REPORT ON THE

GEOLOGICAL AND GEOCHEMICAL SURVEY

OF THE

MARCH CREEK PROPERTY

WET AND WET 1 - 29 CLAIMS

GREENWOOD MINING DIVISION

N.T.S. 82E/2W
Latitude: 49°00'30"N
Longitude: 118°56'W

For:

BATTLE MOUNTAIN (CANADA) INC.
#630 - 1199 West Pender Street
Vancouver, B.C.
V6E 2R1

By:

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January, 1991

SUMMARY

The March Creek property is located adjacent to the Canada-U.S. border approximately 8 kilometers due west of the town of Midway in south-central British Columbia. The claims comprise 47 units for a total of 1175 hectares and are owned by Kettle River Resources Ltd. The property is presently under option to Battle Mountain (Canada) Inc.

The property is primarily underlain by a sequence of overlapping volcanic flows (Marron Formation) which conformably overlie a wedge of continental sediments (Kettle River Formation) near the western margin of the property. Both of these Formations are of Eocene age and in unconformable contact with a Permo-Carboniferous metamorphic suite known as the Knob Hill Group. Skarn alteration and minor sulphide mineralization are confined to the Knob Hill rocks. Also, a number of north to northeast trending normal faults cut the property. These faults run sub-parallel to the western edge of the Toroda Creek Graben.

Commencing August 2, 1990, a two-stage exploration program was carried out on the March Creek property. The program included mapping (1:5000), rock sampling, 2 geochemical soil grids and stream sediment sampling. A total of 44 rock chip samples, 536 soil samples and 39 silt samples were collected during the program.

One rock chip sample (BC 2065), collected from a Knob Hill skarn was found to contain an anomalous zinc value of 4373 ppm Zn. As well, a minor zinc soil anomaly was detected near this sample. However, no gold or other base metal anomalies were detected within the Knob Hill rocks. To the east, in the Marron volcanics, a 78 ppb gold value was collected in a stream sediment sample. Mapping, rock and soil sampling carried out around this anomaly failed to reveal

any alteration or mineralization which could verify the result. However, a thick layer of glacial till was mapped within the bottom of the March Creek valley and it is considered probable that the anomalous silt sample had been transported with the glacial till.

The low geochemical response for both base and precious metals is believed to accurately represent the metallic content of the underlying rocks. Chances of successful future exploration on this property are considered minimal. It is therefore recommended, that no further work be conducted on the March Creek property.

Respectfully submitted,

D.R. Lucas

Duane R. Lucas, B.Sc., F.G.A.C.

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1.0 INTRODUCTION

During the summer and fall of 1990, a two-stage exploration program was undertaken by Battle Mountain (Canada) Inc. over the March Creek property in south-central British Columbia (Figure 1). The scope of the work included geological mapping (1:5000) and rock sampling, as well as geochemical soil and silt sampling. The purpose of the program was to explore the Knob Hill Group, located on the western edge of the property, for gold-skarn mineralization similar to that found on the Crown Jewel deposit, 4.8 kilometers south-southwest. In addition, to respond to an anomalous gold value obtained in heavy mineral sampling conducted on March Creek in 1989.

The first stage of the program consisted of a 7.7 line-kilometer soil grid along the western edge of the property which included 308 soil samples. Mapping was carried out over the grid and 27 rock chip samples were collected. Thirty-nine silt samples were collected along March Creek at 100 m intervals from the west central part of the property, toward the eastern border. This stage of the program was managed by Wade D. Harris (temporary field geologist) with one assistant and was conducted over a 27 day period commencing August 2, 1990.

Stage 2 of the program was initiated in response to a few anomalous gold values detected during the Stage 1 stream sediment sampling. Commencing October 28, 1990, this stage included a 10.4 line-kilometer soil grid with 228 soil samples, mapping over the remainder of the property and the collection of 17 rock samples. This part of the program was conducted by Duane R. Lucas (geologist) with one geological technician and was completed on November 17, 1990.

The 1990 exploration program and the following report were completed for Battle Mountain (Canada) Inc., #650 - 1199 West Pender Street, Vancouver, B.C.

1.1 Location and Access

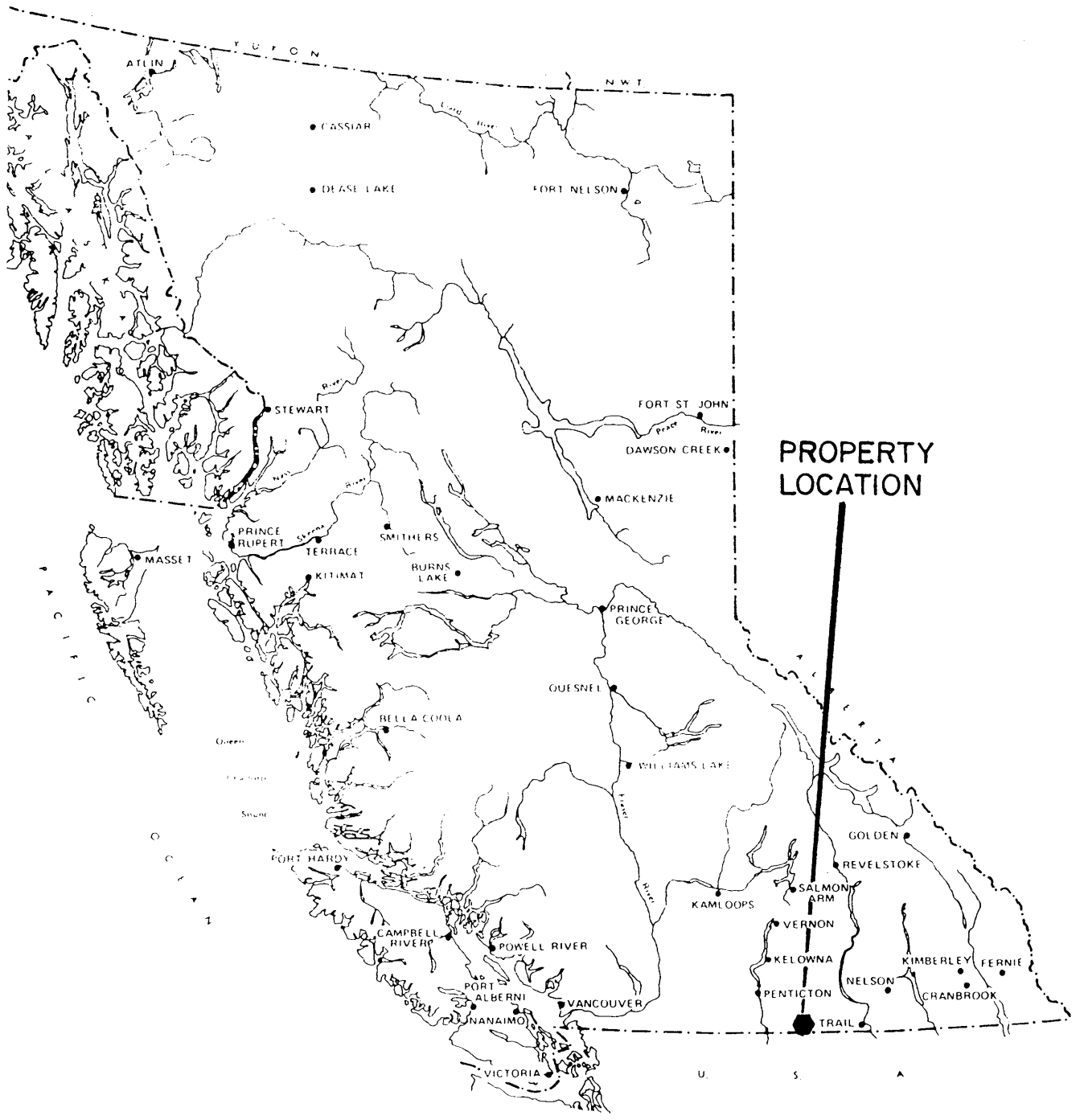
The March Creek property is located adjacent to the Canada-U.S. border in south-central British Columbia (Figure 1). The claims are centered on 49^{0}00'30" North latitude and 118^{0}56' West longitude, lying approximately 8 kilometers due west of the small town of Midway, B.C. Midway is situated along Southern Provincial Highway No. 3.

Access to the property from Midway is south through town and across the Kettle River, then due west along the Myers Creek/March Creek road 9.2 kilometers to the claim group. The Myers Creek/March Creek road, while unpaved, is generally suitable for 2-wheel drive vehicles. Logging spur roads on the property require 4-wheel drive transportation.

1.2 Topography, Climate and Vegetation

Phyisographically, the March Creek group occupies an area within the Okanagan Highlands. The terrane in this region generally consists of smooth-topped hills and low mountains cut by occasional steep-walled valleys. A large portion of the property itself is dominated by a series of north-south trending ridge lines which represent volcanic flows. March Creek roughly bisects the claims, draining from the west toward its confluence with Myers Creek in the east. Elevations range from 730 m along the eastern edge of the claims to 1220 m near the middle of the property.

The climate of the area is considered semi-arid with an annual rainfall of between 300 and 450 mm. Precipitation falls primarily as snow during peak winter months with low mean temperatures of approximately -5^{0}C. Peak rainfall is during May and June and temperatures can reach as high as 40 to 41^{0}C during July and August.



BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

LOCATION MAP

PROJECT No 75-97	DATA BY
N.T.S. 82E-2	DRAWN BY D.R.L.
DRAWING No FIGURE 1	DATE NOV 1990
SCALE 1:8,000,000	

0 100 200 300 KM.

CHONG

Located within the Kettle Provincial Forest, selective logging has been carried out over the property since 1956. Forest cover generally consists of yellow pine, larch and fir and trees are well spaced. Undergrowth is minimal. The tops of ridges are usually devoid of timber due to outcrop and subcrop exposure. Valley bottoms tend to be filled with glacial debris.

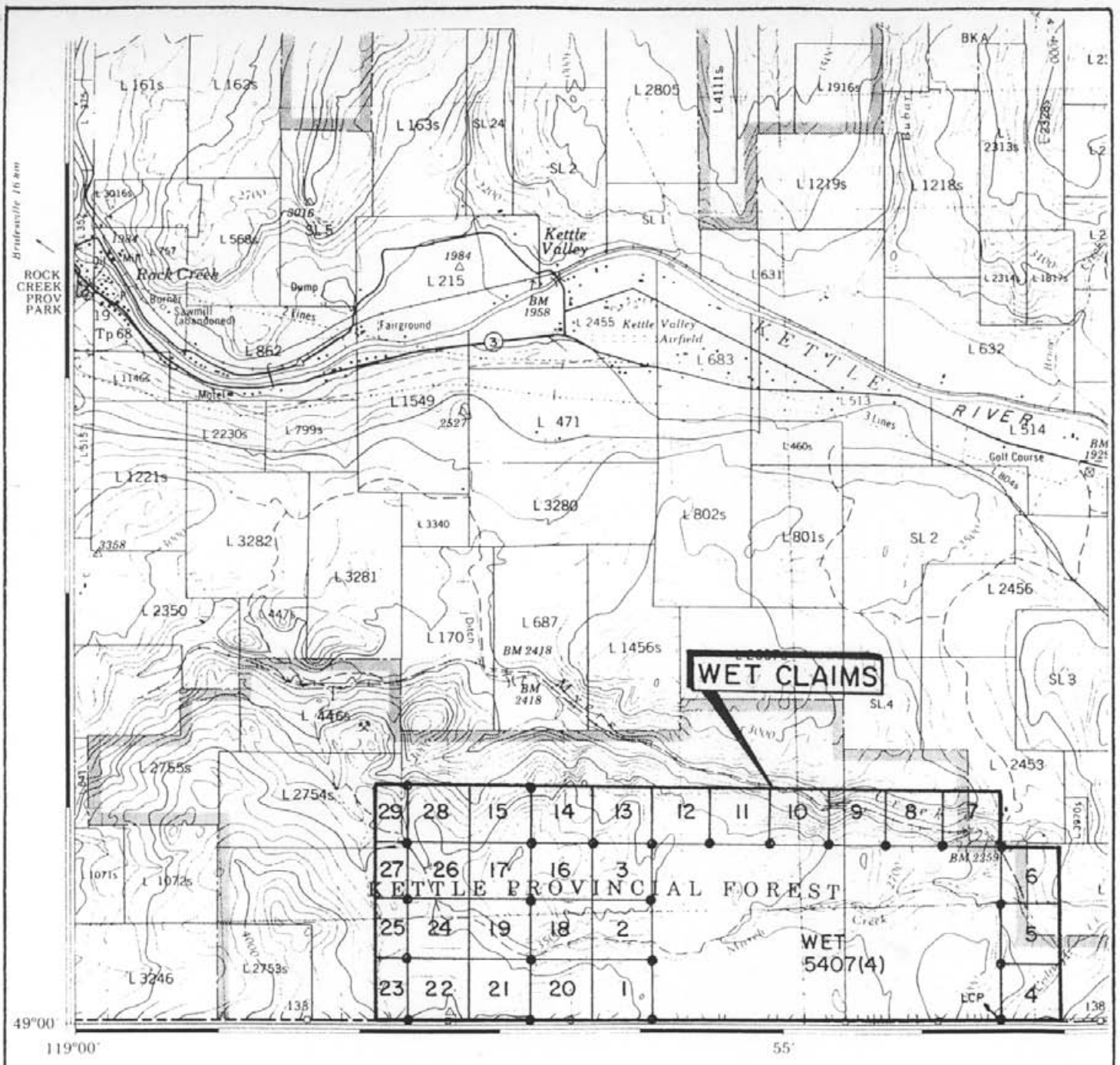
1.3 Claim Status

The March Creek property (Wet claims) is composed of one 18 unit claim and 29 one unit claims for a total of 47 claim units covering 1175 hectares (Figure 2). Situated within the Greenwood Mining Division, the claims are owned by Kettle River Resources Ltd. and are presently under option to Battle Mountain (Canada) Inc.

Pertinent claim data is outlined in the following Table 1.3.1.

Table 1.3.1
Claim Data

Claim Name	Record No.	No. of units	Record Date	Expiry Date
Wet	5407	18	04/24/89	04/24/91
Wet 1 - 3	5408 to 5410	3	04/23/89	04/23/91
Wet 4 - 6	5411 to 5413	3	04/24/89	04/24/91
Wet 7 - 21	5434 to 5448	15	04/27/89	04/27/91
Wet 22 - 29	5449 to 5456	8	05/01/89	05/01/91



● Claim post

BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

CLAIM MAP

PROJECT No. 75-97	DATA BY
N.T.S. 82E-2	DRAWN BY D.R.L.
DRAWING No. FIGURE 2	DATE NOV. 1990
SCALE 1:50,000	

0 1 2 KM

CHONG

2.0 PREVIOUS HISTORY

The earliest record of exploration and mining in the Midway-Greenwood area dates back to 1859 with the discovery of placer gold in Rock Creek (Holland, 1950). Placer activity flourished throughout the region for the next twenty-five years, but little interest was shown in lode mineralization until the mid 1880's. The first lode claims, known as the Rocky Bar and Non-such, were located in 1884 near Boundary Falls, approximately 5 kilometers south of Greenwood, B.C.

During the 1890's, prospecting escalated and a number of significant copper and gold deposits were discovered and staked. By the end of the 19th century many of these individual deposits had formed into large-scale mining camps and serious production was underway. The largest of these mining camps, Phoenix, reached a peak production of 1,134,000 tonnes of ore mined and shipped by 1913. Production began to decrease after this date, and with the loss of coking coal to the Grandby smelter due to labor strife in 1919, production ceased altogether.

A small flurry of activity which resulted from a rise in the price of gold was seen in 1933, but this was minimal when compared to the region's previous glory days. In fact, the area was fairly quiet until the mid 1950's at which time a favorable change in the price of copper led to new exploration and development. The Phoenix was revitalized and by 1976 a total of 26,956,525 tonnes of ore had been processed.

More recently, a renewed interest in gold skarn deposits by companies such as Minnova and Battle Mountain (Canada) Inc., has stimulated exploration activity throughout the area. A large-scale drill program was conducted by Battle Mountain in the summer and fall of 1990 at the Crown Jewel deposit, 4.8 kilometers south-southwest of the March Creek property.

With respect to the March Creek property itself, the only previous work known to the writer consists of a heavy mineral stream sampling survey conducted by Discovery Consultants for Kettle River Resources Ltd. in 1989.

3.0 GEOLOGY

3.1 Regional Geology

The March Creek property and surrounding area is situated at the southern end of the Omineca crystalline belt (Fox, Rinehart and Engels, 1977). It is underlain by a wide range of lithologies consisting of metamorphic, sedimentary, intrusive and volcanic rock units (Figure 3A and 3B). According to H.W. Little (G.S.C. Paper 79-29), these units, which vary in age from late Proterozoic to Tertiary (Eocene), can be grouped into seven separate assemblages.

The first and oldest of these consists of a late Proterozoic granitoid gneiss overlain by early to middle Paleozoic amphibolite and schist units. Deformation and metamorphism within this assemblage appears to predate the next assemblage, which is composed of the Attwood Formation and Knob Hill Group. The Attwood Formation includes argillite, chert, conglomerate and limestone which are conformably overlain by Knob Hill greenstone, amphibolite, argillite, minor limestone and local chert and quartzite. This assemblage has been dated as Permo-Carboniferous in age and was apparently deformed and eroded prior to the deposition of the overlying Mesozoic rocks.

The third assemblage consists of the Brooklyn Formation which hosts many of the major deposits in the region (e.g. Phoenix). This formation is considered to be Lower to Middle Triassic in age and includes limestones interbedded with chert, siltstone, sandstone and conglomerate. Skarn alteration within the Brooklyn is extensive and may be attributable to Jura-Cretaceous Nelson intrusions.

FOR LEGEND SEE FIG. 3 B

BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

REGIONAL GEOLOGY

PROJECT No. 75-97	DATA BY
NTS 82E-2	DRAWN BY D.R.L.
DRAWING No. FIGURE 3A	DATE NOV. 1990
SCALE 1:50,000	

0 1 2 KM

CHONG

LEGEND

CENOZOIC

QUATERNARY

Qv — *Unconsolidated sediments: silt, sand, gravel and till*

TERTIARY

EOCENE

MIDDLE EOCENE

Ekm — *KLONDIKE MOUNTAIN FORMATION: heterogeneous non-volcanic epiclastic breccia*

Ec — *CORYELL INTRUSIONS: syenite, quartz monzonite, minor granite and pulaskite*

Emi — *MARRON FORMATION: INTRUSIVE ROCKS*
Emi-4 , undivided dykes, largely intrusive equivalents of divisions Emv1,2 and 3 but some of unknown affinity; Emi3, diorite and diorite porphyry (equivalent to lavas of division Emv1); Emi2, syenite and diorite (equivalent to lavas of division Emv2); Emi1, alkaline syenite, largely rhomb-porphyry (equivalent to lavas of division Emv1)

Emv — *LAYERED ROCKS (largely extrusive)*
Division Emv3: Emv3a, andesite; Emv3b, tuff
Division Emv2: Emv2a, andesite and trachyandesite; Emv2b, tuff
Division Emv1: Emv1a, sodic trachyte in part undersaturated, and minor phonolite; Emv1b, related rocks characterized by flow breccias and intercalated pyroclastics; Emv1c, related (?) trachyte

Eks — *KETTLE RIVER FORMATION: feldspathic and lithic tuffaceous sandstone and siltstone; shale and conglomerate; minor acidic and intermediate pyroclastic and flow rocks*

CRETACEOUS OR TERTIARY

KTi — *Quartz-feldspar and quartz porphyry; minor porphyritic quartz diorite; KTi1, felsite*

CRETACEOUS (?)

Kvqm — *VALHALLA INTRUSIONS: granite and quartz monzonite, mainly porphyritic, some pegmatitic; Kvqm1, mainly pegmatite*

MESOZOIC

JURASSIC AND/OR CRETACEOUS

JKgd — *NELSON INTRUSIONS: granodiorite; minor quartz diorite and diorite*

JURASSIC (?)

Jum — *Peridotite, pyroxenite, dunite, serpentinite; Jum1, pyroxenite*

Js — *Siltstone, minor phyllite, sandstone and conglomerate*

Jph — *Black phyllite*

Jv — *Flow breccia and massive greenstone; Jv1, basal (?) conglomerate with limestone clasts; Jv2, flow breccia, locally with some interbedded limestone*

TRIASSIC

UPPER TRIASSIC

uTsv — *White limestone, black limestone, grey, black, and buff shale, limestone breccia, purple or maroon agglomerate, commonly with limestone clasts; uTsv1, mainly limestone; uTsv2, mainly agglomerate; uTsv3, green cherty argillite*

MIDDLE AND (?) LOWER TRIASSIC

mTl — *BROOKLYN FORMATION (mTs–mTl)*
mTl1, limestone, mainly with some chert grains, skarn, minor chert sharpstone conglomerate, siltstone, and shale; mTl2, mainly skarn

mTs — *mTs1, sharpstone conglomerate with mainly chert clasts, local chert sandstone, and minor black argillite; mTs2, mainly buff chert sandstone with beds of sharpstone conglomerate and chert grit; mTs3, green argillite; mTs4, black argillite; mTs5, limestone conglomerate*

PALEOZOIC

CARBONIFEROUS OR PERMIAN

CPkh — *KNOB HILL GROUP: massive chert, greenstone, and amphibolite; minor limestone or marble; locally tan or black argillite, fine-grained quartzite, conglomerate; CPkh1, mainly chert; CPkh2, mainly greenstone; CPkh3, mainly amphibolite; CPkh4, limestone or marble; CPkh5, quartzite; CPkh6, tan to green shale and metasiltstone*

CPal — *ATTWOOD GROUP (CPas–CPal)*
Limestone, some with thin chert interbeds

CPas — *Black to grey bedded argillite, locally some grey chert and cherty siltstone; minor chert sharpstone conglomerate*

PRE-CARBONIFEROUS

Pm — *Pm1, quartz-chlorite schist, quartz-biotite-muscovite schist, greenstone, bedded chert with argillaceous partings; minor limestone; Pm2, quartz-biotite schist, hornfels, amphibolite, minor marble. May not be equivalent to unit Pm1. Both Pm1 and Pm2 probably include some metamorphosed unit CPkh*

PROTEROZOIC (?)

Pa — *Amphibolite, minor greenstone and bedded chert*

AGE UNKNOWN

Pm — *Paragneiss, migmatite; Pm1, layered granitoid gneiss; Pm2, granitoid gneiss; Pm3, amphibolite with pegmatite or aplite; Pm4, mafic layered gneiss; Pm5, layered amphibolite bearing gneiss; Sil-chert, locally graphite*

Rock outcrop: area of outcrop

Geological boundary (defined, approximate, assumed)

Bedding, tops known (horizontal, inclined, vertical, overturned)

Bedding, tops unknown (inclined, vertical)

Primary flow structures in igneous rock, layering in igneous rocks (inclined, vertical)

Schistosity (inclined, vertical, dip unknown)

Second generation (inclined)

Lineation (inclined, inclined but plunge unknown)

Fault (defined, approximate, assumed)

Thrust fault (teeth in direction of dip; defined, assumed)

Axial trace of anticline (approximate)

Axial trace of syncline (approximate)

Glacial striae (direction of ice movement known, unknown)

Fossil locality, fauna described (#12)

Fossil locality, unidentifiable fauna

Shaft

Adit

Line of section C — D

BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

GEOLOGICAL LEGEND

PROJECT No. 75-97	DATA BY:
NTS 82E-2	DRAWN BY: D.R.L.
DRAWING No. FIGURE 3.8	DATE: NOV. 1990
SCALE:	

Assemblages four and five are composed of Upper Triassic limestone shale and pyroclastics overlain by volcanics of the Jurassic Rossland Group. These units are unconformable with the earlier Brooklyn Formation. As well, all of the above assemblages were influenced by the Jura-Cretaceous Nelson and Valhalla intrusions at this time.

The sixth assemblage of Eocene rocks consists of Kettle River sediments overlain by Marron volcanics and also contains the coincident intrusion of the Coryell plutons. This assemblage underlies a large portion of the March Creek property.

The final assemblage consists of an epiclastic breccia which is of limited extent and overlies the Marron Formation. As well, Pleistocene glacial deposits can be found covering a number of valley bottoms.

Structurally, the predominant faulting in the area is normal and trends north to northeasterly, subparallel to the extension of the Republic Graben and the adjacent Toroda Creek Graben. Most of this faulting is thought to be Tertiary (Eocene) in age. Low-angle, generally east-west trending thrust faults also occur within the region, but are less dominant. These structures are thought to predate the Tertiary faults and are possibly related to the Jura-Cretaceous orogeny.

3.2 Property Geology and Mineralization

Most of the March Creek property is underlain by a sequence of middle Eocene volcanics of the Marron Formation (Tm). Near the western margin of the property, the Marron conformably overlies a wedge of early to middle Eocene continental sediments known as the Kettle River Formation (Tkr). In turn, these sediments are in unconformable contact with a Permo-Carboniferous group of rocks called the Knob Hill Group (C Pkh). Structurally, the March Creek property lies along the western edge of the Toroda Creek Graben and is cut by a series of north-south trending normal faults.

The Knob Hill Group (Plate 3), which lies along the western margin of the property, is composed primarily of greenstones, cherts, quartzites and limestones. Orientation of individual units is difficult to define due to recrystallization and some remobilization, but the predominant direction of foliation appears to strike northwesterly with steep dips to the northeast. Evidence of contact metamorphism can be seen, especially in the northwest corner of the property, with the alteration of some of the rocks to hornfels (Rock Sample BC 2070) and possible garnet-diopside skarn (BC 2064). The only mineralization detected on the March Creek property was found within the Knob Hill Group. However, analysis of rock samples returned nothing of economic significance. Most of the mineralization observed was in the form of disseminated pyrite or pyrrhotite, at times up to 5%.

The Kettle River Formation (Plate 3) consists almost entirely of grey-brown to grey-green arkose where it is exposed on the March Creek property. This formation forms a relatively thin wedge of sediment between the metamorphic Knob Hill Group to the west and the massive Marron volcanics to the east. Bedding strikes predominantly north-south with moderate to steep dips to the east. No alteration or mineralization were observed in this unit.

The Marron Formation (Plate 3 and 4) underlies approximately 75 - 80% of the March Creek property. This sequence of volcanics consists of a series of overlapping flows which strike north-south and dip moderately to the east. Composition within the Marron is variable, with lithologies consisting of sodic trachyte (Tmt), trachyandesite (Tmta), minor thin tuffaceous lenses (Tmtf), andesite (Tma), feldspar/pyroxene porphyry (Tmp) and occasionally glomeroporphyritic feldspar porphyry (Tmfp) . J.W.H. Monger (G.S.C. Paper 67-42) defined a lower, middle and upper subdivision within the Marron Formation, but the writer was unable to detect the contacts of these divisions. Although a number of north-south and northeast-southwest trending faults were mapped during the program, no mineralization or alteration was detected along any of these structures. Lab analysis of the rock samples collected returned no values of economic significance.

Pleistocene glacial deposits were widely spread throughout the bottom of March Creek Valley. As well, mapping indicated that till coverage was more extensive on the south flank of the creek than it was on the north flank. Glacial stria indicated a northwest to southeast ice motion.

4.0 GEOCHEMISTRY

4.1 Soil Survey-Grid I

Soil survey Grid I (West Grid) was established as a 7.7 line-kilometer soil grid covering the northern portion of the Knob Hill Group on the March Creek property (Plate 1). Samples were collected from the "B" soil horizon every 25 meters on lines spaced at 200 meter intervals. A total of 308 soil samples were collected from Grid I. Sample locations and sample numbers are plotted on Plate 5a and 5b (in pocket). All sample sites were flagged and samples were placed in kraft soil bags and numbered with the corresponding site number. Samples were then shipped to International Plasma Laboratory Ltd. in Vancouver, B.C. for analysis. Each sample was analyzed for gold by a 30 gram fire assay with fusion preconcentration and atomic absorption finish. As well, samples were run for a 30 element ICP after an aqua regia digestion. A summary of analytical methods can be found in Appendix IV. Complete records of analytical results are located in Appendix V.

4.2 Soil Survey - Grid II

A second 10.4 line-kilometer soil survey grid, Grid II (East Grid), was established on the eastern portion of the March Creek property of Marron volcanics (Plate 2). All samples were collected in the same manner as were the previous samples in Grid I. However, sample sites were located each 50 meters on lines spaced at 100

meter intervals. A total of 228 soils were collected and shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. Sample numbers and sample locations are plotted on Plate 6a. A 10 gram gold analysis with fusion preconcentration and an ICP determination was carried out on each sample. Also, samples were run for a 30 element ICP. A description of analytical methods for Acme Labs is located in Appendix III. As well, complete analytical results can be found in Appendix V.

4.3 Method of Data Evaluation - Grids I and II

Evaluation of all analytical data was undertaken by Prime Geochemical Methods Ltd. The procedure used to interpret the histograms (Plate 8) is found in Appendix VI. This strategy enables selection of appropriate intervals which are then used to size-code the geochemical data for presentation on plotted maps. The open circle represents lowest values for the survey; size-coding of remaining data reflects increasingly larger values as the "dots" increase in size. The largest concentration of the survey are highlighted by a value notation. It should be noted that only plots for gold, copper and zinc (5b, c, d - Grid I and 6b, c, d - Grid II) were included in this report since only these elements showed significant variation of results. All other plots for the 30 element ICP can be supplied upon request.

4.4 Discussion of Soil Survey Results - Grid I and II

1. Gold

The highest gold value returned for Grid I was 50 ppb Au. This slightly anomalous value appeared as a spot anomaly and the author could determine no acceptable reason for its occurrence other than glacial debris. In Grid II, the highest gold value came from sample 410046 at 70 ppb Au. Although no attributable alteration or mineralization was observed in this area to account for this anomalous value, this value did coincide with a previous stream sediment anomaly. It should be noted that extensive glacial till covers this area as well.

2. Copper

The highest copper result, 108 ppm Cu, for Grid I came from sample 3302 which also had a coincident zinc value of 136 ppm Zn. While not economic in itself, this particular anomaly can be related to a zone of slightly mineralized skarns. Grid II showed no values greater than 49 ppm Cu.

3. Zinc

Zinc results for Grid I showed a few slightly anomalous zones within the Knob Hill Group. The highest value detected, 193 ppm Zn, came from sample 3064. This result, as with copper, though not economic and not pervasive, can be accounted for in the minor mineralization within the surrounding Knob Hill units. Grid II returned a high zinc value of 133 ppm Zn (sample 410038). This result, although not highly anomalous, was coincident with 33 ppm Cu, one of the higher copper values from Grid II.

4.5 Stream Sediment Survey

A stream sediment sampling program was conducted during the first stage of the exploration program on March Creek. A total of 39 silt samples were collected at 100 meter intervals beginning at the west central portion of the property and moving eastward. The position of Grid II was based upon anomalous gold values returned from this survey. Sample locations and sample numbers can be found on Plate 1, 2 and 7a (in pocket). All stream silts were taken from the active portions of March Creek, and placed in standard kraft paper bags. The sample locations were flagged and then tagged with aluminum tree tags. Samples were air dried and shipped to International Plasma Laboratory Ltd. in Vancouver, B.C. Samples were prepared and analyzed in the same way as the soil samples from Grid I (section 4.1). A description of method of analysis is located in Appendix IV. Complete assay results are found in Appendix V.

4.6 Discussion of Stream Sediment Results

Stream sediment results were treated in the same manner as the soil results discussed in Section 4.3.

1. Gold

Three anomalous values greater than 20 ppb Au were detected in the stream sediment survey. The highest of these (sample 101157) results returned a value of 78 ppb gold. The other two anomalous values at 36 ppb Au (sample 101155) and 32 ppb Au (sample 101151) were located upstream from the 78 ppb gold result. No indication of alteration or mineralization were detected around these anomalies during the mapping and rock sampling phase of the exploration program. Again, as with the anomalous soil samples, these results may have been due to transported gold in glacial debris.

2. Copper

The highest copper value returned was 30 ppm Cu. This result, although anomalous when compared to background values, is considered too low for significance.

3. Zinc

As with copper, the highest zinc value (74 ppm Zn) was not considered anomalous enough to be of significance.

4.7 Rock Samples

A total of 44 rock samples were collected during the 1990 exploration program. All of these samples were taken from either the Knob Hill Group or the Marron

volcanics (Plate 1 and 2). All sample sites were flagged and tagged with aluminum tags bearing the corresponding sample numbers. Samples were then shipped to International Plasma Laboratory Ltd. in Vancouver for analysis. Gold was determined by a 30 gram fire assay with fusion preconcentration, followed by an atomic absorption determination. As well, a 30 element ICP analysis was carried out following an aqua regia digestion. Methods of preparation and analysis of samples can be found in Appendix IV.

No anomalous gold values were detected in the samples taken. The highest gold value, at 22 ppb Au, came from sample BC 2059. This sample consisted of chloritized, calcareous and brecciated sediment in the Knob Hill Group with trace pyrite. An anomalous zinc value was detected in sample BC 2065. This sample, which returned a value of 4373 ppm Zn, was taken from a Knob Hill diopside-biotite hornfels with 3 to 5% banded pyrrhotite. As well, this rock sample coincided with a slightly anomalous soil sample of 153 ppm Zn. The highest copper result came from sample BC 2065 at 276 ppm Cu.

