GEOLOGICAL BRANCH ASSESSMENT REPORT

21,429

PART 1 of 2

RPT 2 of 2

GEOLOGICAL and GEOCHEMICAL REPORT
DUCKLING CREEK PROJECT, BC
DEN 1 to 12, HA 1 to 6, 9 to 11,
GRIZ 1 to 10 MINERAL CLAIMS

Omineca Mining Division, BC

February, 1991

for

GOLDEN RULE RESOURCES LTD.
#410, 1122 - 4th Street SW
Calgary, AB T2R 1M1

by

Michael Fox, Consulting Geologist
Calgary, Alberta

GEOLOGICAL and GEOCHEMICAL REPORT

DUCKLING CREEK PROJECT

DEN 1-12, HA 1-6, 9-11, GRIZ 1-10 CLAIMS

Latitude 55 deg. 58'N
Longitude 125 deg. 21'W

NTS 93N/14W & 94C/3W

Omineca Mining Division, British Columbia

for

GOLDEN RULE RESOURCES LTD.
#410, 1122 - 4TH STREET S.W.
CALGARY, AB T2R 1M1

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TABLE OF CONTENTS

TABLE OF CONTENTS continued

Page #

LIST OF APPENDICES

LIST OF FIGURES

LIST OF MAPS

SUMMARY

During the period August 24 to September 13, 1990 a program of helicopter supported reconnaissance geological mapping, prospecting, and stream silt sampling was carried out at the DEN 1-12, HA 1-6, 9-11, and GRIZ 1-10 claims in the Duckling Creek area of British Columbia. A total of 282 stream silt samples and 73 rock samples were collected and analysed for Au and Ag by Fire Assay and Atomic Absorption; pulps were subsequently analysed for 30 elements (including Au and Ag) by ICP.

The claims cover part of the eastern side of the early Jurassic Hogem batholith and its contact with upper Triassic Takla Group volcanic rocks, as well as an area of younger (Jurassic) syenitic intrusions within the batholith.

Work carried out in 1990 has identified several Cu-in-stream silt geochemical anomalies along sections of Steele Creek, Duckling Creek, and Haha Creek. Two geologically interesting areas have been identified within the Hogem batholith where strong potassic alteration is accompanied by weak porphyry type stringer and disemminated Cu mineralization.

A considerable amount of previous exploration was done in the area in the period 1970-1974 and is summarized in this report.

The property is considered to have good potential for the discovery of porphyry type Cu-Au mineralization similar to that at the nearby Lorraine, Boundary, and Cat Mountain deposits. Further work is recommended.

CERTIFICATE

I, Michael Fox, hereby certify that:

1. I reside at 5008 Varsity Dr., N.W., Calgary, Alberta.

2. I received a B.Sc. in geology from the University of British Columbia in 1974.

3. I have worked in the field of mineral exploration since 1965 and I have practiced my profession as a mineral exploration geologist continuously since 1974.

4. I am a member of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.

5. I am the author of the report entitled "Geological and Geochemical Report "Duckling Project" on the DEN 1 to 12, HA 1 to 6, 9 to 11, and GRIZ 1 to 10 Claims", Omineca Mining Division, British Columbia.

6. This report is based on the references cited in the bibliography, and on field work carried out during the period August 24 to September 13, 1990.

7. I have no interest, direct or indirect, in the securities of Golden Rule Resources Ltd., nor any of its affiliated companies, nor do I expect to receive any.

Michael Fox, P.Geol.

February, 1991

1 INTRODUCTION

1.1 Location and Access

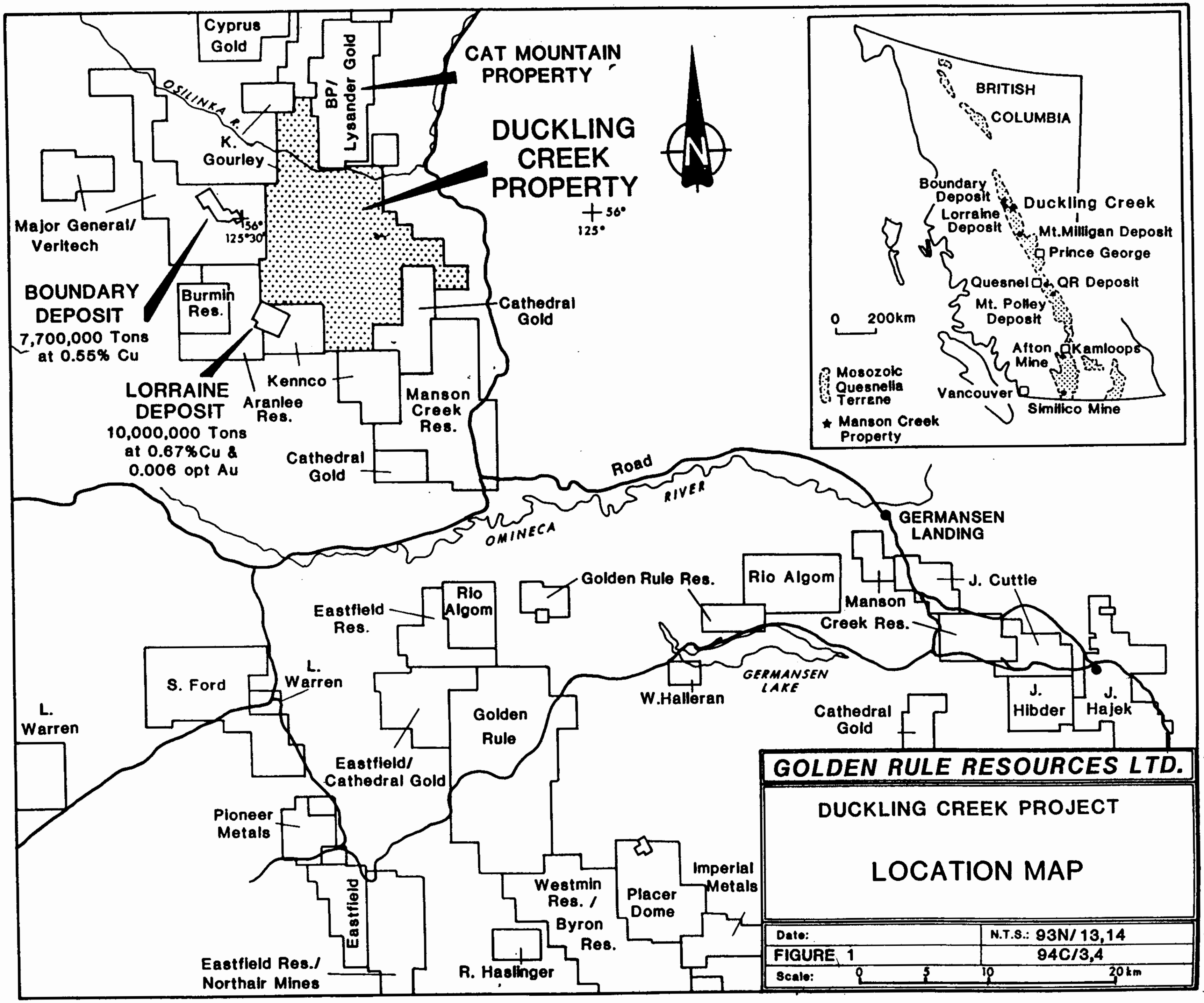
The HA 1 to 6 and 9 to 11, GRIZ 1 to 10 and DEN 1 to 12 claims are situated in N.T.S. map-ares 93-N-14W and 94-C-3W, and cover portions of the headwaters of Duckling Creek, Steele Creek, Haha Creek, and Wasi Creek as well as straddling the Osilinka River (Figure 1). The approximate geographic coordinates of the central part of this large claim block are latitude 55 deg. 58'N and longitude 125 deg. 21'W (Figure 2).

The claims lie approximately 450 km northwest of Prince George, British Columbia, by road. The Omineca mine access road runs within 2 km of the east boundary of the property. A mine access road originally utilized for access to the Lorraine deposit, provides summer road access along the southern edge of the property. Good logging roads along the north and south sides of the Osilinka River cross the northern part of the property. There is no direct road access to the interior part of the property, and helicopter support was used for the geological mapping and geochemical sampling described in this report.

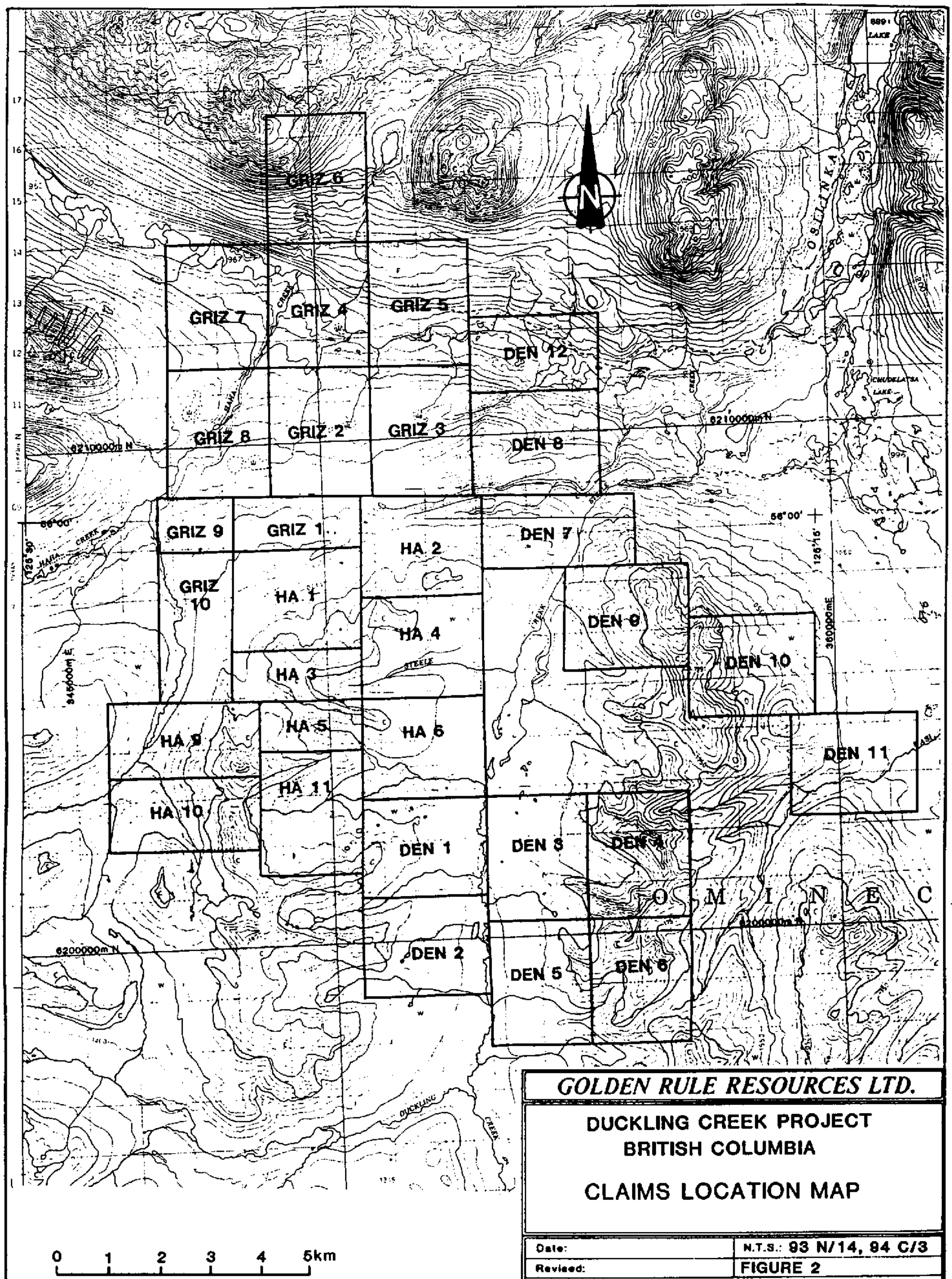
1.2 Claims and Ownership

Pertinent claims data is listed below. The claims are entirely owned by Golden Rule Resources Ltd. of Calgary, Alberta.

Claim Name	Record No.	No. of Units	Date of Staking
HA 1	11880	20	May 8, 1990
HA 2	11881	20	May 9, 1990
HA 3	11882	10	May 6, 1990
HA 4	11883	20	May 8, 1990
HA 5	11884	8	May 6, 1990
HA 6	11885	20	May 8, 1990
HA 9	11886	18	May 7, 1990
HA 10	11887	18	May 7, 1990
HA 11	11888	20	May 7, 1990
GRIZ 1	11875	10	May 9, 1990
GRIZ 2	11876	20	May 9, 1990
GRIZ 3	11877	20	May 9, 1990
GRIZ 4	11878	20	May 10, 1990
GRIZ 5	11879	20	May 10, 1990
GRIZ 6	12235	20	July 3, 1990
GRIZ 7	12236	20	July 3, 1990
GRIZ 8	12237	20	July 3, 1990
GRIZ 9	12238	6	July 5, 1990
GRIZ 10	12239	18	July 5, 1990



Cyprus Gold
BP/ Lysander Gold
CAT MOUNTAIN PROPERTY
DUCKLING CREEK PROPERTY
OSILINKA R.
K. Gourley
Major General/ Veritech
56°
125°30'
56°
125°
BOUNDARY DEPOSIT
7,700,000 Tons at 0.55% Cu
Burmin Res.
Kennco
LORRAINE DEPOSIT
10,000,000 Tons at 0.67%Cu & 0.006 opt Au
Aranlee Res.
Cathedral Gold
Manson Creek Res.
Cathedral Gold
Road
RIVER
OMINECA
GERMANSEN LANDING
Golden Rule Res.
Rio Algom
J. Cuttle
Manson Creek Res.
Eastfield Res.
Rio Algom
L. Warren
S. Ford
L. Warren
GERMANSEN LAKE
W.Halleran
Cathedral Gold
J. Hibder
J. Hajek
Golden Rule
Eastfield/ Cathedral Gold
Pioneer Metals
Eastfield
Westmin Res. / Byron Res.
Placer Dome
Imperial Metals
Eastfield Res./ Northair Mines
R. Haslinger
BRITISH COLUMBIA
Boundary Deposit
Lorraine Deposit
Duckling Creek
Mt.Milligan Deposit
Prince George
Quesnel
QR Deposit
Mt. Polley Deposit
Afton Mine
Kamloops
Vancouver
Similco Mine
0 200km
Mesozoic Quesnella Terrane
Manson Creek Property
GOLDEN RULE RESOURCES LTD.
DUCKLING CREEK PROJECT
LOCATION MAP
Date:
N.T.S.: 93N/ 13,14
94C/3,4
FIGURE 1
Scale: 0 5 10 20 km



GOLDEN RULE RESOURCES LTD.

DUCKLING CREEK PROJECT
BRITISH COLUMBIA

CLAIMS LOCATION MAP

Date:	N.T.S.: 93 N/14, 94 C/3
Revised:	FIGURE 2
Scale: 1:100,000	

Claim Name	Record No.	No. of Units	Date of Staking
DEN 1	12155	20	June 25, 1990
DEN 2	12156	20	June 25, 1990
DEN 3	12157	20	June 24, 1990
DEN 4	12158	20	June 24, 1990
DEN 5	12159	20	June 24, 1990
DEN 6	12160	20	June 24, 1990
DEN 7	12240	18	July 15, 1990
DEN 8	12241	20	July 16, 1990
DEN 9	12161	20	June 28, 1990
DEN 10	12162	20	June 28, 1990
DEN 11	12163	20	June 28, 1990
DEN 12	12242	15	July 16, 1990
		561 (14,025 hectares)	

1.3 Physiography and Glaciation

The property lies within the Omineca Mountains physiographic subdivision of the Interior Plateau. The claims south of the Osilinka River straddle two northerly trending unnamed mountain ranges (included with the Osilinka Ranges) herein referred to as the "East" ridge and "West" ridge, which are drained by the headwaters of Duckling Creek, Steele Creek, Wasi Creek, and an unnamed northerly flowing tributary of Haha Creek. Along the Osilinka River, the claims occupy the broad 1 km to 2 km wide floor of the Osilinka River valley, and the northern extremity of the claim group covers the lower flanks of a rugged northwesterly trending mountain range which is the continuation of the Osilinka Ranges to the north. Steele Creek and the north fork of Duckling Creek flow in a 500 m to 1000 m wide northerly to north-northeasterly trending valley which transects the southern part of the property. Elevations range from a low of about 910 m A.S.L. along the Osilinka River to a high of 1991 m A.S.L. (unnamed peak on the east side of Steele Creek). Steele Creek and the north fork of Duckling Creek at their head waters occupy a valley lying at about 1300 m A.S.L. Ridge crests flanking this valley average about 1850 m A.S.L. Treeline occurs at about 1700 m A.S.L. Mountain slopes are steep and well timbered below treeline, but not precipitous. Steep cliff faces occur at the heads of nearly all the cirque basins.

Evidence of glaciation is widespread. The valleys of Haha Creek and Osilinka River were occupied by major valley glaciers in Pleistocene time and a series of subparallel lateral morainal deposits occur along the south slopes of the Osilinka River valley east of Haha Creek at elevations as high as 1250 m A.S.L. and the valley floor of the Osilinka River is covered with glaciofluvial and recent alluvial deposits. Reworked morainal and stagnant ice deposits lie along the valleys of Steele Creek and the north fork of Duckling Creek. Deeply cut cirque basins are ringed by cliffs and occupied by tarns in many of the side valleys. Arretes and cols are common features of the narrow crested ridges. Both Haha Creek and Steele Creek have incised deep rock-walled canyons where they debouch from their upland valleys onto the upper flanks of the Osilinka River valley.

1.4 Previous Work

The property adjoins, on the north, claims held by Lysander Gold Corp. and BP Resources (Canada) Ltd. who are jointly exploring the Cat Mountain alkaline porphyry hosted Cu-Au deposit. To the west, the property adjoins claims held by Major General Resources Ltd. who are exploring the Boundary porphyry Cu-Au deposit (published reserves of 7.2 million tons grading 0.55% Cu) located approximately 2 km west of the claim group and recently acquired from Umex Inc. The Lorraine porphyry Cu-Au deposit (published reserves of 10 million tons grading 0.7% Cu and 0.10 to 0.34 ppm Au), owned by Kennco Exploration (Western) Ltd. is located only about 1 km south of the southwest corner of the claims, and the Rhonda porphyry Cu-Au occurrence, currently being explored by Cathedral Gold is located close to the south boundary of the claims block.

Extensive areas of the property were previously explored during the porphyry copper "rush" of the late 1960's and early 1970's. This work included reconnaissance and detailed geological mapping and soil sampling on the KIP and STL claims (now lapsed) around the headwaters of Steele Creek (in the area now followed by occupied by the HA 1, 2, 3, 4, 5, 6, 9, 10, and 11, claims) limited amounts of IP surveying in 1973 all carried out by Noranda Exploration Company Ltd. On the (lapsed) PIK claims (in the area now covered by the HA 9 and 10 claims, Noranda also carried out geological mapping and grid controlled soil sampling. The LUC Syndicate, in 1971 and 1972, carried out detailed geological mapping and rock and soil geochemical sampling over the (now lapsed) COL claims, in the area now covered by the HA 10 and 11 claims. This work located numerous small Cu showings and numerous Cu soil geochemical anomalies both in and around a mass of syenite referred to informally as the "Steele Creek Syenite" and grouped with the "Duckling Creek Syenite" (Garnett, 1978). Before any of these mineralized areas reached the status of an advanced exploration project, the world market price of copper declined and exploration of most of the porphyry copper prospects in British Columbia was terminated in 1973.

1.5 1990 Program

Work carried out at the HA, GRIZ, and DEN claims in 1990 consisted of helicopter supported reconnaissance geological mapping (1:10,000 scale) and rock sampling and stream sediment sampling. Mapping was carried out mainly along ridge crests and stream canyons where substantial bedrock exposures exist. Stream sediment sampling was carried out at 200 m to 250 m sample intervals along Steele Creek, the north fork of Duckling Creek, and an unnamed northerly flowing tributary of Haha Creek draining the GRIZ 9 and 10 and HA 9 and 10 claims. A total of 73 rock samples and 252 stream sediment samples were collected and analysed for Au and Ag by Fire Assay and Atomic Absorption. Sample pulps were then submitted for a 30 element scan (including Au and Ag) by ICP analysis.

2 GEOLOGY

2.1 Regional Geology

2.1.1 Intrusive Rocks

The property is located along the eastern side of the central part of the Hogem batholith, a 10 to 30 km wide by 110 km long composite intrusive mass of Mesozoic age, which forms part of the island arc assemblage of volcanic and intrusive rocks known as Quesnel Terrane, or "Quesnellia".

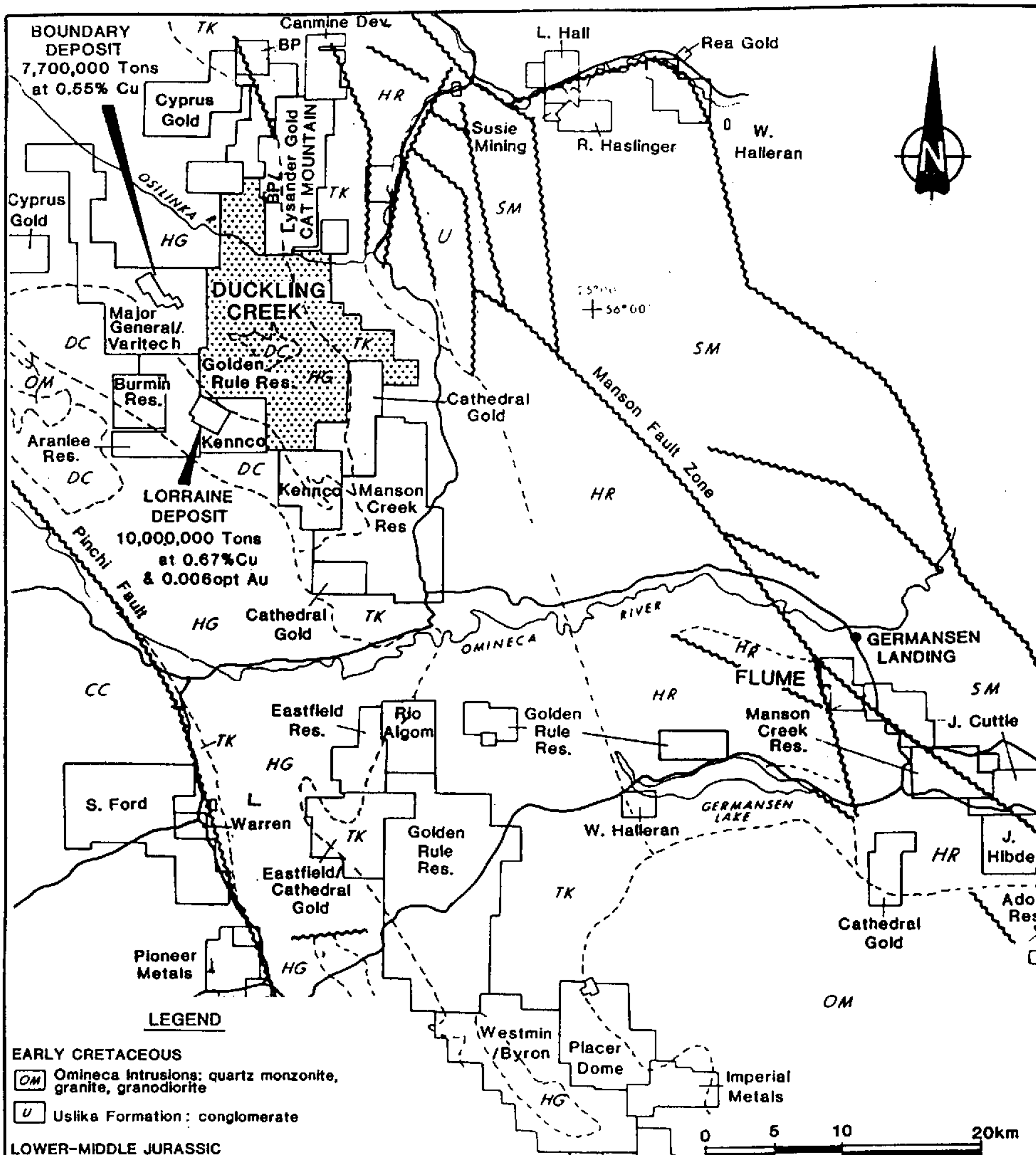
The Hogem batholith can be separated into at least three compositionally distinct phases of different ages (Garnett, 1978). Phase I constitutes the most extensive episode of intrusive emplacement and can be chemically subdivided into the "Hogem Basic Suite" and the "Hogem Granodiorite" and has yielded K/Ar dates ranging from 176 Ma to 212 Ma. Phase II of the batholith is represented by the Duckling Creek (area described in this report) and Chuchi Lake syenite bodies as well as a number of smaller satellitic syenite masses that yield K/Ar dates ranging from 162 Ma to 182 Ma. Field relationships also indicate that Phase II syenites are younger than Phase I rocks. Phase III rocks are volumetrically unimportant within the property area and are known to constitute only a minor part of the Hogem batholith elsewhere. Phase III granitic rocks have yielded K/Ar dates ranging from 108 Ma to 126 Ma.

In very general terms, the Hogem batholith in the property area exhibits quartz deficient border phases ranging in composition from diorite to monzodiorite to quartz monzodiorite, representing the "Hogem Basic Suite". The inner or core area of the batholith is composed principally of granodiorite and quartz monzodiorite and minor zones of tonalite, quartz diorite, quartz monzonite and granite. These inner phases correspond to the "Hogem Granodiorite" subdivision of Phase I. Phase II syenites of widely variable composition and texture intrude the Phase I rocks and large areas of the property are underlain by compositionally complex hybrid phases of "syenitized" diorite and monzonite.

2.1.2 Takla Group Rocks

Takla Group rocks within the 93-N-14 map-area form part of a regionally continuous, 10 to 50 km wide, several hundred kilometer long, lithostratigraphic belt comprised of an assemblage of Upper Triassic to Lower Jurassic volcanic and sedimentary rocks. These rocks are interpreted as a calc-alkaline island arc assemblage, predominantly andesitic in composition, formed at a destructive plate margin. Extensive areas of alkaline shoshonitic volcanic rocks have been recognized elsewhere, within the Takla assemblage (de Rosen Spence and Sinclair, 1988), but no alkaline volcanic equivalents of the Duckling Syenite and/or related syenite bodies have been recognized in the project area (Garnett, 1978, p.32). To the east the Takla Group (i.e. Quesnellia) is separated from platformal sedimentary rocks resting on the North American craton by the rocks of the Slide Mountain terrane, comprised of deep marine sedimentary and volcanic rocks ranging from Devonian to Upper Triassic in age. Takla Group volcanic and sedimentary rocks apparently rest on a basement of Upper Devonian to Triassic island arc clastics, volcanics, and carbonate referred to as the Harper Ranch subterrane (Wheeler et al, 1988). Harper Ranch subterrane and rocks of the Takla Group are collectively referred to in the recent literature (ca 1980 on) as Quesnel Terrane or Quesnellia, as opposed to the usage Quesnel Trough in the earlier literature. Both Quesnellia and Slide Mountain Terrane are considered to be allocthonous with respect to the North American craton.

Takla Group rocks, as described by Armstrong (1965) in the Manson River (93-N) map area, consist of massive, porphyritic, amygdaloidal, and pillowed basaltic and andesitic flows, breccias, tuffs, and agglomerates, with interbedded shale, greywacke, conglomerate, and limestone. The sedimentary rocks constitute only a minor component of the assemblage in the project area and elsewhere. Armstrong (1965) documented thicknesses of at least 10,000 feet for the Takla Group whereas Lord (1948), in the McConnell Creek area (N.T.S. 94-D), observed a thickness of at least 23,000 feet. Roots (1954), in the Aiken Lake map area (N.T.S. 94-C), was unable to accurately define the stratigraphic limits of the group, stating that the "upper limits of the group are... in all places obliterated by (the contacts with) the Hogem batholith..."



LEGEND

EARLY CRETACEOUS

- OM — Omineca Intrusions: quartz monzonite, granite, granodiorite
- U — Uslika Formation: conglomerate

LOWER-MIDDLE JURASSIC

- DC — Duckling Creek syenite complex and related intrusions

UPPER TRIASSIC-LOWER JURASSIC

- HG — Hogem Batholith & Related Intrusions: granodiorite, quartz monzonite, quartz diorite, monzonite

UPPER TRIASSIC

- TK — Takla Group: volcanics and related sediments

PALEOZOIC TO TRIASSIC

- CC — Cache Creek Group: chert, argillaceous quartzite, argillite
- SM — Slide Mountain Group: massive limestone, minor argillite, slate, chert
- HR — Harper Ranch Subterrane: arc clastics, volcanics, carbonate

GOLDEN RULE RESOURCES LTD.

DUCKLING CREEK PROJECT

REGIONAL GEOLOGY

Date: JANUARY 1991	N.T.S.:
Revised:	FIGURE 3
Scale:	

According to Armstrong (1965) the Takla Group in the area around Nation Lakes and north of Germansen Lake consist mainly of massive grey-green, green, black, red, and purplish-red, porphyritic and non-porphyritic flows of andesitic and basaltic composition. North of Omineca River, in the environs of Discovery Creek, tuffs predominate, and are described by Armstrong as ...thinly bedded green and red andesitic types.

