Soil Geochemical Assessment Report

Pie Claims

NTS 94F/6E, 7W

Omineca Mining Division

Latitude: 57° 28′ N Longitude 125° 00′ W

Owner: Ecstall Mining Corporation

Operator: Metall Mining Corporation

Pie 93 Group

Pie 3
Pie 4
Pie 8
Pie 9

Pie 92 Group

Pie 1
Pie 2
Pie 5
Pie 6
Pie 7
Pie 10
Pie 11
Pie 99
Pie 10

G. S. Wells

Metall Mining Corporation

October, 1993

Vancouver, B.C.

Table of Contents

		Page
1.	INTRODUCTION	1
	a. Location, Access and Physiography	1
	b. Mineral Rights	3
	c. Previous Work	3
2.	GEOLOGY	6
	a. Regional	6
	b. Local	6
3.	SOIL GEOCHEMISTRY	8
	a. Survey Objectives	8
	b. Sampling Procedures	8
	c. Results	9
	i. Pie C Grid	9
	ii. Pie D Grid	12
	iii. PIE E Grid	12
4.	CONCLUSIONS AND RECOMMENDATIONS	12
5.	COST STATEMENT	14
6.	REFERENCES	16
7.	STATEMENT OF QUALIFICATIONS	17

List of Appendices

Appendix I: Sample Preparation and Analytical Procedures

Appendix II: Analytical Certificates

List of Figures

		Page
Figure 1:	Location Map.	2
Figure 2:	Claim Map	4
Figure 3:	Generalized Geology - Pie claims.	5
Figure 4:	Generalized Stratigraphy - South Gataga area. .	7
Figure 5a:	Pb-Zn in soils - Pie claims -1: 5000	in pocket
Figure 5b:	Cu-Fe in soils - Pie claims -1: 5000	in pocket
Figure 5c:	Ag-Ba in soils - Pie claims -1: 5000	in pocket
Figure 5d:	Cd-Mn in soils - Pie claims -1: 5000	in pocket

List of Tables

Table 1:	Pie Soil Samples - Statistical Data	10

Soil Geochemical Assessment Report
Pie Claims

1. INTRODUCTION

Metall Mining Corporation (formerly Minnova Inc.) acquired an option on the PIE claims from Ecstall Mining Corporation in June, 1992 to evaluate their potential for hosting a SEDEX-style Ba-Pb-Zn massive sulphide deposit. This report describes results of soil geochemical surveys carried out on the PIE 1, 2, 3, 4, 6 and 99 claims during the period June 28th to July 18th, 1993.

a. Location, Access and Physiography

The Pie claims are located in the western ranges of the Rocky Mountains, 250 km northwest of MacKenzie, B.C. (Figure 1). Fort Ware, a small native community and Fletcher Challenge's Finbow logging camp are located on the Finlay River, 40 km west and 35 km southwest of the claims respectively.

Access to the area is improving due to logging and mining activity. The Stronsay mine road is located in the Paul River valley just west of the north end of the Pie claims. Logging activity in the Del creek watershed should provide access to the south end of the Pie claim group by 1994. During the current exploration program, the property was accessed using a Pacific Western Bell 206B helicopter which was based at the Finbow logging camp.

Topographic relief on the Pie claims is moderate to steep with elevations ranging between 1200 and 2100 meters ASL. Most of the area is above tree line which occurs at an elevation of approximately 1600 m. Creek valleys are covered with a dense forest of mature spruce, balsam and pine.

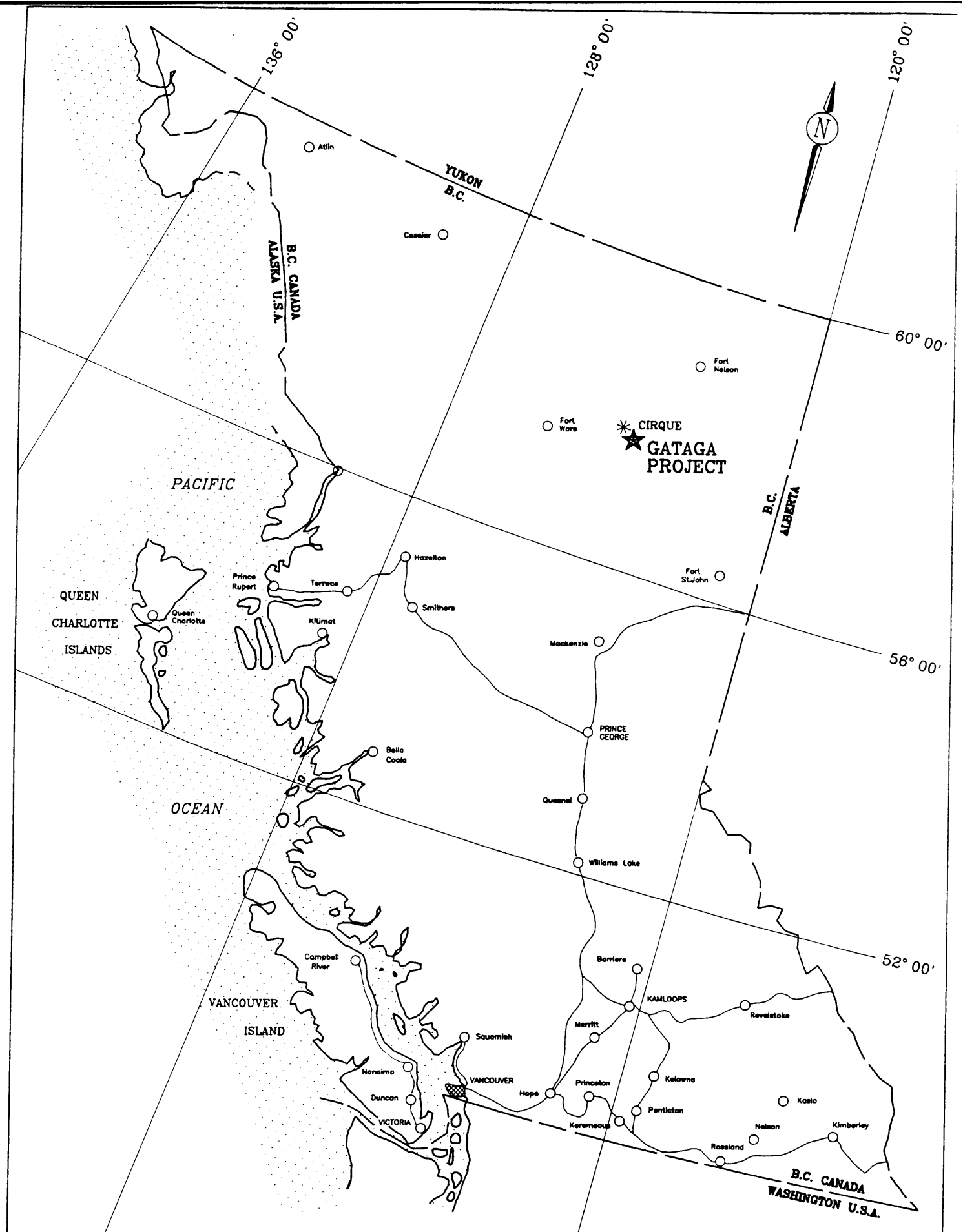


FIGURE 1

GATAGA PROJECT LOCATION MAP

MINNOVA Inc.

