# GEOCHEMICAL \& GEOPHYSICAL REPORT ON THE KECHIKA PROPERTY 

## H-CLAIM BLOCK

H91 to H94 Claims

Kechika River Area, British Columbia Liard Mining Division

NTS 94M/4E,5E
$59^{\circ} 15^{\prime} \mathrm{N}$ latitude, $127^{\circ} 32^{\prime} \mathrm{W}$ longitude
for
Tizard Explorations inc.
(owner \& operator)

November 21, 1997


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## SUMMARY

In 1996 an aerial magnetic survey over the northern Kechika Trough was carried out on behalf of Tizard Explorations Inc. Encouraged by the results of the survey, the company staked 1,837 claim units in eight blocks. Block $H$ contains 4 claims with 70 claim units and is located about 70 km southeast of Watson Lake. Access is via helicopter from Watson Lake. The claims lie within the Liard Plains, where outcrop is scarce. Due to the difficult access and extensive overburden, very little exploration has been carried out in this area in the past.

The Kechika Trough is the southern extension of the Selwyn Basin and as such, is highly prospective for lead-zinc-silver sedex deposits. Numerous sedex deposits have been located in the Selwyn Basin in the Yukon and several deposits are known in the Trough. These deposits are generally found in Upper Devonian to Mississippian Earn Group carbonaceous argillites, cherty argillite and slate, and in Upper Ordovician to Middle Devonian Road River Group black shales, limestone and chert.

Other types of mineralization have also been located in the area, ex. lead, zinc, copper in quartz veins (Kitza Showing) and tungsten-copper skarns (Boya Showing). The interpretation of the 1996 aerial magnetic survey also suggests that volcanic associated mineralization may be present.

Tizard Exploration's work on the H -Block consisted of 6.0 km of grid establishment, 6.0 km of soil sampling with 122 samples, and 6.0 km of magnetometerNLF-EM surveying.

Soil samples show a few scattered anomalies in elements including $\mathrm{Mo}, \mathrm{Cu}, \mathrm{Zn}, \mathrm{Pb}, \mathrm{Ag}, \mathrm{As}$, $\mathrm{Sb}, \mathrm{Hg}$. The geophysical survey outlined an anomalous low superimposed by small highs on the west side of the grid and a small high on line $3 \mathrm{~N}, 1550 \mathrm{E}$. Several VLF-EM anomalies are also indicated.

## DISCUSSION / CONCLUSIONS

The soil survey returned a few scattered anomalous samples with values in molybdenum, copper, zinc, lead, silver, arsenic, antimony, mercury in cadmium. The east half of the grid contains a larger number of the anomalous samples and with a greater degree of correlation among elements. The ground magnetic survey outlined a low superimposed by some small highs on the west and a small high on the east. Numerous conductors are indicated from the VLF-EM data, including two anomalies on either edge of the western magnetic high. There does not appear to be any direct association between the geophysical and geochemical anomalies. The anomalies may reflect mineralization related to the Boya West Hill skarn/porphyry showing, located just 600 m southeast of the grid. No further work is recommended on these claims at this time.

## INTRODUCTION

During the period of July 6 - August 8th, 1997, a program of soil and lake sediment geochemistry, ground geophysics and minor prospecting was carried out on the Kechika Property in north central British Columbia. The property comprises 9 claim blocks, of which the H - claim block is discussed in this report. The work was conducted by Donegal Developments Ltd. on behalf of Tizard Explorations Inc.

The focus of the exploration program was to investigate anomalies delineated from an earlier reconnaissance airborne geophysical survey. The property is located within the Kechika Trough, a region which is prospective for sediment hosted zinc-lead-silver deposits.

## Location and Access

The Kechika H-Block is located adjacent to the east side of the Kechika River, 10 km north of the confluence of the Turnagain River and 110 km southeast of the town of Watson Lake, Yukon [Figure 1]. The centre of the property lies at $59^{\circ} 15^{\prime} \mathrm{N}$. latitude, $127^{\circ} 32^{\prime} \mathrm{W}$. Iongitude on NTS mapsheets $94 \mathrm{M} / 4 \mathrm{E}, 5 \mathrm{E}$ within the Liard Mining Division.

Access to the claims is available by helicopter out of Watson Lake. A series of trails provides good access within the claims. A fly camp was set up on the west side of Aeroplane Lake, 21 km to the northwest, during the course of the work on these claims.

## Physiography and Climate

The claims are situated on the edge of the Liard Lowlands physiographic division (Liard Plains) and the adjacent Rabbit Plateau. The Liard Plains is characterized as a low lying, drift-covered region with subdued topography. The claims cover the west slope of a hill, informally referred to as Boya Hill, with elevations ranging from about $650 \mathrm{~m}(2,133 \mathrm{ft}$ ) on the western edge of the claim block to $1,040 \mathrm{~m}(3,412 \mathrm{ft}$.) above sea level on the east near the peak of the hill. Glacial features on the claims indicate that ice movement was in a northeast direction.


The climate is typical of northern continental regions, with temperatures ranging from about $-25^{\circ} \mathrm{C}$ in January to $15^{\circ} \mathrm{C}$ in July. Much of the precipitation falls as snow, with annual snowfall averaging 219 cm . Field work can be carried out from about May to October.

## Claim Status

The H-Claim Block consists of 4 individual claims totaling 70 claim units, covering an area of about 1,750 hectares ( 4,324 acres). The owner on record of these claims is Tizard Explorations Inc. The claims are listed in Table 1 below and illustrated in Figure 2.

Table 1: H-Claim List

| Claim <br> Name | Tenure <br> Number | Record <br> Date | Units | Expiry <br> Date | Claim <br> Owner |
| :---: | :---: | :---: | :---: | :---: | :---: |
| H 91 | 350091 | 96 Aug 23 | 15 | 98 Aug 23 | Tizard Explorations Inc. |
| H 92 | 350092 | 96 Aug 23 | 20 | 98 Aug 23 | Tizard Explorations Inc. |
| H 93 | 350093 | 96 Aug 23 | 15 | 98 Aug 23 | Tizard Explorations Inc. |
| H 94 | 350094 | 96 Aug 23 | 20 | 98 Aug 23 | Tizard Explorations Inc. |
| Total: 70 |  |  |  |  |  |

## Property History

The H-Block claim area, previously staked as the Boya claims, was extensively explored by Texasgulf Inc. between 1977-81 on behalf of its wholly owned subsidiary, Texas Gulf Canada Ltd. A brief chronological history of this property is as follows:

1977: The Boya claims are located with 4 MGS claims totaling 60 units. The claims are acquired as a raw tungsten prospect, with further work contemplated.
1978a: A brief geological evaluation of the claims is conducted. Geochemical surveying consisting of 110 soil samples is completed on contour and down-slope traverses. A topographic map at a scale of $1: 5,000$ is prepared by McElhanney Surveying and Engineering Ltd. Additional staking is completed, with the property now comprising 8 MGS claims and one fractional claim totaling 94 units.

1978b: Geological mapping is performed at 1:5,000 scale over the entire property and at $1: 2,500$ in a specific area of interest. A total of 335 soil samples were collected and analyzed for $\mathrm{Cu}, \mathrm{Zn}, \mathrm{Mo}$ and W with 102 of the samples subsequently analyzed for Bi . A ground magnetic survey is completed totaling 930 readings on 19.9 km of line. Late in the field season, a limited program of line-cutting is completed with 2.5 km of line.

1979: Soil sampling (61 samples) is performed to substantiate a weak geochemical anomaly detected in an earlier survey. Geophysical surveys consisting of magnetics and widespaced I.P. is conducted over the entire property with more detailed investigations of the North Magnetic Anomaly. Three short lines of aerial photography are flown over the property and surrounding ground with a total of 33 photos at a scale of 1:24,000. Diamond drilling in 8 holes totaling $1,419 \mathrm{~m}$ is completed to test surface showings and geophysical anomalies.

1980: Further diamond drilling with 8 holes totaling 2,227 m is completed on the Boya 1 \& 7 claims. The core is analyzed for $\mathrm{Mo}, \mathrm{W}$, and Cu . Grades are generally very low.
1981: Two diamond drill holes are completed ( $1,374 \mathrm{~m}$ ) on the Boya 1 and 2 claims to test a large volume of altered, skarned rock lying between two previously drilled areas.
1996: An airborne magnetic survey, covering a 100 km by 20 km area is flown over the northern Kechika Trough area by Questor Surveys for Donegal Developments Ltd. Eight claim blocks, including the H-Block are staked for Tizard Explorations Inc. during the summer to cover the most favourable anomalies.

## Summary of Work

Work performed on the Kechika H-Block in 1997 consists of grid establishment, soil sampling and ground geophysics on the H 93 and H94 claims. A total of 6.0 line km of flagged gridlines, 6.0 line km of soil sampling ( 122 samples), and 6.0 line km of magnetometerNLF-EM surveying was completed.


## REGIONAL GEOLOGY

The area of interest lies within the Kechika Trough, a sedimentary basin developed off the western shelf of Ancestral North America during early Paleozoic time [Figure 3]. The trough is bound to the west by the Northern Rocky Mountain Trench and is considered to be the southern extension of the larger Selwyn Basin in the Yukon. Recent mapping of the Northern Kechika Trough by the B.C. Geological Survey has identified strata of predominantly Proterozoic to Mississippian age with lesser Permian to Quaternary units [Figure 4].

Stratigraphic units are summarized below from Ferri et. al. (1997):

## Upper Proterozoic Hyland Group

Grey to brown weathering sandstone and slate with distinctive sequences of fine to coarse, gritty feldspathic quartz-rich sandstones and conglomerates.

## (Upper Proterozoic and/or Lower Paleozoic?) "Aeroplane Lake Panel"

Low grade metamorphic rocks in the Aeroplane Lake area, subdivided into 3 packages: a calcareous phyllite and schist, siliceous schist and quartz sandstone, and a limestone, phyllite, sandstone.

## Upper Proterozoic and Cambrian

Undivided Hyland Group and Cambrian rocks.

## Cambrian Siliciclastics

Slate, siltstone, quartz sandstone to quartzite, conglomerate and minor limestone are grouped into an unnamed sequence of probable Cambrian age.

## U. Camb. - L. Ord. Kechika Group

Slate, calcareous slate, limestone, siltstone, and sandstone. This unit is extensive in the map area but poorly exposed and displays variations in thickness and lithology. In the Kechika River area, the unit is more siliceous and dolomitic.

## U. Ord. - Mid. Devonian Road River Group

Divided into 2 informal subunits (although not recognizable in this map area). A lower sequence known as the Duo Lake Formation is composed of black shale, siliceous shale, chert and minor limestone. The overlying "Silurian Siltstone" is distinguished by distinctive bufforange weathering, bioturbated dolomitic siltstone. Road River exposures are dominated by the Silurian Siltstone unit due to its relatively resistant nature.


## Ordovician - Miss. "Kitza Creek Facies".

An informal unit in the Kitza Creek area consisting of calcareous dark grey to black, carbonaceous siltstone to silty argillite, shaly slate. May be older, younger than or equal to the Road River Group.

## Upper Devonian to Mississippian Earn Group

Thin to thickly bedded, carbonaceous blue-grey to dark grey or black argillite, cherty argillite, siltstone and slate. These rocks have a characteristic yellowish stain on weathered surfaces. Upper Devonian rocks of the Earn Group host many of the Cordillera's most important sedex deposits.

## Miss. - Permian Mount Christie Formation (?)

Grey to buff-weathering, pale to dark grey chert. Locally pale salmon pink or green. Thinly to thickly bedded. Minor argillite. Locally found stratigraphically above Earn Group.

## Tertiary - Quaternary Tuya Formation

Fresh, massive to fragmental basalt. Dark grey-brown to dark green, plagioclase-olivine-phyric. Locally vesicular or glassy. Minor basaltic tuff, with angular basalt fragments.