A complete list of analytical results can be found in Appendix IV. Rock sample descriptions are located in Appendix III.

5.0 CONCLUSION AND RECOMMENDATIONS

No precious or base metal anomalies of economic merit were detected during the 1990 exploration program on the March Creek property. Mapping and rock sampling indicated the presence of minor skarn and hornfels alteration, along with limited sulphide mineralization within the Knob Hill Group. However, only one rock sample returned an anomalous base metal result of 4373 ppm zinc. This sample, as well as a small zone of slightly anomalous zinc values detected during the soil sampling survey (Grid 1), were not considered to be large enough for economic significance.

One anomalous gold value of 78 ppb Au was detected in the stream sediment sampling portion of the program. Follow-up mapping, rock and soil sampling of the Marron volcanics which surround this anomaly, did not encounter any alteration or mineralization which could verify the anomaly. It is concluded that the gold may have been transported in the large amount of glacial till which fills the valley bottom.

Based upon the minimal results from the 1990 exploration program, the March Creek property is not considered to be a viable target for future exploration. It is therefore recommended, that no further work be carried out on this property.

6.0 REFERENCES

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Appendix I
Statement of Costs

MARCH CREEK PROJECT - STATEMENT OF COSTS FOR ASSESSMENT WORK

MAJOR CATEGORY:	SUB-CATEGORY:	COST:	SUBTOTAL:
Geochemistry	Acme Analytical (229 soil samples @ $9.85)	$2,255.65	
	IPL (39 silt samples @ $12.00)	$468.00	
	IPL (44 rock samples @ $14.00)	$616.00	
	IPL (308 soil samples @ $12.00)	$3,696.00	
	Prime Geochemical (data processing)	$632.50	
			$7,668.15
Geology	housing rental	$300.00	
	vehicle rentals	$2,965.84	
	vehicle fuel + maintenance	$349.36	
	microscope rental	$106.00	
	office supplies	$266.97	
	printing and reproduction	$407.98	
	miscellaneous field/operating supplies	$971.36	
	postage/express/freight	$73.35	
	communications (telephone)	$53.65	
	maps	$11.54	
	field sustenance	$661.42	
	travel costs	$125.86	
	F. Chong (drafting)	$590.23	
	salaried personnel:		
	W. Harris (19 days @ $190.99)	$3,628.80	
	M.E. Caron (6.375 days @ $166.35)	$1,060.48	
	T. Zanger (4 days @ $115.39)	$461.54	
	contract personnel:		
	N. Caron (6 days @ $90.00)	$540.00	
	D. Lucas (21.8 days @ $275.00)	$5,995.00	
			$18,569.38
	TOTAL		$26,237.53

Appendix II
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, DUANE R. LUCAS, do hereby certify that:

1. I am a qualified geologist residing at 4522 West 12th Avenue, Vancouver, B.C., V6R 2R5, with an office at the above address.

2. I am a graduate with a Bachelor of Science degree in Geology from the University of British Columbia and have worked in the mineral industry for 13 years.

3. I am Fellow, in good standing, of the Geological Association of Canada.

4. The data contained with this report was obtained from field work, personal communication and published and unpublished information acknowledged in the section on references.

5. I have no interest, direct or indirect, in Battle Mountain (Canada) Inc., nor do I expect to receive any.

6. The text of this report, as well as any maps and figures contained within this report, may be reproduced by Battle Mountain (Canada) Inc., in their entirety.

January, 1991

Vancouver, B.C.

D.R. Lucas

Duane R. Lucas, B.Sc., F.G.A.C.

Appendix III
Rock Sample Descriptions

FIELD NOTES

PROJECT ...WET Claims..... N.T.S. 82E2.....

DATE August 9, 1990..... AIR PHOTO/MAP.....

LOCALITY..... COLLECTOR ...W.D. Harris.....

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
Δ 9	Hydrothermal Breccia (Argillic?) microfractures pyrite 2-4%		BC2049
1640N	Microbreccia, minor to moderate silicification, vuggy, drusy		
24+25E	quartz (2-4%), no orientation. O/C approximately 5m long x		
	1m wide, sample rx chip 1m		
Δ 9	Hydrothermal Breccia		
1642N	Same as above (BC 2049) Argillic altered, with moderate		BC2050
24+25E	silification, vuggy drusy quartz (2-4%). Chalcedonic quartz		
	along fractures (Epithermal) 1 metre rx chip		
Δ 11	Mylonitic, aphanitic to v.f.g. light green, calcareous layers,		BC2051
16+25N	subporphyritic (v.f.g.) feldspar phenos with euhedral		
21+10E	disseminated pyrite xtals (2-4%) up to 4mm long. Possible		
	andesite - dacite? Foliation @ 315/53°NE		

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2049	Argillic altered (silicified) Knob Hill seds	chalcedonic fractures	v.v.f.g. fractures of pyrite	ARGILLIC ± silicification	micro breccia no orientation	16 + 40 N 24 + 25 E
BC2050	Argillic altered (silicified) Knob Hill seds	chalcedonic fractures vuggy-drusy qtz	v.v.f.g. microfractures of pyrite	ARGILLIC ± silicification	micro breccia vuggy-drusy qtz	16 + 42 N 24 + 25 E
BC2051	Mylonitic andesitic to dacitic	subporphyritic feldspar phenos 5-8%	euhedral disseminated py 2-4% up to 4mm long (diagenetic)	weak - mod chlorite altn	mylonitic 315/53° NE	16 + 25 N 21 + 10 E

FIELD NOTES

PROJECT WET Claims **N.T.S.** 82E/2

DATE August 13, 1990 **AIR PHOTO/MAP**

LOCALITY (B.C.) Greenwood area **COLLECTOR** W. D. Harris

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
18+05N 21+25E	Mylonitic Knob Hill mixed "greenstone" and seeds (quartzites ? and Carbontes) - greenstone strongly chloritized - phyllitic texture. Mylonitic fabric @ 100°/60 NE.		BC2052
18+20N 21+25E	Knob Hill seds of lmst, dolomite and SST. Recrystalized, drusy qtz along fractures. No sulphides. In mylonitic zone @ 280°/60NE		BC2053
18+45N 21+00E	Knob Hill "quartzites" (recrystalized cherts?) thinly (20 to 30 cm) interbedded with mixed sediments largillite, lmst, etc.) Mylonitic fabric @ 300°/50E. No sulphides.		BC2054
18+75N 21+00E	Knob Hill. Recrystalized "brecciated" lmst with trace of quartz fractures mylonite fabric in area @ 300°/50NE		BC2055
19+00N 21+00E	Knob Hill. White massive quartzite appears conformable (possible vein or sweat) Fractured @ 270°/70°S Mylonite fabric @ 305°/50E		BC2056
18+90N 21+00E	Knob Hill "Marble" - Carbonate and green chloritic interlayered approximately 10 metres above section (?) from BC2056 quartzite.		BC2057
24+15N 24+00E	Knob Hill - Recrystalized - mixed "quartzite" and limestone - marble with 2 to 4% fine grained diss py. Breccia fabric. No orientation.		BC2058

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2052	Knob Hill Mixed Greenstone and seds	Chlorite (35%) quartz (35%) CaCo3 (20%)	Occasional trace of v.v.f.g. pyrite	Chloritization of of mafics CacCo3 "marble" So2-recrystallized remobilized	Mylonite @ 280°/60NE	18+05N, 21+25E
BC2053	Knob Hill Seds lmst, dolomite, SST	Quartz 40-60% Si02 20%	None	Manganese staining on weathered recrystallization	Mylonite @ 280°/60NE	18+20N, 21+25E
BC2054	Knob Hill "Quartzites" and mixed seds	Quartz 60-80%	None	Recrystallization	Mylonite @ 300°/50NE	18+45N, 21+00E
BC2055	Knob Hill lmst	CaCo3 80%+	None	Recrystallization	"Breccia" (Mylonitic fabric @ 300°/50NE)	18+75N, 21+00E
BC2056	Knob Hill quartzite	Quartz 95%+	None	None	Fractures @ 270°/70°S Massive (brecciated)	19+00N, 21+00E
BC2057	Knob Hill "Marble"	CaCo3 60%	None	Chloritization layers	Mylonite 305°/50NE	Approx 18+90N, 21+10E
BC2058	Knob Hill mixed seds	Si02 40% CaC03 40%	2.4% disspy	Recrystallized	Brecciated	24+15N, 24+00E

FIELD NOTES

PROJECT WET Claims

DATE August 13, 1990

LOCALITY Greenwood District

N.T.S. 82E2

AIR PHOTO/MAP Grid Location

COLLECTOR W.D. Harris

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
24+10N	Mixed Knob Hill chloritized, calcareous (marble? greenstone?)		BC2059
24+00E	brecciated seds.		
23+80N	Mixed Knob Hill seds, quartzites and "marble" bands, "mylonitic"		BC2060
20+20E	with cholritized fragments.		

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2059	Knob Hill Mixed seds	CaCo3	Trace pg.	chloritized	brecciated	24+10N 24+00E
BC2060	Knob Hill mixed (breccia) seds	SiO2 40-50% CaCo3 15%	None	chloritized clasts	Mylonitic - brecciated	23+80N 20+20E

FIELD NOTES

PROJECT WET Claims

N.T.S. 82E/2

DATE August 14, 1990

AIR PHOTO/MAP Grid

LOCALITY Greenwood district

COLLECTOR W. D. Harris

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
24+40N	Knob Hill - Mixed seds in a breccia - fragment from 1 to 10 mm. Possible qtz stringers (or remobilized - late fracture filling) No orientaion Brecci aTectonic.		BC2061
24+25E			
24+75N	Qtz-latite to dacite medium grained, light (to med) green, equilgranular, with trace py, mal. o/c 1/2 m x 1 m. No orientation (Float?) flow? dyke.		BC2062
24+50E			
24+50N	Marble-greenstone-could be a garnet - diopside (Skarned). Medium to dark green, aphanitie, strongly calcareous.		BC2063
23+00E			
24+15N	Appears to be a garnet-diopside skarned undergone high deformation. No orientation. Tr to 2%. v.f.g. diss & blebs py.		BC2064
22+20E			
23+95N	Diopside-Boitite Hornfels-with strong oxidized weathered surface 3 to 5% diss & banded pyrrhotite outcrop to suboutcrop. No orientation. 1/2 m x 1/2 m o/c.		BC2065
22+00E			
25+25N	Strongly oxidized - (Diopside Hornfels) 1 to 3% v.f.g. diss pyrrhotite (sample similar to BC2065) o/c along skid trail (3m x 1m) along top of ridge.		BC2066
22+25E			

FORM #:

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2061	Knob Hill Breccia	SiO2-25% CaCo3-30%	tr. py. v.f.g. diss.		Breccia vuggy-drusy Qtz. crystals	24+40N, 24+75E
BC2062	Qtz.-latite Dacite	SiO2-30%	tr. v.f.g. py. tr. v.f. mal.	Silicification (Microfractures of SiO2 ± CaCo3)	Equilgranulat (intrusive)	24+75N, 24+50E
BC2063	Knob Hill Marble(?)	CaCo3-40% diopside? garnet?	tr. - 1% v.v.f.g. diss py.	Skarn?-hornfels?	Recrystalized (non-descript)	25+50N, 23+00E
BC2064	Knob Hill Skarn?	CaCo3-35% diopside 35%? Garnet 10%?	tr.-2% v.f.g. py, diss & bleas	skarn?-deformation	Aphanitic pathy light green & reddish brown areas	24+15N, 22+@)E
BC2065	Knob Hill Diopside Hornfels	Diopside - 60% Biotite - 20% CaCo3 - 20%	3-5% po v.f.g. diss & banded	Hornfels Oxidation	Mylonitic? texture	23+95N, 22+00E
BC2066	Knob Hill Diopside	Diopside - 60% CaCo3 - 30%	1-3% v,f,g, po.	Hornfels strongly oxidized	?	25+25N, 22+25E

FIELD NOTES

PROJECT WET Claims N.T.S. 82E/2

DATE August 15, 1990 AIR PHOTO/MAP

LOCALITY Greenwood Districe COLLECTOR Wade D. Harris

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
22+30N 22+40E	Qtz ± mixed seds-brecciated with fractures of vuggy, drusy qtz, and rust staining along fractures. 1% v.v.f.g. py (diss) Non calcareous, non magnetic. No orientation.		BC2067
22+75N 22+00E	Knob Hill graphitic argillite and quarzite thinly banded. 1-3% v.v.f.g. diss py. Mylonitization @ approx. 300/60NE		BC2068
23+00N 21+75E	Knob Hill recrystalized, brecciated quartzite with trace to 1% v.v.f.g. diss pyrite. No orientation - appears to stike parallel with mylonitization.		BC2069
22+95N 21+75E	Knob Hill mixed - mylonitic sediments mod calcareous, 1-3% v.v.f.g. diss py. Mylonitization approx. 300/60NE?		BC2070
23+90N 21+50E	Knob Hill - Diopside - Biotite Hornfels 3% v.f.g. pyrite, mod calcareous (to strong) strongly oxidized.		BC2071
23+93N 21+50E	Knob Hill. Diopside - Biotite Hornfels 3% v.f.g. pyrite - strogly calcareous (non magnetic?) strongly oxidized.		BC2072
23+95N 21+50E	Knob Hill - Biotite - Diopside Hornfels. 1 to 3% v.f.g. banded pyrrhotite, 2-4% v.f.g. py. strongly oxidized.		BC2073

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2067	Knob Hill Qtz(ite) Breccia	Qtz. ± skarn???	1% v.v.f.g. diss. py.	? Recrystalization	Brecciated No orientation	22+30N, 22+40E
BC2068	Knob Hill Argillite (graphitic) and qtzite	Qtz., carbon	1-3% v.v.f.g. diss py.	Mylonitization Recrystalization	Mylonite @ 300/60NE	22+75N, 22+50E
BC2069	Knob Hill Quartzite	Qtz. 90%	Tr. - 1% v.f.g. diss py.	Recrystalization	? Brecciated	23+00N, 21+75E
BC2070	Knob Hill mixed sediments	CaCo3 30%	1-3% v.v.f.g. diss py.	Recrystalization	Vrecciated Mylonitization @ approx. 330/60NE	22+95N, 21+75E
BC2071	Knob Hill Diopside-Biotite Hornfels	Calc silicates	3% v.f.g. py.	Hornfels	Mylonite?	23+90N, 21+50E
BC2072	Knob Hill Diopside Biotite Hornfels	Calc-silicates	3% v.f.g. py.	Hornfels	Mylonite	23+93N, 21+50E
BC2073	Knob Hill Biotite-Diopside Hornfels	Calc-silicates	1-3% banded po, 2-4% v.f.g. py.	Hornfels	Mylonite	23+95N, 21+50E

FIELD NOTES

PROJECT WET Claims N.T.S. 82E/2

DATE August 15, 1990 AIR PHOTO/MAP

LOCALITY Greenwood District COLLECTOR Wade D. Harris

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
24+00N 21+50E	Knob Hill - Biotite - Diopside Hornfels 3-4% v.f.g. pyrite, calcareous.		BC2074
24+05N 21+50E	Knob Hill - Brecciated Quartzite and/or chert - recrystalized and brecciated(?) Intensely microfractive with (2%) v.v.f.g. pyrite in fractures. Rust stain on weathered.		BC2075

FORM #

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC2074	Knob Hill Biotite Diopside Hornfels	Calc-silicates	3-4% v.f.g. py	Hornfels	Mylonitic (brecciated?)	24+00N, 21+50E
BC2075	Knob Hill Brx Qtzite or recrystal chert and brecciated?	SiO2-95%	2% v.v.f.g. py in microfractures	Recrystalization (?) Brecciation	Intensely microfractured	24+05N, 21+50E

FIELD NOTES

PROJECT March Creek Property (WEI Claims) N.T.S. 82E/2W

DATE October 31, 1990 AIR PHOTO/MAP BC88009 No. 020

LOCALITY Greenwood District, B.C. COLLECTOR Duane R. Lucas

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
ADL90-B16	Trachyandesite - brown to grey brown; porphyritic pyroxene (1-3 mm). Feldspar going to clay with carbonate halo. 3-5 mm wide amygdule, usually carbonate filled. Very little silica evident. Occasional thin anastomosing calcite veinlets. No visibel sulphides.		BC0876
south of log landing #17	Intermed Tuff - red-brown. Fine glassy shards in matrix. Possible very fine trace pyrite. Slightly calcareous.		BC0877
ADL90-AO	Andesite - dark grey green, pyroxene phyric. Silica alteration of 25-30%. No visible sulphides. Fine feldspars in matrix.		BC0878
ADL90-C1	Andesite - grey brown w/pyroxene phenocrysts 10-15% (3-4mm). 5% fledspar phenocrysts in aphanitic matrix. Non calcareous. No visible sulphides.		BC0879
ADL90-C1	Trachyandesite - brown to red brown; feldspar phenocrysts 15%. Pyroxene pheno's (1-2%). Feldspar white to yellow going to clay and carbonate . Slightly vesicular and somewhat friable.		Bc0880

FORM #

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC0876	Trachy-andesite	Pyroxene Feldspar(plag.)	None observed	Carbonate	Amygduloidal	Located on Loggins SPUR #6 at ▲DL90-B16
BC0877	Tuff	Minor CaCo3 CaCo3	Trace Pyrite	Minor carbonate	Med-sandy texture	Approx. 250m south of log landing #17
BC0878	Andesite	Pyroxene Feldspar (plag?)	None	Silica-25 to 30%	Pyroxene phyric w/fine crystalline matrix	Approx. 175m SE of log landing #17
BC0879	Andesite	Pyroxene feldspar	None	No observed	Porphyritic	▲DL90-Cl approx. 120m east of log landing #17
BC0880	Trachy-andesitic	Feldsp 15% Pyroxene 1-2%	None	Minor carbonate clay	Porphyritic	▲ DL90-Cl approx. 120m east of log landing #17

FIELD NOTES

PROJECT March Creek (Wet Claims)

N.T.S. 82E/2W

DATE November 1, 1990

AIR PHOTO/MAP BC88009 No. 020

LOCALITY Greenwood District, B.C.

COLLECTOR Duane R. Lucas

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
Δ 2	Trachyandesite/andesite - grey to grey-brown; feldsp pyroxene phyric. Phenocryst (2-4mm). Slightly calcareous. Feldspar generally intact. No visible sulphides. Jointing = 039/90		BC0881
Δ 5	Andesite - Feldspar pyroxene porpyritic. Feldspars glomeroporphyritic. Grey fresh surface; red-brown weathered surface. Predominanat fracturing (minor shearing) at 007/81° west Less dominant component at 038/42 NW. Possible bedding at 176/19 E.		BC0882
Δ 7	*Fault through Andesite - Fault bearing approx. 010°. Lithology - Andesite - Pyroxene feldspar. 10-20% silicification. Minor shearing along fault boundary at 005° to 008°/90.		BC0883

FORM #

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC0881	Trachyandst. /Andst.	Feldspar Pyroxene	None Observed	Pos. Carbonate	Porphyritic	Δ 2
BC0882	Andesite	Feldspar Pyroxene	None Observed	None Observed	Glomero-porphyritic	Δ 5
BC0883	Andesite (Fault)	Pyroxene Feldspar	None Observed	Minor silicifi-cation 10-20%	Porphyritic	Δ 7 Sample taken along edge of Fault.

FIELD NOTES

PROJECT March Creek (Wet Claims) N.T.S. 82E/2W

DATE November 2, 1990 AIR PHOTO/MAP BC88009 No. 020

LOCALITY Greenwood District, B.C. COLLECTOR Duane R. Lucas

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
Δ DL90-D0	Andesite - dk grey mafic matrix w/fine feldspar in matrix. Approx. 5% pyroxene phenocryst very fine pyrite. Minor magnetite (trace). Jointing at 024/55NW		BC0884
Δ DL90-D6	Volc. boulders - angular to subangualr - sheared and weathered orange brown. Silicification to 25%. Limonite/Lemafite abundant. No visible sulphides.		BC0885
Δ DL90-D11	Andesite - dark grey with light brown to rusty weathering. Aphanitic, somewhat glassy matrix. Magnetite to 1%. Feldspars very fine crystalline.		BC0886

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC0884	Andesite	Pyroxene Feldspar Magnetite	Trace Pyrite	None observed	Massive w/ pyroxene pheno's (1-2mm)	DL90-D0 ib March Crk. Rd. 12m west of intersection of Spur 6 and March Crk. Rd.
BC0885	Volc boulders very wthr'd sub-angular to angular	quartz feldspar pyroxene limonite hematite	None observed	Silification to 25%	sheared	DL90-D6 along east side of log landing #25
BC0886	Andesite	Pyroxene Feldspar Magnetite	None observed	None observed	Aphanitic matrix w/ very fine feldspar	DL90-D11

FIELD NOTES

PROJECT March Creek (WET Claims) N.T.S. 82E/2W

DATE November 3, 1990 AIR PHOTO/MAP BC88009 No. 020

LOCALITY Greenwood Dist., B.C. COLLECTOR Duane R. Lucas

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
Δ DL90-E3 (44m W)	Andesitic - dark grey to grey brown. Pyroxene phenocryst (2-4mm) to approx. 5%. Trace magnetite. Small (1-2cm) shears at 022/70 NW.		BC0887
Δ DL90-E1 (15m W)	Andesite - grey brown. 1 to 2 mm pyroxene phenocryst (approx. 3-5%). Fine crystalline feldspar in matrix. 2 shears (1m apart) 3 to 6cm wide at 049/57NW, 019/52 NW.		BC0888
Δ DL90-E3 (26m W)	Andesite - dark grey to grey brown. Pyroxene phenocrsysts equal to feldspar. (1-2mm). Approx. 5% of rock. Trace to 1% magnetite. 2% limonite along fracture surfaces.		BC0889
Δ DL90-E3 (15m W)	Andesite - as in sample BC0889. Shearing at 017/90 w/subset at 036/82 NW.		BC0890

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC0887	Andesite	Pyroxene Magnetite Feldspar	N/O	N/O	Porphyritic Pyrox. Shear at 022/70NW	On March Creek Road. Approx. 44m west of Δ DL90-E3
BC0888	Andesite	Pyroxene Feldspar	N/O	N/O	049/57NW, 019/52NW	On March Creek Road, approx. 15m west Δ DL90-El
BC0889	Andesite	Pyroxene Feldspar Magnetite Limonite	N/O	N/O		On March Creek Road, approx. 26m west of Δ DL90-E3
BC0890	Andesite	Pyroxene Feldspar Magnetite Limonite	N/O	N/O	017/90, 036/82NW	On March Creek Road, approx. 75m west of Δ DL90-E3

FIELD NOTES

75-97

PROJECT March Creek Property (WET Claims) N.T.S. 82E/2W

DATE November 4, 1990 AIR PHOTO/MAP BC88009 No. 020

LOCALITY COLLECTOR Duane R. Lucas

STATION NUMBER	NOTES	STRUCTURAL DATA	SAMPLE NUMBER
	Pyroxene/Feldspar porphyry (Andesitic) - grey to grey-green. 10% Px phenocrysts (up to 4mm) Pyroxene wthr'd. Feldspars going to carbonate.		BC0891
	Pyroxene/feldspar Porphyry - amygduloidal w/ silica (i.e. opal), filling the cavities. Opal shows some creysalization at center of cavities. Matrix bleached.		BC0892

FORM #2

SAMPLE NUMBER	ROCK NAME	MAJOR MINERALS	SULPHIDE MINERALS	ALTERATION	STRUCTURE AND TEXTURE	LOCATION AND REMARKS
BC0891	Andesite /Trachyands.	Pyrox. Feldsp.	N/O	Minor carbonate	Porphyritic	Log landing 80 on Spur 8.
BC0892	Andesite /trachyands.	Silica Pyroxene Feldsp.	N/O	Silica	Amygduloidal	Top of Landing #19 on Spur #9

Appendix IV
Analytical Methods

INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Method of sample preparation for Rock or Core

(a) Water content in sample is removed by convection in a low temperature dryer (T < 60 Degrees C.).

(b) The sample is passed through a jaw crusher. Particle size after this step is not greater than -10 Mesh. A Cone crusher is used to decrease the maximum particle size down to -20 Mesh.

(c) The entire charge is then reduced down to 250g by repeated passes through a riffle splitter. The 250g portion is then pulverized with a Ring Pulverizer until the entire population can pass through a 120 Mesh screen. The sample is then rolled to assure homogenous particle distribution.

QUALITY CONTROL

Cross contamination is minimized by constant cleaning of preparation equipment with high velocity compressed air. Blank charges are frequently run through crushers to remove trapped particles. Ring pulverizers are cleaned with a quartz sand charge.

INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Method of Gold analysis by Fire Assay / AAS

(a) 20.0 to 30.0 grams of sample is mixed with a combination of fluxes in a fusion pot. The sample is then fused at high temperature to form a lead "button".

(b) The precious metals are extracted by cupellation. Any Silver is dissolved by nitric acid and decanted. The gold bead is then dissolved in boiling concentrated aqua regia solution heated by a hot water bath.

(c) The gold in solution is determined with an Atomic Absorption Spectrometer. The gold value, in parts per billion, is calculated by comparision with a set of known gold standards.

QUALITY CONTROL

Every fusion of 24 pots contains 22 samples, one internal standard or blank, and a random reweigh of one of the samples. Samples with anomalous gold values greater than 500 ppb are automatically checked by Fire Assay/AA methods. Samples with gold values greater than 10000 ppb are automatically checked by Fire Assay/Gravimetric methods.

iPL
INTERNATIONAL PLASMA LABORATORY LTD.

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Method of ICP Multi-element Analyses

(a) 0.50 grams of sample is digested with diluted aqua regia solution by heating in a hot water bath for 90 minutes, then cooled, bulked up to a fixed volume with demineralized water, and thoroughly mixed.

(b) The specific elements are determined using an Inductively Coupled Argon Plasma spectrophotometer. All elements are corrected for inter-element interference. All data are subsequently stored onto computer diskette.

* Aqua regia leaching is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

QUALITY CONTROL

The machine is calibrated using six known standards and a blank. Another blank, which was digested with the samples, and a standard are tested before any samples to confirm the calibration. A maximum of 20 samples are analysed, and then a standard, also digested with the samples, is run. A known standard with characteristics best matching the samples is chosen and tested. Another 20 samples are analysed, with the last one being a random reweigh of one of the samples. The standard used at the beginning is rerun. This procedure is repeated for all of the samples.

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Geochemical Methods
Acme Analytical Laboratories Ltd.

Soil Preparation: Dry soil or silt sample up to 1 Kg at 60 deg.C and sieve to -80 mesh.

Rock Preparation: Rocks or cores are crushed to -3/16" and 250 gm is split out. This split is pulverized using a ring mill pulverizer to 99% -100 mesh.

ICP Analysis: 0.50 gm sample is digested with 3ml 3-1-2 HCL-HNO3-H2O at 95 deg.C for one hour and is diluted to 10ml with water. This leach is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K, Al.

Gold Analysis (Fire Geochem): 10 gm is ignited at 600 deg.C for 4 hours and fused with F.A. flux. The dore bead is dissolved in Aqua Regia and analysed by ICP.

