 | <1 | 420 | <1 | 8 | <10 | 5.4 | 17 | 0.8 |
| L652+50N-827+00E | 21 | 41 | <1 | 510 | <1 | 6 | <10 | 4.2 | 18 | 0.8 |
| L652+50N-828+00E | 200 | 89 | <1 | 290 | <1 | 12 | <10 | 17.2 | 208 | 2.5 |
| L653+00N-824+50E | 112 | 43 | <1 | 1120 | <1 | 10 | <10 | 16.9 | 121 | <0.5 |
| L653+00N-825+50E | 102 | 112 | <1 | 440 | <1 | 16 | <10 | 12.2 | 55 | 0.7 |
| L654+50N-823+50E | 267 | 117 | <1 | 60 | <1 | 17 | <10 | 47.3 | 1550 | 2.1 |
| L654+50N-824+00E | 46 | 68 | <1 | 290 | <1 | 11 | <10 | 7.6 | 31 | <0.5 |
| L654+50N-824+25E | 14 | 2 | <1 | 70 | <1 | <1 | <10 | 9.3 | 1280 | 0.9 |
| L654+50N-825+00E | 152 | 144 | <1 | 300 | <1 | 27 | <10 | 28.2 | 86 | <0.5 |
| L654+50N-825+25E | 6 | 3 | <1 | 2730 | <1 | <1 | <10 | 0.8 | <3 | <0.5 |
| L653+00N-824+00E | 21 | 1 | <1 | 750 | <1 | <1 | <10 | 3.9 | 484 | <0.5 |
| *Dup L650+50N-822+25E | 18 | 13 | <1 | 3450 | <1 | 2 | <10 | 4.9 | 22 | 1.4 |
| *Dup L651+50N-825+25E | 33 | 9 | <1 | 290 | <1 | 2 | <10 | 7.7 | 353 | 0.7 |
| *Dup L652+50N-826+50E | 48 | 53 | <1 | 420 | <1 | 8 | <10 | 5.2 | 14 | 0.6 |
| *Std MMISRM14 | 7 | 3 | <1 | 520 | <1 | <1 | <10 | 17.2 | <3 | <0.5 |
| *Blk BLANK | <5 | <1 | <1 | <10 | <1 | <1 | <10 | <0.5 | <3 | <0.5 |
| L652+50N-827+50E | 163 | 97 | <1 | 200 | <1 | 14 | <10 | 15.3 | 80 | 1.0 |

| Element | U | W | Y | Yb | Zn | Zr |
|---|---|---|---|---|---|---|
| Method | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 | MMI-M5 |
| Det.Lim. | 1 | 1 | 5 | 1 | 20 | 5 |
| Units | PPB | PPB | PPB | PPB | PPB | PPB |
| L650+50N-822+25E | 32 | 1 | 51 | 5 | 1540 | 10 |
| L650+50N-822+50E | 89 | 2 | 371 | 27 | 13500 | 28 |
| L650+50N-823+00E | 22 | <1 | 134 | 10 | 780 | 6 |
| L650+50N-824+50E | 7 | <1 | 184 | 15 | 2620 | 19 |
| L650+50N-825+00E | 57 | <1 | 591 | 43 | 8550 | 62 |
| L650+50N-825+50E | 32 | <1 | 431 | 31 | 12700 | 37 |
| L650+50N-826+00E | 44 | <1 | 388 | 28 | 19800 | 30 |
| L650+50N-826+50E | 19 | <1 | 133 | 8 | 8230 | 11 |
| L651+50N-824+00E | 36 | <1 | 279 | 22 | 4770 | 52 |
| L651+50N-824+50E | 24 | <1 | 38 | 4 | 610 | 13 |
| L651+50N-824+75E | 38 | <1 | 130 | 14 | 580 | 78 |
| L651+50N-825+00E | 17 | <1 | 132 | 12 | 6420 | 38 |
| L651+50N-825+25E | 11 | <1 | 53 | 7 | 4150 | 32 |
| L651+50N-825+75E | 8 | <1 | 41 | 7 | 2050 | 30 |
| L651+50N-826+00E | 14 | <1 | 158 | 10 | 8620 | 17 |
| L651+50N-826+25E | 10 | <1 | 134 | 9 | 8230 | 15 |
| L651+50N-826+50E | 15 | <1 | 171 | 13 | 10200 | 20 |
| L651+50N-826+75E | 24 | <1 | 257 | 20 | 15300 | 23 |
| L651+50N-827+25E | 22 | <1 | 268 | 20 | 13300 | 24 |
| L652+50N-824+00E | 36 | <1 | 187 | 12 | 2700 | 21 |
| L652+50N-824+50E | 5 | <1 | 21 | 2 | 550 | 63 |
| L652+50N-825+00E | 17 | <1 | 170 | 15 | 5360 | 29 |
| L652+50N-825+50E | 34 | <1 | 353 | 35 | 3820 | 70 |
| L652+50N-826+00E | 20 | <1 | 316 | 25 | 7470 | 25 |
| L652+50N-826+50E | 11 | <1 | 173 | 12 | 6980 | 15 |
| L652+50N-827+00E | 12 | <1 | 168 | 11 | 6450 | 13 |
| L652+50N-828+00E | 27 | <1 | 200 | 19 | 5390 | 65 |
| L653+00N-824+50E | 82 | <1 | 301 | 22 | 9620 | 62 |
| L653+00N-825+50E | 23 | <1 | 332 | 27 | 15100 | 37 |
| L654+50N-823+50E | 25 | <1 | 201 | 33 | 520 | 190 |
| L654+50N-824+00E | 16 | <1 | 262 | 20 | 1320 | 34 |
| L654+50N-824+25E | 8 | <1 | 12 | 2 | 1380 | 59 |
| L654+50N-825+00E | 24 | <1 | 614 | 51 | 4160 | 55 |
| L654+50N-825+25E | 4 | <1 | 15 | <1 | 170 | 5 |
| L653+00N-824+00E | 4 | <1 | 15 | 3 | 430 | 22 |
| *Dup L650+50N-822+25E | 32 | <1 | 62 | 8 | 1490 | 13 |
| *Dup L651+50N-825+25E | 11 | <1 | 81 | 7 | 3750 | 36 |
| *Dup L652+50N-826+50E | 11 | <1 | 177 | 12 | 7480 | 14 |
| *Std MMISRM14 | 39 | <1 | 7 | <1 | 300 | 15 |
| *Blk BLANK | <1 | <1 | <5 | <1 | <20 | <5 |
| L652+50N-827+50E | 19 | <1 | 260 | 20 | 10400 | 38 |

APPENDIX 2.

Sample Descriptions and Analyses

Acme Analytical Laboratories Ltd.
Certificates of Analyses
VAN07000976.2 (ICP-ES)
A707248(FA + ICP-ES)
VAN07000977.1 (ICP-ES)

2007 Sample Descriptions (recorded by F. Yacoub, P. Geo.)

MAIN GOSSAN ZONE

R-1, R-2, R-3, R-4, R-5 - all from near vicinity of GPS location 482405E, 6165894N

R-1 - width 2 metres
R-2 - width 4 metres
R-3 - width 2 metres
R-4 - width 4 metres
R-5 - width 4 metres
Silicified, altered argillic sedimentary rocks, light grey to light brown gossan zone with 10 - 15% silica in the form of quartz crystals intercalated with fine-grained pyrite. The gossan zone at this location is trending N-NW and has total width 17 metres.

R-6 - 4 metre chip sample from 482401E, 6165893N
Sample represents a contact zone between altered sediments and light creamy coloured volcanic (rhyolite). Zone strikes 110°, dips -49° north. Characterized by intense pyrite and hematite staining, especially at the contact.

R-7 - width 1 metre, GPS location 482421E, 6165836N
Comprises rusty-stained, light brown sediments with disseminated pyrite, Mn oxide and hematite. Location is about 50 metres south of samples R-1 to R-6 and 10 m east of baseline of grid

R-8 - width 2 metres, GPS location 482430E, 6165819N
Sample of altered hematitic argillite with 5 - 10% pyrite and with dark brown hematite in cavities. Chip sample.

R-9 - width 10 metres, GPS location 482422E, 6165825N
Gossaned argillite with hematitic and limonitic alteration, fine grained pyrite. Chip sample.

R-10 - width 4 metres, GPS location 482470E, 6165710N, elevation 910 metres.
Sample from approximate center of Main Gossan Zone. Altered dacite/andesite boulder with dimensions 4m X 5m. Includes disseminated v. fine grained pyrite, mica and brown hematite.

R-11 and R-12 - GPS location 482459E, 6165570N, north-northwest of R-10, about 60 m. Elev. ~847 m.
R-11 - 12 metre chip sample of light brownj to orange, rusty volcanic dacite with limonitic/hematitic alteration on weathered surfaces.
R-12 - chip sample from contact zone between dacitic volcanics and altered argillite. Zone is silicified and has v. f. g.. pyrite.

R-13 - width 2 metres. GPS location 482418E, 6165695N.
Chip sample. At gossaned contact between dacite and argillite.

R-14 - width 2 metres.
Rock is altered and gossaned dacite with strong pyrite as disseminations, hematitic and limonitic staining where weathered. Location is 7 metres west of Main Gossan Zone.

R-15 - location "from south part of Main Gossan Zone, immediately west of creek" at 482464E, 6165678N. From gossaned boulder that is strongly pyrite and rusty hematitic weathering.

BOULDER ZONE

Location is north side of Lahte Creek (GPS given below). Zone comprises mineralized angular boulders in an area 75 metres X 50 metres. Sulphide mineralization in the form of disseminated, semi-massive banded galena, sphalerite, chalcopyrite, up to 25%. Malachite and barite are present. Sampling in 2000 returned highest assays R-00-4 - 10% Cu, 0.16 opt Au, 99.7 gpt Ag., R-00-6 - 1.6% Cu, 5.6 gpt Au. Aerial recce revealed two malachite-stained outcrops located about 1800 metres from this site that are possible source areas.

R-16 - Float sample. Location: 481382E, 6164445N. Elev. ~766 m.
Sample from andesitic boulder with dimensions 1foot by 2 feet and with disseminated chalcopyrite, v. f. g. galena, malachite.

R-17 - Float sample. Location 481377E, 6164450N. Elev. ~766 m.
Sample from angular boulder located immediately north of R-16. Andesite with chalcopyrite, pyrite, f. g. galena, malachite.

R-18 - Float sample. Location 481377E, 6164455N. Elev. ~769 m.
Sample from angular boulder with dimensions 4 feet by 8 feet. Light grey andesite with disseminated pyrite, chalcopyrite, f. g. galena, malachite.

R-19 - Float sample. Location 481370E, 6164465N.
Sample from boulder with dimensions 1 foot by 1 foot. Mineralized with pyrite, chalcopyrite, galena, malachite.

R-20 - Float sample. Location 481391E, 6164460N. Elev. ~759 m.
Sample from boulder with dimensions 1 foot by 2 feet.

R-21 - Float sample. Location 481397E, 6164462N. Elev. ~759 m.
Sample from boulder with dimensions 4 feet by 4 1/2 feet. Semi-massive to massive sulphides in light grey and maroon coloured boulder.

R-22 - Float sample. Location 481395E, 6164473N.
Massive to semi-massive sulphides, mainly galena, chalcopyrite, malachite. This is best mineralization in the Boulder Zone.

R-23, -24, -25 - Float samples from large boulders located at the south end of the gossan zone.

WESTERN ZONE

Located 800 metres southwest of the Main Gossan Zone, approximately 50 m. north of Lahte Creek. Comprises silicified and oxidized volcanic rocks. Mineralization is 5 - 6% fine grained pyrite, very fine grained galena, traces chalcopyrite in rusty altered dacite. Weathered surfaces are dark brown. Zone can be traced for more than 20 metres with average width 2 to 4 metres.

R-26 - Width 3 metres. Location GPS 481510E, 6164676N.
Chip sample across outcrop with altered dacitic volcanics that is cut by series of barite veins and veinlets with width 1 to 10 cm. Fine grained pyrite is disseminated in the volcanics. Surface oxidation.

R-27 - Width 2 metres. Location GPS 481510E, 6164665N. Elev. ~736 m.
Chip sample from same outcrop as R-26 but approx. 10 m. south. Similar rock.

R-28 - Width 2 metres. Location: continuation of R-27 sample.
Chip sample of altered and oxidized dacite that has strong v. f. g. pyrite, chalcopyrite, minor malachite and 10 - 15% of unidentified grey metallic mineral (possibly Pb). Zone trends 230°, dips 45° northwest.

R-29 - Width 4 metres. Location GPS 481547E, 6164653N.
Chip sample across altered and mineralized volcanic rock (dacite) with f. g. pyrite and altered biotite. Outcrop is 12 metres long and 4 metres wide.

R-30 - Width 40 cm. Location - same as R-29.
Chip sample across 40 cm of quartz vein with fine-grained disseminated galena. Fractures have hematite and sericite. QV strikes N10°E.

R-31 - Float sample. Very large angular boulder (10 feet by 10 feet) located at GPS 481565E, 6164695N. Site is east of the Western Gossan Zone. Volcanic dacite with disseminated pyrite.

LOWER GOSSAN ZONE

This is the first work in this zone by the present owners. Hazelton Group argillaceous sedimentary rocks with attitude N20°W, dip 45° - 60° East. Rock weathers light brown. Mineralization comprises disseminated fine grained pyrite. Hematite and limonite oxidation is prevalent. This zone appears to be located close to or on the contact between the volcanic rocks of Stuhini Group and sedimentary rocks of Hazelton Group.

R-32 - Width: grab sample. Location GPS 481560E, 6164685N. Elevation ~708 m.
Sample is from middle part of the zone. Light brown altered and silicified argillite with disseminated pyrite.

R-33 - Width 1 metre. Location GPS 482328E, 6165326N.
Chip sample of silicified and altered argillite in the lower part of the zone. F. g. pyrite. Cavities have quartz, hematite and limonite.

R-34 - Width 3 metres. Location GPS 482281E, 6165448N.
Altered silicified argillite with 25 - 30% disseminated f. g. pyrite. Limonite present. Bedding attitude is N20°E, dip 45° SE. Sample from west side of a "wall".

R-35 - Width - panel sample over 2 metres by 2 metres. Location GPS 481560E, 6164685N.
From east side of Middle Gossan Zone. Rusty silicified argillite with disseminated pyrite, and hematite-limonite in cavities.

R-36 - Width - 4 metres. Location GPS 482328E, 6165328N.
Similar to R-34, R-35. Rusty silicified argillite with disseminated pyrite, hematite and limonite, and quartz in cavities.

**Descriptions of Samples Taken by E. Ostensoe, August 25 - 27, 2007**

**August 25, 2007. Main Gossan Zone.**

**ER-1** Grab sample. Location: GPS 482592E, 6165434N.
Yellow-orange weathered boulder - 5m X 3m X 2m. Very fine grained sericite-pyrite metasediments.

**ER-2** Sample from geophysical/MMI sampling grid 56+50N, 24+75E.
Sericite schist with vein quartz, tr. galena. Bedrock sample.

ER-3 Talus fines. Location: GPS 482451E, 6165700N.
Taken below very strongly coloured outcrop of dark grey bedded sedimentary rocks altered to orange-grey pyritic sericite schist.

ER-4 Sample of "best obtainable" material from same location as ER-3. Weakly siliceous, strongly pyritic phyllite.

**August 26, 2007. LGY Area - farthest southwest corner of property.**

ER-5 LGY area. Location: GPS 482425E, 6165639N.
Chips taken from several quartz-pyrite-sericite schist boulders.
GL-07-R1 - sample taken from same site by M. Gauthier.

ER-6 LGY area. Location: GPS 482295E, 6160440N. Altitude: 890 m.
Sample from large yellowish gossan located on south wall of valley. Mixture of quartz, sulphides in sericite-pyrite altered phyllite.

ER-7 LGY area. Location: GPS 481481E, 6160565N. Off claim.
Taken beside glacier at farthest west part of valley. Series of alteration zones lie parallel to a 342°/85° foliation. Zones are narrow but contain up to 20% pyrite. Argillic sediments are silicified.

**August 27, 2007. Lahte Creek Area Samples**

ER-8 VMS area. Location: GPS 482328E, 6165328N. Same location as Fayz Y's sample R-36 from northwest side of small creek and near base of escarpment. Discontinuous sample across 9 metres. Quartz-sericite-pyrite impregnated argillic rock. Foliation: 200°/80° SE.

ER-9 VMS area. Location: GPS 482350E, 616540N. Chip sample from east wall of escarpment at base of waterfall. Length 8 metres. Iron-stained arkose with 1% v.f.g. pyrite. Some silicification.

ER-10. VMS area. Location: GPS 482331E, 6164344N.
Chip sample. Best sulphides in silicification northwest branch of small stream, at base of waterfall.

**Stream Sediment Samples - LGY area**

SS-1 Location 482497E, 6165639N.
Good material from fast flowing stream. Creek bed has boulders up to 1.5 m diameter.

SS-2 Location GPS 481708E, 6160552N. From west end of small lake at toe of glacier. Headwaters of creek that becomes Tchitin River. Dark grey fine gravel and silt. Off claim.

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3929 West 30th Ave.
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Submitted By: Fayz Yacoub
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: August 31, 2007
Report Date: November 02, 2007
Page: 1 of 3

# CERTIFICATE OF ANALYSIS VAN07000976.1

## CLIENT JOB INFORMATION

| | |
|---|---|
| Project: | None Given |
| Shipment ID: | |
| P.O. Number | |
| Number of Samples: | 59 |

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status |
|---|---|---|---|---|
| R150 | 58 | Crush, split and pulverize rock to 150 mesh | | |
| 1D | 58 | Aqua Regia digestion ICP-ES analysis | 0.5 | Completed |

## SAMPLE DISPOSAL

## ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Golden Dawn Minerals
3929 West 30th Ave.
Vancouver BC V6S 1X2
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

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3929 West 30th Ave.
Vancouver BC V6S 1X2 Canada

Project: None Given
Report Date: November 02, 2007



# CERTIFICATE OF ANALYSIS VAN07000976.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| MDL | | 1 | 2 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 8 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 |
| GL-07 R1 | Rock | 11 | 182 | 4420 | 1868 | 20.0 | 6 | 23 | 486 | 16.78 | 256 | <8 | <2 | <2 | 85 | 12.5 | 51 | <3 | 80 | 0.66 | 0.283 |
| GL-07 R2 | Rock | 5 | 70 | 5272 | 112 | 5.2 | 5 | 8 | 88 | 2.21 | 304 | <8 | <2 | <2 | 576 | 0.7 | 27 | <3 | 10 | 0.13 | 0.052 |
| GL-07 R3 | Rock | 52 | 1968 | 1217 | 558 | 30.8 | 9 | 33 | 162 | 8.96 | 801 | <8 | <2 | <2 | 57 | 9.4 | 683 | <3 | 17 | 0.29 | 0.104 |
| GL-07 R4 | Rock | 8 | 66 | 97 | 101 | 1.1 | 9 | 16 | 1039 | 6.21 | 162 | <8 | <2 | <2 | 48 | 0.5 | 12 | 5 | 32 | 1.37 | 0.094 |
| GL-07 R5 | Rock | <1 | 22 | 84 | 387 | <0.3 | 3 | 4 | 510 | 6.39 | 13 | <8 | <2 | <2 | 39 | <0.5 | <3 | <3 | 57 | 0.15 | 0.070 |
| VMS/07 ER1 | Rock | 2 | 29 | 214 | 234 | 2.6 | 1 | 5 | 956 | 5.01 | 81 | <8 | <2 | <2 | 14 | 1.5 | 7 | <3 | 8 | 0.33 | 0.096 |
| VMS/07 ER2 | Rock | 11 | 103 | 3312 | 2227 | 7.9 | 3 | 10 | 1622 | 15.28 | 169 | <8 | <2 | <2 | 47 | 15.8 | 19 | <3 | 53 | 0.68 | 0.252 |
| VMS/07 ER3 | Rock | 5 | 421 | 1436 | 100 | 41.1 | 7 | 26 | 42 | 8.74 | 425 | <8 | <2 | <2 | 84 | 1.7 | 181 | <3 | 12 | 0.52 | 0.265 |
| VMS/07 ER4 | Rock | 47 | 286 | 4722 | 8631 | 12.0 | 3 | 19 | 197 | 17.31 | 357 | <8 | <2 | <2 | 37 | 90.9 | 135 | <3 | 44 | 0.50 | 0.244 |
| VMS/07 ER5 | Rock | <1 | 93 | 1472 | 303 | 2.0 | 5 | 6 | 503 | 3.99 | 25 | <8 | <2 | <2 | 692 | 0.7 | 12 | <3 | 29 | 0.22 | 0.091 |
| VMS/07 ER6 | Rock | 32 | 1304 | 953 | 349 | 16.3 | 7 | 27 | 177 | 6.61 | 578 | <8 | <2 | <2 | 53 | 5.8 | 443 | <3 | 13 | 0.32 | 0.122 |
| VMS/07 ER7 | Rock | 1 | 34 | 108 | 56 | <0.3 | 5 | 8 | 1082 | 10.70 | 233 | <8 | <2 | <2 | 48 | 0.6 | 6 | <3 | 15 | 1.74 | 0.092 |
| VMS/07 ER8 | Rock | 2 | 111 | 166 | 502 | 8.0 | 1 | 4 | 33 | 8.63 | 298 | <8 | <2 | <2 | 3 | 3.1 | 66 | <3 | 7 | <0.01 | 0.012 |
| VMS/07 ER9 | Rock | <1 | 17 | 221 | 522 | 2.9 | 1 | 8 | 976 | 5.38 | 151 | <8 | <2 | <2 | 42 | 2.7 | 5 | <3 | 17 | 0.90 | 0.136 |
| VMS/07 ER10 | Rock | 2 | 49 | 280 | 715 | 4.2 | 1 | 3 | 18 | 13.98 | 405 | <8 | <2 | <2 | 5 | 6.3 | 19 | <3 | 8 | <0.01 | 0.008 |
| VMS/07 R1 | Rock | 1 | 163 | 184 | 542 | 27.5 | 2 | 10 | 2075 | 7.66 | 323 | <8 | <2 | <2 | 74 | 4.3 | 44 | 7 | 24 | 1.13 | 0.126 |
| VMS/07 R2 | Rock | 5 | 94 | 887 | 490 | 18.8 | 5 | 12 | 3096 | 10.15 | 126 | <8 | <2 | <2 | 13 | 2.9 | 17 | 3 | 17 | 0.42 | 0.117 |
| VMS/07 R3 | Rock | 4 | 14 | 64 | 143 | 1.9 | <1 | 4 | 469 | 2.67 | 17 | <8 | <2 | <2 | 50 | <0.5 | <3 | <3 | 6 | 0.15 | 0.121 |
| VMS/07 R4 | Rock | 2 | 33 | 268 | 230 | 6.4 | <1 | 3 | 566 | 7.38 | 53 | <8 | <2 | <2 | 35 | <0.5 | <3 | 3 | 8 | 0.08 | 0.189 |
| VMS/07 R5 | Rock | 2 | 123 | 428 | 1507 | >100 | <1 | 2 | 638 | 4.98 | 248 | <8 | <2 | <2 | 118 | 10.9 | 115 | 4 | 8 | 0.83 | 0.099 |
| VMS/07 R6 | Rock | 3 | 14 | 598 | 265 | 17.1 | 1 | 4 | 926 | 4.43 | 169 | <8 | <2 | <2 | 57 | 2.4 | 14 | <3 | 17 | 0.78 | 0.088 |
| VMS/07 R7 | Rock | 1 | 16 | 91 | 123 | 5.6 | 1 | 6 | 735 | 4.33 | 229 | <8 | <2 | 3 | 42 | 0.7 | 16 | <3 | 23 | 0.28 | 0.123 |
| VMS/07 R8 | Rock | 7 | 26 | 108 | 227 | 7.0 | 1 | 8 | 1021 | 5.18 | 159 | 9 | <2 | 3 | 31 | 1.5 | 10 | <3 | 13 | 0.19 | 0.120 |
| VMS/07 R9 | Rock | <1 | 57 | 45 | 73 | 2.9 | <1 | 5 | 609 | 4.42 | 144 | <8 | <2 | 4 | 89 | <0.5 | 14 | 4 | 21 | 0.37 | 0.150 |
| VMS/07 R10 | Rock | 3 | 448 | 71 | 457 | 4.4 | 1 | 8 | 4506 | 14.25 | 599 | <8 | <2 | <2 | 38 | 3.1 | 49 | <3 | 39 | 0.43 | 0.106 |
| VMS/07 R11 | Rock | 2 | 33 | 811 | 3104 | 5.1 | 1 | 4 | 427 | 7.56 | 42 | <8 | <2 | <2 | 16 | 20.4 | 9 | 3 | 19 | 0.17 | 0.138 |
| VMS/07 R12 | Rock | 1 | 55 | 1043 | 3354 | 4.5 | 3 | 9 | 1568 | 8.35 | 260 | <8 | <2 | <2 | 15 | 24.1 | 6 | <3 | 19 | 0.32 | 0.133 |
| VMS/07 R13 | Rock | 1 | 25 | 107 | 242 | 1.7 | 2 | 9 | 706 | 6.13 | 590 | <8 | <2 | 2 | 21 | 1.4 | 6 | <3 | 15 | 0.31 | 0.123 |
| VMS/07 R14 | Rock | 2 | 42 | 238 | 83 | 5.2 | 4 | 10 | 588 | 10.05 | 85 | <8 | <2 | <2 | 18 | <0.5 | 4 | <3 | 13 | 0.69 | 0.044 |
| VMS/07 R15 | Rock | 1 | 11 | 177 | 71 | 2.2 | <1 | 2 | 386 | 3.54 | 168 | <8 | <2 | <2 | 14 | <0.5 | 6 | 4 | 7 | 0.08 | 0.033 |