## Structure

The regional structural style in the Kechika Trough is dominated by northwest trending folds and thrusts. Folding is open to moderate and upright to northeast verging. The dominant cleavage is generally parallel or subparallel to bedding. A major thrust is located on the east side of Chee Mountain, where Cambrian quartzites and slates overlie Earn Group rocks. West of Chee Mountain, the Hyland Group is separated from the Cambrian rocks by another northeast-verging thrust fault. Another significant thrust carrying Proterozoic rock passes through Aeroplane Lake in the Rocky Mountain Trench. The Northern Rocky Mountain Trench on the western boundary of the trough is a broad, well defined valley along with right-lateral fault displacement in the range of $450-700 \mathrm{~km}$. Several steep, northeast trending dip-slip or oblique slip faults are also present in the map area.

## Intrusive Rocks

In the northern Kechika Trough map area, intrusive rocks consist of mainly gabbro and smaller stocks or dikes. Several elongate gabbro bodies are found in Kechika Group rocks northeast of Gemini Lakes of possible early Paleozoic age. At Boya Hill, 10 km southeast of Graveyard Lake, skarn mineralization is related to quartz-biotite-feldspar porphyry and quartz porphyry dikes, sills and small stocks of early Cretaceous age. Several feldspar and quartz-feldspar porphyry dikes also occur within the Aeroplane Lake panel. At Mount Monckton, strongly hornfelsed rocks indicate the proximity of a large intrusive body.

## REGIONAL METALLOGENY

The most economically important mineral deposits in the Kechika Trough, and the primary exploration target of this program are zinc-lead-silver sedimentary exhalative (sedex) deposits. These deposits are characterized by thin laminations to massive beds of pyrite, pyrrhotite, sphalerite and galena within host rocks of shale, chert, and carbonates. Barite is also a major component of many sedex deposits.

Some of the world's largest sedex deposits are found within the Selwyn and Purcell basins of the Canadian Cordillera, including Howard's Pass in the Yukon ( 125 million tonnes of $5.4 \% \mathrm{Zn}$ and $2.1 \% \mathrm{~Pb}$ ) and the Sullivan deposit in southeastern B.C. ( 155 million tonnes of $5.7 \% \mathrm{Zn}$, $6.6 \% \mathrm{~Pb}, 68 \mathrm{~g} / \mathrm{Ag}$ ). The Selwyn Basin is host to over 20 sedex deposits, and has been estimated to contain a total tonnage potential of 900 million tonnes (Carne \& Cathro, 1981). The Kechika Trough, which is the southern extension of the Selwyn Basin, hosts 12 documented sedex occurrences. Among these are the Cirque ( 32.2 million tonnes of $10.0 \%$ combined $\mathrm{Zn}-\mathrm{Pb}, 48 \mathrm{~g} / \mathrm{T} \mathrm{Ag}$ ) Driftpile, and Akie deposits. These deposits are found in Road River Group and Lower Earn Group strata.

A secondary exploration target is poly-metallic volcanogenic massive sulphide deposits (VMS). These are syngenetic stratiform deposits of copper, zinc, lead, silver and gold occurring in marine volcanic rocks or associated marine sedimentary rocks. VMS deposits share similarities to sedex deposits as they are both formed by discharge of hydrothermal fluids onto the seafloor. The VMS deposits often contain 5 to 20 million tonnes and can attain high grades (ex. Wolverine, \$270/tonne).

## Mineral Occurrences in the Northern Kechika Trough Area

Kitza Showing: On Kitza Creek, about 3 km east of Kitza Lake, low grade sulphide vein mineralization occurs in "Kitza Creek facies" siltstone-limestone. Several dozen veins contain one or more of tetrahedrite, sphalerite, barite, and rare galena. An aerial electromagnetic survey consisting of over 600 line km was flown over the Kitza area in 1981. The 3 main anomalous areas were thought to be graphitic shears, but ground soil surveying and geological mapping located a large number of scattered low-grade showings. Small and patchy soil anomalies are associated with these mineral showings.

Red Showing: This showing occurs on the banks of the Red River, 5 km upstream from the junction with the Kechika River. Low grade vein mineralization occurs at 3 localities within a kilometre. A quartz breccia zone and quartz veins carry sphalerite, galena, pyrite, smithsonite and minor chalcopyrite.

Roman: The Roman zinc-lead-silver showing is hosted in Earn Group rocks just south of the Yukon-B.C. border. Several concordant to discordant sphalerite and galena bands up to 20 cm thick are hosted by graphitic slate and silty limestone. These bands can be traced for 10 metres before they disappear under the Liard River. A silicified zone at the contact contains quartz veins with patches of sulphide mineralization. The mineralization has been suggested to be part of a sedex feeder system or related to regional folding. Assays from the mineralized lenses have returned values of $22.6 \% \mathrm{Zn}, 46.3 \% \mathrm{~Pb}$ and $23 \mathrm{~g} /$ tonne Ag . The property has been extensively explored by geological mapping, geophysical surveys and some diamond drilling. The presence of bedded barite, pyrite and stratabound lenses of sphalerite and galena suggest that the right conditions have existed to form sedex deposits in the northern Kechika Trough.

Boya: The Boya porphyry/skarn prospect is located on Boya Hill, 10 km southwest of Graveyard Lake. Low grade tungsten and chalcopyrite and molybdenum occurs at the Main Face and.West Hill showing areas. At the Main Face, quartz-biotite-feldspar porphyries intrude Proterozoic host rocks forming a calc-silicate rock locally mineralized with pyrrhotite, chalcopyrite and scheelite. The most significant mineralization occurs in quartz stockworks and fracture-filling veins in the intrusion and altered metasediments which contain molybdenite and minor scheelite. At the West Hill showing, 3.5 km to the northeast, skarn mineralization consists of massive pyrrhotite with minor chalcopyrite, arsenopyrite, sphalerite, galena, bismuthinite and variable molybdenite.

Kechika River Barite: This barite-pyrite stratiform deposit occurs along a creek valley 9 km NW of Gemini Lakes and 1 km upstream from the creek's junction with the Kechika River. The barite is at least 4 m thick with local finely disseminated pyrite and is overlain by a sequence of slate with pyrite concretions, barite nodules, and finely laminated pyrite. The occurrence is hosted in Earn Group rocks.

## PROPERTY GEOLOGY

The claim area has been previously mapped by Texasgulf Inc. and more recently by the B.C. Geological Survey (Ferri et al., 1997). The property is underlain by Upper Proterozoic Hyland Group sedimentary rocks, but may include rocks of Cambrian age. Northeastward along the main part of the hill, the rocks are described as variously hornfelsed, hydrothermally altered and mineralized (unit $\mathrm{PH}_{\mathrm{H}}$ ). Outcrops of limestone or sandy limestone form prominent exposures at the top of the ridge and may be thinly interlayered with slaty siltstone or chert on the southeast slope. At the southwest end of the hill, typical grey to orange-weathering coarse sandstone to granule conglomerate is associated with several ribs of limestone and slate. The northwest facing slopes contain exposures of interlayered quartz sandstone, siltstone, slaty siltstone; chert; interlayered chert and quartz sandstone or quartzite; and recrystallized limestone.

Volcanic rocks (unit PHV) form a mappable unit several hundred metres thick and are exposed at several localities including the southeast corner of the claims. These volcanics are typically buff to orange-brown weathering, green to brown tuff and lapilli tuff. The rocks are intensely altered with calcite and quartz.

Intrusives on the property consist of Cretaceous dikes, sills and small stocks of medium grained quartz-biotite-feldspar porphyry and quartz porphyry. These intrusives are associated with tungsten-molybdenum skarn mineralization. The quartz-biotite-feldspar porphyry is of quartz monzonite or granodiorite in composition. Thin dikes of quartz-feldspar $\pm$ biotite porphyry with a dark purplish groundmass are also present (Ferri et al., 1997).

The claims cover the Boya West Hill Showing, located on the northwest ridge of the hill. Skarn mineralization is associated with porphyritic bodies intruding limestone, slate, siltstone and quartz sandstone. The main mineralization at the West Hill and nearby Night Hawk Hill areas occurs in diopside-quartz skarn in marble or porcellanite which locally contains metre-scale lenses of massive pyrrhotite with minor chalcopyrite and traces of very fine scheelite. Quartz stockworks and veins are common in the porphyries and altered metasediments ranging from sparse to swarms of veins constituting $50 \%$ of the rock volume. Drilling by Texasgulf intersected erratic scheelite and molybdenite with assays ranging up to $0.64 \% \mathrm{MoS}_{2}$ and $0.38 \%$ $\mathrm{WO}_{3}$. Minor amounts of arsenopyrite, sphalerite, galena and bismuthinite were also found in
drill core. Widespread hydrothermal alteration is present with progressive chloritic and carbonate-sericite alteration (Minfile 94M 016).

About 1 km east of the property boundary, the Boya Main Face Showing contains similar skarn mineralization with pyrrhotite, chalcopyrite, scheelite and molybdenite. The most significant molybdenite mineralization is hosted by quartz stockworks and fracture-filling veins in the intrusions and altered metasediments. Drilling intersected low values with up to $0.2 \% \mathrm{MoS}_{2}$ and $0.55 \% \mathrm{WO}_{3}$, but overall values are considerably lower (Minfile 94M 021).


## LATE CRETACEOUS TO EARLY TERTIARY(?)



CRETACEOUS(?)


EARLY CRETACEOUS


EARLY PALEOZOIC(?)
g Gebive Orange-brown weathering. spock tod


UPPER CAMBRIAN AND ORDOVICIAN



UPPER PROTEROZOIC AND CAMBRIAN


PROTEROZOIC

## UPPER PROTEROZOIC



UPPER PROTEROZOIC(?) TO PALEOZOIC
 cher. Gray to bu if yellow, sing most

## SYMBOLS



IZARD EXPLORATIONS INC. DONEGAL DEVELOPMENTS LTD. KECHIKA PROPERTY LEGEND FOR PROPERTY GEOLOGY

N.T.S. $94 \mathrm{M}, \mathrm{IO} 4 \mathrm{P}$<br>LIARD M.D.,B.C.

## 1997 EXPLORATION PROGRAM

## GRID SYSTEM


#### Abstract

A single grid totaling 6.0 line km was established on the H Block [Figure 9] across anomalous aerial magnetic responses as advised by Mr. Ron Sheldrake, geophysicist with Questor Surveys. Minor adjustments to the position of the lines may subsequently have been made by the writers to avoid lakes, rivers or other serious obstacles. The grid were put in using compass and hip chain. Lines were spaced 200 m apart and stations marked at 50 m intervals along the lines with red flagging.


Grid HA consists of three lines extending $2,000 \mathrm{~m}$ at $047^{\circ}$ across a narrow northwest trending aeromagnetic low anomaly.

## GROUND GEOPHYSICAL SURVEY

Introduction
Very low frequency electromagnetic (VLF-EM) and magnetic geophysical surveys were carried over areas of the claim blocks selected on the basis of an aeromagnetic survey. The surveys were done simultaneously with two EDA OMNI PLUS instruments equipped for both VLF-EM and magnetic surveys. Diurnal variations in the geomagnetic field were recorded and removed from the magnetic results using a third EDA OMNI PLUS magnetometer operated in the base station mode. Two VLF-EM stations were utilized, namely, Seattle (Jim Creek), WA. (NLK) transmitting at 24.8 kHz and Hawaii (NPM) transmitting at 21.4 kHz . The Seattle station, located to the southeast of the project area, was the primary station providing ideal coupling with the anticipated northwest/southeast geological trends. Although not so favourably located, the Hawaii transmitter, acted as both a backup station, when the Seattle transmitter was off the air for repairs and/or scheduled maintenance, and an alternate station for more easterly trending features. Readings were taken at 25 m intervals.