Detection limit for	Au	1 ppb
	Pt	3 ppb
	Pd	3 ppb
	Rh	3 ppb

** Larger sample - on special request.

Appendix V
Analytical Results

Soil Analyses

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3001	Soil	4	0.1	0.91	12	107	<2	0.39	<0.1	8	13	16	1.48	<3	0.09	20
3002	Soil	<2	0.1	1.57	19	138	<2	0.33	<0.1	13	21	23	2.23	<3	0.15	32
3003	Soil	<2	<0.1	1.52	17	124	<2	0.31	<0.1	10	19	19	2.09	<3	0.14	27
3004	Soil	<2	0.1	1.31	16	122	<2	0.33	<0.1	10	19	15	2.00	<3	0.15	22
3005	Soil	<2	0.1	1.70	12	127	<2	0.28	<0.1	12	22	19	2.15	<3	0.19	25
3006	Soil	2	<0.1	1.33	9	99	<2	0.38	<0.1	10	21	21	1.74	<3	0.16	17
3007	Soil	4	0.2	1.18	9	106	<2	1.57	0.4	7	25	52	1.42	<3	0.13	12
3008	Soil	2	0.1	1.24	7	102	<2	0.81	<0.1	8	20	30	1.52	<3	0.10	15
3009	Soil	2	0.1	1.61	8	109	<2	0.92	<0.1	6	26	17	1.69	<3	0.11	14
3010	Soil	6	0.1	1.84	8	120	<2	0.82	<0.1	7	23	27	1.59	<3	0.13	16
3011	Soil	2	<0.1	1.65	8	95	<2	0.63	<0.1	7	21	29	1.59	<3	0.12	17
3012	Soil	4	<0.1	1.45	5	88	<2	0.50	<0.1	10	27	19	1.92	<3	0.14	21
3013	Soil	4	<0.1	1.34	6	95	<2	0.55	<0.1	7	27	18	1.77	<3	0.09	22
3014	Soil	2	<0.1	1.49	7	105	<2	0.61	<0.1	6	23	17	1.49	<3	0.11	21
3015	Soil	<2	<0.1	1.44	8	93	<2	0.29	<0.1	6	14	15	1.43	<3	0.09	17
3016	Soil	4	<0.1	1.15	5	102	<2	0.28	<0.1	6	15	12	1.23	<3	0.10	13
3017	Soil	2	<0.1	1.03	<5	108	<2	0.25	<0.1	5	16	9	1.24	<3	0.12	12
3018	Soil	<2	<0.1	0.83	<5	87	<2	0.23	<0.1	5	12	7	1.12	<3	0.07	10
3019	Soil	<2	<0.1	0.91	5	92	<2	0.27	<0.1	8	20	14	1.69	<3	0.15	19
3020	Soil	<2	<0.1	0.95	<5	126	<2	0.51	0.1	8	19	13	1.65	<3	0.12	22
3021	Soil	<2	<0.1	1.03	6	108	<2	0.45	<0.1	8	20	17	1.83	<3	0.18	30
3022	Soil	<2	<0.1	1.09	<5	113	<2	0.61	<0.1	8	22	18	1.70	<3	0.18	26
3023	Soil	<2	<0.1	1.28	<5	137	<2	1.01	<0.1	8	34	13	1.77	<3	0.23	15
3024	Soil	2	<0.1	1.36	<5	117	<2	0.68	<0.1	11	51	16	2.93	<3	0.15	36
3025	Soil	4	0.2	1.14	8	113	3	1.98	<0.1	8	21	22	1.65	<3	0.11	19
3026	Soil	14	0.1	1.37	12	115	<2	0.26	<0.1	10	29	18	2.19	<3	0.07	19
3027	Soil	4	0.1	1.29	8	104	<2	0.31	<0.1	10	30	19	2.08	<3	0.06	18
3028	Soil	<2	0.1	0.79	<5	77	<2	0.62	<0.1	5	16	17	1.00	<3	0.08	7
3029	Soil	<2	0.1	1.05	6	89	<2	0.46	<0.1	6	17	27	1.22	<3	0.06	9
3030	Soil	4	<0.1	1.37	9	111	<2	0.78	<0.1	6	23	56	1.48	<3	0.10	14
3031	Soil	<2	<0.1	1.02	7	108	<2	0.87	0.3	7	20	48	1.26	<3	0.07	13
3032	Soil	<2	0.1	1.70	11	118	<2	0.52	<0.1	12	46	22	2.32	<3	0.15	17
3033	Soil	<2	<0.1	1.48	7	116	<2	0.47	<0.1	9	31	21	1.60	<3	0.15	11
3034	Soil	<2	<0.1	1.23	8	123	<2	0.25	<0.1	9	25	15	1.71	<3	0.13	12
3035	Soil	<2	<0.1	1.10	6	155	<2	0.28	<0.1	9	27	15	1.66	<3	0.14	9
3036	Soil	<2	<0.1	1.56	8	142	<2	0.28	<0.1	11	39	27	2.06	<3	0.17	11
3037	Soil	<2	<0.1	1.35	7	139	<2	0.29	<0.1	11	52	22	2.19	<3	0.24	18
3038	Soil	<2	<0.1	1.58	10	162	<2	0.34	<0.1	15	53	24	2.56	<3	0.21	14
3039	Soil	<2	0.1	1.25	8	165	<2	0.32	<0.1	10	32	20	1.70	<3	0.17	12
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3001	0.24	519	1	0.01	12	0.14	13	<5	1	75	<10	0.05	28	<5	66	2
3002	0.38	661	1	0.01	20	0.19	20	<5	3	69	<10	0.08	40	<5	96	6
3003	0.40	391	1	0.01	17	0.23	13	<5	3	67	<10	0.08	38	<5	93	4
3004	0.38	510	2	0.01	15	0.21	10	<5	2	63	<10	0.08	38	<5	94	3
3005	0.44	489	1	0.01	20	0.12	13	<5	3	61	<10	0.09	40	<5	96	6
3006	0.41	331	1	0.02	20	0.05	7	<5	3	85	<10	0.07	33	<5	77	5
3007	0.51	120	1	0.04	22	0.14	7	<5	2	182	<10	0.05	23	<5	56	3
3008	0.37	203	<1	0.03	21	0.02	8	<5	2	146	<10	0.06	27	<5	41	6
3009	0.49	116	1	0.02	17	0.09	4	<5	2	119	<10	0.06	26	<5	73	4
3010	0.58	103	<1	0.04	24	0.11	8	<5	2	117	<10	0.07	25	<5	94	5
3011	0.55	117	1	0.02	24	0.07	7	<5	2	90	<10	0.07	23	<5	60	5
3012	0.77	268	<1	0.02	37	0.06	7	<5	3	73	<10	0.09	30	<5	53	9
3013	0.48	216	<1	0.02	24	0.06	5	<5	2	117	<10	0.07	31	<5	42	5
3014	0.43	116	<1	0.03	16	0.05	7	<5	2	157	<10	0.07	23	<5	39	7
3015	0.28	214	1	0.02	13	0.15	9	<5	2	73	<10	0.07	27	<5	74	7
3016	0.31	193	1	0.03	10	0.10	6	<5	2	85	<10	0.06	23	<5	59	7
3017	0.29	287	1	0.02	8	0.09	8	<5	2	73	<10	0.06	23	<5	70	4
3018	0.21	244	<1	0.02	7	0.10	5	<5	1	62	<10	0.05	23	<5	63	3
3019	0.32	427	1	0.01	14	0.06	10	<5	2	77	<10	0.07	34	<5	73	2
3020	0.33	721	1	0.01	11	0.11	15	<5	2	180	<10	0.06	33	<5	84	2
3021	0.32	421	2	0.01	14	0.09	10	<5	2	221	<10	0.07	35	<5	65	5
3022	0.32	514	1	0.02	13	0.10	13	<5	3	220	<10	0.05	32	<5	69	4
3023	0.49	728	1	0.02	11	0.11	15	<5	4	293	<10	0.06	28	<5	70	3
3024	0.87	632	1	0.02	17	0.15	6	<5	7	150	<10	0.08	67	<5	47	5
3025	0.45	185	1	0.02	19	0.06	9	<5	2	301	<10	0.06	34	<5	67	5
3026	0.41	280	1	0.01	25	0.25	8	<5	3	70	<10	0.07	44	<5	97	5
3027	0.47	161	1	0.02	26	0.05	7	<5	3	69	<10	0.08	44	<5	66	7
3028	0.26	119	<1	0.02	12	0.02	6	<5	1	87	<10	0.05	19	<5	24	2
3029	0.29	216	<1	0.02	14	0.03	5	<5	2	65	<10	0.06	25	<5	43	4
3030	0.47	100	<1	0.03	20	0.06	6	<5	2	87	<10	0.06	23	<5	44	3
3031	0.40	237	1	0.03	21	0.04	4	<5	1	91	<10	0.05	23	<5	41	2
3032	0.72	288	<1	0.02	35	0.05	4	<5	4	61	<10	0.10	41	<5	90	5
3033	0.45	216	1	0.03	25	0.08	6	<5	2	59	<10	0.08	27	<5	67	4
3034	0.37	258	<1	0.02	21	0.05	8	<5	3	44	<10	0.08	34	<5	67	7
3035	0.40	450	1	0.02	22	0.10	6	<5	2	48	<10	0.07	33	<5	66	2
3036	0.56	442	1	0.02	33	0.14	5	<5	3	46	<10	0.09	41	<5	70	3
3037	0.67	417	1	0.02	36	0.10	6	<5	3	49	<10	0.09	43	<5	70	6
3038	0.77	524	1	0.02	42	0.11	6	<5	4	46	<10	0.10	50	<5	90	4
3039	0.47	456	1	0.02	26	0.11	8	<5	2	45	<10	0.07	33	<5	67	3
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3040	Soil	4	<0.1	1.40	9	181	<2	0.32	<0.1	11	40	26	1.95	<3	0.14	14
3041	Soil	<2	<0.1	1.58	9	153	<2	0.25	<0.1	13	53	29	2.03	<3	0.12	11
3042	Soil	10	<0.1	1.32	19	118	<2	0.17	<0.1	14	53	24	1.73	<3	0.09	8
3043	Soil	12	<0.1	1.45	17	127	5	0.24	<0.1	17	74	25	2.01	<3	0.11	9
3044	Soil	4	<0.1	1.50	15	131	<2	0.27	<0.1	12	52	21	1.99	<3	0.10	7
3045	Soil	4	0.3	1.63	21	116	<2	0.22	<0.1	10	24	29	1.97	<3	0.11	10
3046	Soil	<2	0.1	1.50	12	132	<2	0.29	<0.1	9	33	21	1.69	<3	0.09	6
3047	Soil	<2	<0.1	1.40	14	125	<2	0.27	<0.1	10	31	19	1.79	<3	0.11	6
3048	Soil	6	<0.1	1.04	<5	111	<2	0.29	<0.1	6	17	13	1.45	<3	0.08	5
3049	Soil	2	0.4	1.24	17	164	<2	0.27	0.4	15	19	26	1.72	<3	0.05	5
3050	Soil	2	<0.1	1.47	31	135	<2	0.28	<0.1	11	30	20	1.82	<3	0.08	7
3051	Soil	<2	<0.1	1.30	7	113	<2	0.31	<0.1	12	66	11	1.71	<3	0.10	5
3052	Soil	<2	<0.1	1.15	5	132	<2	0.46	<0.1	11	62	32	1.92	<3	0.18	7
3053	Soil	2	0.1	2.14	8	123	<2	0.36	<0.1	19	61	28	2.54	<3	0.28	16
3054	Soil	<2	<0.1	1.63	8	118	<2	0.30	<0.1	16	51	29	2.16	<3	0.22	15
3055	Soil	<2	<0.1	1.43	5	110	<2	0.35	<0.1	13	33	26	2.07	<3	0.17	14
3056	Soil	<2	<0.1	1.71	7	125	<2	0.42	<0.1	19	52	26	2.39	<3	0.21	13
3057	Soil	16	<0.1	1.49	6	96	<2	0.40	<0.1	15	38	30	2.34	<3	0.20	11
3058	Soil	2	<0.1	1.41	9	104	<2	0.36	<0.1	13	41	25	2.16	<3	0.20	12
3059	Soil	<2	0.1	1.81	10	142	<2	0.53	<0.1	17	57	32	2.74	<3	0.20	11
3060	Soil	<2	0.1	1.79	7	128	<2	0.39	<0.1	16	55	31	2.60	<3	0.22	13
3061	Soil	<2	<0.1	1.17	6	139	<2	0.36	<0.1	11	36	16	1.87	<3	0.17	9
3062	Soil	<2	<0.1	1.60	10	124	<2	0.35	<0.1	14	57	26	2.71	<3	0.20	17
3063	Soil	2	<0.1	1.26	7	130	<2	0.32	<0.1	9	30	22	1.64	<3	0.11	9
3064	Soil	<2	<0.1	1.41	12	144	<2	0.62	0.1	10	31	19	1.85	<3	0.09	9
3065	Soil	2	<0.1	1.54	16	168	<2	0.35	0.2	11	33	25	2.13	<3	0.13	10
3066	Soil	2	<0.1	1.51	30	173	<2	0.30	<0.1	11	38	35	2.19	<3	0.14	15
3067	Soil	2	<0.1	0.67	10	122	<2	0.42	<0.1	5	14	15	1.09	<3	0.06	15
3068	Soil	<2	0.1	1.13	20	108	<2	0.27	<0.1	7	14	24	1.56	<3	0.11	28
3069	Soil	<2	0.1	1.61	19	196	<2	0.41	<0.1	12	37	35	1.98	<3	0.16	17
3070	Soil	4	0.2	0.76	14	149	<2	0.46	0.5	8	15	26	1.37	<3	0.17	20
3071	Soil	8	0.2	1.34	24	146	<2	0.64	0.2	13	28	35	2.34	<3	0.28	32
3072	Soil	6	<0.1	1.21	15	130	<2	0.43	0.3	10	17	19	1.83	<3	0.15	27
3073	Soil	<2	<0.1	0.89	10	113	<2	0.39	<0.1	8	14	16	1.56	<3	0.12	19
3074	Soil	<2	0.1	1.06	11	103	<2	0.33	0.1	8	14	12	1.49	<3	0.13	21
3075	Soil	<2	<0.1	1.22	11	100	<2	0.37	0.1	8	14	15	1.49	<3	0.11	19
3076	Soil	6	<0.1	1.49	13	111	<2	0.32	<0.1	9	15	15	1.68	<3	0.12	24
3077	Soil	<2	<0.1	1.27	13	114	<2	0.36	0.1	7	13	12	1.47	<3	0.10	15
3078	Soil	6	<0.1	0.77	12	95	<2	0.39	0.1	14	8	16	1.14	<3	0.06	15
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3040	0.53	483	1	0.01	31	0.15	7	<5	3	49	<10	0.07	38	<5	73	4
3041	0.61	392	<1	0.01	39	0.14	6	<5	3	40	<10	0.08	36	<5	66	4
3042	0.53	384	1	0.02	57	0.12	7	<5	2	30	<10	0.07	30	<5	52	4
3043	0.82	423	1	0.02	67	0.11	7	<5	4	30	<10	0.06	37	<5	53	4
3044	0.72	448	1	0.01	40	0.07	5	<5	3	30	<10	0.06	37	<5	63	3
3045	0.47	370	1	0.01	24	0.14	9	<5	2	30	<10	0.07	32	<5	96	2
3046	0.42	524	<1	0.01	21	0.13	6	<5	2	38	<10	0.07	31	<5	66	3
3047	0.47	604	1	0.01	18	0.06	5	<5	2	32	<10	0.06	34	<5	64	2
3048	0.32	560	1	0.01	12	0.11	7	<5	2	32	<10	0.06	29	<5	41	2
3049	0.31	945	1	0.01	24	0.14	11	<5	1	32	<10	0.05	28	<5	135	1
3050	0.48	628	1	0.01	30	0.10	4	<5	2	39	<10	0.06	31	<5	68	1
3051	0.53	300	1	0.02	48	0.08	4	<5	2	40	<10	0.06	24	<5	42	3
3052	0.65	1081	1	0.01	41	0.10	6	<5	3	59	<10	0.06	36	<5	101	1
3053	0.75	1195	1	0.01	51	0.08	10	<5	4	41	<10	0.10	51	<5	92	7
3054	0.61	812	1	0.01	46	0.08	6	<5	4	32	<10	0.08	44	<5	49	7
3055	0.50	658	1	0.01	25	0.11	5	<5	3	37	<10	0.08	45	<5	49	2
3056	0.73	1107	1	0.01	39	0.10	6	<5	4	39	<10	0.07	54	<5	56	1
3057	0.69	704	1	0.01	28	0.11	6	<5	5	34	<10	0.08	56	<5	55	3
3058	0.60	590	<1	0.01	28	0.07	8	<5	4	39	<10	0.08	46	<5	49	5
3059	0.78	880	1	0.01	39	0.15	3	<5	4	43	<10	0.09	53	<5	78	3
3060	0.79	634	1	0.01	41	0.12	2	<5	4	43	<10	0.10	52	<5	73	4
3061	0.52	871	1	0.01	27	0.07	13	<5	2	43	<10	0.07	36	<5	70	2
3062	0.78	447	1	0.01	43	0.12	3	<5	4	46	<10	0.10	56	<5	76	4
3063	0.44	445	1	0.02	25	0.15	3	<5	3	60	<10	0.07	32	<5	91	3
3064	0.54	397	1	0.03	34	0.07	10	<5	3	106	<10	0.08	39	<5	193	3
3065	0.60	534	1	0.02	38	0.12	4	<5	3	58	<10	0.09	44	<5	175	3
3066	0.67	528	2	0.02	38	0.15	7	<5	3	55	<10	0.08	47	<5	120	2
3067	0.22	840	1	0.01	11	0.12	15	<5	1	93	<10	0.03	22	<5	78	<1
3068	0.36	591	2	0.02	12	0.13	18	<5	1	59	<10	0.05	34	<5	66	4
3069	0.60	703	2	0.02	24	0.29	10	<5	4	106	<10	0.08	39	<5	101	3
3070	0.32	1023	2	0.02	15	0.13	17	<5	1	93	<10	0.04	25	<5	108	1
3071	0.65	866	2	0.02	25	0.18	20	<5	3	114	<10	0.08	44	<5	116	5
3072	0.32	699	1	0.02	16	0.15	17	<5	2	84	<10	0.07	34	<5	84	3
3073	0.25	597	1	0.01	11	0.15	10	<5	2	76	<10	0.06	31	<5	75	1
3074	0.24	649	1	0.02	14	0.06	14	<5	2	75	<10	0.06	30	<5	71	2
3075	0.25	498	2	0.02	12	0.14	12	<5	2	77	<10	0.06	29	<5	78	3
3076	0.25	661	1	0.02	14	0.08	13	<5	2	63	<10	0.07	33	<5	73	2
3077	0.23	568	1	0.02	11	0.14	9	<5	1	66	<10	0.06	29	<5	75	1
3078	0.17	1229	1	0.02	9	0.12	17	<5	1	70	<10	0.03	20	<5	60	<1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3079	Soil	<2	<0.1	0.85	6	106	<2	0.30	<0.1	6	13	12	1.29	<3	0.08	15
3080	Soil	8	<0.1	1.15	9	118	<2	0.40	<0.1	7	16	17	1.60	<3	0.15	21
3081	Soil	<2	0.1	1.00	5	124	<2	0.30	<0.1	6	14	15	1.46	<3	0.09	19
3082	Soil	<2	0.1	0.86	<5	174	<2	0.26	<0.1	6	9	11	1.14	<3	0.12	15
3083	Soil	<2	<0.1	1.17	5	120	<2	0.34	<0.1	6	13	10	1.28	<3	0.09	15
3084	Soil	2	<0.1	0.82	<5	117	<2	0.26	<0.1	5	12	10	1.20	<3	0.09	12
3085	Soil	8	<0.1	0.98	6	125	<2	0.25	<0.1	5	10	9	1.28	<3	0.06	11
3086	Soil	4	<0.1	0.99	9	101	<2	0.27	<0.1	5	15	8	1.35	<3	0.07	14
3087	Soil	4	<0.1	0.97	12	106	<2	0.55	0.4	9	13	17	1.42	<3	0.08	18
3088	Soil	2	0.1	1.17	11	107	<2	0.41	0.2	10	15	19	1.62	<3	0.12	26
3089	Soil	52	<0.1	1.33	8	97	<2	0.30	0.1	8	22	14	1.74	<3	0.08	19
3090	Soil	2	0.4	1.11	6	159	<2	0.39	0.2	8	16	16	1.33	<3	0.22	11
3091	Soil	<2	<0.1	1.43	8	119	<2	0.42	0.2	10	21	19	1.73	<3	0.16	28
3092	Soil	<2	<0.1	1.02	<5	127	<2	0.41	<0.1	8	12	19	1.27	<3	0.18	14
3093	Soil	<2	0.1	1.01	5	119	<2	0.50	0.3	8	17	19	1.54	<3	0.12	20
3094	Soil	<2	<0.1	0.78	<5	91	<2	0.55	<0.1	5	12	15	1.32	<3	0.08	15
3095	Soil	<2	<0.1	0.81	5	116	<2	0.47	0.1	5	13	15	1.24	<3	0.12	13
3096	Soil	<2	<0.1	1.31	<5	117	<2	0.37	0.1	7	15	14	1.57	<3	0.13	23
3097	Soil	<2	<0.1	1.54	5	83	<2	0.35	<0.1	6	16	9	1.67	<3	0.16	23
3098	Soil	6	0.1	1.43	<5	102	<2	0.62	<0.1	8	30	12	2.18	<3	0.27	29
3099	Soil	<2	0.1	1.90	6	127	<2	0.76	<0.1	14	56	18	3.25	<3	0.39	54
3100	Soil	2	0.1	1.65	<5	163	<2	0.94	<0.1	19	85	23	3.96	<3	0.25	36
3101	Soil	<2	<0.1	1.52	<5	156	<2	0.71	<0.1	15	82	15	3.07	<3	0.28	26
3102	Soil	<2	<0.1	1.25	<5	125	<2	0.59	<0.1	5	10	14	1.20	<3	0.21	27
3103	Soil	<2	<0.1	2.07	7	95	<2	0.51	<0.1	8	13	14	1.78	<3	0.15	51
3104	Soil	<2	0.1	1.38	8	80	<2	0.25	<0.1	7	18	8	1.82	<3	0.10	27
3105	Soil	<2	0.1	1.02	<5	85	<2	0.23	<0.1	5	12	7	1.40	<3	0.05	15
3106	Soil	2	<0.1	1.27	<5	108	<2	0.31	<0.1	6	14	10	1.58	<3	0.09	19
3107	Soil	2	<0.1	1.60	7	124	<2	0.27	<0.1	6	10	12	1.33	<3	0.11	16
3108	Soil	<2	0.1	1.22	<5	87	<2	0.25	<0.1	7	9	9	1.23	<3	0.15	9
3109	Soil	<2	<0.1	1.27	<5	92	<2	0.28	<0.1	7	10	10	1.26	<3	0.16	13
3110	Soil	2	<0.1	1.01	<5	79	<2	0.34	<0.1	4	6	10	0.92	<3	0.10	11
3111	Soil	2	<0.1	0.90	<5	87	<2	0.32	<0.1	4	6	10	0.84	<3	0.09	9
3112	Soil	4	0.1	0.77	<5	80	<2	0.26	<0.1	3	5	8	0.76	<3	0.08	6
3113	Soil	<2	<0.1	0.82	<5	83	<2	0.28	<0.1	3	5	9	0.80	<3	0.09	8
3114	Soil	<2	<0.1	0.80	5	85	<2	0.34	<0.1	5	14	10	1.31	<3	0.16	16
3115	Soil	<2	0.1	1.73	<5	115	<2	0.46	<0.1	12	53	13	2.73	<3	0.19	30
3116	Soil	4	<0.1	1.18	5	150	<2	0.33	<0.1	6	17	10	1.45	<3	0.14	16
3117	Soil	<2	0.1	1.16	5	174	<2	0.49	0.1	6	17	12	1.42	<3	0.15	15
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3079	0.21	493	1	0.01	10	0.05	9	<5	1	58	<10	0.05	28	<5	53	2
3080	0.28	424	1	0.01	14	0.11	10	<5	2	91	<10	0.06	32	<5	71	5
3081	0.23	474	1	0.01	11	0.14	8	<5	2	65	<10	0.06	30	<5	71	3
3082	0.17	668	<1	0.01	9	0.09	7	<5	1	92	<10	0.05	22	<5	69	2
3083	0.21	390	<1	0.01	11	0.16	10	<5	1	79	<10	0.06	24	<5	56	4
3084	0.19	398	1	0.01	11	0.13	22	<5	1	57	<10	0.06	25	<5	58	4
3085	0.18	547	<1	0.01	7	0.13	5	<5	1	47	<10	0.06	27	<5	59	1
3086	0.22	383	1	0.01	10	0.11	8	<5	1	51	<10	0.06	28	<5	51	2
3087	0.23	911	1	0.02	13	0.09	17	<5	1	95	<10	0.05	27	<5	84	2
3088	0.27	660	2	0.01	16	0.12	16	<5	2	89	<10	0.06	30	<5	81	2
3089	0.37	477	1	0.01	20	0.12	12	<5	2	67	<10	0.08	34	<5	72	3
3090	0.42	966	1	0.01	24	0.12	11	<5	1	75	<10	0.07	24	<5	103	3
3091	0.37	612	1	0.01	20	0.11	16	<5	2	81	<10	0.08	34	<5	85	5
3092	0.36	609	1	0.01	19	0.12	9	<5	1	96	<10	0.06	23	<5	94	3
3093	0.28	780	1	0.01	14	0.13	14	<5	1	108	<10	0.06	31	<5	92	2
3094	0.26	454	1	0.01	11	0.11	8	<5	1	201	<10	0.05	27	<5	62	1
3095	0.22	536	1	0.01	10	0.15	11	<5	1	162	<10	0.05	26	<5	82	3
3096	0.27	518	1	0.01	11	0.11	11	<5	2	131	<10	0.07	32	<5	60	3
3097	0.36	382	1	0.02	8	0.04	9	<5	2	139	<10	0.06	26	<5	43	5
3098	0.61	561	<1	0.02	10	0.10	12	<5	4	304	<10	0.06	35	<5	61	3
3099	1.24	713	1	0.04	16	0.22	12	<5	6	276	<10	0.08	72	<5	80	6
3100	1.75	911	2	0.04	22	0.25	3	<5	10	171	<10	0.09	105	<5	77	4
3101	1.43	984	1	0.03	18	0.20	11	<5	8	102	<10	0.08	75	<5	64	3
3102	0.21	792	1	0.02	7	0.10	17	<5	1	363	<10	0.04	21	<5	71	3
3103	0.33	979	1	0.08	9	0.11	23	<5	1	404	<10	0.05	37	<5	71	3
3104	0.29	519	1	0.01	11	0.08	13	<5	2	68	<10	0.07	40	<5	45	1
3105	0.23	437	1	0.01	8	0.06	10	<5	1	62	<10	0.06	30	<5	39	2
3106	0.25	413	1	0.01	9	0.12	6	<5	1	80	<10	0.07	32	<5	48	2
3107	0.31	684	1	0.01	17	0.26	12	<5	1	120	<10	0.08	24	<5	81	5
3108	0.46	495	4	0.01	26	0.06	9	<5	1	136	<10	0.07	20	<5	51	1
3109	0.48	585	4	0.01	29	0.06	11	<5	1	146	<10	0.07	20	<5	54	2
3110	0.15	336	<1	0.02	6	0.09	11	<5	1	144	<10	0.05	18	<5	31	2
3111	0.14	432	1	0.02	6	0.08	7	<5	1	138	<10	0.04	17	<5	33	1
3112	0.12	389	<1	0.02	5	0.08	8	<5	1	115	<10	0.04	16	<5	30	1
3113	0.13	404	1	0.02	5	0.08	7	<5	1	124	<10	0.04	16	<5	35	1
3114	0.22	424	1	0.01	9	0.08	9	<5	1	95	<10	0.05	29	<5	37	2
3115	0.84	596	1	0.02	18	0.11	7	<5	6	93	<10	0.10	61	<5	60	6
3116	0.27	767	1	0.01	10	0.07	9	<5	2	71	<10	0.07	28	<5	59	3
3117	0.28	910	1	0.01	10	0.07	15	<5	2	99	<10	0.06	27	<5	81	2
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3118	Soil	<2	0.1	1.19	5	154	<2	0.37	<0.1	6	17	10	1.45	<3	0.12	15
3119	Soil	18	0.1	0.99	5	109	<2	0.34	<0.1	5	13	10	1.42	<3	0.08	17
3120	Soil	<2	0.1	1.20	5	95	<2	0.31	<0.1	6	13	11	1.42	<3	0.09	17
3121	Soil	2	<0.1	1.15	<5	112	<2	0.33	<0.1	6	12	11	1.34	<3	0.11	15
3122	Soil	<2	0.1	1.05	5	141	<2	0.39	<0.1	5	12	10	1.29	<3	0.11	13
3123	Soil	<2	<0.1	1.19	5	117	<2	0.30	<0.1	6	13	10	1.37	<3	0.09	15
3124	Soil	<2	<0.1	1.26	5	114	<2	0.37	0.3	8	37	12	1.49	<3	0.13	13
3125	Soil	<2	<0.1	0.94	8	141	<2	0.45	<0.1	6	11	13	1.18	<3	0.08	16
3126	Soil	<2	<0.1	1.01	6	123	<2	0.32	<0.1	6	15	15	1.48	<3	0.10	20
3127	Soil	<2	0.1	1.18	8	108	<2	0.21	<0.1	6	11	9	1.33	<3	0.09	12
3128	Soil	2	<0.1	0.80	6	141	<2	0.35	0.2	6	9	14	1.13	<3	0.13	23
3129	Soil	4	<0.1	1.01	9	105	<2	0.28	<0.1	6	11	16	1.36	<3	0.08	18
3130	Soil	4	<0.1	0.82	11	176	<2	0.30	<0.1	6	10	18	1.16	<3	0.07	17
3131	Soil	4	<0.1	1.27	11	143	<2	0.31	<0.1	9	24	18	1.86	<3	0.16	17
3132	Soil	2	0.1	1.96	16	164	<2	0.36	<0.1	16	48	27	2.63	<3	0.27	14
3133	Soil	6	<0.1	1.96	17	177	<2	0.50	<0.1	18	41	51	3.40	<3	0.43	23
3134	Soil	<2	0.2	1.06	9	340	<2	0.30	0.6	6	28	25	1.78	<3	0.13	8
3135	Soil	8	0.1	1.12	8	108	<2	0.45	0.3	10	22	30	1.79	<3	0.19	16
3136	Soil	2	<0.1	1.07	7	90	<2	0.48	<0.1	6	18	13	1.31	<3	0.09	8
3137	Soil	<2	0.1	0.60	<5	76	<2	0.36	<0.1	4	7	6	0.86	<3	0.10	3
3138	Soil	<2	0.1	0.72	5	95	<2	0.22	<0.1	5	15	11	0.92	<3	0.09	4
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3118	0.27	749	1	0.01	11	0.07	9	<5	2	77	<10	0.06	28	<5	62	3
3119	0.20	371	1	0.01	8	0.12	8	<5	1	63	<10	0.06	30	<5	45	2
3120	0.23	361	1	0.01	9	0.13	8	<5	1	56	<10	0.07	30	<5	45	4
3121	0.23	443	2	0.01	9	0.12	11	<5	2	68	<10	0.07	28	<5	44	6
3122	0.22	572	1	0.01	9	0.12	10	<5	1	85	<10	0.06	26	<5	50	4
3123	0.21	610	1	0.01	9	0.13	7	<5	1	53	<10	0.06	28	<5	54	2
3124	0.48	848	1	0.02	25	0.06	14	<5	2	62	<10	0.06	29	<5	70	2
3125	0.20	854	1	0.01	9	0.13	9	<5	1	108	<10	0.05	22	<5	75	2
3126	0.24	499	1	0.01	11	0.15	9	<5	2	68	<10	0.06	30	<5	68	3
3127	0.20	651	1	0.01	9	0.08	9	<5	1	43	<10	0.06	27	<5	65	1
3128	0.19	987	1	0.01	10	0.08	16	<5	1	76	<10	0.04	20	<5	122	1
3129	0.23	370	1	0.02	10	0.14	9	<5	2	58	<10	0.06	27	<5	69	3
3130	0.23	817	1	0.02	8	0.14	14	<5	1	70	<10	0.05	24	<5	92	2
3131	0.50	501	1	0.02	19	0.15	10	<5	2	60	<10	0.08	39	<5	70	3
3132	0.99	648	1	0.02	32	0.14	3	<5	4	51	<10	0.12	58	<5	76	4
3133	1.10	960	1	0.02	36	0.12	8	<5	5	55	<10	0.11	60	<5	134	5
3134	0.43	567	3	0.01	26	0.13	5	<5	2	48	<10	0.05	52	<5	146	2
3135	0.49	307	1	0.02	30	0.06	8	<5	3	70	<10	0.07	39	<5	100	6
3136	0.29	161	1	0.02	17	0.04	4	<5	2	71	<10	0.06	26	<5	49	7
3137	0.18	136	<1	0.04	7	0.01	6	<5	1	83	<10	0.05	17	<5	36	2
3138	0.18	405	1	0.03	11	0.09	14	<5	1	47	<10	0.04	20	<5	48	1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3139	Soil	2	<0.1	1.28	<5	111	11	0.52	<0.1	11	44	16	2.10	<3	0.26	22
3140	Soil	<2	<0.1	1.15	<5	101	10	0.47	<0.1	10	38	15	1.88	<3	0.24	20
3141	Soil	2	<0.1	0.95	<5	88	9	0.41	<0.1	7	30	12	1.58	<3	0.18	14
3142	Soil	<2	<0.1	1.38	<5	118	8	0.50	<0.1	11	46	17	2.20	<3	0.27	23
3143	Soil	<2	<0.1	1.15	<5	104	7	0.26	<0.1	5	11	11	1.18	<3	0.09	10
3144	Soil	<2	<0.1	1.15	<5	101	<2	0.22	<0.1	5	10	11	1.16	<3	0.10	11
3145	Soil	<2	<0.1	0.99	<5	106	6	0.28	<0.1	6	10	12	1.17	<3	0.07	12
3146	Soil	<2	<0.1	1.09	<5	102	2	0.31	<0.1	5	11	10	1.27	<3	0.07	12
3147	Soil	<2	<0.1	1.35	<5	94	5	0.42	0.1	9	32	13	1.82	<3	0.23	20
3148	Soil	<2	<0.1	1.09	<5	101	3	0.34	<0.1	6	11	12	1.22	<3	0.12	12
3149	Soil	2	<0.1	1.08	<5	91	<2	0.33	<0.1	5	13	9	1.29	<3	0.11	12
3150	Soil	<2	<0.1	1.30	<5	78	4	0.33	<0.1	7	16	11	1.63	<3	0.09	16
3151	Soil	2	<0.1	0.75	<5	120	4	0.51	0.3	5	9	13	1.03	<3	0.09	9
3152	Soil	2	<0.1	0.94	<5	113	12	0.34	0.1	5	11	9	1.15	<3	0.12	11
3153	Soil	4	0.1	1.02	<5	127	<2	0.32	<0.1	4	11	9	1.22	<3	0.06	9
3154	Soil	<2	0.1	1.05	<5	85	2	0.24	<0.1	5	13	10	1.35	<3	0.07	12
3155	Soil	2	<0.1	1.02	<5	111	5	0.18	<0.1	5	11	10	1.10	<3	0.09	9
3156	Soil	<2	<0.1	0.82	<5	82	3	0.23	0.1	5	10	8	1.10	<3	0.07	8
3157	Soil	2	0.1	0.84	6	111	<2	0.32	0.1	9	10	15	1.18	<3	0.07	13
3158	Soil	2	<0.1	0.92	<5	52	<2	0.26	<0.1	6	12	7	1.08	<3	0.11	11
3159	Soil	<2	0.1	1.35	8	160	<2	0.41	0.1	15	25	28	2.29	<3	0.18	15
3160	Soil	<2	<0.1	1.10	<5	93	<2	0.23	<0.1	9	30	14	1.47	<3	0.09	7
3161	Soil	6	<0.1	1.74	8	253	7	0.52	0.2	25	102	45	2.74	<3	0.46	11
3162	Soil	4	<0.1	1.11	<5	76	3	0.26	<0.1	9	34	14	1.61	<3	0.10	10
3163	Soil	4	0.1	1.19	<5	74	3	0.27	<0.1	10	36	16	1.74	<3	0.11	13
3164	Soil	<2	<0.1	1.15	11	194	2	0.31	0.4	11	27	26	1.89	<3	0.24	14
3165	Soil	<2	<0.1	1.26	12	93	<2	0.31	<0.1	10	22	20	1.90	<3	0.14	16
3166	Soil	<2	0.1	0.94	<5	169	<2	0.36	0.1	9	11	13	1.42	<3	0.19	10
3167	Soil	<2	<0.1	1.74	8	220	<2	0.46	0.3	17	26	30	2.39	<3	0.30	18
3168	Soil	2	0.2	1.25	17	132	<2	0.35	0.2	12	39	30	1.95	<3	0.14	13
3169	Soil	<2	0.1	2.02	7	226	2	0.52	0.4	18	29	35	2.70	<3	0.31	20
3170	Soil	<2	<0.1	1.35	11	167	4	0.44	0.2	15	27	28	2.40	<3	0.18	16
3171	Soil	<2	<0.1	1.16	11	168	<2	0.32	0.1	11	28	27	1.92	<3	0.21	13
3172	Soil	<2	<0.1	1.29	20	113	<2	0.37	<0.1	12	40	30	2.00	<3	0.13	14
3173	Soil	2	<0.1	1.89	13	240	<2	0.50	<0.1	25	111	51	2.97	<3	0.45	11
3174	Soil	<2	<0.1	1.21	13	150	<2	0.28	0.2	12	41	20	1.78	<3	0.16	10
3175	Soil	<2	<0.1	1.22	13	153	5	0.33	0.4	12	42	20	1.77	<3	0.15	9
3176	Soil	<2	<0.1	1.74	<5	136	<2	0.38	0.1	14	51	25	2.11	<3	0.15	13
3177	Soil	<2	<0.1	1.62	<5	138	<2	0.40	0.3	13	49	23	1.99	<3	0.15	11
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3139	0.68	418	13	0.04	13	0.10	14	<5	5	208	<10	0.08	40	5	63	6
3140	0.60	379	12	0.04	11	0.10	6	<5	5	180	<10	0.07	37	8	58	5
3141	0.48	293	8	0.04	9	0.09	5	<5	4	157	<10	0.06	31	<5	48	3
3142	0.71	352	11	0.04	12	0.13	5	<5	6	196	<10	0.08	41	<5	65	5
3143	0.19	452	6	0.03	8	0.14	7	<5	1	56	<10	0.07	25	<5	66	4
3144	0.19	369	6	0.03	7	0.14	6	<5	1	49	<10	0.06	24	<5	62	4
3145	0.17	554	6	0.03	7	0.11	6	<5	1	54	<10	0.06	25	<5	61	1
3146	0.19	538	5	0.03	10	0.13	6	<5	1	58	<10	0.06	27	<5	62	1
3147	0.53	468	7	0.03	13	0.08	7	<5	4	171	<10	0.07	34	<5	83	3
3148	0.20	394	5	0.02	8	0.16	6	<5	1	80	<10	0.06	26	<5	64	4
3149	0.23	482	4	0.02	11	0.11	9	<5	1	57	<10	0.07	28	<5	52	2
3150	0.25	497	5	0.02	11	0.08	8	<5	2	57	<10	0.08	36	<5	54	2
3151	0.15	850	4	0.03	7	0.09	8	<5	1	87	<10	0.05	22	<5	84	1
3152	0.18	654	4	0.03	9	0.09	12	<5	1	62	<10	0.06	25	<5	65	1
3153	0.18	466	4	0.03	6	0.20	7	<5	1	76	<10	0.06	26	<5	61	2
3154	0.20	322	5	0.02	8	0.12	6	<5	1	47	<10	0.07	29	<5	56	2
3155	0.18	357	4	0.02	9	0.13	6	<5	1	53	<10	0.06	22	<5	82	5
3156	0.17	484	4	0.03	8	0.14	7	<5	1	48	<10	0.06	25	<5	63	1
3157	0.18	901	4	0.03	8	0.20	13	<5	1	64	<10	0.05	23	<5	95	1
3158	0.20	300	3	0.02	9	0.03	6	<5	1	51	<10	0.06	22	<5	53	2
3159	0.59	546	6	0.03	23	0.15	5	<5	3	58	<10	0.10	46	<5	94	2
3160	0.38	520	4	0.03	23	0.08	4	<5	2	26	<10	0.07	31	<5	71	1
3161	1.20	1060	7	0.02	84	0.10	7	<5	4	75	<10	0.14	64	<5	111	2
3162	0.40	358	4	0.02	25	0.07	4	<5	2	32	<10	0.07	34	<5	52	3
3163	0.43	336	4	0.02	27	0.07	5	<5	2	33	<10	0.08	37	<5	52	3
3164	0.42	663	5	0.03	25	0.14	6	<5	2	44	<10	0.07	40	<5	91	3
3165	0.43	377	5	0.02	22	0.13	6	<5	3	46	<10	0.08	41	<5	77	5
3166	0.34	742	3	0.03	9	0.13	8	<5	2	58	<10	0.08	28	<5	103	1
3167	0.64	627	6	0.03	26	0.25	7	<5	4	86	<10	0.10	45	<5	117	4
3168	0.45	733	6	0.02	33	0.09	7	<5	3	43	<10	0.07	44	<5	85	3
3169	0.74	602	7	0.03	30	0.27	8	<5	4	97	<10	0.11	49	<5	131	4
3170	0.61	576	6	0.03	24	0.15	5	<5	3	65	<10	0.09	49	<5	93	2
3171	0.44	584	4	0.02	25	0.14	5	<5	3	49	<10	0.08	41	<5	85	3
3172	0.47	607	5	0.02	34	0.09	5	<5	3	44	<10	0.08	45	<5	82	2
3173	1.29	873	6	0.02	94	0.10	4	<5	5	72	<10	0.15	69	<5	109	3
3174	0.47	479	4	0.03	45	0.11	5	<5	2	35	<10	0.08	37	<5	112	3
3175	0.48	565	4	0.03	46	0.12	6	<5	2	41	<10	0.08	37	<5	115	3
3176	0.61	663	4	0.02	38	0.12	6	<5	3	42	<10	0.10	44	<5	90	2
3177	0.57	834	4	0.02	36	0.11	8	<5	2	42	<10	0.09	42	<5	88	1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3178	Soil	<2	<0.1	1.48	<5	125	<2	0.36	0.2	12	45	21	1.88	<3	0.14	10
3179	Soil	2	<0.1	1.49	<5	120	<2	0.33	<0.1	12	44	20	1.87	<3	0.13	10
3180	Soil	2	<0.1	1.54	6	142	9	0.40	0.2	12	47	21	1.94	<3	0.15	10
3181	Soil	2	<0.1	1.59	<5	130	4	0.36	0.1	13	48	22	1.99	<3	0.13	11
3182	Soil	<2	<0.1	1.20	<5	85	<2	0.24	<0.1	10	34	15	1.56	<3	0.10	8
3183	Soil	8	<0.1	1.22	<5	127	<2	0.34	0.1	9	29	16	1.43	<3	0.09	7
3184	Soil	<2	<0.1	1.21	<5	129	4	0.35	0.2	9	28	15	1.44	<3	0.10	8
3185	Soil	<2	<0.1	1.17	<5	119	3	0.31	0.3	9	27	15	1.38	<3	0.08	7
3186	Soil	<2	0.1	1.20	<5	104	<2	0.28	<0.1	8	27	16	1.41	<3	0.07	6
3187	Soil	<2	<0.1	1.20	<5	125	<2	0.32	0.1	8	28	15	1.42	<3	0.07	6
3188	Soil	2	0.1	0.53	<5	92	<2	0.35	<0.1	6	8	17	0.86	<3	0.06	3
3189	Soil	2	<0.1	1.19	<5	110	<2	0.32	<0.1	10	33	17	1.56	<3	0.12	9
3190	Soil	<2	<0.1	1.21	<5	125	<2	0.34	0.2	10	36	18	1.60	<3	0.13	10
3191	Soil	2	<0.1	1.48	<5	83	<2	0.38	0.2	15	58	24	2.06	<3	0.16	10
3192	Soil	8	<0.1	1.78	5	94	3	0.47	0.2	17	69	31	2.55	<3	0.24	14
3193	Soil	<2	<0.1	1.32	<5	89	<2	0.31	<0.1	12	47	22	1.90	<3	0.19	9
3194	Soil	4	<0.1	1.06	<5	92	<2	0.34	<0.1	5	7	10	0.97	<3	0.09	17
3195	Soil	2	<0.1	1.46	<5	98	<2	0.34	0.1	6	9	11	1.26	<3	0.10	25
3196	Soil	6	<0.1	1.89	<5	98	<2	0.33	0.1	7	11	11	1.54	<3	0.17	36
3197	Soil	2	<0.1	2.25	<5	76	<2	0.34	<0.1	7	11	14	1.55	<3	0.19	46
3198	Soil	<2	<0.1	2.01	5	64	2	0.47	0.1	7	9	15	1.53	<3	0.17	41
3199	Soil	4	<0.1	0.45	<5	36	<2	0.34	0.1	3	3	10	0.56	<3	0.10	9
3200	Soil	12	<0.1	1.78	<5	52	2	0.48	<0.1	12	39	13	2.26	<3	0.16	19
3201	Soil	2	<0.1	1.30	<5	78	<2	0.32	0.3	7	18	11	1.57	<3	0.13	18
3202	Soil	<2	<0.1	1.16	<5	84	<2	0.35	0.1	8	13	12	1.43	<3	0.16	17
3203	Soil	<2	<0.1	2.04	5	83	3	0.47	<0.1	11	37	13	2.49	<3	0.21	31
3204	Soil	<2	<0.1	0.49	<5	47	<2	0.29	<0.1	3	6	6	0.67	<3	0.08	4
3205	Soil	8	<0.1	1.02	<5	62	<2	0.29	<0.1	6	15	9	1.51	<3	0.13	20
3206	Soil	2	<0.1	1.25	<5	100	<2	0.30	0.1	8	26	11	1.50	<3	0.16	10
3207	Soil	<2	<0.1	2.04	<5	70	<2	0.28	<0.1	9	19	10	1.72	<3	0.17	8
3208	Soil	<2	<0.1	1.13	<5	70	<2	0.28	<0.1	6	14	10	1.44	<3	0.10	15
3209	Soil	<2	<0.1	1.00	<5	78	<2	0.34	<0.1	6	14	10	1.47	<3	0.10	16
3210	Soil	<2	<0.1	1.13	<5	58	3	0.22	0.2	7	20	9	1.42	<3	0.14	13
3211	Soil	4	0.1	1.09	<5	78	<2	0.34	<0.1	6	11	11	1.20	<3	0.12	12
3212	Soil	2	0.1	0.34	<5	49	<2	0.22	0.4	4	4	9	0.57	<3	0.07	5
3213	Soil	4	<0.1	1.30	<5	99	<2	0.26	0.2	9	36	15	1.72	<3	0.18	13
3214	Soil	2	<0.1	1.09	7	74	7	0.23	0.1	7	13	10	1.29	<3	0.10	16
3215	Soil	<2	<0.1	1.16	5	72	<2	0.28	<0.1	6	14	10	1.49	<3	0.08	15
3216	Soil	<2	<0.1	0.72	<5	88	<2	0.14	0.2	10	7	11	1.01	<3	0.07	11
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3178	0.53	728	4	0.02	32	0.09	7	<5	2	38	<10	0.08	39	<5	78	1
3179	0.52	684	3	0.02	32	0.13	6	<5	2	34	<10	0.09	39	<5	84	1
3180	0.55	785	4	0.02	34	0.11	8	<5	2	43	<10	0.08	40	<5	85	1
3181	0.56	735	4	0.02	36	0.11	6	<5	2	38	<10	0.09	42	<5	87	1
3182	0.42	473	3	0.03	24	0.08	4	<5	2	27	<10	0.08	34	<5	69	1
3183	0.36	732	4	0.03	16	0.13	5	<5	1	34	<10	0.06	31	<5	65	<1
3184	0.35	757	4	0.03	16	0.12	5	<5	1	34	<10	0.06	31	<5	69	<1
3185	0.34	744	3	0.03	16	0.11	5	<5	1	30	<10	0.06	30	<5	62	<1
3186	0.34	729	3	0.02	15	0.11	5	<5	1	28	<10	0.06	31	<5	61	<1
3187	0.35	784	3	0.02	16	0.12	6	<5	1	32	<10	0.06	30	<5	64	<1
3188	0.15	1192	2	0.03	5	0.09	2	<5	1	34	<10	0.04	21	<5	63	<1
3189	0.39	693	3	0.02	23	0.09	4	<5	2	35	<10	0.08	33	<5	64	1
3190	0.43	790	3	0.02	26	0.09	7	<5	2	37	<10	0.07	35	<5	71	1
3191	0.66	785	4	0.03	41	0.06	5	<5	2	35	<10	0.10	47	<5	70	1
3192	0.80	765	4	0.02	53	0.10	7	<5	4	46	<10	0.10	55	<5	81	1
3193	0.55	544	3	0.02	37	0.08	3	<5	3	47	<10	0.08	39	<5	78	2
3194	0.15	630	2	0.03	5	0.06	7	<5	1	176	<10	0.05	21	<5	44	1
3195	0.20	754	3	0.03	6	0.06	11	<5	1	129	<10	0.06	27	<5	56	1
3196	0.27	704	3	0.02	8	0.08	14	<5	1	160	<10	0.07	30	<5	52	1
3197	0.27	625	3	0.03	7	0.08	13	<5	2	138	<10	0.07	28	<5	55	5
3198	0.25	711	3	0.03	7	0.08	18	<5	1	229	<10	0.06	26	<5	70	1
3199	0.08	366	2	0.04	3	0.07	5	<5	<1	180	<10	0.03	14	<5	28	<1
3200	0.63	433	4	0.05	22	0.02	6	<5	4	362	<10	0.12	45	<5	59	7
3201	0.31	621	4	0.02	12	0.09	13	<5	1	99	<10	0.07	35	<5	59	1
3202	0.46	568	3	0.03	19	0.10	14	<5	1	127	<10	0.06	28	<5	72	3
3203	0.72	424	4	0.02	16	0.09	13	<5	4	158	<10	0.10	50	<5	66	3
3204	0.10	238	1	0.03	3	0.11	4	<5	1	119	<10	0.04	17	<5	39	1
3205	0.23	343	3	0.02	9	0.06	12	<5	2	96	<10	0.07	33	<5	40	2
3206	0.44	749	3	0.03	17	0.10	8	<5	2	69	<10	0.06	32	<5	81	2
3207	0.47	259	3	0.03	22	0.05	5	<5	2	89	<10	0.10	28	<5	68	8
3208	0.21	303	3	0.02	10	0.16	5	<5	2	66	<10	0.07	31	<5	53	6
3209	0.22	563	3	0.02	9	0.10	10	<5	1	63	<10	0.07	32	<5	47	1
3210	0.32	291	3	0.02	12	0.06	6	<5	2	45	<10	0.07	31	<5	56	5
3211	0.24	523	3	0.03	8	0.11	7	<5	1	71	<10	0.06	25	<5	57	2
3212	0.07	473	1	0.04	4	0.07	6	<5	1	42	<10	0.03	16	<5	53	1
3213	0.59	560	4	0.02	28	0.09	7	<5	2	63	<10	0.09	34	<5	103	2
3214	0.23	421	2	0.02	11	0.11	7	<5	1	59	<10	0.07	28	<5	66	5
3215	0.22	247	2	0.02	10	0.17	6	<5	1	72	<10	0.07	31	<5	51	5
3216	0.13	855	2	0.03	7	0.13	7	<5	1	29	<10	0.05	20	<5	96	1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3217	Soil	<2	<0.1	0.80	<5	75	<2	0.21	<0.1	5	12	8	1.24	<3	0.08	13
3218	Soil	<2	<0.1	1.16	<5	81	<2	0.21	<0.1	6	12	11	1.38	<3	0.08	14
3219	Soil	<2	<0.1	1.21	8	88	2	0.27	0.2	7	15	13	1.54	<3	0.12	21
3220	Soil	<2	<0.1	1.07	9	129	3	0.32	0.1	6	12	14	1.23	<3	0.12	15
3221	Soil	<2	<0.1	1.00	6	108	4	0.29	0.1	7	14	14	1.37	<3	0.14	22
3222	Soil	<2	<0.1	0.98	8	88	<2	0.23	<0.1	6	11	13	1.19	<3	0.10	14
3223	Soil	6	<0.1	1.36	9	86	<2	0.25	<0.1	7	16	13	1.60	<3	0.11	16
3224	Soil	4	0.1	1.00	8	88	<2	0.29	0.1	9	23	16	2.01	<3	0.12	24
3225	Soil	4	<0.1	1.03	5	108	<2	0.30	<0.1	8	19	12	1.73	<3	0.12	17
3226	Soil	<2	<0.1	1.42	12	102	<2	0.40	0.1	11	22	22	2.22	<3	0.18	19
3227	Soil	2	<0.1	1.09	9	100	<2	0.44	<0.1	13	8	24	2.00	<3	0.26	4
3228	Soil	<2	<0.1	1.50	8	176	<2	0.66	0.3	24	7	35	3.25	<3	0.50	6
3229	Soil	4	0.1	2.35	7	198	<2	0.56	0.1	28	48	46	3.19	<3	0.66	8
3230	Soil	2	<0.1	1.44	<5	278	<2	0.50	0.1	25	29	30	2.57	<3	0.27	6
3231	Soil	2	<0.1	1.50	5	322	<2	0.41	0.5	14	26	29	1.89	<3	0.24	7
3232	Soil	2	0.2	2.24	6	134	<2	0.63	0.4	23	67	46	3.23	<3	0.33	9
3233	Soil	4	<0.1	1.87	6	154	3	0.54	0.7	19	60	52	2.58	<3	0.40	9
3234	Soil	6	<0.1	2.09	8	128	<2	0.39	0.2	17	54	40	2.53	<3	0.28	11
3235	Soil	2	<0.1	0.91	<5	111	3	0.47	0.5	8	28	42	1.92	<3	0.11	6
3236	Soil	2	<0.1	1.70	12	106	<2	0.42	0.3	13	47	44	2.61	<3	0.23	13
3237	Soil	2	<0.1	0.58	<5	69	3	0.44	0.1	7	18	22	1.09	<3	0.15	4
3238	Soil	4	<0.1	0.85	<5	51	<2	0.98	0.1	6	17	25	1.22	<3	0.10	10
3239	Soil	2	<0.1	1.19	<5	162	<2	0.31	<0.1	9	23	16	1.68	<3	0.13	13
3240	Soil	6	<0.1	1.20	<5	88	<2	0.27	<0.1	10	41	20	1.83	<3	0.13	14
3241	Soil	4	<0.1	1.11	5	72	3	0.31	0.1	10	33	18	1.76	<3	0.12	18
3242	Soil	2	<0.1	1.38	<5	95	<2	0.35	<0.1	13	51	24	2.15	<3	0.16	20
3243	Soil	4	<0.1	1.80	9	78	<2	0.35	0.1	9	21	17	2.06	<3	0.12	25
3244	Soil	2	<0.1	1.61	11	106	<2	0.34	<0.1	10	18	16	1.97	<3	0.15	28
3245	Soil	4	<0.1	1.41	6	76	<2	0.31	<0.1	8	20	14	1.79	<3	0.12	24
3246	Soil	4	<0.1	1.19	5	85	<2	0.23	<0.1	7	17	10	1.63	<3	0.10	17
3247	Soil	4	<0.1	1.05	<5	121	<2	0.29	<0.1	6	14	10	1.48	<3	0.09	15
3248	Soil	2	<0.1	0.86	<5	88	<2	0.24	0.3	6	13	11	1.26	<3	0.09	16
3249	Soil	<2	<0.1	0.88	<5	91	<2	0.25	<0.1	5	10	9	1.12	<3	0.11	11
3250	Soil	<2	<0.1	1.06	5	76	2	0.29	<0.1	6	15	10	1.53	<3	0.09	19
3251	Soil	2	<0.1	0.86	<5	71	<2	0.23	<0.1	5	14	7	1.43	<3	0.08	17
3252	Soil	<2	<0.1	0.82	<5	85	<2	0.24	<0.1	5	11	8	1.23	<3	0.09	13
3253	Soil	2	<0.1	0.75	<5	76	2	0.17	0.1	5	7	7	0.89	<3	0.07	7
3254	Soil	2	<0.1	0.58	<5	71	<2	0.18	0.1	5	6	8	0.83	<3	0.06	6
3255	Soil	<2	<0.1	1.17	<5	59	<2	0.22	<0.1	6	15	11	1.57	<3	0.10	19
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3217	0.17	309	2	0.02	7	0.13	5	<5	1	42	<10	0.06	28	<5	55	2
3218	0.20	372	2	0.02	9	0.18	8	<5	1	45	<10	0.07	30	<5	62	4
3219	0.28	370	3	0.02	13	0.14	12	<5	2	73	<10	0.08	31	<5	93	5
3220	0.24	667	2	0.03	11	0.19	12	<5	1	92	<10	0.07	25	<5	78	2
3221	0.27	477	3	0.02	13	0.15	14	<5	1	90	<10	0.06	29	<5	65	3
3222	0.22	395	2	0.02	10	0.16	11	<5	1	56	<10	0.06	25	<5	65	3
3223	0.25	333	2	0.02	13	0.12	7	<5	2	49	<10	0.08	34	<5	61	5
3224	0.32	253	3	0.02	18	0.17	6	<5	2	60	<10	0.08	43	<5	71	3
3225	0.25	366	3	0.02	15	0.25	5	<5	2	57	<10	0.07	35	<5	77	4
3226	0.47	425	3	0.02	22	0.16	8	<5	3	58	<10	0.11	46	<5	102	5
3227	0.38	625	3	0.03	9	0.12	5	<5	3	42	<10	0.11	34	<5	105	2
3228	0.76	1551	4	0.04	9	0.16	6	<5	4	47	<10	0.17	49	<5	153	1
3229	1.34	953	5	0.02	46	0.10	5	<5	4	48	<10	0.21	67	<5	107	4
3230	0.83	1310	4	0.03	22	0.07	2	<5	3	37	<10	0.14	56	<5	84	<1
3231	0.62	1530	3	0.02	26	0.09	7	<5	3	46	<10	0.11	39	<5	118	3
3232	0.80	1154	5	0.04	55	0.05	8	<5	6	63	<10	0.15	56	<5	122	3
3233	0.78	815	4	0.03	48	0.06	7	<5	5	54	<10	0.13	50	<5	158	2
3234	0.71	733	4	0.03	45	0.04	6	<5	4	42	<10	0.14	52	<5	95	2
3235	0.28	654	2	0.03	20	0.12	5	<5	2	49	<10	0.07	35	<5	85	1
3236	0.65	485	4	0.03	44	0.07	5	<5	4	49	<10	0.11	57	<5	78	4
3237	0.22	328	2	0.03	19	0.07	4	<5	1	48	<10	0.05	24	<5	52	<1
3238	0.31	248	3	0.04	16	0.04	7	<5	1	87	<10	0.06	27	<5	40	1
3239	0.35	515	2	0.02	18	0.20	4	<5	2	67	<10	0.08	33	<5	96	3
3240	0.47	358	3	0.02	29	0.10	4	<5	2	36	<10	0.09	40	<5	59	4
3241	0.41	353	3	0.03	27	0.10	4	<5	2	34	<10	0.09	40	<5	54	3
3242	0.63	391	3	0.02	37	0.09	5	<5	3	43	<10	0.10	46	<5	55	7
3243	0.32	436	3	0.02	15	0.14	10	<5	2	59	<10	0.10	46	<5	83	6
3244	0.36	497	3	0.02	18	0.12	16	<5	2	79	<10	0.09	38	<5	123	4
3245	0.31	305	3	0.02	14	0.10	8	<5	2	65	<10	0.09	39	<5	70	5
3246	0.25	249	2	0.01	12	0.14	5	<5	2	47	<10	0.07	34	<5	65	6
3247	0.20	369	2	0.02	10	0.18	6	<5	1	70	<10	0.07	30	<5	90	2
3248	0.19	395	2	0.02	8	0.12	6	<5	1	53	<10	0.06	28	<5	63	3
3249	0.16	378	2	0.02	7	0.14	5	<5	1	58	<10	0.06	25	<5	59	3
3250	0.22	286	2	0.02	10	0.19	6	<5	2	63	<10	0.07	34	<5	61	4
3251	0.20	247	2	0.02	8	0.14	5	<5	1	44	<10	0.07	32	<5	49	4
3252	0.18	316	2	0.02	7	0.16	5	<5	1	48	<10	0.07	27	<5	58	1
3253	0.12	490	2	0.03	7	0.12	5	<5	1	33	<10	0.06	21	<5	44	1
3254	0.11	889	2	0.04	4	0.09	7	<5	1	37	<10	0.05	20	<5	75	<1
3255	0.24	222	2	0.02	10	0.06	7	<5	2	53	<10	0.08	34	<5	61	6
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3256	Soil	4	<0.1	0.75	<5	55	<2	0.23	<0.1	5	15	9	1.49	<3	0.08	18
3257	Soil	4	<0.1	0.72	<5	50	3	0.20	<0.1	5	13	7	1.34	<3	0.08	14
3258	Soil	2	<0.1	0.54	<5	50	<2	0.20	<0.1	4	7	7	0.82	<3	0.05	7
3259	Soil	<2	<0.1	1.03	5	74	<2	0.32	<0.1	6	15	12	1.57	<3	0.10	21
3260	Soil	<2	<0.1	0.93	<5	74	<2	0.27	<0.1	6	16	10	1.57	<3	0.08	21
3261	Soil	<2	<0.1	0.67	<5	40	2	0.12	<0.1	3	4	6	0.63	<3	0.07	3
3262	Soil	<2	<0.1	0.61	<5	38	<2	0.11	<0.1	3	3	6	0.61	<3	0.04	2
3263	Soil	<2	<0.1	1.37	<5	62	<2	0.21	<0.1	4	4	9	0.85	<3	0.06	7
3264	Soil	<2	<0.1	0.43	<5	35	6	0.13	0.1	3	3	5	0.52	<3	0.07	4
3265	Soil	<2	<0.1	1.20	<5	85	<2	0.23	<0.1	5	11	8	1.28	<3	0.17	13
3266	Soil	<2	<0.1	0.40	<5	82	<2	0.18	0.1	3	4	5	0.57	<3	0.08	3
3267	Soil	<2	<0.1	1.54	<5	104	<2	0.40	0.2	9	34	8	2.03	<3	0.22	13
3268	Soil	<2	0.2	2.89	9	227	<2	0.55	0.5	11	18	24	2.38	<3	0.28	56
3269	Soil	<2	<0.1	1.17	<5	100	<2	0.26	0.3	8	12	13	1.39	<3	0.13	18
3270	Soil	<2	<0.1	1.22	<5	102	<2	0.35	0.4	8	13	14	1.43	<3	0.16	22
3271	Soil	<2	<0.1	0.92	<5	157	<2	0.68	0.5	6	12	15	1.15	<3	0.25	15
3272	Soil	<2	<0.1	1.78	8	98	3	0.38	0.6	13	19	16	2.05	<3	0.15	31
3273	Soil	<2	<0.1	0.78	<5	76	<2	0.40	0.5	7	7	15	1.04	<3	0.16	19
3274	Soil	<2	<0.1	0.70	<5	46	<2	0.26	<0.1	6	8	11	0.87	<3	0.11	12
3275	Soil	2	<0.1	2.11	7	96	<2	0.50	0.4	12	24	27	2.19	<3	0.35	54
3276	Soil	4	<0.1	0.53	<5	83	<2	0.30	<0.1	4	6	9	0.70	<3	0.14	9
3277	Soil	2	<0.1	1.16	5	62	<2	0.41	0.3	13	15	17	1.56	<3	0.12	53
3278	Soil	<2	<0.1	1.42	<5	55	<2	0.23	0.2	7	10	9	1.16	<3	0.11	18
3279	Soil	4	<0.1	0.79	6	51	<2	0.39	0.4	13	8	19	1.23	<3	0.11	34
3280	Soil	2	<0.1	1.80	14	76	3	0.40	0.4	11	16	18	1.76	<3	0.19	32
3281	Soil	2	<0.1	0.74	<5	79	<2	0.29	0.3	6	9	9	1.05	<3	0.14	10
3282	Soil	6	<0.1	0.77	<5	48	<2	0.22	<0.1	5	7	9	0.98	<3	0.14	19
3283	Soil	2	<0.1	1.12	10	61	3	0.22	0.1	7	14	12	1.41	<3	0.11	16
3284	Soil	2	<0.1	0.73	9	89	<2	0.28	<0.1	6	8	17	1.09	<3	0.11	19
3285	Soil	4	<0.1	1.22	15	139	<2	0.30	0.4	9	18	19	1.71	<3	0.15	13
3286	Soil	6	0.1	1.30	17	122	<2	0.34	0.5	9	18	22	1.79	<3	0.14	13
3287	Soil	2	<0.1	1.33	18	134	<2	0.31	0.5	10	19	22	1.83	<3	0.15	14
3288	Soil	4	<0.1	1.30	19	125	<2	0.31	0.6	9	18	21	1.78	<3	0.13	13
3289	Soil	<2	<0.1	1.24	17	114	3	0.33	0.6	9	18	22	1.70	<3	0.15	14
3290	Soil	4	<0.1	1.11	15	112	<2	0.32	0.5	8	17	20	1.57	<3	0.13	13
3291	Soil	4	<0.1	1.19	7	205	<2	0.37	0.2	14	21	24	2.41	<3	0.38	5
3292	Soil	4	<0.1	0.69	<5	145	<2	0.33	0.4	8	11	13	1.33	<3	0.24	3
3293	Soil	2	<0.1	0.55	<5	101	<2	0.23	<0.1	6	10	12	1.16	<3	0.19	2
3294	Soil	8	<0.1	1.56	7	179	2	0.77	0.5	30	7	27	2.79	<3	0.45	6
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Report: 9000758 R Battle Mountain (Canada) Inc. Project: 75-97 Page 4 of 5 Section 2 of 2