FILE: PIEASS

b. Mineral Rights

The soil sampling was carried out on the PIE 1, 2, 3, 4, 6 and 99 claims which form part of the PIE 92 and PIE 93 groups (Figure 2). The status of these claims is as follows:

Claim	Title Number	# of Units	Month of Record
PIE 92 GROUP			
Pie 1	238030	18	July
Pie 2	238031	18	July
Pie 5	238034	12	July
Pie 6	238035	12	July
Pie 7	238036	6	July
Pie 10	238047	6	Sept
Pie 11	238048	6	Sept
Pie 99	241335	10	Oct
Pie 100	309109	12	May
PIE 93 GROUP			
Pie 3	238032	6	July
Pie 4	238033	8	July
Pie 8	238037	8	July
Pie 9	238038	15	July

c. Previous Work

The Pie claims were staked by Riocanex in 1978 following the discovery of the Cirque deposit (30 m tonnes @ 8.1% Zn, 2.2% Pb) by Cyprus Anvil and Hudson Bay Oil and Gas in 1977. Exploration work during the period of 1978 to 1982 consisted of soil geochemical surveys, limited VLF and HEM surveys, geological mapping, hand trenching and nine diamond drill holes (2365 m). This work discovered several barite and galena showings that occur near the contact between mid-Devonian Kwadacha limestones and upper Devonian Gunsteel shales (Figure 3). In addition, three areas of sphalerite mineralization were discovered in the limestones. The soil geochemical surveys outlined several large Pb-Zn anomalies