The data has been plotted and interpreted by J.L. LeBel, Geophysicist. The results of the survey are posted and profiled separately on the accompanying maps [Figures 6A, 7A] at a scale of $1: 5,000$. For the VLF-EM survey, the in-phase and the quadrature components of the vertical magnetic field are in per cent (\%) of the horizontal primary field (i.e. the tangent and ellipticity) are presented. The magnetic results show the total magnetic field in nano Teslas ( nT ). For VLF-EM survey the horizontal field strength is also profiled although the data is not posted due to space limitations.

As most of the grids consist of 3 lines or less, the three individual sets of results are stacked on one plan map. For the grids with more than 4 lines the results are presented on individual maps.

Valid VLF-EM anomalies, as marked on the maps, are indicated by positive to negative sense inflections or cross-overs in the in-phase component considered from west to east for east/west lines and south to north for north/south lines. Quadrature phase anomalies may have any sense. Field strength over anomalies always increases thereby provides a secondary confirmation that an anomaly is valid. Anomaly locations are not routinely provided for the Hawaii station because the results tend to be redundant.

## Grid HA

The magnetic survey outlined a 100 to 150 nT low in the west on which some small highs appear to be superimposed. A small high also occurs on line 3 N at 1550E. The VLF-EM survey outlines numerous anomalies as indicated on the Seattle results which are more or less replicated by the Hawaii results. Two VLF-EM anomalies near 700E on line 1 N occur on either edge of a small magnetic high and the magnetic high at $3 \mathrm{~N}, 1550 \mathrm{E}$ correlates with a poor VLFEM anomaly.

## SOIL GEOCHEMICAL SURVEY

A soil survey was conducted over the two grids, with a total of 122 samples collected. The soil horizon generally consisted of a $10-30 \mathrm{~cm}$ deep A-horizon and a mostly well developed Bhorizon at about $5-15 \mathrm{~cm}$ depth. On north facing slopes, the soil horizons were less well developed. Samples were collected from the B-horizon in kraft paper bags and partially dried before shipping to Acme Analytical Labs in Vancouver. A 32-element ultratrace ICP and wet geochemical gold analysis was conducted on the samples. Barium values are not total. Refer to Figure 8A for element plots and profiles and Appendix A for complete analytical results.

Table 2: Soil Statistics Summary

| ELEMENT | MIN | MAX | MEAN | MEDIAN | THRESHOLD* |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Mo (ppm) | 0.3 | 2.3 | 1.2 | 1.1 | 1.9 |
| $\mathrm{Cu}(p p m)$ | 4.7 | 67.6 | 11.6 | 9.3 | 27.9 |
| Pb (ppm) | 1.5 | 22.9 | 10.0 | 9.7 | 17.3 |
| $\mathrm{Zn}(\mathrm{ppm})$ | 8.5 | 190.6 | 59.3 | 54.5 | 111.6 |
| Ag (ppb) | $<30$ | 439 | 76 | 65 | 205 |
| $\mathrm{Ni}(\mathrm{ppm})$ | 1 | 40 | 20 | 20 | 33 |
| $\mathrm{Mn}(\mathrm{ppm})$ | 138 | 1750 | 453 | 323 | 1104 |
| $\mathrm{Fe}(\%)$ | 0.21 | 4.74 | 2.49 | 2.57 | 3.92 |
| As (ppm) | 0.8 | 129.0 | 7.9 | 4.1 | 35.6 |
| U (ppm) | $<5$ | 11 | 3 | 3 | 5 |
| Cd (ppm) | 0.02 | 1.49 | 0.20 | 0.13 | 0.67 |
| Sb (ppm) | 0.2 | 1.7 | 0.5 | 0.4 | 1.0 |
| Bi (ppm) | $<0.1$ | 2.2 | 0.2 | 0.1 | 0.8 |
| Ca (\%) | 0.12 | 12.66 | 1.32 | 0.28 | 6.25 |
| P (\%) | 0.015 | 0.185 | 0.057 | 0.054 | 0.118 |
| Ba (ppm) | 113 | 735 | 235 | 217 | 427 |
| Hg (ppb) | $<10$ | 82 | 26 | 22 | 57 |
| Se (ppm) | $<0.3$ | 21.4 | 1.1 | 0.2 | 6.9 |
| Au (ppb) | $<1$ | 18 | 1 | 1 | 5 |
| $\mathrm{n}=122$ |  |  |  | $*=$ mean + 2(std dev) |  |

## Results

HA Grid:
Soil values from this grid show a few scattered anomalous values in molybdenum, copper and zinc on the west side with more continuous anomalies towards the east end of the grid. In total, 5 samples are anomalous in molybdenum, 4 in copper, 6 in zinc, 4 in lead, 5 in silver, 5 in
arsenic, 7 in antimony, 7 in mercury and 7 in cadmium. On line 1N, between 1300-1850E, multi-element anomalous samples are present with nine out of twelve samples anomalous in one or more of copper, molybdenum, zinc, lead, silver, antimony, bismuth, mercury and selenium. The east sides of lines 2 and 3 also contain similar anomalous elements (plus arsenic) but with a more sporadic distribution.


R. Chow, B.Sc.

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c) Devono-Mississippian Tectonics and Mineral Deposits of the Cordilleran Margin; S. Gordey, Geological Survey of Canada.
d) Wolverine Deposit, Yukon; T. Tucker, Westmin Resources Ltd.
e) The Yukon-Tanana Terrane: The Devono-Mississippian Story; S.T. Johnston, Canada/Yukon Geoscience Office.

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## STATEMENT OF COSTS

Wages
Seamus Young, Supervision
Aug. 3; 1 day @ \$330/day ..... 330
Jim Donaldson, Supervision
Aug. 3; 1 day @ \$275/day ..... 275
Dave O'Neil, Soil Sampler
Aug. 3; 1 day @ \$220/day ..... 220
Sam Skiber, Soil Sampler
Aug. 3; 1 day @ \$110/day ..... 110
Graeme Zucko, Soil Sampler
Aug. 3; 1 day @ \$110/day ..... 110
Shawn Ryan, Mag/EM Surveying
Aug. $5 ; 6.0 \mathrm{~km} @ \$ 38.5 / \mathrm{km}$ ..... 231
Mary Charlie, Camp Cook
Aug. 3; 1 day @ \$220/day ..... 220
Food \& Accommodation
Meals - 7 mandays @ \$25/day ..... 175
Camp Costs (apportioned) ..... 635
Transportation
Airfare - 4 round trips, Vancouver to Watson Lake (apportioned cost) ..... 229
Vehicle rental - $24 \times 4$ trucks, 32 days @ \$40/day (apportioned cost) ..... 98
Gas (apportioned cost) ..... 38
Helicopter - 3.5 hours @ \$800/hr. ..... 2,800
Analyses and Shipping
122 soil samples @ \$16.75/sample (ultratrace ICP + geochem gold) ..... 2,044
Equipment/Supplies
Mag/EM rental - 1 day @ \$300/day ..... 300
Base Maps (apportioned cost) ..... 114
Report Preparation / Drafting / Reproduction ..... 800
Total: ..... \$8,729

## CERTIFICATE

I, EGIL LIVGARD, of 1990 King Albert Avenue, Coquitlam, B.C., do hereby certify:

1. I am a Consulting Geological Engineer, practising from \#436-470 Granville Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, with a B.Sc., 1960 in Geological Sciences and have regularly updated and expanded my geological knowledge through numerous short courses given by MDRU, GAC, the Chamber of Mines, and B.C.G.S.
3. I am a registered member in good standing of the Association of Professional Engineers of the Province of British Columbia, Registration No. 7236.
4. I have practised my profession for over 30 years.
5. This report is based on the writer's property examinations during the period of July 17th - 22nd, 1997 and on references as listed.
6. I confirm that I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the properties of Tizard Explorations Inc. or any affiliate, or beneficially own, directly or indirectly, any securities of Tizard Explorations Inc. or any affiliate.

Dated at Vancouver, British Columbia this 21st day of November, 1997.


## STATEMENT OF QUALIFICATIONS

I, Rita Chow of 5615 Dumfries Street, Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia with a B.Sc. Degree (first class standing) in Geological Sciences in June, 1995.
2. I have been employed with Donegal Developments Ltd. since June of 1995.
3. This report is based on work done on the property during the period of July 6th to Aug. 8th, 1997 and on references as listed.
4. I have no interest, direct or indirect, in the Kechika Property or in the securities of Tizard Explorations Inc. nor do I expect to receive any.

## STATEMENT OF QUALIFICATIONS

I, J. L. LeBel, of 2684 Violet Street, North Vancouver, British Columbia hereby certify:

1. I am a graduate of the Queens University and the University of Manitoba and I hold a BSc. degree in geological engineering and a MSc. degree in geophysics.
2. I am a Professional Engineer registered with the Association of Professional Engineers and Geoscientists of British Columbia.
3. I have been employed in mining exploration on a full time basis as geophysicist with various companies since graduation in 1972.
J.L. LeBel, P.Eng.

DATED at Vancouver, British Columbia, this 10th day of October, 1997.