2.2 Property Geology

Approximately three-quarters of the property is underlain by various intrusive phases of the Hogem batholith, and the remainder by rocks of the Takla Group. The contact between the batholith and the older volcanic rocks generally trends northwesterly across the property, but is irregular, exhibiting an embayment in the area of the DEN 9 claim, and more of a northerly trend along the east side of the DEN 4 and 6 claims.

In this area, Takla Group rocks consist of an upwards fining (southwesterly) facing sequence of tuffs grading from coarse, dark green, volcanic breccias, comprised of hornblende and feldspar porphyritic breccia fragments, upwards through to banded or thinly laminated very fine-grained green and grey silty tuffs and sulphidic cherts. The sulphidic cherts and sulphide bearing, thinly banded cherty to silty tuffs form a prominent gossanous band, several hundred feet in width striking northwesterly across the DEN 9 and 10 claims. This volcanic cycle extends into and correlates with a similar stratigraphic succession mapped on the adjacent group of claims to the southeast, owned by Manson Creek Resources Ltd. Takla Group rocks have been strongly hornfelsed along the east contact of the Hogem batholith and have been recrystallized and silicified over a broad area. Within the hornfelsed zone, the dominant sulphide is pyrrhotite, and leucocratic tuff bands have, in places, taken on a light mauve color, and mafic tuff bands contain considerable secondary biotite. In places, the Takla Group rocks are intruded by thin feldspar porphyry sills accompanied by narrow zones of silicification and pyritization along the contacts. Feldspar porphyry (granodioritic) and dioritic dykes more obviously related to the main body (Phase I) of the Hogem batholith occur fairly frequently within the hornfelsed zone.

Structurally, Takla Group rocks form a steeply southwestward dipping homocline. No folding was recognized.

Although Takla Group rocks are ubiquitously weakly pyrrhotized in the hornfelsed zone, away from the batholithic contact sulphides generally constitute less than 1% by volume of the rocks, except for the zone of sulphidic cherts and stratigraphically related sulphide bearing silty and cherty tuffs, where sulphide content (pyrrhotite) may be as high as 5% or 6%. Chalcopyrite was observed only very rarely as occasional accessory grains in the volcanic rocks.

Intrusive rocks underlying the property are compositionally diverse and include a variety of hybrid types as well as the granodiorite, diorite, monzodiorite, monzonite, and syenite types identified by Garnett (1978) and others (W. R. Bacon 1972, also T. Pearse, 1971).

Detailed mapping has been previously carried out along the northerly and northeasterly trending ridge (and east trending spurs) underlying the HA 1-6, and 9-11 claims. Traverses carried out in this area in 1990 corroborated the earlier mapping. A number of Cu occurrences were resampled and some additional mapping was carried out at lower elevations, and several new small Cu occurrences were found. Towards the south end of this ridge, near the south boundary of the HA 10 claim, a mass of syenite intrudes older monzonitic rocks. Further north along the ridge (HA 5, 9, 10, and 11 claims), a large area is underlain by relatively fresh diorite and/or monzodiorite. Monzodioritic rocks underlying the horseshoe-shaped ridge surrounding the easterly flowing headwaters of Steele Creek (HA 3 and 5 claims) are intruded by another body of syenite. Along the intrusive contact, extensive areas of the monzonite have been invaded by stringers and dykelets of pinkish-orange syenite to produce a hybrid monzonite. Potassium metasomatism, as evidenced by potassic feldspar alteration, is variable but widespread throughout this zone. Alteration ranges from distinctive pink potassic alteration envelopes along fractures in fairly fresh (Phase I) monzodioritic rocks, to more pervasively metasomatized zones, characterized by a mottled pinkish-green colour, in which the original intrusive textures are still recognizable, but plagioclase feldspars have been altered to potassic feldspars and mafic minerals (mainly pyroxene) have been altered to dark green hornblende. Contacts between pervasively K-metasomatized monzodioritic rocks and fresher monzodioritic rocks are gradational, and a range of less strongly altered varieties are also present.

The dominant rock type in the "West" ridge area is a quartz bearing monzodiorite (adamellite) occurring generally as a fresh, little altered, massive, medium to coarse-grained leucocratic rock. Other related rock types include finer-grained quartz-poor diorites and finer-grained monzonitic types which may exhibit weak to strong crystal alignment - evidently a primary magmatic texture. Variably chloritized hornblende is the dominant mafic mineral, comprising up to 25% or 30% of the rock by volume. Dark greenish-black pyroxene, commonly altered to amphiboles, is also present and comprises 5% - 10% of the rock. Biotite rarely occurs as a primary mineral.

Syenitic rocks exhibit a variety of textures, and field relationships between different phases of syenite, indicate an intrusive history of some complexity. Textures observed in the field include medium-grained equigranular hypidiomorphic types which grade into extremely coarse-grained porphyritic varieties composed mainly of K-feldspar megaphenocrysts. Porphyritic varieties in some places grade into an almost monomineralic K-feldspar pegmatite. In one area of the HA 2 claim, on the lower north-facing mountain slopes, a zone of equigranular medium-grained syenite contains partially resorbed fragments of a finer-grained dark pinkish-red syenite or granite. The abundance of resorbed fragments decreases as the grain size of the syenite increase, as it grades into a megaphenocrystic type. The syenites generally contain less than 5% total mafic minerals (biotite with subordinate pyroxene and hornblende) in contrast to the older Phase I monzodioritic rocks which in places contain in excess of 40% mafic minerals, and might better be classified as monzogabbros.

Reconnaissance (1:10,000 scale) mapping carried out along the north-trending ridge flanking the east side of the valley occupied by Steele Creek and the north fork of Duckling Creek, has identified similar relationships between different intrusive rock types. The dominant rock type is a melanocratic, mafic-rich hypidiomorphic diorite comprised of 40% or greater medium-grained pyroxene crystals and 60% dark grey or purplish colored medium-grained feldspar crystals. Quartz was only rarely observed. This rock type corresponds to the mafic border facies of Phase I of the Hogem batholith as described by Garrett (1978). In places, minor leucocratic bands of diorite are present; contacts with the melanocratic diorite are sharp, but they are not intrusive. Magmatic textures such as weak crystal alignment pass uninterrupted from the melanocratic phase, through the leucocratic bands, and back into the melanocratic phase. The greater abundance of mafic minerals and predominance of dark colored feldspars, indicates a more mafic bulk composition of intrusive rocks in this area than the monzonitic rock types which underlie the ridge bordering the west side of the valley occupied by Steele Creek and the north fork of Duckling Creek. The composition of the mafic diorite gradually changes to a lighter colored more felsic composition, probably monzodiorite, towards the inner part of the Hogem batholith, but there is not any abrupt transition. Over distances in the range of 500 m to 700 m, these compositional variations are apparent.

Along the west-northwesterly trending ridge spur in the north central part of the DEN 4 claim, the monzodioritic Phase I rocks have been intruded by swarms of pinkish syenite dykes and sills. Almost every fracture and joint plane has been filled with syenite. Jointing planes control the emplacement of most of the syenitic dykes and sills. One joint set is northeasterly striking with dips ranging from 10 deg. to 30 deg. to the southeast; another joint set strikes 110 deg. to 140 deg. and dips 70 deg. to 85 deg. to the northeast. Others have attitudes of 140/28NE and 116/84S. Larger sills and dykes of syenite are fine-grained equigranular rocks containing 60% pink potassic feldspar, 35% grey plagioclase feldspar, and 5% fine-grained biotite. Smaller bodies of syenite are aphanitic pink rocks with no visible mafic minerals. Although contact alteration effects are minimal where the syenite bodies intrude the Phase I rocks, the older rocks display colour changes and alteration of pyroxene to biotite over extensive areas, indicating that potassium metasomatism has affected large areas of the older rocks. These metasomatic affects diminish as the frequency of dykes and sills decreases. At the northwest end of the west-northwesterly trending ridge spur, near treeline, large, subangular blocks and breccia fragments of leucocratic monzodioritic rocks are engulfed in fine-grained pink syenite which comprises approximately 60% to 70% of this agmatitic zone. Along the northern boundary of the DEN 4 claim, approximately 600 m to the east of this location, medium-grained to coarse-grained dioritic rocks are cut only infrequently by syenite stringers and dykes or sills.

Approximately 3 km south of this area, along the north boundary of the DEN 6 claim, melanocratic diorite is similarly intruded over an area several hundreds of meters long and wide by innumberable small bodies of syenite. Potassic metasomatism as described above, is pronounced. Near the head of a small basin approximately 750 m east from the legal corner post for the DEN 6 claim, large angular blocks and brecciated fragments of strongly metasomatised diorite are enveloped in pink fine-grained to medium-grained syenite. Overprinting the K-metasomatism, there is a partly exposed alteration zone, perhaps as much as 100 m in diameter, where the intrusive breccia has been intensely bleached and silicified. Dioritic breccia fragments and the syenitic matrix have been equally affected and the outlines of the breccia fragments can only be faintly seen throughout this area of intense alteration.

2.3 Alteration and Mineralization

Apart from the variable effects of potassic metasomatism described above, and the zone of bleaching and silicification, which appears to be an isolated vent where magmatic volatiles escaped, hydrothermal alteration is weak but widespread. The most ubiquitous type consists of late stage quartz stringers, most commonly cutting Phase I rocks. The quartz stringers are mostly widely-spaced and of infrequent occurrence, except for two areas where stringers occur with sufficient density as to suggest that more strongly developed stringer stockworks may be present in the same general area. Quartz stringers are accompanied by pink potassic alteration envelopes 1 to 10 cm in width but where quartz stringers are very narrow "hairline" features, potassic alteration envelopes several centimeters in width may still be present, and superficially resemble syenite stringers. From an exploration viewpoint, it is important to differentiate between syenite stringers which are related to the Phase II magmatic event, and potassic alteration envelopes which are related to a late stage hydrothermal event.

Along the "East" ridge the development of quartz stringers in Phase I rocks is most intense near the contacts of syenite bodies. Quartz stringers were also noted in several areas in syenite, indicating that the hydrothermal event post-dates, or is a late stage event related to the syenitic intrusive episode. Many of the quartz stringers also exhibit an inner alteration selvage of epidote in addition to an outer envelope of pink potassic alteration, but the epidote selvage is often absent. Quartz-epidote-K-feldspar stringers have a dominant southeasterly strike and shallow northeasterly dip (140/30NE) similar to the dominant attitude of the countless small syenite sills which intrude Phase I rocks. An even later hydrothermal event is represented by quartz-epidote +/- magnetite stringers which cross-cut the quartz +/- epidote-K-feldspar stringers and have a dominant orientation of 028/50NW. Chalcopyrite was observed as a minor constituent of both ages of quartz stringers, and in places the stringers are quite strongly mineralized, carrying as much as 4% or 5% chalcopyrite and sometimes traces of pyrite. Stringers are most abundant in the area around the legal corner post for the DEN 3, 4, 5, and 6 claims.

Nowhere along the "East" ridge were quartz-K-feldspar +/- epidote-chalcopyrite stringers observed to be sufficiently closely spaced so as to constitute a definite stockwork zone. However, this type of mineralization occurs over a wide area and indicates that favorable hydrothermal processes have affected the rocks. Collectively, these occurrences constitute a large area of very weak porphyry type mineralization. The two generations of hydrothermal alteration identified so far suggest the presence of two different hydrothermal centers. The exploration objective now is to identify these hydrothermal centers and any related zones where fracturing has been intense enough to permit the development of a porphyry type stockwork and a concentration of disseminated mineralization of economic proportions. The most interesting mineralization found so far is hosted by dioritic Phase I rocks (sample 86258) but the zone of bleaching and intense silicification described has affected both the Phase I rocks and the Phase II syenites, and indicates that the syenites must also be considered as a possible host for porphyry type mineralization (along the "West" ridge the syenites exhibit an intrusive history of some complexity with cross-cutting relationships exhibited by different phases of the syenite, and in places were seen to host quartz-chalcopyrite stringers similar to the stringers mapped along the "East" ridge).

Near the south boundary of the HA 10 claim, at the south end of the "West" ridge, quartz stringers cutting Phase I rocks are quite numerous near the contact of the Phase II syenite body which intrudes Phase I rocks in this area. Most of the stringers carry a little chalcopyrite, although careful prospecting is required to find the sulphides due to the strong near surface leaching and oxidation that has taken place. In the outcrops and talus examined, stringer development was not strong enough to constitute an economic stockwork zone, but there is high potential for a discovery in this area, given the favorable geological environment, the location of the zone only 1.5 km from the Lorraine porphyry deposit, and the "threshold" level of porphyry type mineralization already identified.

3 GEOCHEMISTRY

3.1 Sampling and Analytical Methods

A total of 282 stream silt samples and 73 rock samples were collected during the course of the 1990 reconnaissance work described in this report. Rock samples consisted of "character" chip samples collected along traverses, and stream silt samples were collected at nominal 200 m to 250 m intervals. Stream silt sample material simply consisted of fine, "active" silts that samplers were able to obtain at sample sites. No pre-concentration of sample material was carried out, and moss mattes were not used as a sample medium.

Silt samples were dried and sieved and a -80 mesh fraction was analysed for Au and Ag by Fire Assay/AA techniques by Terramin Research Labs Ltd. of Calgary, Alberta. Sample pulps were shipped to Acme Analytical Laboratories Ltd. of Vancouver, B.C. and analyzed for 30 elements including Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, %Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, %Ca, %P, La, Cr, %Mg, Ba, %Ti, B, %Al, %Na, %K, and W by Induction Coupled Plasma analysis. ICP analysis utilizes a .500 g sample digested with 3 ml of 3-1-2 $HCl-HNO_3-H_2O$ at 95 degrees Celsius for 1 hour, followed by dilution to 10 ml with H_2O. This leach is only partial for Mn, Fe, Sn, Ca, P, La, Cr, Mg, Ba, Ti, B, And W, and the leach is limited for Na, K, and Al. Consequently, ICP analyses for the above elements, particularly K, are not reliable indicators of alteration, particularly in volcanic rocks, where the effects of K alteration might be more subtle than in intrusive rocks.

3.2 Statistical Analysis of Stream Silt Data

For purposes of carrying out a statistical analysis of stream silt geochemical data, results obtained from the 282 samples from the "Duckling Project" claims (this report), were combined with stream silt geochemical analyses of 235 stream silt samples collected from the adjoining Willy 1 to 5, Blondie 1 to 8, Ducky 1 to 3, and BX 1 to 7 claims owned by Manson Creek Resources Ltd.

A cumulative probability graph of Au-in-stream silt values for the 517 sample population is shown in Figure 5 and cumulative probability for Cu-in-stream silt samples is graphed in Figure 7.

The Au-in-stream silt plot indicates two overlapping lognormal populations are present with an anomalous threshold of 15 ppb, with definitely anomalous concentrations (upper population) defined by values of 20 ppb or greater.

The Cu-in-stream silt plot (Figure 7) indicates that two overlapping lognormal populations are present with an anomalous threshold of 90 ppm and definitely anomalous samples (upper population) defined by values of 240 ppm Cu and greater. The upper population is relatively large, constituting about 25% of the total sample population. This could indicate a pronounced lithologic influence on sample results, but more likely reflects the broad zones of weak Cu metallization around the various syenite bodies at the property. Partitioning of the two populations suggests that it would be more appropriate to consider a value of 120 ppm as a definitely anomalous threshold value, rather than 240 ppm; Figures 8 and 9 are cumulative probability graphs for Cu-in-"C" horizon soils (data extracted from B.C. Assessment Report No. 4522) and Cu-in-"B" horizon soils (data from B.C. Assessment Report No. 3610) provided here for comparative purposes.

The cumulative probability graph for Mo-in-stream silts (Figure 6) has a weakly defined lower anomalous threshold of 6 ppm, but no upper threshold value can be interpreted. The graph closely approximates a Gaussian lognormal distribution, with the slight deviation from a straight line plot the result of a slightly skewed distribution. Examination of a histogram for Mo-in-stream silts geochemical data (not presented here) indicates small, discrete upper populations at 11 and 12 ppm, and again at 15 and 16 ppm. For purposes of interpreting this data, 7 ppm is regarded as a lower threshold value, and all values greater than or equal to 11 ppm (the 95th percentile) are considered to be definitely anomalous.

Statistical analyses were not done for Ag- or As-in-stream silts data which showed very little variation, and are therefore considered not to be useful as geochemical indicators of porphyry type mineralization within the project area.

3.3 Results

3.3.1 Steele Creek

A) Western Tributaries A strongly anomalous Cu-in-stream silt trend with values ranging up to 347 ppm Cu occurs along a 2 km length on the easterly flowing branch of the headwaters of Steele Creek (HA 4 claim). Reconnaissance soil sampling carried out at the head of the basin returned high Cu values ranging up to 4000 ppm Cu (B.C. Assessment Report No. 3341). Scattered, minor chalcopyrite occurrences are present on the ridges surrounding the stream basin. There are no accompanying anomalous Au-in-stream silt values, but there is an accompnaying weakly anomalous Mo-in-stream silt trend at the upper end of the Cu-in-stream silt anomalous trend.

B) Eastern Tributaries Two fair-sized streams, each about 4 km in length, enter Steele Creek from the east. The more northerly of these two tributaries crosses the DEN 9 claim. No significantly anomalous results were returned from stream silt samples collected along this drainage.

3.3.2 North Fork of Duckling Creek - Western Tributaries

Immediately south of the easterly flowing section of Steele Creek, described above (see 3.3.1A), are three easterly flowing tributaries of the north fork of Duckling Creek.

A) North Tributary The more northerly of these three tributaries splits into a north fork and a south fork approximately 1500 m upstream from the point where the tributary flows into the main north-south trending valley of the north fork of Duckling creek.

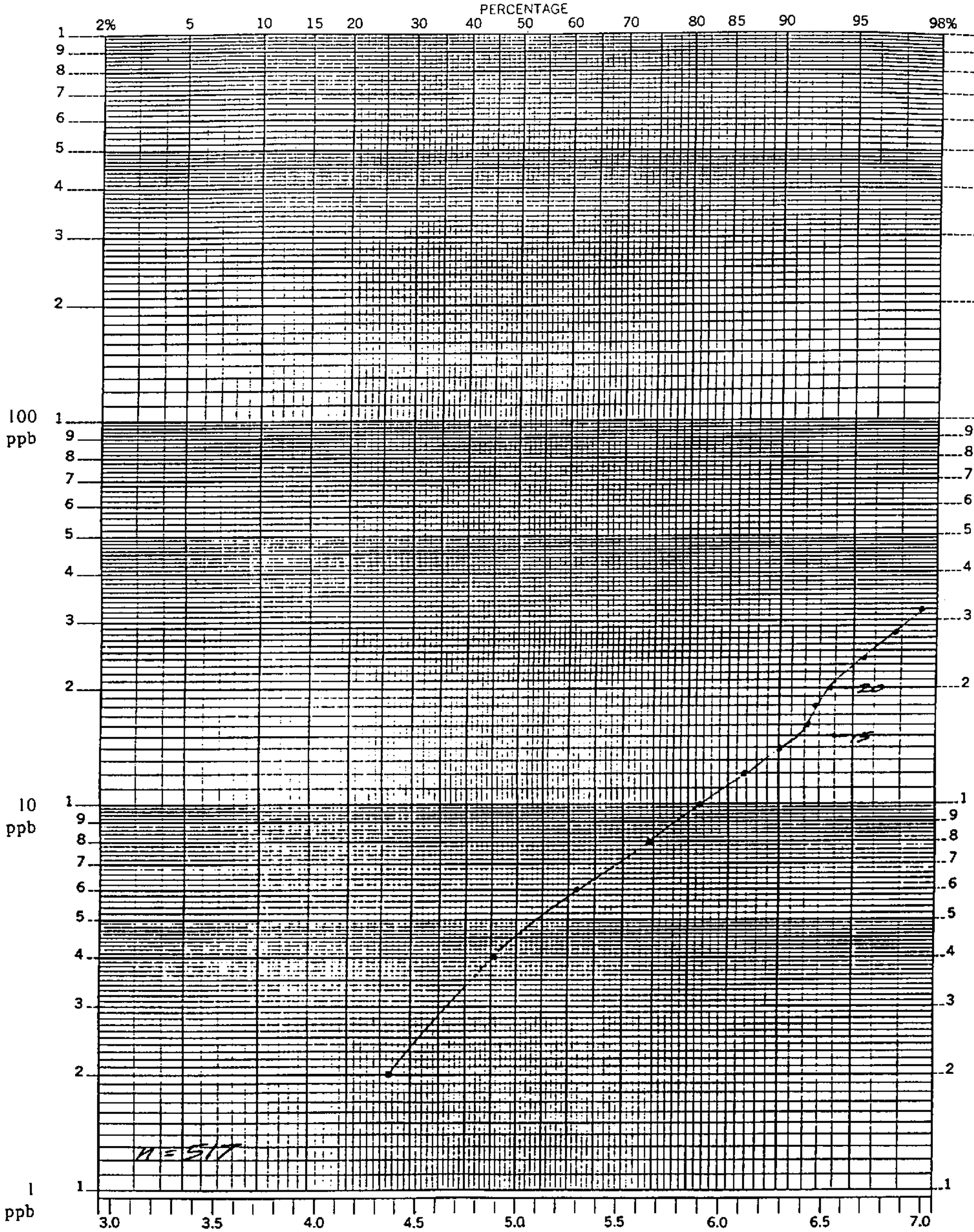
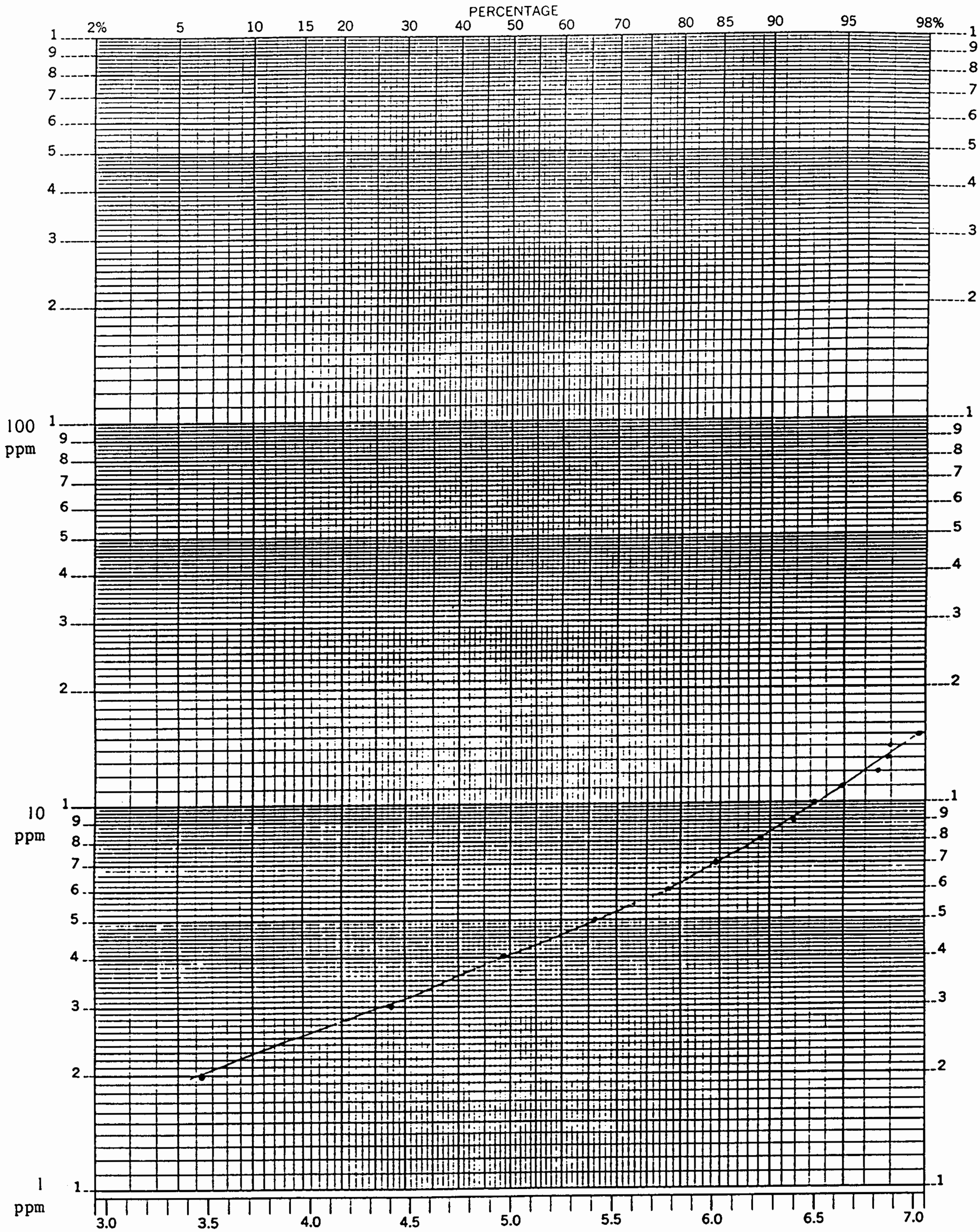


Figure 4

CUMULATIVE PROBABILITY GRAPH

Au-in-Stream Silts Project BC-38/42 (1990)

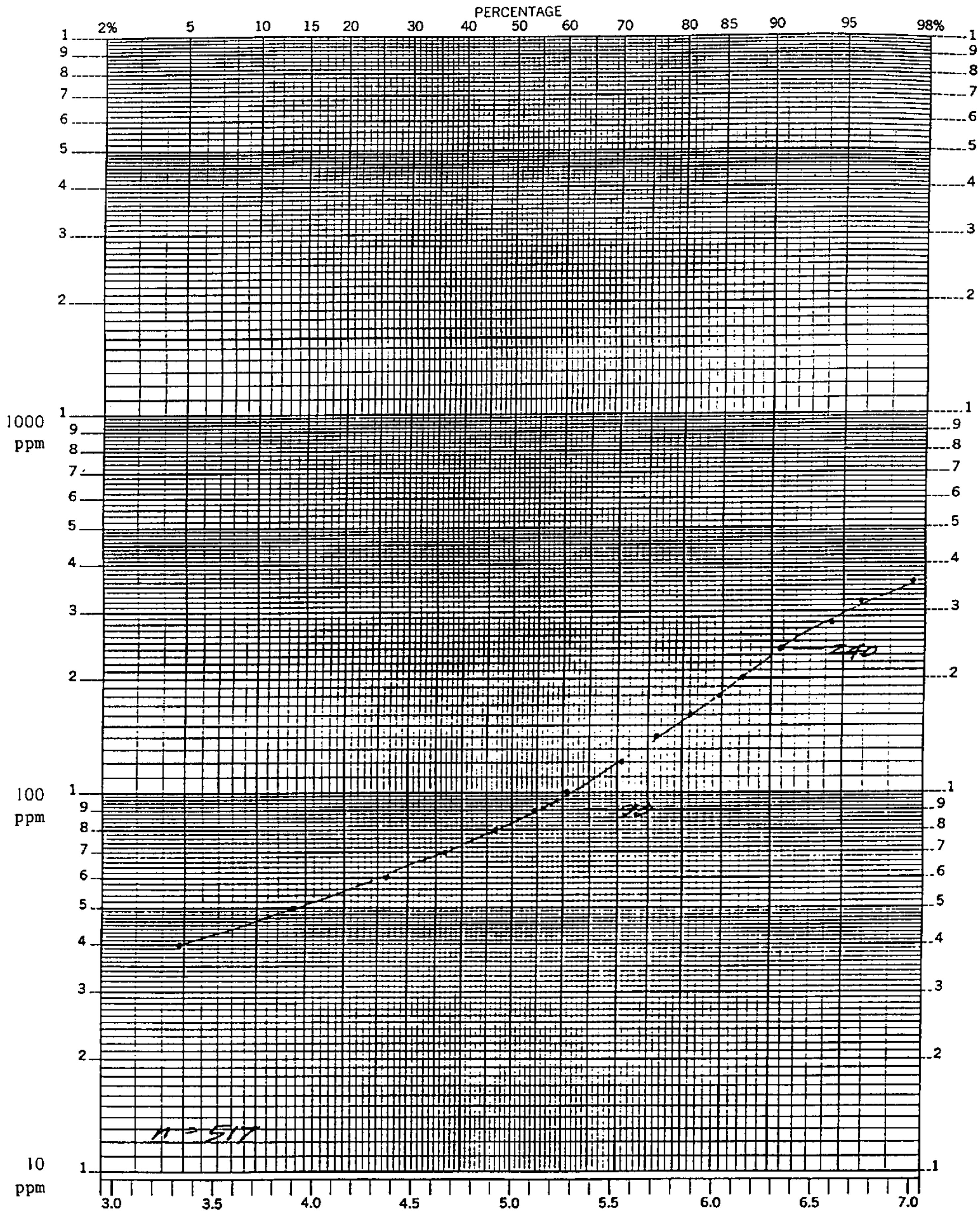


CUMULATIVE PROBABILITY GRAPH

Figure 5

Mo-in-Stream Silts

Project BC-38/42 (1990)