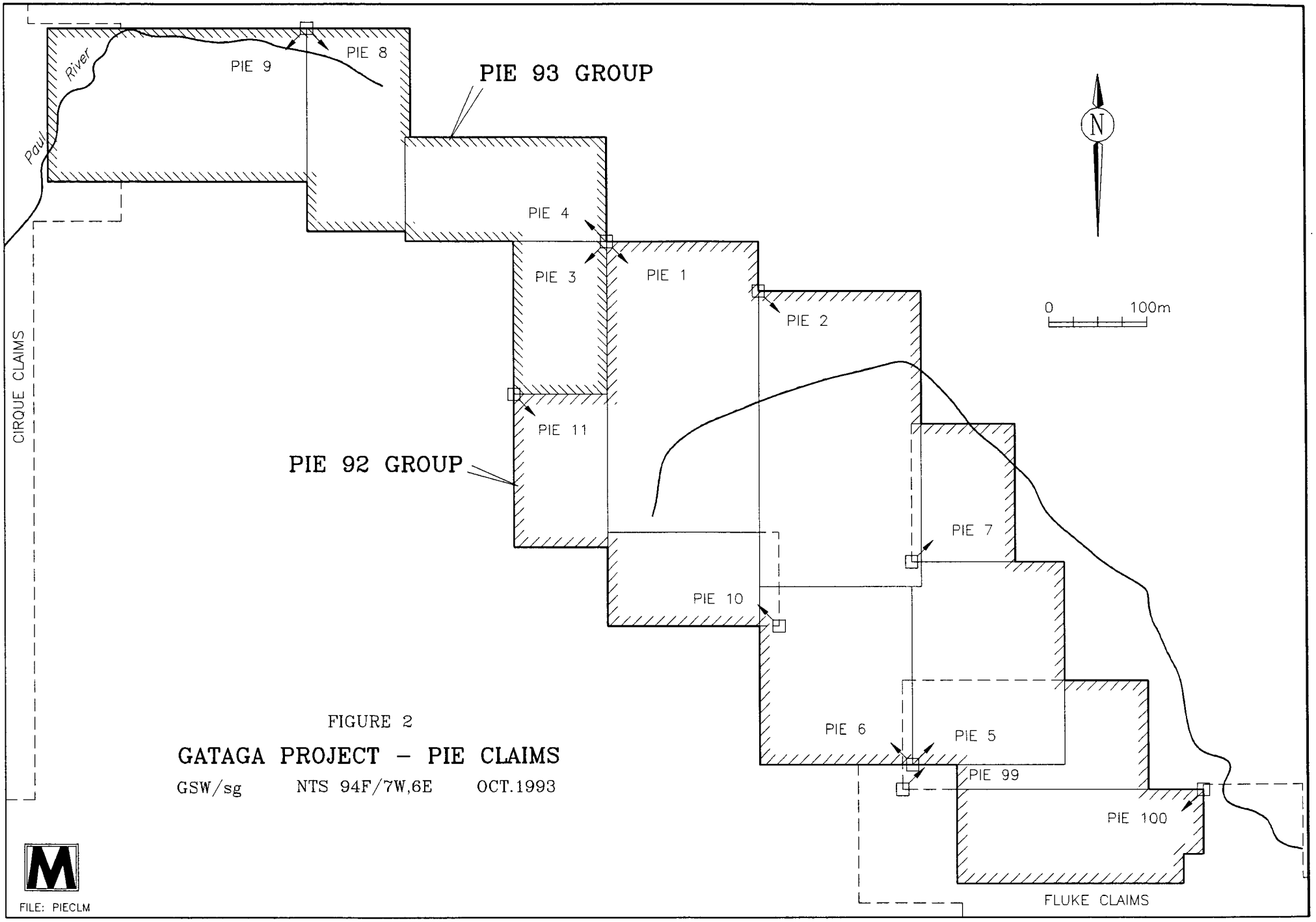


FIGURE 2

GATAGA PROJECT – PIE CLAIMS

GSW/sg NTS 94F/7W,6E OCT.1993

FILE: PIECLM

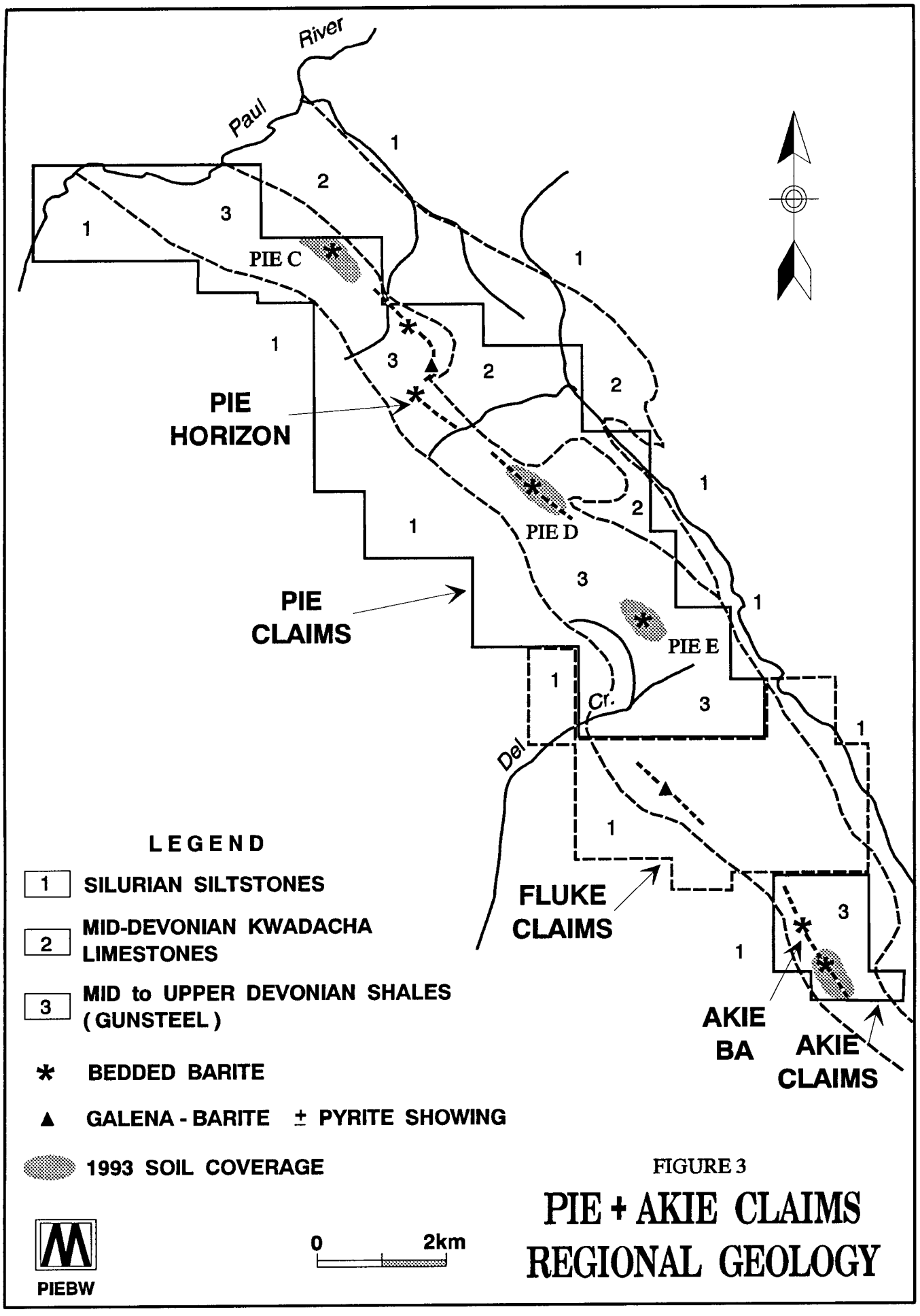


FIGURE 3

PIE + AKIE CLAIMS REGIONAL GEOLOGY

which straddle the limestone-shale contact in the vicinity of the galena and barite showings.

Since 1982, the property has been controlled by Ecstall Mining Corporation and has remained largely dormant except for an airborne VLF-Mag survey which Ecstall did in 1991. In 1992, Minnova Inc. carried out soil surveys in the vicinity of the PIE galena showing and isolated airborne EM anomalies (Wells, 1992).

2. GEOLOGY

a. Regional

The Pie claims occur on the northeastern margin of the Kechika Trough which is the southeastern extension of the Selwyn Basin - a 1200 km belt of sediments which formed off the western edge of ancestral North America. The Kechika Trough is a 180 km long, northwesterly trending belt of Early Cambrian to Triassic sediments which occur in a number of southwest dipping thrust fault slices. A detailed review of the stratigraphy and descriptions of the various formations is given by MacIntyre (1992).

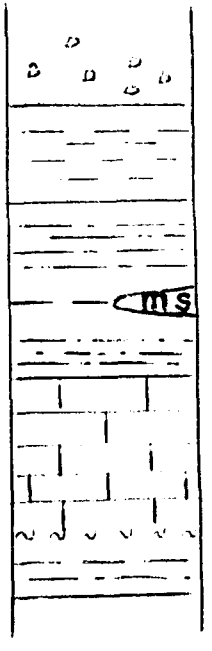
Exploration activity in the area has concentrated on stratiform barite - sulphide showings which are hosted in Devonian shales. Notable occurrences in the belt include Driftpile, Mt. Alcock, Elf and Cirque. The most developed prospect is the Cirque deposit which contains an estimated 30 m Tonnes @ 8.1% Zn and 2.2% Pb.

b. Local

The generalized stratigraphy of the Pie claims is presented in Figure 4. The claim group is underlain by 3 northwesterly trending zones of sediments (Figure 3). The most western belt consists of brown to orange weathering Silurian siltstones. The middle unit consists of recessive, steel grey to black weathering upper Devonian shales and siltstones (Gunsteel

FIGURE 4 : GENERALIZED STRATIGRAPHY – SOUTH GATAGA AREA

(after MacIntyre 1992)



AGE	GROUP	FORMATION	ROCK TYPES
U Devonian, Mississippian	Earn	Warneford	chert pebble conglomerate
		Akie	siltstone
Mid – Upper Devonian	Earn	Gunsteel	shale,bedded – nodular barite,mass sulphides
Lower – Mid Devonian	Road River	Kwadacha	fossiliferous limestones
Silurian	Road River		shales,siltstones, cherts

formation) . The most eastern belt of rocks consists of grey weathering, fossiliferous limestones of the mid-Devonian Kwadacha formation. More detailed descriptions of these units are given in a paper prepared by MacIntyre (1992).

The area is structurally complex due to a combination of folding and thrust faulting. The Kwadacha limestone is folded in a gentle anticlinal structure and the overlying Akie and Gunsteel shales and siltstones are folded into a slightly overturned syncline. The Silurian siltstones are in thrust fault contact with the Devonian shales and appear to overly these younger rocks.

Mineralization on the Pie claims consists of 2 types. Disseminated sphalerite showings occur in the Kwadacha limestones. The second type of mineralization consists of stratiform bedded barite +/- galena which occurs at or near the contact between the limestones and shales.

3. SOIL GEOCHEMISTRY

a. Survey Objectives

Multi-element ICP soil surveys were carried out over parts of the Pie claims

i. to trace barite horizons in areas of vegetation cover and

ii. to identify areas of anomalous metal content associated with these horizons.

b. Sampling Procedures

Work was done on widely spaced (200m), northeasterly trending, flagged lines in the vicinity of previously discovered barite occurrences located northwest and southeast of the PIE galena showing (Figure 3). Samples of the B soil horizon were

taken at 25 meter intervals along these lines. The B horizon is usually well developed, grey to brown in colour and occurs at depths ranging between 5 and 20cm below the surface. Samples varying in size between 300 and 500 grams were placed in Kraft paper bags. Samples were dried in the field and then sent to IPL Labs in Vancouver for analysis. Each sample was analyzed for Cu, Pb, Zn, Ag, Cd, Fe, Mn and Ba using an ICP technique. Laboratory procedures for sample preparation and analysis are included in Appendix I.

Analytical certificates are included in Appendix II and the data is plotted at a 1:5000 scale on Figure 5a-d. Statistical data for soil sampling on the Pie claims is presented in Table 1. Frequency histograms were generated for each element to determine the type of population distribution (normal or log normal). Anomalous values are those greater than mean +2 standard deviations for normal populations or geometric mean + 2 standard deviations for log normal populations.

c. Results

i. Pie C Grid

The Pie C grid covers the Kwadacha limestone - Gunsteel shale contact and a bedded barite occurrence located northwest of the PIE galena showing (Figure 5a-d). Several weakly anomalous zones have been outlined and these individual anomalies are discussed below.

Pb

Anomalous Pb values which occur near BLO on lines 102N to 110N (anomaly Pb A) are coincident with the contact between the Kwadacha limestones and Gunsteel shales. Isolated zinc highs occur within this zone of Pb enrichment.