## APPENDIX A

## Certificates of Analyses



| SAMPLE\# | Mo <br> ppm | $\begin{gathered} \mathrm{Cu} \\ \mathrm{ppm} \end{gathered}$ | $\begin{array}{r} \mathrm{Pb} \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} 2 n \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} \mathrm{Ag} \\ \mathrm{ppb} \end{array}$ | $\underset{\text { ppim }}{\underset{\mathrm{Ni}}{2}}$ | $\begin{gathered} \text { Co } \\ \text { pprin } \end{gathered}$ | Mn <br> ppm | $\begin{gathered} \mathrm{Fe} \\ \% \end{gathered}$ | $\begin{array}{r} \text { As } \\ \text { Ppm } \end{array}$ | $\begin{array}{r} \mathrm{U} \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} \text { Th } \\ \text { ppon } \end{array}$ | $\begin{gathered} \mathrm{Sr} \\ \mathrm{pppm} \end{gathered}$ | $\mathrm{Cd}$ | $\begin{array}{r} \mathrm{Sb} \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} \mathrm{Bi} \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} v \\ \mathrm{ppm} \end{array}$ | $\begin{gathered} \mathrm{Ca} \\ \% \end{gathered}$ |  | La ppm | $\underset{\mathrm{ppm}}{\mathrm{Cr}}$ | $\begin{gathered} \mathrm{Mg} \\ \% \end{gathered}$ | $\begin{gathered} \mathrm{Ba} \\ \mathrm{ppm} \end{gathered}$ | $\begin{array}{r} \mathrm{Ti} \\ \mathbf{\%} \end{array}$ | $\begin{array}{r} B \\ \text { pprn } \end{array}$ | $\begin{array}{r} \mathrm{AL} \\ \mathrm{n} \quad \% \\ \hline \end{array}$ | $\begin{gathered} \mathrm{Na} \\ \mathrm{Z} \end{gathered}$ | $\begin{aligned} & K \\ & \mathbf{K} \end{aligned}$ | $\begin{gathered} \mathrm{W} \\ \text { ppm } \end{gathered}$ |  | $\begin{array}{r} \mathrm{Hg} \\ \mathrm{pppb} \end{array}$ | $\begin{array}{r} \mathrm{Se} \\ \mathrm{ppx} \end{array}$ | Te ppm | $\begin{array}{r} \text { Ga } \\ \text { pprn } \end{array}$ | Aut ppb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HA2N 1650E | 1.0 | 19.4 | 10.3 | 76.5 | <30 | 30 | 10 |  | 3.41 | 3.8 | <5 | 3 | 20 | .17 | . 3 | . 1 | 54 | . 22 | . 065 | 14 | 34 | . 40 | 285 | . 10 | 3 | 2.01 | . 02 | . 09 | 2 | < 2 | 29 | <. 3 | <. 2 | 8.0 | $<1$ |
| HA2N 1700 E | 1.0 | 13.7 | 7.6 | 33.3 | 33 | 12 | 5 | 322 | 1.24 | 6.9 | $<5$ | $<2$ | 163 | . 31 | . 5 | . 1 | 16 | 5.62 | . 079 | 11 | 9 | . 71 | 118 | . 01 | <3 | . 39 | . 01 | . 04 | <2 | <. 2 | 26 | 3 | <. 2 | 1.8 | <1 |
| HA2N 1750E | . 7 | 5.0 | 1.5 | 8.5 | <30 | $<1$ | 2 | 1045 | . 21 | <. 5 | $<5$ | <2 | 274 | . 33 | . 2 | <. 1 | 2 | 5.37 | . 065 | 1 | 2 | . 57 | 219 | <. 01 | 9 | . 13 | 01 | . 02 | $<2$ | <. 2 | 47 | 1.6 | <.2 | . 2 | 2 |
| HA2N 1850 E | 1.1 | 16.4 | 7.2 | 61.9 | 110 | 15 | 6 | 1032 | 2.85 | 42.2 | $<5$ | <2 | 256 | . 91 | . 4 | . 2 | 15 | 5.92 | . 109 | 6 | 9 | . 51 | 340 | . 01 | 11 | . 52 | . 01 | . 05 | <2 | <. 2 | 57 | 5.2 | <. 2 | . 7 | 1 |
| HA2N 1900E | 1.6 | 28.5 | 18.4 | 49.1 | 213 | 27 | 9 | 233 | 2.70 | 42.7 | $<5$ | 4 | 52 | . 21 | 1.2 | . 8 | 33 | 1.88 | . 053 | 22 | 18 | . 41 | 217 | . 01 | < 3 | 1.12 | 01 | . 10 | <2 | <. 2 | 82 | . 5 | <.2 | 3.9 | 3 |
| HA2N 1950E | 1.7 | 24.8 | 18.8 | 58.9 | 133 | 27 | 10 | 300 | 2.93 | 31.3 | $<5$ | 5 | 20 | . 15 | 1.1 | . 8 | 34 | . 26 | . 067 | 25 | 21 | . 36 | 186 | . 02 | $<3$ | 1.15 | . 01 | . 12 | 2 | <. 2 | 43 | . 3 | <. 2 | 3.9 | 1 |
| HAZN 2000E | 1.2 | 10.5 | 10.5 | 56.5 | 57 | 17 | 8 | 474 | 2.47 | 6.4 | $<5$ | 3 | 22 | . 14 | . 5 | .3 | 39 | . 26 | . 060 | 15 | 22 | . 32 | 207 | . 05 | <3 | 1.14 | . 01 | . 08 | 2 | <. 2 | 29 | <. 3 | <. 2 | 4.6 | $<1$ |
| HA1N DE | . 3 | 18.4 | 9.2 | 45.6 | 140 | 9 | 3 | 574 | . 69 | . 9 | $<5$ | 3 | 632 | 1.03 | . 5 | . 1 | 12 | 12.66 | . 073 | 4 | 8 | . 74 | 314 | . 01 | 10 | . 48 | 01 | . 05 | <2 | < 2 | 27 | 21.4 | <. 2 | 2.5 | 1 |
| HAIN 50E | 1.7 | 13.9 | 16.8 | 43.2 | 84 | 20 | 8 | 282 | 2.41 | 7.6 | $<5$ | 3 | 64 | . 13 | . 7 | . 2 | 33 | 1.58 | . 051 | 25 | 18 | . 45 | 158 | . 01 | 3 | . 93 | . 01 | . 11 | <2 | <. 2 | 47 | 3.4 | <. 2 | 3.3 | 3 |
| HAIN 100E | 1.2 | 9.3 | 9.2 | 37.7 | 40 | 15 | 7 | 281 | 2.32 | 3.4 | $<5$ | 3 | 22 | . 07 | . 4 | . 2 | 44 | . 23 | . 016 | 13 | 26 | . 39 | 209 | . 05 | <3 | 1.11 | . 01 | . 05 | <2 | . 2 | 14 | 4 | <. 2 | 4.1 | 1 |
| haln 150e | 1.7 | 11.6 | 15.5 | 48.3 | 73 | 17 | 8 | 567 | 2.42 | 6.6 | $<5$ | 3 | 26 | . 13 | . 7 | . 2 | 31 | .41 | . 024 | 18 | 17 | .31 | 275 | . 01 | 3 | . $97<$ | < 01 | . 11 | $<2$ | $<.2$ | 35 | . 8 | < 2 | 3.2 | 1 |
| haln 200e | 1.3 | 10.6 | 10.0 | 44.1 | <30 | 20 | 8 | 226 | 2.52 | 4.4 | <5 | 5 | 17 | . 04 | . 5 | . 1 | 38 | . 18 | . 032 | 14 | 25 | . 38 | 151 | . 07 | $<3$ | 1.11 | . 01 | . 11 | <2 | <. 2 | 28 | . 3 | <. 2 | 4.2 | 1 |
| HA1N 250 E | 1.7 | 20.4 | 16.7 | 46.1 | 67 | 26 | 9 | 315 | 2.78 | 11.8 | 5 | 4 | 33 | . 09 | . 8 | . 1 | 36 | . 71 | . 050 | 28 | 21 | . 35 | 295 | . 01 | $<3$ | 1.12 | . 01 | . 13 | <2 | <. 2 | 52 | . 9 | <. 2 | 3.8 | 1 |
| HA1N 300E | 1.2 | 8.8 | 9.1 | 34.0 | <30 | 11 | 6 | 235 | 1.75 | 3.7 | $<5$ | 3 | 14 | . 04 | . 4 | . 1. | 28 | . 14 | . 028 | 16 | 16 | . 22 | 177 | . 02 | $<3$ | .76 | <. 01 | . 05 | <2 | < 2 | 25 | 3 | <. 2 | 3.2 | $<1$ |
| HAIN 350E | 1.1 | 9.3 | 7.9 | 44.3 | 30 | 19 | 7 | 219 | 2.53 | 2.6 | <5 | 3 | 20 | . 05 | . 4 | <. 1 | 45 | . 20 | . 015 | 12 | 27 | . 40 | 159 | . 08 | $<3$ | 1.19 | . 01 | . 06 | <2 | <. 2 | 31 | . 3 | <. 2 | 5.2 | 1 |
| HATN 400 E | 1.2 | 7.6 | 8.9 | 36.4 | <30 | 14 | 6 | 196 | 2.28 | 4.1 | $<5$ | 3 | 15 | . 05 | . 4 | . 1 | 38 | . 16 | . 022 | 12 | 20 | . 28 | 140 | . 05 | $<3$ | . 98 | . 01 | . 06 | $<2$ | <. 2 | 23 | <. 3 | <. 2 | 4.1 | 1 |
| HAIN 450E | . 8 | 6.3 | 8.8 | 58.3 | <30 | 19 | 8 | 461 | 2.36 | 1.9 | $<5$ | 3 | 17 | . 08 | . 2 | . 1 | 41 | . 20 | . 050 | 11 | 23 | . 36 | 236 | . 05 | <3 | 1.19 | . 01 | . 07 | <2 | < 2 | 13 | <. 3 | <. 2 | 4.5 | 1 |
| HAIN 500E | 1.4 | 10.5 | 13.9 | 81.2 | 96 | 25 | 9 | 631 | 3.11 | 4.3 | $<5$ | 3 | 30 | . 27 | . 5 | . 1 | 51 | . 35 | . 056 | 13 | 30 | . 40 | 287 | . 12 | <3 | 1.56 | . 01 | . 15 | <2 | <. 2 | 25 | . 4 | <. 2 | 7.4 | 1 |
| HAIN 550E | 2.3 | 67.6 | 12.3 | 110.4 | 107 | 40 | 18 | 460 | 4.07 | 9.9 | $<5$ | 2 | 45 | . 47 | . 5 | 1.8 | 69 | . 78 | . 042 | 11 | 31 | 1.72 | 181 | . 07 | <3 | 2.83 | . 02 | . 22 | <2 | <. 2 | 11 | 3.0 | <. 2 | 8.6 | 6 |
| HA1N 600E | 1.8 | 42.2 | 15.3 | 169.5 | <30 | 29 | 11 | 322 | 3.17 | 12.0 | < 5 | 7 | 51 | . 46 | . 7 | 2.2 | 50 | . 44 | . 018 | 19 | 34 | 1.08 | 321 | . 07 | <3 | 2.45 | . 04 | . 12 | <2 | <. 2 | 15 | 2.0 | <. 2 | 8.4 | 1 |
| RE HA1N 600 E | 1.3 | 40.6 | 12.1 | 167.4 | $<30$ | 28 | 11 | 314 | 3.09 | 9.4 | < 5 | 6 | 50 | . 36 | . 5 | 1.8 | 48 | . 42 | . 019 | 18 | 32 | 1.05 | 318 | . 07 | <3 | 2.39 | . 04 | . 12 | <2 | <. 2 | <10 | 1.7 | < 2 | 6.9 | 1 |
| HA1N 650E | 1.0 | 13.0 | 7.4 | 50.2 | 56 | 26 | 9 | 250 | 2.86 | 4.7 | $<5$ | 3 | 26 | . 11 | . 4 | . 1 | 52 | . 32 | . 030 | 10 | 35 | . 49 | 149 | . 11 | $<3$ | 1.49 | . 01 | . 09 | <2 | < 2 | 10 | 1.0 | < 2 | 5.2 | 2 |
| HATN 700E | . 8 | 10.5 | 9.4 | 69.2 | 47 | 25 | 10 | 506 | 2.89 | 5.3 | < | 4 | 25 | .11 | . 4 | $\cdot 1$ | 51 | . 31 | . 065 | 13 | 29 | . 47 | 262 | . 08 | $<3$ | 1.51 | . 01 | . 08 | <2 | < 2 | 22 | . 5 | <. 2 | 5.4 | <1 |
| HA1N 750E | 1.2 | 10.5 | 11.6 | 67.3 | 41 | 21 | 8 | 217 | 2.92 | 13.8 | < | $<2$ | 19 | . 12 | . 5 | .3 | 48 | . 24 | . 049 | 14 | 25 | . 39 | 113 | . 05 | <3 | 1.27 | . 01 | . 08 | <2 | <. 2 | 10 | < 3 | < 2 | 5.4 | 1 |
| HA1N 800E | 1.6 | 8.3 | 11.1 | 43.9 | 73 | 20 | 7 | 248 | 2.79 | 11.9 | $<5$ | 2 | 20 | .12 | . 4 | . 2 | 41 | . 26 | . 030 | 13 | 22 | . 34 | 164 | . 05 | <3 | 1.34 | . 01 | . 07 | <2 | <. 2 | <10 | <. 3 | <.2 | 6.0 | 1 |
| HA1N 850E | 1.1 | 12.4 | 8.9 | 48.3 | 38 | 20 | 8 | 211 | 2.66 | 16.7 | $<5$ | 4 | 22 | . 09 | . 5 | .3 | 42 | . 24 | . 062 | 15 | 24 | .43 | 160 | . 06 | 3 | 31.16 | . 01 | . 11 | <2 | <. 2 | <10 | . 3 | <. 2 | 4.3 | 3 |
| HA1N 900E | 1.4 | 12.7 | 10.8 | 60.3 | 43 | 18 | 9 | 267 | 2.57 | 14.7 | <5 | 3 | 19 | . 19 | . 7 | . 2 | 39 | . 23 | . 070 | 17 | 22 | . 29 | 161 | . 03 | <3 | . 98 | . 01 | . 07 | <2 | <. 2 | <10 | . 6 | <. 2 | 3.4 | 2 |
| HA1N 950E | . 9 | 6.5 | 7.6 | 46.7 | 64 | 12 | 6 | 245 | 1.90 | 3.9 | < 5 | <2 | 17 | . 07 | . 3 | . 1 | 33 | . 24 | . 043 | 13 | 19 | . 30 | 159 | . 04 | 3 | 3.96 | . 01 | . 05 | <2 | <. 2 | 20 | < 3 | <. 2 | 3.8 | <1 |
| HA1N 1000E | . 9 | 10.7 | 7.6 | 40.8 | 38 | 18 | 8 | 270 | 2.29 | 3.2 | < | 4 | 21 | . 02 | . 3 | <. 1 | 37 | . 27 | . 045 | 11 | 22 | . 43 | 118 | . 05 | $<3$ | 1.05 | . 01 | . 05 | <2 | <. 2 | 16 | . 3 | <. 2 | 3.8 | 1 |
| HA1N 1050 E | 1.0 | 9.5 | 6.8 | 48.0 | <30 | 18 | 8 | 229 | 2.41 | 4.7 | $<5$ | 4 | 16 | . 04 | . 4 | <. 1 | 40 | . 20 | . 043 | 16 | 25 | . 40 | 151 | . 04 | <3 | 1.19 | . 01 | . 05 | <2 | <. 2 | 19 | <. 3 | <.2 | 3.9 | 1 |
| HA1N t100E | 1.2 | 18.2 | 12.6 | 56.1 | 86 | 25 | 9 | 283 | 2.81 | 9.1 | $<5$ | 5 | 22 | . 09 | . 7 | . 1 | 39 | . 34 | . 082 | 25 | 23 | . 39 | 248 | . 03 | $<3$ | 31.30 | . 01 | . 09 | <2 | < 2 | 33 | 5 | < 2 | 4.4 | 1 |
| HATN 1150E | 1.1 | 7.0 | 6.1 | 37.1 | <30 | 15 | 6 | 169 | 2.29 | 3.9 | $<5$ | 2 | 18 | . 04 | . 3 | <. 1 | 43 | . 21 | . 021 | 12 | 23 | . 34 | 146 | . 05 | $<3$ | . 97 | . 01 | . 05 | $<2$ | <. 2 | <10 | <. 3 | <. 2 | 3.8 | 1 |
| HA9N 1200E | . 9 | 7.4 | 7.7 | 54.9 | 47 | 18 | 7 | 276 | 2.54 | 6.7 | $<5$ | 3 | 16 | . 08 | . 4 | . 1 | 43 | . 19 | . 033 | 13 | 24 | . 34 | 201 | . 06 | <3 | 1.19 | . 01 | . 05 | <2 | < 2 | <10 | < 3 | <. 2 | 4.6 | <1 |
| HAIN 1250E | 1.5 | 10.2 | 13.2 | 85.3 | 108 | 19 | 8 | 548 | 2.66 | 16.2 | $<5$ | 3 | 19 | . 29 | . 6 | . 3 | 37 | . 21 | . 041 | 15 | 21 | . 36 | 261 | . 04 | <3 | 1.16 | . 01 | . 08 | <2 | <. 2 | 22 | . 3 | <. 2 | 5.3 | <1 |
| STANDARD D2/ | 24.8 | 126.3 | 105.6 | 268.5 | 2015 | 31 | 17 | 1064 | 4.31 | 72.3 | 23 | 17 | 63 | 2.14 | 8.3 | 22.3 | 75 | . 71 | . 107 | 17 | 55 | 1.10 | 254 | . 14 | 25 | 2.34 | . 05 | . 70 | 20 | 2.4 | 472 | . 6 | 2.0 | 7.8 | 46 |