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3256	0.21	238	2	0.02	8	0.09	5	<5	1	52	<10	0.07	35	<5	42	1
3257	0.19	271	2	0.03	7	0.07	5	<5	1	50	<10	0.07	30	<5	43	3
3258	0.13	280	2	0.03	6	0.08	5	<5	1	70	<10	0.05	20	<5	50	1
3259	0.24	562	2	0.02	11	0.11	10	<5	1	85	<10	0.07	34	<5	57	2
3260	0.22	527	2	0.02	9	0.10	11	<5	1	67	<10	0.07	35	<5	50	1
3261	0.07	107	1	0.03	2	0.11	6	<5	<1	44	<10	0.05	14	<5	43	1
3262	0.07	139	1	0.03	2	0.04	3	<5	<1	45	<10	0.04	15	<5	31	1
3263	0.10	161	2	0.03	4	0.15	6	<5	1	89	<10	0.06	16	<5	41	7
3264	0.06	148	1	0.03	2	0.04	2	<5	<1	29	<10	0.04	15	<5	31	1
3265	0.20	277	2	0.03	7	0.04	5	<5	1	75	<10	0.06	25	<5	83	3
3266	0.08	312	1	0.03	2	0.06	3	<5	<1	63	<10	0.04	15	<5	52	<1
3267	0.64	401	3	0.04	11	0.06	4	<5	4	112	<10	0.08	36	<5	69	6
3268	0.39	535	5	0.02	18	0.07	18	<5	3	146	<10	0.06	32	<5	126	6
3269	0.24	681	2	0.02	9	0.09	10	<5	1	83	<10	0.06	28	<5	85	1
3270	0.25	875	4	0.02	10	0.07	15	<5	1	103	<10	0.05	28	<5	99	<1
3271	0.23	1281	2	0.02	9	0.08	13	<5	1	159	<10	0.05	21	<5	119	1
3272	0.35	1076	4	0.01	18	0.09	23	<5	2	83	<10	0.08	41	<5	105	1
3273	0.18	728	3	0.02	9	0.07	14	<5	1	82	<10	0.04	21	<5	84	1
3274	0.15	368	2	0.03	6	0.05	7	<5	1	51	<10	0.05	20	<5	41	2
3275	0.45	566	4	0.02	20	0.06	24	<5	4	102	11	0.07	38	<5	118	12
3276	0.12	541	2	0.03	6	0.12	7	<5	1	78	<10	0.04	16	<5	66	<1
3277	0.28	935	3	0.03	16	0.09	25	<5	1	95	<10	0.06	32	<5	80	1
3278	0.21	357	2	0.03	12	0.04	11	<5	1	51	<10	0.07	22	<5	70	4
3279	0.20	789	2	0.03	15	0.10	16	<5	1	74	<10	0.04	26	<5	75	<1
3280	0.38	426	3	0.02	22	0.08	19	<5	2	93	<10	0.07	31	<5	106	2
3281	0.17	616	1	0.03	9	0.14	14	<5	1	63	<10	0.05	21	<5	147	<1
3282	0.17	389	2	0.03	8	0.05	13	<5	1	66	<10	0.05	20	<5	87	1
3283	0.24	377	2	0.03	13	0.14	10	<5	2	71	<10	0.07	30	<5	99	5
3284	0.22	647	2	0.03	10	0.17	16	<5	1	101	<10	0.05	24	<5	74	2
3285	0.34	588	2	0.02	22	0.15	6	<5	2	43	<10	0.08	34	<5	125	3
3286	0.36	443	3	0.02	24	0.17	6	<5	2	52	<10	0.09	37	<5	122	3
3287	0.36	457	3	0.02	24	0.18	6	<5	2	50	<10	0.08	36	<5	128	3
3288	0.36	443	3	0.02	24	0.18	6	<5	2	47	<10	0.08	36	<5	128	3
3289	0.35	408	2	0.02	23	0.16	6	<5	2	48	<10	0.08	35	<5	118	3
3290	0.31	410	2	0.02	21	0.15	6	<5	2	44	<10	0.07	32	<5	111	2
3291	0.67	485	3	0.03	12	0.08	5	<5	3	40	<10	0.15	50	<5	83	1
3292	0.34	665	2	0.03	7	0.07	7	<5	1	30	<10	0.09	29	<5	74	<1
3293	0.29	360	2	0.03	5	0.06	4	<5	1	23	<10	0.08	27	<5	51	1
3294	0.83	1485	4	0.02	10	0.20	7	<5	3	62	<10	0.14	55	<5	133	1
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Report: 9000758 R Battle Mountain (Canada) Inc. Project: 75-97 Page 5 of 5 Section 1 of 2

Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
3295	Soil	<2	<0.1	1.77	5	134	<2	0.41	0.2	23	8	19	2.73	<3	0.64	6
3296	Soil	2	<0.1	2.89	13	229	<2	0.69	0.4	25	10	24	4.55	<3	0.83	12
3297	Soil	4	0.1	2.82	11	170	<2	0.54	0.2	22	15	32	4.09	<3	0.64	11
3298	Soil	2	<0.1	1.74	6	124	<2	0.39	0.2	17	30	24	2.28	<3	0.34	8
3299	Soil	2	0.1	2.08	10	144	<2	0.42	0.1	21	30	26	3.15	<3	0.53	13
3300	Soil	4	<0.1	2.83	7	127	<2	0.66	0.3	37	35	26	4.15	<3	0.98	5
3301	Soil	6	<0.1	2.32	11	149	3	0.62	0.2	29	48	34	3.44	<3	0.51	11
3302	Soil	16	0.5	3.51	12	285	<2	0.55	0.5	31	68	103	>5.00	<3	0.65	18
3303	Soil	<2	<0.1	0.51	<5	62	<2	0.18	<0.1	4	6	10	0.81	<3	0.09	5
3304	Soil	8	0.4	3.19	10	264	<2	0.49	0.4	29	63	91	>5.00	<3	0.63	16
3305	Soil	12	<0.1	0.53	<5	67	<2	0.20	<0.1	5	7	10	0.84	<3	0.10	6
3306	Soil	<2	<0.1	0.71	<5	82	<2	0.31	<0.1	5	14	12	1.11	<3	0.11	8
3307	Soil	4	<0.1	1.07	<5	51	<2	0.30	<0.1	7	18	9	1.45	<3	0.12	10
3308	Soil	4	<0.1	1.08	<5	113	<2	0.26	<0.1	8	25	12	1.72	<3	0.13	18
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Report: 9000758 R Battle Mountain (Canada) Inc. Project: 75-97 Page 5 of 5 Section 2 of 2