Table 1: 1993 PIE SOIL SAMPLES - STATISTICAL DATA

ELEMENT	UNITS	N	MINIMUM	MAXIMUM	DISTRIBUTION	MEAN	STANDARD DEVIATION	ANOMALOUS VALUES
Ag	ppm	283	0.05	2.2	normal	0.4	0.3	0.93
Ba	ppm	291	485	10789	log normal	3132	1726	9141
Cd	ppm	288	0.05	46.1	normal	0.41	1	2.4
Cu	ppm	291	6	125	log normal	24.9	14.5	60
Fe	wt.%	287	0.74	12.89	normal	2.35	1.07	4.49
Mn	ppm	287	17	1503	log normal	106	103	328
Pb	ppm	287	17	113	log normal	35.5	9.6	58
Zn	ppm	286	46	1916	log normal	202	107	494

Zn

Zinc values on the PIE C grid are generally low except for isolated highs associated with Pb anomaly A and a zone of zinc enrichment (anomaly A) that occurs to the northwest and in the interpreted footwall of the bedded barite occurrence. Zinc values in anomaly A range between 501 and 1916 ppm.

Cu

Copper anomaly A occurs near the western ends of lines 102N and 104 N. Values are weakly anomalous - ranging between 73 and 93 ppm. This anomaly is underlain by the Gunsteel shales.

Fe

A weakly anomalous zone of Fe enrichment occurs near the ends of lines 100N, 102N and 104 N. This anomaly, which is coincident with copper anomaly A, is underlain by Gunsteel shales.

Ag

Several isolated anomalous Ag values occur on the PIE C grid in areas underlain by Gunsteel shales.

Ba

No statistically anomalous Ba values are present on the PIE C grid. Elevated values of up to 8426 ppm are associated with the bedded barite occurrences located near lines 104N and 102N.

Cd

Two zones of anomalous Cd values occur on the PIE C grid. Anomaly A which has values as high as 46.1 ppm is coincident with the Pb and Zn anomaly associated with the contact between the Kwadacha limestones and Gunsteel shales. Anomaly B has values as high as 24.6 ppm and is underlain by Gunsteel shales. Cd anomaly B also has coincident Zn and Ag anomalies associated with it.

Mn

Only five Mn samples have anomalous values. Three of these occur near the western end of line 104N and have coincident Cu and Fe enrichments.

ii. Pie D Grid

The Pie D grid which is located southeast of the PIE galena showing covers occurrences and projected strike extensions of blebby and bedded barite horizons. Analytical results are plotted on figures 5a - d inclusive.

In general, isolated one to three sample Pb, Zn, Ag, Ba and Cd anomalies are present but there are no zones of widespread enrichment. A 150 meter wide zone of Fe and Mn enrichment occurs on lines 2100N and 2200N. It is underlain by Gunsteel shales and occurs downslope and along strike of the bedded barite occurrence.

iii. PIE E Grid

The Pie E grid is located 1.5 km southeast of the Pie D grid. It was sampled in an attempt to locate the projected strike extent of barite horizons that occur on the Pie D grid.

Several isolated one or two samples Pb, Cu, Fe, Ag and Mn anomalies are present but no widespread zones of metal enrichment were located.

4. CONCLUSIONS AND RECOMMENDATIONS

Soil sampling was carried out over three small grids on the Pie claims. A total of 292 were collected and analyzed for eight elements (Pb, Zn, Ag, Ba Cu, Fe, Mn, Cd) using ICP techniques.

The Pie C grid, which is located to the northwest of the Pie galena showing, covers the contact between the Kwadacha limestone and Gunsteel shales and a bedded barite horizon located

near the western end of the lines. A coincident Pb, Cd and spotty Zn anomaly occurs at the contact between the limestones and shales. The magnitude of these anomalies is low and consequently they are not thought to be associated with economic mineralization. A coincident Zn, Cd and spotty Ag anomaly covering a strike length of 600+ meters is located at the northwestern edge of the PIE C grid. This anomaly occurs in Gunsteel shales which form the footwall to the bedded barite occurrence located near L104N. Further prospecting and soil surveying is recommended to assess the extent and significance of this soil anomaly.

Soil sampling on the PIE D and PIE E grids was done to locate areas of anomalous metal content associated with barite horizons and their projected strike extensions. No zones of widespread metal enrichment were found. Several isolated, low-key anomalous values are present but they are not considered to be significant. In this area, the Ba soil geochemistry was not effective in tracing the strike extent of barite horizons in zones of vegetation cover. Further followup work on the PIE D and PIE E grids is not warranted at this time.

5. COST STATEMENT

Claim Group PIE 93 filed for $7,400

-work done on claims PIE 3 and 4

1. Salaries

D. Denboer	3 days @ $130/day	$390
P. Nye	3 days @ $110/day	$330
G. S. Wells	2 days @ $350/day	$700

2. Transportation

Helicopter charter (Pacific Western)
4.5 hrs @ $800/hr $3600

Air Service - (Williston Air) McKenzie-Finbow $250
(pro-rated crew mob-demob + sample shipments)

3. Accommodation/foot at Finbow Camp

11 man days @ $85/day $935
(includes helicopter pilot)

4. Analyses

146 samples @ $6.00/sample $ 876

5. Drafting

S. Gokool 2 days @ $150/day	300.00
computer + plotting time	100.00
Total	$7481.00

Claim Group PIE 92 — filed for $8,900

-work done on claims PIE 1, 2, 6, and 99

1. Salaries

D. Denboer	5 days @ $130/day	$650
P. Nye	3 days @ $110/day	$330
J. James	1 day @ $150/day	$150
G. S. Wells	3 days @ $350/day	$1050

2. Transportation

Helicopter charter (Pacific Western)
5.5 hrs @ $800/hr — $4400

3. Accommodation/foot at Finbow Camp

17 man days @ $85/day (includes helicopter pilot) — $1445

4. Analyses

146 samples @ $6.00/sample — $ 876

5. Drafting

S. Gokool 2 days @ $150/day	300.00
computer + plotting time	100.00

Total $9301.00

6. REFERENCES

MacIntyre, D.G. 1992; Geological setting and genesis of sedimentary exhalitive barite and barite-sulphide deposits, Gataga district, northeastern British Columbia. Exploration and Mining Geology Vol. 1 pp. 1-20.

Wells, G. S. 1992: Soil Geochemical Assessment Report, Pie claims (NTS 94F/6E, 7W)

7. STATEMENT OF QUALIFICATIONS

I, Gary S. Wells, hereby certify that:

1. I hold an Honours Bachelor of Science degree in combined geology and chemistry (1975) from Carleton University, Ottawa, Ontario and a Ph.D degree in geology (1980) from Queen's University, Kingston, Ontario.

2. I am an associate member of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.

3. I have practised my profession in exploration continuously since graduation in 1980.

4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.

Date: October 15, 1992

Gary S. Wells P.Geo.
Vancouver, B. C.

Appendix I

Sample Preparation and Analytical Procedures

iPL
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 Soil or Silt

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

(b) Driad samples are passed through an 80 mesh sieve. The minus 80 mesh fraction is transferred to a new bag for subsequent analyses. The plus 80 mesh fraction is discarded unless otherwise instructed.