[^0]| SAMPLE\# | $\begin{array}{r} \text { Mo } \\ \text { Ppom } \end{array}$ | $\begin{array}{r} \mathrm{Cu} \\ \mathrm{PPP} \end{array}$ | $\begin{array}{r} \mathrm{Pb} \\ \mathrm{Ppm} \\ \hline \end{array}$ | $\begin{array}{r} 2 n \\ \text { pom } \end{array}$ | Ag ppb | $\underset{\text { ppon }}{\mathrm{Ni}}$ | $\begin{array}{r} \text { Co } \\ \text { ppm } \end{array}$ | $\begin{array}{r} \mathrm{Mn} \\ \mathrm{ppm} \end{array}$ | $\begin{gathered} \mathrm{Fe} \\ \% \end{gathered}$ | $\begin{array}{r} \text { As } \\ \text { pprn } \end{array}$ | $\underset{\mathrm{ppm}}{\mathrm{U}}$ | $\begin{array}{r} \text { Th } \\ \text { ppm } \end{array}$ | $\begin{array}{r} \mathrm{Sr} \\ \mathrm{ppm} \end{array}$ | $\begin{gathered} \mathrm{Cd} \\ \mathrm{ppm} \end{gathered}$ | $\begin{array}{r} \mathrm{Sb} \\ \mathrm{ppm} \end{array}$ | $\begin{gathered} \mathrm{Bi} \\ \mathrm{ppm} \end{gathered}$ | $\begin{array}{r} v \\ \text { ppon } \end{array}$ | $\begin{gathered} \mathrm{Ca} \\ \mathbf{Z} \end{gathered}$ | $\begin{aligned} & \mathrm{P} \\ & \% \end{aligned}$ | $\begin{array}{r} \text { La } \\ \text { ppm } \end{array}$ | $\begin{array}{r} \mathrm{Cr} \\ \mathrm{ppm} \end{array}$ | $\begin{array}{r} \mathrm{Mg} \\ \% \\ \hline \end{array}$ | $\begin{array}{r} \mathrm{Ba} \\ \mathrm{ppm} \\ \hline \end{array}$ | $\begin{gathered} \mathrm{Ti} \\ \% \\ \hline \end{gathered}$ | $\begin{array}{r} \mathrm{B} \\ \mathrm{ppm} \end{array}$ | $\begin{aligned} & \mathrm{Al} \\ & \% \\ & \hline \end{aligned}$ | $\begin{array}{r} \mathrm{Na} \\ \mathbf{\%} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{K} \\ & \boldsymbol{z} \\ & \hline \end{aligned}$ | $\begin{array}{r} W \\ \mathrm{ppm} \end{array}$ | $\begin{gathered} \mathrm{Tl} \\ \mathrm{ppn} \end{gathered}$ | $\begin{gathered} \mathrm{Hg} \\ \mathrm{ppb} \end{gathered}$ | $\begin{array}{r} \mathrm{Se} \\ \mathrm{ppm} \end{array}$ | Te ppm | $\begin{array}{r} \mathrm{Ga} \\ \mathrm{ppm} \end{array}$ | Aur ppb |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HAZN OE | 1.5 | 11.9 | 9.5 | 43.7 | 75 | 16 | 6 | 323 | 2.48 | 6.7 | $<5$ | 4 | 21 | . 08 | 1.7 | . 1 | 34 | . 25 | . 083 | 17 | 18 | . 31 | 205 | . 01 | 3 | . 89 | . 01 | . 08 | $<2$ | . 3 | 38 | . 4 | <. 2 | 3.5 | 2 |
| HAZN 50E | 1.2 | 5.9 | 13.2 | 55.9 | 86 | 20 | 8 | 489 | 2.74 | 3.2 | $<5$ | 3 | 23 | . 16 | . 5 | . 2 | 44 | . 29 | . 062 | 15 | 24 | . 39 | 223 | . 05 | 3 | 1.32 | . 01 | . 09 | $<2$ | <. 2 | 27 | <. 3 | <. 2 | 5.5 | <1 |
| HA2N 100E | 1.0 | 4.9 | 9.7 | 69.4 | 85 | 18 | 8 | 641 | 2.61 | 2.2 | $<5$ | 4 | 24 | . 17 | . 4 | . 2 | 44 | . 30 | . 096 | 15 | 26 | . 37 | 263 | . 06 | 4 | 1.25 | . 01 | . 08 | <2 | < 2 | 30 | <. 3 | <. 2 | 4.2 | <1 |
| HAZN 150E | 1.1 | 5.8 | 13.0 | 73.4 | 83 | 22 | 9 | 911 | 3.02 | 2.2 | $<5$ | 4 | 22 | . 17 | . 4 | .1 | 49 | . 26 | . 080 | 15 | 29 | . 40 | 399 | . 07 | <3 | 1.54 | . 01 | . 11 | <2 | < 2 | 30 | <. 3 | <,2 | 5.7 | <1 |
| HAZN 200E | 1.3 | 7.6 | 9.6 | 46.7 | 43 | 24 | 9 | 302 | 3.02 | 4.2 | < | 3 | 24 | . 07 | . 5 | .1 | 55 | . 28 | . 027 | 14 | 34 | . 49 | 216 | . 09 | <3 | 1.54 | . 01 | . 08 | <2 | <. 2 | 20 | <. 3 | 2 | 4.8 | <1 |
| HA2N 250 E | 1.2 | 5.8 | 11.6 | 55.1 | 70 | 22 | 9 | 602 | 2.85 | 2.5 | $<5$ | 4 | 21 | . 12 | . 4 | - 1 | 50 | . 24 | . 035 | 16 | 29 | . 40 | 340 | . 05 | $<31$ | 1.52 | . 01 | . 08 | $<2$ | . 2 | 37 | <. 3 | <. 2 | 5.0 | $<1$ |
| HALN 300E | 1.2 | 5.5 | 7.9 | 36.4 | $<30$ | 18 | 6 | 158 | 2.64 | 3.6 | $<5$ | 4 | 20 | . 03 | . 4 | . 1 | 50 | . 24 | . 025 | 14 | 28 | . 40 | 162 | . 06 | <3 | 1.28 | . 01 | . 06 | <2 | <. 2 | 24 | <. 3 | <. 2 | 3.9 | <1 |
| HA2N 350E | 1.2 | 7.0 | 11.7 | 63.0 | 87 | 17 | 8 | 702 | 2.54 | 2.5 | $<5$ | $<2$ | 31 | . 26 | . 4 | . 1 | 42 | . 47 | . 119 | 15 | 24 | . 33 | 428 | . 04 | $<3$ | 1.27 | . 01 | . 09 | <2 | <. 2 | 17 | <. 3 | 2 | 4.6 | 1 |
| HAZN 400E | 1.4 | 9.2 | 10.7 | 78.9 | 73 | 26 | 9 | 298 | 3.07 | 2.7 | $<5$ | 4 | 22 | . 20 | . 5 | . 2 | 55 | . 29 | . 029 | 11 | 35 | . 49 | 249 | . 10 | <3 | 1.63 | . 01 | . 08 | <2 | <. 2 | 31 | <.3 | <, 2 | 5.8 | <1 |
| HAZN 450E | 1.2 | 7.6 | 11.7 | 98.4 | 91 | 32 | 10 | 359 | 3.71 | 4.3 | <5 | 2 | 23 | . 21 | . 5 | . 2 | 63 | . 28 | . 086 | 13 | 36 | . 51 | 295 | . 11 | <3 | 2.04 | . 01 | . 07 | <2 | < 2 | 23 | <. 3 | <. 2 | 7.4 | <1 |
| HAZN 500E | 1.3 | 7.7 | 11.8 | 55.8 | 75 | 15 | 7 | 414 | 2.30 | 3.5 | $<5$ | 3 | 17 | .19 | . 5 | . 1 | 37 | . 23 | . 065 | 12 | 21 | . 35 | 230 | . 04 | $<3$ | . 99 | . 01 | . 06 | $<2$ | < 2 | 10 | <. 3 | <. 2 | 3.9 | 2 |
| HA2N 550E | 1.1 | 8.3 | 14.9 | 102.1 | 80 | 23 | 10 | 804 | 2.98 | 3.8 | $<5$ | 4 | 35 | . 25 | . 6 | . 6 | 45 | . 47 | . 098 | 15 | 26 | . 74 | 431 | . 07 | 3 | 1.74 | . 02 | . 17 | <2 | < 2 | 18 | <. 3 | <. 2 | 5.0 | 1 |
| HA2N 600E | 1.2 | 6.3 | 12.1 | 56.9 | 93 | 26 | 9 | 455 | 3.04 | 4.0 | $<5$ | 2 | 24 | . 14 | . 4 | . 4 | 60 | . 38 | . 022 | 12 | 29 | . 63 | 216 | . 09 | $<3$ | 1.72 | . 01 | . 13 | <2 | <. 2 | 22 | <. 3 | <, 2 | 6.2 | $<1$ |