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
3295	1.06	825	4	0.04	14	0.07	4	<5	4	32	<10	0.23	69	<5	103	2
3296	1.12	998	5	0.03	11	0.23	6	<5	8	53	<10	0.24	81	<5	180	6
3297	1.10	813	4	0.03	14	0.29	5	<5	7	55	<10	0.22	81	<5	137	6
3298	1.05	659	3	0.03	29	0.11	4	<5	3	40	<10	0.14	51	<5	99	4
3299	1.16	622	4	0.03	27	0.08	4	<5	5	53	<10	0.19	65	<5	85	4
3300	2.25	1212	4	0.07	46	0.06	6	<5	7	51	<10	0.32	118	<5	131	3
3301	1.30	1128	4	0.05	44	0.11	5	<5	5	67	<10	0.17	75	<5	95	2
3302	2.55	405	6	0.02	60	0.06	6	<5	13	80	<10	0.21	144	<5	136	8
3303	0.15	266	1	0.03	5	0.09	5	<5	1	26	<10	0.05	19	<5	35	<1
3304	2.35	393	5	0.02	55	0.06	6	<5	12	71	<10	0.20	134	<5	129	7
3305	0.15	330	2	0.04	5	0.08	4	<5	1	27	<10	0.05	20	<5	43	1
3306	0.22	375	2	0.03	9	0.08	6	<5	1	41	<10	0.06	25	<5	58	1
3307	0.26	210	1	0.03	13	0.01	5	<5	2	34	<10	0.08	29	<5	34	2
3308	0.33	343	2	0.02	16	0.12	7	<5	2	39	<10	0.08	34	<5	50	3
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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GEOCHEMICAL ANALYSIS CERTIFICATE

Battle Mountain (Canada) Inc. PROJECT 75-97 File # 90-6014 Page 1

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410001	1	13	11	56	.1	19	6	334	1.93	2	5	ND	5	172	1.0	2	2	35	.54	.032	27	29	.36	123	.10	7	1.63	.03	.18	1	5
410002	1	17	15	60	.2	25	7	276	2.49	2	5	ND	8	81	.5	2	2	50	.43	.056	46	38	.45	107	.13	3	1.78	.02	.16	1	1
410003	1	16	14	57	.2	21	7	260	2.64	2	5	ND	8	88	.4	2	2	54	.55	.092	45	46	.51	98	.13	4	1.86	.02	.12	1	1
410004	1	12	7	41	.3	16	5	138	1.38	2	5	ND	5	80	.2	2	2	30	.35	.055	19	18	.36	113	.10	5	2.13	.04	.12	1	1
410005	1	12	10	47	.2	17	5	183	1.69	2	5	ND	4	81	.5	2	2	35	.33	.051	20	25	.34	137	.12	5	2.55	.04	.11	1	1
410006	1	13	11	88	.2	15	5	554	1.84	2	5	ND	4	65	.2	2	2	38	.27	.219	16	20	.29	136	.11	2	2.51	.03	.08	1	1
410007	1	13	10	42	.2	15	5	144	1.41	2	5	ND	4	81	.6	2	2	30	.35	.058	19	20	.36	114	.10	4	2.14	.04	.12	1	1
410008	1	16	11	47	.3	18	6	199	2.00	2	5	ND	6	78	.5	2	2	42	.35	.048	26	26	.43	108	.12	5	2.03	.04	.15	1	1
410009	1	13	14	52	.2	16	6	227	2.13	2	5	ND	8	73	.5	2	2	52	.32	.079	36	26	.35	109	.13	5	1.88	.03	.09	1	2
410010	1	9	7	27	.1	3	3	332	.66	2	5	ND	1	66	.2	2	2	21	.36	.052	11	4	.12	48	.05	7	.42	.04	.05	1	1
410011	1	24	10	49	.2	12	7	597	1.87	2	5	ND	6	101	.2	2	2	39	.64	.065	33	20	.47	89	.11	4	1.80	.05	.09	1	1
410012	1	33	14	57	.3	14	10	1250	2.97	5	5	ND	6	65	.4	2	2	65	.47	.153	37	14	.58	104	.11	2	2.68	.04	.11	1	1
410013	1	28	17	62	.2	18	9	813	3.16	2	5	ND	9	64	.5	2	2	64	.40	.109	38	23	.49	160	.15	2	3.35	.03	.15	1	1
410014	1	40	13	67	.3	17	10	1099	3.32	2	5	ND	8	73	.6	2	2	70	.44	.127	45	20	.62	114	.13	2	3.03	.04	.15	1	1
410015	1	21	20	52	.1	17	8	488	2.46	3	5	ND	6	73	.4	2	2	49	.40	.092	35	23	.39	233	.15	2	3.63	.04	.16	1	1
410016	1	18	8	48	.1	10	6	836	1.76	4	5	ND	2	43	.6	2	2	44	.27	.085	25	12	.32	117	.09	2	2.28	.04	.08	1	1
410017	1	15	18	61	.1	12	5	362	1.90	2	5	ND	4	45	.2	2	2	43	.26	.088	19	15	.33	99	.12	2	2.51	.03	.09	1	1
410018	1	18	9	45	.1	10	4	276	1.47	2	5	ND	4	52	.9	2	2	31	.30	.096	22	10	.23	118	.12	44	2.47	.04	.07	1	1
410019	3	15	21	44	.1	10	5	318	1.84	2	5	ND	7	66	1.2	2	6	36	.35	.044	29	15	.35	94	.13	5	2.17	.02	.12	9	1
410020	2	12	19	39	.1	11	5	206	1.55	2	5	ND	5	65	1.3	2	6	35	.33	.098	20	14	.25	116	.10	2	1.83	.04	.08	6	1
410021	1	19	13	47	.3	15	7	429	2.25	2	5	ND	7	68	.9	2	2	49	.37	.069	41	22	.34	146	.14	2	2.78	.03	.11	1	1
410022	1	30	19	71	.2	11	7	683	1.92	2	5	ND	4	116	.5	2	2	51	.74	.123	40	17	.37	175	.11	2	2.59	.03	.10	1	1
410023	1	17	10	56	.1	14	5	351	1.92	2	5	ND	6	69	.6	2	2	38	.38	.049	29	16	.35	161	.13	2	2.64	.04	.11	1	1
410024	1	30	27	68	.4	21	8	772	2.64	6	5	ND	6	89	.5	2	2	55	.58	.097	63	25	.46	185	.15	2	3.43	.03	.16	1	1
410025	1	19	19	66	.2	8	5	630	1.39	5	5	ND	6	84	.4	2	4	33	.54	.080	37	10	.30	122	.12	3	1.84	.04	.12	1	1
410026	1	16	20	65	.1	14	6	311	2.22	2	5	ND	6	62	.5	2	2	44	.34	.067	27	21	.35	122	.15	4	2.75	.03	.18	1	1
410027	1	19	18	52	.2	15	7	573	2.39	2	5	ND	7	55	.7	2	2	50	.31	.057	36	23	.37	135	.14	2	2.69	.03	.16	1	4
410028	2	14	14	69	.1	22	7	314	2.30	2	5	ND	5	147	.8	2	6	38	.39	.047	27	36	.48	152	.12	4	2.11	.04	.21	7	2
410029	1	15	17	62	.1	19	6	355	2.18	3	5	ND	5	80	.4	2	2	46	.34	.058	31	27	.34	109	.12	3	1.62	.03	.17	1	16
410030	1	18	18	58	.1	25	6	217	2.31	3	5	ND	6	76	.6	2	2	47	.31	.070	30	34	.41	136	.12	3	2.22	.03	.11	1	1
410031	1	19	8	57	.3	27	7	237	2.38	3	5	ND	6	81	1.1	2	2	47	.32	.078	30	34	.43	143	.12	2	2.17	.03	.13	1	1
410032	1	22	13	78	.1	27	8	273	2.10	5	5	ND	5	101	.3	2	2	42	.32	.092	31	27	.38	150	.11	2	2.14	.03	.13	1	36
410033	1	14	16	54	.1	23	6	496	1.45	3	5	ND	1	82	.2	2	2	28	.37	.071	12	44	.44	130	.09	4	1.41	.03	.11	1	2
410034	1	17	17	39	.1	30	7	229	1.84	2	5	ND	2	56	.7	2	2	33	.32	.055	15	61	.52	116	.12	2	2.28	.03	.10	1	1
410035	1	29	25	59	.2	42	12	446	3.44	2	5	ND	4	76	.7	5	2	56	.54	.075	26	97	.88	157	.17	4	3.57	.03	.15	1	1
410036	1	49	16	59	.3	59	19	599	4.27	8	5	ND	3	81	1.2	8	2	68	.68	.105	32	120	1.70	128	.17	2	2.62	.03	.10	1	1
STANDARD C/AU-S	19	62	42	133	7.5	72	31	1115	3.98	44	16	7	36	52	18.5	14	22	57	.50	.096	37	59	.89	180	.07	33	1.92	.06	.13	11	50

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: SOIL AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: NOV 21 1990 **DATE REPORT MAILED:** Nov 27/90 **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	Au** ppb
410037	1	27	8	58	.1	58	17	517	4.07	2	5	ND	3	78	1.2	2	2	46	.72	.044	25	130	1.61	118	.16	2	2.93	.03	.16	1	1
410038	1	33	8	133	.1	57	19	906	4.37	4	5	ND	4	80	.5	2	2	66	.90	.172	41	272	1.90	156	.06	2	3.16	.03	.09	1	1
410039	1	24	10	56	.1	40	12	332	3.17	2	5	ND	4	58	.2	2	2	48	.44	.074	26	139	1.16	251	.12	2	3.39	.04	.10	1	1
410040	1	19	8	60	.2	16	8	803	1.21	5	5	ND	2	59	1.0	2	3	27	.57	.137	12	62	.66	250	.07	4	.90	.04	.07	1	1
410041	1	26	11	74	.1	41	15	702	3.77	2	5	ND	4	72	1.0	2	2	60	.65	.093	33	139	1.25	385	.08	2	2.71	.04	.14	1	1
410042	1	16	12	64	.2	25	9	287	2.65	2	5	ND	5	69	.6	2	2	47	.34	.063	26	57	.59	205	.13	4	3.14	.03	.10	1	2
410043	1	22	10	109	.1	34	13	619	3.37	6	5	ND	4	86	1.0	2	2	62	.72	.173	28	117	.90	199	.11	3	2.70	.03	.07	1	2
410044	1	15	12	58	.1	23	9	422	2.65	4	5	ND	5	69	.6	2	2	52	.43	.072	30	57	.50	151	.12	4	2.52	.03	.13	1	1
410045	1	12	5	54	.1	16	6	369	1.68	3	5	ND	3	81	.5	2	2	34	.35	.090	19	36	.33	109	.09	4	1.71	.04	.13	1	1
410046	1	12	12	84	.1	18	7	307	2.01	2	5	ND	5	123	.8	2	2	39	.48	.109	26	32	.35	117	.10	4	1.77	.02	.14	2	70
410047	1	16	19	66	.2	16	6	329	2.47	3	5	ND	7	97	.7	3	2	49	.43	.074	46	34	.39	99	.11	6	2.05	.03	.15	1	2
410048	1	14	7	64	.1	18	7	283	2.23	2	5	ND	6	72	.9	2	2	46	.37	.062	30	34	.35	110	.10	4	1.68	.03	.10	1	2
410049	1	15	13	50	.1	20	6	241	2.22	2	5	ND	6	71	.7	2	2	46	.37	.073	36	35	.38	99	.11	4	1.66	.02	.13	1	1
410050	1	18	12	81	.1	18	7	535	2.10	2	5	ND	6	91	.3	2	2	39	.45	.086	32	31	.41	168	.10	4	2.19	.03	.15	1	2
410051	1	15	18	57	.2	14	6	275	1.71	2	5	ND	5	80	.2	2	2	34	.52	.074	26	27	.35	132	.09	6	2.10	.04	.12	1	1
410052	1	23	21	82	.2	16	11	991	3.01	2	5	ND	6	68	1.0	2	2	54	.44	.074	43	41	.54	156	.12	2	3.29	.03	.16	1	1
410053	1	16	17	74	.1	10	9	1438	2.02	2	5	ND	1	62	.7	2	2	42	.50	.116	66	31	.45	162	.09	4	2.41	.04	.10	1	1
410054	1	15	8	75	.1	12	8	919	2.26	2	5	ND	3	60	.7	2	2	43	.43	.118	30	39	.52	168	.10	2	2.74	.03	.09	1	1
410055	1	7	3	41	.1	6	4	285	1.06	2	5	ND	1	56	.4	2	2	24	.32	.062	12	15	.21	85	.06	4	1.00	.03	.09	2	1
410055 (DUP)	1	17	11	64	.3	13	7	265	2.33	4	5	ND	4	73	.9	2	2	40	.47	.068	29	36	.49	113	.09	7	2.68	.03	.14	1	1
410056	1	21	15	72	.1	17	10	490	3.17	5	5	ND	5	81	.2	2	2	51	.46	.106	34	37	.48	232	.14	2	4.29	.04	.11	1	1
410057	1	16	16	55	.2	15	8	387	2.66	4	5	ND	7	65	.4	3	2	49	.40	.072	36	35	.43	194	.14	3	3.51	.03	.12	1	1
410058	1	19	2	82	.2	16	11	461	3.89	13	5	ND	7	75	.3	2	2	61	.57	.126	42	49	.83	80	.08	2	2.91	.04	.10	1	1
410059	1	12	7	47	.1	8	3	123	1.33	2	5	ND	4	77	.4	2	2	21	.37	.023	23	29	.36	91	.09	5	2.41	.04	.11	1	1
410060	1	14	6	68	.1	15	10	579	3.10	3	5	ND	5	63	.5	2	2	54	.38	.089	34	37	.54	124	.11	2	3.10	.03	.10	1	1
410061	1	15	9	59	.1	14	7	314	1.91	2	5	ND	4	68	.2	2	2	33	.40	.072	24	23	.32	156	.10	2	2.75	.04	.09	1	2
410062	1	17	11	53	.2	16	7	285	2.45	2	5	ND	5	70	.3	2	2	43	.39	.079	33	28	.40	132	.12	2	2.84	.04	.10	1	1
410063	1	13	11	45	.1	16	6	243	2.09	4	5	ND	7	68	.8	2	2	41	.31	.060	33	28	.37	131	.12	2	2.28	.03	.10	1	1
410064	1	13	10	57	.2	17	6	191	1.68	2	5	ND	5	74	.5	2	2	35	.30	.074	27	23	.32	107	.10	3	1.68	.03	.07	1	1
410065	1	14	10	60	.3	16	6	233	2.26	2	5	ND	11	83	1.0	2	2	42	.36	.059	37	30	.38	114	.12	3	2.14	.03	.17	1	1
410066	1	13	8	38	.3	8	3	251	1.07	4	5	ND	1	1610	.6	2	2	21	8.18	.120	19	16	.81	83	.04	14	.69	.10	.12	1	3
410067	1	20	12	67	.3	29	9	292	3.16	6	5	ND	15	116	.5	2	2	64	.51	.098	44	49	.54	105	.12	3	1.58	.02	.15	1	1
410068	1	17	13	62	.2	18	8	413	2.67	4	5	ND	8	56	.5	2	2	51	.29	.073	35	36	.41	128	.13	2	2.70	.02	.10	1	11
410069	1	10	13	47	.3	11	5	310	1.53	4	5	ND	5	58	.2	2	2	32	.21	.105	21	19	.22	133	.10	2	2.01	.03	.07	1	1
410070	1	9	16	66	.1	9	4	480	1.44	2	5	ND	3	88	.3	2	2	28	.41	.073	19	17	.23	135	.09	2	1.86	.03	.09	1	1
410071	1	16	13	60	.3	16	7	282	2.48	2	5	ND	5	74	.2	2	2	41	.34	.062	27	36	.48	122	.11	3	3.18	.04	.11	1	1
STANDARD C/AU-S	18	60	39	130	7.3	72	31	1062	3.98	41	18	8	36	51	18.6	15	18	55	.49	.098	36	61	.89	183	.08	34	1.91	.06	.14	12	54

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410072	1	12	13	59	.1	12	7	493	2.33	4	5	ND	1	93	.2	2	2	42	.37	.110	47	25	.34	145	.10	2	2.43	.02	.15	1	4
410073	1	10	3	55	.1	7	6	421	1.41	3	5	ND	1	50	.2	2	4	25	.22	.074	16	12	.20	85	.08	2	1.47	.03	.07	1	2
410074	1	18	2	72	.2	14	14	1362	3.08	8	5	ND	1	85	.2	2	2	53	.47	.118	36	36	.69	93	.06	2	2.87	.03	.06	1	4
410075	1	6	9	28	.2	7	4	123	1.68	3	5	ND	6	64	.2	3	5	32	.22	.059	33	16	.18	89	.10	2	1.29	.02	.05	1	2
410076	1	20	7	76	.9	8	8	1747	1.68	9	5	ND	2	70	.2	7	5	29	.34	.144	19	10	.20	108	.07	4	1.81	.02	.07	1	2
410077	1	17	9	53	.3	8	12	1298	2.65	8	5	ND	1	85	.2	2	2	45	.47	.044	35	17	.51	87	.07	2	2.56	.04	.06	1	6
410078	1	17	5	64	.3	10	12	1478	2.67	7	5	ND	2	76	.2	2	2	51	.41	.096	37	19	.52	107	.08	2	2.71	.03	.08	1	4
410079	1	13	9	49	.1	10	9	427	2.79	14	5	ND	4	91	.2	2	3	49	.41	.068	36	24	.45	88	.09	2	2.61	.02	.09	1	23
410080	1	10	9	57	.1	8	10	975	2.72	20	5	ND	4	87	.2	2	2	47	.35	.072	40	20	.40	103	.09	3	2.36	.02	.16	1	16
410081	1	7	10	33	.3	11	4	105	1.69	2	5	ND	8	66	.2	4	4	31	.22	.064	27	18	.19	71	.09	3	1.23	.02	.07	1	2
410082	1	13	7	56	.3	11	6	289	1.56	3	5	ND	4	76	.2	2	2	29	.25	.108	18	14	.22	106	.09	2	1.64	.03	.07	1	3
410083	1	15	11	47	.7	23	8	219	2.38	5	5	ND	8	71	.2	3	2	45	.31	.050	37	34	.43	85	.11	2	1.58	.02	.13	1	1
410084	1	19	11	58	.1	22	8	295	2.53	3	5	ND	6	74	.2	2	2	48	.28	.052	35	34	.40	93	.11	2	1.66	.02	.13	1	2
410085	1	10	8	50	.2	15	6	191	2.00	3	5	ND	6	70	.2	2	3	37	.26	.067	26	24	.29	98	.10	5	1.55	.02	.09	1	2
410086	1	19	8	123	.6	7	12	941	3.00	11	5	ND	5	112	.2	4	2	43	.37	.175	19	8	.61	128	.10	3	2.94	.03	.08	1	1
410087	1	12	7	46	.1	10	8	510	2.30	7	5	ND	6	70	.3	2	2	45	.30	.058	32	17	.32	97	.12	3	2.35	.03	.11	1	1
410088	1	11	6	47	.3	3	9	1310	1.89	9	5	ND	2	59	.4	4	2	38	.31	.071	20	7	.28	100	.07	2	1.90	.04	.09	1	10
410089	1	12	4	23	.5	5	2	117	.58	4	5	ND	1	688	.4	4	2	12	13.75	.076	13	7	.26	54	.03	5	.61	.04	.04	1	8
410090	1	7	8	34	.1	8	5	188	1.57	3	5	ND	4	101	.2	2	2	27	.39	.046	22	15	.23	76	.08	3	1.44	.03	.08	1	3
410091	1	11	7	50	.1	9	8	366	2.45	2	5	ND	3	95	.2	2	2	38	.37	.056	22	22	.47	95	.11	3	2.53	.03	.16	1	1
410092	1	9	10	55	.1	3	10	1168	2.41	2	5	ND	1	75	.2	2	2	46	.36	.103	23	8	.44	135	.09	3	2.44	.03	.09	1	3
410093	1	15	8	51	.5	6	10	1135	2.37	3	5	ND	3	75	.2	4	4	46	.37	.104	23	8	.50	130	.08	2	2.25	.03	.08	1	1
410094	1	11	14	51	.6	10	7	436	1.69	7	5	ND	5	43	.2	4	3	32	.21	.064	15	14	.23	134	.11	2	2.32	.03	.05	1	1
410095	1	7	13	36	.1	10	6	335	2.02	3	5	ND	7	62	.2	2	2	40	.26	.051	26	20	.22	163	.12	2	2.24	.03	.07	1	2
410096	1	27	7	73	.4	13	22	1951	2.86	10	5	ND	3	95	.2	4	2	50	.60	.142	34	46	.80	146	.07	3	2.00	.03	.08	1	2
410097	1	13	8	53	.3	14	12	717	2.65	6	5	ND	8	71	.2	2	2	51	.37	.096	41	30	.33	138	.11	6	2.27	.02	.12	1	1
410098	1	16	10	48	.1	14	9	696	2.27	6	5	ND	7	83	.2	2	2	45	.37	.073	42	23	.33	118	.11	3	1.94	.03	.10	1	3
410099	1	10	8	42	.2	12	8	493	1.97	5	5	ND	5	60	.2	3	3	36	.24	.054	26	17	.26	105	.11	2	2.34	.03	.07	1	2
410100	1	12	5	40	.1	11	7	230	1.98	2	5	ND	9	64	.2	2	2	36	.26	.040	28	19	.29	86	.10	2	1.91	.03	.09	1	1
410101	1	10	6	35	.1	11	7	297	1.90	2	5	ND	6	106	.2	2	2	36	.41	.062	32	20	.31	120	.09	2	1.79	.04	.07	1	1
410102	1	9	12	32	.2	11	6	194	1.78	4	5	ND	6	74	.2	2	7	33	.27	.049	25	18	.24	92	.09	2	1.56	.03	.08	1	2
410103	1	18	12	52	.1	21	7	230	2.17	2	5	ND	5	66	.2	2	2	34	.25	.026	29	34	.44	100	.12	2	1.66	.02	.21	1	1
410104	1	9	10	35	.2	13	6	144	1.93	2	5	ND	9	69	.2	3	5	40	.27	.060	31	24	.27	71	.09	2	1.16	.03	.06	1	10
410105	1	5	7	45	.1	15	6	133	1.95	2	5	ND	5	69	.2	2	2	40	.28	.093	31	25	.28	74	.08	2	1.31	.02	.06	1	3
410106	1	12	6	47	.2	14	6	186	1.55	7	5	ND	6	49	.2	2	5	30	.21	.078	19	17	.23	90	.09	2	1.62	.03	.06	1	3
410107	1	9	5	43	.1	16	6	141	1.95	2	5	ND	6	63	.2	2	4	39	.25	.050	26	26	.28	108	.10	2	1.57	.02	.07	1	13
STANDARD C/AU-S	20	61	38	134	7.4	73	33	1053	3.97	44	16	8	40	52	19.0	15	23	59	.46	.100	39	58	.90	184	.08	34	1.89	.06	.14	11	48

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410108	1	6	8	43	.1	15	6	276	1.71	3	5	ND	4	56	.2	2	2	37	.30	.048	21	25	.30	85	.09	2	1.26	.02	.08	1	6
410109	1	12	10	54	.2	18	7	183	1.58	5	5	ND	6	62	.2	2	2	34	.26	.083	21	22	.30	109	.09	2	1.83	.02	.07	1	3
410110	1	10	9	59	.1	15	6	321	1.45	3	5	ND	5	88	.4	2	2	30	.33	.129	23	20	.26	134	.09	4	1.65	.02	.08	1	2
410111	1	11	9	39	.1	8	3	181	1.11	2	5	ND	3	68	.2	2	2	22	.30	.029	22	9	.19	75	.08	2	1.48	.04	.07	1	4
410112	1	16	6	47	.3	11	5	382	1.39	2	5	ND	3	92	.2	2	2	25	.37	.022	20	14	.22	75	.09	2	2.22	.04	.06	1	1
410113	1	13	10	51	.1	15	6	187	1.82	4	5	ND	5	69	.4	2	2	36	.36	.062	28	23	.33	130	.11	2	2.15	.03	.12	1	1
410114	1	11	5	55	.1	15	6	276	1.68	3	5	ND	3	68	.2	2	2	35	.34	.066	21	22	.28	116	.09	4	1.76	.03	.13	1	1
410115	1	8	11	52	.1	15	5	229	1.69	2	5	ND	4	54	.4	2	2	35	.22	.054	19	21	.27	104	.09	2	1.55	.02	.07	1	2
410116	1	8	5	60	.1	15	5	221	1.32	3	5	ND	3	67	.2	2	2	28	.26	.091	16	17	.22	92	.07	3	1.27	.02	.08	1	1
410117	1	8	7	43	.1	13	5	281	1.57	2	5	ND	4	85	.2	2	2	35	.28	.048	25	25	.36	90	.10	3	1.01	.03	.15	2	4
410118	1	11	11	61	.1	21	6	214	2.02	3	5	ND	4	67	.2	2	2	37	.32	.036	14	23	.48	95	.14	6	2.23	.03	.17	1	1
410119	1	21	14	50	.1	27	9	290	2.18	4	5	ND	4	247	.3	4	2	35	.61	.065	24	30	.59	108	.13	6	2.09	.03	.18	1	4
410120	1	12	4	41	.1	16	5	210	1.90	2	5	ND	6	74	.2	2	2	37	.36	.036	24	25	.33	78	.09	3	1.30	.02	.11	1	1
410121	1	8	6	53	.1	14	5	168	1.43	2	5	ND	3	60	.3	2	2	28	.30	.032	16	19	.24	82	.08	8	1.42	.02	.11	1	1
410122	1	11	8	70	.1	11	6	470	1.62	4	5	ND	2	34	.2	2	2	34	.17	.178	15	15	.24	111	.11	2	2.52	.02	.07	1	2
410123	1	14	3	57	.1	7	5	630	1.54	5	5	ND	1	35	.2	2	2	33	.22	.137	13	11	.21	100	.10	2	2.41	.02	.06	1	1
410124	1	13	11	61	.1	6	4	680	1.34	6	5	ND	1	54	.6	2	2	29	.37	.108	12	8	.20	121	.08	2	1.98	.02	.06	1	2
410125	1	14	16	61	.1	14	7	461	2.04	3	5	ND	4	83	.2	2	2	44	.39	.083	32	24	.36	147	.12	4	3.02	.02	.11	1	2
410126	1	11	14	57	.1	9	5	295	1.54	2	5	ND	4	92	.2	2	2	31	.37	.134	20	13	.24	129	.12	2	2.88	.03	.09	1	2
410127	1	9	16	49	.1	8	4	259	1.29	5	5	ND	4	73	.2	2	2	27	.28	.113	19	11	.21	114	.11	4	2.35	.03	.08	1	1
410128	1	9	15	44	.1	6	5	563	1.38	2	5	ND	1	76	.2	2	2	34	.30	.065	20	11	.20	103	.10	2	2.29	.02	.08	1	2
410129	1	11	15	51	.1	7	6	700	1.41	4	5	ND	1	86	.2	2	3	40	.36	.098	50	13	.25	65	.08	3	1.91	.02	.08	1	2
410130	1	16	12	56	.1	10	7	504	1.92	4	5	ND	3	58	.3	2	2	39	.36	.109	18	8	.38	95	.10	4	1.95	.03	.10	1	1
410131	1	8	4	39	.1	6	3	182	.88	3	5	ND	1	46	.4	2	2	18	.23	.116	8	6	.15	96	.07	5	1.39	.03	.07	1	5
410132	1	9	6	42	.1	15	6	223	1.53	2	5	ND	4	62	.2	2	2	31	.30	.090	19	19	.26	121	.08	2	1.34	.02	.07	1	1
410133	1	8	15	55	.1	14	5	280	1.42	2	5	ND	3	71	.2	2	2	29	.29	.134	19	19	.25	143	.08	2	1.53	.02	.11	1	5
410134	1	11	4	57	.1	15	5	238	1.47	2	5	ND	3	53	.4	2	2	32	.23	.107	20	17	.25	114	.09	2	1.81	.02	.08	2	2
410135	1	8	11	56	.1	13	5	188	1.54	2	5	ND	4	56	.2	2	2	34	.22	.066	21	19	.26	97	.08	2	1.51	.02	.09	1	1
410136	1	9	10	48	.1	13	5	243	1.63	4	5	ND	5	90	.2	2	2	36	.34	.096	26	20	.26	88	.08	3	1.42	.02	.07	1	1
410137	1	16	16	74	.1	11	8	563	2.14	2	5	ND	4	95	.2	2	2	42	.49	.079	28	20	.34	105	.09	6	2.47	.02	.13	1	5
410138	1	8	8	40	.1	12	5	186	1.78	2	5	ND	5	68	.2	2	2	41	.30	.097	31	19	.25	82	.10	3	1.57	.02	.07	1	1
410139	1	16	8	68	.1	16	12	816	2.99	4	5	ND	5	80	.5	5	2	58	.46	.078	33	29	.51	95	.09	6	2.62	.02	.13	1	1
410140	1	17	13	58	.1	42	20	923	2.49	3	5	ND	2	65	.2	3	2	48	.47	.069	25	24	.51	50	.06	6	1.93	.03	.10	1	1
410141	1	9	9	32	.1	9	10	404	1.50	2	5	ND	1	38	.2	2	2	34	.31	.040	14	15	.33	37	.05	2	1.04	.04	.05	1	2
410142	1	15	19	59	.1	18	18	957	2.53	2	5	ND	2	57	.2	3	2	49	.37	.063	39	27	.49	123	.10	3	2.75	.03	.09	1	1
410143	1	11	20	51	.1	17	9	416	2.18	4	5	ND	4	53	.3	3	2	40	.23	.044	26	22	.37	161	.13	4	3.00	.03	.09	1	2
STANDARD C/AU-S	19	62	43	133	7.4	73	32	1055	3.98	41	19	8	36	52	18.9	15	22	57	.51	.089	37	61	.90	179	.08	36	2.06	.06	.14	13	47