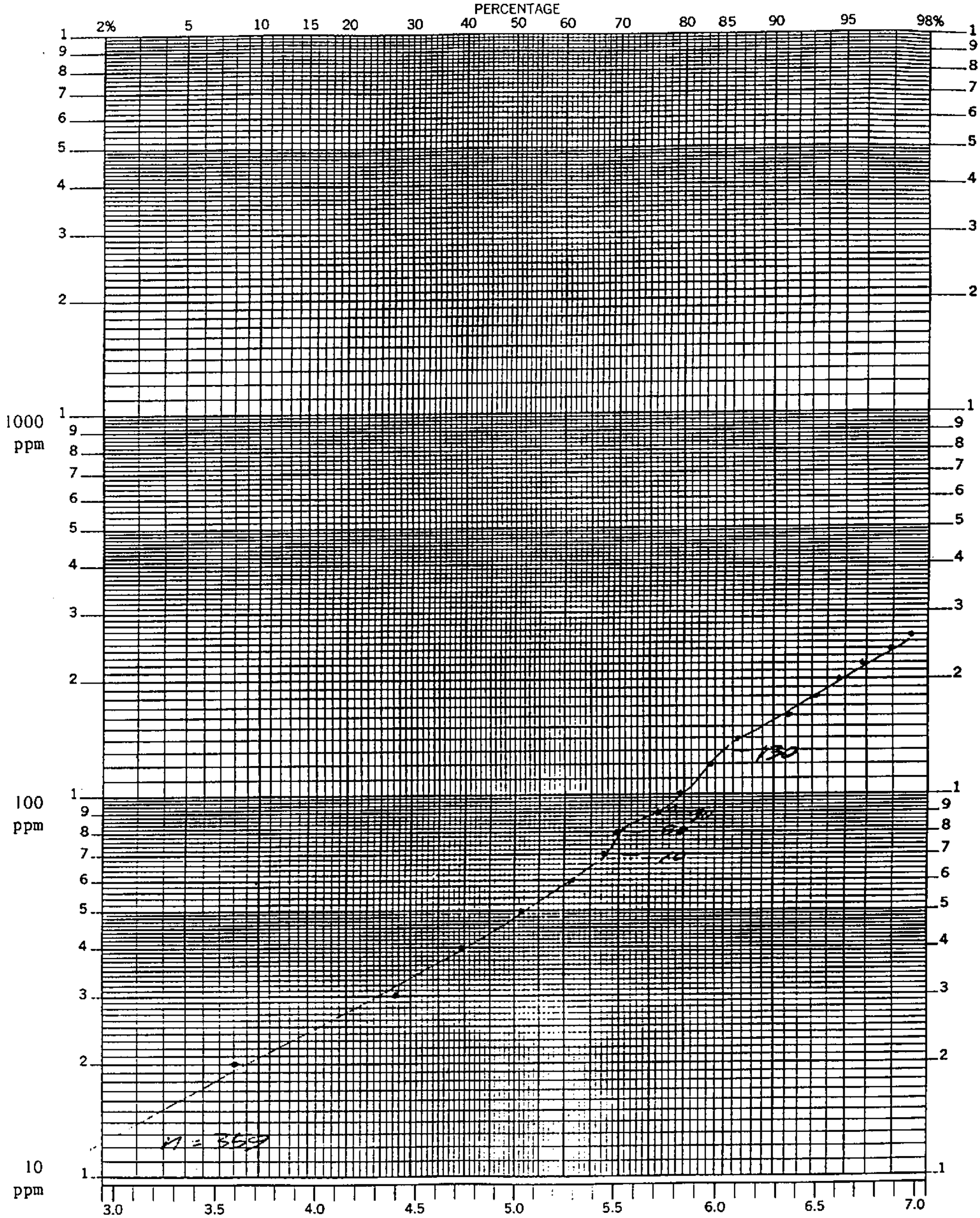


CUMULATIVE PROBABILITY GRAPH

Figure 6

Cu-In-Stream Silts

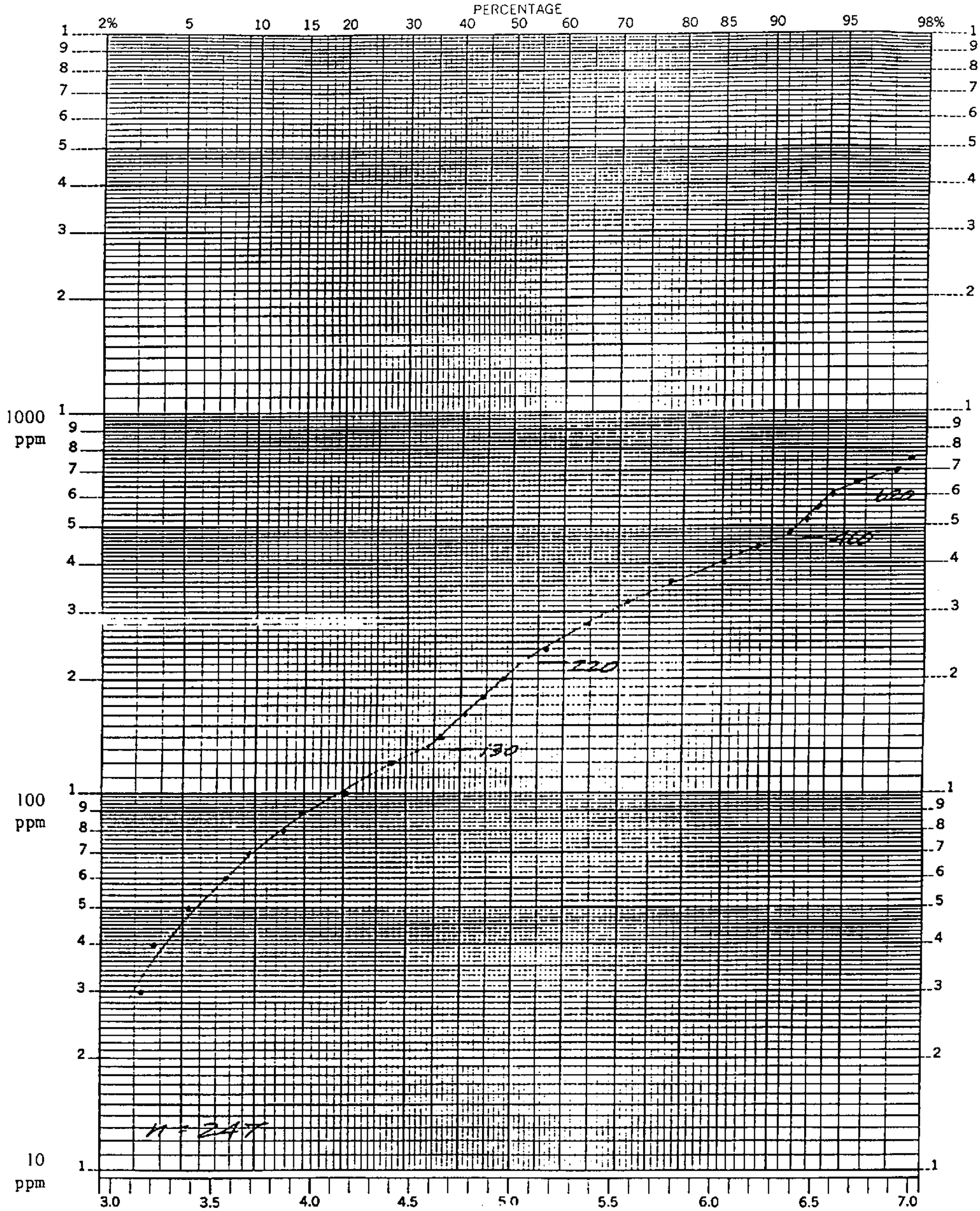
Project BC-38/42 (1990)



CUMULATIVE PROBABILITY GRAPH

Figure 7

Cu-in-"B" Horizon Soils
(Data extracted from BC Assessment Report No.3610)



CUMULATIVE PROBABILITY GRAPH

Figure 8

Cu-in-"C" Horizon Soils

(Data extracted from BC Assessment Report No.4522)

a) <u>North Fork of North Tributary</u> The north fork of the "north" tributary returned anomalous Cu-in-stream silt values along its entire length (HA 5 and 6 claims). There is no accompanying anomalous Au-in-stream silts trend except for one anomalous Au-in-stream silt value of 60 ppb (sample JO-169). Cu-in-stream silt values range up to 447 ppm Cu, and are accompanied by a corresponding but weakly anomalous Mo-in-stream silts trend, except at the very upper end of the basin where two strongly anomalous values 15 ppm and 18 ppm Mo were reported (sample numbers JO-154 and JO-155). Reconnaissance soil sampling carried out at the head of this basin (B.C. Assessment Report NO. 3341) returned anomalous Cu-in-soil values of up to 370 ppm Cu and several scattered minor chalcopyrite occurrences are present along the ridges surrounding the basin.

b) <u>South Fork of North Tributary</u> The south fork of the north tributary (of the "north fork" of Duckling Creek) only displays a short, 1000 m long anomalous Cu-in-stream silt trend at the extreme upper end of the drainage (sample numbers JO-136 to JO-140). This anomalous trend is much weaker than that along the north fork and consists mainly of several above threshold Cu values and only two definitely anomalous Cu values with the highest value being 241 ppm Cu. A well-defined moderately to strongly anomalous (9 ppm to 38 ppm) Mo-in-stream silts anomalous trend occurs along the upper 2 km of the south fork, in marked contrast to metallization patterns along the headwaters of Steele Creek and the north fork of this tributary of Duckling Creek (both described above). The anomalous Cu- and Mo-in-stream silt values occur primarily in the southwest quadrant of the HA 11 claim, where detailed soil sampling carried out in the early 1970's outlined several coincident, strongly anomalous Cu- and Mo-in-soils zones. On the ridge along the west side of this basin, Phase I monzodioritic rocks of the Hogem batholith are intruded by a large Phase II syenitic mass. Phase I rocks, in places, exhibit strong potassic alteration and host several zones of quartz-chalcopyrite stringers. Although no molybdenum bearing minerals have been found in outcrop, the coincidence of the Mo-in-soils and Mo-in-stream silts anomalies strongly suggests the presence of molybdenum mineralization.

Several moderately anomalous Au-in-stream silt values accompany the anomalous Mo-in-stream silt values of the upper end of the stream.

B) South Tributaries No significant anomalous values were reported from either of the two southern tributaries of the north fork of Duckling Creek, which flow into the north fork from the west.

3.3.3 North Fork of Duckling Creek - Eastern Tributaries

Three main easterly flowing tributaries, each about 3 km in length, drain prominent cirque basins at the DEN 3, 4, 5, and 6 claims, and flow into the north fork of Duckling Creek from the east. Only the northern and central tributaries were sampled as most of the length of the southern tributary lies outside of the claims area owned by Golden Rule Resources Ltd.

A) Northern Tributary Along the upper two kilometers of the northern tributary a moderately to strongly anomalous Cu-in-stream silts trend is present (sample numbers RG-128 to 137) with values ranging up to 258 ppm Cu. There are no accompanying anomalous Au- or Mo-in-stream silt values. The north and south walls of the cirque basin are underlain by strong potassium metasomatized Phase I monzodioritic border phases of the Hogem batholith intruded by countless small sills, dykes, and irregular masses of Phase II syenitic rocks. Reconnaissance geological mapping carried out in 1990 along the ridge crests located numerous small quartz-K-feldspar stringers, at widely spaced intervals, many of them carrying some chalcopyrite. Collectively, these stringers constitute a large, weakly developed zone of porphyry type Cu mineralization. This area is considered to have excellent potential for the discovery of a significant zone of porphyry copper-gold mineralization.

Approximately 2 km downstream on this tributary, a series of moderately to very strongly anomalous Cu-in-stream silt values occur along a 600 m long section of the drainage where it makes its final descent to the valley floor of the main branch of the north fork of Duckling Creek. Values range from 131 ppm to 569 ppm Cu, and the latter is accompanied by anomalous Mo and Au values of 13 ppm and 24 ppb, respectively. These results are probably related to a zone of mineralization in near surface bedrock underlying the steep slopes along the east side of the main valley.

Most of the area around the northern tributary was soil sampled at 200′ x 400′ sample intervals by Acano Explorations Ltd. in the early 1970′s (B.C. Assessment Report No. 3860). A number of discontinuous, "spotty" looking anomalous Cu-in-soils zones were delineated on both sides of the stream drainage. The results of this survey should be re-evaluated in conjunction with a detailed terrain analysis, since much of the central part of the stream basin is probably underlain by thick morainal or glaciofluvial deposits derived from the large 2 km diameter composite cirque at the head of the drainage.

B) <u>Central Tributary</u> Strongly anomalous Cu-in-stream silt values ranging from 176 ppm to 573 ppm Cu occur along the upper 2 km of the central tributary, and are accompanied by elevated Mo-in-stream silt values ranging from 7 ppm to 20 ppm Mo. Au-in-stream silt values are low except for one anomalous value of 52 ppb Au (sample number 158) which accompanies an anomalous Mo-in-stream silt value of 15 ppm and an anomalous Cu-in-stream silt value of 243 ppm.

Geological conditions are similar to those prevailing along the "north" tributary, with ridges surrounding the basin being underlain by strong potassium metasomatized Phase I monzodioritic border phases of the Hogem batholith, intruded by innumerable small sills, dykes, and irregular masses of Phase II syenitic rocks. As is the case for the basin to the north, rocks outcropping in the ridges surrounding the "central" tributary host numerous, small, widely spaced quartz-K-feldspar +/- chalcopyrite stringers which, collectively, constitute a large area of weak porphyry type mineralization. Three generations of hydrothermal alteration (two of them accompanied by chalcopyrite mineralization) have been recognized in the rocks surrounding the basin, and an exotic intrusive breccia outcrops near the head of the basin, upstream from the highest stream silt sample site (sample number RG-149).

All but the uppermost portions of the "central" tributary drainage basin were soil sampled at 200′ x 400′ sample intervals during the early 1970′s (B.C. Assessment Report No. 3860). Strong Cu-in-soils anomalies were delineated over an extensive area measuring approximately 1500 m by 200 m, with Cu-in-soils values ranging up to 1500 ppm. The strongest part of the broad Cu-in-soils anomaly measures approximately 200 m by 100 m and is open to the southeast.

This coincidence of strongly anomalous stream silt and soil geochemical response, plus the widespread occurence of weak "porphyry type" quartz-chalcopyrite stringers, and the complexity of intrusive relationships (hybrid zones, intrusive breccias, a hydrothermal vent superimposed on the intrusive breccia) make this area a prime exploration target. The 1972 soil sample locations should be relocated in the field, and detailed geological mapping (to more closely study intrusive and hydrothermal relationships) and induced polarization surveying should be carried out over the area.

3.3.4 North Fork of Duckling Creek - Main Branch

Throughout most of its length the main branch of the north fork of Duckling Creek occupies a wide north-south oriented valley filled with a considerable thickness of morainal, glaciofluvial, and recent alluvial deposits. No significantly anomalous Au-in-stream silt geochemical results were returned from samples collected along this drainage, with the sole exception of one anomalous Au-in-stream silt value of 148 ppb (sample number KD-41). Cu and Mo response is quite subdued, as might be expected due to the overburden conditions along the valley. A weakly anomalous, coincident Cu- and Mo-in-stream silts trend is present along the east-central boundary of the DEN 1 claim (sample numbers DK-29 to 33). These anomalous metal concentrations are probably related to a shallow bedrock source along the steep, east wall of the valley.

3.3.5 Tributaries of Haha Creek

The HA 9 and 10 and GRIZ 10 claims are transected by a northerly flowing tributary of Haha Creek, which is the first major tributary to enter Haha Creek from the southeast, about 5 1/2 km above the mouth of Haha Creek. This tributary forks near the south boundary of the HA 9 claim and its headwaters originate in a composite cirque basin on the north side of the ridge in which the Lorraine deposit occurs. Moderately anomalous Cu values occur along this drainage and are probably related to mineralization at the Lorraine deposit.

3.4 Results of Earlier Soil Sampling Programs

The present property boundaries encompass 7 different soil sample "grids" which were chained and sampled by other operators during the period 1971 to 1973 on claim groups that have now lapsed. These grids consist of:

3.4.1 HA 1, 2 and DEN 7 Claims

Assessment data was filed by Noranda (B.C. Assessment Report No. 3341) for reconnaissance soil geochemical lines spaced at 1500' intervals and sampled at 200' intervals on the STL claims in 1971, over an area now covered by the HA 1, 2 and DEN 7 claims. Although the wide line spacing precludes contouring the data, a broad zone of anomalous Cu-in-soil values occurs along the east side of the HA 2 claim, with numerous other anomalous Cu-in-soil values occurring in the central part of the claim.

3.4.2 HA 3 and 4 Claims

Reconnaissance type soil sampling was carried out over the KIP claims by Noranda in 1971 (B.C. Assessment Report No. 3341) over an area approximately 400 m by 1500 m at the headwaters of Steele Creek. Soil samples were collected at 200' intervals along 4 lines (2 lines on each side of Steele Creek) spaced 400' apart. A total of 93 samples were collected and analysed for Cu, Zn, and Mo. Almost all of these samples were anomalous in Cu with only three samples returning values less than 100 ppm Cu, and the anomalous samples averaging approximately 400 ppm Cu, with values ranging as high as 4000 ppm Cu. Mo-in-soils values were very low in contrast to the large percentage of strongly anomalous Cu-in-soil values, with only one definitely anomalous Mo-in-soil value of 22 ppm reported. There were no anomalous Zn values.

3.4.3 HA 5, 6, and 11 Claims

A similar, small, reconnaissance soil sampling program was carried out over an area 300 m by 1500 m at the headwaters of the north fork of Duckling Creek in the next basin to the south of area (3.4.2) described above. A total of 54 samples were collected from the KIP claims (now lapsed) by Noranda (B.C. Assessment Report No. 3341) in an area now covered by the eastern half of the HA 5 claim, the west central boundary area of the HA 6 claim, and the extreme northeast corner of the HA 11 claim. The majority of samples collected along the north side of the basin were anomalous in Cu, averaging approximately 160 ppm Cu-in-soil. Cu-in-soils values display a similar distribution of anomalous values along the line on the south side of the basin except that there are fewer anomalous results and the values average approximately 130 ppm Cu-in-soil.

3.4.4 HA 11 Claim

A more systematic program of soil sampling was carried out at the COL claims (now lapsed) over an area 1500 m wide by 2000 m long, by the LUC Syndicate in 1971; this grid area is now covered by the southern two-thirds of the HA 11 claim. This original geochemical data was not contoured (as submitted in B.C. Assessment Report No. 3610), but has been contoured for purposes of this evaluation. A series of northeasterly trending anomalous zones have been outlined, ranging in width from 50 m to 300 m and up to 1000 m in length. Cu-in-soils values range up to 540 ppm Cu, but average an estimated 175 ppm Cu within the anomalous zones. In contrast to the Cu-in-soils geochemical anomalies described in areas 3.4.1 and 3.4.2 above, the area 3.4.4 Cu-in-soils geochemical anomalies are accompanied by sympathetic anomalous Mo-in-soils trends. The distribution of anomalous Mo-in-soils values is slightly different to, but mainly strongly coincident with anomalous Cu-in-soils values. Mo-in-soils values range up to 120 ppm, but average about 20 ppm within the anomalous zones. An estimated 95% of the soil samples collected from this grid area consisted of brownish-orange "B" horizon soils, so it seems quite improbable that the high Cu and Mo values could be related to high organic content in the soils. Anomalous Mo- and Cu-in-stream silt values provide a corroboration of the soils anomalies in an entirely different geochemical medium. The broad Cu and Mo anomalies present an attractive exploration target, given the "threshold" level of porphyry type mineralization in monzonitic rocks exposed along the ridge crest immediately to the west as well as the proximity of the anomalous zones to the contact of a major syenitic intrusion (probably the same syenite body that hosts mineralization at the nearby Lorraine deposit). The geochemical anomalies should be surveyed by induced polarization methods to try and define any underlying porphyry type disseminated Cu and Mo mineralization.

3.4.5 HA 10 Claim

Systematic, grid-controlled soil geochemical sampling was carried out over a 1000 m by 2500 m area over the PIK claims (now lapsed) by Noranda in 1972 in an area now covered by the west half of the HA 10 claim. Both "B" and "C" soil horizons were sampled and analysed, but only "C" horizon analyses were reported (B.C. Assessment Report NO. 4522). Data presented in the above assessment report was contoured at 249 ppm Cu, 357 ppm Cu, and 501 ppm Cu. Two sizeable anomalous zones were defined by contouring at these values. A cumulative probability graph analysis of this data, presented in this report indicates two geochemical populations are present with threshold/anomalous values of 120/280 and 440/650 ppm Cu, respectively. The upper population is most likely directly related to underlying copper mineralization.

One northwesterly trending area, approximately 800 m wide by 1500 m long, open in both directions along trend, extends across the extreme southwest corner of the HA 10 claim onto adjoining claims to the south. The trend of this zone is more or less directly towards the Lorraine deposit, located less than 1000 m to the southeast, off the southeast end of the anomalous zone. Geological mapping along the low ridge occupying the southeast part of the grid area suggests that the large Cu-in-soils anomaly is most likely underlain by a mass of syenite that is probably part of the same body of syenite which hosts the Lorraine deposit.

A second fairly extensive area of anomalous Cu-in-"C" horizon soils values occupies the northeast corner of the 1972 grid area but is only partially delineated by the sampling carried out at that time. It covers an area approximately 500 m wide by 1000 m long, open to the east (across trend) and open to the northwest and southeast along the anomalous trend. This anomalous zone is probably underlain by Phase I monzodioritic rocks of the Hogem batholith, in close proximity to the contact with the younger syenitic body described above. In terms of this probable spatial relationship to the syenite contact, the anomalous zone would be positioned similarly to the 200' wide GK zone of porphyry type copper mineralization exposed along the ridge about 1200 m to the southeast (see section describing "Alteration and Mineralization").

Smaller Mo-in-soils ("C" horizon) geochemical anomalies accompany the most strongly anomalous sections of the Cu-in-soils ("C" horizon) anomalies described above but are considerably smaller in areal extent.

Geochemical sampling carried out by Stellac Explorations Ltd. (B.C. Assessment Report No. 5649) on the JoAnn claims (staked to cover the same area as the PIK claims after they lapsed) expanded the above described Cu-in-soils anomalies to the north and west.

3.4.6 DEN 2 and 5 Claims

A large grid-area measuring 2000 m wide by 5000 m long, oriented northwest-southeast, was positioned over the TED claims (now lapsed) and soil sampled by Tupco Mines Ltd. in 1972 (B.C. Assessment Report No. 4151). The grid occupies an area now covered by all but the northeast corner of the DEN 2 claim, and extends northwestwards onto claims adjoining the DEN 1 and 2 claims on the west. To the southeast the grid adjoins another smaller grid-area measuring 1000 m wide by 1800 m long, oriented northwest-southeast, put in place by Tyee Lake Resources Ltd. to provide ground control for soil geochemical sampling, geological mapping and induced polarization surveying done in the vicinity of the Rhonda porphyry copper prospect, located close to the south boundary of the DEN 5 and 6 claims (only the I.P. survey results are reported in the assessment literature - B.C. Assessment Report No. 3861).

On the "Tupco" grid a large number of narrow, elongate zones of anomalous Cu-in-soils values were identified at the west end of the grid. Several of these anomalous zones show a good spatial correlation with zones of Cu mineralization exposed along the crest of the ridge immediately west of the west boundary of the DEN 2 claim. A number of similar zones are scattered across the DEN 2 claim, but geochemical response appears to be attenuated due to deeper overburden. Cu-in-soils anomalies are more numerous and stronger over a broad area approximately 1500 m by 1500 m at the southeast end of the grid where it adjoins the "Rhonda" grid. The stronger response is probably partly due to the steeper topography and shallower overburden in this area (east side of the north fork of Duckling Creek).

3.4.7 DEN 3, 4, and 5 Claims

Immediately north of the "Tupco" grid (see 6 above), another extensive grid area, measuring approximately 2500 m by 2500 m was positioned over the FOX claims (now lapsed) by Acano Mines Ltd. in 1972 (B.C. Assessment Report No. 3860), on the east side of the north fork of Duckling Creek. Soil sampling was carried out at 400′ line spacings and 100′ sample intervals. The grid covers almost the entire area of the DEN 3 claim, as well as small areas of the DEN 4 and DEN 5 claims on the east and south, respectively, and small areas of the DEN 1 and 2 claims to the west.

Anomalous Cu-in-soils geochemical response is particularly strong in the southeast corner of the DEN 3 claim, where high Cu-in-soil values occur in a northwesterly trending zone approximately 400 m wide by 1000 m long. This anomalous zone occurs along trend and downslope from an unusual intrusive breccia (see section on Property Geology) which overprints the K metasomatism of Phase I rocks in this area. Quartz-chalcopyrite stringers cutting Phase I rocks were noted in outcrop and as float at several locations near the southeast corner of the DEN 3 claim, but only as widely spaced occurrences. The coincidence in this area of three generations of hydrothermal alteration, widespread potassic alteration, and numerous small Cu occurrences, make this area a priority target for further exploration.

4 GEOPHYSICS

Limited amounts of induced polarization geophysical surveying were carried out by previous property owners in the vicinity of the headwaters of Steele Creek over an area covered by the HA 2 and 4 claims (B.C. Assessment Report No. 4476) and also on the "Tupco" grid (B.C. Assessment Report No. 4152) over an area covered by the DEN 2 claim. The results of these surveys are being re-evaluated and will be reported on, in a separate report.

Also in conjunction with geological and geochemical work carried out at the claims by Golden Rule Resources Ltd. in 1990 and described in this report, detailed low-level, airborne magnetic and electromagnetic surveying was carried out by Aerodat Ltd. over the entire claim group. The results of the 1990 geophysical surveying will be reported on separately.

5 CONCLUSIONS AND RECOMMENDATIONS

The area encompassed by the DEN, HA, and GRIZ claims covers an area of the Hogem batholith with excellent potential for the discovery of porphyry copper-gold deposits. Three porphyry-copper gold deposits, at an advanced stage of exploration, with drill indicated tonnages, occur in close proximity to the claims boundaries. These are the Lorraine, the Boundary, and the Cat Mountain deposits. Although bedrock exposures only constitute 3% to 4% of the total property area, there are numerous indications in the rocks, including widespread hydrothermal alteration and weak copper mineralization, of a favorable porphyry environment.

The intrusion of Phase II syenitic rocks into Phase I monzodioritic rocks of the Hogem batholith was an important mineralizing event, with widespread potassic alteration and weak Cu mineralization occurring in Phase I rocks proximal to syenite bodies.

Previous soil geochemical sampling carried out in the early 1970's in the area now covered by Golden Rule's claims, partly delineated significant Cu-in-soils anomalies in seven different grid areas. Limited amounts of induced polarization surveying were done in two of these grid areas, but none were ever drilled and constitute interesting exploration targets. Zones of particular interest include geochemical anomalies on the HA 11 and DEN 3 claims, which should be investigated by induced polarization surveying.

Large areas in the central part of the claim block (Ha 4 and 6, and DEN 1 claims) as well as areas along both sides of the Osilinka River valley (DEN 8, 12, GRIZ 2 - 10 claims), have never been geochemically tested and should be surveyed at reconnaissance sample spacings. Detailed terrain analysis would be invaluable in designing and interpreting geochemical surveys in these intensely glaciated areas.

A hand trenching and blasting program is recommended to better investigate porphyry type quartz-chalcopyrite stringer mineralization which occurs over an area approximately 200′ by 60′ at the "GK" zone on the HA 10 claim.

Respectfully submitted,

Michael Fox, B.Sc., P.Geol.

February, 1991

6 STATEMENT OF EXPENDITURES

Supervisory Geological Personnel	$ 12,982.50
Support Personnel	3,375.00
Camp Costs	1,011.50
Field Costs	8,308.04
Helicopter and Fixed Wing Support	46,024.58
Travel Expenses	441.36
Expediting	229.15
Computer Costs	323.13
Geochemical Analyses	7,353.84
Contractor; Geophysical Surveys	89,352.77
Digital Topo Base	8,235.00
Drafting/Secretarial/Reproduction	900.00
TOTAL:	**$ 178,536.87**

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APPENDIX I

ANALYTICAL METHODS

TERRAMIN RESEARCH LABS LTD.
14-2235 - 30th Avenue N.E. Calgary, Alberta T2E 7C7
(403) 276-8668

GOLDEN RULE RESOURCES

SAMPLE PREPARATION

Soil and sediment samples are dried and sieved to -80 mesh (approx. 200 micron).

Rock Samples:

The entire sample is crushed to approx. 1/8" maximum, and split divided to obtain a representative protion which is pulverized to -200 mesh (approx 90 micron).

TERRAMIN RESEARCH LABS LTD.
14-2235 - 30th Avenue N.E. Calgary, Alberta T2E 7C7
(403) 276-8668

GOLDEN RULE RESOURCES

ANALYTICAL METHOD FOR GOLD AND SILVER

Approximately 1 assay ton of prepared sample is fused with a litharge/flux charge to obtain a lead button. The lead button is cupelled to obtain a prill. The prill is dissolved in nitric/hydrochloric acids (aqua regia), and the resulting solution is analysed by atomic absorption spectroscopy.

APPENDIX II

GEOCHEMICAL ANALYSES

86137 Loc. DEN 4 Claim, near post 5N2E, fine-grained to medium-grained; monzonite; K-feldspar alteration envelopes along "hair line" quartz +/- chalcopyrite stringers; also some secondary biotite after hornblende along altered fracture envelopes.

86138 Loc. DEN 4 Claim, near post 5N3E; medium-grained monzonite - weak K-feldspar alteration and traces of chalcopyrite accompanying widely-spaced "hair line" quartz stringers - low fracture density.