| HA2N 650 E | 1.3 | 7.5 | 14.3 | 64.6 | 88 | 24 | 11 | 637 | 3.14 | 3.6 | <5 | 3 | 22 | . 16 | . 5 | . 2 | 51 | . 30 | . 072 | 13 | 29 | . 44 | 243 | . 09 | <3 | 1.60 | . 01 | . 09 | <2 | <. 2 | 33 | <. 3 | <. 2 | 6.4 | <1 |
| HALN 700E | . 9 | 5.2 | 8.3 | 50.3 | 39 | 16 | 7 | 272 | 2.46 | 1.6 | $<5$ | 2 | 16 | . 05 | . 3 | . 1 | 48 | . 21 | . 055 | 11 | 26 | .47 | 168 | . 05 | $<3$ | 1.23 | . 01 | . 05 | <2 | <. 2 | 20 | <. 3 | <. 2 | 4.2 | 2 |
| HAZN 750E | 1.0 | 10.5 | 16.5 | 68.1 | 129 | 25 | 9 | 577 | 3.16 | 6.3 | $<5$ | 4 | 27 | . 14 | . 6 | . 1 | 47 | . 39 | . 116 | 25 | 26 | . 38 | 439 | . 03 | 3 | 1.50 | . 01 | . 12 | $<2$ | <. 2 | 20 | <. 3 | < 2 | 4.5 | <1 |
| HA2N 800E | . 9 | 6.6 | 11.1 | 89.5 | 69 | 22 | 11 | 980 | 2.91 | 2.8 | <5 | 3 | 21 | . 19 | . 3 | . 1 | 52 | . 29 | . 061 | 15 | 29 | . 50 | 320 | . 07 | <3 | 1.61 | . 01 | . 06 | <2 | < 2 | 26 | <. 3 | <. 2 | 5.1 | 1 |
| HAZN 850E | 1.0 | 10.3 | 11.3 | 58.0 | 42 | 24 | 9 | 273 | 2.74 | 4.6 | $<5$ | 5 | 19 | . 07 | . 6 | . 1 | 42 | . 32 | . 085 | 17 | 28 | . 43 | 195 | . 05 | <3 | 1.21 | . 01 | . 09 | <2 | < 2 | 14 | <. 3 | . 2 | 3.6 | 1 |
| HAZN 900E | . 9 | 6.6 | 10.6 | 57.2 | 104 | 20 | 8 | 683 | 2.52 | 3.8 | < | 4 | 22 | . 16 | . 3 | . 1 | 41 | . 33 | . 047 | 17 | 24 | . 45 | 244 | . 06 | <3 | 1.28 | . 01 | . 09 | <2 | <. 2 | 21 | <. 3 | < 2 | 4.2 | 1 |
| HAZN 950E | 1.0 | 8.1 | 8.8 | 50.1 | 34 | 21 | 8 | 285 | 2.72 | 3.1 | 7 | 3 | 21 | . 06 | . 3 | . 1 | 49 | . 30 | . 029 | 11 | 30 | . 54 | 182 | . 07 | <3 | 1.46 | . 01 | . 06 | <2 | <. 2 | 23 | <. 3 |  | 4.4 | 1 |
| RE HA2N 950E | . 8 | 7.9 | 8.1 | 47.4 | 30 | 20 | 8 | 266 | 2.58 | 2.4 | $<5$ | 2 | 21 | . 05 | . 3 | . 1 | 46 | . 28 | . 029 | 11 | 28 | . 52 | 172 | . 07 | $<3$ | 1.41 | . 01 | . 05 | $<2$ | < 2 | 14 | <. 3 | <. 2 | 4.1 | 4 |
| HA2N 1000E | 1.1 | 8.0 | 9.5 | 48.2 | 87 | 23 | 9 | 272 | 2.77 | 4.7 | < 5 | 3 | 23 | . 07 | . 5 | . 1 | 49 | . 39 | . 067 | 16 | 30 | . 45 | 183 | . 06 | 3 | 1.57 | . 01 | . 07 | <2 | <. 2 | 20 | <. 3 | <. 2 | 4.7 | <1 |
| HA2N 1050E | 1.5 | 19.8 | 13.8 | 54.2 | 104 | 29 | 10 | 377 | 2.86 | 9.3 | <5 | 7 | 21 | . 06 | 1.0 | . 2 | 41 | . 31 | . 097 | 31 | 27 | . 44 | 167 | . 03 | $<3$ | 1.17 | . 01 | . 14 | <2 | < 2 | 30 | . 4 | <. 2 | 3.2 | <1 |
| HA2N 1100E | 1.3 | 6.4 | 8.8 | 42.5 | <30 | 13 | 6 | 267 | 2.15 | 5.2 | <5 | 4 | 16 | . 07 | . 5 | . 1 | 37 | . 19 | . 018 | 17 | 18 | . 31 | 172 | . 03 | <3 | 1.04 | . 01 | . 07 | <2 | <. 2 | 22 | <. 3 | <. 2 | 3.5 | <1 |
| HAZN 1150E | 1.2 | 6.3 | 9.9 | 54.7 | 52 | 21 | 7 | 295 | 2.93 | 4.7 | 6 | 4 | 20 | . 09 | . 5 | . 1 | 53 | . 24 | . 022 | 18 | 29 | . 42 | 250 | . 06 | <3 | 1.42 | . 01 | . 06 | <2 | . 2 | 29 | <. 3 | <. 2 | 4.7 | 1 |
| HA2N 1200E | 1.2 | 12.8 | 13.2 | 54.5 | 59 | 20 | 8 | 325 | 2.84 | 38.3 | $<5$ | 5 | 14 | . 12 | 1.1 | . 3 | 33 | . 16 | . 032 | 20 | 18 | . 35 | 185 | . 02 | 3 | 1.06 | . 01 | . 13 | <2 | < 2 | 17 | . 5 | < 2 | 2.6 | , |
| HAZN 1250E | 1.7 | 17.8 | 22.9 | 79.7 | 50 | 23 | 9 | 383 | 3.05 | 39.1 | < | 6 | 18 | . 14 | 1.2 | . 4 | 37 | . 22 | . 046 | 24 | 20 | . 41 | 239 | . 02 | 3 | 1.23 | . 01 | . 11 | <2 | . 2 | 36 | . 5 | < 2 | 3.1 | $<1$ |
| HA2N 1300E | 1.2 | 8.8 | 10.8 | 57.1 | 76 | 22 | 8 | 350 | 2.84 | 5.8 | < | 4 | 21 | . 19 | . 6 | . 2 | 49 | . 27 | . 067 | 16 | 28 | . 41 | 248 | . 06 | <3 | 1.57 | . 01 | . 06 | <2 | <. 2 | 29 | <. 3 | <. 2 | 5.6 | <1 |
| HA2N 1350 E | 1.1 | 6.4 | 9.7 | 65.5 | 50 | 20 | 9 | 338 | 2.86 | 3.0 | < | 4 | 17 | . 13 | . 4 | . 1 | 52 | . 22 | . 036 | 14 | 28 | . 45 | 275 | . 07 | <3 | 1.56 | . 01 | . 07 | <2 | < 2 | 29 | <. 3 | <. 2 | 5.1 | 1 |
| HA2N 1400E | . 9 | 11.5 | 11.1 | 119.7 | 193 | 36 | 10 | 290 | 3.49 | 5.4 | < 5 | 4 | 29 | . 33 | . 4 | . 2 | 54 | . 40 | . 067 | 18 | 34 | . 58 | 277 | . 10 | $<3$ | 1.87 | . 02 | . 07 | <2 | <. 2 | 50 | . 4 | <. 2 | 6.8 | <1 |
| HAZN 1450E | 1.0 | 19.0 | 10.9 | 74.8 | 97 | 25 | 8 | 299 | 2.47 | 9.1 | $<5$ | 3 | 30 | . 21 | . 6 | . 2 | 37 | . 49 | . 061 | 17 | 24 | . 53 | 245 | . 04 | <3 | 1.35 | . 01 | . 08 | $<2$ | <. 2 | 31 | . 3 | <. 2 | 3.7 | $<1$ |
| HA2N 1500E | 1.1 | 12.0 | 8.2 | 72.8 | 109 | 35 | 10 | 342 | 3.45 | 4.1 | $<5$ | 4 | 29 | . 08 | . 4 | . 1 | 54 | . 39 | . 072 | 17 | 35 | . 59 | 241 | . 13 | <3 | 2.11 | . 02 | . 05 | <2 | <. 2 | 35 | . 4 | < 2 | 6.6 | <1 |
| HA2N 1550E | 1.3 | 26.7 | 12.0 | 54.5 | 246 | 21 | 7 | 257 | 1.98 | 32.6 | < | 4 | 121 | . 35 | 1.2 | . 4 | 28 | 5.00 | . 066 | 15 | 16 | . 68 | 195 | . 01 | 3 | . 89 | . 02 | . 09 | $<2$ | < 2 | 65 | 1.0 | <. 2 | 2.5 | 2 |
| HAZN 1600E | 1.1 | 4.9 | 11.0 | 51.3 | 30 | 21 | 7 | 153 | 3.09 | 3.7 | < | 3 | 17 | . 09 | . 4 | . 3 | 52 | . 25 | . 044 | 13 | 28 | . 34 | 208 | . 07 | <3 | 1.44 | . 01 | . 06 | <2 | <. 2 | 42 | <. 3 | <. 2 | 5.8 | <1 |
| STANDARD D2/ | 26.3 | 132.2 | 104.9 | 284.8 | 2126 | 33 | 18 | 1060 | 4.57 | 76.9 | 19 | 19 | 60 | 2.15 | 8.2 | 23.0 | 79 | . 74 | . 108 | 17 | 59 | 1.21 | 271 | . 15 | 26 | 2.50 | . 06 | . 74 | 20 | 2.8 | 460 | . 3 | 2.1 | 7.7 | 46 |