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410144	1	9	11	36	.1	9	5	159	1.89	2	5	ND	6	104	.2	2	2	27	.37	.019	34	17	.28	104	.11	2	2.09	.03	.06	1	5
410145	1	10	14	53	.1	13	6	197	2.12	2	5	ND	6	50	.2	2	4	40	.22	.118	26	21	.29	115	.10	2	1.91	.05	.08	1	5
410146	1	29	12	93	.5	51	13	897	2.08	3	5	ND	4	135	.7	3	4	35	.84	.163	28	41	.60	313	.11	3	1.66	.02	.13	1	3
410147	1	15	12	63	.4	18	9	570	2.39	4	5	ND	7	65	.2	4	4	46	.34	.150	25	25	.33	144	.10	2	2.08	.02	.07	1	3
410148	1	8	14	63	.1	10	9	621	1.96	2	5	ND	4	53	.2	2	4	37	.32	.094	23	15	.27	144	.11	4	2.61	.03	.09	1	3
410149	1	8	13	58	.1	12	8	637	2.16	6	9	ND	4	44	.2	2	3	42	.26	.067	26	19	.31	120	.12	2	2.56	.02	.09	1	6
410150	1	10	7	48	.1	14	8	358	2.33	2	5	ND	5	78	.2	3	2	40	.31	.063	24	33	.44	148	.11	2	2.71	.03	.11	1	3
410151	1	10	11	33	.2	8	5	219	1.49	4	5	ND	3	347	.3	2	2	27	1.32	.027	23	15	.40	124	.07	2	1.66	.06	.07	1	1
410152	1	15	9	79	.1	9	10	1033	2.18	2	5	ND	2	83	.2	2	2	38	.44	.162	22	19	.35	147	.09	2	2.17	.02	.07	1	1
410153	1	11	7	51	.5	15	6	234	1.99	3	5	ND	8	58	.4	5	3	35	.26	.028	27	29	.38	96	.10	3	1.33	.02	.16	1	4
410154	1	5	10	43	.1	12	5	203	2.03	2	5	ND	6	50	.2	2	2	38	.23	.041	24	25	.25	75	.09	3	1.09	.02	.08	1	2
410155	1	5	4	45	.3	13	6	221	2.16	2	5	ND	9	51	.3	2	2	41	.22	.029	25	31	.31	80	.11	3	1.29	.02	.11	1	3
410156	1	11	5	60	.2	17	5	281	1.73	4	5	ND	6	52	.2	3	2	32	.25	.073	20	22	.26	105	.09	2	1.47	.03	.09	1	6
410157	1	13	10	78	.3	49	10	439	2.48	2	5	ND	4	68	.2	2	7	26	.36	.041	12	25	.74	129	.12	5	2.58	.03	.12	1	1
410158	1	8	12	49	.1	17	6	215	2.12	2	5	ND	5	59	.2	2	3	39	.27	.071	23	26	.36	115	.12	3	1.96	.03	.14	1	3
410159	1	10	16	48	.1	15	6	252	1.88	4	5	ND	5	64	.3	2	5	32	.26	.068	18	20	.31	167	.10	3	2.21	.03	.11	1	3
410160	1	11	10	31	.3	13	4	230	1.24	4	5	ND	4	48	.5	3	2	20	.25	.173	9	11	.24	110	.09	4	2.13	.04	.08	1	1
410161	1	10	10	56	.1	10	5	281	1.49	2	5	ND	2	77	.6	2	5	25	.42	.077	16	14	.28	162	.08	4	1.57	.03	.11	1	1
410162	1	5	11	44	.1	12	5	142	2.03	3	5	ND	5	60	.3	2	2	40	.25	.029	17	23	.33	73	.10	2	1.85	.02	.09	1	1
410163	2	10	13	75	.1	12	8	332	1.85	3	5	ND	2	57	.2	2	4	35	.27	.140	22	15	.29	104	.09	4	2.00	.03	.07	2	2
410164	1	18	17	70	.1	17	7	331	1.90	4	5	ND	4	46	.3	2	6	35	.23	.111	23	20	.29	95	.10	6	1.94	.03	.08	1	1
410165	1	5	12	48	.1	11	5	249	1.50	3	5	ND	3	42	.2	2	2	28	.17	.053	14	17	.23	74	.07	3	1.19	.02	.08	2	3
410166	1	9	10	51	.1	13	5	210	1.58	2	7	ND	4	71	.2	2	7	28	.21	.144	25	15	.24	100	.08	2	1.46	.03	.08	2	2
410167	1	12	13	50	.1	13	5	139	1.98	6	5	ND	8	90	.2	4	5	39	.35	.092	45	20	.28	82	.10	3	1.36	.03	.12	1	1
410168	1	8	7	51	.1	10	6	179	1.72	2	5	ND	6	78	.2	3	4	30	.26	.051	25	17	.25	127	.09	2	1.54	.03	.10	1	2
410169	1	10	10	51	.1	8	4	187	1.29	2	5	ND	3	77	.6	3	2	20	.36	.112	14	12	.25	107	.07	4	1.67	.04	.07	1	3
410170	1	7	10	46	.1	9	5	188	1.75	2	5	ND	5	91	.3	2	4	30	.33	.039	28	17	.24	103	.09	3	1.43	.03	.09	1	2
410171	1	12	13	46	.1	11	6	201	2.03	2	5	ND	6	42	.4	2	2	39	.20	.076	20	19	.30	113	.11	2	2.53	.03	.06	1	3
410172	1	12	13	46	.1	12	6	271	1.83	2	5	ND	5	46	.2	2	2	32	.27	.088	19	17	.31	127	.10	3	2.34	.03	.11	1	2
410173	1	9	10	55	.6	14	5	217	1.79	6	5	ND	8	64	.2	4	2	30	.26	.065	25	19	.24	155	.10	4	1.90	.02	.11	1	2
410174	1	9	15	61	.1	13	5	228	1.70	2	5	ND	4	50	.2	2	2	30	.23	.139	19	16	.22	97	.10	3	1.84	.03	.08	1	1
410175	1	9	11	60	.1	12	6	173	1.78	4	5	ND	5	54	.2	2	4	32	.23	.104	21	18	.23	101	.10	3	1.73	.03	.11	1	1
410176	1	14	12	42	.6	12	5	124	1.71	6	5	ND	8	66	.2	4	2	31	.23	.045	20	18	.24	99	.10	3	1.78	.04	.08	1	1
410177	1	7	7	29	.1	8	5	170	1.35	2	5	ND	5	125	.4	3	2	24	.39	.012	21	14	.20	65	.07	3	1.02	.04	.05	1	1
410178	1	33	7	40	.1	9	4	352	.96	3	5	ND	1	1012	.3	2	2	20	9.31	.115	21	11	.44	90	.03	9	.76	.05	.08	1	1
410179	1	15	7	52	.1	24	7	259	2.36	2	5	ND	6	68	.2	2	2	43	.30	.062	31	34	.44	90	.11	2	1.53	.02	.14	1	22
STANDARD C/AU-S	19	57	39	130	7.3	73	32	1051	3.95	42	22	8	40	50	20.7	15	23	57	.45	.094	39	58	.89	182	.08	34	1.89	.06	.14	11	51

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410180	1	9	11	70	.1	10	4	266	1.36	3	5	ND	3	111	.6	2	2	26	.36	.196	24	16	.24	113	.07	2	1.34	.03	.09	2	1
410181	1	5	8	43	.1	11	4	314	1.24	3	5	ND	2	59	.2	2	2	26	.23	.075	13	15	.18	107	.07	3	1.17	.02	.07	1	1
410182	1	10	9	59	.1	11	5	249	1.43	3	5	ND	3	55	.6	2	2	30	.26	.157	21	16	.21	88	.09	2	1.76	.03	.08	1	5
410183	1	12	9	62	.2	12	6	329	1.69	4	5	ND	3	85	.2	2	2	33	.36	.075	22	22	.30	151	.09	2	1.96	.02	.14	1	2
410184	1	7	12	63	.1	9	5	339	1.71	5	5	ND	2	45	.3	2	2	33	.22	.143	14	17	.27	126	.08	2	2.14	.02	.08	1	4
410185	1	8	10	43	.2	9	5	388	1.57	4	5	ND	3	48	.2	2	2	34	.25	.099	17	15	.20	110	.10	2	2.12	.03	.07	1	3
410186	1	7	10	44	.1	9	5	365	1.65	3	5	ND	4	52	.2	2	2	36	.24	.092	21	16	.23	126	.10	2	2.04	.03	.07	1	7
410187	1	8	9	40	.2	8	4	342	1.30	2	5	ND	2	39	.4	2	2	27	.19	.090	15	11	.18	102	.09	2	1.78	.02	.07	1	1
410188	1	9	9	43	.1	9	4	310	1.42	4	5	ND	4	87	.2	2	2	29	.33	.111	22	14	.22	120	.09	2	1.80	.03	.09	1	4
410189	1	14	11	75	.1	11	6	407	1.94	9	5	ND	3	70	.3	2	2	32	.41	.094	29	24	.46	169	.07	2	2.36	.02	.15	1	1
410190	1	9	20	53	.1	9	5	291	1.66	3	5	ND	4	45	.6	2	2	34	.28	.083	21	15	.24	123	.11	3	2.56	.03	.06	1	5
410191	1	10	15	56	.2	12	7	374	2.39	10	5	ND	3	37	.2	4	2	43	.17	.068	23	18	.33	136	.14	2	3.87	.02	.06	1	5
410192	1	6	14	38	.1	11	5	149	1.65	7	5	ND	3	55	.2	2	2	31	.23	.034	18	17	.28	113	.09	2	1.94	.02	.08	1	2
410193	1	12	11	41	.1	14	5	158	1.98	2	5	ND	7	73	.2	2	2	40	.29	.047	32	22	.30	130	.10	2	2.14	.03	.13	1	3
410194	1	12	7	54	.1	13	5	215	1.31	3	5	ND	3	67	.6	2	2	27	.24	.165	16	16	.22	110	.08	2	1.73	.03	.07	1	9
410195	1	8	9	40	.2	10	5	150	1.44	4	5	ND	4	299	.9	2	2	28	.58	.036	25	20	.34	81	.07	5	1.24	.04	.08	1	4
410196	1	8	5	34	.1	6	4	169	1.16	3	5	ND	1	589	.6	2	2	22	2.04	.040	20	13	.23	84	.06	5	.93	.07	.07	2	3
410197	1	4	6	45	.1	8	3	277	1.01	3	5	ND	1	79	.5	2	2	21	.28	.079	8	11	.15	126	.06	2	1.00	.03	.07	2	1
410198	1	9	9	57	.2	14	5	308	1.90	3	5	ND	5	65	.2	2	2	39	.25	.046	27	22	.28	115	.10	3	1.62	.02	.15	1	2
410199	1	6	7	37	.1	8	4	225	1.42	4	5	ND	2	53	.4	2	2	27	.23	.064	13	12	.24	111	.08	4	2.05	.03	.07	1	1
410200	1	7	5	37	.1	8	4	356	1.45	3	5	ND	3	54	.2	2	2	30	.27	.137	18	13	.18	111	.09	3	2.12	.02	.07	1	7
410201	1	8	8	45	.1	9	4	208	1.53	4	5	ND	4	57	.4	2	2	35	.29	.072	22	16	.22	83	.09	3	1.82	.02	.06	1	2
410202	1	8	4	47	.1	9	4	293	1.37	5	5	ND	3	72	.2	2	2	30	.28	.125	18	15	.18	104	.08	2	1.61	.02	.08	2	1
410203	1	8	12	43	.1	9	4	234	1.46	4	5	ND	3	76	.2	2	2	30	.25	.123	20	14	.21	100	.09	2	1.92	.03	.08	1	2
410204	1	6	7	39	.1	8	4	158	1.70	2	5	ND	6	63	.2	2	2	35	.25	.023	26	16	.20	77	.10	3	1.41	.02	.06	2	3
410205	1	8	9	85	.1	10	5	356	1.93	4	5	ND	4	51	.2	2	2	40	.26	.096	22	18	.30	120	.11	2	2.78	.02	.08	1	2
410206	1	10	10	77	.1	10	6	418	1.71	5	5	ND	4	62	.5	3	2	36	.34	.116	23	28	.32	180	.10	2	2.47	.03	.07	1	1
410207	1	10	6	49	.1	10	6	308	2.01	2	5	ND	4	48	1.1	3	5	37	.29	.108	16	19	.37	117	.10	6	2.57	.03	.06	5	2
410208	1	7	11	47	.1	11	5	177	1.61	3	5	ND	4	56	.2	2	2	29	.24	.060	16	14	.27	134	.10	2	2.63	.03	.08	1	2
410209	1	9	14	45	.1	13	5	204	1.65	6	5	ND	5	59	.2	2	3	36	.25	.082	21	20	.26	93	.08	2	1.34	.02	.07	1	1
410210	1	6	7	45	.1	10	4	160	1.72	3	5	ND	7	79	.2	2	2	39	.24	.043	35	17	.24	80	.10	3	1.45	.02	.10	2	2
410211	1	8	13	54	.2	9	5	307	1.22	2	5	ND	1	143	.5	3	2	24	.64	.074	19	15	.29	102	.06	6	1.14	.03	.11	1	1
410212	1	6	8	44	.1	10	4	168	1.74	3	5	ND	7	86	.6	2	2	48	.31	.084	44	22	.25	61	.10	2	.85	.02	.08	1	4
410213	1	8	5	50	.1	11	4	196	1.19	5	5	ND	3	59	.3	2	2	25	.23	.102	15	12	.20	102	.08	7	1.68	.03	.08	1	2
410214	1	9	8	57	.1	16	5	192	1.61	6	5	ND	5	65	.5	2	2	36	.25	.078	20	18	.27	123	.09	2	1.86	.02	.07	1	1
410215	1	7	5	53	.1	13	4	173	1.51	2	5	ND	5	64	.2	2	2	32	.30	.068	19	17	.23	102	.09	5	1.86	.02	.09	1	2
STANDARD C/AU-S	19	61	40	134	7.4	73	31	1087	3.98	44	16	7	36	52	18.7	15	22	56	.50	.095	36	60	.90	179	.07	36	2.05	.06	.14	11	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
410216	1	9	2	42	.1	9	3	134	1.08	2	5	ND	2	68	.2	2	2	20	.29	.072	16	18	.17	90	.08	3	1.30	.03	.05	1	2
410217	1	10	2	44	.1	8	3	142	1.13	2	5	ND	2	57	.2	2	2	21	.22	.091	17	19	.17	95	.08	3	1.35	.04	.06	1	1
410218	1	8	8	37	.1	12	4	226	1.31	4	5	ND	3	89	.2	2	2	27	.24	.097	18	19	.18	91	.09	4	1.27	.03	.08	1	2
410219	1	8	4	42	.1	10	4	344	1.21	2	5	ND	2	84	.2	2	2	24	.23	.104	16	17	.17	116	.08	3	1.18	.03	.09	1	1
410220	1	10	4	39	.1	11	4	240	1.17	2	5	ND	2	84	.2	2	2	22	.26	.088	15	18	.15	115	.08	3	1.14	.03	.09	1	1
410221	1	13	9	48	.1	27	7	235	1.71	2	5	ND	2	53	.2	2	2	21	.27	.043	10	29	.45	120	.13	3	2.49	.03	.12	1	1
410222	1	9	6	45	.1	20	5	189	1.61	2	5	ND	2	62	.2	2	2	25	.25	.089	13	36	.33	143	.11	2	2.20	.03	.12	1	1
410223	1	19	9	68	.1	26	9	275	2.56	2	5	ND	3	83	.2	2	2	37	.36	.053	24	81	.63	114	.10	3	1.98	.03	.18	1	1
410224	1	8	4	31	.1	11	5	238	1.52	2	5	ND	4	77	.2	2	2	27	.24	.028	22	33	.25	70	.09	5	1.15	.03	.16	1	11
410225	1	10	6	42	.1	14	5	213	1.46	2	5	ND	3	62	.2	2	3	31	.19	.094	19	23	.23	84	.10	3	1.51	.03	.06	1	6
410226	1	11	10	46	.1	24	7	282	1.77	2	5	ND	2	60	.2	2	2	33	.29	.057	15	68	.46	98	.08	2	1.44	.03	.09	1	3
410227	1	10	8	47	.1	14	5	186	1.06	3	5	ND	2	70	.2	2	2	22	.24	.088	12	18	.19	100	.08	2	1.16	.03	.08	1	4
410228	1	9	2	36	.1	14	5	134	1.82	2	5	ND	7	54	.3	2	2	41	.22	.030	25	33	.24	56	.10	3	.92	.02	.07	1	4

Silt Analyses

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
109097 - 101136	Silt	2	0.1	0.52	<5	273	<2	4.01	<0.1	8	23	30	1.31	<3	0.04	8
109097 - 101137	Silt	<2	0.1	0.95	7	85	<2	1.20	0.2	8	20	21	1.97	<3	0.07	20
109097 - 101138	Silt	4	0.1	0.91	<5	100	<2	1.25	0.2	7	15	28	1.42	<3	0.08	15
109097 - 101139	Silt	<2	<0.1	1.19	8	76	<2	0.62	<0.1	7	35	20	1.98	<3	0.09	30
109097 - 101140	Silt	<2	0.1	0.96	5	61	<2	0.50	<0.1	7	23	12	1.72	<3	0.07	24
109097 - 101141	Silt	<2	0.1	0.86	<5	52	2	0.63	<0.1	6	21	13	1.45	<3	0.09	22
109097 - 101142	Silt	<2	<0.1	0.85	<5	55	<2	0.65	<0.1	6	25	10	1.71	<3	0.07	26
109097 - 101143	Silt	12	<0.1	0.73	<5	52	<2	0.52	<0.1	6	24	7	1.83	<3	0.06	25
109097 - 101144	Silt	<2	<0.1	0.84	<5	55	<2	0.66	<0.1	6	24	10	1.51	<3	0.07	25
109097 - 101145	Silt	<2	<0.1	0.70	<5	49	<2	0.60	<0.1	5	18	7	1.33	<3	0.05	21
109097 - 101146	Silt	4	0.1	0.87	<5	59	<2	0.87	<0.1	6	26	9	1.53	<3	0.06	29
109097 - 101147	Silt	12	<0.1	0.68	<5	46	<2	0.76	<0.1	5	18	8	1.18	<3	0.06	22
109097 - 101148	Silt	<2	<0.1	0.77	<5	53	<2	0.75	<0.1	5	20	8	1.29	<3	0.05	24
109097 - 101149	Silt	4	<0.1	0.89	<5	66	<2	0.77	<0.1	7	35	9	1.92	<3	0.06	40
109097 - 101150	Silt	<2	<0.1	0.85	<5	62	2	0.84	<0.1	6	23	9	1.42	<3	0.07	30
109097 - 101151	Silt	32	<0.1	0.83	<5	60	<2	0.83	<0.1	6	24	9	1.44	<3	0.07	31
109097 - 101152	Silt	<2	0.1	0.93	<5	66	<2	0.95	<0.1	6	29	11	1.53	<3	0.06	29
109097 - 101153	Silt	<2	<0.1	0.72	<5	52	<2	0.69	<0.1	5	20	6	1.20	<3	0.05	24
109097 - 101154	Silt	10	<0.1	0.90	<5	64	<2	1.09	<0.1	7	31	8	1.76	<3	0.06	29
109097 - 101155	Silt	36	<0.1	0.88	<5	65	<2	1.59	<0.1	6	31	12	1.57	<3	0.07	26
109097 - 101156	Silt	<2	0.1	0.93	<5	62	5	0.96	<0.1	6	28	11	1.75	<3	0.07	27
109097 - 101157	Silt	78	0.1	0.96	<5	66	<2	0.83	<0.1	7	34	9	1.92	<3	0.07	32
109097 - 101158	Silt	18	<0.1	0.96	<5	69	<2	1.15	<0.1	7	31	11	2.05	<3	0.09	35
109097 - 101159	Silt	<2	<0.1	0.87	<5	65	<2	1.04	<0.1	7	25	10	1.71	<3	0.07	33
109097 - 101160	Silt	<2	<0.1	0.91	<5	69	<2	1.11	<0.1	7	29	11	1.74	<3	0.09	32
109097 - 101161	Silt	<2	<0.1	0.83	<5	64	<2	1.16	<0.1	9	51	11	2.55	<3	0.08	40
109097 - 101162	Silt	12	<0.1	0.86	<5	66	<2	1.20	<0.1	9	46	12	2.32	<3	0.08	41
109097 - 101163	Silt	<2	<0.1	0.91	<5	71	<2	1.30	<0.1	9	44	12	2.21	<3	0.08	39
109097 - 101164	Silt	<2	0.1	0.91	<5	68	<2	1.23	<0.1	9	40	12	2.06	<3	0.09	36
109097 - 101165	Silt	<2	<0.1	0.97	<5	70	<2	1.07	<0.1	9	45	12	2.26	<3	0.09	37
109097 - 101166	Silt	10	<0.1	1.01	<5	68	<2	0.95	<0.1	9	44	12	2.34	<3	0.10	34
109097 - 101167	Silt	<2	0.1	1.02	<5	69	<2	1.08	<0.1	9	40	13	2.04	<3	0.10	33
109097 - 101168	Silt	10	<0.1	1.03	5	67	2	1.00	<0.1	9	45	12	2.25	<3	0.10	35
109097 - 101169	Silt	<2	<0.1	1.00	<5	69	<2	1.11	<0.1	9	46	12	2.39	<3	0.09	36
109097 - 101170	Silt	<2	<0.1	0.96	<5	69	<2	1.13	<0.1	9	38	12	2.00	<3	0.09	34
109097 - 101171	Silt	4	<0.1	1.00	<5	69	<2	1.04	<0.1	9	41	12	2.12	<3	0.09	34
109097 - 101172	Silt	<2	<0.1	0.99	<5	67	<2	0.99	<0.1	9	38	12	1.99	<3	0.10	33
109097 - 101173	Silt	<2	<0.1	1.02	<5	66	<2	0.84	<0.1	9	41	11	2.15	<3	0.09	31
109097 - 101174	Silt	<2	<0.1	0.96	<5	69	<2	1.05	<0.1	8	38	12	1.97	<3	0.09	31
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
109097 - 101136	0.29	>10000	6	0.02	18	0.13	8	<5	<1	534	<10	0.03	30	<5	52	<1
109097 - 101137	0.33	919	1	0.03	15	0.12	7	<5	1	187	<10	0.07	44	<5	74	2
109097 - 101138	0.31	1681	1	0.04	15	0.10	7	<5	1	225	<10	0.05	26	<5	66	2
109097 - 101139	0.45	369	1	0.04	19	0.11	8	<5	2	215	<10	0.08	46	<5	67	4
109097 - 101140	0.37	235	1	0.03	12	0.10	5	<5	2	146	<10	0.07	43	<5	53	3
109097 - 101141	0.33	198	1	0.03	11	0.08	6	<5	2	189	<10	0.06	36	<5	49	3
109097 - 101142	0.36	181	1	0.03	12	0.10	5	<5	2	185	<10	0.07	44	<5	52	3
109097 - 101143	0.33	182	1	0.03	10	0.10	5	<5	2	134	<10	0.08	50	<5	46	2
109097 - 101144	0.37	212	1	0.03	11	0.09	5	<5	2	197	<10	0.06	37	<5	49	2
109097 - 101145	0.31	175	<1	0.03	9	0.09	6	<5	1	174	<10	0.06	34	<5	41	2
109097 - 101146	0.43	203	1	0.03	12	0.11	7	<5	2	341	<10	0.06	38	<5	50	2
109097 - 101147	0.29	133	1	0.03	8	0.09	5	<5	1	233	<10	0.06	30	<5	38	2
109097 - 101148	0.36	186	1	0.03	9	0.10	5	<5	1	225	<10	0.06	31	<5	41	2
109097 - 101149	0.49	206	1	0.03	15	0.14	8	<5	2	229	<10	0.07	47	<5	49	2
109097 - 101150	0.38	243	1	0.03	10	0.11	6	<5	2	263	<10	0.06	33	<5	42	2
109097 - 101151	0.39	206	<1	0.03	10	0.11	6	<5	2	252	<10	0.06	35	<5	45	2
109097 - 101152	0.44	193	1	0.03	13	0.10	7	<5	2	312	<10	0.06	36	<5	45	2
109097 - 101153	0.34	164	1	0.03	8	0.09	5	<5	1	206	<10	0.05	29	<5	34	2
109097 - 101154	0.45	258	1	0.03	12	0.11	6	<5	2	278	<10	0.08	44	<5	52	2
109097 - 101155	0.43	272	1	0.03	14	0.10	8	<5	2	441	<10	0.06	36	<5	52	2
109097 - 101156	0.44	284	1	0.04	12	0.10	6	<5	2	275	<10	0.07	43	<5	47	2
109097 - 101157	0.49	281	1	0.04	13	0.11	6	<5	2	213	<10	0.08	50	<5	50	3
109097 - 101158	0.49	355	1	0.04	14	0.13	6	<5	2	249	<10	0.08	53	<5	53	4
109097 - 101159	0.46	290	1	0.04	12	0.12	5	<5	2	228	<10	0.07	43	<5	43	3
109097 - 101160	0.48	330	<1	0.04	14	0.12	6	<5	2	240	<10	0.07	43	<5	44	4
109097 - 101161	0.58	361	1	0.03	17	0.16	6	<5	3	204	<10	0.09	72	<5	56	4
109097 - 101162	0.60	393	1	0.04	18	0.17	7	<5	3	201	<10	0.08	63	<5	49	5
109097 - 101163	0.64	374	1	0.04	18	0.15	6	<5	3	217	<10	0.08	58	<5	49	5
109097 - 101164	0.59	362	1	0.04	18	0.14	6	<5	3	239	<10	0.08	53	<5	50	4
109097 - 101165	0.63	347	1	0.04	18	0.14	6	<5	3	192	<10	0.09	60	<5	49	5
109097 - 101166	0.58	336	1	0.04	18	0.13	6	<5	3	191	<10	0.10	62	<5	50	5
109097 - 101167	0.61	339	1	0.04	18	0.12	7	<5	3	210	<10	0.08	51	<5	46	5
109097 - 101168	0.61	330	1	0.04	18	0.13	6	<5	3	186	<10	0.09	58	<5	49	5
109097 - 101169	0.65	376	1	0.04	20	0.15	6	<5	3	203	<10	0.09	64	<5	51	5
109097 - 101170	0.62	360	1	0.04	18	0.13	6	<5	3	210	<10	0.08	51	<5	45	5
109097 - 101171	0.64	355	1	0.04	19	0.13	10	<5	3	195	<10	0.09	55	<5	47	5
109097 - 101172	0.62	326	1	0.04	18	0.12	7	<5	3	186	<10	0.08	49	<5	45	4
109097 - 101173	0.60	310	1	0.03	18	0.12	6	<5	3	168	<10	0.09	54	<5	46	5
109097 - 101174	0.57	326	1	0.04	17	0.12	7	<5	3	215	<10	0.08	49	<5	44	4
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Rock Analyses

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
BC 2049	Rock	18	0.1	0.32	47	47	<2	0.02	<0.1	1	102	3	0.94	<3	0.18	19
BC 2050	Rock	14	0.1	0.22	40	51	<2	0.01	<0.1	1	127	3	0.64	<3	0.18	13
BC 2051	Rock	8	0.1	3.40	20	29	<2	2.24	<0.1	44	56	83	>5.00	<3	0.02	2
BC 2052	Rock	8	<0.1	0.43	<5	22	<2	3.14	<0.1	7	144	13	1.12	<3	0.06	3
BC 2053	Rock	12	<0.1	1.28	<5	43	<2	0.94	<0.1	13	139	18	2.15	<3	0.32	20
BC 2054	Rock	2	<0.1	1.74	6	35	<2	1.35	<0.1	19	214	27	3.19	<3	0.18	10
BC 2055	Rock	8	<0.1	0.78	<5	20	<2	7.08	<0.1	7	127	5	1.28	<3	0.10	11
BC 2056	Rock	4	<0.1	0.23	<5	22	<2	0.26	<0.1	4	232	9	0.57	<3	0.05	2
BC 2057	Rock	10	0.1	3.06	<5	55	<2	7.74	<0.1	48	217	54	>5.00	<3	0.56	6
BC 2058	Rock	10	0.2	1.29	31	95	<2	2.45	<0.1	22	80	75	3.49	<3	0.20	17
BC 2059	Rock	22	0.2	2.14	<5	148	<2	7.24	<0.1	28	19	19	4.60	<3	1.03	15
BC 2060	Rock	4	<0.1	1.67	<5	88	<2	0.32	<0.1	15	162	45	2.73	<3	0.67	10
BC 2061	Rock	16	<0.1	1.27	26	90	<2	0.14	0.2	13	200	22	2.06	<3	0.30	15
BC 2062	Rock	4	<0.1	2.11	<5	23	<2	0.82	<0.1	14	151	184	3.48	<3	0.02	<2
BC 2063	Rock	6	0.1	3.46	6	220	<2	7.13	<0.1	47	51	29	>5.00	<3	0.73	11
BC 2064	Rock	4	<0.1	1.90	34	51	<2	7.05	<0.1	29	167	82	2.99	<3	0.12	4
BC 2065	Rock	10	0.8	2.46	<5	13	<2	2.36	46.5	45	203	276	>5.00	<3	0.16	3
BC 2066	Rock	8	0.4	3.40	<5	113	<2	7.39	<0.1	44	38	29	>5.00	<3	0.25	7
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
BC 2049	0.07	69	9	0.04	4	0.03	25	<5	<1	17	<10	<0.01	5	<5	39	6
BC 2050	0.02	31	26	0.04	3	0.01	26	5	<1	10	<10	<0.01	<5	<5	14	5
BC 2051	3.07	1124	3	0.01	27	0.07	<2	<5	12	44	<10	0.36	201	<5	69	1
BC 2052	0.82	403	4	0.01	20	0.09	<2	<5	2	58	<10	0.06	27	<5	26	2
BC 2053	0.89	504	2	0.04	22	0.03	10	6	3	26	14	0.07	29	<5	49	1
BC 2054	1.89	595	2	0.02	68	0.06	4	6	5	48	<10	0.07	48	<5	57	<1
BC 2055	0.48	556	2	0.01	17	0.04	4	<5	2	85	<10	0.03	16	<5	23	1
BC 2056	0.17	223	1	0.01	11	0.06	3	<5	1	8	<10	<0.01	7	<5	11	1
BC 2057	3.36	990	3	0.04	153	0.15	3	13	12	101	<10	0.54	133	<5	95	4
BC 2058	1.04	586	4	0.08	17	0.31	4	6	8	71	<10	0.22	73	<5	35	4
BC 2059	1.33	849	4	0.09	5	0.37	2	<5	12	136	<10	0.29	93	<5	79	3
BC 2060	1.57	829	2	0.02	34	0.03	3	7	5	14	<10	0.14	56	<5	61	2
BC 2061	0.96	503	5	0.01	35	0.06	4	<5	4	10	<10	0.03	58	<5	78	2
BC 2062	1.67	578	2	0.03	17	0.02	<2	5	11	7	<10	0.05	38	<5	62	<1
BC 2063	2.50	1123	4	0.16	46	0.11	<2	<5	18	324	<10	0.38	242	<5	106	3
BC 2064	0.62	759	4	0.10	122	0.19	<2	7	6	68	<10	0.22	73	<5	106	9
BC 2065	0.71	415	5	0.18	163	0.13	<2	5	5	90	<10	0.23	60	<5	4373	8
BC 2066	3.02	1401	3	0.13	56	0.16	2	<5	9	304	<10	0.32	152	<5	114	4
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
BC 2067	Rock	10	0.3	0.39	36	72	<2	0.60	<0.1	1	155	43	1.30	<3	0.13	4
BC 2068	Rock	8	1.0	0.34	7	122	<2	0.85	<0.1	1	167	25	0.63	<3	0.12	7
BC 2069	Rock	4	0.2	0.41	37	1839	<2	0.23	<0.1	5	143	25	0.83	<3	0.08	3
BC 2070	Rock	6	0.2	1.61	6	87	<2	1.23	<0.1	16	53	111	3.02	<3	0.17	5
BC 2071	Rock	6	0.1	1.90	13	71	<2	8.37	<0.1	14	262	71	3.37	<3	0.51	21
BC 2072	Rock	10	0.1	3.63	15	76	<2	3.94	<0.1	32	339	60	4.59	<3	1.29	11
BC 2073	Rock	12	0.4	1.82	14	44	<2	3.92	5.2	27	166	186	4.11	<3	0.51	10
BC 2074	Rock	14	0.5	1.45	22	32	<2	7.48	<0.1	22	206	149	3.72	<3	0.48	21
BC 2075	Rock	8	0.1	0.37	12	104	<2	0.19	<0.1	4	124	41	1.11	<3	0.09	5
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Report: 9000768 R Battle Mountain (Canada) Inc. Project: 75-97 Page 1 of 1 Section 2 of 2

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
BC 2067	0.22	58	5	0.01	17	0.37	5	<5	2	12	<10	<0.01	42	<5	26	3
BC 2068	0.15	57	5	0.01	9	0.44	5	<5	1	16	<10	<0.01	31	<5	32	4
BC 2069	0.31	141	1	0.01	12	0.07	3	<5	2	17	<10	<0.01	37	<5	8	1
BC 2070	1.10	295	2	0.09	12	0.11	4	<5	5	61	<10	0.08	81	<5	25	2
BC 2071	1.07	336	3	0.16	64	3.55	3	6	13	82	<10	0.06	158	<5	72	4
BC 2072	1.81	510	2	0.23	130	0.95	2	9	19	77	<10	0.16	154	<5	68	4
BC 2073	1.17	533	4	0.10	67	0.73	4	<5	10	64	<10	0.13	148	<5	484	4
BC 2074	0.87	167	8	0.10	106	3.53	7	5	7	63	<10	0.03	108	<5	34	3
BC 2075	0.30	92	3	<0.01	32	0.07	3	<5	1	6	<10	<0.01	23	<5	13	3
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B.C.
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Phone (604) 879-7878
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Report: 9001017 R Battle Mountain (Canada) Inc. Project: 75-97 Page 1 of 1 Section 1 of 2

Sample Name	Type	Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	La ppm
BC 0876	Rock	<2	<0.1	1.70	<5	201	<2	2.39	<0.1	19	69	10	4.09	<3	0.20	55
BC 0877	Rock	<2	<0.1	1.76	<5	203	2	2.27	<0.1	25	82	19	>5.00	<3	0.25	59
BC 0878	Rock	2	0.1	4.02	7	8	<2	3.31	<0.1	32	128	18	4.41	<3	0.03	<2
BC 0879	Rock	6	<0.1	1.59	<5	325	<2	2.08	<0.1	20	56	34	4.47	<3	0.34	54
BC 0880	Rock	<2	<0.1	1.59	<5	301	<2	1.04	0.3	23	71	20	>5.00	<3	0.34	51
BC 0881	Rock	2	0.1	1.39	<5	81	6	1.33	<0.1	12	67	14	3.50	<3	0.23	50
BC 0882	Rock	<2	0.1	1.25	<5	125	<2	0.72	0.1	12	34	25	3.12	<3	0.28	52
BC 0883	Rock	4	<0.1	1.34	<5	215	2	1.60	<0.1	12	39	28	3.45	<3	0.32	52
BC 0884	Rock	6	<0.1	1.61	<5	123	<2	2.69	0.1	24	103	31	4.13	<3	0.17	42
BC 0885	Rock	8	<0.1	0.15	10	14	<2	1.73	0.4	94	605	1	4.30	<3	0.02	<2
BC 0886	Rock	4	<0.1	1.57	<5	270	<2	2.09	<0.1	20	72	15	4.29	<3	0.26	58
BC 0887	Rock	2	<0.1	2.03	<5	81	<2	1.10	<0.1	19	71	10	4.81	<3	0.15	50
BC 0888	Rock	4	<0.1	1.80	<5	207	2	1.60	<0.1	20	61	16	4.65	<3	0.19	60
BC 0889	Rock	4	<0.1	1.91	<5	113	<2	1.00	0.1	18	51	15	4.24	<3	0.17	52
BC 0890	Rock	4	<0.1	1.88	<5	86	4	1.26	<0.1	16	48	10	4.12	<3	0.16	50
BC 0891	Rock	4	<0.1	1.96	<5	207	<2	1.65	<0.1	22	89	15	4.93	<3	0.27	52
BC 0892	Rock	<2	<0.1	1.25	<5	108	<2	3.54	0.1	16	91	13	3.26	<3	0.19	45
Minimum Detection		2	0.1	0.01	5	2	2	0.01	0.1	1	1	1	0.01	3	0.01	2
Maximum Detection		10000	100.0	5.00	10000	10000	10000	10.00	10000.0	10000	10000	20000	5.00	10000	10.00	10000
Method		FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

Report: 9001017 R Battle Mountain (Canada) Inc. Project: 75-97

Sample Name	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	V ppm	W ppm	Zn ppm	Zr ppm
BC 0876	1.88	1113	3	0.06	19	0.26	11	<5	8	156	<10	0.13	95	<5	67	7
BC 0877	2.29	1493	4	0.05	18	0.26	13	5	10	109	<10	0.37	120	<5	84	8
BC 0878	4.49	778	3	0.03	77	<0.01	<2	<5	13	21	<10	0.04	126	<5	42	<1
BC 0879	1.35	673	3	0.18	30	0.29	4	<5	7	330	11	0.16	140	5	75	5
BC 0880	1.67	549	3	0.08	36	0.30	15	<5	5	139	<10	0.29	168	<5	73	9
BC 0881	1.38	495	4	0.08	21	0.19	5	<5	6	197	11	0.06	97	<5	65	11
BC 0882	0.88	412	4	0.08	110	0.13	6	<5	2	139	13	0.09	73	<5	58	23
BC 0883	1.13	608	4	0.11	15	0.18	7	<5	4	193	13	0.12	102	<5	62	12
BC 0884	1.85	876	3	0.16	55	0.26	<2	<5	4	217	<10	0.19	95	<5	72	4
BC 0885	9.87	1217	4	<0.01	1735	0.01	<2	14	5	93	<10	<0.01	16	<5	13	<1
BC 0886	1.48	704	4	0.12	33	0.28	4	<5	8	274	<10	0.10	121	<5	89	5
BC 0887	1.50	763	4	0.10	20	0.22	3	<5	9	157	<10	0.13	127	<5	89	9
BC 0888	1.39	583	3	0.17	21	0.29	3	<5	7	210	<10	0.12	122	<5	81	4
BC 0889	1.37	569	4	0.10	86	0.22	7	<5	6	151	<10	0.10	118	<5	79	7
BC 0890	1.08	649	3	0.10	13	0.23	4	<5	6	192	<10	0.09	115	<5	80	6
BC 0891	1.59	881	6	0.11	18	0.22	9	<5	11	188	<10	0.04	150	<5	89	3
BC 0892	0.92	1006	2	0.11	13	0.20	6	<5	6	255	<10	0.07	102	<5	68	7
Minimum Detection	0.01	1	1	0.01	1	0.01	2	5	1	1	10	0.01	5	5	1	1
Maximum Detection	10.00	10000	1000	5.00	10000	5.00	20000	1000	10000	10000	1000	1.00	10000	1000	20000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed unr = Not Requested ins = Insufficient Sample

Appendix VI
Method of Analytical Evaluation

RULES FOR CHOICE OF SIZE CODING OR CONTOURING INTERVALS

(1) Examine both arithmetic and logarithmic histograms for each geochemical survey. Choose the histogram which most closely approximates a normal (or lognormal) distribution. If several populations are present on the histogram, subjectively divide the data into a series of (overlapping ?) normal or lognormal distributions. Always avoid interpreting histograms which are strongly skewed. Portions of arithmetic or logarithmic histograms may be chosen over specific metal concentration intervals, if this allows for the best portrayal of the data in graphitical form.