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Vancouver BC V6S 1X2 Canada

Project: None Given
Report Date: November 02, 2007



# CERTIFICATE OF ANALYSIS VAN07000976.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| Unit | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| MDL | | 1 | 1 | 0.01 | 1 | 0.01 | 10 | 0.01 | 0.01 | 0.01 | 2 |
| GL-07 R1 | Rock | 1 | 13 | 0.24 | 11 | <0.01 | <10 | 1.32 | 0.02 | 0.04 | <2 |
| GL-07 R2 | Rock | <1 | 18 | 0.06 | 144 | <0.01 | <10 | 0.40 | 0.01 | 0.02 | <2 |
| GL-07 R3 | Rock | <1 | 13 | 0.10 | 9 | <0.01 | <10 | 0.42 | 0.01 | 0.03 | <2 |
| GL-07 R4 | Rock | 2 | 7 | 0.42 | 33 | <0.01 | 32 | 1.21 | 0.02 | 0.22 | <2 |
| GL-07 R5 | Rock | <1 | 4 | 1.40 | 172 | <0.01 | <10 | 2.66 | 0.03 | 0.09 | <2 |
| VMS/07 ER1 | Rock | 7 | <1 | 0.09 | 74 | <0.01 | <10 | 0.44 | <0.01 | 0.28 | <2 |
| VMS/07 ER2 | Rock | 3 | 9 | 0.28 | 24 | <0.01 | <10 | 1.32 | 0.02 | 0.16 | <2 |
| VMS/07 ER3 | Rock | <1 | 10 | <0.01 | 6 | <0.01 | <10 | 0.21 | 0.02 | 0.04 | <2 |
| VMS/07 ER4 | Rock | 1 | 12 | 0.09 | 12 | <0.01 | <10 | 0.75 | 0.01 | 0.12 | <2 |
| VMS/07 ER5 | Rock | <1 | 8 | 0.39 | 206 | <0.01 | <10 | 1.26 | 0.04 | 0.09 | <2 |
| VMS/07 ER6 | Rock | <1 | 13 | 0.06 | 15 | <0.01 | <10 | 0.31 | <0.01 | 0.02 | <2 |
| VMS/07 ER7 | Rock | 2 | 6 | 0.41 | 18 | <0.01 | 43 | 0.97 | 0.02 | 0.16 | <2 |
| VMS/07 ER8 | Rock | 4 | 1 | <0.01 | 32 | <0.01 | <10 | 0.28 | <0.01 | 0.20 | <2 |
| VMS/07 ER9 | Rock | 6 | 1 | 0.15 | 119 | <0.01 | <10 | 0.43 | <0.01 | 0.30 | <2 |
| VMS/07 ER10 | Rock | 2 | <1 | <0.01 | 9 | <0.01 | <10 | 0.28 | <0.01 | 0.20 | <2 |
| VMS/07 R1 | Rock | 5 | <1 | 0.18 | 49 | <0.01 | <10 | 0.43 | <0.01 | 0.30 | <2 |
| VMS/07 R2 | Rock | 3 | <1 | 0.04 | 124 | <0.01 | <10 | 0.49 | <0.01 | 0.29 | <2 |
| VMS/07 R3 | Rock | 7 | <1 | 0.01 | 605 | <0.01 | <10 | 0.45 | <0.01 | 0.30 | <2 |
| VMS/07 R4 | Rock | 6 | <1 | 0.01 | 390 | <0.01 | <10 | 0.42 | <0.01 | 0.31 | <2 |
| VMS/07 R5 | Rock | 5 | <1 | 0.01 | 223 | <0.01 | <10 | 0.35 | <0.01 | 0.26 | <2 |
| VMS/07 R6 | Rock | 5 | 3 | 0.09 | 87 | <0.01 | <10 | 0.35 | <0.01 | 0.28 | <2 |
| VMS/07 R7 | Rock | 9 | 1 | 0.02 | 160 | <0.01 | <10 | 0.45 | 0.03 | 0.30 | <2 |
| VMS/07 R8 | Rock | 9 | 1 | 0.02 | 183 | <0.01 | <10 | 0.46 | 0.01 | 0.32 | <2 |
| VMS/07 R9 | Rock | 12 | <1 | 0.03 | 180 | <0.01 | <10 | 0.49 | 0.03 | 0.35 | <2 |
| VMS/07 R10 | Rock | 6 | <1 | 0.37 | 67 | <0.01 | <10 | 0.44 | <0.01 | 0.35 | <2 |
| VMS/07 R11 | Rock | 2 | <1 | 0.13 | 329 | <0.01 | <10 | 0.67 | <0.01 | 0.24 | <2 |
| VMS/07 R12 | Rock | 2 | <1 | 0.22 | 93 | <0.01 | <10 | 0.57 | <0.01 | 0.24 | <2 |
| VMS/07 R13 | Rock | 6 | <1 | 0.05 | 95 | <0.01 | <10 | 0.43 | <0.01 | 0.29 | <2 |
| VMS/07 R14 | Rock | <1 | <1 | 0.10 | 29 | <0.01 | <10 | 0.39 | <0.01 | 0.21 | <2 |
| VMS/07 R15 | Rock | 9 | 2 | <0.01 | 135 | <0.01 | <10 | 0.32 | <0.01 | 0.27 | <2 |

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3929 West 30th Ave.
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Project: None Given
Report Date: November 02, 2007



# CERTIFICATE OF ANALYSIS VAN07000976.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| MDL | | 1 | 2 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 8 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 |
| VMS/07 R16 | Rock | 1 | 4173 | 18 | 88 | 0.5 | 4 | 6 | 1964 | 5.78 | 20 | <8 | <2 | <2 | 101 | 1.1 | <3 | 6 | 33 | 3.71 | 0.088 |
| VMS/07 R17 | Rock | 5 | >10000 | 117 | 119 | 6.0 | 4 | 9 | 2459 | 6.67 | 21 | <8 | <2 | 2 | 132 | 2.1 | <3 | 5 | 38 | 5.30 | 0.109 |
| VMS/07 R18 | Rock | 20 | 7920 | 778 | 254 | 2.5 | 2 | 5 | 2206 | 6.26 | 7 | <8 | <2 | <2 | 115 | 2.0 | <3 | 5 | 32 | 3.77 | 0.060 |
| VMS/07 R19 | Rock | 4 | >10000 | 6 | 106 | 0.6 | 4 | 16 | 2183 | 10.30 | 2 | <8 | <2 | 2 | 37 | 0.5 | <3 | <3 | 70 | 1.65 | 0.122 |
| VMS/07 R20 | Rock | 6 | 3529 | 30 | 159 | 1.0 | 5 | 10 | 2474 | 6.29 | 6 | 16 | <2 | <2 | 181 | 1.4 | <3 | 7 | 41 | 4.72 | 0.101 |
| VMS/07 R21 | Rock | <1 | 473 | 10 | 99 | <0.3 | 4 | 4 | 1489 | 9.36 | 7 | 21 | <2 | <2 | 45 | 0.9 | <3 | 6 | 80 | 1.45 | 0.108 |
| VMS/07 R22 | Rock | <1 | >10000 | 247 | 117 | 1.7 | 6 | 8 | 1838 | 10.52 | 20 | 16 | 2 | <2 | 51 | 1.6 | <3 | 7 | 33 | 1.99 | 0.057 |
| VMS/07 R23 | Rock | 3 | 57 | 3327 | 289 | 12.2 | <1 | 1 | 3517 | 11.07 | 94 | 18 | <2 | <2 | 16 | 2.3 | 14 | 5 | 12 | 0.42 | 0.098 |
| VMS/07 R24 | Rock | 2 | 80 | 106 | 173 | 2.3 | 2 | 11 | 3429 | 10.64 | 98 | <8 | <2 | <2 | 18 | <0.5 | 9 | <3 | 11 | 0.40 | 0.101 |
| VMS/07 R25 | Rock | 1 | 25 | 51 | 140 | 0.9 | 2 | 9 | 1839 | 5.89 | 42 | <8 | <2 | <2 | 26 | 1.3 | 4 | <3 | 10 | 0.50 | 0.131 |
| VMS/07 R26 | Rock | 23 | 156 | 3119 | 8281 | 3.9 | 9 | 47 | 1785 | 7.06 | 554 | <8 | <2 | <2 | 101 | 107.7 | 5 | <3 | 6 | 2.75 | 0.105 |
| VMS/07 R27 | Rock | 13 | 586 | 6196 | >10000 | 4.4 | 9 | 61 | 4189 | 4.52 | 152 | <8 | <2 | <2 | 348 | 198.3 | 3 | <3 | 21 | 4.09 | 0.115 |
| VMS/07 R28 | Rock | 5 | 1445 | >10000 | >10000 | 9.9 | 13 | 63 | 5569 | 5.02 | 231 | 10 | <2 | <2 | 277 | 633.3 | 11 | <3 | 30 | 2.62 | 0.076 |
| VMS/07 R29 | Rock | 2 | 148 | >10000 | >10000 | 9.2 | 10 | 44 | 5141 | 3.56 | 251 | <8 | <2 | <2 | 198 | 802.7 | 17 | <3 | 13 | 4.46 | 0.080 |
| VMS/07 R30 | Rock | 5 | 93 | 8629 | >10000 | 8.4 | 9 | 37 | 5253 | 3.43 | 260 | <8 | <2 | <2 | 200 | 422.3 | 11 | <3 | 14 | 4.66 | 0.095 |
| VMS/07 R31 | Rock | 112 | 294 | 86 | 181 | 0.7 | 10 | 132 | 2611 | 5.35 | 16 | <8 | <2 | <2 | 128 | 2.7 | <3 | 5 | 17 | 7.52 | 0.041 |
| VMS/07 R32 | Rock | <1 | 59 | 439 | 1306 | 12.6 | <1 | 5 | 1037 | 9.84 | 873 | <8 | <2 | <2 | 40 | 6.6 | 10 | <3 | 11 | 0.92 | 0.083 |
| VMS/07 R33 | Rock | 6 | 24 | 645 | 520 | 1.8 | 2 | <1 | 84 | 2.37 | 75 | <8 | <2 | <2 | 7 | 3.7 | 16 | <3 | 4 | 0.03 | 0.024 |
| VMS/07 R34 | Rock | 3 | 9 | 72 | 12 | 1.5 | 2 | 3 | 21 | 8.30 | 119 | <8 | <2 | <2 | 18 | <0.5 | 16 | <3 | 4 | <0.01 | 0.034 |
| VMS/07 R35 | Rock | <1 | 30 | 676 | 419 | 6.0 | <1 | <1 | 165 | 3.99 | 120 | <8 | <2 | <2 | 12 | 0.9 | 31 | <3 | 16 | 0.03 | 0.074 |
| VMS/07 R36 | Rock | 1 | 20 | 264 | 1006 | 3.9 | 2 | 3 | 27 | 6.53 | 240 | <8 | <2 | <2 | 3 | 5.4 | 29 | <3 | 4 | <0.01 | 0.011 |
| VMS/07 R37 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R38 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R39 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R40 | Rock | 2 | 63 | 377 | 431 | 3.2 | 2 | 5 | 1588 | 9.48 | 151 | <8 | <2 | <2 | 11 | 2.3 | 16 | <3 | 12 | 0.32 | 0.103 |
| MIDDLE GOSSON | Rock | 6 | 18 | 386 | 1021 | 1.5 | 2 | 2 | 19 | 4.64 | 79 | <8 | <2 | <2 | 12 | 10.2 | 15 | <3 | 3 | <0.01 | 0.020 |
| R007 FRESA | Rock | <1 | 24 | 54 | 89 | 8.6 | 1 | 8 | 613 | 2.19 | 39 | <8 | <2 | 3 | 36 | <0.5 | 8 | <3 | 10 | 0.54 | 0.138 |
| NO NUMBER 1 | Rock | <1 | 32 | 356 | 689 | 3.4 | 2 | 2 | 932 | 4.97 | 111 | <8 | <2 | <2 | 20 | 2.7 | 12 | <3 | 12 | 0.53 | 0.066 |
| NO NUMBER 2 | Rock | <1 | 489 | >10000 | >10000 | 23.3 | 6 | 22 | 7520 | 1.80 | 119 | <8 | <2 | <2 | 375 | 508.7 | 112 | <3 | 9 | 8.23 | 0.025 |

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## CERTIFICATE OF ANALYSIS VAN07000976.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| Unit | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| MDL | | 1 | 1 | 0.01 | 1 | 0.01 | 10 | 0.01 | 0.01 | 0.01 | 2 |
| VMS/07 R16 | Rock | 7 | 5 | 0.85 | 198 | 0.01 | <10 | 2.06 | <0.01 | 0.16 | 10 |
| VMS/07 R17 | Rock | 9 | 4 | 1.01 | 327 | 0.01 | <10 | 2.39 | <0.01 | 0.25 | <2 |
| VMS/07 R18 | Rock | 9 | 3 | 1.32 | 283 | <0.01 | <10 | 2.69 | <0.01 | 0.17 | 7 |
| VMS/07 R19 | Rock | 7 | 2 | 1.73 | 60 | 0.02 | <10 | 4.01 | <0.01 | 0.22 | <2 |
| VMS/07 R20 | Rock | 7 | 7 | 1.14 | 338 | <0.01 | <10 | 2.71 | <0.01 | 0.20 | 2 |
| VMS/07 R21 | Rock | 16 | 10 | 0.99 | 108 | 0.02 | <10 | 2.85 | <0.01 | 0.23 | 27 |
| VMS/07 R22 | Rock | 8 | 5 | 1.18 | 48 | <0.01 | <10 | 2.91 | <0.01 | 0.10 | 27 |
| VMS/07 R23 | Rock | 9 | 3 | 0.22 | 64 | <0.01 | <10 | 0.41 | <0.01 | 0.25 | <2 |
| VMS/07 R24 | Rock | 4 | 1 | 0.01 | 41 | <0.01 | 13 | 0.37 | <0.01 | 0.14 | <2 |
| VMS/07 R25 | Rock | 4 | 2 | 0.32 | 100 | <0.01 | 14 | 0.36 | 0.01 | 0.22 | <2 |
| VMS/07 R26 | Rock | 6 | 2 | 0.09 | 48 | <0.01 | <10 | 0.40 | 0.01 | 0.17 | 4 |
| VMS/07 R27 | Rock | 6 | 2 | 0.55 | 60 | <0.01 | <10 | 1.45 | <0.01 | 0.18 | <2 |
| VMS/07 R28 | Rock | 4 | 2 | 0.69 | 82 | <0.01 | <10 | 1.63 | <0.01 | 0.11 | <2 |
| VMS/07 R29 | Rock | 5 | 6 | 0.41 | 65 | <0.01 | <10 | 0.72 | 0.01 | 0.16 | <2 |
| VMS/07 R30 | Rock | 5 | 4 | 0.50 | 159 | <0.01 | <10 | 0.77 | 0.01 | 0.13 | 4 |
| VMS/07 R31 | Rock | 6 | 4 | 0.36 | 70 | <0.01 | <10 | 1.33 | <0.01 | 0.12 | <2 |
| VMS/07 R32 | Rock | 3 | 2 | 0.24 | 28 | <0.01 | 16 | 0.20 | <0.01 | 0.15 | <2 |
| VMS/07 R33 | Rock | <1 | 7 | <0.01 | 64 | <0.01 | 16 | 0.08 | <0.01 | 0.08 | <2 |
| VMS/07 R34 | Rock | 3 | 3 | <0.01 | 26 | <0.01 | <10 | 0.19 | <0.01 | 0.16 | <2 |
| VMS/07 R35 | Rock | 14 | 2 | <0.01 | 141 | <0.01 | 12 | 0.21 | <0.01 | 0.19 | <2 |
| VMS/07 R36 | Rock | 3 | 4 | <0.01 | 44 | <0.01 | 13 | 0.16 | <0.01 | 0.13 | 2 |
| VMS/07 R37 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R38 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R39 | Rock | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS/07 R40 | Rock | 5 | 2 | 0.23 | 30 | <0.01 | 12 | 0.27 | <0.01 | 0.16 | 2 |
| MIDDLE GOSSON | Rock | 2 | 6 | <0.01 | 51 | <0.01 | 16 | 0.12 | <0.01 | 0.10 | 4 |
| R007 FRESA | Rock | 12 | 1 | 0.03 | 117 | <0.01 | <10 | 0.33 | <0.01 | 0.21 | <2 |
| NO NUMBER 1 | Rock | 3 | 10 | 0.14 | 119 | <0.01 | 13 | 0.12 | <0.01 | 0.09 | <2 |
| NO NUMBER 2 | Rock | 5 | 4 | 0.40 | 209 | <0.01 | <10 | 0.53 | <0.01 | 0.06 | 9 |

From ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716 @
To Golden Dawn Minerals
Acme file # A707248 Received: DEC 4 2007 * 8 samples in this disk file.
Analysis: GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.

| ELEMENT | Mo | Cu | Pb | Zn | Ag** | Ni | Co | Mn | Fe | As | Sr | Cd |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SAMPLES | % | % | % | % | gm/mt | % | % | % | % | % | % | % |
| VMS-07 R17 | 0.001 | 2.556 | 0.01 | 0.01 | 8 | 0.001 | 0.001 | 0.25 | 7.78 | <.01 | 0.013 | <.001 |
| VMS-07 R18 | 0.002 | 0.804 | 0.08 | 0.03 | 3 | <.001 | 0.001 | 0.22 | 7.1 | <.01 | 0.012 | <.001 |
| VMS-07 R19 | .001 | 1.04 | <.01 | 0.01 | <2 | 0.001 | 0.002 | 0.23 | 11.02 | <.01 | 0.004 | <.001 |
| VMS-07 R22 | .001 | 2.051 | 0.02 | 0.01 | <2 | 0.001 | 0.001 | 0.18 | 12.6 | <.01 | 0.005 | <.001 |
| VMS-07 R26 | 0.001 | 0.16 | 2.44 | 5.05 | 11 | 0.001 | 0.007 | 0.63 | 5.62 | 0.03 | 0.095 | 0.092 |
| VMS-07 R29 | .001 | 0.014 | 1.33 | 3.63 | 9 | 0.001 | 0.005 | 0.56 | 3.44 | 0.03 | 0.04 | 0.061 |
| VMS-07 R30 | 0.001 | 0.01 | 0.99 | 2.45 | 9 | 0.001 | 0.004 | 0.58 | 3.39 | 0.03 | 0.026 | 0.045 |
| STANDAR | 0.076 | 0.77 | 2.04 | 3.97 | 194 | 0.542 | 0.06 | 0.07 | 31.28 | 0.04 | 0.003 | 0.023 |