86139 Loc. DEN 9 claim, near post 4N2W rusty weathering, fractured, silicified, fine-grained green ash tuff (?) cut by narrow stringers of extremely fine-grained sulphides - patchy development of fine-grained quartz.

86140 Loc. DEN 10 Claim, 140 m SE of post OS1E; very fine-grained, hornfelsed dark grey to black, fractured, rust weathering metasediment.

86141 Loc. DEN 10 Claim, near LCP; silicified (hornfelsed) fine-grained, recrystallized, green volcanic - fine-grained sulphides on fracture planes.

86142 Loc. DEN 10 Claim, approximately 100 m E of post 4S4E; feldspar porphyry - approximately 20 - 25% 5 mm - 1 cm diameter feldspar phenocrysts in medium green groundmass, < 1% fine-grained euhedral disseminated pyrite.

86143 Loc. GRIZ 8 Claim, near post 4S0E; outcrop along Haha Creek; sheared carbonatized epidotized volcanic.

86144 Loc. DEN 4 Claim, approximately 200 m N of post OS1E; pyrite-haematite skarn at contact of syenite and melanocratic monzonite.

86145 Loc. same as for 86144. Massive K-feldspar vein cutting diorite.

86146 Loc. DEN 4 Claim, float in creek 200 m west of post OS1E. Disseminated chalcopyrite (< 1%) in pink fine-grained syenite.

DUCKLING CREEK PROJECT
(BC-38)

Sample	Description
86112	Loc. HA 9 Claim, small knob just below treeline; monzonite float cut by quartz-pyrite-chalcopyrite stringers, strong orange gossan occurs around knob due to weathering of K-feldspar from underlying syenite.
86113	Loc. HA 9 Claim, same area as 86112 weathered, coarse-grained pinkish-orange syenite; pale green clay (?) alteration of biotite crystals.
86114	Loc. GRIZ 10 Claim, extremely coarse-grained syenite; > 80% K-feldspar megacrysts, < 0.5% pyrite, < 0.5% magnetite.
86115	Loc. HA 10 Claim, orange weathering medium-grained, equigranular pyroxene syenite - no fresh sulphides.
86116	Loc. HA 10 Claim, near south boundary - south of "GK" copper showing; monzonite cut by quartz-K-feldspar-sulphide stringers - good K-feldspar alteration envelopes.
86119	Loc. HA 10 Claim, 20 - 30 m N of 86116 "GK" zone; malachite stained monzonite; pyrite and chalcopyrite occur disseminated in monzonite as well as in quartz-K-feldspar stringers and flatly dipping joint plane fillings, minor magnetite.
86120	Loc. HA 10 Claim, GK zone, sample similar to 86119.
86123	Loc. HA 10 Claim, GK zone, highgrade "grab".
86124	Loc. Haha Creek canyon at W boundary of GRIZ 4 claim; pyrite + chalcopyrite + chalcocite stringers and breccia fillings - pink K-feldspar (syenite) intrusive fragments.
86125	Loc. GRIZ 4 Claim, same location as 86124 (Haha Creek gold occurrence) - quartz-pyrite + magnetite (?) stringers in stringer/breccia zone similar to 86124.
86126	Loc. GRIZ 4 Claim, same location as 86125 leached, vuggy, limonitic quartz vein; occasional sulphide grains preserved.

86147 Loc. DEN 4 Claim 50 m (+/-) SW of post 0S1E. Quartz-K-feldspar-magnetite-epidote-chalcopyrite stringer cutting melanocratic diorite.

86160 Loc. DEN 6 Claim, float on basin floor approximately 300 m south of L.C.P. Minor disseminated chalcopyrite in pink syenite.

86230 Loc. DEN 10 Claim, bedrock "knob" approximately 400 m NNW of post 4S2E. Leucocratic sulphidic chert containing > 3% pyrrhotite; collected from a sequence of thinly bedded/laminated fine-grained to cherty volcanisedimentary rocks; disseminated extremely fine-grained sulphides in"concordant" bands.

86231 Same location at 86230, medium green fine-grained volcanisediment containing 1 - 2% pyrrhotite both as extremely fine-grained disseminations and as ragged blebs along dark silica-filled "hair line" fractures.

86232 Loc. DEN 9 Claim, 5 m east of L.C.P. thinly laminated (1/32" to 1/4" bands) hornfelsed metasediments or tuffs; extremely fine-grained light grey cherty bands alternating with greenish-grey silty bands; 1 - 2% pyrrhotite occurs as ragged blebs in "concordant" bands as well as on fracture planes, trace chalcopyrite; grey silicified areas give the rock a mottled greyish-green appearance. Strike and dip; 002/75W; jointing 260/70S and 208/66SE (limonitic).

86233 Loc. DEN 9 Claim, approximately 100 m N of LCP Feldspar porphyry dyke 10 - 15 m wide striking about 080 Degrees (?); greyish-pink feldspar phenocrysts 1 - 4 mm long in a medium grey, very fine-grained groundmass; < 1% chloritized mafics, occasional specks of pyrrhotite.

86234 Loc. DEN 9 Claim; N contact of feldspar porphyry dyke (86233); sample consists of dark grey siliceous hornfelsed material containing 2% extremely fine-grained disseminated pyrrhotite at intrusive-volcanic contact.

86235 Loc. DEN 10 Claim, approximately 175 m S of post 1S0E. Leucocratic, light grey extremely fine-grained to cherty hornfelsed volcanisedments, 2-3% disseminated fine-grained ragged blebs of pyrrhotite, strike and dip 016/64W.

86236 Loc. DEN 10 Claim, same area s 86235, shear zone; quartz-chlorite-pyrrhotite lens 5% fine-grained to medium-grained ragged blebs of pyrrhotite in quartz stringers in 0.3 m wide shear zone.

86237 Loc. DEN 10 Claim, limonitic recrystallized, hornfelsed thinly bedded siltstone or shale (016/64W), up to 5% pyrrhotite as bands of fine-grained disseminated grains.

86238 Loc. DEN 10 Claim, medium-grained dark greyish-green diorite dark (chilled margins), massive blocky weathering; jointing: 068/76S, 40 - 50 m wide.

86239 Loc. DEN 10 Claim, north side of above dyke (86238); rusty weathering sulphidic siltstone/shale unit, highly fractured, recrystallized.

86240 Loc. DEN 10 Claim, feldspar porphyry dyke; euhedral feldspar laths 3 - 4 min x 5 - 8 mm with sodic (?) cores in fine-grained greenish groundmass.

86241 DEN 10 Claim, pinkish-grey syenite dyke or sill (rubble - no good outcrop).

86242 DEN 9 Claim, leucocratic felsic tuff, (002/75W) hornfelsed, extremely fine-grained cherty tuff or metasediment with 1 - 2 % very fine-grained pyrrhotite disseminated in "concordant" bands, also some pyrrhotite (100% sulphide) stringers 1 - 2 mm wide.

86243 DEN 9 Claim, black, siliceous hornfelsed siltstone or shale (002/74W) with 2 - 3% disseminated pyrrhotite.

86244 DEN 9 Claim, feldspar poryhyry dyke, attitude undetermined.

86245 DEN 9 Claim, mafic tuff; medium-grained, dark green, biotite rich rock - almost a hybrid border phase of the batholith - 1 - 2% extremely fine-grained disseminated pyrrhotite; jointing: 055/85SE.

86246 DEN 9 Claim, felsic tuff (002/66W) very fine-grained thinly bedded, leucocratic, with < 1% disseminated pyrrhotite in bands and on fracture planes.

86247 DEN 9 Claim, quartz diorite dyke, fine-grained, equigranular, trace of pyrite, no attitude determined.

86248 DEN 10 Claim, feldspar porphyry dyke, probably striking 060 Degrees; light grey, rounded 0.5-1.0 cm diameter feldspar phenocrysts in a medium grey fine-grained groundmass.

86249 DEN 10 Claim, feldspar porphyry dyke, probable attitude 060/?, similar to 86248, but limonitic with 0.5% pyrrhotite disseminated and on fracture planes (048/76SE).

86250 DEN 4 Claim, near post 5N2E medium-grained to coarse grained strongly K metasomatized melanocratic hornblende diorite; mode: equant hornblended crystals to 6 mm diameter - 40 - 45% K-feldspar (altered plagioclase) 35% light grey feldspar (unaltered plagioclase) 20 - 25%; rock is cut by narrow quartz +/- chalcopyrite stringers with pink K-feldspar alteration envelopes and some secondary biotite; approximately 0.25% chalcopyrite.

86251 Loc. DEN 4 Claim, approximately 500 m SE of DEN 6 LCP; coarse-grained diorite cut by quartz-epidote-K-feldspar chalcopyrite stringer, near east contact of syenite.

86252 Loc. DEN 4 Claim, approximately 100 m NW of 86251. Quartz-K-feldspar-chalcopyrite/malachite stringers, lenses in syenite - float in talus-rare disseminated specks of chalcopyrite in the syenite.

86253 Loc. DEN 4 Claim, approximately 10 m S of 86251 pink, fine-grained syenite dyke (070/?) in "saddle"; chalcopyrite/malachite.

86254 Loc. DEN 4 Claim, approximately 1100 m E and 1500 m N of LCP on ridge crest - small bedrock knob 250 NW of peak 2080.04. Zone of intense fracturing closely spaced quartz stringers with inner epidote and outer K-feldspar alteration selvages (028/50NW) cutting earlier quartz-K-feldspar-sulphide stringers (104/30S); host rock is a K-metasomatized monzonite.

86255 Loc. DEN 4 Claim, on ridge crest 200 m NW of 86254; pink fine-grained equigranular syenite with 60% pink K-feldspar, 35% grey plagioclase feldspar and 5% fine-grained biotite - flat lying dyke or sill with probable attitude 034/25SE.

86256 Loc. DEN 4 Claim, on ridge crest 100 m NW of 86254; altered monzonite cut by quartz-K-feldspar-chalcopyrite stringers.

86257 Loc. DEN 4 Claim, approximately 500 m E of post 4NOE; fine-grained pink syenite sill (140/28E)- one of thousands injected along joint planes in the monzonite - "hair line" quartz-K-feldspar-chalcopyrite stringers have a similar orientation and are cut by later quartz-epidote-magnetite stringers (030/50 - 60 NW).

86258 Loc. DEN 4 Claim, 10 m NW of 86257 coarse-grained porphyritic quartz monzonite with approximately 25% 0.5 cm - 1.0 cm long ragged feldspar phenocrysts in coarse-grained light grey matrix, approximately 5% quartz, no sulphides; jointing 174/36E.

86259 Loc. DEN 4 Claim, on ridge crest approximately 200 m NW of 86258; fine-grained pink syenite dyke, 70 - 80% pink K-feldspar, 20 - 30% light grey plagioclase feldspar, 2% epidotized hornblende or biotite, minor quartz; jointing 100/70S.

86260 Loc. DEN 4 Claim, 10 m NW of 86259 altered melanocratic diorite or monzonite with chalcopyrite in fine-grained blebs, aggregates in quartz-K-feldspar stringers (058/20NW); monzonite also cut by strong epidote stringers along a fracture set (046/82NW); coarse-grained narrow amhibolitic zone (hornblende-epidote assemblage) along contact with syenite dyke (see 86259).

86261	Loc. DEN 4 Claim, same location as 86260; narrow, massive epidote-haematite (specularite) assemblage at syenite dyke-monzonite contact; syenite also carries disseminated flakes of specularite.
86262	Loc. DEN 6 Claim, approximately 300 m SW of post 0S2E (peak 2067.09). Intrusion breccia; intensely K-metasomatized melanocratic diorite (monzogabbro ?) as rounded blocks and fragments partly resorbed into greyish pink syenite matrix; hornblende in diorite is extensively altered to biotite; approximately 40% of rock volume consists of diorite clasts, blocks, fragments; jointing 140/84S and 056/80 NW.
86263	Loc. DEN 6 Claim, 50 m E of 86262. Aphanitic light grey to white felsic dyke or felsic alteration zone cutting intrusion breccia; leucocratic felsic zone is in turn cut by a K-feldspar rich syenite dykelet carrying a few specks of chalcopyrite.
86264	Loc. DEN 6 Claim, 75 m E of 86263. Altered Intrusion Breccia; intensely bleached, silicified leucocratic zone in intrusion breccia; angular to rounded comminuted blocks and fragments of diorite visible only as outlines or "ghosts" in the equally bleached and altered syenite matrix containing 1 - 3% fine-grained biotite; minor blebs of chalcopyrite in the diorite blocks.
86265	Loc. DEN 6 Claim, approximately 100 m N of 86264; weakly K-metasomatized melanocratic diorite/monzonite; approximately 70% feldspar consisting of roughly equal proportions of K-feldspar and plagioclase with approximately 30% medium to coarse-grained hornblende phenocrysts partly altered to biotite; traces of fine-grained disseminated chalcopyrite, plus one nice stringer of discontinuous very fine-grained chalcopyrite, jointing 116/86S.
86266	Loc. DEN 6 Claim, approximately 150 m NW of 76265; well-pyritized (10-12% extremely fine-grained to fine-grained disseminated pyrite) rusty weathering feldspar porphyry - 35% euhedral and broken light grey 3 mm x 1 cm feldspar laths in a siliceous, aphanitic, light grey, pyritized groundmass.

86267	Loc. DEN 4 Claim, approximately 100 m NW of peak 2080.04 about 1200 m E and 1500 m N of LCP; fine-grained equigranular monzonite containing approximately 30% fine-grained hornblende and roughly equal amounts (35%/35%) of K-feldspar and plagioclase feldspar cut by numerous quartz-epidote-K-feldspar stringers (354/84W, 260/78N, 045/52NW, 162/60E, and others); quartz stringers are mostly < 1 mm wide and carry minor pyrite and chalcopyrite and have K-feldspar alteration envelopes up to 10 cm wide; some secondary biotite developed on hornblende.
86268	Loc. DEN 4 Claim, 35 m S of 86267; monzonite, similar to 86267 but lacking the same intensity of quartz-epidote-K-feldspar veining; jointing 162/28W and 120/85N.
86269	Loc. DEN 4 Claim, approximately 260 m SSE of peak 2080.04; narrow zone of fine to medium-grained leucodiorite jointing 138/34SW; probably a NE striking/W dipping fault zone in saddle as jointing is almost horizontal lower down on the slopes.
86270	Loc. DEN 4 Claim, approximately 375 m SSE of peak 2080.04; narrow 15 cm wide quartz-carbonate vein in 1 m wide carbonate alteration zone (110/90), traces of malachite; host rock is leucodiorite.
86271	Loc. DEN 4 Claim, approximately 600 m SSE of peak 2080.04 50 m west of ridge crest; leached, limonitic quartz-pyrite-chalcopyrite vein along contact of syenite dyke (attitude ?) cutting leucodiorite.
86272	Loc. DEN 4 Claim, approximately 750 m SSE of peak 2080.04 on ridge crest; felsic alteration zone at contact of leucodiorite cut by syenite dyke-looks like a bleached syenite - trace sulphide.
86273	Loc. DEN 4 Claim, 5 m S of 86272; pink, fine-grained syenite dyke, foliation 060/64 SE; jointing in leucodiorite is 040/44NW.
86274	Loc. DEN 4 Claim, 150 m SSW of 86273; felsic dyke; very fine-grained, light greenish-grey, probably strikes ENE, no sulphides.

86275 Loc. DEN 4 Claim, on ridge crest 350 NE of peak 2067.09; sample showing contact relationships between leucodiorite and melanodiorite (monzonite) - contact is not an intrusive contact; weak foliation or flow banding (alignment of mafic minerals) uninterrupted throughout zone suggesting primary magmatic texture.

86276 Loc. DEN 4 Claim, 50 m E of ridge crest approximately 175 m NE of peak 2067.09; oxidized (limonitic) epidote-sulphide talus.

86277 Loc. DEN 6 Claim, approximately 550 m SE of peak 2067.09; white, aphanitic to fine-grained, fractured felsic dyke, foliation 060/80S, cross-fractures 050/50NW, trace sulphides.

86278 Loc. DEN 6 Claim, on ridge crest approximately 500 m SSW of peak 2067.09; zone of quartz-K-feldspar-chalcopyrite stringers and disseminated chalcopyrite (approximately 1 1/2% chalcopyrite) in fine-grained melanocratic monzonite to monzogabbro, weak secondary biotite alteration of hornblende.

86279 Loc. DEN 6 Claim, on ridge crest approximately 150 m NE of 86278; syenite or K-feldspar alteration envelope along fracture in monzonite, with minor disseminated pyrite and chalcopyrite.

86280 Loc. DEN 6 Claim, along ridge crest approximately 150 m SW of 86278; quartz vein (5 cm) with pink K-feldspar envelope, occasional oxidized scattered sulphides - in talus.

86281 Loc. DEN 6 Claim, on ridge crest approximately 125 m SW of 86280; melanocratic monzodiorite to monzogabbro containing approximately 0.25% very fine-grained disseminated chalcopyrite, traces malachite.

86262 Loc. DEN 6 Claim, 5 m SW of 86281 holomafic zone-biotite-hornblende-chlorite-epidote (after hornblende) zone approximately 15 m thick in monzodiorite/monzogabbro; probably a metamorphosed screen of Takla volcanics rather than a primary magmatic band of mafic minerals - much finer-grained than enclosing monzonitic rocks.

86283	Loc. HA 1 Claim, coarse-grained monzonite cut by quartz-K-feldspar-chalcopyrite stringers; jointing 090/85S, 060/90, 160/52W, 038/60 NW.
86264	Loc. HA 1 Claim, pinkish-grey syenite meagaporphyry, K-feldspar phenocrysts up to 1 cm x 5 cm; with pinkish, angular, partly resorbed blocks and fragments of finer-grained syenite enveloped in a matrix of coarse-grained (megacrystic) K-feldspar.
86285	Loc. HA 1 Claim, approximately 100 m S of 86284; miarolitic, megacrysitic syenite "megaporphyry; K-feldspar crystals 2 - 6 cm; occasional quartz-chalcopyrite stringers on fracture planes plus minor disseminated chalcopyrite (malachite) in cavities in the syenite.

ROCK SAMPLE DESCRIPTIONS

DUCKLING CREEK PROJECT
(BC-38)

(All collected along Haha Creek)

74978	Biotite - hornblende diorite. Lots of pink K-feldspar alteration. Sample has minor malachite stain in a strong K-feldspar alteration zone. Sulphides not seen. Zone about 20 cm wide, vertical strikes 080 Degrees.
74979	Hornblende - biotite diorite. Strong epidote, weaker K-feldspar alteration. Quartz vein, 15 cm wide, 120 Degrees/60 Degrees north. Two specks of chalcopyrite seen in vein.
74980	Diorite - similar to #74979. Strong K-feldspar alteration. Rusty patch on outcrop here a few metres across. One thin (less than 1 mm) chalcopyrite veinlet.
74981	Country rock here is relatively fresh syenite. Strong gossan from top to bottom of cliff - mostly inaccessible. Several m wide at top of cliff. Vuggy, limonitic, siliceous rock with much (10%) pyrite. composite sample grabbed from material at cliff top.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
74955	2	189	2	47	.5	11	16	533	4.87	2	5	ND	2	[illegible]	.2	2	2	72	.82	.030	2	52	1.58	124	.09	2	3.18	.19	.27	1
74956	1	141	2	29	.5	28	21	327	4.95	2	5	ND	1	35	.2	2	3	78	.88	.018	2	128	2.21	6	.08	2	3.70	.18	.02	1
74957	6	36	2	54	.3	53	16	853	3.78	50	5	ND	2	37	.2	2	2	72	2.48	.029	2	295	2.30	12	.01	3	1.98	.02	.03	1
74958	6	5	2	49	.3	123	17	862	3.22	25	5	ND	1	39	.2	2	2	44	6.03	.041	2	228	1.49	16	.01	2	1.40	.01	.04	1
74959	1	66	2	81	.4	28	15	671	4.17	69	5	ND	1	26	.2	2	2	69	1.67	.048	6	28	.39	44	.01	5	.61	.01	.07	1
74960	1	38	2	56	.4	20	12	825	3.72	3	5	ND	2	153	.2	2	2	69	16.22	.023	2	37	.83	21	.01	3	.48	.01	.03	1
74961	1	53	4	64	.3	22	17	668	3.99	12	5	ND	2	32	.2	2	2	82	1.42	.108	7	43	.53	111	.01	3	.93	.02	.10	1
74962	1	4	3	44	.1	4	6	724	2.82	5	5	ND	2	7	.2	2	2	41	.26	.087	13	21	.07	60	.01	5	.75	.01	.10	1
74963	1	26	2	39	.2	21	9	1185	3.66	14	5	ND	1	89	.2	2	2	58	13.12	.017	2	35	3.59	3	.01	2	.36	.01	.03	1
74964	1	33	2	41	.2	24	11	1039	2.93	19	5	ND	2	57	.2	2	2	57	8.77	.021	2	45	1.78	3	.01	2	.31	.01	.02	1
74965	1	79	2	76	.1	34	29	1215	7.00	15	5	ND	2	2	.2	2	2	221	.02	.048	6	52	.05	20	.01	3	.73	.01	.04	1
74966	1	11	2	29	.3	29	6	1180	4.92	5	5	ND	2	151	.2	2	2	14	16.67	.005	2	32	3.07	6	.01	2	.16	.01	.05	1
74967	5	40	11	65	.4	12	6	748	2.67	2	5	ND	3	46	.2	2	2	17	3.58	.016	3	60	.16	16	.01	3	.30	.04	.06	1
74968	1	27	2	58	.2	6	20	1943	7.79	2	5	ND	3	[illegible]	.4	2	3	44	10.93	.050	5	13	1.43	36	.01	2	.45	.02	.08	1
74969	4	77	654.	2254	.5	8	13	821	3.17	5	5	ND	3	30	8.2	2	2	48	11.86	.036	5	38	.55	13	.01	2	1.01	.04	.04	1
74970	3	95	4	112	.2	7	25	1479	6.28	3	5	ND	3	12	.2	2	2	68	1.08	.107	7	53	.17	23	.01	3	.60	.02	.07	1
74971	1	73	3	96	.3	20	23	1208	7.03	3	5	ND	3	12	.2	2	2	214	2.25	.047	5	61	2.48	15	.38	2	2.42	.04	.04	1
74972	2	41	3	2	.2	1	2	18	3.35	2	5	ND	2	9	.2	2	2	21	.02	.020	2	21	.01	12	.01	2	.26	.06	.03	1
74973	3	23	2	100	.3	15	12	772	4.48	2	5	ND	4	20	.2	2	2	64	1.64	.051	12	35	.91	36	.33	2	1.47	.06	.04	1
74974	2	69	144	921	.3	6	10	892	3.84	2	5	ND	3	15	3.2	2	2	40	2.74	.054	6	21	.23	12	.01	2	.84	.06	.04	1
74975	3	41	3	95	.2	20	12	780	4.27	8	5	ND	3	70	.4	2	2	116	7.98	.052	6	31	.96	12	.29	4	1.31	.05	.02	1
74976	3	44	3	112	.3	10	15	622	2.52	2	5	ND	2	45	.2	2	2	68	8.53	.032	4	32	.37	4	.20	2	.77	.05	.02	1
74977	5	44	6	120	.3	4	10	69	4.79	2	5	ND	2	1	.2	2	2	15	.01	.006	2	78	.07	2	.03	2	.23	.05	.02	1
74978	3	6030	7	42	3.0	4	24	553	4.15	8	5	ND	4	44	.5	2	2	50	1.34	.133	10	25	.83	83	.06	2	1.13	.02	.07	1
74979	3	165	2	3	.1	1	2	1851	.50	2	5	ND	1	265	.2	2	2	4	22.72	.006	9	37	.10	1583	.01	2	.37	.01	.05	1
74980	3	212	5	50	.3	3	11	438	4.35	3	5	ND	6	41	.2	2	2	117	1.01	.174	14	28	.83	62	.14	5	1.23	.05	.12	1
74981	78	283	5	28	1.6	5	101	415	19.31	61	5	ND	3	5	.2	2	4	83	.03	.026	2	68	.24	58	.02	2	.70	.01	.09	4
86226	7	482	694	1578	16.0	77	90	1223	16.89	859	5	ND	2	21	4.3	33	3	10	1.43	.007	2	100	.33	27	.01	2	.17	.01	.03	1
86228	1	43	26	200	.7	27	16	1426	5.20	10	5	ND	2	150	1.0	3	2	46	10.19	.096	4	23	2.29	440	.01	7	.46	.01	.16	1
86229	1	85	14	161	.6	30	25	1310	6.42	2	5	ND	2	78	.8	2	2	147	3.55	.112	6	70	2.63	396	.08	4	2.23	.04	.08	1
86230	3	132	4	20	.2	20	21	288	3.42	2	5	ND	1	17	.2	2	2	61	.69	.049	2	52	.58	28	.17	2	.97	.12	.12	1
86231	5	120	3	14	.3	25	19	84	2.25	3	5	ND	2	47	.2	2	2	30	.85	.051	3	83	.12	6	.19	2	.85	.14	.04	1
86235	5	168	4	20	.2	17	12	238	2.69	8	5	ND	2	50	.2	2	2	34	1.22	.049	2	54	.29	12	.16	6	1.32	.10	.05	1
86236	6	187	2	18	.3	20	23	649	7.81	41	5	ND	3	10	.2	2	2	61	2.25	.043	4	37	.73	5	.12	7	3.56	.01	.03	1
86237	6	127	3	16	.4	36	19	187	4.20	13	5	ND	3	103	.2	2	2	83	3.69	.057	6	59	.38	18	.18	4	3.18	.16	.09	1
86239	18	171	3	11	.3	15	22	162	3.29	17	5	ND	2	7	.2	2	2	54	1.40	.052	2	73	.30	3	.24	3	1.16	.05	.03	1
STANDARD C	19	61	39	130	7.0	73	31	1049	3.94	43	18	7	40	52	19.7	16	20	60	.45	.095	40	60	.90	188	.08	37	1.89	.07	.13	13

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
86241	2	128	7	33	.1	10	7	391	2.97	4	5	ND	11	36	.2	2	2	73	.68	.085	13	48	.71	23	.19	5	1.09	.04	.08	1
86242	7	176	6	91	.3	20	22	166	2.34	5	5	ND	1	160	.2	2	2	27	1.09	.058	4	62	.16	26	.15	4	1.58	.24	.04	1
86243	17	127	5	53	.3	40	17	355	4.72	10	5	ND	1	104	.2	2	2	36	1.90	.042	4	47	.21	9	.15	9	2.14	.17	.04	1
86244	3	107	4	44	.2	1	5	389	1.85	2	5	ND	2	68	.2	2	2	53	1.22	.106	9	41	.32	46	.10	7	1.22	.09	.11	1
86246	5	155	3	12	.2	57	26	146	2.40	45	5	ND	1	13	.2	2	2	33	.77	.032	2	85	.33	5	.14	4	.66	.11	.02	1
86248	1	61	3	44	.3	10	7	529	2.38	15	5	ND	2	81	.2	2	2	58	1.48	.134	8	34	.67	51	.13	5	1.31	.09	.09	1
86249	1	61	4	61	.5	10	10	439	2.88	9	5	ND	2	76	.2	2	2	72	1.25	.135	11	54	.72	31	.16	5	1.45	.12	.12	1
86250	2	441	2	64	.4	6	14	541	6.08	11	6	ND	6	35	.2	2	2	167	1.06	.169	12	40	.62	34	.14	5	.94	.03	.07	1
86251	3	3173	6	177	1.3	21	14	2089	5.45	3	8	ND	2	90	.2	2	2	66	.50	.067	4	80	1.72	9	.11	3	2.18	.05	.01	26
86252	3	539	6	54	.1	13	6	749	3.00	9	5	ND	17	45	.2	2	2	55	1.14	.071	10	70	.74	20	.02	5	1.04	.03	.05	1
86253	7	970	3	48	1.4	5	14	976	3.57	7	5	ND	4	54	.3	2	2	72	1.50	.074	8	39	.57	62	.04	3	.39	.04	.29	1
86255	5	15	5	19	.1	2	3	282	1.78	3	5	ND	35	11	.2	2	2	10	.24	.019	19	67	.19	19	.09	9	.49	.04	.10	1
86257	7	11	5	6	.1	2	1	72	.71	3	5	ND	45	2	.2	2	2	2	.02	.004	23	91	.04	13	.01	4	.20	.04	.08	1
86258	6	133	2	21	.2	29	8	150	3.01	3	5	ND	4	38	.2	2	2	168	.70	.166	11	146	.51	50	.10	6	.68	.11	.15	1
86259	7	16	2	8	.1	2	1	147	.60	2	5	ND	47	8	.2	2	2	1	.17	.002	20	95	.02	27	.01	3	.14	.05	.06	1
86260	2	1017	5	190	.3	35	18	2170	5.52	2	9	ND	2	141	.2	2	2	103	.91	.150	6	104	2.18	9	.08	4	2.64	.02	.02	1
86261	5	8	2	67	.2	15	67	1135	5.97	7	5	ND	21	12	.2	2	2	40	.79	.045	4	95	.67	60	.01	5	1.18	.01	.21	10
86262	3	84	4	23	.1	3	6	244	3.37	4	5	ND	4	62	.2	2	2	130	.99	.171	9	46	.30	58	.09	8	.70	.05	.10	1
86263	7	139	3	4	.1	1	1	68	.20	2	5	ND	3	59	.2	2	2	20	.77	.004	6	77	.01	24	.23	8	.65	.12	.06	1
86264	6	22	3	11	.1	1	1	168	.43	2	5	ND	11	42	.2	2	2	18	.80	.055	8	74	.14	29	.11	5	.58	.08	.08	1
86265	4	443	2	55	.4	5	14	618	5.02	2	5	ND	3	68	.2	2	2	157	1.47	.201	12	50	1.02	122	.15	8	1.25	.08	.34	1
86266	4	47	4	12	.2	2	12	167	2.78	2	5	ND	6	47	.2	2	2	57	.29	.024	7	50	.28	40	.07	5	.72	.04	.18	1
86267	3	213	9	57	.2	3	12	651	4.71	5	5	ND	4	46	.2	2	2	146	1.15	.170	12	37	1.11	116	.18	11	1.32	.06	.13	1
86268	4	67	2	32	.1	4	11	353	4.28	2	5	ND	1	51	.2	2	2	162	.73	.188	12	51	.72	86	.12	6	.75	.11	.22	1
86269	2	85	2	40	.2	3	11	410	4.30	2	5	ND	2	111	.2	2	2	178	1.07	.184	9	34	.71	242	.18	5	1.33	.16	.29	1
86270	7	305	3	118	.6	5	13	2956	3.41	31	13	ND	1	74	1.6	6	2	27	12.12	.023	3	59	2.69	337	.01	6	.19	.01	.08	1
86271	6	196	47	14	3.3	7	28	63	14.29	29	5	ND	1	107	.2	2	2	97	.13	.111	3	38	.14	155	.04	2	.54	.01	.26	1
86272	20	1247	2	78	1.9	4	8	1988	1.87	68	5	ND	1	53	2.6	35	2	20	6.72	.032	3	85	1.44	488	.01	11	.18	.01	.07	1
86273	8	13	3	21	.1	2	5	227	2.10	2	5	ND	6	20	.2	2	2	37	.35	.045	7	99	.42	49	.10	6	.59	.06	.16	1
86274	4	21	2	15	.1	1	1	138	.24	2	5	ND	1	50	.2	2	2	17	.90	.018	4	58	.11	47	.19	7	.75	.09	.06	1
86275	4	59	4	15	.1	3	5	103	1.29	6	5	ND	3	54	.2	2	2	57	1.16	.249	11	45	.15	44	.11	7	.62	.08	.09	1
86276	12	95	2	105	.3	11	33	1607	10.11	7	5	ND	2	121	.5	2	2	86	.86	.207	3	25	2.56	109	.09	2	3.92	.01	.45	1
86277	3	19	8	14	.1	1	1	49	.09	12	5	ND	1	48	.2	2	2	12	1.81	.006	5	28	.03	112	.12	9	1.41	.07	.08	1
86278	3	5266	7	50	3.2	8	18	404	6.63	6	5	ND	3	43	.3	2	2	206	.84	.204	10	32	.70	84	.15	8	.94	.07	.20	1
86279	3	782	3	23	.3	4	10	339	3.52	6	5	ND	6	83	.2	2	3	115	1.25	.189	10	31	.47	63	.11	11	1.05	.07	.13	1
86280	10	665	2	11	.2	9	10	214	5.09	2	5	ND	24	65	.2	2	2	35	.46	.046	6	78	.12	47	.01	5	.62	.03	.10	1
STANDARD C	18	59	38	131	7.1	71	32	1049	3.94	41	21	6	40	56	19.2	16	19	58	.45	.091	39	59	.89	183	.08	39	1.89	.06	.13	13