(2) Choose, as two of the coding intervals, points which represent between 90% and 95%, and 95% and 97.5% of the data; two different numbers. These choices highlight from 1 in 10 to 1 in 20 samples which are considered slightly anomalous and definately anomalous, respectively. These limits are optimistic in that the two categories are defined to be anomalous regardless of the distribution of values on the remainder of the histogram. A rigorous statistical approach would suggest that only values above the 97.5 percentile should be considered anomalous. Choice of any of the above percentiles is entirely subjective and meant to highlight the highest values of the survey.

(3) Divide the remaining portion of the histogram into recognizable populations. The dividing point of each of these populations is chosen as a coding interval. Artifacts introduced as a consequence of detection limit considerations are ignored. These artificial breaks in the histogram can be recognized by referring to the laboratory reports and scanning data results.

(4) For each population, choose one or two numbers which correspond to the 90% and 95% cumulative frequencies for that population (1 in 10 and 1 in 20 samples for that population). These will also be used to represent anomalous conditions for each population. Coding intervals can be no closer than 2X the detection limit for each element being considered.

(5) A maximum of six numbers can be chosen to plot symbol maps. This number is dictated by the ability to present data in graphical form with sufficiently different symbol sizes for them to be easily distinguishable, particularly if maps are to be reduced. The seven defined concentration classes are normally sufficient to represent geochemical data on a map. More intervals can be chosen if data are to be contoured. Avoid choosing arithmetic intervals without considering rules (1) and (4).

(6) Maps plotted using the preceeding instructions might result in two areas being distinguished from each other by a relatively uniform density of symbol sizes, yet only poor contrast anomalies are indicated. Difference between the two areas, A and B, might be due to underlying geology, overburden character, soils etc. Whatever the cause, the data are not well displayed. If the underlying control distinguishing A and B can be recognized, the data can be divided and re-interpreted following steps (1) to (5). Two sets of maps can be drawn, or both sets of interpreted data can be plotted on a single map. For such superimposed geochemical maps, symbol sizes lose their absolute meaning but assume a more important stance, that of reflecting anomalous conditions regardless of the underlying control. To illustrate, consider the case where A and B are areas underlain by very different geology. Anomalous conditions for low background rock types might be concentrations which are much lower than average values for the high background rock types. Nevertheless, anomalies defined in each area are considered significant. Reliance on absolute concentrations can be misleading in such cases.

property boundary

49° 01'

118° 56'

26+00N

24+00N

22+00N

20+00N

18+00N

16+00N

20+00E

B.L. 26+00E

30+00E

3500

KETTLE PROVINCIAL

10136 10137 10138 10139 10140 10141 10142 10143 10144 10145 10146 10147

LEGEND

× 10147 SILT SAMPLE

SOIL GRID LINE

N

KETTLE PROVINCIAL FOREST

55'50 1:50000

BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

BATTLE MOUNTAIN GOLD COMPANY

SILT SAMPLES AND GRID 1 LOCATION

Sheet 3

PROJECT No.: 75-97	DATA BY:
N.T.S.: 82E-2	DRAWN BY: D.R.L.
DRAWING No.: PLATE 1	DATE: NOV. 1990

SCALE: 1:5000 0 100 200 400 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

56 57 58

360000E 361000E 362000E

5431000

5430000E

property boundary

116°55'

49°01'

Creek

MYERS AREA

L 3970s

L 26

BM 2259

2700

3000

FOREST

March Creek

Cedro Creek

Ck

88+00E 92+00E 96+00E 100+00E

104+00N

100+00N

96+00N

101148 101149 101150 101151 101152 101153 101154 101155 101156 101157 101158 101159 101160 101161 101162 101163 101164 101166 101167 101168 101169 101170 101171 101172 101173 MW-76 101174

55' 60 61 62

20,931

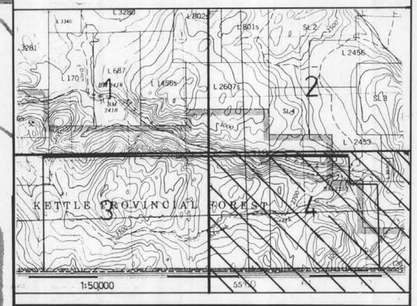
GEOLOGICAL BRANCH
ASSESSMENT REPORT

LEGEND

× 101170 SILT SAMPLE

SOIL GRID LINE

N



BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

BATTLE MOUNTAIN GOLD COMPANY

SILT SAMPLES AND GRID 2 LOCATION

Sheet 4

PROJECT No. 75-97	DATA BY
N.T.S. 82E-2	DRAWN BY D.R.L.
DRAWING No. PLATE 2	DATE NOV. 1990

SCALE

1:5000 0 100 200 400 metres

property boundary

118°56'

49°01'

KETTLE PROVINCIAL FOREST

B500

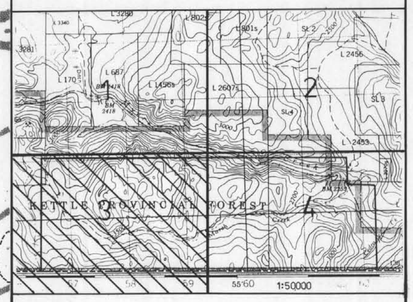
LEGEND

QUATENARY
- Qu — Unconsolidated sediments : till, sand, gravel

TERTIARY
- Tm — Marron volcanics
  - Tmt — sedic trachyte
  - Tmta — trachyandesite
  - Tmtf — tuff with occasional sandy lenses
  - Tma — andesite
  - Tmp — feldspar / pyroxene porphyry
  - Tmfp — feldspar porphyry (occasionally glomeroporphyritic)
- Tkr — Kettle River
  - Tkrak — arkose with occasional siltstone bands

PERMIAN TO CARBONIFEROUS
- CPkh — Knob Hill : greenstone, chert, limestone & quartzites
  - CPkhls — limestone
  - CPkhbx — breccia
  - CPkhgs — greenstone
  - CPkhsed — sediments

- Geological contact (inferred)
- Fault or shear
- Outcrop
- Bedding
- Foliation
- Jointing
- ΔBC2063 — Rock sample



BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

BATTLE MOUNTAIN GOLD COMPANY

GEOLOGY AND ROCK SAMPLE LOCATIONS

Sheet 3

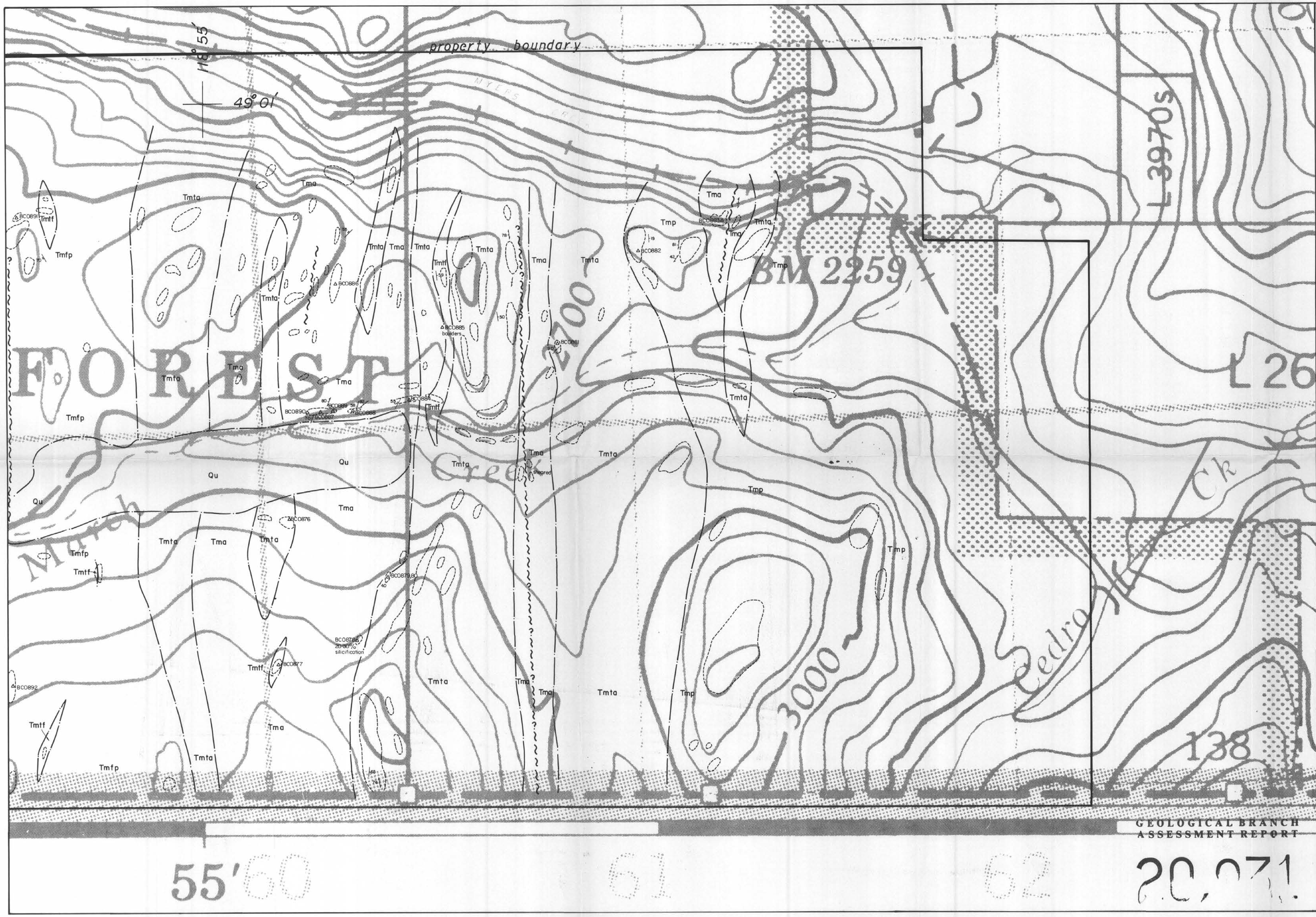
PROJECT No.: 75-97	DATA BY:
N.T.S.: 82E-2	DRAWN BY: D.R.L.
DRAWING No.: PLATE 3	DATE: NOV. 1990

SCALE: 1:5000 — 0 100 200 400 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

56 57 58



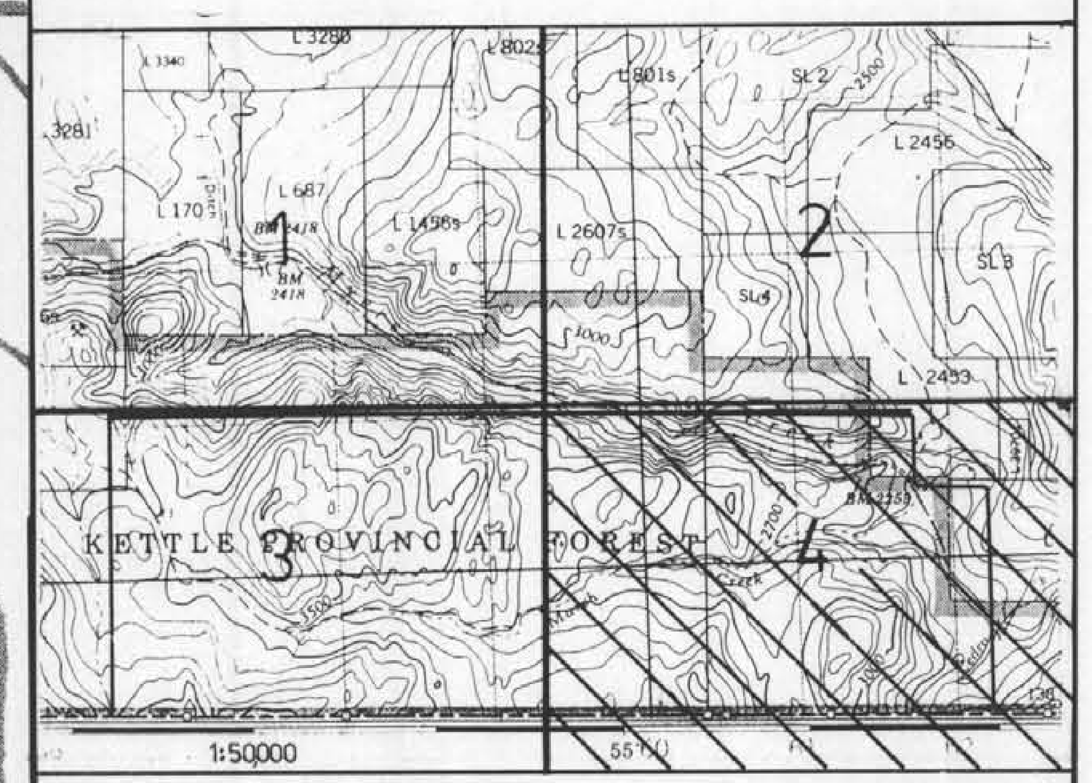
LEGEND

QUATERNARY
- Qu — Unconsolidated sediments : till, sand, gravel

TERTIARY
- Tm — Marron volcanics
  - Tmt — sodic trachyte
  - Tmta — trachyandesite
  - Tmtf — tuff with occasional sandy lenses
  - Tma — andesite
  - Tmp — feldspar / pyroxene porphyry
  - Tmfp — feldspar porphyry (occasionally glomeroporphyritic)
- Tkr — Kettle River
  - Tkrak — arkose with occasional siltstone bands

PERMIAN TO CARBONIFEROUS
- CPkh — Knob Hill : greenstone, chert, limestone & quartzites
  - CPkhls — limestone
  - CPkhbx — breccia
  - CPkhgs — greenstone
  - CPkhsed — sediments

- Geological contact (inferred)
- Fault or shear
- Outcrop
- Bedding
- Foliation
- Jointing
- △BC0882 — Rock sample



BATTLE MOUNTAIN (CANADA) INC.

MARCH CREEK PROJECT

BATTLE MOUNTAIN GOLD COMPANY

GEOLOGY AND ROCK SAMPLE LOCATIONS

Sheet 4

PROJECT No.: 75-97	DATA BY:
N.T.S.: 82E-2	DRAWN BY: D.R.L.
DRAWING No.: PLATE 4	DATE: NOV. 1990

SCALE 1:5000 — 0 100 200 400 metres

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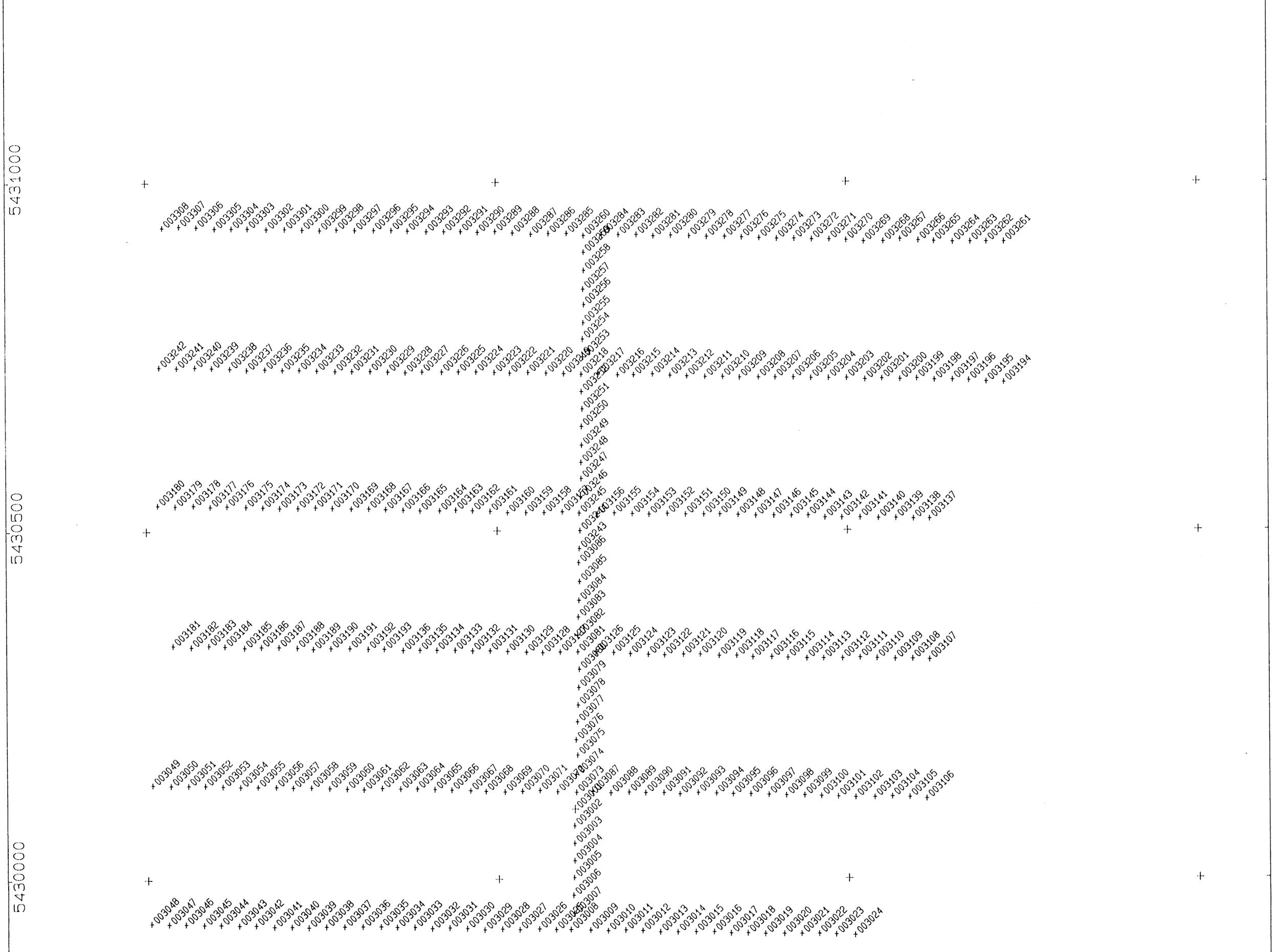
5431000 5430500 5430000 5429500 5429000



GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

50 0 50 100
Scale in Metres

WEST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
SAMPLE LOCATION MAP

Plate 5a	DATE: DEC/90	PROJECT#: 75-97	
	NTS: 82E/2	SCALE 1: 5000	

356500 357000 357500 358000

5431000 5430500 5430000 5429500 5429000

-12 -16 -12 -18 -16 -52 -12 -14

> 12
>10 TO 12
>8 TO 10
>6 TO 8
>4 TO 6
>2 TO 4
0 TO 2

50 0 50 100
Scale in Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

WEST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Gold (ppb)

Plate 5b	DATE: DEC/90	PROJECT#: 75-97	
	NTS: 82E/2	SCALE 1: 5000	

356500 357000 357500 358000

5431000 5430500 5430000 5429500 5429000

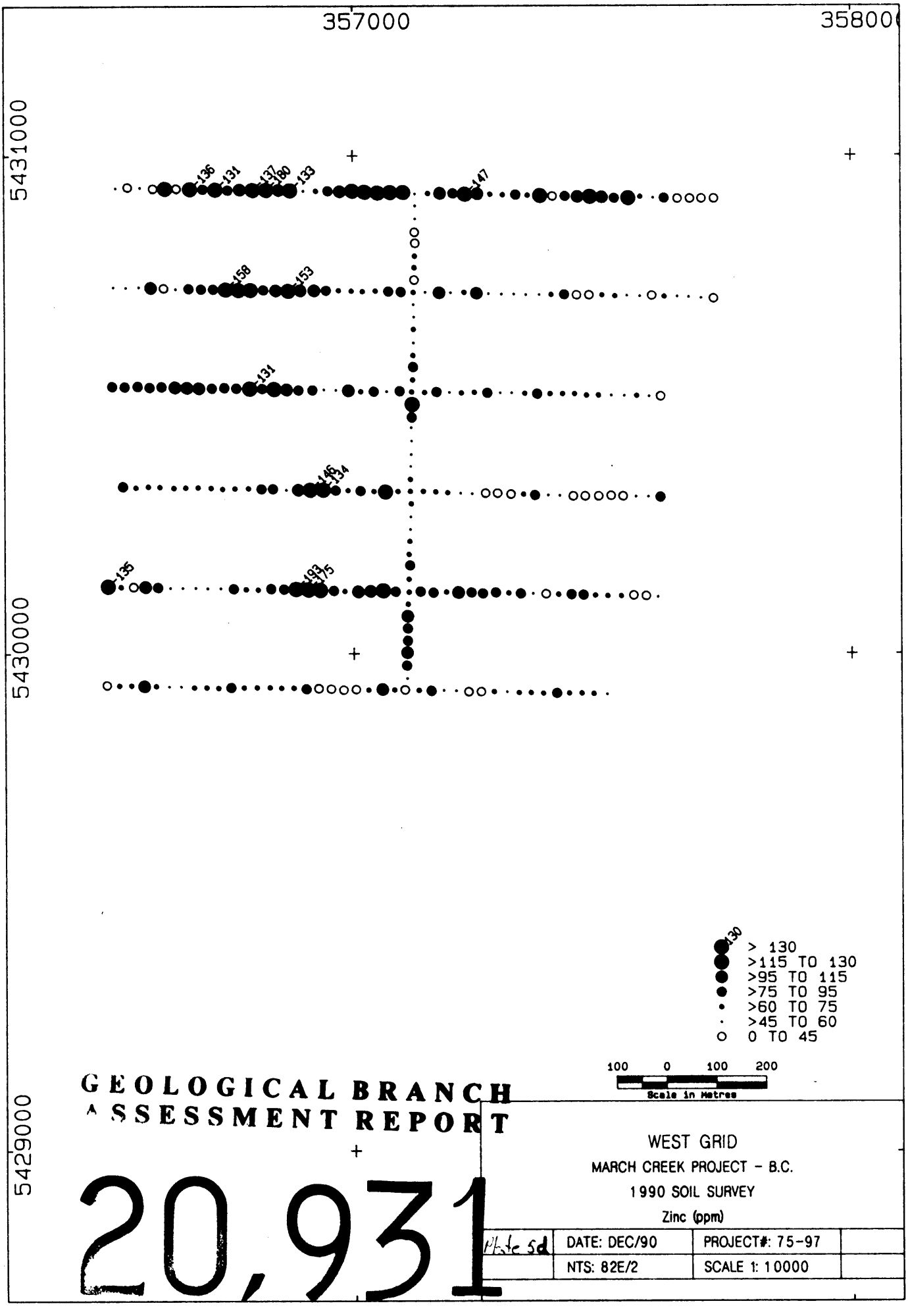
91 103 44 42 40 52 46 46 51 45 51 48 56 52

> 40
>32 TO 40
>26 TO 32
>19 TO 26
>14 TO 19
>10 TO 14
0 TO 10

50 0 50 100
Scale in Metres

WEST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Copper (ppm)

Plate 5c	DATE: DEC/90	PROJECT#: 75-97
	NTS: 82E/2	SCALE 1: 5000



GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

WEST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Zinc (ppm)

Plate 5d	DATE: DEC/90	PROJECT#: 75-97
	NTS: 82E/2	SCALE 1: 10000

359500 360000 360500 361000

5430500

5430000

5429500

5429000

5428500

-23 -36 -70 -22

> 20
>12 TO 20
>9 TO 12
>7 TO 9
>5 TO 7
>3 TO 5
0 TO 3

50 0 50 100
Scale in Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

EAST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Gold (ppb)

Plate 6a	DATE: DEC/90	PROJECT#: 75-97	
	NTS: 82E/2	SCALE 1: 5000	

359500 360000 360500 361000

5430500

5430000

5429500

5429000

5428500

-23 -36 -70 -22

> 20
>12 TO 20
>9 TO 12
>7 TO 9
>5 TO 7
>3 TO 5
0 TO 3

50 0 50 100
Scale in Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

EAST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Gold (ppb)

Plate 6b	DATE: DEC/90	PROJECT#: 75-97
	NTS: 82E/2	SCALE 1: 5000

359500 360000 360500 361000

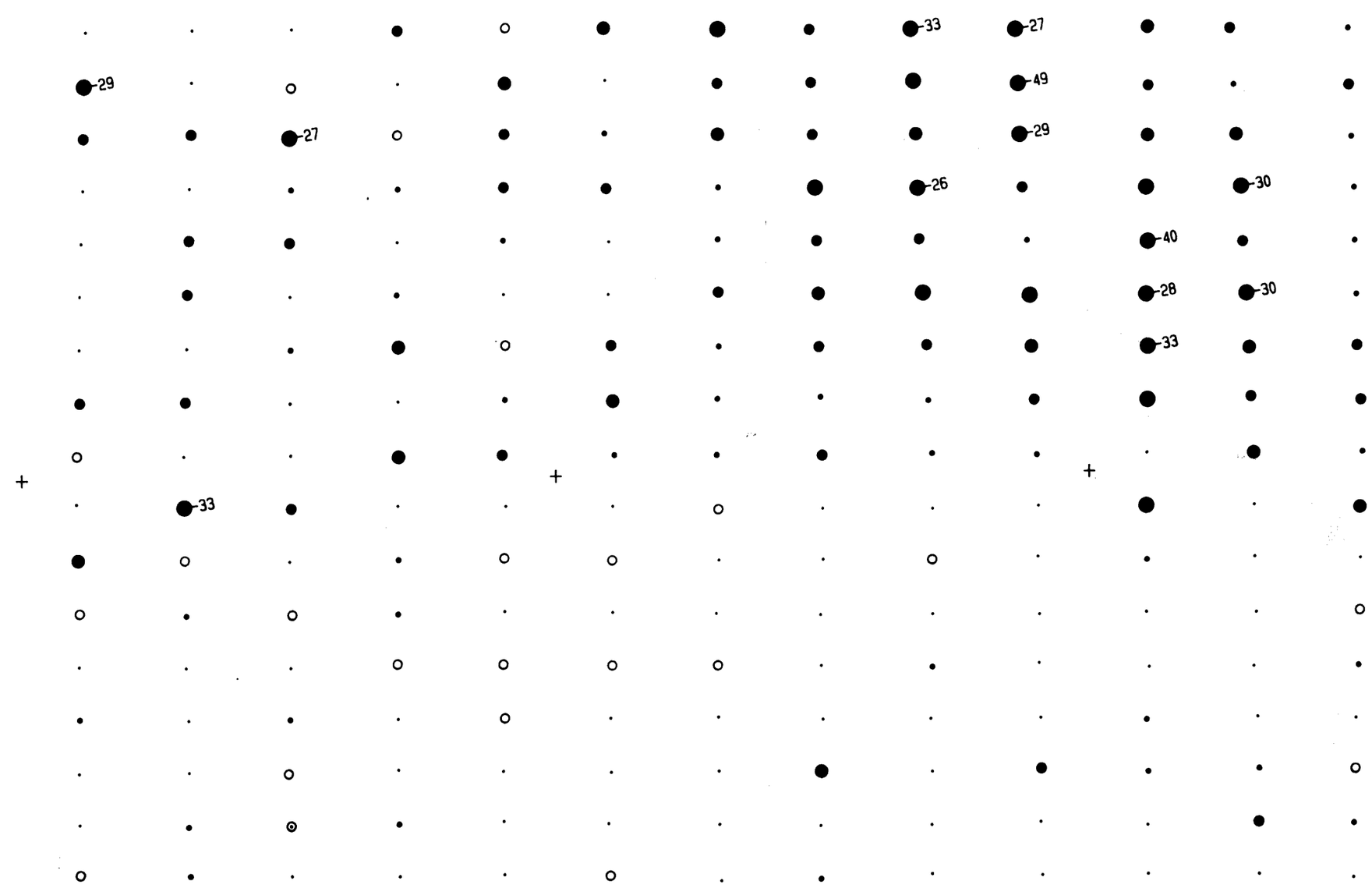
5430500

5430000

5429500

5429000

5428500



> 26
>20 TO 26
>17 TO 20
>14 TO 17
>11 TO 14
>7 TO 11
0 TO 7

50 0 50 100
Scale in Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

EAST GRID
MARCH CREEK PROJECT - B.C.
1990 SOIL SURVEY
Copper (ppm)

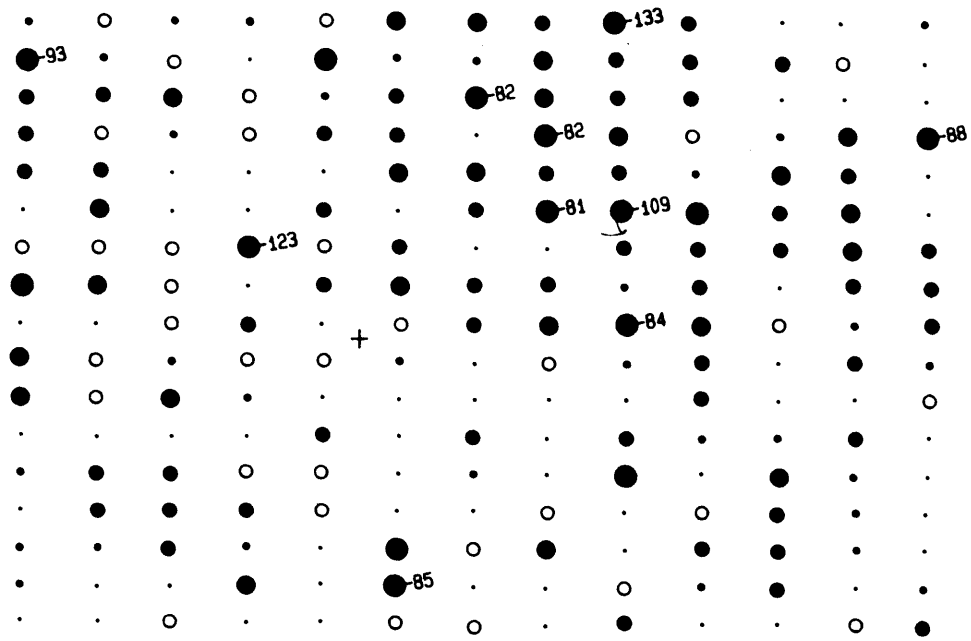
Plate 6c	DATE: DEC/90	PROJECT#: 75-97
	NTS: 82E/2	SCALE 1: 5000

360000

361000

5430000

5429000



80	> 80
	>75 TO 80
	>65 TO 75
	>55 TO 65
	>50 TO 55
	>40 TO 50
	0 TO 40

100 0 100 200

Scale in Metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

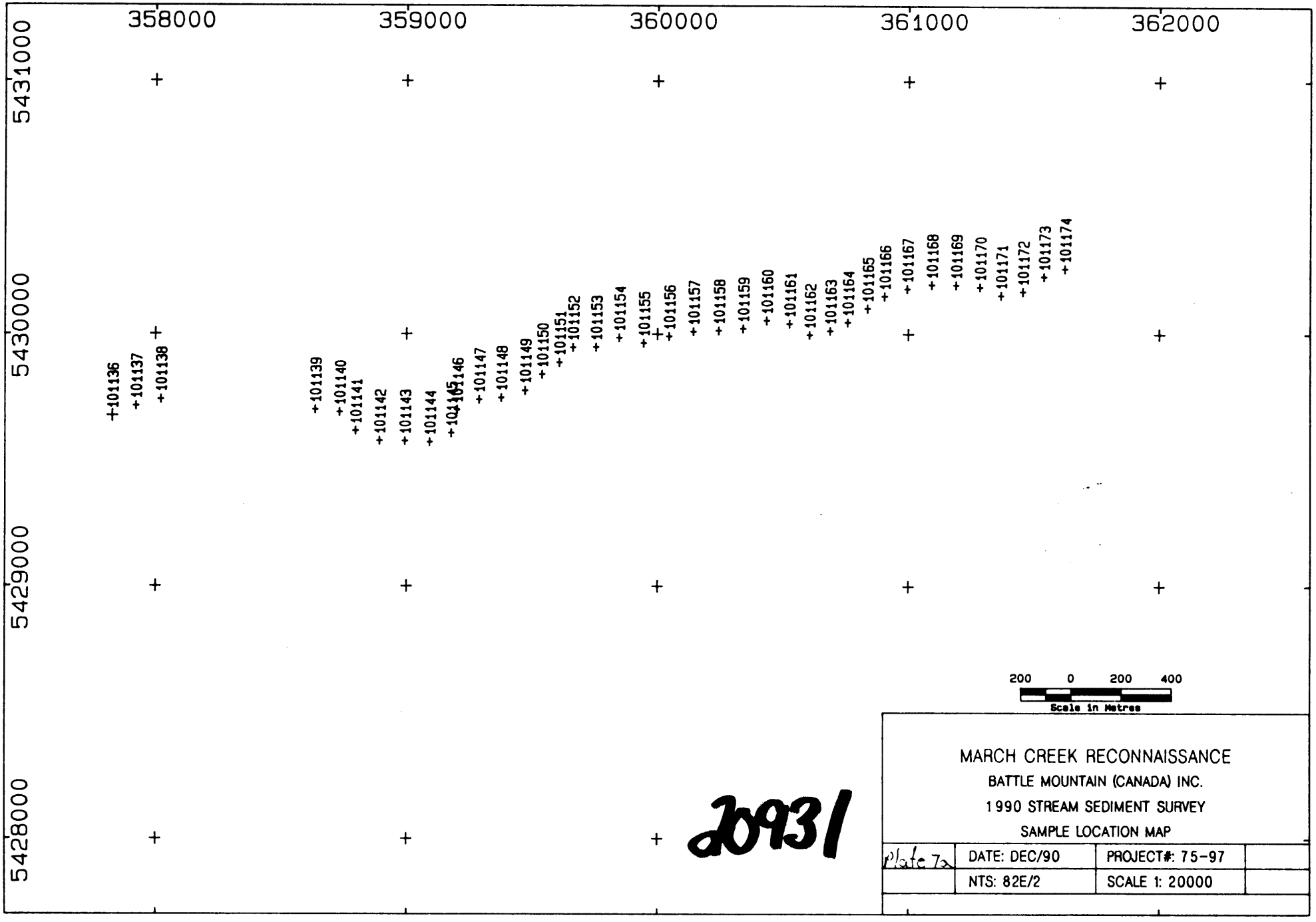
EAST GRID

MARCH CREEK PROJECT - B.C.