CSV TEXT FORMAT

| Sb % | Bi % | Ca % | P % | Cr % | Mg % | Al % | Na % | K % | W % | Hg % | Au** gm/mt |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.001 | <.01 | 5.35 | 0.111 | <.001 | 1 | 2.53 | 0.01 | 0.38 | <.001 | <.001 | 0.33 |
| <.001 | <.01 | 4 | 0.062 | 0.001 | 1.33 | 2.8 | 0.02 | 0.27 | 0.001 | <.001 | 0.09 |
| <.001 | <.01 | 1.75 | 0.126 | <.001 | 1.79 | 4.06 | 0.01 | 0.34 | <.001 | <.001 | 0.07 |
| <.001 | <.01 | 2.1 | 0.054 | <.001 | 1.19 | 3.14 | 0.01 | 0.19 | 0.005 | <.001 | 3.6 |
| <.001 | <.01 | 2.93 | 0.082 | <.001 | 0.8 | 1.93 | 0.01 | 0.21 | <.001 | 0.004 | 0.06 |
| 0.001 | <.01 | 4.59 | 0.084 | 0.001 | 0.45 | 0.85 | 0.02 | 0.22 | <.001 | 0.002 | 0.06 |
| <.001 | <.01 | 5.26 | 0.099 | <.001 | 0.55 | 0.83 | 0.02 | 0.18 | <.001 | 0.002 | 0.07 |
| 0.036 | <.01 | 1.27 | 0.045 | 0.012 | 1.02 | 1.05 | 0.03 | 0.43 | <.001 | 0.002 | 3.55 |

ACME ANALYTICAL LABORATORIES LTD.
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Phone (604) 253-3158 Fax (604) 253-1716 www.acmelab.com

**Client:** **Golden Dawn Minerals**
3929 West 30th Ave.
Vancouver BC V6S 1X2 Canada

Submitted By: Fayz Yacoub
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: August 31, 2007
Report Date: October 18, 2007
Page: 1 of 2

# CERTIFICATE OF ANALYSIS VAN07000977.1

## CLIENT JOB INFORMATION

Project: NONE GIVEN
Shipment ID:
P.O. Number
Number of Samples: 17

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Method Code | Number of Samples | Code Description | Test Wgt (g) | Report Status |
|---|---|---|---|---|
| SS80 | 17 | Dry at 60C sieve 100g to -80 mesh | | |
| 1D | 17 | 1:1:1 Aqua Regia digestion ICP-ES analysis | 0.5 | Completed |

## SAMPLE DISPOSAL

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

## ADDITIONAL COMMENTS

Invoice To: Golden Dawn Minerals
3929 West 30th Ave.
Vancouver BC V6S 1X2
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Golden Dawn Minerals**
3929 West 30th Ave.
Vancouver BC V6S 1X2 Canada

Project: NONE GIVEN
Report Date: October 18, 2007



# CERTIFICATE OF ANALYSIS VAN07000977.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| Unit | | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| MDL | | 1 | 1 | 3 | 1 | 0.3 | 1 | 1 | 1 | 0.01 | 2 | 8 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 |
| GL-07-07 S1 | Stream Sedime | <1 | 56 | 10 | 86 | <0.3 | 9 | 10 | 778 | 3.50 | 8 | <8 | <2 | <2 | 18 | <0.5 | <3 | <3 | 40 | 0.40 | 0.142 |
| VMS-07 S-001 | Stream Sedime | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS-07 S-002 | Stream Sedime | <1 | 61 | 163 | 306 | 1.1 | 13 | 11 | 2899 | 4.29 | 34 | <8 | <2 | 3 | 68 | 1.0 | 11 | <3 | 53 | 0.60 | 0.240 |
| VMS-07 S-003 | Stream Sedime | 1 | 66 | 188 | 828 | 2.6 | 11 | 12 | 3511 | 5.73 | 58 | <8 | <2 | 3 | 55 | 4.0 | 16 | <3 | 33 | 0.54 | 0.239 |
| VMS-07 S-004 | Stream Sedime | 1 | 71 | 192 | 859 | 1.7 | 10 | 12 | 4002 | 5.14 | 56 | <8 | <2 | <2 | 55 | 4.8 | 14 | <3 | 25 | 0.48 | 0.207 |
| VMS-07 S-005 | Stream Sedime | 1 | 82 | 233 | 864 | 2.9 | 8 | 13 | 3489 | 5.86 | 67 | <8 | <2 | 3 | 58 | 4.6 | 16 | <3 | 33 | 0.66 | 0.291 |
| VMS-07 S-006 | Stream Sedime | 2 | 63 | 94 | 386 | 0.9 | 7 | 10 | 4017 | 4.30 | 80 | <8 | <2 | <2 | 61 | 1.8 | 11 | <3 | 23 | 0.42 | 0.191 |
| VMS-07 S-007 | Stream Sedime | 1 | 65 | 146 | 718 | 1.5 | 8 | 11 | 3353 | 4.54 | 44 | <8 | <2 | <2 | 57 | 3.8 | 12 | <3 | 28 | 0.47 | 0.207 |
| VMS-07 S-008 | Stream Sedime | 1 | 58 | 151 | 894 | 2.3 | 9 | 11 | 3423 | 4.92 | 47 | <8 | <2 | 3 | 55 | 3.4 | 12 | <3 | 31 | 0.51 | 0.214 |
| VMS-07 S-009 | Stream Sedime | 2 | 43 | 64 | 270 | 0.8 | 8 | 8 | 2874 | 3.71 | 38 | <8 | <2 | 2 | 48 | 0.7 | 11 | <3 | 28 | 0.38 | 0.156 |
| VMS-07 S-010 | Stream Sedime | 2 | 55 | 87 | 390 | 1.0 | 7 | 10 | 3856 | 4.29 | 62 | <8 | <2 | <2 | 54 | 1.8 | 12 | <3 | 23 | 0.36 | 0.161 |
| VMS-07 S-011 | Stream Sedime | 2 | 77 | 209 | 753 | 3.3 | 9 | 13 | 3554 | 5.52 | 65 | <8 | <2 | 2 | 61 | 3.6 | 15 | <3 | 35 | 0.58 | 0.249 |
| VMS-07 S-011A | Stream Sedime | <1 | 64 | 15 | 109 | <0.3 | 4 | 10 | 1420 | 3.21 | 6 | <8 | <2 | 2 | 89 | <0.5 | <3 | <3 | 45 | 2.22 | 0.189 |
| VMS-07 S-012 | Stream Sedime | 1 | 62 | 159 | 716 | 1.7 | 9 | 11 | 3578 | 4.89 | 47 | <8 | <2 | 2 | 57 | 3.6 | 13 | <3 | 29 | 0.49 | 0.212 |
| VMS-07 S-012A | Stream Sedime | <1 | 80 | 9 | 91 | <0.3 | 7 | 12 | 1127 | 3.70 | 9 | 8 | <2 | <2 | 77 | <0.5 | <3 | <3 | 64 | 2.97 | 0.154 |
| VMS-07 S-013 | Stream Sedime | <1 | 77 | 15 | 99 | <0.3 | 6 | 11 | 1246 | 3.56 | 9 | <8 | <2 | <2 | 76 | <0.5 | 3 | <3 | 57 | 2.40 | 0.174 |
| VMS-07 S-013A | Stream Sedime | <1 | 66 | 14 | 100 | <0.3 | 4 | 9 | 1287 | 3.18 | 7 | <8 | <2 | 2 | 100 | <0.5 | <3 | <3 | 44 | 1.95 | 0.171 |

ACME ANALYTICAL LABORATORIES LTD.
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3929 West 30th Ave.
Vancouver BC V6S 1X2 Canada

Project: NONE GIVEN
Report Date: October 18, 2007



# CERTIFICATE OF ANALYSIS VAN07000977.1

| Method | | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| Unit | | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| MDL | | 1 | 1 | 0.01 | 1 | 0.01 | 20 | 0.01 | 0.01 | 0.01 | 2 |
| GL-07-07 S1 | Stream Sediment | 6 | 8 | 0.60 | 141 | <0.01 | <20 | 1.35 | <0.01 | 0.03 | <2 |
| VMS-07 S-001 | Stream Sediment | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| VMS-07 S-002 | Stream Sediment | 8 | 9 | 0.41 | 622 | 0.02 | <20 | 0.89 | <0.01 | 0.04 | <2 |
| VMS-07 S-003 | Stream Sediment | 8 | 8 | 0.36 | 288 | 0.01 | <20 | 0.81 | <0.01 | 0.05 | <2 |
| VMS-07 S-004 | Stream Sediment | 8 | 6 | 0.33 | 370 | <0.01 | <20 | 0.78 | <0.01 | 0.05 | <2 |
| VMS-07 S-005 | Stream Sediment | 7 | 5 | 0.29 | 240 | 0.01 | <20 | 0.68 | <0.01 | 0.04 | <2 |
| VMS-07 S-006 | Stream Sediment | 8 | 5 | 0.20 | 281 | <0.01 | <20 | 0.58 | <0.01 | 0.05 | <2 |
| VMS-07 S-007 | Stream Sediment | 6 | 5 | 0.31 | 390 | <0.01 | <20 | 0.73 | <0.01 | 0.03 | <2 |
| VMS-07 S-008 | Stream Sediment | 7 | 5 | 0.32 | 349 | <0.01 | <20 | 0.74 | <0.01 | 0.05 | <2 |
| VMS-07 S-009 | Stream Sediment | 8 | 4 | 0.21 | 335 | <0.01 | <20 | 0.64 | <0.01 | 0.05 | <2 |
| VMS-07 S-010 | Stream Sediment | 8 | 4 | 0.21 | 318 | <0.01 | <20 | 0.64 | <0.01 | 0.05 | <2 |
| VMS-07 S-011 | Stream Sediment | 7 | 8 | 0.33 | 305 | 0.01 | <20 | 0.78 | <0.01 | 0.04 | <2 |
| VMS-07 S-011A | Stream Sediment | 11 | 4 | 0.86 | 386 | 0.03 | <20 | 1.17 | <0.01 | 0.07 | <2 |
| VMS-07 S-012 | Stream Sediment | 7 | 5 | 0.34 | 380 | <0.01 | <20 | 0.76 | <0.01 | 0.04 | <2 |
| VMS-07 S-012A | Stream Sediment | 8 | 9 | 1.16 | 236 | 0.02 | <20 | 1.52 | <0.01 | 0.07 | <2 |
| VMS-07 S-013 | Stream Sediment | 9 | 7 | 0.99 | 262 | 0.02 | <20 | 1.35 | <0.01 | 0.07 | <2 |
| VMS-07 S-013A | Stream Sediment | 11 | 4 | 0.79 | 372 | 0.03 | <20 | 1.06 | <0.01 | 0.07 | <2 |

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3929 West 30th Ave.
Vancouver BC V6S 1X2 Canada

Project: NONE GIVEN
Report Date: October 18, 2007



# QUALITY CONTROL REPORT VAN07000977.1

| | Method | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | U | Au | Th | Sr | Cd | Sb | Bi | V | Ca | P |
| | Unit | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % |
| | MDL | 1 | 2 | 3 | 1 | 0.3 | 1 | 1 | 2 | 0.01 | 2 | 8 | 2 | 2 | 1 | 0.5 | 3 | 3 | 1 | 0.01 | 0.001 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| VMS-07 S-001 | Stream Sedim | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| REP VMS-07 S-001 | QC | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS7 | Standard | 19 | 104 | 65 | 398 | 1.0 | 52 | 8 | 618 | 2.38 | 49 | <8 | <2 | 5 | 73 | 5.5 | 8 | 4 | 84 | 0.93 | 0.071 |
| STD DS7 | Standard | 21 | 105 | 70 | 395 | 0.4 | 54 | 9 | 621 | 2.50 | 53 | <8 | <2 | 5 | 74 | 5.5 | 9 | 5 | 87 | 0.97 | 0.073 |
| STD DS7 Expected | | 20.82 | 109 | 70.6 | 411 | 0.89 | 56 | 9.7 | 627 | 2.39 | 48.2 | 4.9 | 0.07 | 4.4 | 68.7 | 6.38 | 5.86 | 4.51 | 86 | 0.93 | 0.08 |
| BLK | Blank | <1 | <2 | <3 | <1 | <0.3 | <1 | <1 | <2 | <0.01 | <2 | <8 | <2 | <2 | <1 | <0.5 | <3 | <3 | <1 | <0.01 | <0.001 |

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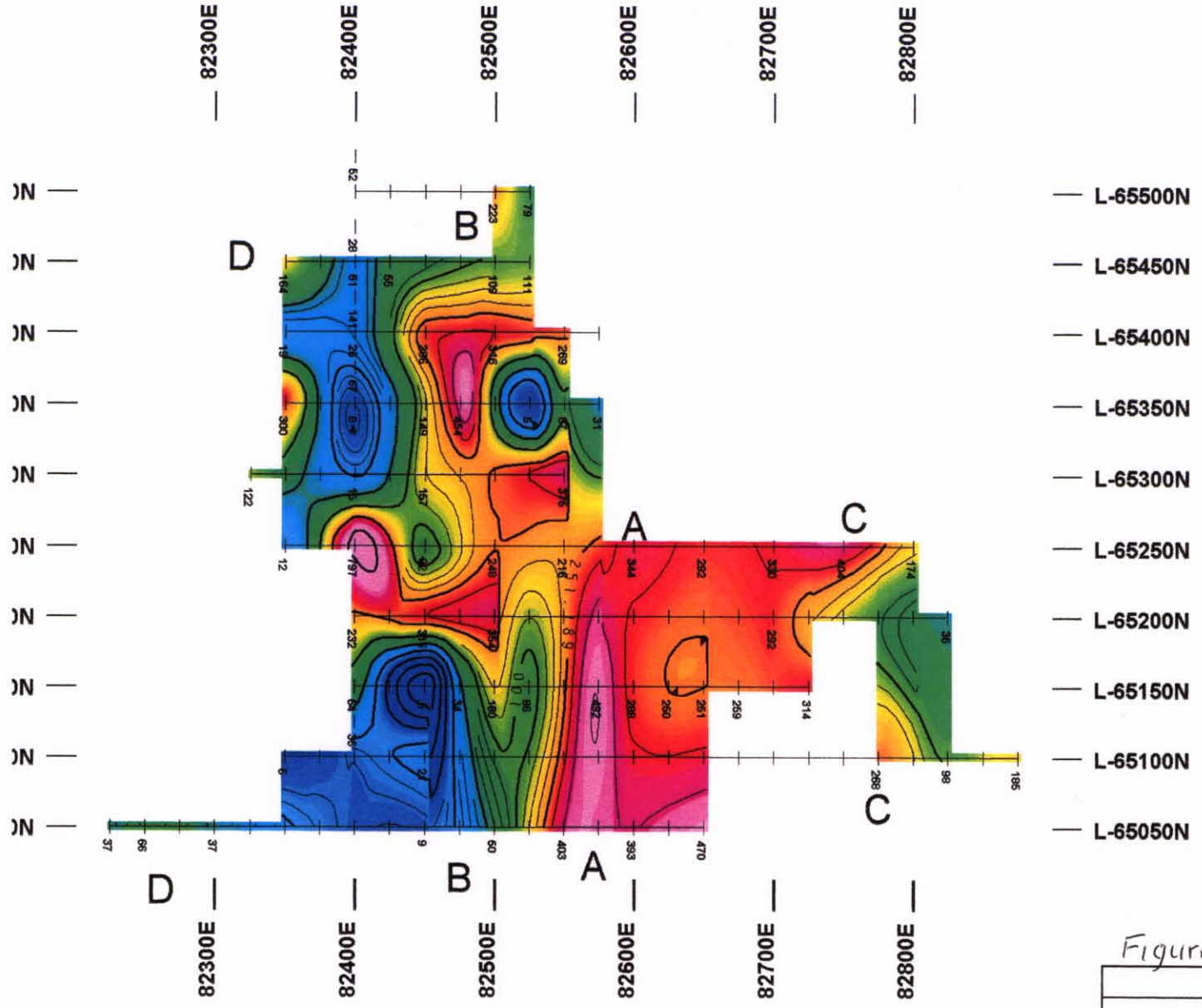
Vancouver BC V6S 1X2 Canada

Project: NONE GIVEN
Report Date: October 18, 2007



# QUALITY CONTROL REPORT VAN07000977.1

| | Method | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D | 1D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W |
| | Unit | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm |
| | MDL | 1 | 1 | 0.01 | 1 | 0.01 | 20 | 0.01 | 0.01 | 0.01 | 2 |
| Pulp Duplicates | | | | | | | | | | | |
| VMS-07 S-001 | Stream Sedim | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| REP VMS-07 S-001 | QC | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. | L.N.R. |
| Reference Materials | | | | | | | | | | | |
| STD DS7 | Standard | 11 | 198 | 1.11 | 386 | 0.11 | 34 | 0.98 | 0.09 | 0.45 | 5 |
| STD DS7 | Standard | 12 | 206 | 1.10 | 405 | 0.12 | 37 | 1.04 | 0.10 | 0.47 | 5 |
| STD DS7 Expected | | 12.7 | 163 | 1.05 | 370.3 | 0.124 | 38.6 | 0.959 | 0.073 | 0.44 | 3.8 |
| BLK | Blank | <1 | <1 | <0.01 | <1 | <0.01 | <20 | <0.01 | <0.01 | <0.01 | <2 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-1

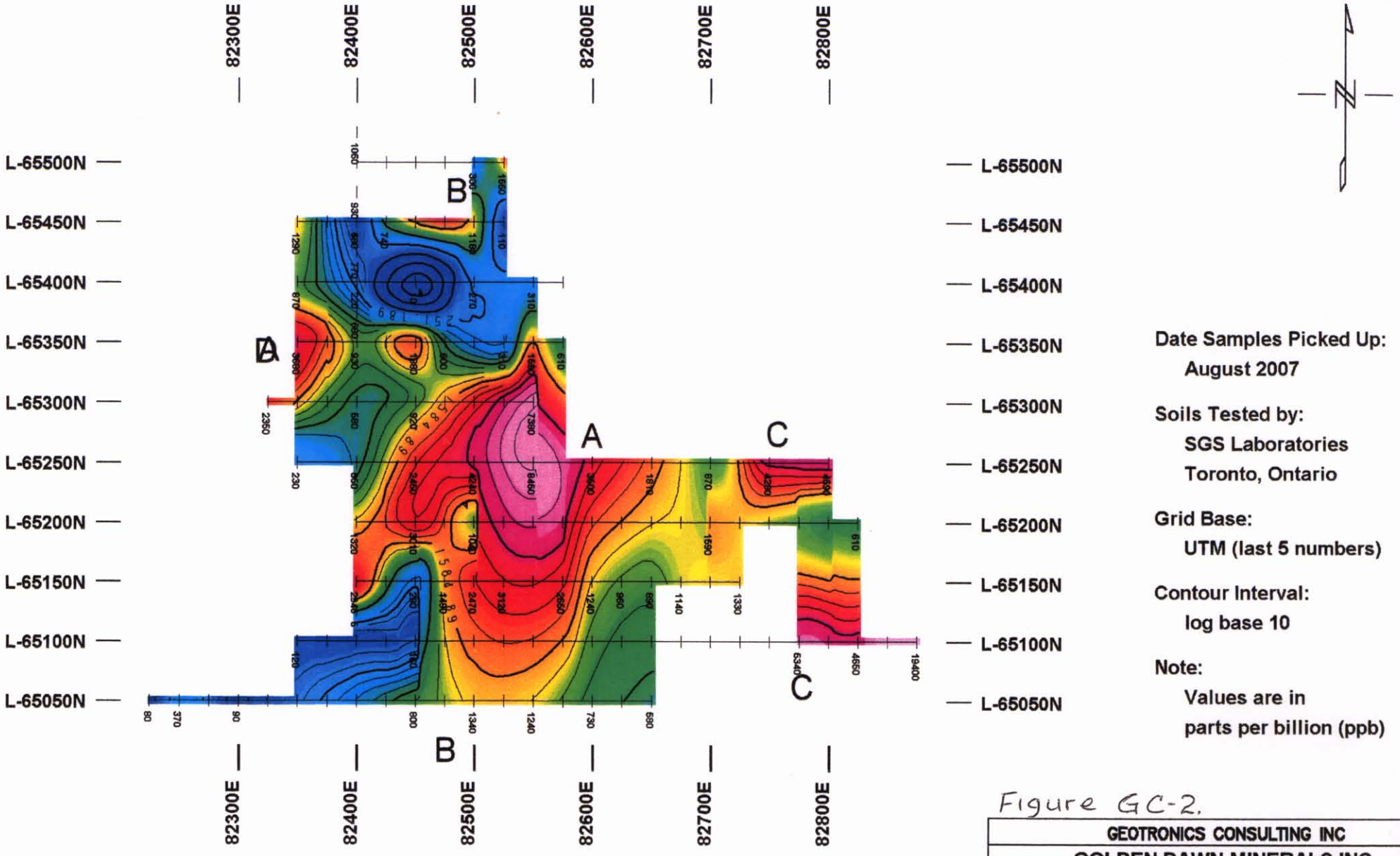
Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>SILVER*** | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No.<br>GC-1 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