(c) If an insufficient amount of sample is less than 80 Mesh, the entire sample is passed through a 35 Mesh screen. The -35 Fraction is then pulverized and used as the portion for analyses.

QUALITY CONTROL

Cross contamination is minimized by constant cleaning of preparation equipment with high velocity compressed air. 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 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, K, La, Mg, Na, Sc, Sn, Sr, Th, Ti, W and Zr.

QUALITY CONTROL

The machine is first calibrated using six known standards and a blank. The test samples are then run in batches.

A sample batch consists of 38 or less samples. Two tubes are placed before a set. These are an Inhouse standard and an acid blank, which are both digested with the samples. A known standard with characteristics best matching the samples is chosen and placed after every fifteenth sample. After every 38th sample (not including standards), two samples, chosen at random, are reweighed and analysed. At the end of a batch, the standard and blank used at the beginning is rerun. The readings for these knowns are compared with the pre-rack knowns to detect any calibration drift.

Appendix II

Analytical Certificates

INTERNATIONAL PLASMA LABORATORY LTD.

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

CERTIFICATE OF ANALYSIS

iPL . G2701

Metall Mining Inc.

Out: Jul 29, 1993 Project: 677
In : Jul 27, 1993 Shipper: Gary Wells
PO#: Shipment: ID=C034201
Msg: ICP(MuAc)08
Msg:

68 Samples

	0= Rock	68= Soil	0= Core	0=RC Ct	0= Pulp	0=Other
Raw Storage:	--	00Mon/Dis	--	--	--	--
Pulp Storage:	--	12Mon/Dis	--	--	--	--

[031213:02:47:39072993]
Mon=Month Dis=Discard
Rtn=Return Arc=Archive

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1 Metall Mining Inc.					
311 Water Street, 3rd Floor	1	2	2	2	1
Vancouver	DL	3D	5D	BT	BL
BC V6B 1B8	0	0	0	1	0
ATT: Gary Wells	Ph:604/681-3771				
	Fx:604/681-3360				

Analytical Summary

##	Code	Method	Title	Limit Low	Limit High	Units	Description	Element	##
01	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	01
02	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	02
03	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	03
04	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	04
05	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	05
06	704P	ICP	Ba	2	9999	ppm	Ba ICP	Barium	06
07	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	07
08	712P	ICP	Fe	0.01	99.99	%	Fe ICP	Iron	08

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No)
DL=DownLoad 3D=3-1/2 Disk 5D=5-1/4 Disk BT=BBS Type BL=BBS(1=Yes 0=No)

Totals: 2=Copy 2=Invoice 0=3-1/2 Disk 0=5-1/4 Disk

INTERNATIONAL PLASMA LABORATORY LTD

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

CERTIFICATE OF ANALYSIS
iPL 93G0602

Client: Metall Mining Inc. | iPL: 93G0602 M | Out: Jul 08, 1993 | Page 1 of 5 | Section 1 of 1
Project: 677 193 Soil | In: Jul 06, 1993 | Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
CL 42+00N	0+00E	1.4	31	79	834	7.0	2333	557	2.74
CL 42+00N	0+25E	0.4	23	31	302	0.4	3190	93	2.65
CL 42+00N	0+50E	0.9	33	50	206	0.9	6694	461	2.49
CL 42+00N	0+75E	0.5	30	36	380	1.7	3096	175	2.04
CL 42+00N	1+00E	1.2	28	45	354	1.6	5760	463	2.50
CL 42+00N	1+25E	0.5	37	35	327	0.8	5485	269	3.13
CL 42+00N	1+50E	0.7	21	49	285	1.1	3840	882	2.94
CL 42+00N	1+75E	0.5	13	43	379	2.4	3780	1254	2.62
CL 42+00N	2+00E	0.3	37	18	392	4.7	1612	337	1.86
CL 42+00N	2+25E	0.3	19	33	344	1.4	3238	273	2.27
CL 42+00N	2+50E	0.4	23	37	207	<0.1	3064	133	2.75
CL 42+00N	2+75E	0.5	30	31	256	0.1	4146	289	3.42
CL 42+00N	3+00E	0.6	20	37	131	<0.1	2059	60	1.66
CL 42+00N	3+25E	0.3	20	37	206	0.1	2559	90	2.31
CL 42+00N	3+50E	0.3	21	37	211	<0.1	2604	113	2.39
CL 42+00N	3+75E	0.3	22	31	244	<0.1	1997	80	2.18
CL 42+00N	4+00E	0.6	23	36	92	0.1	1995	34	3.33
CL 44+00N	0+25W	0.9	37	39	110	0.3	2279	263	2.32
CL 44+00N	0+50W	0.8	34	49	179	0.9	8730	384	2.99
CL 44+00N	0+75W	0.9	32	49	173	1.0	5236	420	2.56
CL 44+00N	1+00W	1.5	45	63	286	1.8	4497	559	2.52
CL 44+00N	1+25W	1.5	26	61	214	0.2	1542	609	2.85
CL 44+00N	1+50W	1.5	53	56	596	2.4	2128	630	2.58
CL 44+00N	1+75W	1.6	33	51	319	0.7	1817	528	2.76
CL 44+00N	2+00W	0.2	45	127	159	<0.1	1366	298	4.83
CL 44+00N	2+25W	0.4	55	67	168	<0.1	2539	619	3.54
CL 44+00N	2+50W	0.7	34	44	97	0.2	1998	1018	2.48
CL 44+00N	2+75W	1.1	33	46	91	<0.1	2183	680	2.68
CL 44+00N	3+00W	1.2	27	66	173	0.5	1798	1035	2.41
CL 44+00N	3+25W	0.9	31	73	264	2.9	2281	1536	3.38
CL 44+00N	3+50W	0.6	34	54	134	1.0	2067	1050	2.72
CL 44+00N	3+75W	0.9	27	48	111	0.9	1606	1003	2.47
CL 44+00N	4+00W	0.2	26	46	113	0.2	1965	870	2.46
CL 44+00N	4+25W	0.3	36	49	60	<0.1	1534	187	3.26
CL 44+00N	4+50W	0.6	37	40	67	0.2	2133	202	2.74
CL 44+00N	4+75W	0.2	30	30	109	<0.1	1033	61	2.19
CL 44+00N	5+00W	<0.1	23	18	138	0.1	604	30	1.41
CL 44+00N	5+25W	<0.1	24	28	90	<0.1	885	86	2.27
CL 44+00N	5+50W	<0.1	34	27	101	<0.1	840	82	2.61
CL 44+00N	5+75W	2.8	44	62	52	0.1	1445	362	3.06
CL 44+00N	6+00W	1.1	37	59	35	<0.1	1488	644	3.47
CL 44+00N	6+25W	0.8	32	58	42	<0.1	1654	749	4.08
CL 44+00N	6+50W	0.5	28	45	32	<0.1	1455	572	3.77
CL 44+00N	6+75W	0.5	39	48	105	<0.1	2290	426	3.43
CL 44+00N	7+00W	0.7	22	31	263	2.6	1694	1008	1.77
CL 44+00N	7+25W	0.5	22	34	172	0.2	2672	287	2.14
CL 44+00N	7+50W	0.7	29	38	172	0.3	1374	236	2.25
Pie CL 98+00N	1+25W	0.4	34	34	203	1.0	1416	139	1.80
Pie CL 98+00N	1+50W	0.3	22	27	249	0.4	1032	99	1.92
Pie CL 98+00N	1+75W	0.4	23	25	171	0.8	1034	105	1.54
Pie CL 98+00N	2+00W	0.2	20	36	159	<0.1	1252	59	1.72
Pie CL 98+00N	2+25W	0.1	13	30	114	<0.1	1307	53	1.37
Pie CL 98+00N	2+50W	0.6	19	25	178	<0.1	2749	47	1.67
Pie CL 98+00N	2+75W	0.3	11	18	62	<0.1	1259	42	0.99
Pie CL 98+00N	3+00W	0.1	12	19	74	<0.1	1677	52	1.03
Pie CL 98+00N	3+25W	0.3	14	25	92	<0.1	1738	68	1.38
Pie CL 98+00N	3+50W	0.2	16	28	131	<0.1	1994	67	1.51
Pie CL 98+00N	3+75W	0.2	20	35	167	<0.1	2585	48	2.01
Pie CL 98+00N	4+00W	0.6	26	39	207	<0.1	3122	43	2.47
Pie CL 98+00N	4+25W	0.5	23	35	266	<0.1	2755	341	4.18
Pie CL 98+00N	4+50W	0.9	54	33	288	<0.1	3704	85	4.40
Pie CL 98+00N	4+75W	0.8	24	28	73	<0.1	3084	91	1.86
Pie CL 98+00N	5+00W	0.6	26	26	108	<0.1	2721	53	1.54
Pie CL 98+00N	5+25W	0.6	30	35	109	<0.1	3983	40	3.00
Pie CL 98+00N	5+50W	0.3	24	33	109	<0.1	4157	58	1.85
Pie CL 98+00N	5+75W	0.1	16	20	56	<0.1	3407	49	0.98
Pie CL 98+00N	6+00W	0.5	18	33	75	<0.1	4014	51	1.69
Pie CL100+00N	0+75W	0.4	20	55	277	<0.1	862	69	2.36
Pie CL100+00N	1+25W	0.5	20	38	130	0.6	942	89	1.91
Pie CL100+00N	1+50W	0.6	18	40	126	<0.1	1298	88	1.83
Pie CL100+00N	1+75W	0.6	16	47	108	<0.1	1076	71	1.70
Pie CL100+00N	2+00W	0.3	14	42	125	0.1	1244	164	1.89
Pie CL100+00N	2+25W	0.4	22	31	170	<0.1	3989	30	2.74
Pie CL100+00N	2+50W	0.4	21	25	167	2.3	2548	68	1.82
Pie CL100+00N	2+75W	0.5	24	35	289	<0.1	3137	48	2.37
Pie CL100+00N	3+00W	0.7	23	34	230	<0.1	2100	97	2.64
Pie CL100+00N	3+25W	0.6	21	39	160	<0.1	2263	62	2.40
Pie CL100+00N	3+50W	0.5	24	40	202	<0.1	2612	69	2.42
Min Limit		0.1	1	2	1	0.1	2	1	0.01
Max Reported*		99.9	20000	20000	20000	99.9	9999	9999	99.99
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL G0602