Golden Rule Resources Ltd. FILE # 90-4927

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
86281	2	739	5	38	.8	4	21	435	6.62	3	5	ND	3	131	.2	2	2	282	3.08	.487	6	21	1.18	131	.15	4	2.56	.12	.19	1
86282	1	20	2	36	.6	73	32	297	10.47	2	5	ND	2	165	.2	2	2	443	1.89	.040	2	146	1.42	151	.22	2	2.95	.15	.35	1
86283	2	166	7	21	.3	3	8	268	4.20	2	5	ND	3	46	.2	2	2	127	.88	.173	11	36	.47	89	.16	5	.78	.08	.22	1
86284	3	123	2	19	.2	1	2	180	1.46	2	5	ND	4	89	.2	2	2	97	.19	.034	6	45	.10	61	.07	2	.27	.05	.15	1
86285	3	1544	2	57	.4	2	5	353	2.32	3	5	ND	2	85	.2	2	2	113	.33	.055	8	50	.20	30	.08	3	.43	.06	.12	1
86286	1	7	7	96	.6	8	6	1815	4.17	3	7	ND	1	303	.3	2	2	27	22.23	.002	2	15	4.99	8	.01	2	.04	.01	.02	1
86287	4	78	5	64	.4	6	11	1111	3.98	6	5	ND	16	43	.2	2	2	105	1.66	.116	15	35	.89	59	.06	8	1.36	.07	.18	1
86801	1	16	2	69	.2	3	17	929	4.91	2	5	ND	1	47	.2	2	2	52	.78	.034	2	29	1.67	24	.21	3	2.93	.06	.04	1
86802	1	39	2	69	.1	2	12	662	4.78	2	5	ND	1	45	.2	2	2	60	.60	.067	2	22	1.42	20	.29	2	2.63	.08	.03	1
86803	2	48	3	103	.3	1	9	243	5.01	2	5	ND	1	40	.2	2	2	60	.94	.077	2	30	1.85	198	.25	2	2.37	.11	.63	1
86805	1	1212	2	112	1.0	15	20	1206	4.67	5	5	ND	1	76	1.2	2	2	39	2.56	.039	2	53	2.15	9	.16	2	3.10	.03	.05	1
86806	2	85	3	89	.4	43	22	708	5.96	3	5	ND	1	18	.2	2	2	46	.50	.049	2	77	2.09	22	.23	2	2.12	.06	.05	1
86807	1	68	2	42	.3	46	24	635	3.53	4	5	ND	1	21	.2	2	2	57	1.27	.012	2	94	2.77	2	.17	3	3.06	.01	.01	1
86808	3	111	2	7	.3	18	20	91	3.21	3	5	ND	1	46	.2	2	2	21	.91	.039	2	25	.12	8	.22	3	.71	.07	.01	1
86810	1	36	5	72	.3	7	13	1193	4.36	2	5	2	2	460	.2	2	2	102	16.19	.035	6	17	3.67	108	.01	2	.37	.01	.02	1
86812	3	592	2	114	.3	5	15	1850	7.60	4	5	ND	5	9	.2	2	2	57	.55	.101	8	53	1.74	70	.01	2	3.37	.01	.19	1
86813	4	18910	22	63	10.5	5	12	751	13.89	15	10	ND	2	4	3.6	2	2	57	.19	.027	3	56	.64	18	.01	2	1.26	.01	.10	12
86814	2	91	2	233	.1	5	15	2866	10.15	2	5	ND	6	19	.2	2	2	82	.37	.128	12	25	1.49	129	.01	2	3.52	.01	.26	1
86815	6	13340	5	246	4.6	3	22	2509	19.29	49	14	ND	3	5	1.6	6	2	52	.11	.038	5	38	.90	39	.01	2	2.95	.01	.07	5
86816	1	113	4	52	.1	9	14	532	2.48	2	5	ND	1	82	.2	2	2	116	3.14	.059	3	19	2.30	23	.09	3	2.66	.03	.03	1
86817	5	167	3	21	.5	6	14	358	3.42	2	5	ND	1	63	.2	2	2	50	.92	.057	2	69	.70	41	.22	2	1.22	.03	.06	6
86818	7	155	4	38	1.3	12	31	424	5.30	2	5	ND	1	40	.2	2	2	50	.52	.040	2	52	1.15	62	.17	2	1.47	.04	.11	1
86819	1	42	3	49	.2	11	26	510	3.90	2	5	ND	1	57	.2	2	2	122	.89	.065	2	32	1.94	23	.16	2	2.31	.05	.04	1
86820	14	2296	2	39	5.9	13	53	316	7.48	2	5	ND	1	31	.2	2	5	101	.31	.037	2	78	.92	20	.12	2	1.21	.08	.02	31
86821	2	47	3	59	.1	6	14	414	3.68	5	5	ND	1	26	.2	3	2	94	.80	.031	2	38	1.69	232	.13	4	2.29	.07	.35	1
86822	1	72	2	43	.3	89	25	932	3.60	8	5	ND	2	87	.2	2	2	109	16.48	.045	2	143	.21	14	.01	3	.77	.03	.04	1
86823	1	11	2	51	.1	2	7	543	2.74	2	5	ND	1	35	.2	2	2	31	1.14	.019	2	34	.81	121	.12	2	2.39	.20	.79	1
86824	1	51	2	80	.1	12	15	776	4.74	2	5	ND	1	34	.2	2	2	105	.97	.070	2	21	2.63	12	.31	3	3.19	.03	.01	1
86825	15	2	5	2	47.2	4	1	27	.87	11	5	32	1	4	.2	2	2	4	.04	.009	2	205	.04	4	.01	2	.07	.01	.01	1
86826	1	40	2	107	.5	36	16	3325	6.34	2	5	ND	1	77	.5	2	2	172	8.85	.017	2	116	2.49	205	.07	2	3.29	.23	.47	1
86828	1	77	2	80	.3	37	19	984	5.36	2	5	ND	1	34	.2	2	2	168	1.54	.044	2	106	2.68	54	.06	2	2.66	.06	.12	1
86829	1	253	7	1253	1.4	12	23	604	6.27	10	5	ND	1	14	9.1	2	2	123	.42	.025	2	39	1.57	51	.13	2	2.86	.12	.30	1
86830	1	30	2	93	.2	31	15	454	5.48	2	5	ND	1	57	.2	2	2	153	.92	.015	2	99	2.64	257	.17	3	5.66	.33	1.06	1
86831	2	68	2	91	.1	46	25	387	6.45	2	5	ND	1	26	.2	2	2	115	.49	.048	2	132	1.66	36	.14	2	2.71	.16	.53	1
86832	3	60	3	64	.1	47	32	428	6.59	2	5	ND	1	33	.2	2	2	93	.63	.041	2	119	1.15	31	.16	2	2.39	.19	.58	1
86833	3	86	2	62	.4	16	22	702	6.97	2	5	ND	1	26	.2	2	2	67	2.32	.022	2	64	1.09	45	.11	2	2.04	.19	.42	1
86834	5	18	2	14	.1	3	6	226	1.35	2	5	ND	1	31	.2	2	2	29	.89	.025	2	66	.33	7	.15	2	1.06	.03	.01	1
STANDARD C	18	63	40	131	7.0	73	31	1050	3.94	38	17	7	39	52	19.5	16	20	59	.45	.093	40	60	.90	183	.08	38	1.89	.06	.14	13

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
RG 187	7	94	17	78	.1	47	18	2105	6.02	86	5	ND	1	41	.2	2	2	217	.91	.112	5	144	1.98	100	.08	2	3.79	.03	.06	3
RG 188	5	87	18	137	.1	39	17	1207	5.80	83	5	ND	1	30	.7	4	2	114	.89	.062	3	92	1.82	119	.21	2	2.69	.04	.08	1
RG 189	3	73	16	118	.1	40	17	1304	6.10	113	5	ND	1	20	.5	3	2	130	1.04	.063	4	96	1.89	90	.19	2	2.95	.03	.08	1
RG 190	3	69	12	107	.1	44	17	1331	5.72	135	5	ND	1	28	.2	4	2	117	.88	.065	4	96	2.00	77	.16	3	2.92	.03	.07	1
RG 191	3	77	9	126	.1	47	19	1295	6.13	114	5	ND	1	23	.6	5	2	129	.96	.066	4	104	1.93	92	.18	3	2.94	.03	.08	1
RG 192	3	58	15	104	.1	51	17	1179	5.55	71	5	ND	1	19	.9	5	2	125	1.01	.062	3	111	2.05	67	.19	4	3.02	.04	.08	1
RG 193	3	54	11	112	.1	58	18	1122	5.52	54	5	ND	1	24	.3	4	2	123	1.11	.063	3	123	2.17	70	.19	5	3.16	.05	.09	1
RG 194	2	55	9	102	.1	59	17	1077	5.57	53	5	ND	1	22	.8	4	2	122	1.09	.064	3	121	2.18	61	.19	5	3.09	.05	.08	1
RG 195	3	60	15	100	.1	65	19	1048	5.82	42	5	ND	1	29	.2	6	2	120	1.12	.068	4	125	2.11	64	.18	5	3.02	.05	.09	1
RG 196	2	61	17	95	.1	58	17	1069	4.90	57	5	ND	1	26	.2	5	2	104	.88	.065	5	104	1.94	64	.15	5	2.73	.03	.06	1
RG 197	2	56	7	82	.1	58	16	962	4.84	35	5	ND	1	23	.2	4	2	101	.91	.067	3	105	2.02	52	.16	4	2.70	.04	.06	1
RG 198	2	54	2	81	.1	58	16	944	4.84	28	5	ND	1	23	.2	3	2	100	.92	.068	4	100	2.02	48	.15	3	2.67	.04	.06	1
RG 199	2	54	2	83	.1	56	16	945	4.91	26	5	ND	1	24	.2	5	2	102	.95	.067	3	113	2.05	48	.16	8	2.73	.04	.07	1
RG 200	2	56	12	83	.2	56	16	951	4.66	32	5	ND	1	25	.2	3	2	96	.89	.067	4	105	1.95	50	.14	5	2.61	.04	.06	1
RG 201	2	54	7	80	.1	55	16	951	4.63	32	5	ND	1	24	.2	4	2	98	.90	.063	3	101	1.95	51	.15	6	2.63	.04	.06	1
RG 202	1	50	13	75	.1	54	15	951	4.55	28	5	ND	1	23	.2	4	2	98	.90	.066	3	102	2.00	49	.15	7	2.65	.04	.07	1
DK 110	2	67	15	65	.1	58	21	1305	4.85	36	5	ND	1	34	.2	3	2	102	.84	.070	3	103	2.17	75	.17	4	2.79	.06	.07	1
DK 111	3	92	19	136	.3	112	35	1844	7.61	286	5	ND	1	38	1.8	7	2	114	.41	.118	4	116	.27	134	.01	8	.96	.01	.13	1
DK 112	2	75	11	86	.1	63	19	1104	4.80	58	5	ND	1	40	.2	4	2	99	.86	.082	6	112	1.58	143	.07	2	2.38	.03	.08	1
DK 113	2	51	9	72	.1	66	17	1050	4.57	19	5	ND	1	31	.4	5	2	94	.79	.065	4	110	2.00	88	.13	2	2.59	.04	.07	1
DK 114	2	50	11	72	.1	70	18	1010	4.54	17	5	ND	1	31	.2	5	2	93	.77	.066	3	116	2.13	79	.13	5	2.67	.05	.08	1
DK 115	3	52	8	64	.1	64	18	888	4.31	17	5	ND	1	36	.2	4	2	90	.89	.067	4	124	1.93	87	.12	5	2.53	.04	.07	1
DK 116	1	47	8	75	.1	69	17	953	4.45	14	5	ND	1	29	.2	3	2	91	.79	.068	4	107	2.16	67	.15	3	2.66	.05	.07	1
DK 117	2	47	11	68	.1	68	18	919	4.41	13	5	ND	1	29	.5	3	2	90	.77	.065	3	104	2.13	67	.14	5	2.62	.04	.06	1
86227	1	892	35	355	3.7	33	13	6729	3.81	212 *	7	ND	1	107	1.9	8	2	14	18.31	.012	6	74	2.90	20	.01	4	.44	.01	.01	1
86232	4	115	10	94	.2	38	17	345	2.58	29	5	ND	1	69	.3	2	2	70	1.57	.063	2	45	.46	15	.25	3	1.44	.15	.04	3
86233	3	81	8	23	.1	11	6	254	2.81	7	5	ND	12	29	.2	2	2	73	.99	.104	12	51	.66	39	.20	3	1.05	.07	.14	4
86234	1	83	11	39	.1	31	26	483	4.11	141	5	ND	1	51	.2	2	2	82	1.50	.046	2	50	1.64	11	.20	4	2.77	.23	.06	2
86238	1	96	5	46	.1	60	19	276	3.10	6	5	ND	1	122	.3	2	2	56	1.30	.038	2	74	2.60	60	.10	2	3.51	.28	.12	3
86240	2	17	13	37	.1	4	8	448	1.72	4	5	ND	1	130	.2	2	2	44	1.71	.099	2	49	.71	40	.11	8	1.51	.10	.10	1
86245	1	99	2	40	.2	50	20	422	3.60	7	5	ND	1	9	.2	4	2	74	1.36	.030	2	79	2.11	24	.17	3	2.39	.21	.03	3
86247	1	22	3	44	.1	4	4	584	3.23	7	5	ND	1	33	.2	2	2	68	2.30	.119	6	30	.81	13	.13	9	2.27	.11	.09	1
86254	2	34	10	1288	.1	2	24	3339	5.55	5	5	ND	1	109	1.8	3	2	76	1.00	.197	6	41	1.75	29	.09	2	2.62	.02	.05	1
86256	2	372	15	59	.3	1	12	632	4.66	7	5	ND	2	42	.2	2	2	135	1.27	.199	9	29	.91	66	.10	7	1.27	.05	.09	1
86401	4	27	7	18	.1	725	34	481	3.39	209	5	ND	1	91	.2	10	2	16	2.07	.005	2	227	9.01	207	.01	2	.08	.01	.04	1
86404	3	13	4	23	.1	11	2	232	.59	4	5	ND	1	484	.2	2	2	33	33.44	.078	2	26	.40	61	.02	2	.32	.01	.21	2
STANDARD C	18	63	36	132	7.4	73	31	1061	3.99	39	18	7	38	53	18.4	19	19	55	.49	.095	36	60	.90	180	.07	35	1.90	.06	.13	11

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VA... JVER ... 1R... PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Golden Rule Resources Ltd. File # 90-4718 Page 1

410 - 1122 - 4th St. S.W., Calgary AB T2R 1M1

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
DK-1	2	87	15	84	.7	17	4	139	.70	6	5	ND	1	52	.4	2	2	17	.79	.113	4	44	.37	69	.02	4	1.00	.02	.10	1
DK-2	4	79	4	95	.6	27	18	1618	3.77	5	5	ND	1	85	.5	2	2	91	.88	.101	4	84	.94	91	.07	3	1.69	.03	.14	1
DK-3	5	57	3	75	.3	27	19	2909	3.61	6	5	ND	1	83	.3	2	2	83	.85	.080	2	84	.64	99	.07	4	1.43	.04	.12	1
DK-4	5	69	2	77	.4	25	16	2375	3.53	2	5	ND	1	88	.4	2	2	81	.90	.070	3	81	.58	91	.07	4	1.49	.04	.11	1
DK-5	7	47	2	75	.2	22	16	2698	3.57	2	5	ND	1	92	.6	2	2	81	.85	.063	2	96	.51	92	.10	3	1.26	.06	.14	1
DK-6	5	38	3	58	.1	19	10	723	2.99	2	5	ND	1	128	.2	2	2	88	.69	.060	3	100	.67	56	.10	4	.99	.05	.14	1
DK-7	5	37	2	63	.2	21	10	664	3.19	2	5	ND	1	124	.2	2	2	94	.75	.067	3	113	.73	53	.10	3	1.01	.05	.14	2
DK-8	3	38	3	48	.1	17	10	662	2.82	2	5	ND	1	119	.4	2	2	86	.61	.057	3	81	.63	52	.09	2	.94	.04	.12	2
DK-9	3	35	2	42	.1	15	9	607	2.63	2	5	ND	1	120	.2	2	2	82	.56	.056	3	68	.57	49	.08	2	.84	.04	.12	2
DK-10	6	44	7	56	.3	18	12	1321	3.12	2	5	ND	1	144	.2	2	2	84	.66	.057	3	96	.55	78	.08	3	1.06	.05	.13	1
DK-11	4	36	2	44	.2	16	9	615	2.75	2	5	ND	1	125	.2	2	2	77	.74	.064	2	80	.63	57	.10	3	1.03	.05	.13	2
DK-12	6	42	5	50	.2	17	10	656	3.05	2	5	ND	1	131	.2	2	2	86	.80	.064	3	96	.68	62	.10	2	1.17	.07	.14	2
DK-13	4	38	5	49	.1	16	9	497	2.98	2	5	ND	1	113	.2	2	2	87	.82	.061	2	84	.70	52	.11	3	1.13	.06	.13	2
DK-14	5	35	3	55	.1	20	11	629	4.09	3	5	ND	1	131	.2	2	2	126	1.08	.065	2	126	.77	50	.13	9	1.25	.07	.14	1
DK-15	5	39	4	45	.1	15	10	648	2.87	2	5	ND	1	123	.2	2	2	81	.83	.057	2	85	.67	59	.10	5	1.17	.07	.13	2
DK-16	5	36	2	51	.1	17	10	659	3.15	2	5	ND	1	120	.2	2	2	91	.88	.062	2	91	.70	56	.11	4	1.19	.07	.14	2
DK-17	5	42	2	58	.1	18	11	675	3.27	4	5	ND	1	123	.2	2	2	94	1.00	.066	3	100	.76	56	.11	2	1.27	.07	.13	1
DK-18	6	34	4	48	.3	14	9	615	2.76	2	5	ND	1	130	.2	2	2	76	.78	.056	3	87	.62	63	.10	2	1.12	.07	.13	2
DK-19	3	42	3	44	.1	14	9	478	2.57	6	5	ND	1	81	.2	2	2	70	.64	.050	2	59	.59	39	.08	2	.97	.04	.08	2
DK-20	3	46	3	48	.1	15	9	453	2.78	6	5	ND	1	84	.2	2	2	79	.70	.053	2	58	.66	43	.09	2	1.06	.04	.08	3
DK-21	4	41	2	44	.3	15	9	742	2.72	2	5	ND	1	93	.2	2	2	72	.70	.042	2	63	.60	47	.09	5	1.05	.05	.10	2
DK-22	6	127	9	67	.5	22	13	1344	3.54	2	5	ND	1	134	.2	2	2	88	1.40	.076	5	78	.72	71	.07	5	1.45	.04	.07	1
DK-23	3	65	4	35	.2	19	11	396	2.87	3	5	ND	1	87	.2	2	2	93	.81	.066	3	64	.75	50	.09	3	1.19	.05	.10	1
DK-24	2	59	2	33	.2	18	11	364	2.59	2	5	ND	1	83	.2	2	2	80	.77	.063	2	56	.74	49	.09	2	1.15	.04	.10	1
DK-26	8	81	2	38	.1	5	6	378	2.59	2	5	ND	1	64	.2	2	2	83	.49	.070	5	79	.36	79	.07	2	.81	.05	.12	1
DK-27	5	77	2	42	.1	4	6	359	2.19	2	5	ND	1	55	.2	2	3	68	.48	.080	5	40	.37	64	.06	2	.73	.03	.07	1
DK-28	6	71	2	42	.1	4	6	351	2.00	3	5	ND	1	56	.2	2	2	59	.47	.070	5	54	.35	68	.05	3	.74	.04	.09	2
DK-29	5	72	2	37	.1	4	7	348	3.13	2	5	ND	1	54	.2	2	2	101	.46	.075	5	48	.35	61	.06	2	.71	.04	.08	1
DK-30	11	83	3	40	.3	6	7	411	3.09	2	5	ND	1	75	.2	2	2	95	.56	.083	6	110	.39	92	.08	4	.91	.07	.14	1
DK-31	12	100	4	41	.3	9	10	484	6.29	2	5	ND	1	76	.2	2	3	210	.60	.094	8	132	.41	79	.09	4	.94	.07	.13	2
DK-33	10	47	4	26	.1	9	7	371	2.50	2	5	ND	1	130	.2	2	2	78	.64	.103	6	108	.39	124	.07	2	.82	.08	.16	1
DK-34	5	60	2	31	.2	7	7	300	2.72	2	5	ND	1	69	.2	2	2	87	.60	.109	5	56	.40	56	.07	2	.76	.04	.08	2
DK-35	6	52	4	31	.1	14	11	364	7.29	5	5	ND	1	65	.2	2	3	264	.53	.086	5	111	.33	53	.09	5	.68	.04	.08	2
DK-36	6	63	2	33	.1	8	7	301	2.87	2	5	ND	1	64	.2	2	2	95	.52	.093	4	53	.38	61	.06	2	.72	.03	.06	1
DK-37	5	82	3	44	.1	10	9	360	4.01	2	5	ND	1	72	.2	2	2	135	.62	.116	7	55	.48	72	.08	3	.90	.03	.07	1
DK-38	6	56	2	34	.1	8	7	285	2.58	2	5	ND	1	72	.2	2	2	83	.53	.085	5	63	.38	70	.07	2	.77	.05	.09	2
STANDARD C	19	57	41	131	7.1	71	31	1052	3.98	36	24	7	38	53	18.5	15	22	56	.48	.095	36	55	.93	181	.07	34	1.89	.06	.14	11