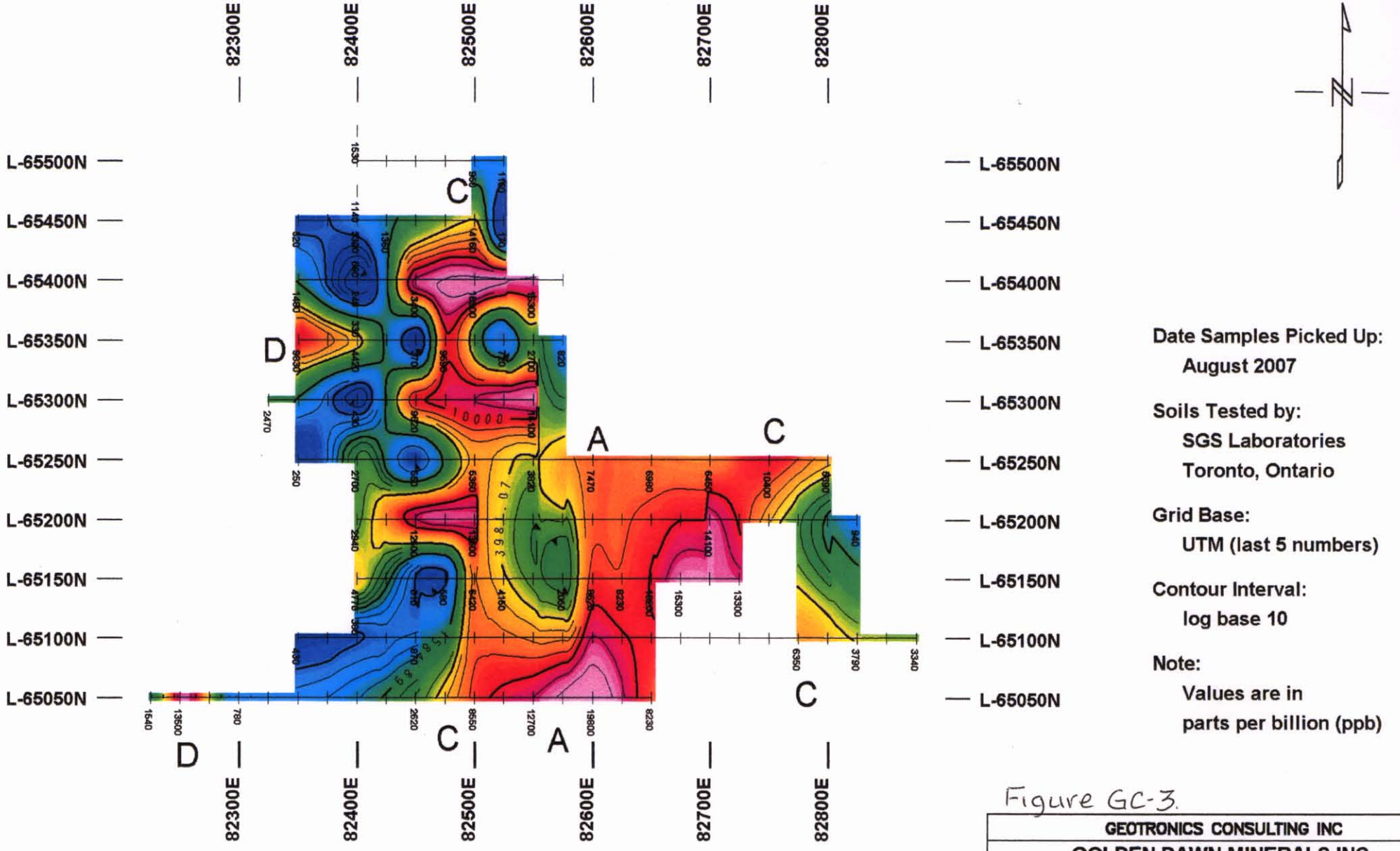
50 0 50 100 150 200 250
(metres)

Data Reduced by:

**GEOTRONICS CONSULTING INC**
**SURREY BC.**

Figure GC-2.

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>LEAD*** | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No<br>GC- |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-3.

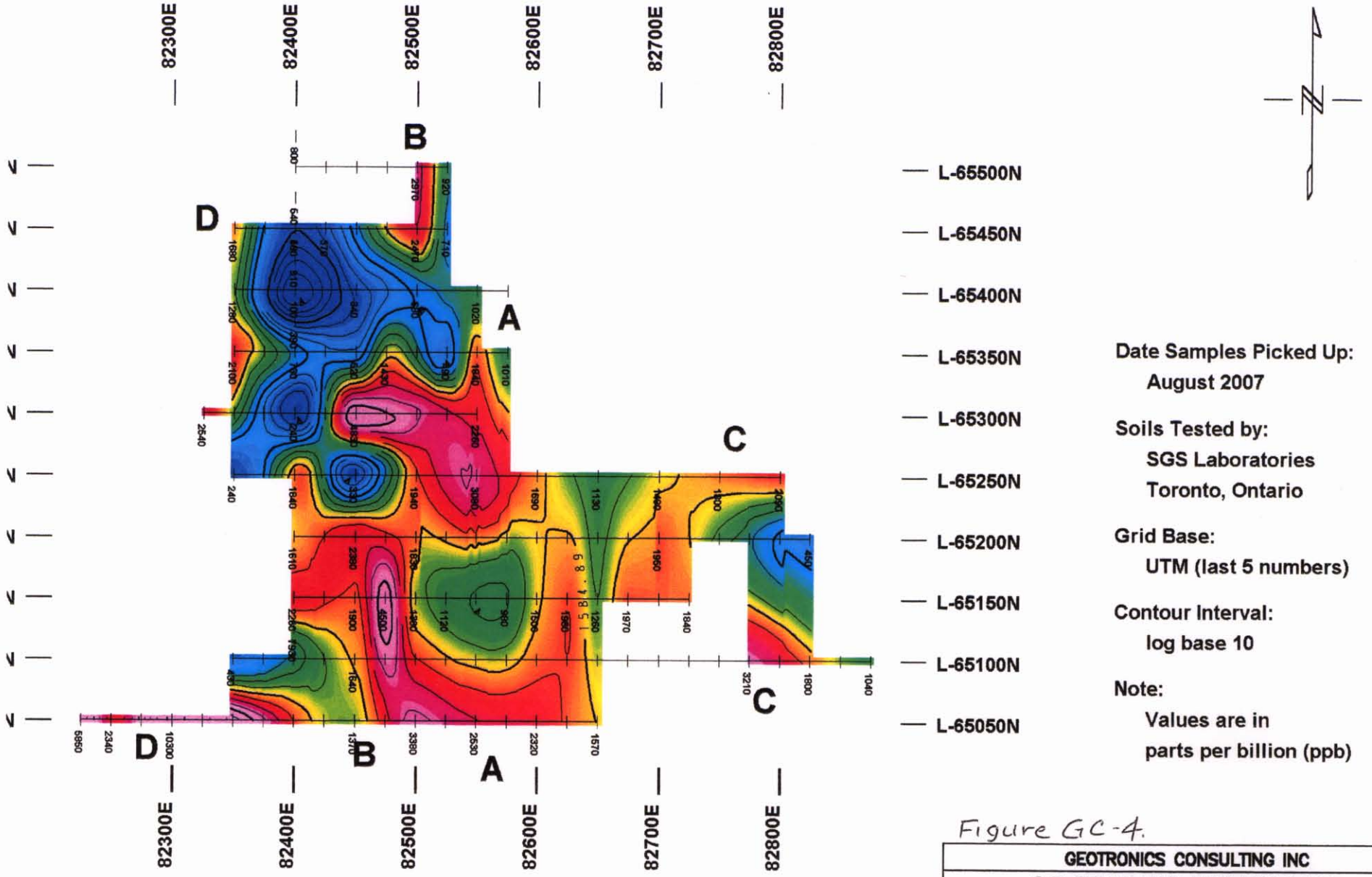
Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>ZINC Figure GC-3 | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig<br>G |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-4.

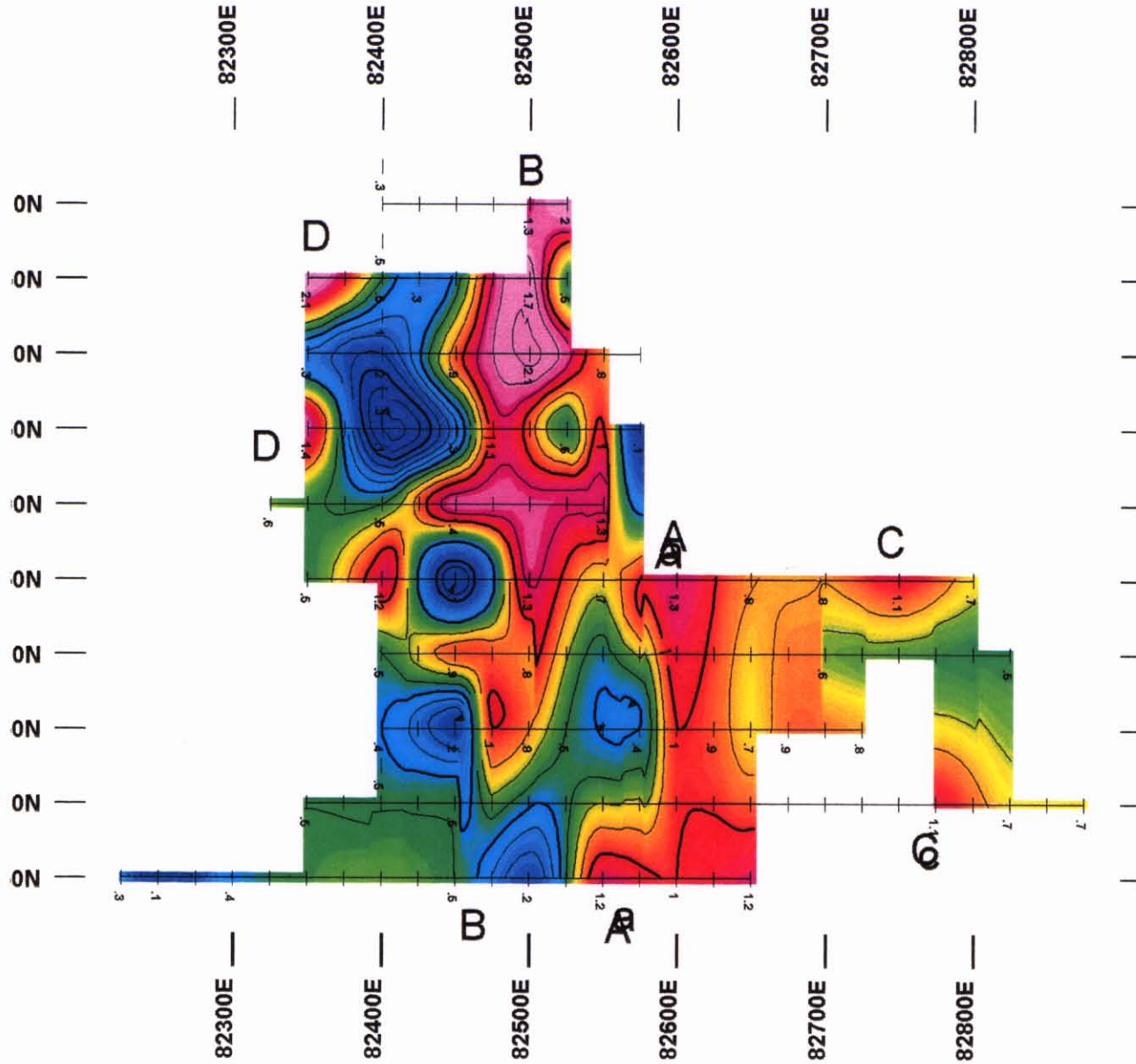
Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>COPPER*** | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No.<br>GC-4 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-5.

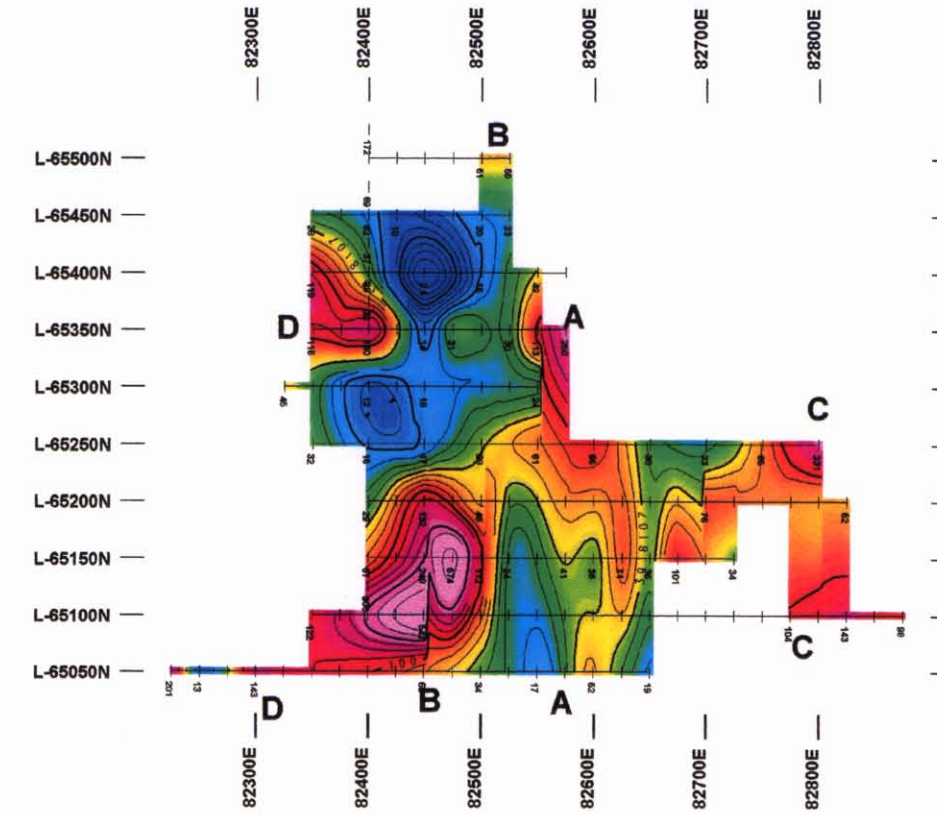
Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>GOLD*** | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No.<br>GC-5 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-6.

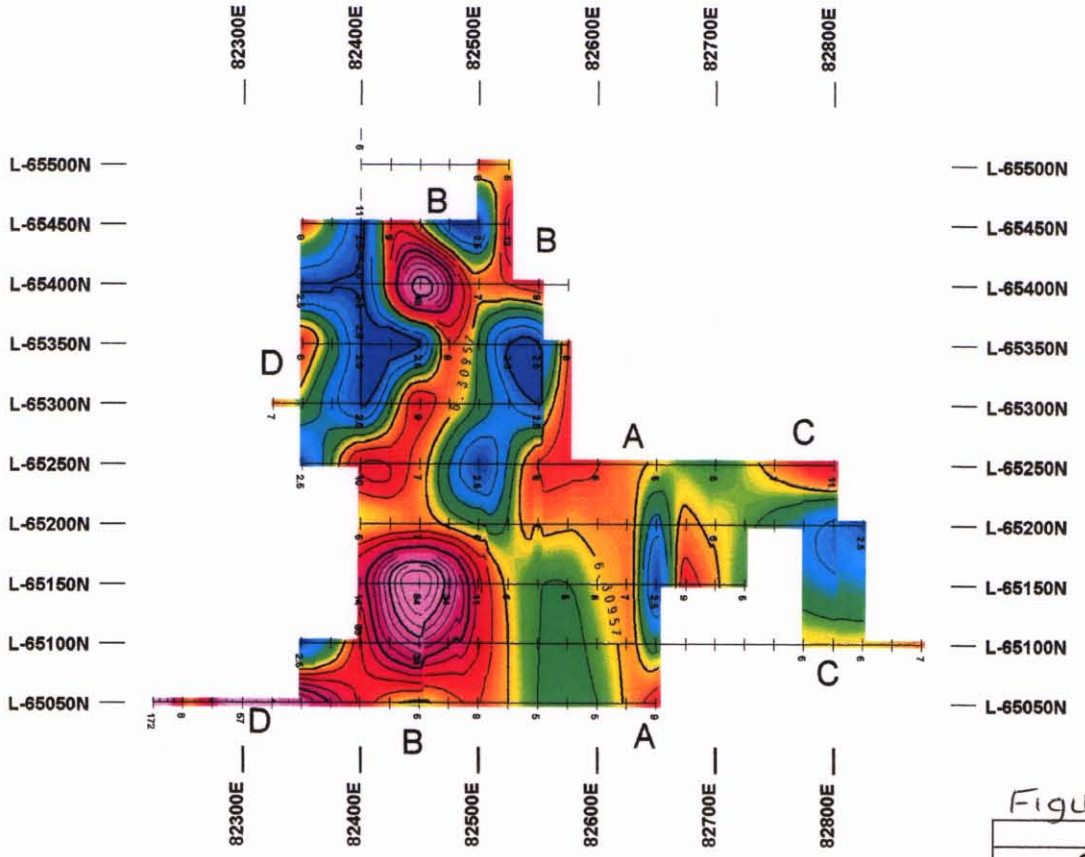
Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>COBALT*** | | | | |
| Drawn by<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No.<br>GC-6 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

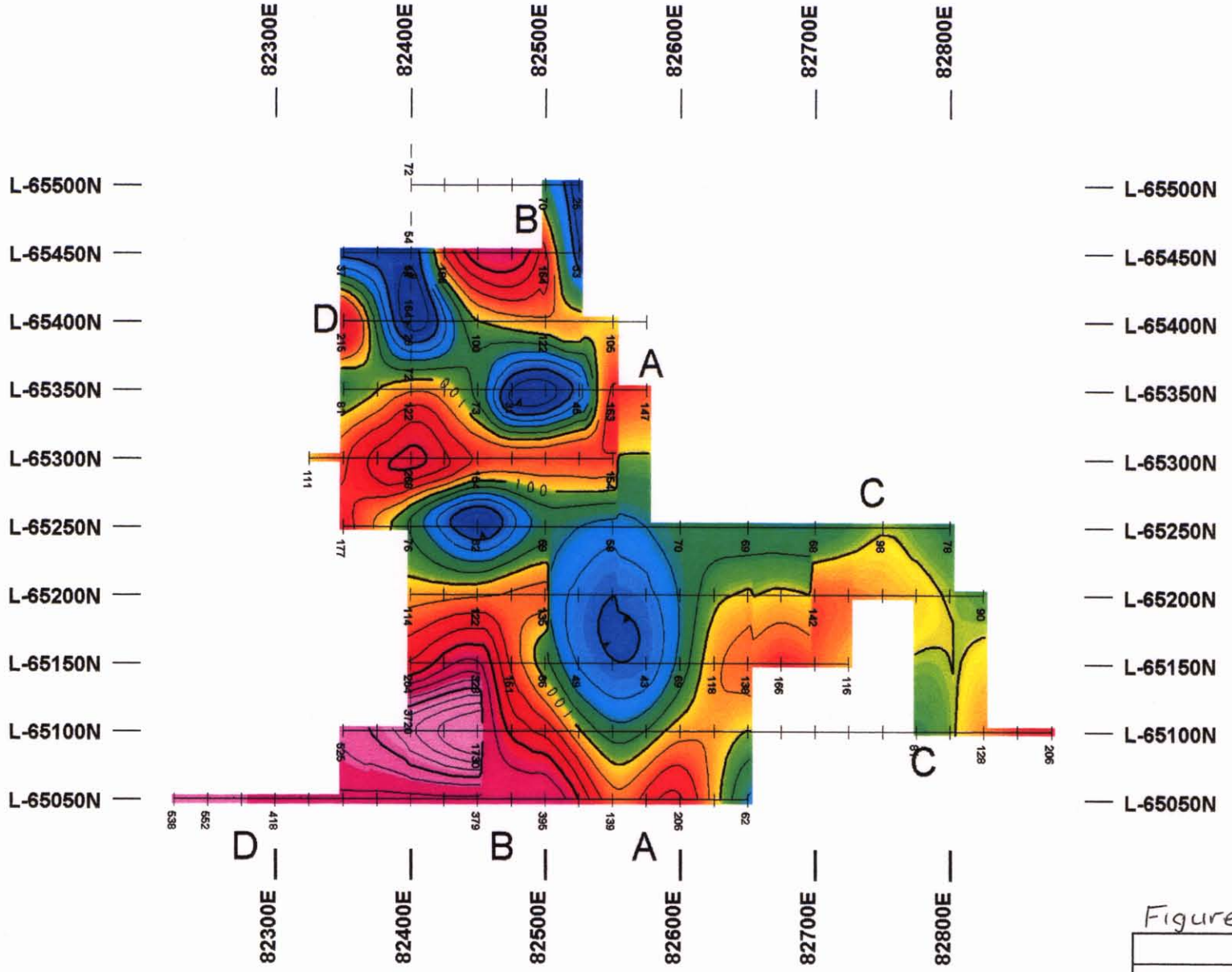
Figure GC-7.