Client: Metall Mining Inc. | iPL: 93G0602 M | Out: Jul 08, 1993 | Page 3 of 5 | Section 1 of 1
Project: 677 193 Soil | In: Jul 06, 1993 | Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Pie CL100+00N	3+75W	S	0.4	27	28	176	<0.1	2459	61	1.96
Pie CL100+00N	4+00W	S	0.2	15	20	87	<0.1	1853	76	1.27
Pie CL100+00N	4+25W	S	0.6	26	46	166	<0.1	4287	42	2.57
Pie CL100+00N	4+50W	S	0.3	13	19	62	<0.1	2456	50	1.06
Pie CL100+00N	4+75W	S	0.4	34	36	157	<0.1	5871	196	3.22
Pie CL100+00N	5+00W	S	0.5	36	36	141	<0.1	5839	140	2.99
Pie CL100+00N	5+25W	S	0.4	43	39	170	<0.1	7116	151	3.44
Pie CL100+00N	5+50W	S	0.2	60	36	317	<0.1	8411	280	4.59
Pie CL102+00N	0+00W	S	0.4	17	77	717	4.2	1429	586	2.02
Pie CL102+00N	0+25W	S	0.3	17	62	206	2.0	1157	138	1.69
Pie CL102+00N	1+50W	S	0.3	23	30	237	0.5	1057	90	1.78
Pie CL102+00N	1+75W	S	0.4	16	35	120	0.2	1101	103	1.32
Pie CL102+00N	2+00W	S	0.9	25	74	201	0.2	1493	76	2.57
Pie CL102+00N	2+25W	S	0.5	13	37	141	0.7	1229	79	1.45
Pie CL102+00N	2+50W	S	0.6	26	32	220	1.5	4004	50	1.79
Pie CL102+00N	2+75W	S	0.3	29	31	208	0.2	1597	69	1.84
Pie CL102+00N	3+00W	S	0.3	19	26	204	0.1	1797	66	1.91
Pie CL102+00N	3+25W	S	0.5	22	31	233	<0.1	2209	85	2.39
Pie CL102+00N	3+50W	S	0.4	23	36	270	2.4	2127	118	2.82
Pie CL102+00N	3+75W	S	0.6	19	27	174	<0.1	1836	63	1.84
Pie CL102+00N	4+00W	S	0.3	18	28	188	<0.1	2012	41	1.79
Pie CL102+00N	4+25W	S	0.5	15	29	166	<0.1	2232	39	1.45
Pie CL102+00N	4+50W	S	0.5	20	25	157	<0.1	1932	45	1.67
Pie CL102+00N	4+75W	S	0.5	20	29	196	<0.1	2223	69	1.93
Pie CL102+00N	5+00W	S	0.6	19	35	153	<0.1	1889	107	2.29
Pie CL102+00N	5+25W	S	0.3	16	26	98	<0.1	2604	50	1.33
Pie CL102+00N	5+50W	S	0.9	33	41	146	<0.1	5761	77	2.91
Pie CL102+00N	5+75W	S	0.5	25	34	98	<0.1	5109	86	2.09
Pie CL102+00N	6+00W	S	0.5	71	33	212	<0.1	5268	315	3.57
Pie CL102+00N	6+25W	S	1.7	35	36	125	<0.1	3662	53	4.41
Pie CL102+00N	6+75W	S	1.2	93	33	233	<0.1	6433	173	12.89
Pie CL104+00N	0+00W	S	0.2	7	42	352	<0.1	873	104	1.79
Pie CL104+00N	0+25W	S	0.2	12	64	598	5.8	1400	342	1.64
Pie CL104+00N	0+50W	S	0.1	8	35	194	0.2	893	72	1.30
Pie CL104+00N	0+75W	S	0.5	13	44	166	0.8	1487	155	1.46
Pie CL104+00N	1+00W	S	0.1	9	44	125	<0.1	1071	150	1.41
Pie CL104+00N	1+25W	S	<0.1	12	41	208	<0.1	929	73	1.97
Pie CL104+00N	1+50W	S	0.5	18	29	150	<0.1	735	90	1.82
Pie CL104+00N	1+75W	S	0.9	20	36	86	<0.1	1331	61	1.39
Pie CL104+00N	2+00W	S	0.5	16	28	110	0.8	1360	88	1.22
Pie CL104+00N	2+25W	S	0.4	18	37	204	<0.1	1164	88	2.04
Pie CL104+00N	2+50W	S	0.3	18	39	132	1.3	1318	52	1.50
Pie CL104+00N	2+75W	S	1.0	33	28	422	1.5	3925	53	3.02
Pie CL104+00N	3+00W	S	0.4	23	32	150	1.7	2144	34	1.47
Pie CL104+00N	3+25W	S	0.6	26	41	276	<0.1	2105	56	2.23
Pie CL104+00N	3+50W	S	0.5	25	32	392	<0.1	2118	51	2.30
Pie CL104+00N	3+75W	S	1.4	40	35	465	4.0	5808	200	2.80
Pie CL104+00N	4+00W	S	0.7	22	31	312	<0.1	2083	51	2.29
Pie CL104+00N	4+25W	S	0.7	18	30	267	<0.1	2056	68	2.20
Pie CL104+00N	4+50W	S	0.5	17	27	155	<0.1	1944	45	1.61
Pie CL104+00N	4+75W	S	1.6	19	31	192	<0.1	1976	50	1.77
Pie CL104+00N	5+00W	S	0.7	20	31	228	<0.1	2193	50	1.97
Pie CL104+00N	5+25W	S	0.7	35	32	266	<0.1	3092	47	2.99
Pie CL104+00N	5+50W	S	0.9	28	32	258	0.1	8426	85	2.68
Pie CL104+00N	5+75W	S	0.6	22	24	73	<0.1	7673	56	2.24
Pie CL104+00N	6+25W	S	0.5	81	26	281	<0.1	3681	1503	12.70
Pie CL104+00N	6+50W	S	0.6	25	33	96	<0.1	4316	51	2.76
Pie CL104+00N	6+75W	S	<0.1	51	25	369	<0.1	3637	1268	10.72
Pie CL104+00N	7+00W	S	0.7	88	35	286	<0.1	5368	465	7.58
Pie CL104+00N	7+25W	S	0.5	79	36	205	<0.1	5784	103	7.40
Pie CL104+00N	7+50W	S	0.2	73	39	284	<0.1	6688	104	6.65
Pie CL106+00N	0+50W	S	0.7	25	50	101	<0.1	1473	36	5.15
Pie CL106+00N	0+75W	S	0.9	14	36	99	<0.1	1031	57	1.45
Pie CL106+00N	1+00W	S	0.4	20	42	203	0.7	1157	53	1.69
Pie CL106+00N	1+25W	S	0.1	10	43	154	<0.1	1117	64	1.35
Pie CL106+00N	1+50W	S	0.2	11	33	127	<0.1	697	74	1.40
Pie CL106+00N	1+75W	S	0.4	23	55	265	1.6	1018	75	1.83
Pie CL106+00N	2+00W	S	0.4	19	30	103	0.2	820	35	1.22
Pie CL106+00N	2+25W	S	0.3	13	51	155	<0.1	1108	109	1.89
Pie CL106+00N	2+50W	S	0.4	14	29	125	0.2	1009	40	1.28
Pie CL106+00N	2+75W	S	<0.1	11	26	128	<0.1	833	39	1.23
Pie CL106+00N	3+00W	S	0.4	12	38	149	0.2	1601	70	1.40
Pie CL106+00N	3+25W	S	0.5	20	33	513	0.7	1349	71	3.26
Pie CL106+00N	3+50W	S	0.7	35	35	403	3.7	3008	72	2.60
Pie CL106+00N	3+75W	S	1.0	23	46	364	<0.1	2936	42	2.97
Pie CL106+00N	4+00W	S	0.9	22	30	261	<0.1	2339	47	2.08
Pie CL106+00N	4+25W	S	0.5	17	25	188	<0.1	1685	40	1.54
Pie CL106+00N	4+50W	S	0.7	20	34	232	<0.1	2131	53	2.09
Min Limit			0.1	1	2	1	0.1	2	1	0.01
Max Reported*			99.9	20000	20000	20000	99.9	9999	9999	99.99
Method			ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
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Client: Metall Mining Inc. | iPL: 93G0602 M | Out: Jul 08, 1993 | Page 5 of 5 | Section 1 of 1
Project: 677 193 Soil | In: Jul 06, 1993 | Certified BC Assayer: David Chiu