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: PULP

DATE RECEIVED: SEP 24 1990 **DATE REPORT MAILED:** Sept 28/90 **SIGNED BY**.................D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
DK-40	6	52	9	33	.2	6	6	317	2.24	3	5	ND	1	74	.2	2	2	68	.56	.082	5	69	.35	68	.06	3	.77	.06	.10	2
DK-41	3	72	6	42	.2	15	13	384	9.37	6	5	ND	2	71	.2	2	2	314	.77	.172	8	103	.41	65	.08	7	.81	.03	.07	2
DK-42	4	57	5	30	.1	6	6	291	2.08	2	5	ND	1	67	.2	2	2	66	.52	.087	4	42	.37	62	.06	2	.71	.03	.07	2
DK-43	3	42	2	29	.2	7	6	251	2.70	2	5	ND	1	63	.2	2	2	87	.49	.076	4	47	.31	46	.06	2	.60	.03	.06	1
DK-44	4	47	2	27	.1	8	7	273	3.63	2	5	ND	1	69	.2	2	2	129	.56	.101	4	63	.31	54	.07	2	.63	.03	.06	1
DK-45	10	46	2	58	.1	20	19	1659	5.70	2	5	ND	1	208	.3	2	2	185	1.08	.239	10	115	.56	190	.11	2	.78	.06	.17	2
DK-46	7	76	3	71	.1	27	22	1114	6.60	5	5	ND	1	139	.3	6	2	216	.98	.262	12	98	.86	161	.12	2	.98	.03	.13	2
DK-49	4	40	2	46	.2	21	14	648	3.68	2	5	ND	1	140	.2	2	2	111	.84	.199	7	82	.71	148	.09	2	.67	.04	.17	2
DK-50	7	48	2	56	.2	27	18	845	5.35	3	5	ND	1	140	.2	4	2	159	.88	.204	8	97	.83	171	.12	2	.80	.03	.17	1
DK-51	7	41	2	45	.1	20	14	606	4.42	2	5	ND	1	179	.2	2	2	137	.83	.178	7	117	.63	178	.09	2	.69	.06	.18	1
DK-52	5	33	2	41	.1	18	12	660	3.79	2	5	ND	1	133	.2	2	2	112	.73	.178	6	76	.56	140	.08	2	.58	.03	.14	2
DK-53	9	33	2	42	.2	21	14	631	4.68	2	5	ND	1	107	.2	2	2	137	.78	.192	6	82	.63	90	.09	2	.66	.02	.09	2
DK-54	4	32	2	33	.1	16	11	519	3.50	2	5	ND	1	118	.2	2	2	105	.66	.160	6	70	.47	106	.07	2	.51	.03	.10	1
DK-55	4	34	2	32	.1	18	12	516	4.89	2	5	ND	1	105	.2	2	2	150	.61	.153	6	83	.44	98	.07	2	.51	.03	.09	1
DK-56	5	34	2	37	.2	21	13	526	6.09	2	5	ND	1	130	.2	6	2	175	.78	.162	6	125	.49	116	.07	2	.57	.05	.12	1
DK-57	5	45	5	38	.1	19	13	550	3.35	2	5	ND	1	139	.2	2	2	100	.78	.161	5	82	.69	143	.10	2	.77	.05	.15	2
DK-58	6	47	3	40	.1	18	12	552	3.16	2	5	ND	1	139	.2	2	2	92	.70	.132	5	79	.68	155	.11	2	.87	.06	.16	2
DK-59	10	112	7	79	.5	27	15	2896	3.03	2	5	ND	1	155	1.8	2	2	91	.74	.124	7	109	.17	227	.07	4	.61	.07	.20	1
DK-60	8	61	3	40	.1	13	9	1115	2.63	4	5	ND	1	119	.4	5	2	80	.46	.080	5	77	.22	138	.06	2	.53	.06	.15	1
DK-61	6	60	6	41	.1	16	11	858	3.25	2	5	ND	1	127	.2	2	2	100	.62	.112	6	84	.35	119	.07	2	.56	.06	.15	2
DK-62	8	70	5	45	.1	18	12	1129	3.52	3	5	ND	1	137	.2	2	2	107	.66	.108	6	101	.39	142	.08	2	.68	.07	.17	1
DK-63	6	57	2	37	.1	15	10	728	3.73	2	5	ND	1	115	.2	2	2	117	.59	.111	5	79	.31	102	.07	2	.54	.05	.13	1
DK-64	6	50	6	32	.1	12	8	678	2.31	2	5	ND	1	117	.2	2	2	72	.47	.084	4	71	.24	111	.05	2	.50	.06	.14	1
DK-65	6	56	2	36	.1	21	13	879	6.10	2	5	ND	1	122	.2	2	2	191	.66	.117	6	115	.27	100	.08	2	.50	.06	.12	2
DK-66	7	93	4	49	.3	21	14	1082	4.97	2	5	ND	1	131	.3	2	2	146	.82	.152	6	94	.44	115	.09	2	.71	.05	.13	2
DK-67	7	47	2	33	.1	14	9	630	3.81	2	5	ND	1	109	.2	2	2	119	.55	.097	6	83	.24	94	.06	2	.51	.05	.11	1
DK-68	7	63	2	34	.1	13	9	784	2.75	2	5	ND	1	117	.2	2	2	83	.54	.094	5	74	.27	116	.06	2	.57	.05	.13	1
DK-69	6	51	3	27	.1	11	8	627	2.60	2	5	ND	1	110	.2	2	2	79	.46	.082	4	71	.23	103	.05	2	.53	.06	.12	1
DK-70	7	58	2	37	.3	14	10	676	3.24	2	5	ND	1	127	.2	2	2	96	.59	.097	5	90	.32	116	.07	2	.64	.07	.15	2
DK-71	3	150	2	75	.3	34	26	835	6.68	2	5	ND	1	226	.2	2	2	176	1.30	.271	10	98	1.46	327	.16	4	1.31	.06	.38	1
DK-72	3	91	3	42	.3	24	16	528	6.77	2	5	ND	1	146	.2	2	2	176	.88	.156	6	112	.71	155	.10	3	.66	.05	.19	2
DK-73	4	98	5	46	.1	21	14	553	3.66	2	5	ND	1	157	.2	2	2	98	.84	.127	5	80	.86	201	.11	2	.82	.06	.25	2
DK-74	5	103	2	44	.1	23	15	506	4.27	2	5	ND	1	139	.2	2	2	114	.74	.131	4	96	.81	175	.10	2	.77	.04	.22	2
DK-75	5	117	2	46	.1	22	15	527	3.37	2	5	ND	1	137	.2	2	2	89	.67	.119	5	82	.85	195	.11	2	.84	.04	.23	2
DK-76	4	81	2	38	.1	24	15	437	7.37	2	5	ND	1	129	.3	2	2	205	.87	.168	7	135	.59	104	.08	3	.55	.04	.14	1
DK-77	3	81	3	36	.2	35	20	527	11.66	6	5	ND	1	116	.7	2	2	300	.75	.146	6	183	.54	107	.09	11	.55	.03	.14	1
STANDARD C	19	58	41	131	6.8	70	31	1051	3.96	37	17	7	38	53	18.4	15	18	56	.47	.094	37	56	.92	181	.07	32	1.89	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
DK-78	5	85	2	37	.1	17	13	444	3.81	2	5	ND	1	124	.2	2	2	97	.74	.132	6	90	.63	121	.08	2	.62	.04	.15	1
DK-79	5	160	4	62	.1	29	20	698	3.81	3	5	ND	1	149	.2	2	2	92	.79	.147	8	81	1.16	204	.14	3	1.11	.04	.27	1
DK-80	6	66	2	31	.2	20	14	486	6.89	3	5	ND	1	118	.2	2	2	177	.64	.112	6	145	.38	113	.07	5	.54	.05	.13	1
DK-81A	5	105	2	45	.2	24	16	505	5.59	2	5	ND	1	137	.2	5	2	139	.92	.191	9	114	.76	123	.10	4	.73	.04	.16	1
DK-81B	5	76	2	36	.1	17	12	461	4.22	2	5	ND	1	120	.2	2	2	109	.70	.139	7	91	.49	106	.07	3	.56	.04	.13	1
DK-82	5	101	2	44	.1	21	15	541	4.30	2	5	ND	1	125	.2	2	2	106	.69	.132	6	89	.70	137	.09	2	.73	.03	.16	1
DK-83	8	61	2	44	.1	15	10	459	4.84	2	5	ND	1	124	.2	2	2	128	.60	.094	5	131	.33	118	.06	4	.54	.06	.15	1
DK-84	4	96	2	47	.1	17	12	501	3.90	3	5	ND	1	91	.2	2	3	92	.71	.159	12	67	.56	130	.08	2	.77	.03	.14	2
DK-85	6	68	2	29	.1	13	9	431	3.48	2	5	ND	1	112	.2	2	2	91	.56	.095	5	96	.38	112	.06	2	.56	.05	.14	1
DK-86	5	85	2	34	.1	14	10	442	2.53	2	5	ND	1	115	.2	2	2	64	.51	.087	5	67	.51	124	.07	2	.66	.04	.15	1
DK-88	3	165	2	89	.1	39	23	615	4.18	18	5	ND	1	125	.4	3	2	122	1.24	.081	2	65	1.37	67	.18	5	3.54	.04	.06	1
DK-89	2	114	30	144	.3	51	18	512	4.01	10	5	ND	1	65	.9	2	2	105	.97	.076	3	95	1.65	45	.17	4	5.22	.03	.06	1
DK-90	4	101	4	104	.3	42	18	634	3.66	36	5	ND	1	91	.8	2	2	105	1.60	.061	2	83	1.40	46	.16	5	2.85	.08	.07	1
DK-91	4	96	5	101	.3	40	20	725	3.76	37	5	ND	1	84	.8	2	2	110	1.51	.057	3	81	1.39	44	.17	5	2.74	.08	.06	1
DK-92	4	100	6	56	.1	14	13	614	3.92	7	5	ND	1	86	.3	2	2	110	.97	.108	6	40	.79	75	.10	5	1.80	.04	.06	1
DK-93	6	75	4	58	.1	13	12	685	3.31	7	5	ND	1	96	.2	2	2	91	1.15	.095	6	69	.73	69	.11	5	1.70	.06	.07	1
DK-94	5	89	2	55	.2	12	13	719	3.43	10	5	ND	1	92	.2	2	2	96	1.07	.095	5	62	.70	70	.11	5	1.67	.05	.07	1
DK-95	5	90	2	58	.1	11	11	646	3.11	7	5	ND	1	86	.3	2	2	87	.96	.100	7	71	.65	75	.09	4	1.47	.06	.08	1
DK-96	3	84	2	49	.1	12	12	620	4.04	7	5	ND	1	76	.2	2	2	122	.85	.092	6	51	.60	60	.10	5	1.35	.04	.06	1
DK-97	4	74	2	44	.1	11	10	532	3.01	3	5	ND	1	74	.2	2	2	85	.87	.090	4	53	.59	57	.09	4	1.29	.05	.07	1
DK-98	4	89	3	43	.1	11	10	530	3.72	2	5	ND	1	70	.2	2	2	113	.78	.105	6	53	.56	59	.09	3	1.17	.04	.07	1
DK-99	4	82	2	42	.1	11	10	495	3.49	5	5	ND	1	72	.2	2	2	106	.79	.097	7	56	.56	60	.09	4	1.17	.05	.07	1
DK-101	6	83	2	39	.1	25	28	448	2.41	2	5	ND	1	76	.2	2	2	76	.62	.048	3	93	.50	38	.07	3	.92	.05	.11	2
DK-102	5	91	3	41	.1	29	31	619	2.71	2	5	ND	1	90	.2	2	2	81	.67	.058	3	78	.57	45	.07	2	.98	.03	.10	2
DK-103	5	74	2	36	.1	26	29	483	2.51	2	5	ND	1	95	.2	2	2	73	.73	.059	2	104	.63	46	.08	2	1.01	.04	.11	2
DK-105A	3	73	2	41	.1	30	22	419	2.42	4	5	ND	1	80	.2	2	2	71	.71	.056	2	96	.74	47	.08	2	1.03	.04	.12	1
DK-105B	5	89	2	41	.1	30	27	459	2.56	6	5	ND	1	92	.2	2	2	75	.80	.057	2	109	.78	52	.09	3	1.16	.05	.13	1
DK-106	5	84	2	43	.1	31	23	497	2.50	2	5	ND	1	92	.2	2	2	73	.79	.060	3	111	.78	55	.09	3	1.17	.05	.14	2
DK-107	5	84	2	48	.1	33	21	575	2.87	2	5	ND	1	92	.2	2	2	81	.82	.060	3	129	.80	55	.09	3	1.18	.05	.14	2
DK-108	6	78	4	46	.1	32	18	508	2.92	2	5	ND	1	95	.2	2	2	82	.82	.057	3	143	.79	57	.09	2	1.19	.05	.15	2
DK-109	4	68	2	42	.1	26	18	475	2.46	2	5	ND	1	85	.2	2	2	72	.70	.054	3	89	.64	48	.08	2	1.02	.04	.11	1
JDK-1	3	107	2	101	.2	32	22	821	3.58	2	5	ND	1	75	.2	2	2	67	.68	.068	2	73	1.77	76	.10	2	2.21	.03	.08	1
JDK-2	3	65	2	84	.2	24	20	814	3.73	2	5	ND	1	53	.3	2	2	70	.61	.059	2	63	1.92	51	.12	2	2.37	.03	.06	1
JDK-3	3	63	2	85	.2	25	20	773	3.77	2	5	ND	1	54	.3	2	2	71	.64	.057	2	73	1.86	53	.12	2	2.29	.03	.06	1
JDK-4	3	139	2	106	.4	41	27	944	4.46	2	5	ND	1	86	.3	2	3	79	.76	.073	2	98	2.01	88	.12	2	2.75	.03	.09	2
JDK-5	3	57	2	72	.1	22	18	681	3.54	2	5	ND	1	43	.2	2	2	68	.65	.055	2	61	1.76	37	.13	2	2.12	.02	.05	2
STANDARD C	19	59	36	131	6.8	71	31	1052	3.98	37	17	7	38	53	18.4	15	22	56	.47	.093	38	56	.92	181	.07	34	1.89	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
JO-78	12	321	3	69	.2	29	72	827	4.96	7	5	ND	1	179	.5	4	2	127	1.73	.088	2	67	1.27	59	.15	4	4.01	.06	.12	1
JO-79	11	356	2	68	.4	29	52	590	4.86	12	5	ND	1	209	.3	6	2	124	1.73	.098	3	59	1.21	65	.12	4	4.41	.05	.14	1
JO-80	7	125	7	86	.3	33	39	3549	4.81	18	5	ND	1	90	.6	5	5	128	.93	.084	5	92	1.11	186	.10	3	3.42	.04	.12	1
JO-81	4	115	2	55	.2	27	20	712	4.02	2	5	ND	1	95	.3	2	2	114	1.20	.076	2	82	1.36	70	.19	2	2.43	.08	.11	1
JO-82	4	102 ✓	2	49	.2	27	22	854	3.86	2	5	ND	1	96	.2	2	2	107	1.03	.072	2	66	1.37	64	.18	2	2.32	.06	.10	2
JO-83	3	88	2	52	.2	33	21	852	3.81	2	5	ND	1	87	.2	2	2	101	1.02	.071	2	70	1.48	55	.19	3	2.35	.06	.09	1
JO-84	3	86	9	48	.3	31	20	780	3.76	2	5	ND	1	92	.2	2	2	103	1.07	.070	2	72	1.44	57	.19	2	2.29	.07	.10	1
JO-85	3	88	2	49	.2	32	21	898	3.82	2	5	ND	1	93	.2	2	2	102	1.03	.071	2	74	1.44	63	.18	2	2.36	.07	.10	1
JO-86	3	91	3	46	.1	27	20	781	3.71	2	5	ND	1	95	.2	2	2	106	1.12	.070	2	67	1.36	63	.18	2	2.28	.07	.10	1
JO-87	4	92 ✓	3	44	.1	27	19	691	3.77	2	5	ND	1	101	.2	2	2	109	1.20	.070	2	77	1.31	64	.17	2	2.21	.08	.11	2
JO-88	4	102	3	54	.2	28	21	814	4.12	2	5	ND	1	103	.2	2	2	119	1.22	.069	2	82	1.33	66	.17	2	2.32	.08	.11	1
JO-89	4	168	2	80	.6	19	12	911	1.83	2	5	ND	1	124	.6	2	2	56	3.37	.119	4	119	.57	59	.03	8	1.71	.03	.05	1
JO-90	5	101	3	44	.1	24	19	785	3.56	2	5	ND	1	118	.2	2	2	107	1.25	.069	3	78	1.21	69	.16	2	2.19	.08	.11	2
JO-91	4	98	3	46	.1	25	17	951	3.76	16	5	ND	1	104	.3	2	2	112	.99	.078	3	89	1.09	71	.13	2	2.18	.07	.10	1
JO-92	3	87 ✓	2	44	.1	24	18	695	3.51	2	5	ND	1	106	.2	2	2	99	1.15	.067	2	72	1.24	66	.16	2	2.12	.08	.10	1
JO-93	2	91	5	48	.1	21	17	716	3.44	11	5	ND	1	104	.3	2	2	94	1.06	.070	2	50	1.21	66	.15	2	2.18	.07	.08	1
JO-94	6	116	7	67	.2	17	15	709	3.86	62	5	ND	1	150	.4	4	5	68	1.08	.089	3	71	1.07	155	.07	3	3.16	.07	.12	1
JO-95	3	119	2	51	.1	21	16	629	3.50	11	5	ND	1	113	.2	2	2	92	1.13	.080	2	60	1.14	77	.11	3	2.24	.05	.09	2
JO-96	4	109	2	45	.1	20	15	583	3.56	15	5	ND	1	110	.3	2	2	89	1.09	.072	2	59	1.21	85	.13	2	2.36	.07	.09	1
JO-97	4	107 ✓	2	49	.1	21	16	606	3.67	12	5	ND	1	121	.2	2	2	92	1.10	.069	2	63	1.21	81	.13	2	2.35	.07	.09	1
JO-98	3	89	5	48	.1	18	14	583	3.38	18	5	ND	1	108	.2	2	2	85	1.05	.073	2	52	1.23	76	.14	3	2.34	.08	.09	1
JO-99	3	96	2	45	.1	20	16	552	3.61	8	5	ND	1	102	.2	2	2	90	1.09	.070	2	55	1.20	66	.13	2	2.19	.07	.09	1
JO-100	3	75	4	34	.1	17	14	434	4.51	2	11	ND	10	91	.2	2	3	189	.67	.056	3	89	.56	48	.09	2	.97	.05	.10	1
JO-101	3	101	5	46	.2	23	17	575	6.50	2	5	ND	1	85	.4	3	3	271	.83	.080	4	116	.84	58	.11	2	1.28	.07	.15	1
JO-102	3	71 ✓	6	28	.3	14	11	401	2.43	2	5	ND	1	113	.2	2	2	88	.65	.050	3	57	.58	64	.08	2	1.10	.05	.10	2
JO-103	4	140	5	51	.2	24	18	549	4.08	2	5	ND	1	100	.2	2	2	146	.95	.090	5	88	1.19	81	.13	2	1.82	.08	.18	2
JO-104	4	107	2	41	.1	20	15	440	3.89	2	5	ND	1	92	.3	2	2	149	.88	.077	5	87	.93	64	.12	2	1.49	.08	.14	1
JO-105	5	76	2	30	.1	16	12	417	2.70	2	5	ND	1	109	.2	2	2	103	.79	.056	3	73	.66	61	.10	2	1.24	.07	.11	1
JO-106	4	99	10	41	.1	20	16	497	5.21	2	5	ND	1	96	.2	2	2	206	.93	.084	4	110	.86	60	.11	2	1.40	.08	.13	2
JO-107	3	61	2	27	.1	14	10	409	2.51	2	5	ND	1	98	.2	2	2	91	.76	.053	2	61	.56	49	.09	2	1.05	.05	.09	1
JO-108	3	73	3	30	.1	19	12	421	3.34	2	5	ND	1	91	.3	2	2	121	.88	.071	3	82	.72	53	.10	3	1.19	.07	.12	1
JO-109	3	75	2	40	.1	26	14	489	3.26	2	5	ND	1	88	.2	2	2	104	.90	.069	2	107	.95	62	.11	2	1.29	.06	.18	2
JO-110	5	82	5	43	.3	30	15	518	4.17	2	5	ND	1	88	.2	2	2	129	.98	.070	2	161	1.05	64	.12	2	1.37	.08	.20	2
JO-111	5	91	7	48	.2	33	17	621	3.89	2	5	ND	1	90	.2	2	2	117	.97	.071	2	150	1.14	73	.11	4	1.50	.07	.22	2
JO-112	4	77	5	40	.1	28	14	515	3.40	2	5	ND	1	86	.2	2	2	109	.97	.070	2	123	1.02	60	.12	2	1.33	.07	.20	1
JO-113	7	127 ✓	3	44	.1	3	8	612	3.39	2	5	ND	1	35	.2	2	3	87	.42	.084	6	58	.50	91	.05	4	1.09	.04	.09	2
STANDARD C	19	59	38	131	6.9	69	31	1049	3.95	37	23	7	39	53	18.3	15	22	57	.46	.094	38	56	.91	181	.07	35	1.89	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
JO-114	9	140	9	53	.5	4	5	511	2.15	3	12	ND	1	101	.2	2	2	57	1.33	.152	8	87	.29	160	.02	2	.79	.03	.09	2
JO-115	12	230	3	46	.1	4	8	942	2.76	2	5	ND	1	46	.2	2	2	80	.49	.083	8	59	.23	85	.03	2	.75	.03	.07	2
JO-116	11	347	3	67	.5	4	8	569	3.43	3	7	ND	1	66	.2	2	2	102	.75	.108	12	97	.32	89	.03	2	.89	.04	.10	1
JO-117	7	267	2	36	.2	3	8	606	3.13	2	6	ND	1	47	.2	2	2	99	.50	.083	6	57	.29	63	.04	2	.66	.03	.07	2
JO-118	9	184	2	34	.3	3	10	408	3.77	2	6	ND	1	55	.2	2	2	125	.56	.081	6	74	.24	61	.05	2	.63	.04	.09	1
JO-119	6	94	2	28	.1	2	6	347	2.56	2	5	ND	1	43	.2	2	2	85	.41	.068	4	52	.24	51	.05	2	.54	.04	.08	2
JO-120	6	148	2	38	.1	4	8	490	3.03	2	5	ND	1	62	.2	2	2	105	.51	.080	4	60	.27	68	.05	2	.65	.04	.10	2
JO-121	5	230	3	58	.3	4	10	587	2.80	2	5	ND	1	81	.2	2	2	110	.71	.107	7	51	.50	98	.07	2	1.14	.04	.12	1
JO-122A	8	271	4	61	.2	6	10	560	5.73	3	5	ND	1	87	.4	2	2	218	.78	.113	8	74	.38	90	.06	2	.88	.04	.15	1
JO-122B	5	145	4	36	.1	4	9	409	4.02	2	5	ND	1	75	.2	2	2	148	.65	.104	5	55	.48	80	.09	2	.84	.05	.13	2
JO-123	5	105	2	37	.1	3	6	371	2.09	3	5	ND	1	70	.2	2	2	73	.54	.075	4	50	.28	68	.05	2	.66	.04	.10	1
JO-124	5	148	4	53	.1	4	8	385	3.50	2	5	ND	1	81	.2	2	2	119	.61	.093	4	46	.42	67	.07	2	.88	.04	.09	1
JO-125	5	334	8	78	.2	4	7	353	2.56	2	5	ND	1	294	.2	2	2	82	.90	.127	9	45	.53	107	.06	2	1.17	.04	.12	1
JO-126	5	125	2	42	.1	4	8	350	4.30	2	5	ND	1	75	.2	2	2	157	.58	.092	6	43	.32	59	.06	2	.70	.04	.08	2
JO-127	8	51	2	37	.2	4	9	378	4.22	3	8	ND	1	77	.2	2	2	143	.77	.114	5	47	.50	50	.07	2	.83	.04	.08	2
JO-128	6	162	2	49	.1	4	9	456	3.49	2	5	ND	1	85	.2	2	2	128	.72	.105	6	56	.42	65	.07	2	.87	.05	.11	2
JO-129	6	118	2	39	.2	4	8	413	3.23	2	5	ND	1	82	.2	2	2	113	.63	.087	6	57	.34	68	.06	2	.78	.05	.11	2
JO-130	6	181	2	53	.1	5	11	495	5.90	2	5	ND	1	86	.7	2	2	225	.75	.107	7	53	.41	73	.07	3	.90	.04	.10	1
JO-131	5	108	2	38	.1	4	7	359	3.19	2	5	ND	1	71	.2	2	2	115	.60	.096	5	42	.35	57	.06	2	.76	.04	.08	2
JO-132	6	127	2	49	.1	5	8	400	3.33	2	5	ND	1	80	.2	2	2	118	.65	.100	5	55	.40	70	.07	2	.86	.05	.10	2
JO-133	6	76	2	33	.1	3	6	311	2.17	2	5	ND	1	72	.2	2	2	74	.56	.081	4	56	.31	63	.06	2	.77	.06	.10	1
JO-134	4	77	2	32	.1	4	6	299	2.71	2	5	ND	1	62	.2	2	2	98	.52	.079	4	36	.30	50	.06	2	.67	.04	.07	1
JO-135	5	75	2	38	.1	4	7	307	3.49	2	5	ND	1	67	.2	2	2	126	.54	.079	5	51	.30	59	.07	2	.74	.05	.09	1
JO-136	38	107	2	52	.5	5	9	863	3.40	2	5	ND	1	87	.2	2	2	80	.54	.102	14	87	.47	106	.04	2	1.06	.05	.11	1
JO-137	14	157	4	53	.3	7	16	1040	5.04	2	5	ND	1	62	.2	2	3	132	.53	.136	9	46	.89	89	.10	2	1.46	.03	.16	2
JO-138	16	36	11	40	.1	4	7	888	2.45	3	5	ND	1	59	.5	2	2	51	.41	.060	11	82	.30	83	.04	2	.79	.03	.09	2
JO-139	16	85	2	47	.1	6	10	943	3.64	3	5	ND	1	62	.8	2	2	94	.48	.089	11	69	.45	93	.06	2	.94	.03	.12	2
JO-140	16	241	9	80	4.0	9	15	1652	4.21	5	11	ND	1	146	.8	2	2	80	.97	.142	53	76	.87	279	.04	2	2.19	.03	.16	1
JO-141	16	63	2	45	.1	7	8	881	2.58	2	5	ND	1	52	.5	2	2	56	.37	.066	6	96	.38	93	.05	2	.91	.05	.14	2
JO-142	15	73	4	51	.2	6	11	828	4.95	3	5	ND	1	61	.2	2	3	134	.64	.109	11	49	.54	83	.05	2	1.01	.02	.08	2
JO-143	9	40	2	33	.1	4	6	454	2.36	2	5	ND	1	44	.2	2	2	56	.38	.065	5	59	.38	56	.04	2	.66	.03	.10	2
JO-144	7	57	2	30	.1	4	6	485	2.30	2	5	ND	1	40	.2	2	2	50	.37	.057	6	54	.36	90	.04	2	.68	.03	.08	2
JO-145	11	38	2	36	.1	5	6	453	2.20	2	5	ND	1	49	.2	2	2	50	.39	.057	5	103	.36	76	.05	2	.74	.05	.13	2
JO-146	15	38	2	36	.1	6	6	467	2.30	2	5	ND	1	59	.2	2	2	51	.42	.059	6	139	.38	91	.05	2	.85	.07	.16	1
JO-147	12	37	5	36	.1	5	6	458	2.03	2	5	ND	1	46	.2	2	2	43	.37	.058	5	99	.35	73	.04	2	.72	.05	.12	2
JO-148	7	45	3	28	.1	5	7	310	3.44	2	5	ND	1	30	.2	2	2	83	.30	.072	4	54	.41	42	.06	2	1.24	.02	.08	2
STANDARD C	19	58	42	131	6.9	70	31	1051	3.94	43	19	7	38	53	18.6	15	23	56	.47	.096	36	56	.95	181	.07	33	1.89	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
J0-149	8	52	2	32	.2	3	7	484	2.45	2	5	ND	1	54	.6	2	2	58	.52	.071	8	62	.36	81	.03	2	.77	.03	.08	2
J0-150	9	47	2	29	.2	3	7	475	2.51	3	5	ND	1	52	.2	2	2	62	.48	.065	7	88	.33	80	.04	2	.78	.04	.10	1
J0-151	6	70	2	35	.3	3	10	805	3.50	2	5	ND	1	29	.2	3	2	82	.28	.090	7	43	.45	59	.04	3	1.38	.02	.08	2
J0-152	11	36	2	32	.2	4	7	537	2.07	2	5	ND	1	51	.2	2	2	47	.43	.056	6	117	.34	84	.04	3	.83	.05	.12	2
J0-153	7	57	2	25	.2	3	7	391	2.76	2	5	ND	1	50	.2	2	2	67	.53	.073	6	59	.35	84	.04	4	.73	.04	.09	2
J0-154	15	145	4	54	.3	5	8	777	2.65	2	25	ND	1	80	.3	2	2	62	.70	.091	15	76	.41	110	.03	3	1.30	.03	.07	1
J0-155	18	128	2	65	.4	5	8	926	2.00	2	34	ND	1	86	.2	3	2	49	.94	.092	26	118	.32	127	.02	6	.98	.03	.08	1
J0-156	9	189	2	55	.5	3	12	1103	3.12	3	5	ND	4	34	.2	2	2	70	.30	.071	17	54	.42	116	.04	2	1.21	.02	.10	1
J0-157	3	216	2	59	.2	5	13	987	3.94	2	5	ND	1	14	.2	2	2	115	.19	.098	7	34	.67	67	.01	2	1.82	.02	.08	1
J0-158	6	172	2	73	.6	4	10	971	3.41	2	7	ND	2	69	.5	2	2	92	.75	.097	22	39	.46	120	.02	5	.96	.02	.07	1
J0-159	5	168	2	40	.3	1	7	630	2.19	2	5	ND	2	49	.2	2	2	66	.39	.060	9	52	.42	83	.02	3	.72	.03	.08	1
J0-160	6	203	5	35	.2	1	6	524	2.21	2	5	ND	1	50	.3	2	2	67	.41	.058	10	56	.38	83	.02	2	.67	.03	.08	1
J0-161	7	166	2	38	.3	2	9	613	2.90	2	5	ND	2	48	.2	2	2	84	.48	.074	8	63	.58	89	.06	3	.88	.04	.11	2
J0-162	8	275	2	48	.5	4	13	696	4.38	6	5	ND	1	54	.5	3	2	132	.54	.088	8	64	.72	83	.07	4	.98	.03	.12	2
J0-163	8	254	2	50	.5	4	11	673	3.81	4	5	ND	1	53	.2	4	2	114	.50	.080	8	61	.68	88	.07	7	.97	.04	.12	1
J0-164	9	447	2	69	.6	3	16	1035	4.87	7	5	ND	1	74	.6	4	2	137	.70	.109	14	53	.88	129	.07	2	1.33	.03	.12	2
J0-165	9	210	2	51	.4	3	9	612	2.86	2	5	ND	2	56	.6	3	2	84	.47	.073	8	76	.57	99	.06	3	.97	.05	.15	1
J0-166	7	188	3	37	.3	3	10	527	4.31	2	5	ND	1	54	.2	2	2	138	.49	.075	7	65	.51	78	.07	2	.86	.05	.12	1
J0-167	7	181	2	40	.2	3	9	530	3.12	5	5	ND	2	51	.2	2	2	96	.46	.073	7	58	.51	80	.06	3	.84	.04	.11	1
J0-168	5	158	2	40	.3	4	8	471	2.69	2	5	ND	2	51	.2	2	2	83	.46	.072	6	50	.47	69	.05	3	.79	.04	.10	1
J0-169	8	240	2	50	.3	4	10	623	3.68	6	5	ND	1	66	.2	3	2	109	.61	.093	10	66	.62	108	.05	2	1.13	.04	.11	1
J0-170	6	178	2	41	.2	4	8	535	2.50	3	5	ND	2	45	.5	2	2	75	.42	.069	7	43	.50	71	.05	3	.82	.03	.09	1
J0-171	6	175	3	42	.2	2	9	555	2.66	2	5	ND	1	48	.2	3	2	77	.43	.067	7	47	.50	78	.05	2	.83	.03	.10	1
J0-172	7	180	3	44	.2	2	10	585	2.92	2	5	ND	1	48	.4	2	2	88	.44	.068	7	55	.49	80	.05	4	.82	.03	.09	1
J0-173	8	160	2	38	.2	2	8	513	2.82	4	5	ND	1	58	.2	2	2	85	.50	.073	8	72	.46	84	.05	3	.86	.05	.11	2
J0-174	6	182	2	38	.2	1	9	578	2.79	2	5	ND	2	53	.2	3	2	83	.49	.072	8	46	.49	83	.05	2	.87	.03	.09	1
J0-175	11	67	2	36	.2	3	7	469	3.46	2	5	ND	1	56	.2	2	2	82	.51	.076	7	84	.38	90	.04	2	.88	.04	.10	1
J0-176	9	39	2	28	.1	3	6	410	3.04	2	5	ND	1	50	.2	3	2	80	.46	.064	5	81	.31	70	.05	5	.70	.05	.10	1
J0-177	9	105	3	42	.1	2	9	553	3.69	2	5	ND	1	58	.5	2	2	93	.58	.087	8	57	.42	92	.04	3	.94	.03	.08	1
J0-178	12	60	2	44	.2	2	7	466	2.68	2	5	ND	1	64	.2	2	2	68	.53	.072	6	107	.36	92	.05	4	.88	.06	.13	1
J0-179	9	106	2	44	.2	5	11	532	5.84	3	5	ND	1	70	.3	3	2	162	.68	.107	10	70	.43	93	.05	3	.94	.03	.09	2
J0-180	8	105	2	250	.2	3	9	914	3.50	2	5	ND	1	69	.8	2	2	95	.65	.087	8	53	.38	95	.05	3	1.00	.04	.08	1
J0-181	8	227	7	401	.3	4	10	1121	3.85	3	5	ND	1	101	2.0	2	4	92	1.13	.119	15	48	.44	145	.03	3	1.46	.03	.07	1
J0-182	5	95	2	31	.1	1	6	414	2.25	3	5	ND	1	49	.2	2	2	67	.42	.060	5	47	.36	68	.05	2	.69	.03	.08	1
J0-183	5	76	2	28	.1	2	7	374	2.86	2	5	ND	2	50	.2	2	4	88	.44	.064	6	56	.33	65	.05	3	.67	.04	.09	1
J0-184	5	72	2	26	.1	3	7	380	3.01	2	5	ND	1	49	.2	2	2	96	.45	.066	6	52	.32	64	.05	2	.66	.04	.08	1
STANDARD C	19	59	39	131	7.0	70	31	1059	4.00	40	18	7	37	53	18.5	15	20	56	.52	.096	36	58	.91	180	.07	36	1.90	.06	.13	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
JO-185	5	91	3	37	.1	3	7	422	2.43	3	5	ND	1	54	.2	2	2	73	.42	.070	5	48	.39	74	.06	2	.74	.04	.09	1
JO-186	6	74	5	30	.1	4	6	363	2.34	2	5	ND	1	64	.2	2	2	74	.48	.072	6	60	.35	71	.07	2	.75	.05	.11	1
JO-187	8	101	3	43	.1	5	8	436	2.94	2	5	ND	2	71	.2	2	2	91	.53	.085	6	80	.44	95	.07	2	.93	.06	.13	2
JO-188	24	293	10	66	.7	5	8	1049	2.36	12	35	ND	1	106	.2	2	2	58	1.24	.197	23	56	.49	143	.03	7	1.80	.03	.07	1
JO-189	17	266	6	97	.3	7	10	2809	2.87	10	75	ND	1	110	.3	2	2	68	1.36	.161	12	99	.31	191	.05	8	1.35	.04	.10	1
JO-190	25	176	11	68	.3	11	10	1716	3.30	7	28	ND	1	84	.3	2	2	117	.91	.124	10	79	.39	137	.05	4	1.58	.03	.06	1
JO-191	8	141	6	62	.2	7	17	499	5.45	3	5	ND	3	155	.2	2	2	169	.96	.189	11	87	1.23	152	.25	2	1.65	.07	.17	1
JO-192	7	166	6	89	.3	14	12	778	5.41	5	5	ND	1	100	.2	2	2	200	1.13	.139	14	86	.67	103	.09	7	1.48	.03	.06	1
JO-193	7	87	2	43	.1	18	9	560	3.55	4	5	ND	1	37	.2	2	2	131	.56	.124	10	90	.63	53	.07	3	.86	.04	.05	2
JO-194	7	102	2	45	.1	21	10	607	4.69	2	5	ND	1	54	.2	2	2	194	.66	.137	9	110	.58	70	.09	4	1.01	.04	.06	2
JO-195	6	181	2	56	.2	19	12	737	5.12	2	5	ND	1	74	.5	2	2	195	.91	.159	14	96	.68	110	.08	4	1.39	.03	.06	1
JO-196	7	207	4	64	.2	21	11	640	4.89	4	5	ND	1	78	.4	2	2	193	.94	.168	16	113	.69	120	.07	4	1.43	.03	.08	1
JO-197	3	245	7	53	.6	21	11	575	3.21	4	105	ND	1	64	.2	2	2	108	.72	.139	27	80	.77	104	.08	2	1.36	.03	.07	1
JO-198	7	106	2	44	.1	24	10	544	4.46	2	5	ND	2	52	.2	2	2	196	.63	.116	8	146	.67	73	.11	5	1.01	.06	.09	1
JO-199	6	93	3	46	.1	30	11	521	5.12	2	5	ND	2	42	.2	2	2	245	.57	.113	7	148	.68	58	.11	5	.91	.04	.06	2
JO-200	6	107	2	45	.1	25	10	505	4.41	2	5	ND	1	53	.2	2	2	189	.64	.125	8	128	.69	77	.10	5	1.02	.05	.08	1
JO-201	6	114	2	47	.1	26	11	496	5.26	2	5	ND	1	51	.2	2	2	234	.65	.132	9	136	.67	71	.10	5	1.02	.05	.07	1
JO-203	7	78	2	31	.1	16	8	352	2.96	2	5	ND	1	53	.2	2	2	121	.56	.092	7	108	.50	68	.09	4	.84	.07	.10	1
JRG-1	4	61	7	98	.3	33	20	941	4.14	19	5	ND	1	35	.5	2	2	79	.68	.064	3	105	2.03	54	.11	2	3.06	.03	.06	1
JRG-2	5	45	2	89	.1	36	22	1066	4.40	8	5	ND	1	38	.3	2	2	86	.71	.044	2	115	2.36	41	.21	2	3.03	.04	.06	1
JRG-3	5	42	2	98	.2	29	22	981	4.80	15	5	ND	1	59	.6	2	2	87	.75	.048	2	102	2.42	40	.23	2	3.24	.05	.06	1
JRG-4	3	36	2	87	.1	28	22	1050	4.52	11	5	ND	1	49	.5	2	2	81	.65	.047	2	80	2.37	36	.22	2	3.01	.04	.04	1
JRG-5	4	42	2	88	.1	27	21	1074	4.88	13	5	ND	1	40	.3	2	2	78	.49	.049	2	85	2.39	38	.18	2	3.07	.03	.05	1
JRG-6	3	64	2	118	.1	26	25	930	4.81	16	5	ND	1	39	.4	2	2	77	.44	.052	2	70	2.25	39	.16	2	2.88	.02	.04	1
JRG-7	5	70	2	133	.1	30	24	794	4.89	16	5	ND	1	49	.4	2	2	79	.50	.052	2	99	2.31	45	.15	2	3.09	.03	.05	1
JRG-8	4	55	4	135	.1	32	26	1021	4.75	13	5	ND	1	38	.6	2	2	85	.51	.052	2	95	2.45	49	.18	2	3.05	.04	.06	1
JRG-9	3	79	2	113	.1	33	22	801	4.59	5	5	ND	1	43	.2	2	3	84	.55	.054	2	89	2.18	59	.14	2	3.14	.02	.06	1
JRG-10	5	74	6	100	.1	14	19	772	3.74	2	5	ND	1	42	.2	2	2	80	.60	.050	2	55	1.66	89	.15	2	2.30	.05	.14	1
JRG-11	5	77	2	98	.1	27	21	981	4.73	6	5	ND	1	44	.2	2	2	93	.66	.050	2	92	2.25	67	.16	2	3.00	.05	.10	1
JRG-12	4	61	2	84	.3	30	20	956	4.68	5	5	ND	1	48	.3	2	2	96	.77	.055	2	97	2.32	66	.20	2	3.14	.06	.09	1
JRG-13	4	58	2	84	.2	30	22	939	4.82	6	5	ND	1	55	.2	3	2	104	.93	.058	2	101	2.37	55	.22	2	3.26	.07	.08	1
JRG-14	3	81	2	96	.2	31	23	1105	5.18	13	5	ND	1	56	.4	3	3	109	.83	.056	2	92	2.34	89	.18	2	3.42	.06	.13	1
JRG-15	3	74	2	112	.1	30	27	1485	4.97	22	5	ND	1	62	.8	2	2	93	.87	.077	3	96	2.23	50	.12	2	3.71	.02	.03	1
JRG-16	7	99	4	176	.1	31	28	910	4.34	9	5	ND	1	51	.6	2	3	92	.72	.068	2	122	1.93	109	.08	2	3.01	.05	.17	1
JRG-17	7	64	2	120	.1	35	34	1922	4.76	13	5	ND	1	40	.6	2	3	101	.59	.058	2	131	2.09	93	.11	2	2.90	.05	.08	1
JRG-18	4	44	2	88	.1	27	23	1139	4.08	7	5	ND	1	31	.2	2	2	91	.52	.050	2	84	1.91	69	.11	2	2.44	.05	.07	1
STANDARD C	19	59	39	132	7.1	72	31	1052	3.97	37	20	7	39	52	18.3	14	21	56	.47	.096	39	57	.93	182	.07	33	1.89	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
JRG-91	10	119	2	62	.4	16	19	611	3.10	5	5	ND	2	89	.2	2	2	59	.70	.068	4	121	1.01	182	.09	2	1.73	.06	.14	1
JRG-92	7	39	3	39	.1	8	11	469	1.76	2	5	ND	1	70	.2	2	2	34	.38	.045	3	80	.53	107	.06	2	.89	.04	.07	2
JRG-93	5	153	2	59	.3	17	22	649	3.30	3	5	ND	1	88	.2	2	2	62	.67	.075	4	66	1.11	181	.09	2	1.77	.04	.13	1
JRG-94	10	60	2	45	.1	12	15	633	2.21	2	5	ND	1	81	.2	2	2	42	.47	.047	4	123	.71	150	.07	2	1.22	.05	.09	2
JRG-96	6	104	3	55	.3	14	17	568	2.95	3	5	ND	1	90	.2	2	2	55	.59	.068	4	77	.98	194	.08	2	1.59	.04	.10	1
JRG-97	8	30	2	36	.1	9	10	461	1.86	2	5	ND	1	66	.2	2	2	35	.37	.038	3	96	.66	103	.06	2	1.02	.04	.06	1
JRG-98	5	40	2	40	.1	10	9	365	2.00	2	5	ND	1	62	.2	2	2	38	.40	.043	3	66	.72	117	.06	2	1.05	.03	.06	1
RG-1	12	218	19	150	.4	9	10	706	3.15	4	5	ND	1	155	1.0	2	2	75	.99	.071	3	52	.70	42	.07	5	1.78	.04	.11	2
RG-2	10	998	4	100	1.3	14	17	716	3.24	5	5	ND	1	149	.2	2	2	77	.94	.092	3	77	1.00	36	.10	4	1.79	.05	.13	1
RG-3	11	354	28	130	.5	9	15	789	3.20	4	5	ND	1	226	.5	2	2	79	1.14	.093	2	56	.98	37	.10	3	2.15	.05	.15	1
RG-4	7	264	19	110	.4	8	13	670	2.75	6	5	ND	1	251	.4	2	2	67	1.35	.082	2	43	.85	40	.08	2	2.46	.06	.13	1
RG-5	8	227	12	112	.3	9	12	660	3.09	5	5	ND	1	216	.2	2	2	77	1.17	.090	3	68	.88	43	.11	2	2.02	.07	.14	1
RG-6	7	137	6	90	.2	8	11	612	3.11	3	5	ND	1	177	.2	2	2	81	1.01	.088	3	65	.78	42	.11	3	1.60	.06	.13	1
RG-7	6	154	3	87	.2	8	10	590	2.79	3	5	ND	1	174	.2	2	2	70	.94	.083	3	46	.79	43	.09	3	1.64	.05	.11	1
RG-8	6	160	3	92	.3	10	11	613	2.80	3	5	ND	1	173	.2	2	2	69	.97	.084	3	51	.85	48	.09	3	1.73	.05	.12	1
RG-9	6	111	4	73	.3	11	10	550	3.08	4	5	ND	1	149	.2	2	2	78	.90	.085	3	73	.81	42	.11	2	1.41	.05	.13	1
RG-10	5	122	2	80	.2	16	11	550	2.99	3	5	ND	1	138	.2	2	2	70	.87	.087	2	74	1.02	49	.10	2	1.51	.04	.12	1
RG-11	5	97	3	75	.1	13	10	548	2.83	2	5	ND	1	136	.2	2	2	69	.83	.086	2	67	.92	46	.10	3	1.39	.05	.13	1
RG-12	4	121	2	75	.3	15	11	505	2.90	5	5	ND	1	125	.2	2	2	68	.78	.083	3	62	.92	46	.08	3	1.33	.03	.11	1
RG-13	5	109	3	68	.1	12	10	535	2.68	2	5	ND	1	123	.2	2	2	65	.76	.081	2	51	.86	44	.10	2	1.31	.04	.11	1
RG-14	6	103	3	69	.2	14	11	518	2.93	3	5	ND	1	121	.2	2	2	71	.77	.081	2	68	.87	45	.10	2	1.27	.04	.12	1
RG-15	5	102	3	67	.1	13	11	538	2.84	3	5	ND	1	114	.2	2	3	68	.73	.078	3	56	.87	44	.09	2	1.26	.03	.11	1
RG-16	5	92	2	62	.1	13	10	519	2.70	2	5	ND	1	111	.2	2	2	67	.74	.080	3	62	.85	46	.10	2	1.20	.04	.12	1
RG-17	6	89	3	68	.1	12	10	534	2.71	2	5	ND	1	112	.2	2	2	67	.76	.081	3	65	.85	46	.10	2	1.20	.04	.12	1
RG-18	5	71	2	58	.1	12	9	489	2.73	2	5	ND	1	105	.2	2	2	68	.73	.079	3	72	.83	44	.11	3	1.09	.05	.13	1
RG-19	5	71	3	58	.1	12	9	493	2.83	2	5	ND	1	109	.2	2	2	71	.75	.079	4	71	.84	44	.11	3	1.10	.04	.13	1
RG-20	6	82	2	59	.1	13	9	517	2.72	2	5	ND	1	107	.2	2	2	69	.74	.082	4	66	.86	49	.11	2	1.22	.05	.13	1
RG-21	4	76	2	34	.1	17	8	354	4.72	2	5	ND	3	45	.2	2	2	196	.52	.102	8	97	.50	56	.10	4	.78	.04	.06	1
RG-22	4	69	2	38	.1	10	6	320	2.70	2	5	ND	3	50	.2	2	3	79	.59	.106	7	63	.55	53	.07	5	.83	.05	.07	2
RG-23	4	62	2	36	.1	10	6	289	2.73	2	5	ND	2	43	.2	2	2	93	.50	.094	7	56	.48	48	.06	4	.72	.04	.06	1
RG-24	4	71	2	37	.1	10	6	291	2.38	2	5	ND	2	50	.2	2	2	72	.51	.092	6	55	.53	60	.07	4	.82	.04	.07	1
RG-25	4	102	2	38	.1	5	7	328	2.82	2	5	ND	2	74	.2	2	2	92	.57	.102	7	37	.47	56	.06	2	.81	.03	.07	1
RG-26	7	84	2	41	.1	6	7	329	2.46	2	5	ND	2	89	.2	2	3	74	.59	.082	7	74	.50	73	.06	4	.92	.06	.11	2
RG-27	5	65	2	33	.1	8	6	319	2.79	2	5	ND	3	54	.2	2	2	94	.51	.087	6	59	.47	54	.07	4	.76	.05	.08	1
RG-28	5	70	2	38	.1	7	6	308	2.38	2	5	ND	2	61	.2	2	2	72	.52	.082	6	65	.49	67	.06	4	.85	.05	.09	1
STANDARD C	19	61	39	131	6.7	70	31	1054	3.97	36	19	7	40	53	18.4	15	21	60	.48	.099	39	58	.95	182	.08	38	1.90	.06	.14	13