Data Reduced by:

**GEOTRONICS CONSULTING INC**
**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>MOLYBDENUM*** | | | | |
| Drawn by: DGM | Job No. 07-14 | NTS 103P/11W | Date Dec 07 | Fig No. GC-7 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

50 0 50 100 150 200 250
(metres)

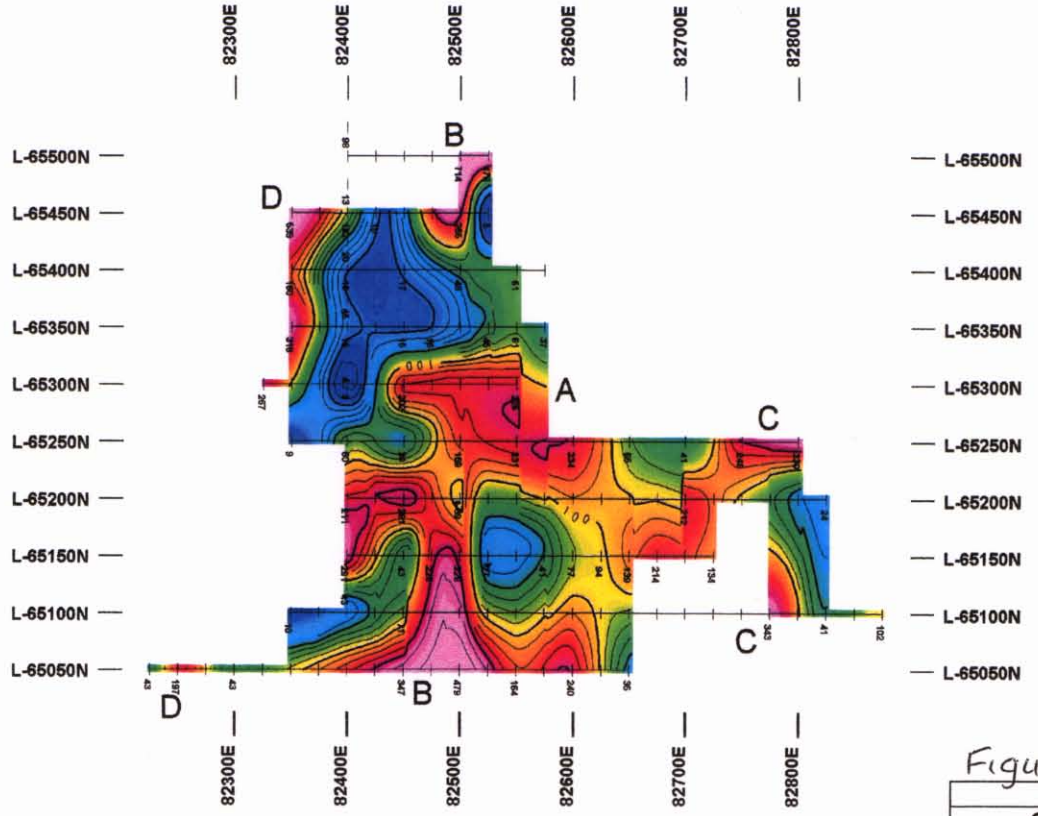
Data Reduced by:

**GEOTRONICS CONSULTING INC**
**SURREY BC.**

Figure GC-8.

| |
|---|
| GEOTRONICS CONSULTING INC |
| GOLDEN DAWN MINERALS INC. |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario |
| ***MMI SOIL GEOCHEMISTRY SURV.***<br>***PLAN MAP***<br>***NICKEL*** |

| Drawn by: | Job No. | NTS | Date |
|---|---|---|---|
| DGM | 07-14 | 103P/11W | Dec 07 |




Date Samples Picked Up:
August 2007

Soils Tested by:
SGS Laboratories
Toronto, Ontario

Grid Base:
UTM (last 5 numbers)

Contour Interval:
log base 10

Note:
Values are in
parts per billion (ppb)

Figure GC-9.

Data Reduced by:

**GEOTRONICS CONSULTING INC**

**SURREY BC.**

50 0 50 100 150 200 250
(metres)

| GEOTRONICS CONSULTING INC | | | | |
|---|---|---|---|---|
| GOLDEN DAWN MINERALS INC. | | | | |
| VMS PROPERTY<br>Lahte Creek, Stewart Area<br>Atlin Mining Division, Ontario | | | | |
| ***MMI SOIL GEOCHEMISTRY SURVEY<br>PLAN MAP<br>CERIUM*** | | | | |
| Drawn by:<br>DGM | Job No.<br>07-14 | NTS<br>103P/11W | Date<br>Dec 07 | Fig No.<br>GC-9 |