[^1]

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline  \&  \& \multicolumn{2}{|l|}{} \& Ti \& zar \& d E \& xp \& r \& ati \& ons \& In \& nc \& \& RO \& \& \[
\mathrm{KE}
\] \& \& \& \& F \& \& \(\# 9\) \& 97 \& 433 \& \& \& \& \& \& \& \& \&  \&  \\
\hline SAMPLE\# \& \[
\begin{array}{r}
\text { Mo } \\
\text { ppon }
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{Cu} \\
\text { ppom }
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{Pb} \\
\mathrm{ppm}
\end{array}
\] \& \[
\begin{array}{r}
2 n \\
\mathrm{ppm}
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{Ag} \\
\mathrm{ppb} \\
\hline
\end{array}
\] \& \[
\underset{\substack{\mathrm{Ni} \\ \mathrm{ppm}}}{ }
\] \& \[
\begin{aligned}
\& \mathrm{Co} \\
\& \mathrm{ppm}
\end{aligned}
\] \& \[
\begin{array}{r}
\mathrm{Mn} \\
\mathrm{ppm}
\end{array}
\] \& \[
\begin{gathered}
\mathrm{Fe} \\
\mathrm{Z} \\
\mathrm{Z}
\end{gathered}
\] \& \[
\begin{array}{r}
\text { As } \\
\text { ppom }
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{U} \\
\mathrm{ppm}
\end{array}
\] \& \begin{tabular}{l}
Th \\
ppm
\end{tabular} \& \[
\begin{array}{r}
\mathrm{Sr} \\
\text { ppm }
\end{array}
\] \& Cd ppm \& \[
\begin{array}{r}
\mathrm{Sb} \\
\mathrm{ppm}
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{Bi} \\
\mathrm{ppm}
\end{array}
\] \& \[
\begin{array}{r}
V \\
p p n
\end{array}
\] \& \[
\begin{gathered}
\mathrm{Ca} \\
\%
\end{gathered}
\] \& \& \[
\begin{array}{r}
\text { La } \\
\text { pppn }
\end{array}
\] \& \& \& \[
\begin{aligned}
\& \mathrm{Ig} \mathrm{Ba} \\
\& 2 \mathrm{ppr}
\end{aligned}
\] \& \[
\begin{array}{r}
\mathrm{Ti} \\
\% \\
\hline
\end{array}
\] \& \[
\begin{array}{r}
\mathrm{B} \\
\mathrm{p} p \mathrm{~m} \\
\hline
\end{array}
\] \& \[
\begin{array}{ll}
B \& A l \\
m \& z \\
\hline
\end{array}
\] \& \[
\begin{gathered}
\mathrm{Na} \\
\%
\end{gathered}
\] \& \[
\begin{aligned}
\& x \\
\& z
\end{aligned}
\] \& \& \& \[
\begin{gathered}
\mathrm{Hg} \\
\mathrm{ppb}
\end{gathered}
\] \& \& Te Ga ppm ppm \& \begin{tabular}{l}
Aut \\
ppb
\end{tabular} \\
\hline GB1E 100N \& 2.5 \& 5.7 \& 9.7 \& 41.1 \& \(<30\) \& 15 \& 6 \& \& 2.16 \& 4.5 \& \(<5\) \& 2 \& 29 \& . 06 \& . 4 \& . 1 \& 38 \& . 20 \& . 016 \& 9 \& 20 \& . 24 \& 4256 \& . 03 \& 1 \& . 83 \& . 01 \& . 08 \& <2 \& < 2 \& 57 \& \& < 22.8 \& 3 \\
\hline GB1E 50N \& 1.1 \& 9.1 \& 9.6 \& 62.1 \& 33 \& 24 \& 9 \& 469 \& 2.66 \& 2.8 \& \(<5\) \& 3 \& 2 \& . 22 \& . 2 \& . 1 \& 46 \& . 38 \& . 077 \& 11 \& 27 \& . 45 \& 5429 \& . 08 \& \% \& 1.51 \& . 01 \& . 08 \& <2 \& <. 2 \& 26 \& \& <. 25.2 \& 2 \\
\hline GBIE ON \& 1.3 \& 7.8 \& 10.0 \& 57.5 \& 67 \& 21 \& 9 \& 340 \& 2.64 \& 2.8 \& 12 \& 4 \& 17 \& . 16 \& . 4 \& .1 \& 44 \& . 21 \& . 883 \& 19 \& 28 \& . 40 \& 0169 \& . 07 \& < \& 31.24 \& . 01 \& . 11 \& <2 \& <. 2 \& 24 \& \& \(<.24 .3\) \& 1 \\
\hline GB2E 500N \& 1.0 \& 6.6 \& 11.1 \& 77.1 \& 38 \& 23 \& 9 \& 224 \& 3.21 \& 3.0 \& <5 \& 2 \& 19 \& . 23 \& . 3 \& .1 \& 57 \& . 21 \& . 138 \& 12 \& 32 \& . 47 \& 7191 \& . 10 \& 4 \& 31.82 \& . 01 \& . 05 \& <2 \& <. 2 \& 23 \& \& <. 26.6 \& 1 \\
\hline GB2E 450N \& 1.1 \& 7.9 \& 10.1 \& 67.5 \& \(<30\) \& 28 \& 10 \& 213 \& 3.12 \& 4.1 \& 15 \& 5 \& 19 \& . 14 \& . 4 \& <. 1 \& 54 \& . 22 \& . 041 \& 13 \& 32 \& . 50 \& 0219 \& . 08 \& , 3 \& 31.78 \& . 01 \& . 06 \& <2 \& < 2 \& 27 \& \& \(<.25 .4\) \& 2 \\
\hline GB2E 400N \& 10 \& 8.5 \& 11.4 \& 69.4 \& \(<30\) \& 29 \& 10 \& 274 \& 3.29 \& 4.2 \& \(<5\) \& 3 \& 19 \& . 20 \& . 4 \& . 1 \& 58 \& . 19 \& 08B \& 13 \& 32 \& . 50 \& 0202 \& . 08 \& <3 \& 31.86 \& . 01 \& . 05 \& \(<2\) \& <. 2 \& 24 \& \& < 25.9 \& 1 \\
\hline GB2E 350N \& 1.1 \& 7.7 \& 11.0 \& 67.7 \& <30 \& 27 \& 9 \& 282 \& 3.16 \& 2.8 \& 6 \& 3 \& 22 \& . 11 \& . 2 \& . 1 \& 55 \& . 26 \& . 044 \& 12 \& 32 \& . 49 \& 9254 \& . 11 \& \(<3\) \& 31.91 \& . 01 \& . 06 \& <2 \& <. 2 \& 15 \& \& <.2 6.9 \& 2 \\
\hline GB2E 300N \& \(\sqrt{.0}\) \& 6.8 \& 9.8 \& 59.7 \& 37 \& 24 \& 9 \& 243 \& 2.97 \& 3.9 \& 9 \& 3 \& 23 \& . 21 \& . 4 \& .1 \& 53 \& . 27 \& . 042 \& 13 \& 31 \& \[
.46
\] \& \[
6268
\] \& . 08 \& \(<3\) \& 31.52 \& . 01 \& . 08 \& <2 \& <. 2 \& <10 \& \& <. 25.0 \& \(<1\) \\
\hline GB2E 250 N \& 1.1 \& 9.3 \& 11.3 \& 83.6 \& 39 \& 22 \& 10 \& 344 \& 2.66 \& 3.6 \& \(<5\) \& 3 \& 20 \& . 23 \& . 4 \& . 3 \& 49 \& . 18 \& . 082 \& 14 \& 30 \& \[
.41
\] \& 1285 \& . 07 \& \(<3\) \& 31.42 \& . 01 \& . 06 \& <2 \& . 2 \& 36 \& \& <. 25.4 \& \(<1\) \\
\hline GB2E 200N \& 17.1 \& 6.6 \& 9.2 \& 63.1 \& \(<30\) \& 20 \& 7 \& 187 \& 2.50 \& 2.4 \& 12 \& 2 \& 24 \& . 11 \& . 2 \& . 1 \& 48 \& . 32 \& . 038 \& 11 \& 28 \& \[
.43
\] \& \[
3204
\] \& . 08 \& <3 \& 31.54 \& . 01 \& . 06 \& <2 \& <. 2 \& <10 \& \& <. 25.8 \& <1 \\
\hline GB2E 150N \& 1.8 \& 8.9 \& 11.1 \& 95.0 \& 42 \& 30 \& 9 \& 249 \& 3.34 \& 5.1 \& < 5 \& 2 \& 23 \& . 25 \& . 5 \& . 1 \& 56 \& . 26 \& . 058 \& 11 \& 30 \& \& 4290 \& . 08 \& \(<3\) \& 31.83 \& . 01 \& . 06 \& <2 \& \& 111 \& \& \(<.26 .8\) \& 2 \\
\hline RE GB2E 150 N \& 2.0 \& 9.9 \& 12.1 \& 92.8 \& 43 \& 28 \& 9 \& 247 \& 3.29 \& 5.5 \& <5 \& 2 \& 22 \& . 28 \& . 5 \& . 1 \& 55 \& . 21 \& . 058 \& 11 \& 29 \& . 43 \& 3283 \& . 08 \& \(<3\) \& \[
31.78
\] \& . 01 \& . 06 \& <2 \& <. 2 \& 33 \& \& \(<.27 .8\) \& 2 \\
\hline G82E 100N \& . 8 \& 7.8 \& 10.6 \& 43.0 \& <30 \& 19 \& 5 \& 118 \& 2.10 \& 2.5 \& 11 \& 3 \& 17 \& . 03 \& . 2 \& . 1 \& 38 \& . 24 \& . 062 \& 13 \& 25 \& . 46 \& 121 \& . 0 \& \(<3\) \& \[
31.16
\] \& . 01 \& . 06 \& <2 \& <. 2 \& 21 \& K. 3 \& \[
<.24 .2
\] \& 2 \\
\hline GB2E 50N \& 1.4 \& 9.1 \& 8.6 \& 45.4 \& <31 \& 20 \& 7 \& 158 \& 2.37 \& 3.8 \& < \& 5 \& 17 \& . 08 \& . 4 \& <. 1 \& 43 \& . 5 \& . 020 \& 12 \& 26 \& . 42 \& 2177 \& . 05 \& \(<3\) \& \[
31.21
\] \& . 01 \& . 04 \& <2 \& <. 2 \& 170 \& \& \[
<.24 .0
\] \& 2 \\
\hline GB2E ON \& 1.1 \& 6.5 \& 9.4 \& 50.4 \& 3 \& 20 \& 8 \& 186 \& 2.58 \& 2.5 \& 5 \& \(\underline{F}\) \& 18 \& . 10 \& . 3 \& . 1 \& 51 \& - \& . 017 \& 11 \& 28 \& \[
.42
\] \& \[
2281
\] \& . 6 \& <3 \& 31.60 \& . 01 \& .04

05 \& <2 \& < 2 \& 14 \& $<3$
$<3$ \& <.25.8 \& 2 <br>
\hline GB3E 500N \& .8

.8 \& 6.4 \& 10.3 \& 47.5 \& $<30$ \& 20 \& 8 \& 167 \& 2.41 \& 2.4 \& 14 \& 5 \& 17 \& .08 \& .3 \& $<.1$ \& 46 \& 20 \& . 023 \& 13 \& 26 \& \[
.39

\] \& \[

39246

\] \& . 16 \& $<3$ \& \[

31.48
\] \& . 01 \& . 05 \& $<2$ \& < 2 \& 19 \& \& <.25.0 \& 1 <br>

\hline GB3E 450N \& 1.2 \& 10.2 \& 11.5 \& 41.7 \& 30 \& 22 \& 6 \& $$
114
$$ \& 2.45 \& 4.2 \& $<5$ \& 3 \& 18 \& . 11 \& . 5 \& <. 1 \& 44 \& 20 \& . 029 \& 14 \& 24 \& \[

.28

\] \& \[

28 \quad 250

\] \& , 03 \& $<3$ \& \[

31.31

\] \& . 01 \& . 04 \& <2 \& <. 2 \& 23 \& \& \[

<.23 .8
\] \& 1 <br>

\hline GB3E 400N \& 2.1 \& 9.9 \& 11.9 \& 68.8 \& 30 \& 24 \& 8 \& 220 \& 2.78 \& 4.5 \& < 5 \& 3 \& 18 \& . 17 \& . 5 \& .1 \& 48 \& -21 \& . 040 \& 12 \& 26 \& $$
.29
$$ \& \[

29344

\] \& 06 \& <3 \& \[

31.56

\] \& . 01 \& . 04 \& 2 \& . 2 \& 36 \& \& \[

<.25 .6
\] \& 1 <br>

\hline GB3E 350n \& . 6 \& 16.3 \& 9.8 \& 41.4 \& k30 \& 25 \& 8 \& 165 \& $$
2.64
$$ \& 3.7 \& 11 \& 5 \& 22 \& . 06 \& . 4 \& <. 1 \& 47 \& . 27 \& . 042 \& 20 \& 30 \& \[