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
RG-29A	4	66	5	39	.1	10	8	381	3.51	2	5	ND	4	52	.2	2	2	120	.58	.096	7	63	.45	52	.08	8	.84	.04	.08	1
RG-29B	3	61	2	39	.1	11	8	382	3.86	2	5	ND	3	50	.2	4	2	140	.58	.101	7	64	.45	48	.08	8	.80	.04	.07	1
RG-30	4	68	2	37	.2	9	7	366	2.75	3	5	ND	3	63	.2	2	2	84	.55	.080	7	62	.45	68	.07	7	.92	.05	.09	1
RG-31	10	71	6	59	.3	12	8	461	3.79	5	6	ND	5	76	.2	2	2	121	.74	.104	9	144	.49	80	.10	9	1.12	.10	.15	1
RG-32	4	66	3	40	.1	13	9	394	4.82	6	5	ND	3	52	.2	2	2	195	.56	.097	7	69	.42	51	.09	7	.82	.04	.07	1
RG-33	4	71	2	44	.2	12	8	381	4.28	6	5	ND	3	54	.2	2	2	168	.54	.083	7	69	.43	56	.09	6	.85	.04	.08	1
RG-34	4	66	3	33	.1	9	7	353	2.80	2	5	ND	3	59	.2	2	2	86	.61	.094	7	60	.44	56	.07	6	.90	.05	.09	1
RG-35	3	60	2	34	.1	7	6	332	2.22	4	5	ND	3	52	.2	2	2	61	.55	.086	6	41	.41	51	.06	6	.82	.04	.06	1
RG-36	4	61	4	35	.2	9	7	350	3.03	2	5	ND	3	54	.2	2	2	99	.56	.093	7	57	.43	55	.07	8	.85	.04	.07	1
RG-37	4	62	2	34	.2	8	7	349	2.30	7	7	ND	5	59	.2	2	2	64	.56	.081	7	53	.42	58	.06	6	.86	.05	.09	1
RG-38	4	86	3	46	.1	14	10	425	5.82	2	6	ND	5	62	.2	2	2	214	.80	.178	12	90	.46	61	.10	5	.95	.04	.08	1
RG-39	7	72	3	40	.2	13	9	419	4.52	3	5	ND	4	66	.2	2	2	161	.71	.120	9	107	.46	67	.10	7	.97	.06	.10	1
RG-40	3	60	2	36	.2	12	9	406	4.70	2	5	ND	3	49	.2	2	2	180	.60	.099	7	70	.44	45	.09	7	.81	.04	.07	1
RG-41	4	67	2	39	.2	17	11	412	7.94	4	5	ND	3	46	.2	2	2	340	.59	.119	8	91	.39	43	.10	5	.75	.03	.05	1
RG-42	3	60	3	38	.1	10	8	378	3.29	3	5	ND	3	52	.2	2	2	109	.60	.090	6	57	.48	48	.08	8	.89	.04	.06	1
RG-43	12	85	4	48	.3	18	11	433	6.63	8	9	ND	4	64	.2	2	2	240	.88	.188	13	176	.51	61	.10	6	1.02	.04	.08	1
RG-44	4	69	2	37	.2	11	8	375	2.98	3	5	ND	3	59	.2	2	2	92	.65	.097	7	61	.49	58	.08	6	.98	.04	.07	1
RG-45	5	63	5	43	.3	15	8	387	2.72	7	10	ND	3	62	.2	2	2	81	.69	.083	7	78	.53	61	.08	7	1.03	.05	.09	1
RG-46	3	68	3	35	.1	15	9	382	2.62	9	5	ND	2	55	.2	2	2	73	.68	.080	6	62	.60	53	.07	7	1.09	.04	.07	1
RG-47	4	63	3	37	.1	19	9	426	2.44	9	5	ND	3	67	.2	2	2	60	.72	.069	5	73	.72	63	.07	7	1.27	.06	.08	1
RG-48	3	62	5	44	.1	21	9	414	2.74	7	5	ND	2	48	.2	2	2	71	.68	.076	5	60	.82	42	.08	7	1.23	.04	.07	1
RG-49	5	66	5	45	.2	21	11	449	4.55	10	5	ND	3	59	.2	2	2	152	.76	.122	9	100	.75	53	.10	9	1.23	.05	.07	1
RG-50	3	60	4	44	.2	24	12	451	5.32	9	5	ND	3	45	.2	2	2	203	.67	.091	6	80	.78	43	.10	6	1.15	.03	.06	1
RG-51	3	59	4	45	.1	22	12	462	5.82	10	5	ND	3	47	.2	2	2	223	.63	.084	6	82	.77	43	.10	7	1.16	.03	.06	1
RG-52	3	63	4	42	.2	20	11	435	4.79	5	5	ND	2	50	.2	2	2	162	.67	.104	7	75	.74	45	.09	7	1.14	.03	.05	1
RG-53	4	60	5	36	.3	18	9	375	3.70	11	5	ND	2	47	.2	2	2	120	.61	.091	7	73	.66	45	.08	7	1.06	.04	.06	1
RG-54	5	399	9	70	.2	55	30	843	12.35	6	5	ND	2	182	.6	2	2	301	1.25	.314	14	218	1.20	154	.17	2	1.07	.04	.30	1
RG-55	4	134	4	48	.2	44	21	563	7.35	4	5	ND	1	149	.2	2	2	188	1.06	.207	9	183	1.16	180	.15	3	.82	.04	.34	1
RG-56	4	146	2	42	.1	40	21	521	9.90	7	5	ND	1	127	.4	2	2	253	.95	.192	8	193	.68	90	.10	2	.50	.03	.17	1
RG-57	9	366	3	58	.4	29	16	543	4.67	4	5	ND	2	155	.2	2	2	126	1.11	.212	10	132	.87	126	.11	5	.70	.04	.20	1
RG-58	7	329	7	75	.5	47	22	650	6.42	17	5	ND	1	174	.2	2	2	158	1.29	.226	11	189	1.23	184	.15	5	1.06	.05	.36	1
RG-59	6	160	7	60	.3	31	15	494	5.08	7	6	ND	2	145	.3	2	2	134	1.01	.163	9	173	.81	119	.10	6	.71	.05	.26	1
RG-60	3	190	6	53	.3	35	17	476	6.13	7	6	ND	1	125	.2	2	2	160	.90	.172	9	154	.81	112	.11	5	.69	.03	.24	1
RG-61	4	103	3	46	.3	37	17	466	6.87	7	5	ND	2	156	.2	2	2	179	.96	.193	10	192	.83	131	.10	5	.65	.04	.21	1
RG-62	3	126	5	59	.3	38	16	536	3.68	8	5	ND	1	189	.2	2	2	95	.77	.156	9	120	1.17	191	.14	5	1.01	.03	.32	1
RG-63	5	137	6	56	.3	33	15	468	4.78	6	5	ND	1	156	.2	2	2	127	.81	.140	9	152	.85	134	.11	5	.78	.04	.25	1
STANDARD C	18	63	39	129	7.1	72	31	1054	3.96	39	23	7	40	56	19.4	15	18	58	.48	.093	39	59	.91	182	.07	40	1.91	.06	.13	12

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
RG-64	5	128	3	72	.5	23	12	448	3.50	4	5	ND	1	148	.3	2	2	94	.82	.136	8	120	.67	131	.08	10	.71	.05	.23	2
RG-65	3	131	2	56	.6	25	13	406	3.59	2	5	ND	1	130	.2	2	3	94	.74	.135	8	105	.69	116	.08	7	.67	.04	.21	1
RG-66	4	163	2	47	.6	26	15	443	6.17	2	5	ND	1	129	.4	2	2	169	.79	.132	7	145	.53	107	.08	7	.56	.05	.19	1
RG-67	4	177	9	54	.5	22	13	424	3.33	4	5	ND	1	143	.4	3	4	87	.67	.119	7	104	.69	139	.08	4	.72	.05	.26	1
RG-68	3	104	7	48	.4	41	22	566	13.37	7	5	ND	1	94	.2	2	2	361	.65	.116	5	228	.38	88	.08	4	.38	.03	.14	3
RG-69	4	150	5	53	.4	23	12	409	3.42	2	5	ND	1	137	.6	2	2	89	.70	.118	7	108	.69	132	.09	5	.70	.05	.24	1
RG-70	5	119	5	48	.4	18	10	368	3.15	3	5	ND	1	126	.5	3	2	86	.71	.118	7	106	.52	110	.07	6	.60	.05	.21	2
RG-71	3	132	2	47	.4	17	11	387	2.76	3	5	ND	1	120	.3	2	2	73	.59	.118	8	77	.55	117	.07	4	.63	.04	.21	2
RG-72	4	119	2	49	.6	23	13	411	4.88	3	5	ND	1	118	.5	2	3	127	.61	.113	7	127	.51	113	.07	5	.58	.05	.20	2
RG-73	3	124	4	45	.3	17	10	376	2.73	2	5	ND	1	122	.4	2	2	73	.60	.111	7	78	.54	116	.07	4	.58	.04	.19	1
RG-74	3	117	7	45	.3	36	18	455	9.23	2	5	ND	1	98	.2	2	3	229	.61	.117	6	201	.48	88	.07	3	.50	.03	.16	1
RG-75	7	100	2	46	.4	18	13	506	4.81	2	5	ND	1	97	.6	2	3	128	.66	.108	8	124	.45	99	.07	6	.71	.05	.13	1
RG-76	5	140	9	48	.5	20	11	408	2.89	2	5	ND	1	127	.6	3	2	76	.67	.117	7	95	.64	130	.08	7	.69	.05	.22	2
RG-77	4	135	4	49	.4	22	12	438	3.91	4	5	ND	1	124	.5	3	2	101	.58	.104	6	107	.58	135	.08	7	.67	.05	.22	1
RG-78	4	108	2	42	.4	18	11	350	3.95	4	5	ND	1	105	.2	3	3	103	.66	.117	7	110	.49	94	.06	6	.52	.04	.16	2
RG-79	3	131	2	50	.3	30	15	436	6.22	2	5	ND	1	102	.3	2	3	161	.65	.120	7	143	.57	106	.08	8	.58	.04	.18	2
RG-80	4	116	7	43	.3	30	15	423	6.35	4	5	ND	1	96	.4	2	2	161	.67	.129	7	146	.57	99	.08	5	.56	.03	.18	1
RG-81	4	138	2	81	.6	31	23	936	3.96	5	5	ND	1	173	.5	4	2	98	.87	.163	8	75	1.36	373	.16	6	1.29	.06	.42	1
RG-82	4	61	4	43	.3	17	16	576	8.19	2	5	ND	1	134	.2	2	2	234	.71	.136	7	107	.41	159	.07	5	.54	.06	.18	1
RG-83	3	75	3	42	.3	16	14	586	4.35	3	5	ND	1	144	.2	2	2	118	.75	.139	7	75	.57	186	.08	4	.64	.05	.20	2
RG-84	2	68	2	46	.5	26	26	714	15.65	2	5	ND	1	129	.2	3	2	436	.78	.196	8	121	.38	124	.08	4	.44	.04	.13	2
RG-85	2	76	3	43	.2	14	14	545	5.79	3	5	ND	1	125	.2	2	5	163	.70	.151	7	71	.46	155	.07	6	.55	.04	.17	2
RG-86	3	68	3	41	.3	19	14	471	5.16	9	6	ND	1	79	.2	4	2	196	.87	.064	4	129	.59	46	.09	5	1.02	.06	.11	2
RG-87	3	59	2	36	.3	20	13	417	4.09	7	5	ND	1	74	.2	3	2	145	.87	.060	4	127	.59	44	.09	6	1.01	.06	.12	1
RG-88	4	62	3	43	.3	18	12	441	3.43	8	6	ND	2	85	.2	3	2	120	1.00	.065	4	111	.67	52	.10	6	1.13	.08	.15	1
RG-89	3	63	2	42	.2	19	12	416	3.27	6	6	ND	1	83	.3	3	4	112	.91	.064	4	95	.67	51	.09	5	1.13	.07	.14	2
RG-90	4	69	3	47	.4	19	13	438	3.31	7	7	ND	1	93	.3	3	4	109	1.07	.069	4	107	.74	55	.10	6	1.25	.08	.15	3
RG-91	3	54	2	37	.3	14	10	387	2.59	6	5	ND	1	90	.2	4	2	88	.79	.057	4	72	.58	76	.09	5	1.07	.07	.11	1
RG-92	3	54	7	30	.1	13	11	362	2.39	5	5	ND	1	87	.5	3	2	80	.74	.057	3	66	.55	54	.08	6	1.02	.06	.11	1
RG-93	2	57	3	43	.1	34	15	473	6.46	6	5	ND	1	70	.2	2	2	223	.79	.061	4	174	.56	44	.09	4	.96	.06	.11	2
RG-94	4	54	6	37	.3	18	12	412	3.67	5	5	ND	1	91	.2	4	2	124	.97	.059	4	123	.64	56	.10	7	1.15	.08	.15	3
RG-95	4	51	3	37	.3	17	10	369	2.63	5	6	ND	1	84	.3	3	2	86	.85	.059	3	82	.61	53	.09	5	1.08	.07	.13	2
RG-96	3	53	4	38	.1	19	12	397	3.60	6	5	ND	1	74	.4	3	2	117	.85	.065	4	106	.63	48	.09	8	1.02	.06	.12	2
RG-97	2	50	6	34	.1	15	10	359	2.48	6	5	ND	1	76	.5	3	2	80	.71	.059	4	68	.56	51	.08	6	.96	.06	.11	1
RG-98	4	47	2	36	.2	18	10	365	2.66	4	5	ND	1	81	.2	4	2	83	.91	.059	3	92	.65	52	.09	4	1.07	.08	.14	1
RG-99	3	54	3	36	.2	16	10	360	2.41	7	7	ND	1	84	.4	5	2	77	.73	.058	4	77	.59	59	.08	5	1.05	.07	.13	1
STANDARD C	19	61	35	135	7.4	71	32	1059	4.00	42	18	8	38	50	18.4	16	21	57	.51	.094	38	61	.90	182	.08	39	1.90	.07	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
RG-100	3	60	2	31	.2	18	10	375	2.55	3	5	ND	1	94	.2	2	2	80	.78	.056	4	78	.64	54	.10	7	1.12	.06	.11	1
RG-101	2	66	2	34	.2	20	11	397	3.09	9	5	ND	1	92	.2	2	2	98	.81	.061	4	87	.71	56	.10	6	1.19	.06	.12	1
RG-102	2	62	2	31	.2	20	11	408	3.54	10	5	ND	1	89	.2	2	2	116	.83	.062	4	98	.69	53	.10	7	1.18	.06	.12	1
RG-103	2	55	2	31	.1	18	10	378	2.87	3	5	ND	1	92	.3	2	2	92	.81	.060	4	84	.67	55	.10	6	1.15	.06	.11	1
RG-104	4	54	3	33	.3	18	10	392	2.70	6	5	ND	1	106	.2	2	2	84	.83	.058	4	92	.69	63	.10	7	1.22	.07	.13	1
RG-105	3	56	2	32	.1	19	10	388	2.46	2	5	ND	1	106	.2	2	2	75	.81	.055	4	84	.68	63	.10	6	1.23	.07	.13	1
RG-106	3	55	2	32	.2	21	11	416	3.90	5	5	ND	1	94	.2	2	2	125	.88	.057	4	124	.67	52	.10	7	1.14	.06	.11	1
RG-107	2	55	2	36	.2	20	11	388	3.77	4	5	ND	2	82	.2	2	2	121	.81	.060	4	106	.65	49	.10	6	1.08	.06	.11	1
RG-108	17	65	6	41	.2	17	12	4965	13.27	5	6	ND	2	95	.4	2	2	112	.93	.077	5	66	.40	153	.04	2	1.01	.03	.06	1
RG-109	3	53	3	31	.1	17	9	424	2.53	9	5	ND	1	89	.2	2	2	74	.75	.054	3	74	.62	53	.10	5	1.10	.05	.10	1
RG-110	3	53	2	32	.1	19	10	367	3.01	2	5	ND	1	91	.2	2	2	95	.84	.056	4	103	.67	52	.10	7	1.13	.06	.11	1
RG-111	2	49	2	37	.2	21	11	406	4.11	4	5	ND	1	88	.2	2	2	129	.82	.058	4	115	.63	49	.11	6	1.09	.06	.11	1
RG-112	4	48	2	35	.1	21	10	404	3.21	6	5	ND	1	102	.2	2	2	98	1.02	.060	4	114	.73	53	.12	7	1.24	.07	.13	1
RG-113	3	52	2	29	.1	17	9	352	2.52	2	5	ND	1	87	.2	2	2	77	.74	.054	4	73	.62	51	.10	6	1.07	.05	.10	1
RG-114	3	41	2	30	.1	20	9	369	2.54	8	5	ND	1	93	.2	2	2	76	.79	.055	4	85	.63	52	.10	6	1.09	.06	.10	1
RG-115	3	43	2	29	.1	19	9	365	3.31	5	5	ND	1	85	.2	2	2	103	.78	.055	4	101	.60	47	.10	7	1.03	.06	.09	1
RG-116	3	45	2	28	.2	19	10	369	3.47	6	5	ND	2	90	.2	2	2	109	.83	.060	5	99	.60	47	.10	8	1.07	.06	.11	1
RG-117	3	40	2	32	.1	17	9	369	3.06	2	5	ND	1	96	.2	2	2	95	.83	.053	4	95	.59	50	.10	6	1.12	.06	.10	1
RG-118	3	43	2	31	.1	16	9	361	2.50	5	5	ND	1	99	.2	2	2	76	.85	.054	4	79	.61	52	.10	6	1.16	.06	.10	1
RG-119	4	53	4	37	.2	19	10	379	2.67	8	5	ND	1	100	.2	2	2	83	.86	.055	5	95	.67	56	.10	6	1.25	.07	.12	1
RG-120	3	48	2	34	.1	17	9	365	2.54	8	5	ND	1	99	.2	2	2	77	.87	.057	5	77	.64	51	.10	7	1.21	.06	.11	1
RG-121	3	52	2	32	.1	18	9	398	2.45	7	5	ND	1	121	.2	2	2	74	.90	.054	4	73	.67	59	.10	7	1.35	.06	.10	1
RG-122	5	48	2	30	.1	19	10	412	3.35	2	5	ND	1	120	.2	2	2	105	1.01	.058	5	116	.68	61	.12	7	1.35	.09	.12	1
RG-123	3	44	15	38	.2	21	11	458	4.01	8	5	ND	1	118	.2	2	2	129	1.08	.059	4	115	.67	50	.11	8	1.30	.08	.11	1
RG-124	3	45	3	32	.1	15	9	382	2.65	5	5	ND	1	112	.2	2	2	84	.88	.056	5	76	.61	53	.10	8	1.20	.07	.11	1
RG-125	3	40	4	32	.1	16	8	367	2.45	4	5	ND	1	114	.2	2	2	78	.88	.051	4	73	.59	53	.09	6	1.19	.07	.10	1
RG-126	3	42	2	34	.2	17	9	383	3.34	8	5	ND	2	100	.2	2	2	109	.86	.056	5	92	.60	47	.10	6	1.12	.07	.11	1
RG-127	3	41	4	32	.1	18	9	400	3.29	7	5	ND	1	108	.2	2	2	110	.92	.062	6	89	.63	48	.10	8	1.18	.07	.10	1
RG-128	7	155	6	55	.1	8	16	1133	4.82	4	5	ND	1	54	.2	2	2	160	.67	.170	10	46	.77	79	.10	7	1.25	.04	.07	1
RG-129	9	193	8	91	.1	17	15	1083	4.63	5	5	ND	1	76	.3	2	2	152	.82	.169	12	120	.99	124	.11	9	1.64	.07	.15	1
RG-130	6	258	9	64	.4	46	21	952	5.79	6	19	ND	4	133	.3	2	2	207	1.12	.183	12	167	1.39	172	.14	7	2.14	.07	.17	1
RG-131	6	214	6	63	.1	34	19	733	4.65	12	6	ND	1	116	.3	2	2	153	1.01	.163	11	105	1.33	147	.12	8	2.00	.08	.13	1
RG-133	5	106	5	42	.1	20	12	423	3.30	2	5	ND	2	75	.2	2	2	90	.75	.132	8	73	.85	97	.09	8	1.33	.07	.12	1
RG-134	4	118	5	46	.1	18	11	321	2.89	2	5	ND	2	85	.2	2	2	70	.74	.139	9	60	.83	104	.08	7	1.38	.05	.09	1
RG-135	6	80	5	46	.1	13	10	615	2.48	4	5	ND	1	72	.3	2	2	63	.67	.110	8	69	.60	101	.06	8	1.12	.06	.11	1
STANDARD C	18	57	40	132	7.0	71	31	1053	3.95	40	22	7	40	55	19.6	15	18	58	.47	.093	39	59	.90	182	.07	40	1.91	.06	.13	12