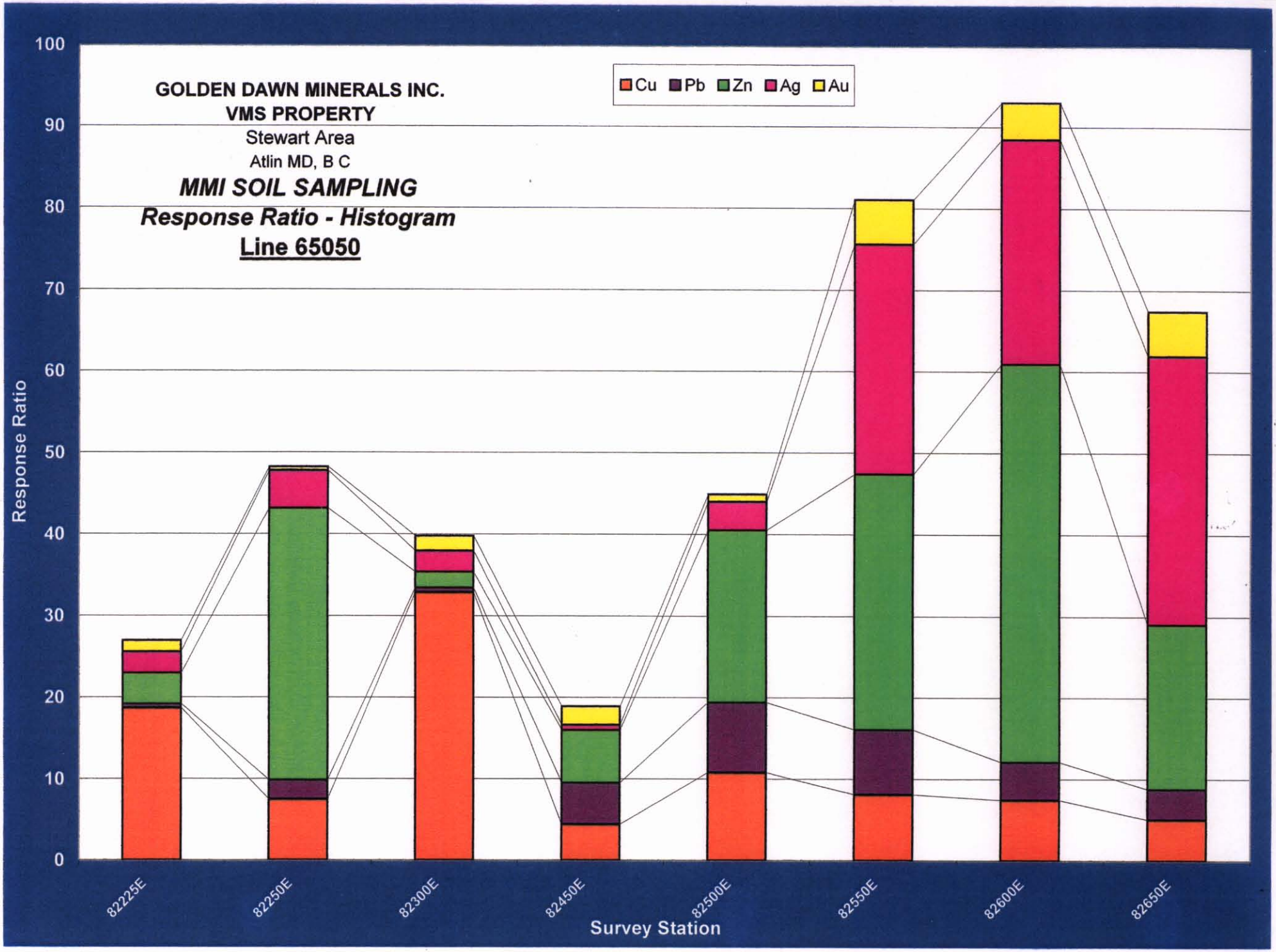



**FIGURE H-1. Line 65050N** *Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65050N(2)

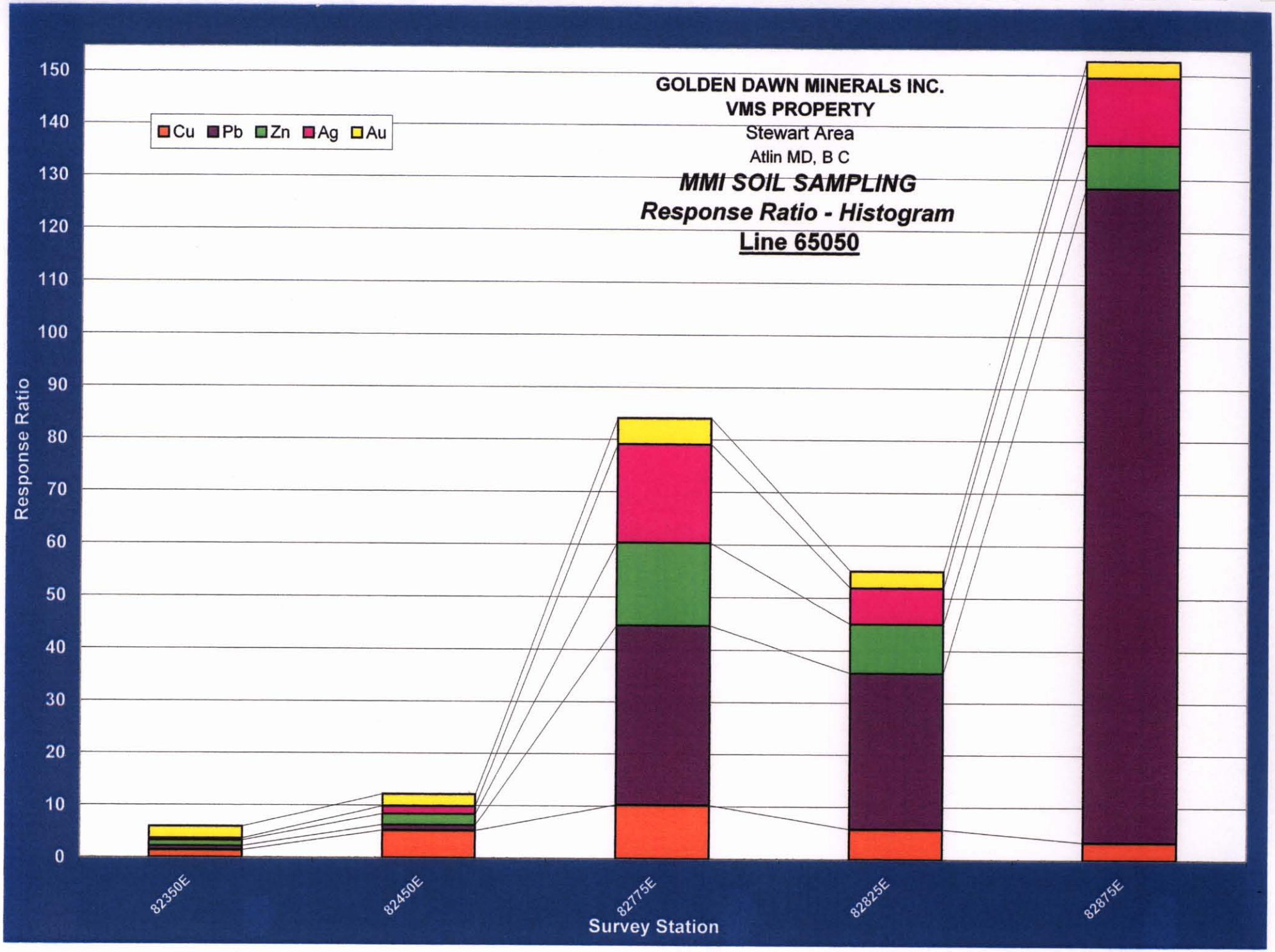



**FIGURE H-2 Line 65100N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65100N (B)

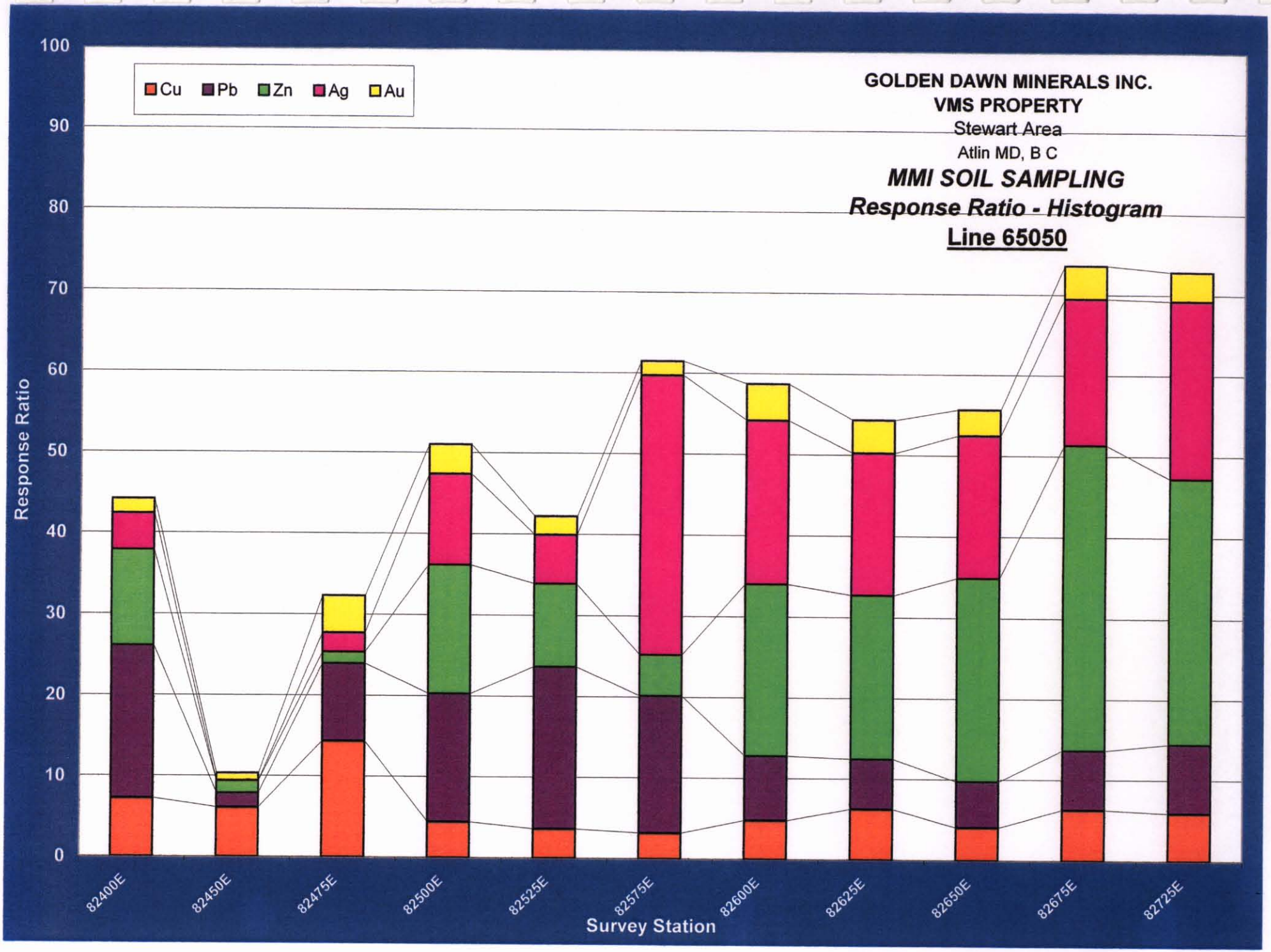



**FIGURE H-3 Line 65150N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65150N(2)

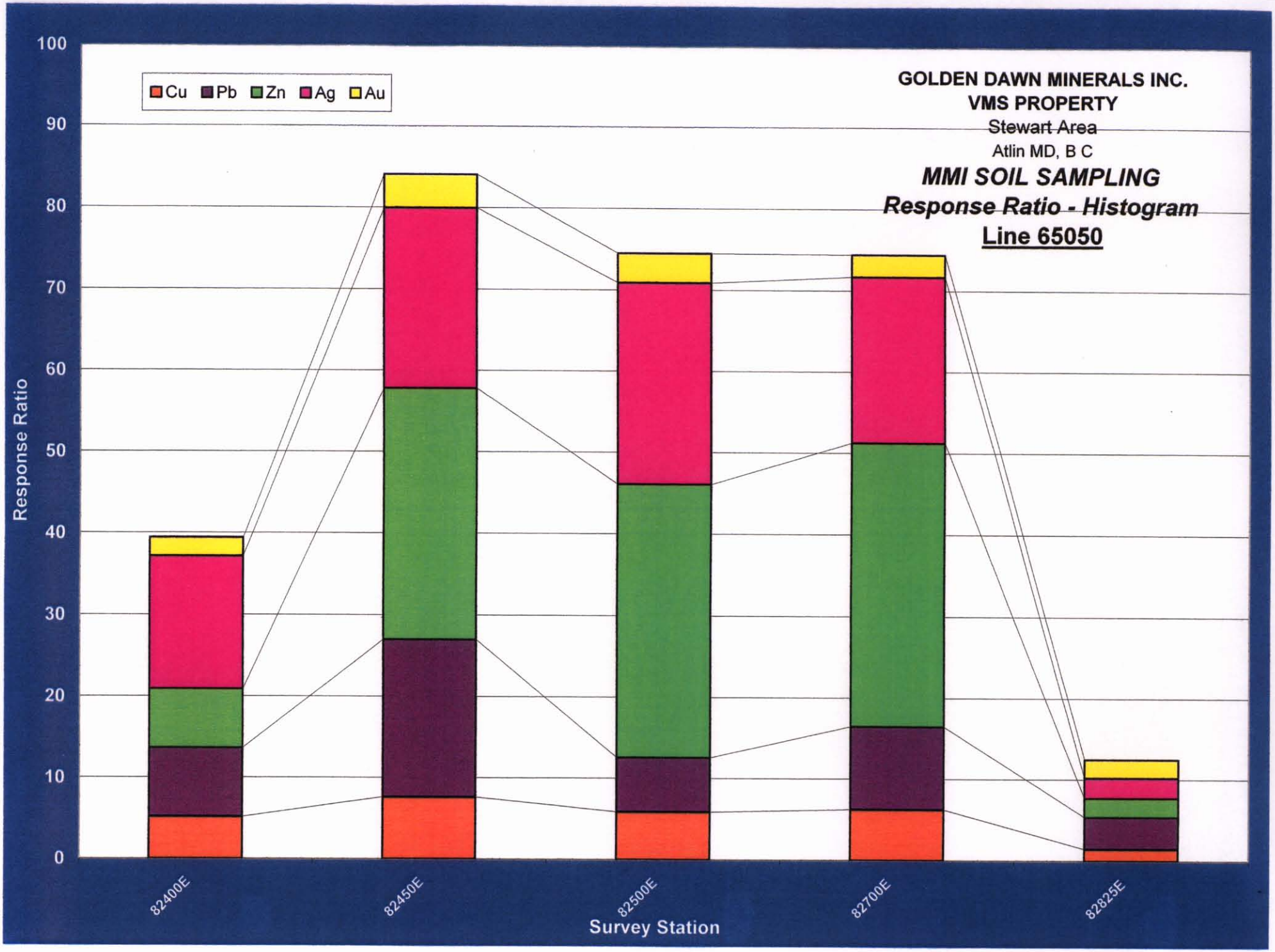



**FIGURE H-4 Line 65200N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65200N(a)

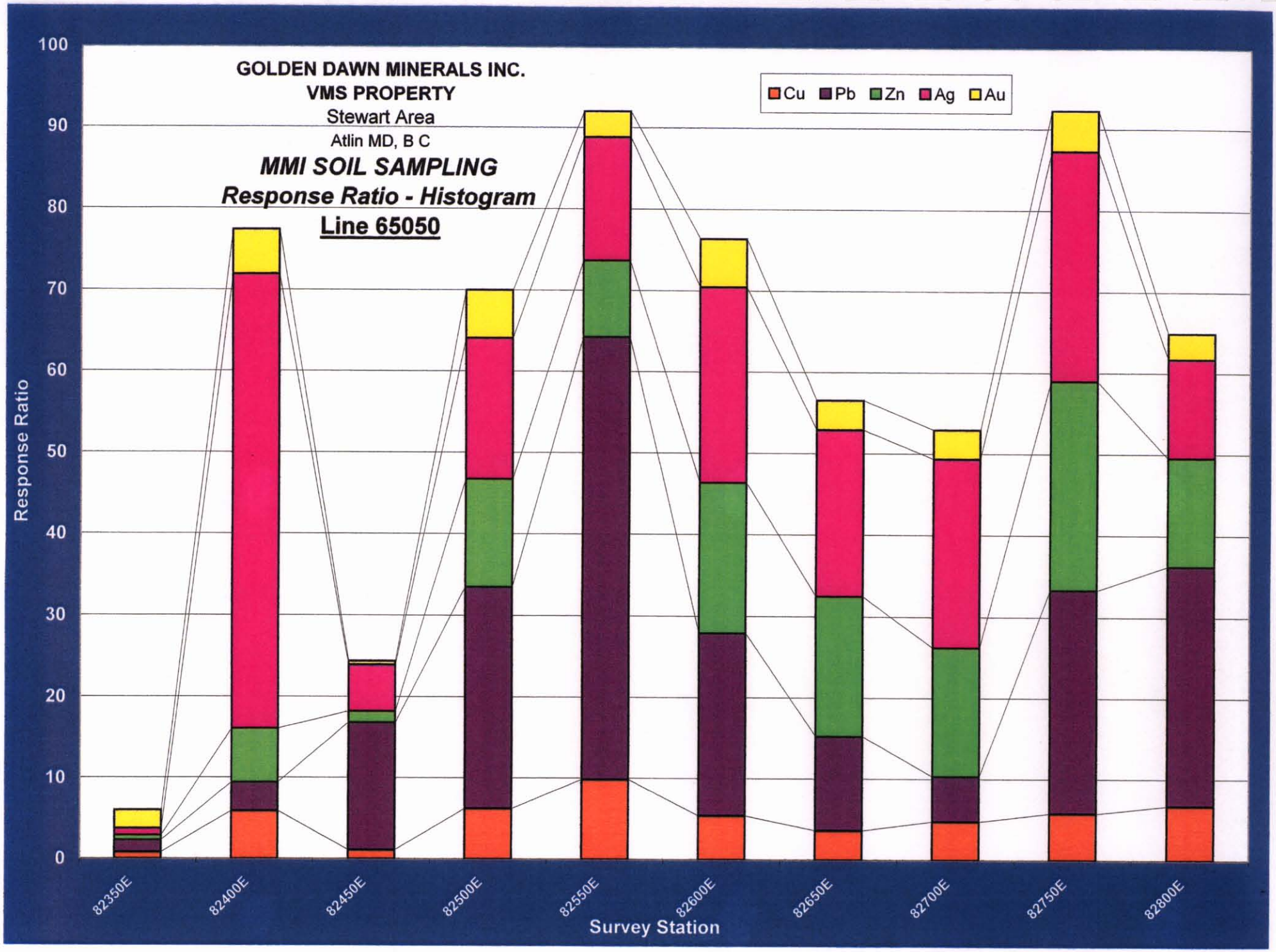



**FIGURE H-5 Line 65250N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65250N(2)

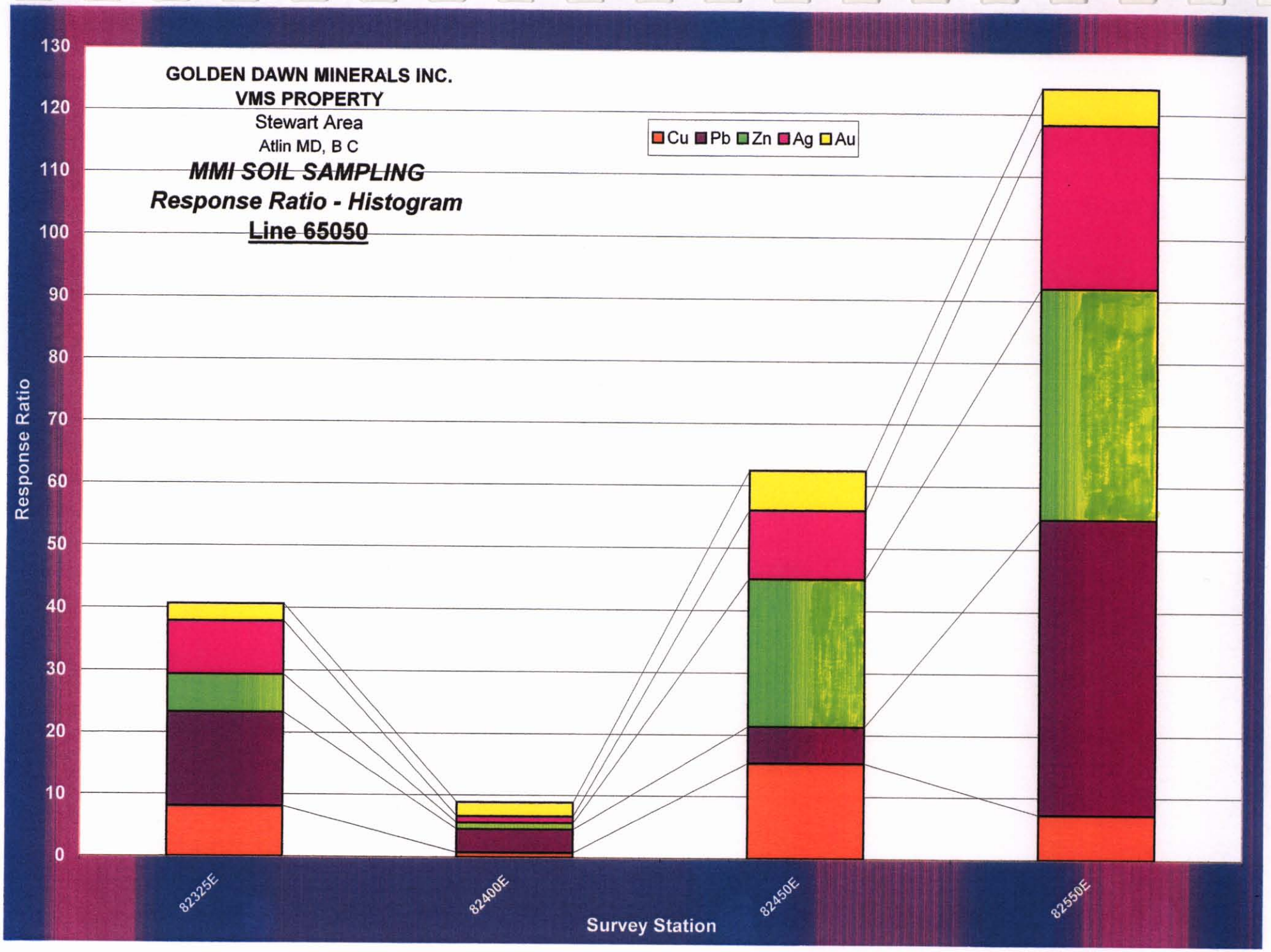



FIGURE H-6 Line 65300N

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65300N(2)

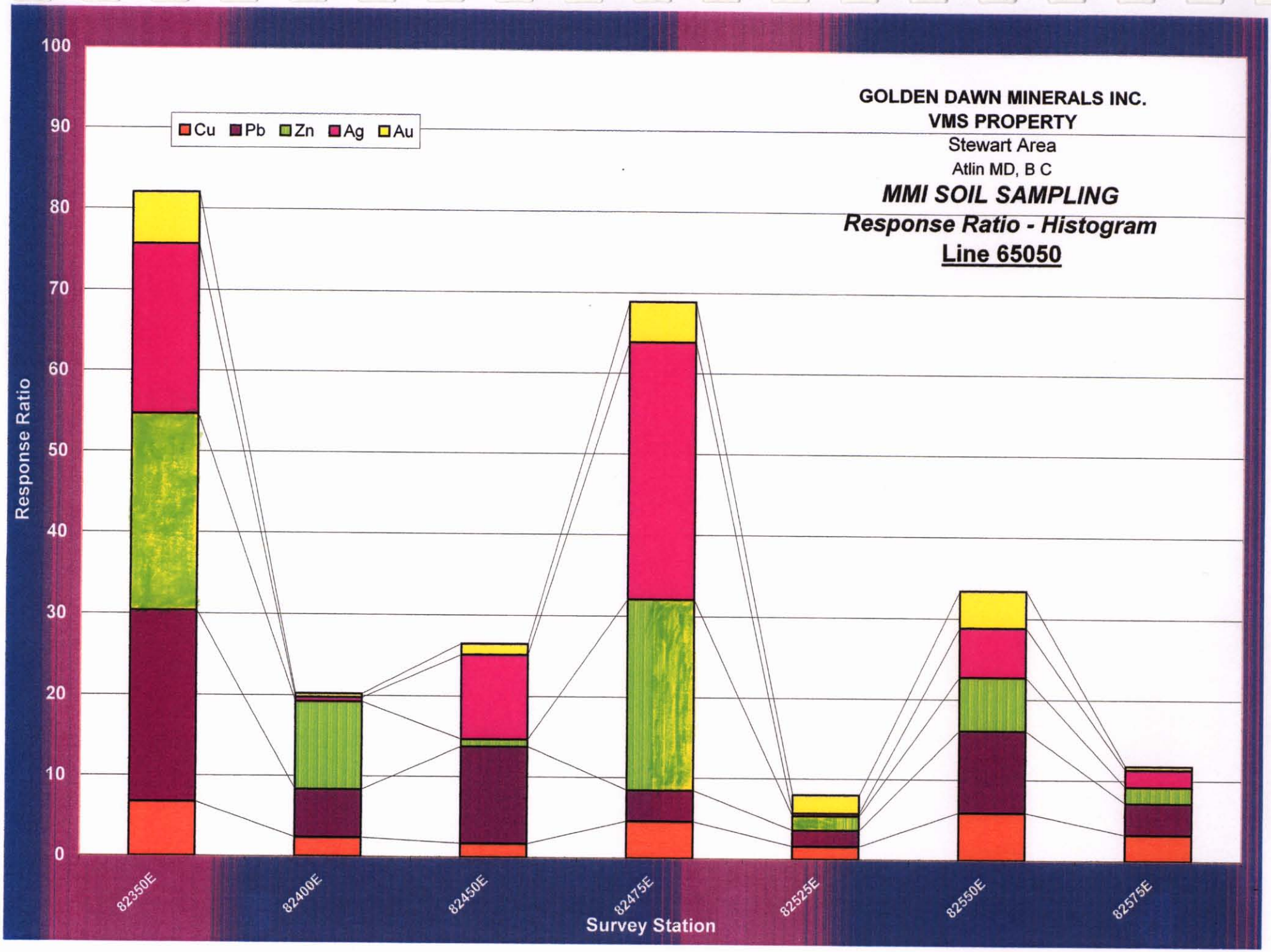



**FIGURE H-7 Line 65350N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65350(2)

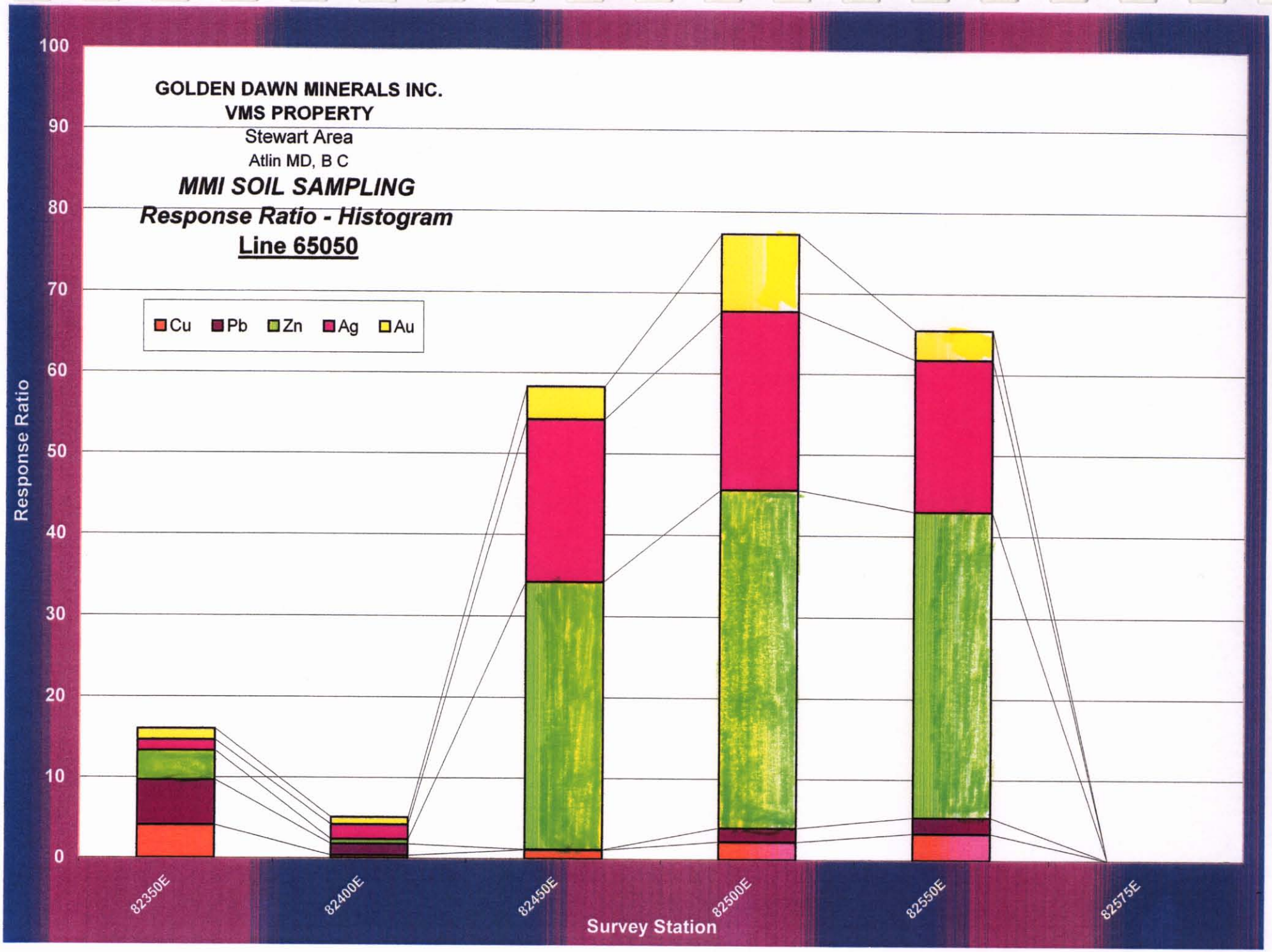



**FIGURE H-8 Line 65400N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

1 65400N(a)

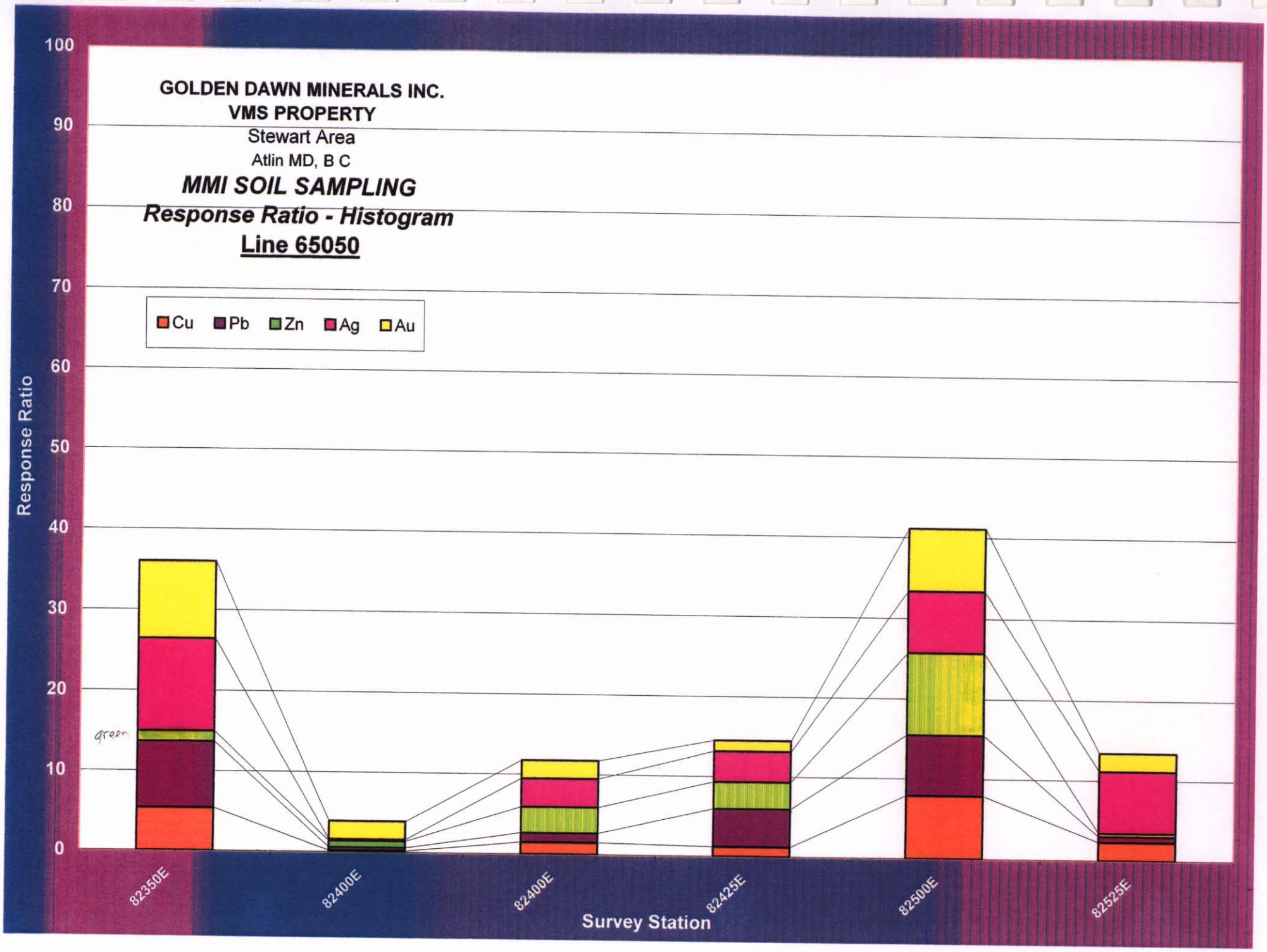



**FIGURE H-9 Line 65450N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

L6545ON(2)