.52

\] \& 2222 \& 06 \& <3 \& 31.43 \& . 01 \& . 05 \& $<2$ \& $<.2$ \& 21 \& \& \[

<.24 .4
\] \& 2 <br>

\hline $$
\text { GB3E } 300 \mathrm{~N}
$$ \& 1.0

8 \& 10.4 \& 8.8 \& 40.3 \& $1<30$ \& 17 \& 5 \& 114 \& 1.71
2.56 \& 2.8 \& 5 \& 3
2 \& 18 \& .07

05 \& . 4 \& 1
$<1$ \& 29 \& . 20 \& .031
030 \& 12 \& 22
28 \& .34

53 \& $\begin{array}{ll}34 & 163 \\ & 197\end{array}$ \& . 03 \& <3 \& | 3 | .84 |
| :--- | :--- |
|  | 1 | \& . 01 \& .04

04 \& <2 \& < 2 \& 36 \& \& $<.22 .7$
$<24.5$ \& 1 <br>

\hline GB3E 2501 \& . 8 \& 8.6 \& 9.0 \& 48.5 \& <30 \& 22 \& 8 \& 210 \& 2.56 \& 2.7 \& $<5$ \& 2 \& 19 \& . 05 \& .2 \& $<.1$ \& 43 \& . 22 \& . 030 \& 12 \& 28 \& . 53 \& [197 \& . 06 \& $<3$ \& | 1.47 |
| :--- | :--- | \& . 01 \& . 04 \& $<2$ \& $<.2$ \& O \& \& $<.24 .5$

$<.23 .6$ \& 1 <br>
\hline GB3E 200N \& . 9 \& 11.9 \& 9.9 \& 45.4 \& 41 \& 25 \& 9 \& 240 \& 2.64 \& 5.0 \& $<5$ \& 5 \& 24 \& . 06 \& . 5 \& . 1 \& 42 \& . 32 \& . 046 \& 14 \& 29 \& . 54 \& 203 \& . 06 \& <3 \& 31.27 \& . 01 \& . 06 \& 2 \& <. 2 \& 58 \& \& $<.23 .6$ \& 4 <br>
\hline GB3E 150N \& 1.0 \& 18.0 \& 9.6 \& 53.0 \& <30 \& 34 \& 10 \& 264 \& 2.71 \& 4.9 \& <5 \& 4 \& 22 \& . 16 \& . 5 \& .1 \& 41 \& . 29 \& . 052 \& 17 \& 35 \& . 59 \& 24 24 \& . 06 \& <3 \& 31.27 \& . 01 \& . 06 \& <2 \& < 2 \& 58 \& \& $<.23 .6$ \& 3 <br>

\hline GB3E 100N \& . 7 \& 8.2 \& 7.5 \& 62.5 \& 46 \& 20 \& 8 \& 292 \& 2.55 \& 2.3 \& 11 \& 4 \& 16 \& .12 \& . 2 \& .1 \& 48 \& . 17 \& . 052 \& 11 \& 28 \& . 40 \& 4020 \& . 07 \& $$
<3
$$ \& \[

31.56

\] \& . 01 \& . 06 \& <2 \& <. 2 \& 14 \& \& \[

<.25 .6
\] \& 1 <br>

\hline $$
\begin{aligned}
& \text { G83E } 50 \mathrm{~N} \\
& \text { CB3E }
\end{aligned}
$$ \& \[

$$
\begin{array}{r}
.8 \\
1 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
6.8 \\
6 \\
\hline
\end{array}
$$

\] \& \& \[

53.7
\] \& $<30$

$<30$ \& 18
26 \& 7
0 \& \& 2.36

2.3 .17 \& \& $$
<5
$$ \& <2 \& \& .07

23 \& . 2 \& \& \& $\begin{array}{r}19 \\ \hline 18\end{array}$ \& .023

. 070 \& 9 \& 24 \& \& $$
43217
$$ \& \[

$$
\begin{array}{r}
.06 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{aligned}
& <3 \\
& <3 \\
& \hline
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& 31.43 \\
& 3.1 .85
\end{aligned}
$$

\] \& . 01 \& . 04 \& <2 \& <. 2 \& \[

$$
\begin{aligned}
& 10 \\
& 24
\end{aligned}
$$

\] \& \& \[

$$
\begin{array}{r}
64.9 \\
\times 260 \\
\hline
\end{array}
$$
\] \& 1 <br>

\hline HA3N OE \& 2.1 \& 10.1 \& 11.5 \& 61.4 \& 33 \& 14 \& 6 \& 332 \& 2.33 \& 7.0 \& 7 \& 3 \& 19 \& . 22 \& 1.0 \& <. 1 \& 37 \& . 16 \& . 035 \& 14 \& 14 \& . 22 \& 22236 \& . 01 \& <3 \& $3.80<$ \& . 01 \& . 07 \& <2 \& < 2 \& <10 \& <. 3 \& $<.23 .0$ \& <1 <br>
\hline RA3N 50E \& 2.0 \& 25.1 \& 9.2 \& 54.3 \& 84 \& 15 \& 7 \& 190 \& 2.19 \& 8.6 \& $<5$ \& 3 \& 16 \& . 08 \& 1.3 \& <. 1 \& 27 \& . 13 \& . 033 \& 15 \& 12 \& . 18 \& 8155 \& . 01 \& <3 \& $3.59<$ \& . 01 \& . 05 \& <2 \& < 2 \& 22 \& \& <.2 1.9 \& , <br>
\hline HA3N 100E \& 1.0 \& 8.7 \& 10.9 \& 120.5 \& 213 \& 28 \& 10 \& 871 \& 3.18 \& 1.7 \& $<5$ \& 2 \& 24 \& . 21 \& . 3 \& . 1 \& 46 \& . 32 \& . 140 \& 14 \& 29 \& . 37 \& 37404 \& . 07 \& <3 \& 31.56 \& . 01 \& . 13 \& <2 \& <. 2 \& 19 \& <. 3 \& $<.26 .3$ \& 1 <br>
\hline HA3N 150E \& . 9 \& 10.3 \& 7.4 \& 63.3 \& 94 \& 24 \& 9 \& 353 \& 2.74 \& 4.2 \& $<5$ \& 3 \& 21 \& . 09 \& . 4 \& .1 \& 45 \& . 27 \& . 093 \& 11 \& 26 \& . 46 \& 46184 \& . 07 \& <3 \& 31.26 \& . 01 \& . 12 \& <2 \& <. 2 \& <10 \& \& <. 24 \& 2 <br>
\hline HA3N 200E \& 1.2 \& 14.1 \& 9.9 \& 47.9 \& 165 \& 19 \& 7 \& 336 \& 1.91 \& 8.5 \& < 5 \& 2 \& 112 \& . 20 \& . 8 \& <. 1 \& 24 \& 4.35 \& . 080 \& 14 \& 14 \& . 57 \& 57189 \& . 01 \& 3 \& $3 \quad .69$ \& . 01 \& . 08 \& $<2$ \& < 2 \& 45 \& \& < 22.0 \& 1 <br>
\hline HA3N 250E \& . 8 \& 5.4 \& 9.3 \& 71.4 \& 117 \& 24 \& 9 \& 850 \& 2.86 \& 1.7 \& $<5$ \& 3 \& 23 \& . 16 \& . 3 \& . 1 \& 41 \& . 27 \& . 127 \& 12 \& 27 \& . 36 \& 36549 \& . 06 \& <3 \& 31.41 \& . 01 \& . 11 \& <2 \& < 2 \& 14 \& <. \& <. 25.1 \& <br>
\hline HA3N 300E \& . 9 \& 8.6 \& 6.6 \& 45.2 \& 48 \& 19 \& 7 \& 284 \& 2.48 \& 3.0 \& 11 \& 2 \& 22 \& . 05 \& . 5 \& <. 1 \& 45 \& . 27 \& . 054 \& 10 \& 24 \& . 45 \& 45306 \& . 04 \& <3 \& 31.21 \& . 01 \& . 06 \& <2 \& < 2 \& <10 \& <. 3 \& $<.23 .9$ \& 4 <br>
\hline HA3N 350 E \& 1.3 \& 17.7 \& 11.5 \& 49.2 \& 94 \& 24 \& 9 \& 272 \& 2.70 \& 7.5 \& < \& 3 \& 21 \& . 04 \& . 7 \& <. 1 \& 37 \& . 26 \& . 081 \& 18 \& 24 \& . 32 \& 2160 \& . 03 \& \& 31.01 \& . 01 \& . 10 \& <2 \& <. 2 \& 19 \& - 4 \& <. 23.3 \& <1 <br>
\hline STANDARD D2/ \& 25.8 \& 131.7 \& 101.0 \& 282.3 \& 1999 \& 32 \& 17 \& 1064 \& 4.62 \& 77.8 \& 14 \& 17 \& 62 \& 2.14 \& 7.6 \& 22.3 \& 77 \& . 71 \& . 109 \& 17 \& 58 \& 1.23 \& 23274 \& . 15 \& 26 \& 62.46 \& . 05 \& . 73 \& 21 \& 2.6 \& 472 \& . 3 \& 2.07 .4 \& 47 <br>
\hline
\end{tabular}

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

## METHOD FOR WET GEOCHEM GOLD ANALYSIS

## Sample Preparation

Soils and sediments are dried( 60 deg. C) and sieve to -80 mesh.
Rocks and cores are crushed and pulverized to -100 mesh.

## Sample digestion

1. 10 g samples in 250 ml beaker, ignite at 600 deg . C for four hours.
2. Add 40 ml of $3: 1: 2$ mixtare $\mathrm{HCL}: \mathrm{HNO} 3: \mathrm{H} 2 \mathrm{O}$.
3. Cover beaker with lids.
4. Boil in hot water bath for one hour.
5. Swirl samples 2 to 3 times within the hour.
6. Cool, add 60 ml of distilled water and settle.
7. Pour 50 ml of leached solution using a graduated cylinder into 100 ml volumetric flask.
8. Add 10 ml of MIBK and 25 ml of distilled water.
9. Shake 3 to 4 mins in shaker.
10. Add additional 25 ml of distilled water to stripe out excess iron.
11. Shake each flask 10 times.
12. Pour MIBK into container for graphite AA finished.











11 N






LEGEND instrument: eda omni plus total field (nt
$\qquad$

| FIGURE GA SCALE $_{1: 5000}^{100} \mathrm{~m}$ |
| :---: |
| TIZARD EXPLORATIONS INC |
| KETCHIKA PROPERTY |
| CLAIM BLOCK H |
| Grid A |
| GEOPHYSICAL SURVEYS |
| Data |
| DONEGAL DEVELOPMENTS LTD |





## LEGEND

INSTRUMENT: EDE OMNI PLUS
ITTER: SEATTLE, Wa (NLK 24.8 IN-PHASE
QUADRATURE
PROFILE SCALE:
$1 \mathrm{~cm}=10$
PROFILE SCALE: $1 \mathrm{~cm}=10 \%$
FIELD STRENGTH----.
PROFILE SCALE: $-1 .--5 \%$
BASE LIVE:
BASE LEVEL: $40 \%$
ANOMALY LOCATION O ANOMALY LOCATION O
CONDUCTOR AXIS


INSTRUmENT: ED A OM I PLUS
instrument: ede omani plus


## 南

11 N



L3N:









L 2 N 0 隹 $=$


11 N


## LEGEND

 pb(ppm) $\quad z_{n}(p p m)$ Ag(pob) Ba(pom)Valuescdetection limit set to 0

$$
\text { Profile Scale: } \overline{\text { Zn }(p \mathrm{~cm})}=50 \mathrm{ppm}
$$

TIZARD EXPLORATIONS INC KETCHIKA PROPERTY CLAIM BLOCK H Grid A



[^0]:    Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

[^1]:    Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