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
RG-136A	5	149	4	48	.3	26	17	795	3.70	12	5	ND	3	77	.2	2	2	120	.82	.137	9	80	1.06	122	.10	7	1.48	.06	.15	1
RG-136B	7	159	5	62	.4	21	16	620	3.40	11	5	ND	3	94	.2	2	2	103	.91	.155	11	94	.89	137	.08	7	1.62	.06	.12	1
RG-137	7	114	9	53	.2	21	20	962	6.07	8	5	ND	3	56	.2	2	2	230	.68	.143	9	109	.65	104	.10	6	1.27	.05	.10	1
RG-138	7	89	4	50	.1	17	13	825	4.16	7	5	ND	2	68	.2	2	2	164	.74	.143	9	103	.61	115	.09	7	1.16	.06	.11	1
RG-139	7	72	3	42	.3	13	11	620	3.69	7	5	ND	2	59	.2	2	2	140	.68	.126	8	99	.52	95	.09	6	1.00	.07	.12	1
RG-140	8	78	5	48	.3	17	12	668	4.51	2	5	ND	3	63	.2	2	2	186	.75	.138	9	128	.56	103	.11	7	1.06	.08	.13	1
RG-141	6	91	5	43	.4	15	12	601	3.88	2	5	ND	3	63	.2	2	2	148	.73	.147	9	85	.60	97	.09	6	1.06	.06	.10	1
RG-142	5	77	4	39	.2	12	11	534	2.75	10	5	ND	3	52	.2	2	2	84	.59	.113	8	52	.58	88	.08	5	1.01	.04	.09	1
RG-143	4	58	2	32	.3	12	8	301	3.44	8	5	ND	3	43	.2	2	2	136	.63	.144	8	70	.42	59	.08	6	.78	.04	.08	1
RG-144	8	131	8	49	.3	16	14	836	3.18	8	5	ND	2	70	.2	2	2	89	.69	.133	10	62	.77	116	.06	5	1.48	.04	.08	1
RG-145A	13	569	12	113	.6	14	33	1306	5.63	11	5	ND	2	217	.5	2	2	128	1.29	.221	14	72	1.72	191	.10	5	3.54	.04	.19	1
RG-145B	5	67	3	35	.1	9	9	453	2.23	5	5	ND	2	55	.2	2	2	65	.67	.122	9	50	.46	73	.06	5	.89	.04	.07	1
RG-146	6	164	6	52	.3	17	13	561	3.58	8	5	ND	2	85	.2	2	2	111	.91	.169	11	67	.80	137	.07	6	1.55	.04	.08	1
RG-147	5	52	3	27	.1	7	6	329	2.12	2	5	ND	3	59	.2	2	2	66	.53	.087	6	69	.33	69	.05	4	.73	.05	.10	1
RG-148	6	60	2	33	.1	10	8	352	3.49	5	5	ND	2	73	.2	2	2	122	.59	.090	7	91	.35	74	.07	5	.78	.06	.10	1
RG-150	11	274	5	53	.5	73	24	867	4.91	14	7	ND	3	102	.2	2	2	131	.92	.148	10	232	1.54	156	.14	5	2.09	.06	.21	1
RG-151	20	573	8	91	.8	29	34	1351	6.08	13	55	ND	2	150	.4	2	2	156	1.12	.176	18	87	1.66	216	.10	4	3.24	.04	.17	1
RG-152	8	452	2	84	.5	27	26	970	7.89	5	14	ND	5	73	.2	2	3	253	.83	.173	14	106	1.41	139	.12	2	2.26	.03	.26	1
RG-153	7	289	4	75	.3	21	18	712	5.36	7	5	ND	4	56	.2	2	2	163	.78	.137	10	84	1.23	106	.11	5	1.79	.05	.22	1
RG-154	9	237	4	66	.2	25	20	728	7.69	6	5	ND	3	61	.2	2	2	280	.81	.132	10	131	1.08	96	.11	3	1.71	.05	.14	1
RG-155	12	230	3	60	.2	25	23	832	6.69	7	5	ND	3	60	.3	2	2	224	.76	.122	10	122	1.02	70	.10	3	1.58	.05	.13	1
RG-156	8	385	6	97	.4	18	14	528	2.05	6	23	ND	1	110	.6	2	2	56	1.65	.153	11	77	.51	82	.02	8	1.31	.02	.15	1
RG-157	11	289	4	82	.3	36	19	739	4.52	4	5	ND	2	91	.3	2	2	157	1.17	.119	8	188	.85	79	.07	7	1.64	.08	.15	1
RG-158	15	243	5	96	.2	43	23	985	5.29	6	5	ND	2	107	.3	2	2	188	1.24	.098	7	261	.92	85	.09	8	1.76	.11	.14	1
RG-159	7	176	2	52	.1	39	17	573	5.20	5	5	ND	2	84	.3	2	4	183	.99	.095	6	199	.88	67	.09	6	1.50	.08	.11	1
RG-160	8	279	4	50	.5	35	15	515	4.35	2	8	ND	1	102	.4	2	2	151	1.45	.144	13	180	.89	108	.08	8	1.62	.06	.19	1
RG-161	4	132	2	32	.2	26	14	345	7.18	2	5	ND	4	64	.2	2	4	280	.80	.115	8	165	.71	75	.12	3	1.18	.05	.15	1
RG-162	4	119	3	41	.1	26	13	327	5.68	6	5	ND	4	63	.2	2	2	205	.80	.120	9	139	.72	67	.11	5	1.17	.05	.13	1
RG-163	4	98	2	31	.1	17	9	286	3.40	8	5	ND	3	65	.2	2	3	112	.75	.115	10	77	.60	63	.08	6	1.09	.05	.11	1
RG-164	5	53	3	32	.2	13	8	310	3.69	4	5	ND	2	60	.2	2	3	130	.57	.084	6	75	.39	50	.07	3	.79	.04	.08	1
RG-165	4	41	3	26	.1	7	5	179	1.70	6	5	ND	2	62	.2	2	2	56	.51	.077	5	40	.32	48	.05	3	.72	.03	.07	1
RG-166	3	74	3	41	.1	26	8	278	1.42	2	5	ND	1	62	.2	2	2	50	.63	.071	3	110	.94	73	.08	3	.98	.04	.22	1
RG-167	5	36	4	48	.1	33	17	1523	3.63	9	5	ND	1	71	.2	2	3	77	.71	.070	2	141	1.02	97	.08	3	1.01	.04	.21	1
RG-168	4	93	2	57	.1	51	20	756	3.28	7	5	ND	1	72	.2	2	2	85	.78	.064	2	192	1.63	95	.11	3	1.50	.04	.32	1
RG-169	5	171	2	45	.2	44	25	486	2.90	2	5	ND	1	81	.2	3	2	78	.85	.080	2	168	1.33	60	.12	3	1.30	.05	.31	1
RG-170	5	150	2	55	.2	51	25	544	3.60	9	5	ND	1	86	.2	3	2	97	.89	.081	3	217	1.56	96	.13	3	1.49	.06	.43	1
STANDARD C	19	60	37	131	7.1	73	31	1055	3.97	36	16	7	40	52	18.9	15	21	59	.48	.096	40	60	.91	183	.08	39	1.92	.06	.13	13

Job#: 90-236

Project:

Sample Number	Au ppb	Ag ppm	Au oz/ton
74953	14	0.34	
74954	12	0.16	
74955	24	0.13	
74957	2	0.10	
74958	2	0.01	
74960	4	0.04	
74962	2	0.03	
74963	2	0.02	
74968	2	0.02	
74969	2	0.28	
86277	2	0.01	
86815	48	4.80	
86816	6	0.03	
86817	10	0.33	
86818	30	1.02	
86819	6	0.05	
86820	294	5.40	
86822	2	0.08	
86823	6	0.01	
86824	32	0.08	
86825	26200	41.0	0.764
86826	124	0.29	
86828	24	0.19	
86829	44	1.27	
86830	10	0.05	
86831	12	0.13	
86832	10	0.12	
86833	10	0.16	
86834	2	0.05	
86835	2	0.04	
86836	32	0.10	
86837	12180	21.0	0.355
86838	14640	37.8	0.427
86839	6480	5.30	0.189
86840	514	0.53	
86841	4	0.13	
86842	2	0.07	
86881	2	0.03	
86882	4	0.05	
86883	4	0.96	

BC-32 28
BC-36 2
BC-37 3
BC-38 7

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-235

Project:

	Sample Number	Au ppb	Ag ppm
BC-38 ([illegible])	74967	2	0.12
	74970	30	0.11
	74971	4	0.06
	74972	2	0.09
	74973	2	0.04
	74974	2	0.08
	74975	2	0.05
	74976	2	0.04
	74977	2	0.09
BC-38	74978	52	2.70
	74979	2	0.07
	74980	2	0.07
	74981	64	1.69
BC-43	86226	760	18.8
	86228	2	0.33
	86229	2	0.53
BC-38	86230	4	0.09
	86231	2	0.06
	86235	2	0.11
	86236	900	0.26
	86237	4	0.13
	86239	2	0.11
	86241	2	0.06
	86242	4	0.11
	86243	2	0.12
	86244	2	0.10
	86246	2	0.10
	86248	2	0.08
	86249	4	0.21
	86250	2	0.14
	86251	36	1.06
	86252	6	0.16
	86253	20	1.34
	86255	2	0.04
	86257	2	0.01
	86258	10	0.07
	86259	4	0.01
	86260	2	0.08
	86261	22	0.03
	86262	2	0.06

Job#: 90-235

Project:

Sample Number	Au ppb	Ag ppm
86263	4	0.09
86264	2	0.02
86265	10	0.12
86266	8	0.09
86267	2	0.15
86268	4	0.04
86269	4	0.07
86270	2	0.47
86271	338	3.80
86272	16	1.84
86273	2	0.02
86274	2	0.01
86275	2	0.02
86276	10	0.30
86278	118	3.10
86279	10	0.18
86280	16	0.23
86281	8	0.33
86282	2	0.01
86283	2	0.03
86284	2	0.08
86285	4	0.02
86286	2	0.20
86287	6	0.06
86801	2	0.02
86802	54	0.41
86803	2	0.16
86805	12	0.59
86806	2	0.08
86807	2	0.04
86808	2	0.14
86810	6	0.04
86812	4	0.14
86813	22	11.10
86814	2	0.06
86821	2	0.04
86853	2	0.02
86856	2	0.68
86857	2	0.06
86858	2	0.05

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-262

Project:

Sample Number	Au ppb	Ag ppm
86227	26	3.50
86232	2	0.12
86233	2	0.04
86234	2	0.04
86238	8	0.03
86240	2	0.02
86245	2	0.05
86247	2	0.02
86254	2	0.08
86256	2	0.26
86401	4	0.02
86804	2	0.04
86809	6	0.03
86811	6	0.06

TERRAMIN RESEARCH LABS Lt

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
DK- 1	16	0.92
2	4	0.44
3	8	0.28
4	28	0.38
5	26	0.13
6	6	0.07
7	2	0.08
8	2	0.07
9	2	0.07
10	2	0.10
11	14	0.07
12	6	0.09
13	10	0.06
14	12	0.06
15	14	0.07
16	2	0.06
17	6	0.08
18	10	0.06
19	6	0.06
20	6	0.09
21	10	0.06
22	36	0.31
23	2	0.05
24	12	0.05
26	4	0.10
27	24	0.10
28	2	0.09
29	4	0.07
30	30	0.08
31	12	0.11
32	I.S.	
33	18	0.09
34	22	0.07
35	6	0.06
36	26	0.07
37	4	0.08
38	4	0.06
39	I.S.	
40	2	0.10
41	148	0.07

BC-42

BC-38

TERRAMIN RESEARCH LABS Ltd

Job#: 90-228

Project: BC-32

BC-38

Sample Number	Au ppb	Ag ppm
42	6	0.06
43	4	0.06
44	4	0.07
45	8	0.06
46	8	0.16
47	I.S.	
48	I.S.	
49	6	0.08
50	2	0.08
51	4	0.05
52	2	0.08
53	2	0.06
54	6	0.06
55	2	0.06
56	4	0.08
57	4	0.06
58	40	0.08
59	6	0.12
60	8	0.08
61	6	0.08
62	6	0.09
63	10	0.10
64	4	0.09
65	10	0.09
66	12	0.11
67	10	0.05
68	14	0.10
69	8	0.09
70	6	0.09
71	2	0.12
72	10	0.10
73	8	0.14
74	2	0.06
75	6	0.08
76	2	0.05
77	4	0.06
78	10	0.08
79	4	0.09
80	4	0.07
81 A	14	0.07

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
81 B	10	0.07
82	4	0.07
83	6	0.08
84	12	0.14
85	6	0.09
86	34	0.08
88	16	0.07
89	12	0.12
90	10	0.12
91	8	0.09
92	16	0.04
93	10	0.04
94	28	0.06
95	8	0.05
96	8	0.04
97	8	0.03
98	18	0.07
99	6	0.05
101	6	0.03
102	6	0.02
103	4	0.04
105 A	2	0.06
105 B	8	0.08
106	6	0.09
107	8	0.10
108	8	0.08
109	4	0.07
JDK- 1	8	0.10
2	12	0.08
3	80	0.09
4		
5	10	0.09
6	14	0.08
7	12	0.08
8	12	0.08
9	12	0.07
11	14	0.10
12	2	0.12
13	10	0.08
15	4	0.07

BC-38

BC-42

BC-32

TERRAMIN RESEARCH LABS Ltd

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
JO- 98	4	0.06
99	6	0.04
100	10	0.03
101	2	0.04
102	2	0.03
103	8	0.07
104	2	0.03
105	8	0.05
106	4	0.04
107	2	0.04
108	4	0.04
109	10	0.05
110	4	0.04
111	12	0.06
112	4	0.03
113	2	0.08
114	8	0.38
115	4	0.12
116	4	0.28
117	2	0.15
118	2	0.15
119	2	0.07
120	6	0.10
121	2	0.23
122 A	2	0.21
122 B	2	0.10
123	2	0.07
124	2	0.09
125	2	0.21
126	4	0.10
127	2	0.05
128	2	0.11
129	4	0.09
130	6	0.14
131	12	0.06
132	2	0.10
133	2	0.05
134	6	0.06
135	2	0.06
136	12	0.15

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
JO- 137	20	0.22
138	8	0.09
139	24	0.17
140	32	3.30
141	6	0.10
142	6	0.17
143	8	0.07
144	2	0.10
145	2	0.09
146	4	0.09
147	4	0.10
148	2	0.04
149	2	0.12
150	2	0.13
151	8	0.15
152	8	0.09
153	2	0.07
154	8	0.15
155	6	0.21
156	24	0.30
157	30	0.14
158	10	0.34
159	2	0.15
160	6	0.18
161	6	0.23
162	2	0.36
163	6	0.30
164	16	0.38
165	6	0.20
166	4	0.18
167	2	0.16
168	4	0.13
169	60	0.21
170	4	0.12
171	6	0.14
172	8	0.11
173	4	0.11
174	2	0.09
175	2	0.09
176	2	0.04

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
JO- 177	2	0.12
178	2	0.05
179	2	0.12
180	2	0.10
181	4	0.26
182	2	0.06
183	2	0.06
184	4	0.07
185	2	0.06
186	2	0.04
187	8	0.06
188	8	0.30
189	4	0.14
190	6	0.13
191	2	0.02
192	4	0.18
193	2	0.02
194	4	0.06
195	2	0.13
19[illegible]	[illegible]	0.17
197	2	0.20
198	2	0.05
199	2	0.02
200	8	0.04
201	4	0.07
202	2	0.03
JRG- 1	6	0.04
2	4	0.02
3	4	0.01
4	4	0.01
5	10	0.04
6	2	0.01
7	10	0.01
8	2	0.01
9	44	0.03
10	94	0.08
11	248	0.14
12	4	0.05
13	4	0.06
14	8	0.11

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
JRG- 96	60	0.11
97	10	0.05
98	18	0.05
RG- 1	18	0.35
2	26	1.27
3	14	0.48
4	14	0.30
5	8	0.27
6	2	0.15
7	8	0.17
8	6	0.17
9	10	0.13
10	12	0.14
11	10	0.11
12	10	0.14
13	6	0.11
14	14	0.10
15	6	0.10
16	10	0.12
17	8	0.09
18	28	0.08
19	8	0.08
20	4	0.09
21	10	0.06
22	6	0.06
23	8	0.05
24	2	0.05
25	8	0.07
26	12	0.09
27	6	0.07
28	4	0.07
29 A	8	0.06
29 B	6	0.06
30	8	0.06
31	8	0.06
32	4	0.07
33	8	0.08
34	10	0.06
35	4	0.07
36	6	0.04

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
RG- 37	4	0.06
38	4	0.06
39	6	0.05
40	2	0.04
41	4	0.06
42	4	0.05
43	24	0.07
44	8	0.05
45	4	0.06
46	4	0.06
47	4	0.05
48	6	0.06
49	22	0.06
50	4	0.05
51	4	0.06
52	2	0.04
53	8	0.05
54	12	0.17
55	8	0.08
56	10	0.09
57	10	0.19
58	12	0.26
59	12	0.16
60	34	0.15
61	6	0.10
62	8	0.14
63	16	0.15
64	12	0.02
65	14	0.18
66	28	0.27
67	12	0.24
68	16	0.16
69	14	0.20
70	14	0.19
71	14	0.19
72	10	0.20
73	10	0.19
74	20	0.15
75	14	0.12
76	14	0.16

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

	Sample Number	Au ppb	Ag ppm
RG-	77	12	0.18
	78	10	0.16
	79	16	0.13
	80	12	0.15
	81	4	0.10
	82	74	0.08
	83	4	0.08
38	84	14	0.07
	85	4	0.10
42	86	4	0.04
	87	2	0.04
	88	2	0.05
	89	4	0.03
	90	4	0.05
	91	2	0.04
	92	4	0.05
	93	12	0.04
	94	2	0.04
	95	2	0.04
	96	2	0.04
	97	4	0.04
	98	2	0.03
	99	6	0.04
	100	6	0.04
	101	2	0.04
	102	2	0.04
	103	2	0.03
	104	4	0.04
	105	4	0.03
	106	2	0.03
	107	2	0.03
	108	12	0.12
	109	2	0.02
	110	48	0.07
	111	64	0.08
	112	2	0.03
	113	2	0.03
	114	4	0.04
	115	6	0.03
	116	4	0.02

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-228

Project: BC-32

Sample Number	Au ppb	Ag ppm
RG- 117	6	0.03
118	4	0.04
119	6	0.04
120	8	0.03
121	2	0.03
122	2	0.04
123	6	0.06
124	2	0.02
125	4	0.02
126	2	0.03
127	2	0.03
128	2	0.04
129	8	0.09
130	10	0.16
131	10	0.14
133	6	0.08
134	6	0.07
135	2	0.07
136 A	6	0.11
136 B	8	0.18
137	4	0.05
138	2	0.06
139	4	0.04
140	8	0.04
141	6	0.07
142	6	0.06
143	6	0.04
144	8	0.08
145 A	24	0.24
145 B	4	0.05
146	12	0.22
147	2	0.07
148	8	0.04
150	10	0.14
151	16	0.48
152	10	0.18
153	8	0.11
154	8	0.13
155	4	0.08
156	4	0.36

Job#: 90-228

Project: BC-32

	Sample Number	Au ppb	Ag ppm
RG-	157	6	0.12
	158	52	0.10
	159	4	0.08
	160	12	0.16
	161	8	0.06
	162	4	0.07
	163	6	0.05
	164	4	0.04
38	165	6	0.05
	166	2	0.09
42	167	4	0.05
	168	8	0.05
	169	10	0.07
	170	6	0.07
	171	16	0.08
	172	6	0.13
	173	6	0.07
	174	4	0.04
	175	6	0.05
	176	4	0.05
	177	8	0.07
	178	2	0.05
	179	2	0.08
	180	4	0.07
	181	4	0.08
	182	4	0.07
	183	8	0.07
	184	2	0.06
	185	8	0.06
	186	6	0.09

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-260

Project: BC-38

Sample Number	Au ppb	Ag ppm
BRG- 40	6	0.08
BJO- 204	2	0.06
205	6	0.05
206	4	0.12
207	8	0.09
208	10	0.12
209	10	0.06
210	8	0.07
211	6	0.08
212	20	0.05
213	6	0.06
214	8	0.06
215	8	0.06
216	6	0.06
217	2	0.06
218	4	0.15
219	2	0.06
220	6	0.04
221	4	0.05
222	6	0.10
223	8	0.07
224	6	0.10
225	4	0.10
226	4	0.10
227	6	0.08
228	8	0.09
229	4	0.07
230	6	0.09
231	12	0.10
232	8	0.18
233	6	0.08
234	6	0.20
RG- 187	20	0.25
188	22	0.29
189	20	0.23
190	12	0.20
191	16	0.19
192	10	0.17
193	12	0.15
194	6	0.14

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-260

Project: BC-38

Sample Number	Au ppb	Ag ppm
RG- 195	42	0.16
196	24	0.13
197	6	0.10
198	10	0.11
199	8	0.10
200	8	0.10
201	8	0.11
202	8	0.10

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-143

Project: BC-38

Sample# Number	Au ppb	Ag ppm	Cu ppm
86101	2	0.08	84
86102	12	0.10	10
86103	4	0.22	35
86104	8	0.20	24
86105	4	0.11	42
C/D 86106	4	0.10	80
86107	12	0.13	86
86108	20	0.12	94
86109	14	0.12	25
86110	10	0.08	6
86111	4	0.01	3
86112	8	0.48	640
86113	6	0.09	130
86114	2	0.09	68
38 86115	4	0.02	77
86116	32	0.33	90
86117	2	0.01	23
N11 86118	2	0.03	52
86119	14	0.39	4800
38 86120	12	0.55	5700
86121	4	0.08	151
N11 86122	2	0.04	97
86123	140	5.40	12600
86124	22	1.14	2000
38 86125	16	0.64	1230
86126	64	2.50	82
86127	8	0.07	81
C3 86128	8	0.09	97
86129	8	0.13	58
86130	4	0.05	73
42 86131	6	0.12	162
86132	4	0.10	53
86133	10	0.19	55
86134	8	0.03	79
N11 86135	6	0.05	87
86136	10	0.05	7
86137	2	0.05	86
38 86138	2	0.04	34
86139	8	0.04	30
86140	24	0.16	85

TERRAMIN RESEARCH LABS Ltd.

Job#: 90-143

Project: BC-38

Sample Number	Au ppb	Ag ppm	Cu ppm
86141	8	0.04	71
86142	2	0.21	108
86143	2	0.03	4
86144	8	0.22	310
38 86145	4	0.05	114
86146	4	0.10	310
86147	4	0.15	260
86148	2	0.03	52
86149	4	0.10	122
86150	2	0.02	5
86151	2	0.02	10
86152	4	0.02	8
86153	2	0.01	7
12 86154	10	0.29	900
86155	2	0.04	39
86156	8	0.06	67
86157	2	0.02	53
86159	4	0.05	108
86160	2	0.03	42
38 86161	2	0.04	132