Sample Name			Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Pie CL106+00N	4+75W	$	0.4	25	27	226	<0.1	2542	56	1.80
Pie CL106+00N	5+00W	$	0.2	21	22	216	<0.1	2287	33	1.48
Pie CL106+00N	5+25W	$	0.3	21	32	235	<0.1	2916	45	1.93
Pie CL106+00N	5+50W	$	0.3	16	36	149	<0.1	2638	43	1.66
Pie CL106+00N	5+75W	$	0.8	26	33	632	6.0	3988	104	2.04
Pie CL108+00N	0+75W	$	0.5	125	90	1375	46.1	1596	393	1.82
Pie CL108+00N	1+00W	$	0.2	12	65	423	0.2	927	120	2.59
Pie CL108+00N	1+25W	$	0.2	7	20	58	<0.1	548	30	0.89
Pie CL108+00N	1+50W	$	0.1	9	28	111	<0.1	619	79	1.28
Pie CL108+00N	1+75W	$	0.3	10	21	77	<0.1	549	38	1.11
Pie CL108+00N	2+00W	$	0.6	15	39	120	<0.1	820	45	1.47
Pie CL108+00N	2+25W	$	0.5	19	56	211	<0.1	941	76	2.16
Pie CL108+00N	2+50W	$	0.3	12	32	138	<0.1	986	66	1.63
Pie CL108+00N	2+75W	$	0.6	15	49	174	<0.1	1075	55	1.74
Pie CL108+00N	3+00W	$	0.6	25	45	1105	14.6	2378	420	1.77
Pie CL108+00N	3+25W	$	1.1	42	38	1916	24.2	2274	234	1.72
Pie CL108+00N	3+50W	$	0.8	28	26	1895	24.6	2834	179	1.77
Pie CL108+00N	3+75W	$	0.3	25	26	501	3.2	6863	85	1.62
Pie CL108+00N	4+00W	$	0.5	32	24	448	5.5	6530	79	1.56
Pie CL108+00N	4+25W	$	0.4	22	27	405	2.0	4969	73	1.90
Pie CL108+00N	4+50W	$	0.5	26	35	401	2.8	4184	54	2.03
Pie CL110+00N	0+75W	$	<0.1	8	61	327	0.4	717	68	1.65
Pie CL110+00N	1+00W	$	<0.1	10	38	296	1.5	1016	60	1.22
Pie CL110+00N	1+25W	$	<0.1	11	31	118	<0.1	623	48	1.33
Pie CL110+00N	1+50W	$	<0.1	11	26	85	0.4	766	42	1.03
Pie CL110+00N	1+75W	$	0.2	14	32	146	<0.1	573	41	1.42
Pie CL110+00N	2+00W	$	0.1	18	48	197	0.2	1009	57	1.81
Pie CL110+00N	2+25W	$	0.3	11	26	84	<0.1	955	35	0.93
Pie CL110+00N	2+50W	$	0.2	13	45	167	<0.1	1469	35	1.44
Pie CL110+00N	2+75W	$	0.1	13	39	243	0.3	1919	42	1.54
Pie CL110+00N	3+00W	$	0.1	15	39	289	5.1	1893	48	1.39
Pie CL110+00N	3+25W	$	0.1	18	27	223	2.7	2028	164	1.15
Pie CL110+00N	3+50W	$	0.2	14	25	189	1.6	4162	26	1.25
Pie CL110+00N	3+75W	$	0.4	17	32	252	1.5	3073	42	1.41
Pie CL110+00N	4+00W	$	0.2	15	24	203	0.4	4672	28	1.33
Pie CL110+00N	4+25W	$	1.1	28	29	541	6.1	4642	203	1.81
Pie CL110+00N	4+50W	$	1.0	34	28	546	5.4	3776	273	2.37