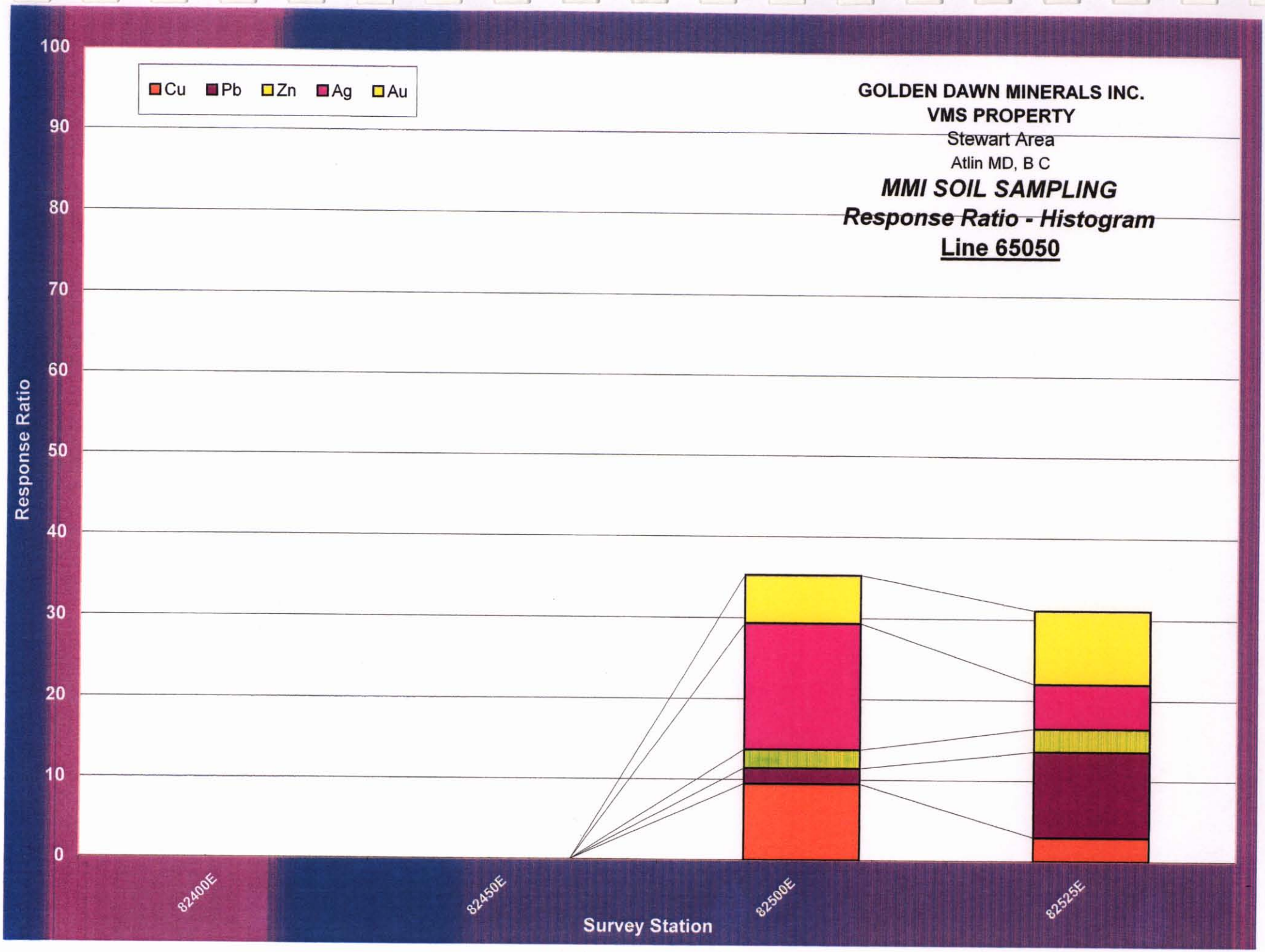



**FIGURE H-10 Line 65500N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

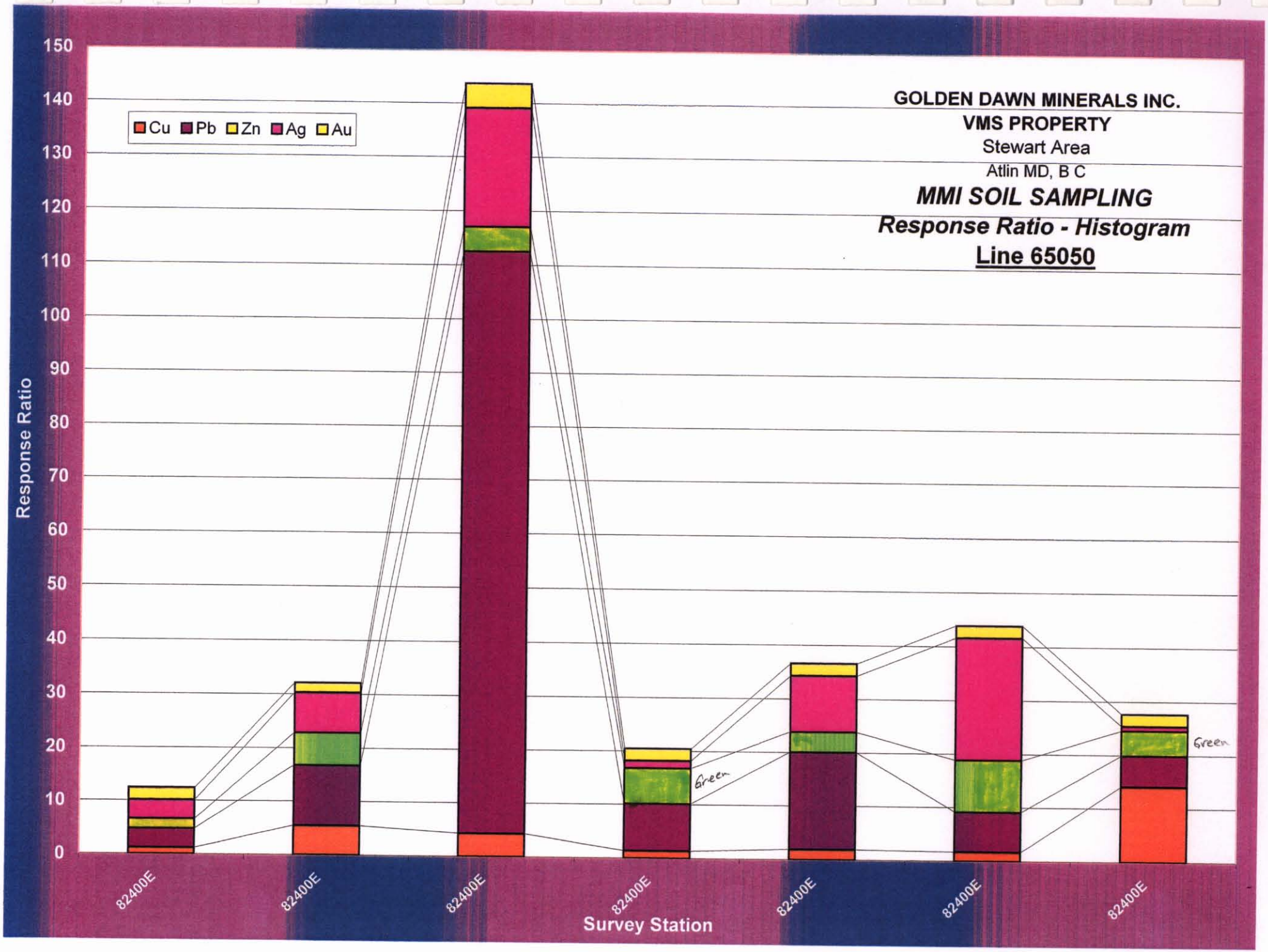



**FIGURE H-11 Line 65575N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

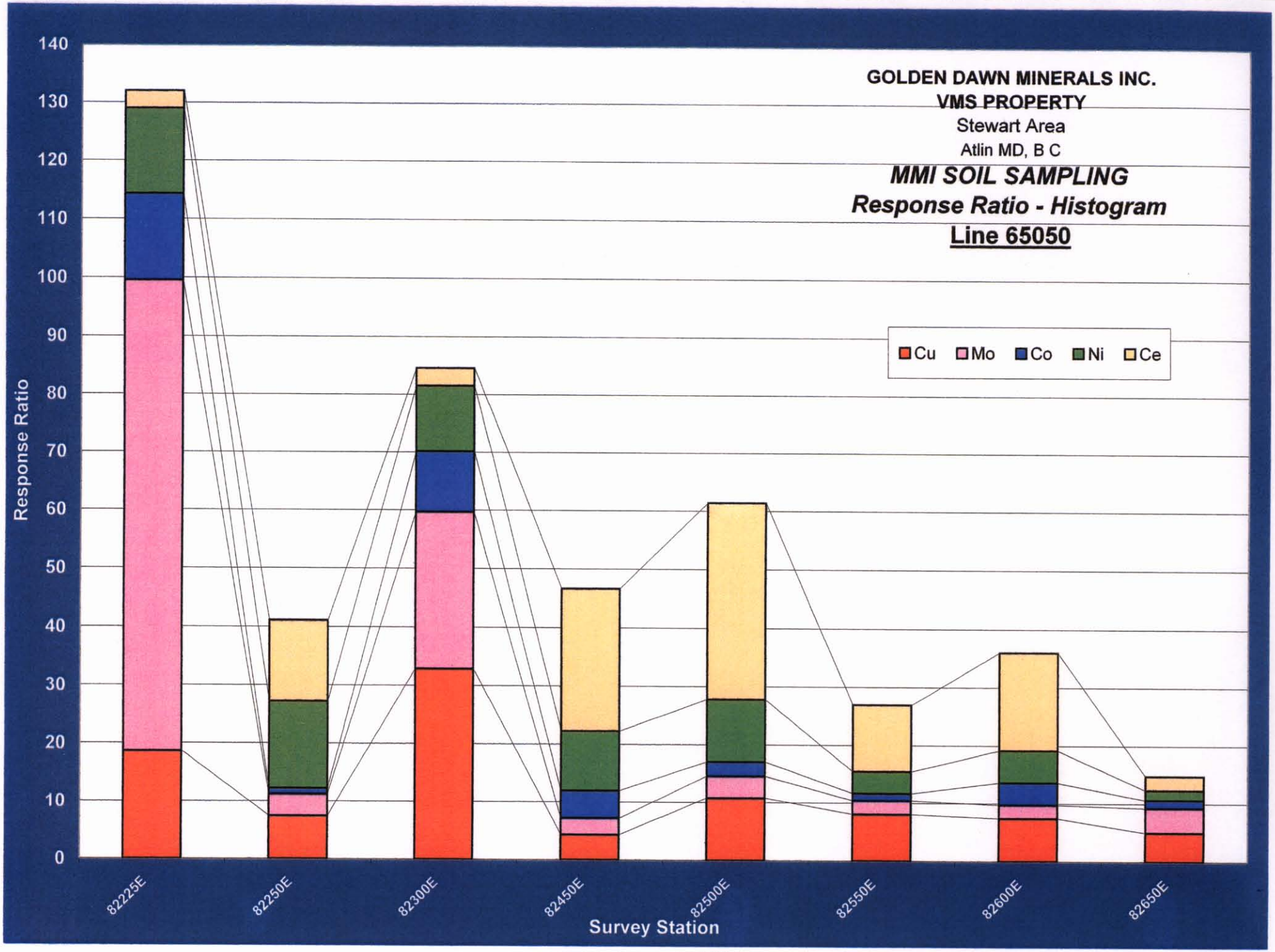



**FIGURE H-12 Line 65050N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

L 5050N (6)

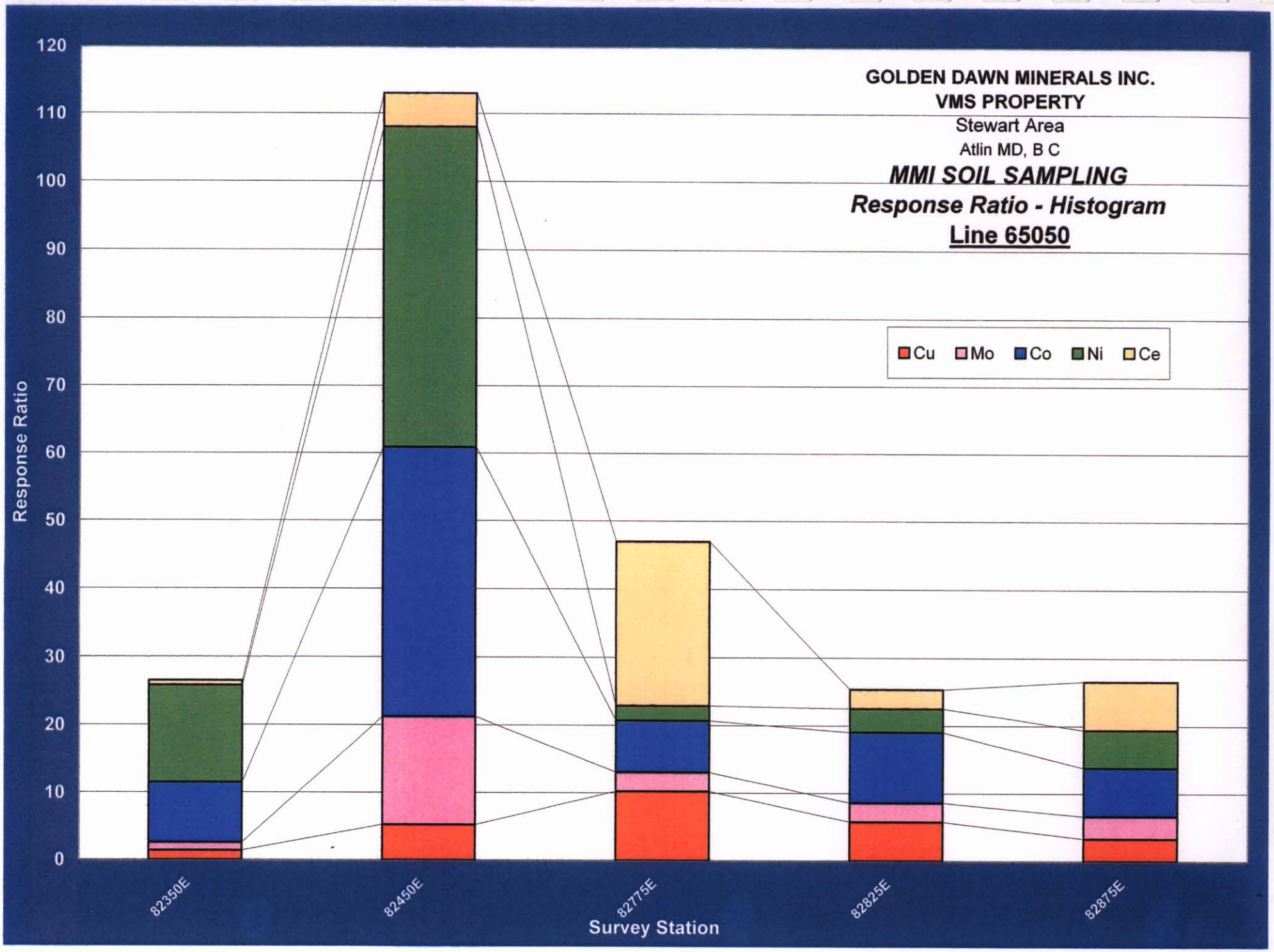



**FIGURE H-13 Line 65100N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65100N(b)

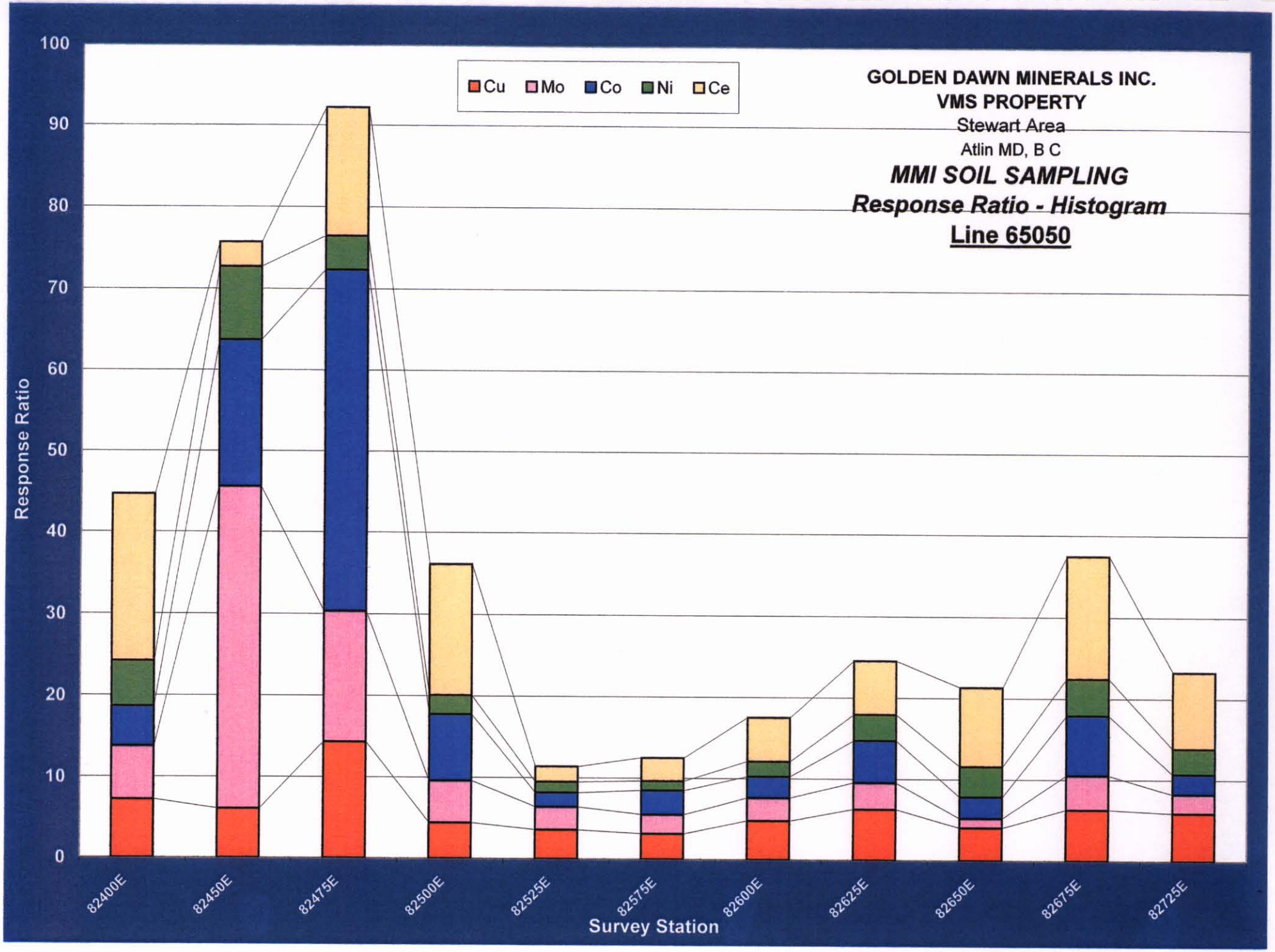



**FIGURE H-14 Line 65150N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65150N(6)

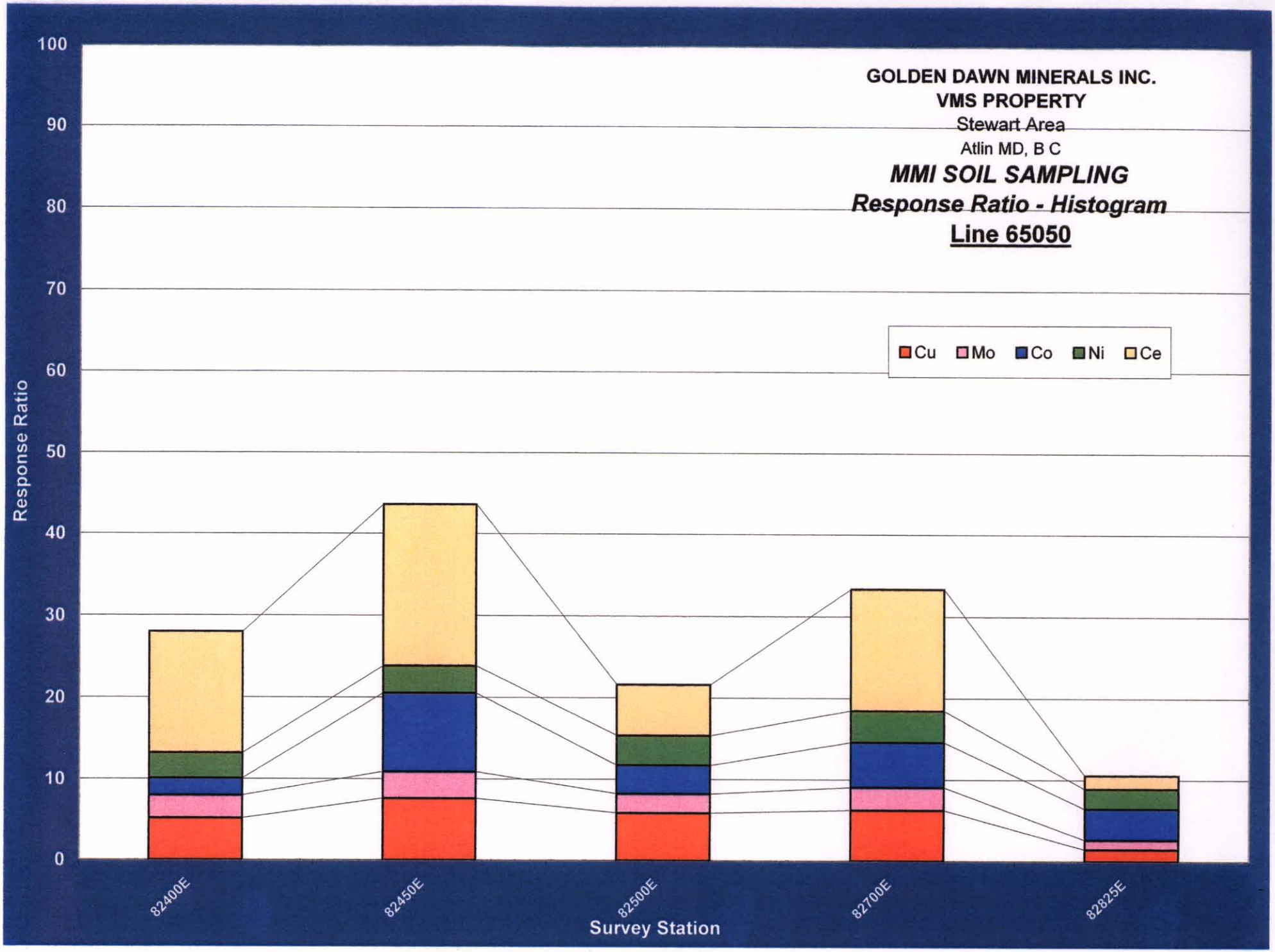



**FIGURE H-15 Line 65200N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

L65200N(b)

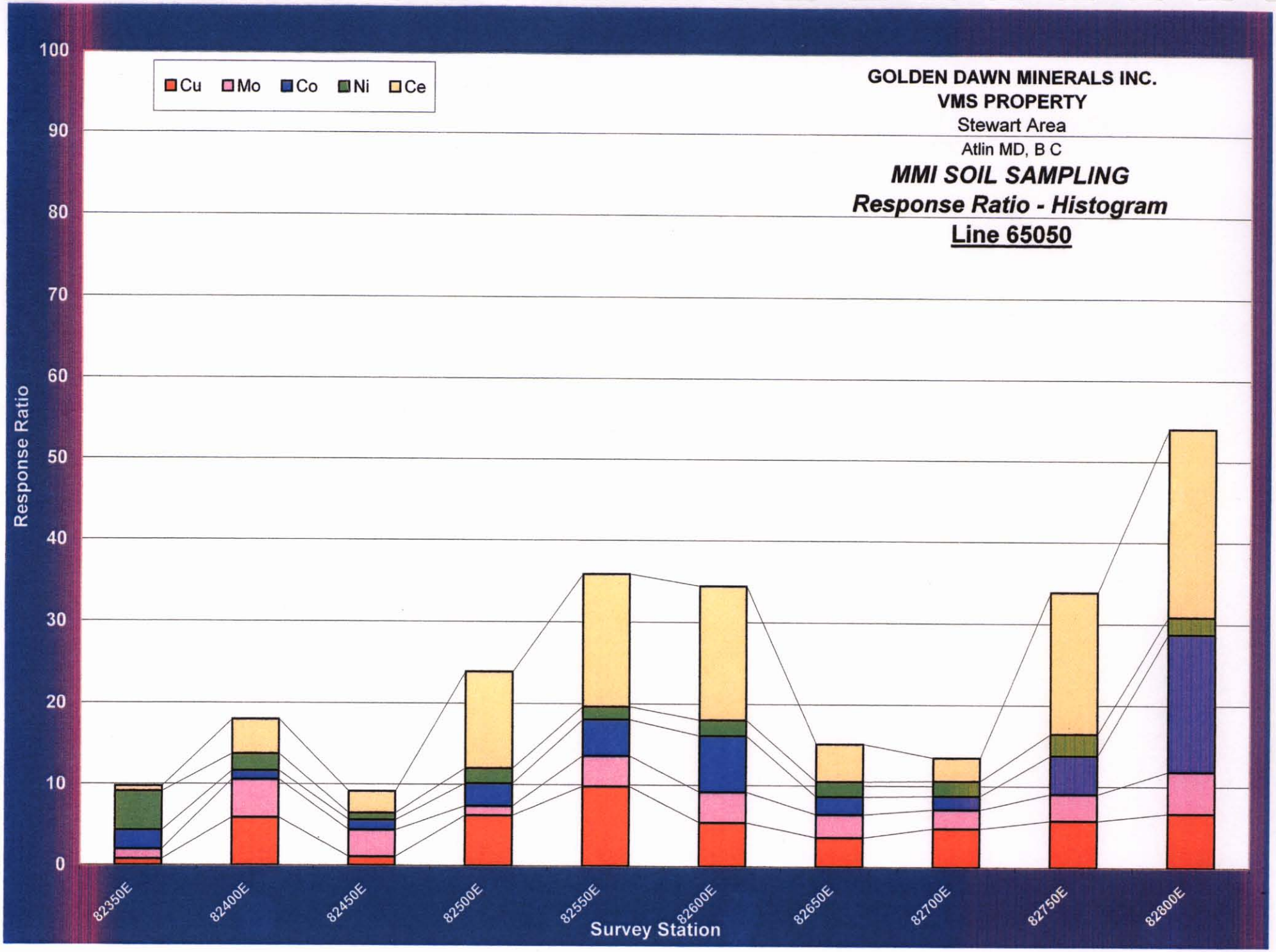



**FIGURE H-16 Line 65250N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65250N(b)

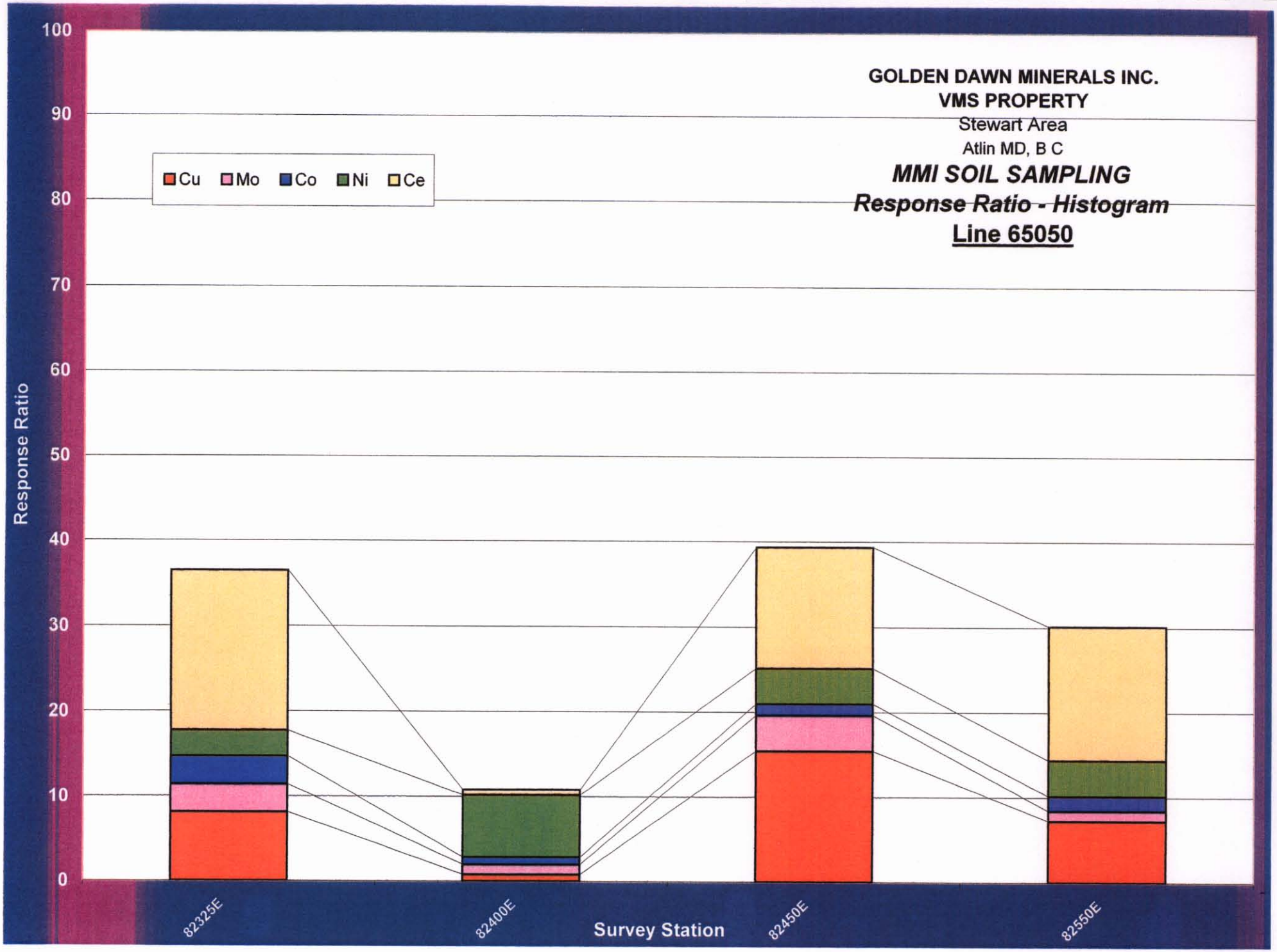



**FIGURE H-17 Line 65300N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

Line 65300N(6)