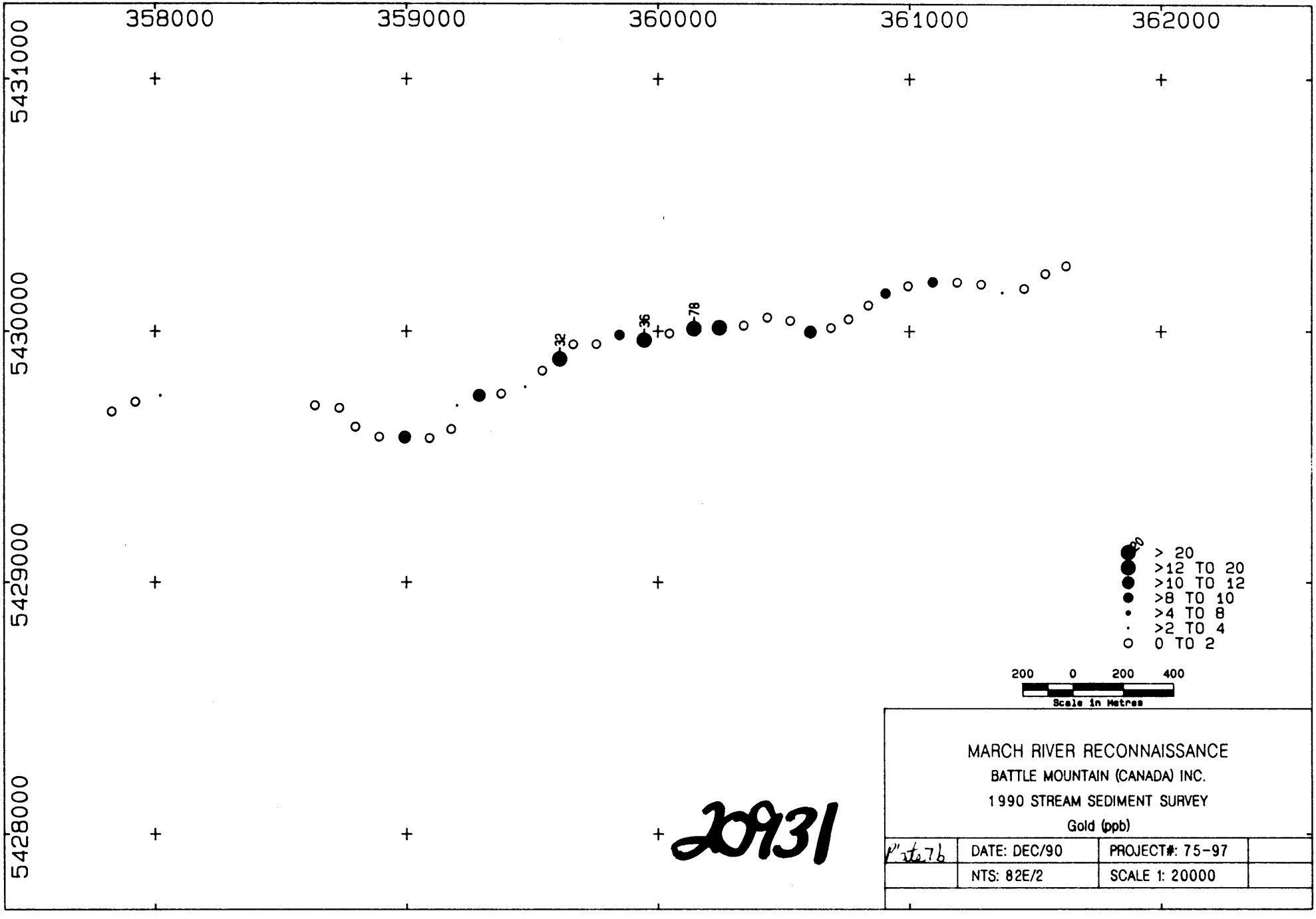
1990 SOIL SURVEY

Zinc (ppm)

Plate 6d	DATE: DEC/90	PROJECT#: 75-97
	NTS: 82E/2	SCALE 1: 10000


358000
359000
360000
361000
362000
5431000
5430000
5429000
5428000
+101136
+101137
+101138
+101139
+101140
+101141
+101142
+101143
+101144
+101145
+101146
+101147
+101148
+101149
+101150
+101151
+101152
+101153
+101154
+101155
+101156
+101157
+101158
+101159
+101160
+101161
+101162
+101163
+101164
+101165
+101166
+101167
+101168
+101169
+101170
+101171
+101172
+101173
+101174
200 0 200 400
Scale in Metres
MARCH CREEK RECONNAISSANCE
BATTLE MOUNTAIN (CANADA) INC.
1990 STREAM SEDIMENT SURVEY
SAMPLE LOCATION MAP
Plate 7a
DATE: DEC/90
PROJECT#: 75-97
NTS: 82E/2
SCALE 1: 20000

20931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359000
360000
361000
362000
5431000
5430000
5429000
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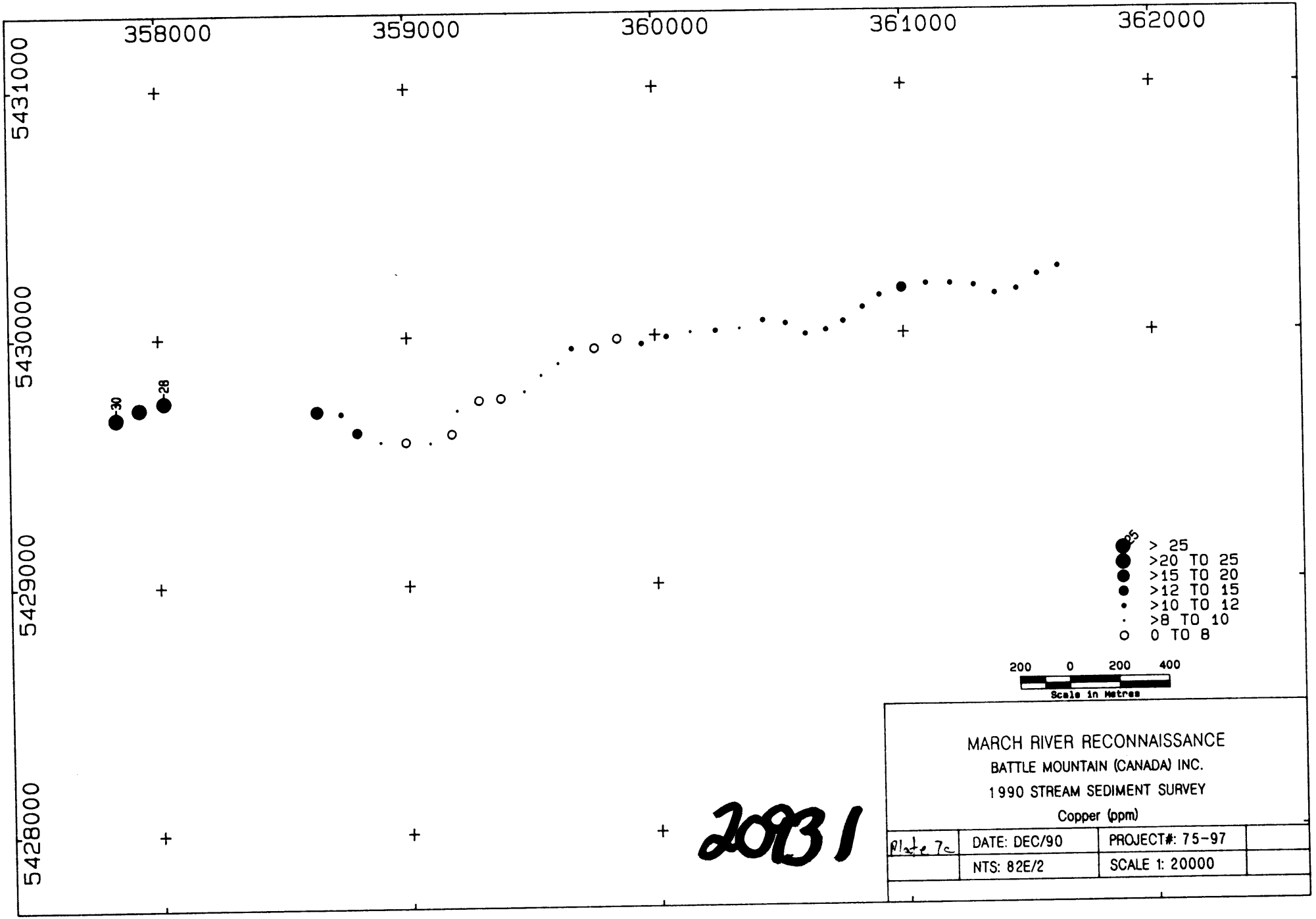
32
36
78
80
> 20
>12 TO 20
>10 TO 12
>8 TO 10
>4 TO 8
>2 TO 4
0 TO 2
200 0 200 400
Scale in Metres
MARCH RIVER RECONNAISSANCE
BATTLE MOUNTAIN (CANADA) INC.
1990 STREAM SEDIMENT SURVEY
Gold (ppb)
DATE: DEC/90
PROJECT#: 75-97
NTS: 82E/2
SCALE 1: 20000
20931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360000
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30
28
25
> 25
>20 TO 25
>15 TO 20
>12 TO 15
>10 TO 12
>8 TO 10
0 TO 8
200 0 200 400
Scale in Metres
MARCH RIVER RECONNAISSANCE
BATTLE MOUNTAIN (CANADA) INC.
1990 STREAM SEDIMENT SURVEY
Copper (ppm)
Plate 7c
DATE: DEC/90
PROJECT#: 75-97
NTS: 82E/2
SCALE 1: 20000
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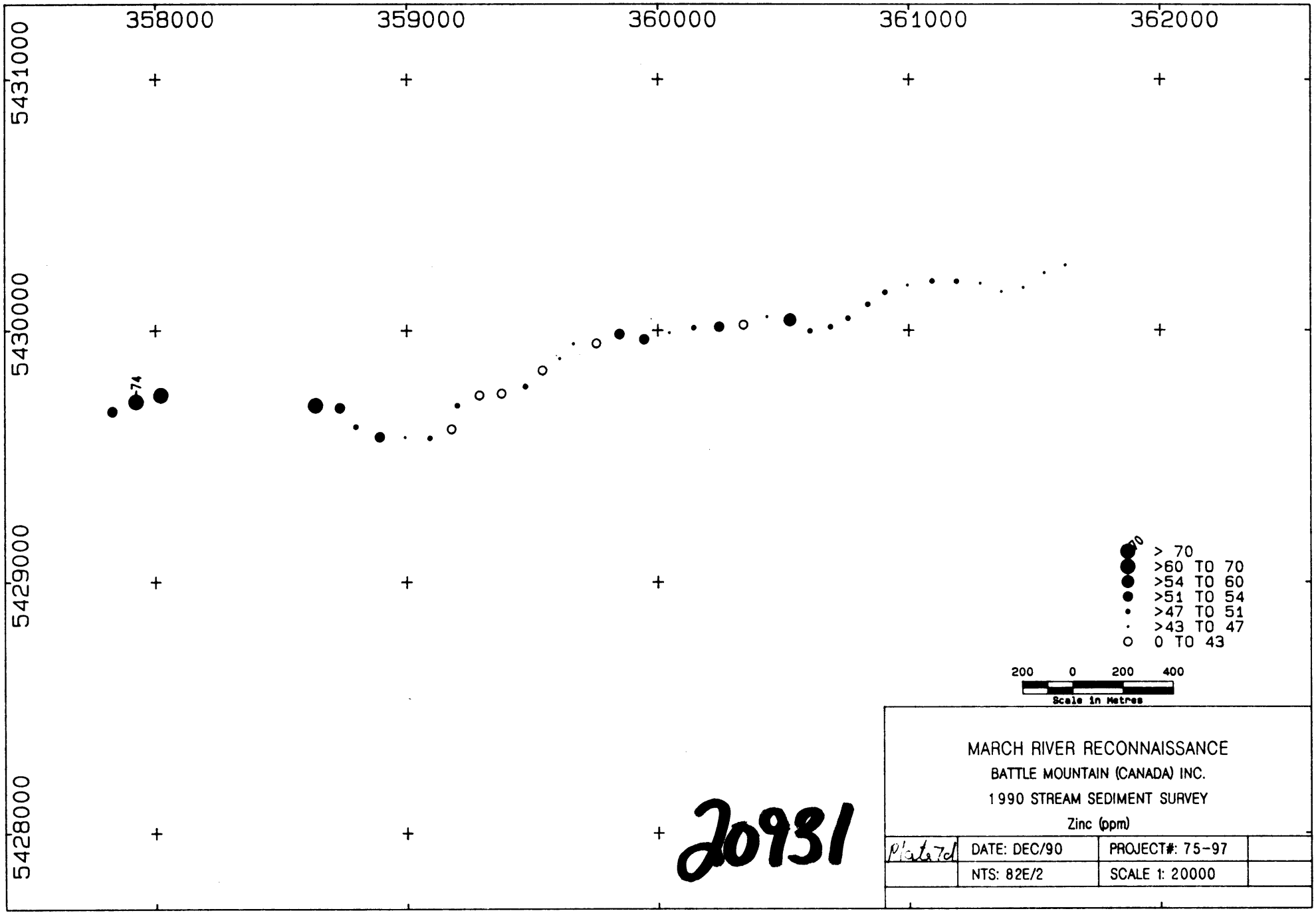
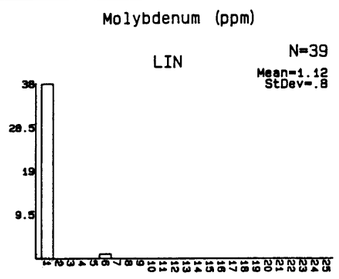
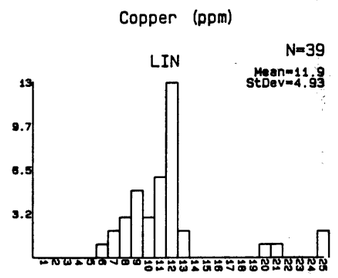
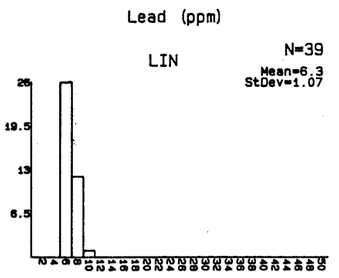
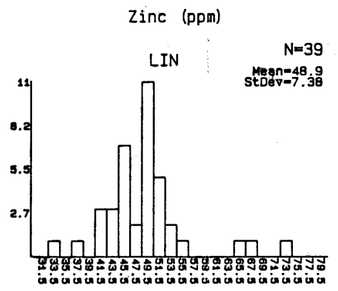

358000
359000
360000
361000
362000
5431000
5430000
5429000
5428000
74
> 70
>60 TO 70
>54 TO 60
>51 TO 54
>47 TO 51
>43 TO 47
0 TO 43
200 0 200 400
Scale in Metres
MARCH RIVER RECONNAISSANCE
BATTLE MOUNTAIN (CANADA) INC.
1990 STREAM SEDIMENT SURVEY
Zinc (ppm)
DATE: DEC/90
PROJECT#: 75-97
NTS: 82E/2
SCALE 1: 20000

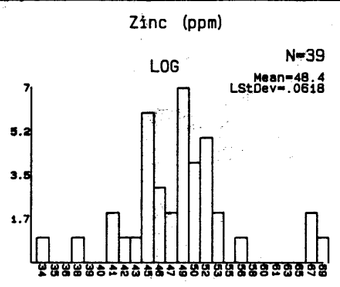
20931

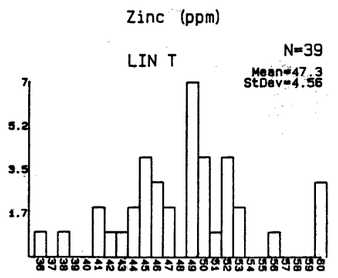


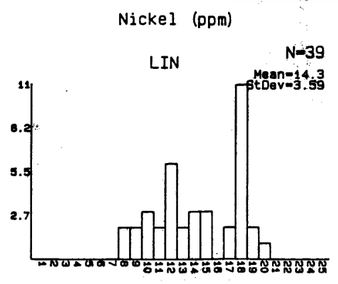


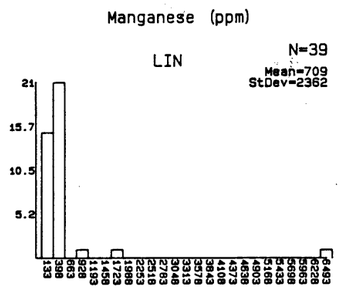


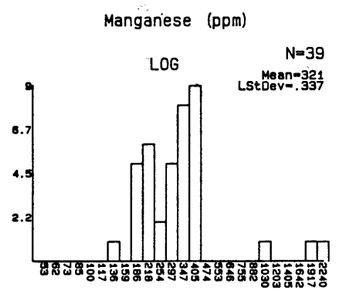


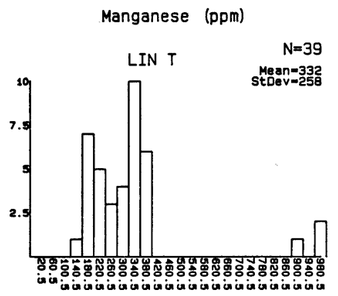


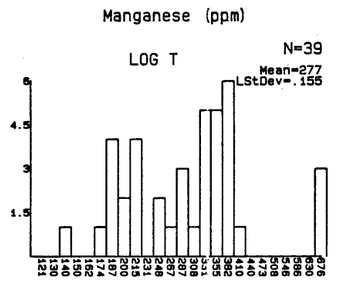


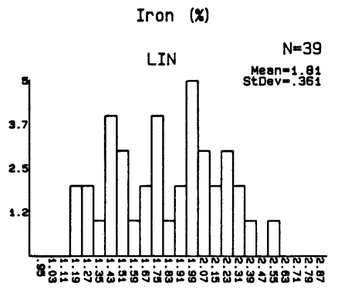


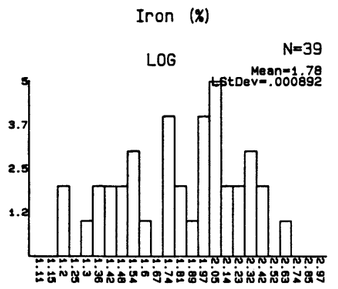


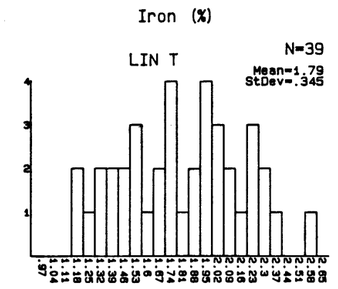


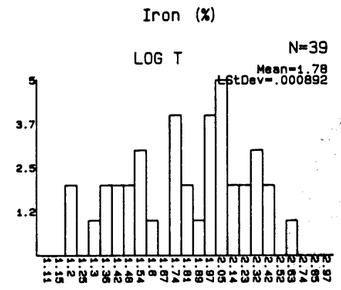


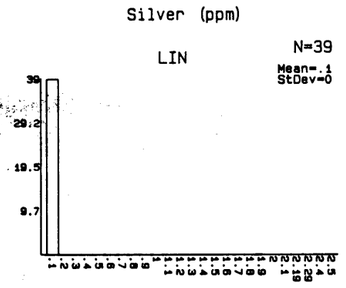


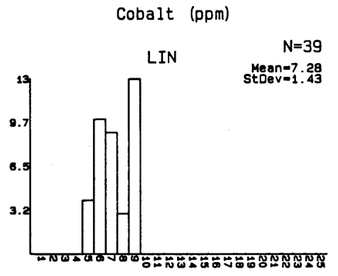


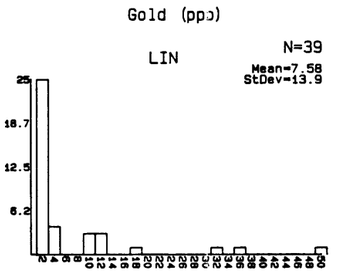


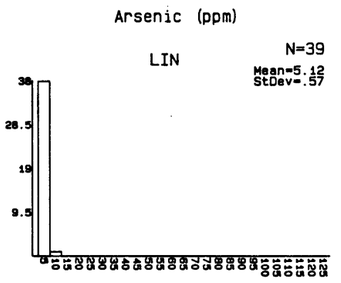


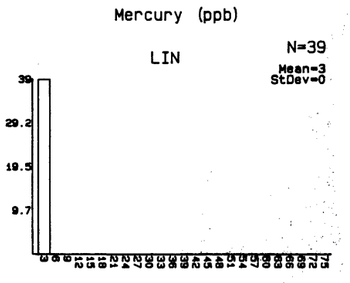


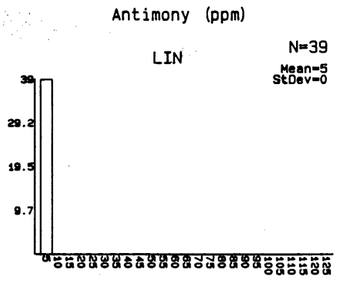


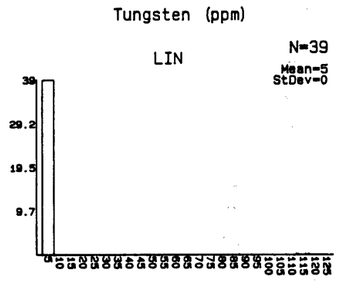


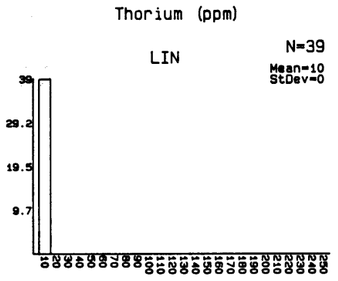


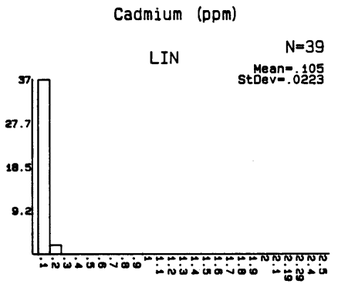


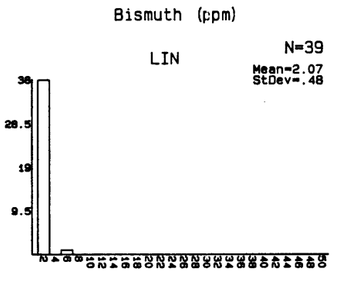


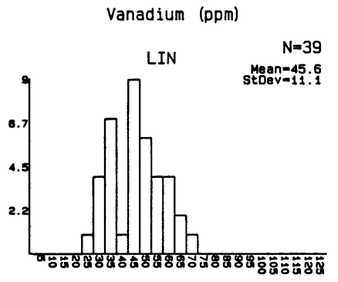


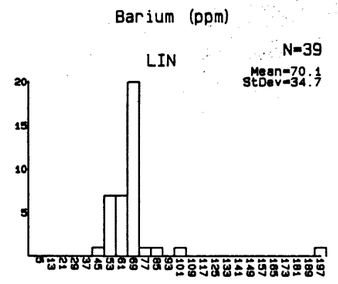


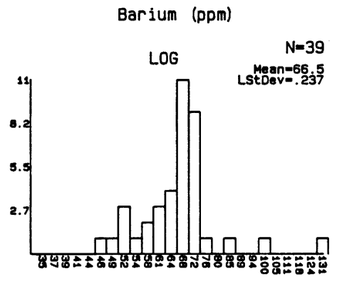


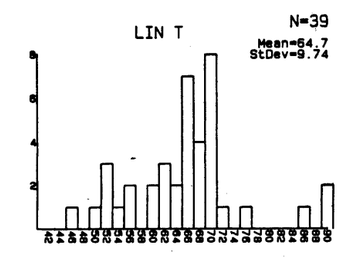


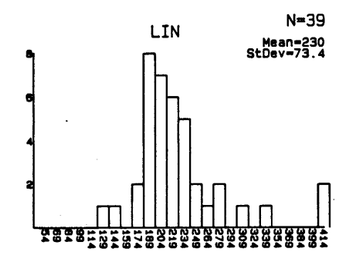


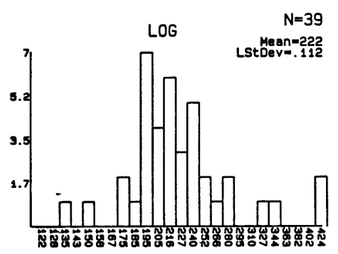


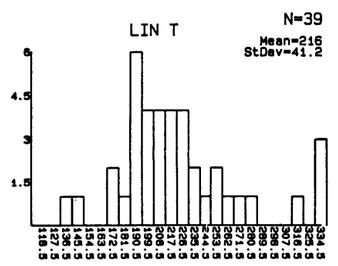


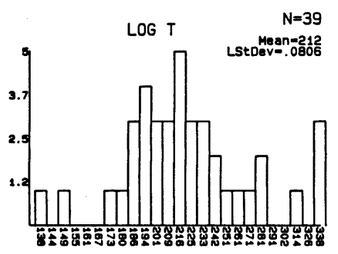


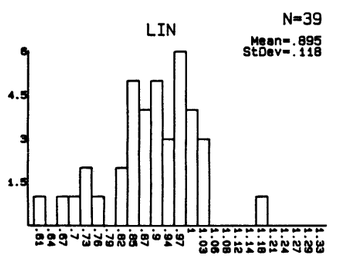


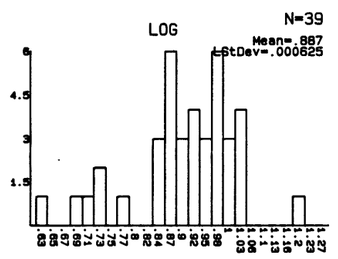


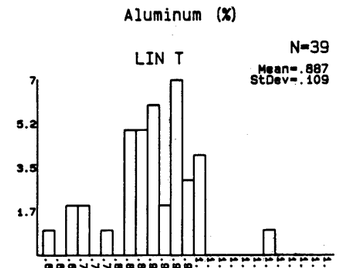


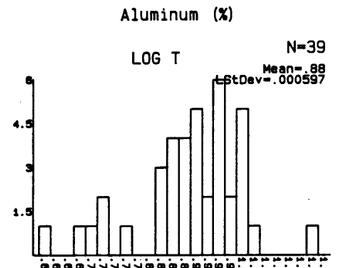


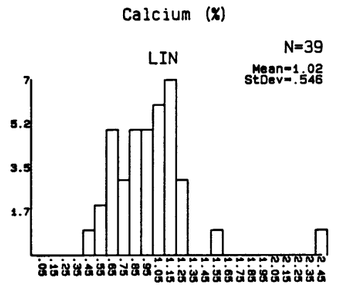


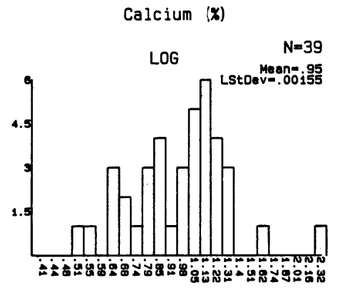


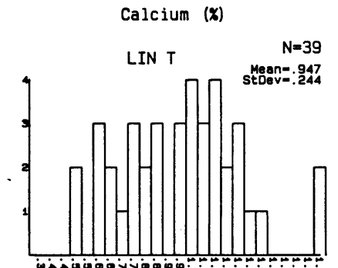












GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,931

DISTRIBUTION HISTOGRAMS

LIN = LINEAR
LOG = LOGARITHMIC
LINT= TRUNCATED LINEAR
LOGT= TRUNCATED LOGARITHMIC

SAMPLE SELECTION CRITERIA:

SAMPLE TYPE	10
PROPERTY CODE	ALL
LSE CODE	ALL
OB ORIGIN	ALL
SAMPLE TEXTURE	ALL
SOIL HORIZON	ALL
BEDROCK GEOLOGY	ALL
NORTH LIMIT	NONE
SOUTH LIMIT	NONE
EAST LIMIT	NONE
WEST LIMIT	NONE

MARCH CREEK PROJECT
BATTLE MOUNTAIN (CANADA) INC.
1990 SOIL STREAM SEDIMENT SURVEY
HISTOGRAMS

DATE: DEC/90	PROJECT#: 75-97
NTS: 82E/02	Plate 8