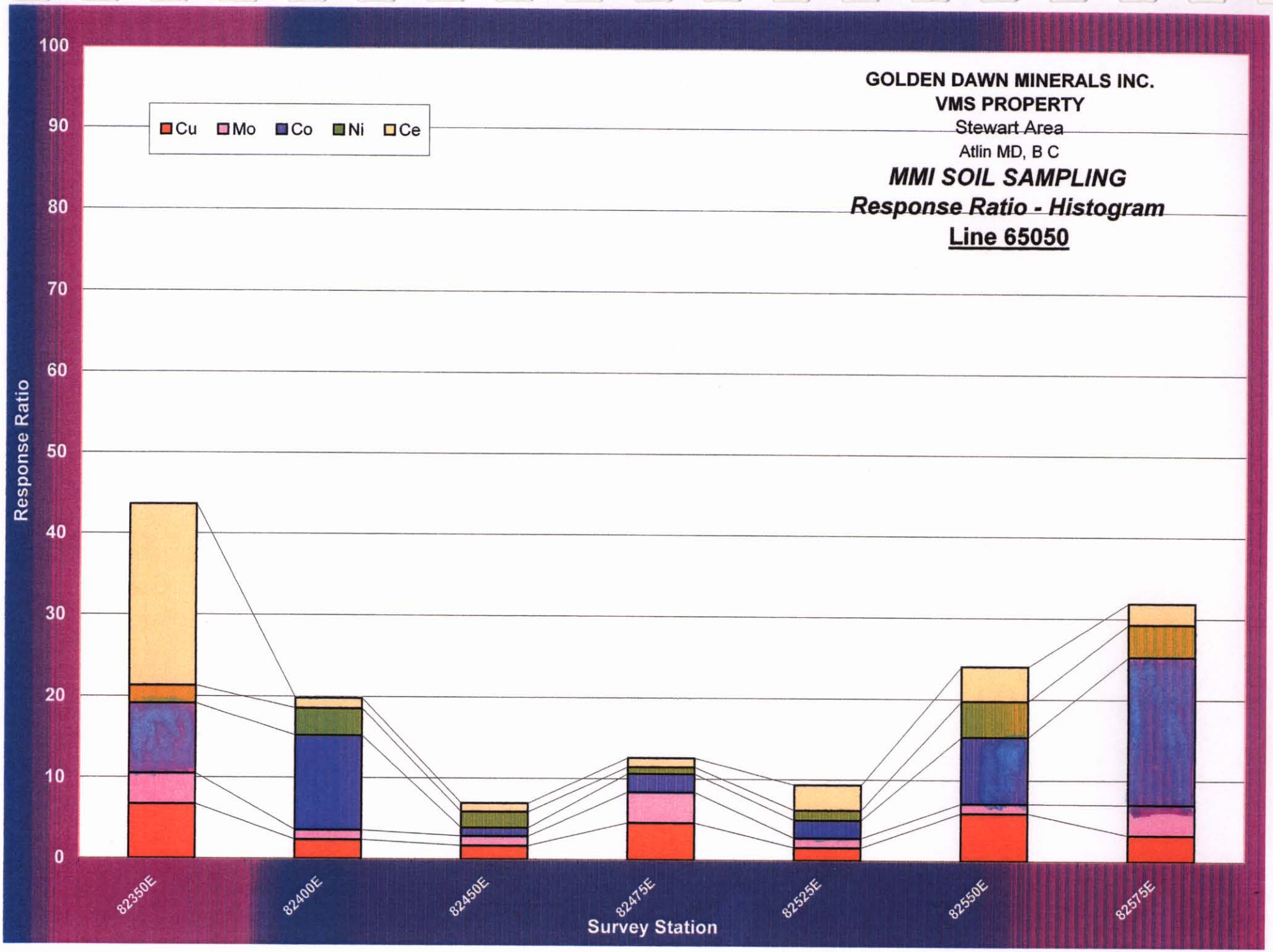



**FIGURE H-18 Line 65350N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

I 65350N (6)

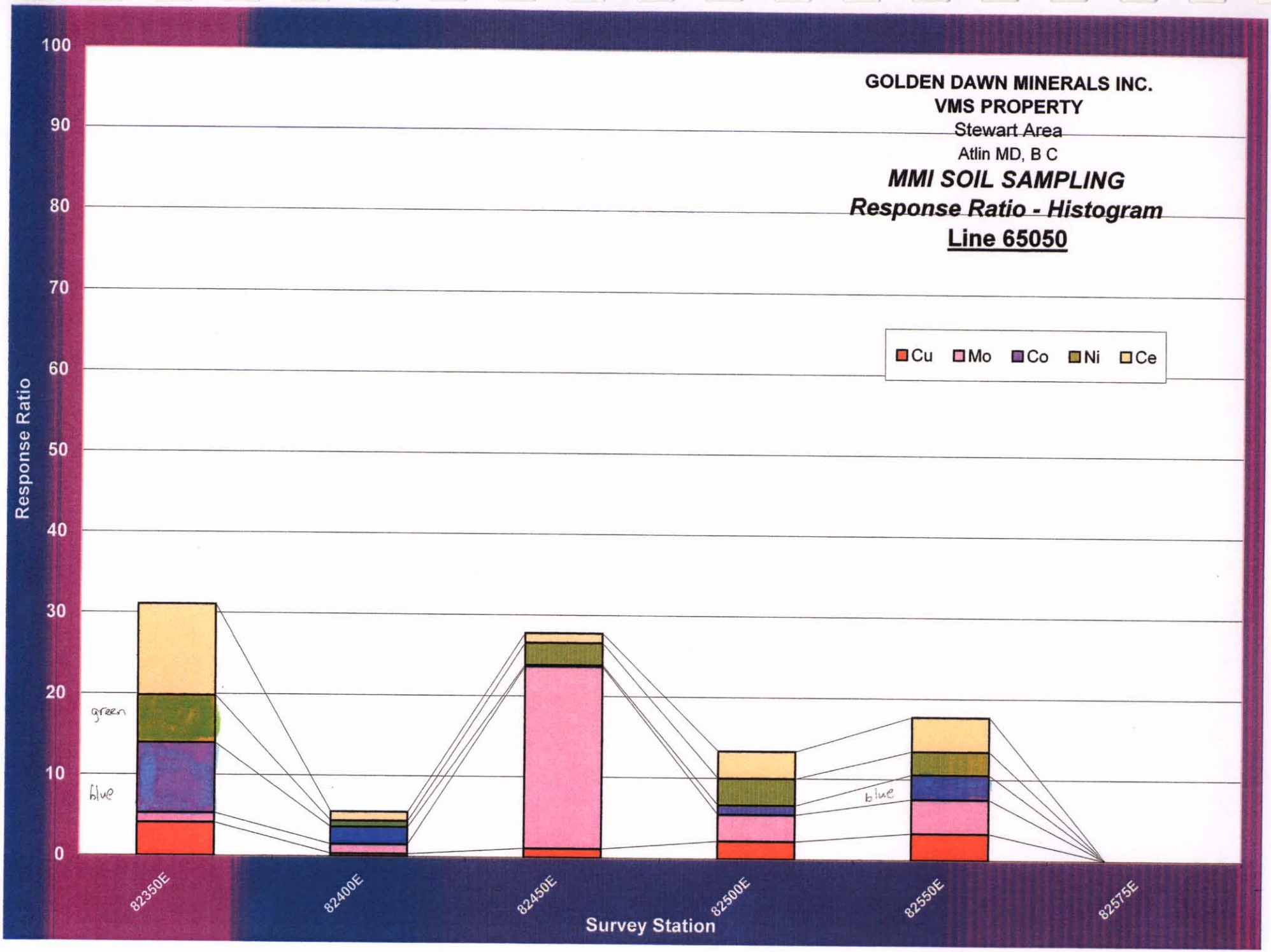



**FIGURE H-19 Line 65400N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

line 65400N (6)

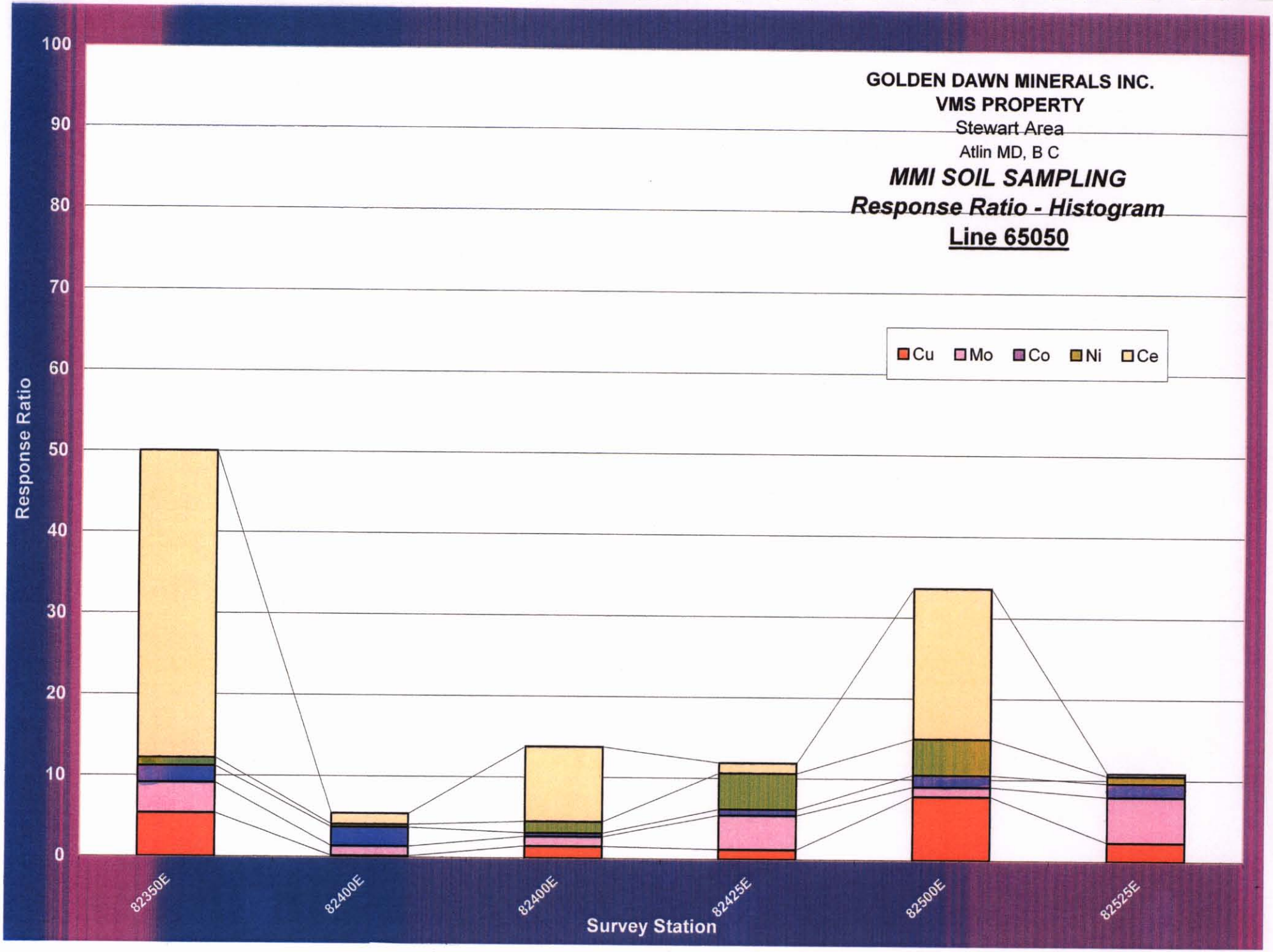



**FIGURE H-20 Line 65450N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

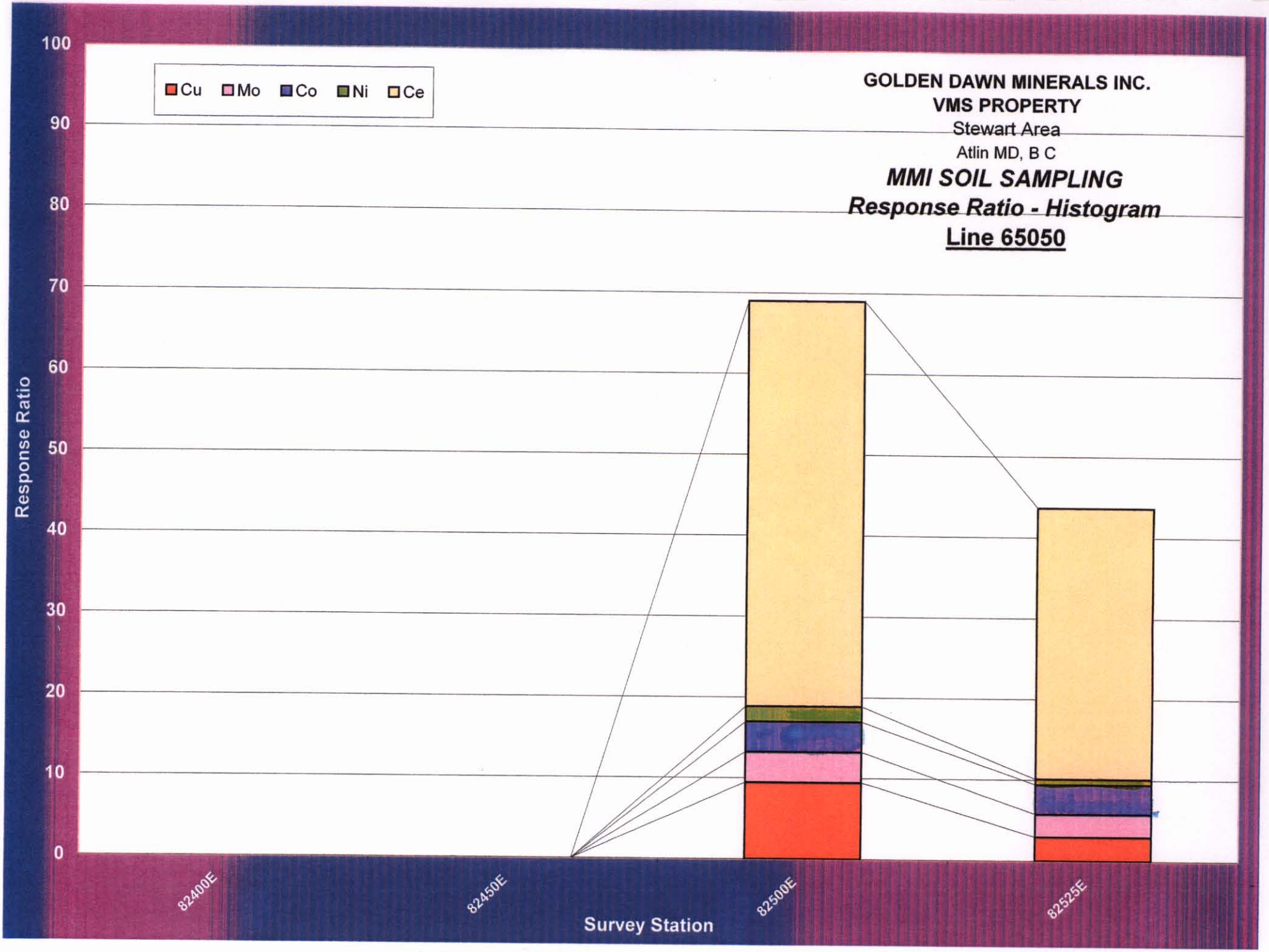



**FIGURE H-21 Line 65500N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**

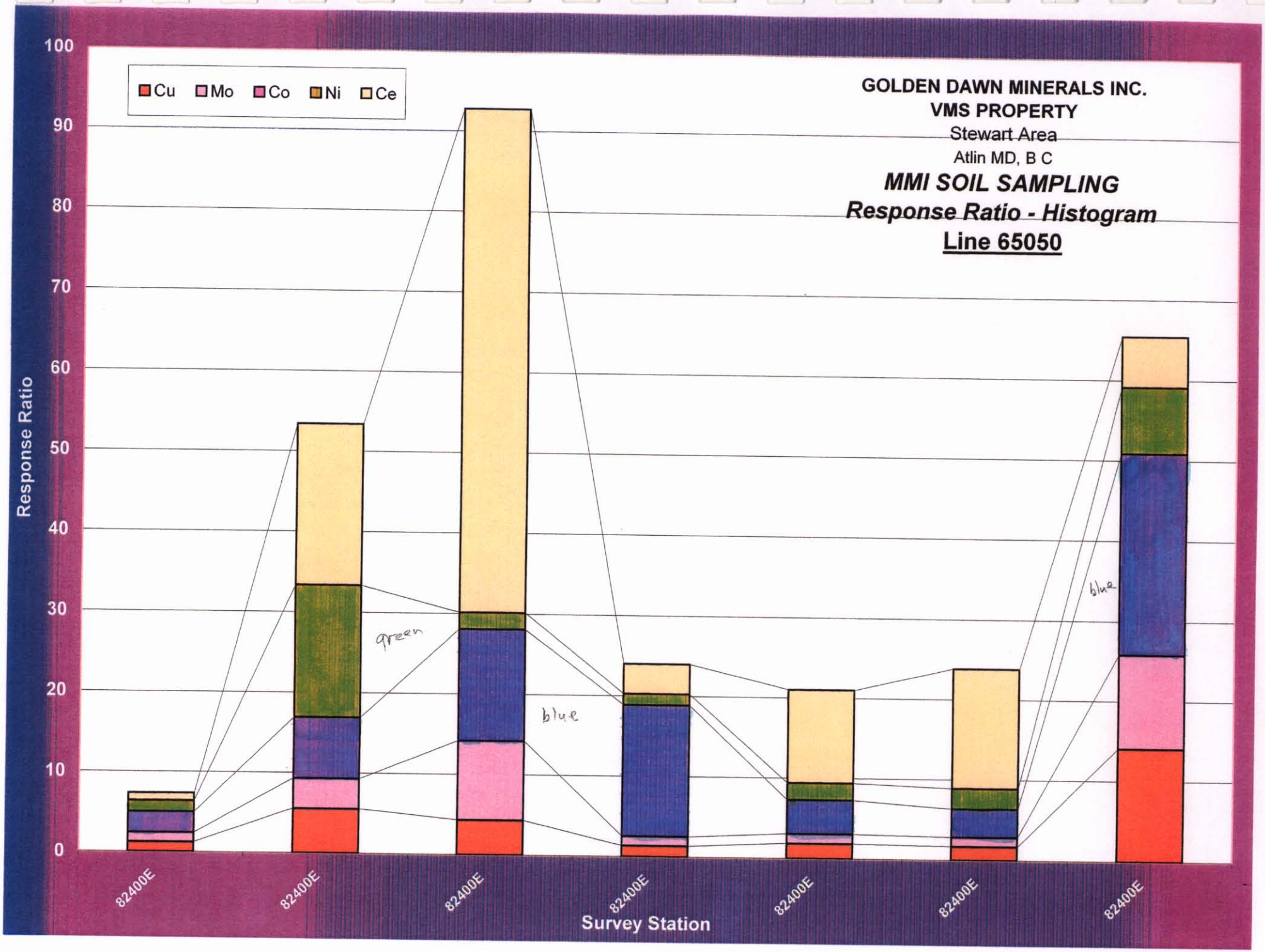



**FIGURE H- 22 Line 65550N**

*Data Reduced by*: **GEOTRONICS CONSULTING INC.**