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	99.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	99.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL [illegible]G1301

Client: Metall Mining Inc. | iPL: 93G1301 M | Out: Jul 15, 1993 | Page 1 of 6 | Section 1 of 1
Project: 677 231 Soil | In: Jul 13, 1993 | Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Pie D L 4+00N	0+00E	0.6	16	25	73	<0.1	1331	28	1.10
Pie D L 4+00N	0+25E	0.4	23	39	97	<0.1	1632	60	1.52
Pie D L 4+00N	0+50E	1.2	29	46	122	<0.1	3558	43	1.46
Pie D L 4+00N	0+75E	0.7	39	43	121	<0.1	2567	45	1.86
Pie D L 4+00N	1+00E	0.6	43	68	175	<0.1	2026	66	2.93
Pie D L 4+00N	1+25E	0.5	27	46	117	<0.1	1628	47	1.88
Pie D L 4+00N	1+50E	0.4	20	38	143	<0.1	1777	35	1.52
Pie D L 4+00N	1+75E	0.7	19	45	168	<0.1	2227	34	1.81
Pie D L 4+00N	2+00E	1.0	33	39	456	0.9	5268	144	3.15
Pie D L 4+00N	2+25E	1.2	31	42	493	1.5	5184	330	2.71
Pie D L 4+00N	3+00E	0.5	11	21	85	<0.1	1819	31	1.27
Pie D L 4+00N	3+25E	1.0	28	26	224	<0.1	3229	127	3.99
Pie D L 4+00N	3+50E	0.2	20	20	150	<0.1	3217	58	2.15
Pie D L 4+00N	3+75E	0.3	42	36	259	<0.1	4308	314	4.14
Pie D L 4+00N	4+00E	0.6	34	31	202	<0.1	3207	110	3.44
Pie D L 6+00N	0+00E	1.1	11	27	93	<0.1	3255	33	1.23
Pie D L 6+00N	0+25E	2.1	14	34	97	<0.1	4580	37	1.27
Pie D L 6+00N	0+50E	0.8	13	43	81	<0.1	5516	27	1.13
Pie D L 6+00N	0+75E	0.3	9	36	185	<0.1	1.1%	36	1.31
Pie D L 6+00N	1+00E	0.1	11	37	129	<0.1	5448	43	1.46
Pie D L 6+00N	1+25E	0.7	20	72	140	0.4	2824	69	2.48
Pie D L 6+00N	1+50E	0.3	13	33	140	<0.1	2201	69	1.68
Pie D L 6+00N	1+75E	0.1	18	57	144	<0.1	3138	46	1.86
Pie D L 6+00N	2+00E	0.3	7	17	80	<0.1	2515	25	1.11
Pie D L 6+00N	2+25E	0.2	14	24	144	<0.1	2724	37	1.39
Pie D L 6+00N	2+50E	0.1	15	22	143	<0.1	3142	39	1.56
Pie D L 6+00N	2+75E	0.7	17	25	103	<0.1	2783	61	1.61
Pie D L 6+00N	3+00E	0.1	40	33	229	<0.1	3369	375	5.02
Pie D L 6+00N	3+25E	0.3	26	42	113	<0.1	3010	76	2.51
Pie D L 6+00N	3+50E	<0.1	24	46	157	<0.1	2311	203	3.42
Pie D L 6+00N	3+75E	<0.1	27	32	169	<0.1	1886	268	4.40
Pie D L 6+00N	4+00E	0.1	36	37	213	<0.1	3278	272	5.10
Pie D L 8+00N	0+00E	0.5	35	49	402	<0.1	4766	142	2.91
Pie D L 8+00N	0+25E	0.2	24	34	236	<0.1	3432	73	2.74
Pie D L 8+00N	0+50E	0.2	14	30	119	<0.1	3573	99	1.77
Pie D L 8+00N	0+75E	0.3	23	31	269	<0.1	3056	75	2.20
Pie D L 8+00N	1+00E	0.2	58	20	284	0.3	7011	72	3.05
Pie D L 8+00N	1+25E	0.4	37	40	447	<0.1	4318	106	2.94
Pie D L 8+00N	1+50E	0.5	35	38	326	1.0	4724	169	2.55
Pie D L 8+00N	1+75E	0.2	19	34	241	<0.1	2931	73	2.20
Pie D L 8+00N	2+00E	0.4	11	26	98	<0.1	5164	36	1.19
Pie D L 8+00N	2+25E	0.4	18	64	208	0.2	2726	312	2.07
Pie D L 8+00N	2+50E	0.8	17	30	180	<0.1	3727	50	1.97
Pie D L 8+00N	2+75E	0.5	24	40	275	0.1	3230	63	2.35
Pie D L 8+00N	3+00E	0.4	26	33	375	<0.1	4804	69	2.64
Pie D L 8+00N	3+25E	0.5	23	34	144	<0.1	3750	49	2.09
Pie D L 8+00N	3+50E	0.1	21	35	105	<0.1	2654	88	2.18
Pie D L 8+00N	3+75E	0.2	25	35	121	<0.1	2633	138	2.77
Pie D L 8+00N	4+00E	0.2	20	29	110	<0.1	2626	132	2.52
Pie D L 8+00N	0+25W	0.3	25	31	200	<0.1	4255	81	2.62
Pie D L 8+00N	0+50W	0.7	33	49	340	<0.1	4880	85	3.52
Pie D L 8+00N	0+75W	0.5	31	46	270	<0.1	5203	178	3.07
Pie D L 8+00N	1+00W	0.9	23	32	141	<0.1	4341	59	2.20
Pie D L10+00N	0+00E	0.5	36	41	349	<0.1	4108	137	4.36
Pie D L10+00N	0+25E	1.0	36	54	302	<0.1	5377	84	4.01
Pie D L10+00N	0+50E	1.1	32	40	277	<0.1	4370	64	3.54
Pie D L10+00N	0+75E	2.2	55	39	557	0.5	4975	186	4.46
Pie D L10+00N	1+00E	0.7	43	35	546	3.3	5007	111	2.89
Pie D L10+00N	1+25E	0.7	36	36	351	0.9	4822	106	2.94
Pie D L10+00N	1+50E	0.3	26	37	314	0.4	4474	36	2.42
Pie D L10+00N	1+75E	1.6	23	26	263	0.5	3236	40	2.26
Pie D L10+00N	2+00E	0.4	25	24	295	0.1	3112	49	2.39
Pie D L10+00N	2+25E	1.1	22	25	246	<0.1	3184	38	1.94
Pie D L10+00N	2+50E	0.5	19	34	231	<0.1	5068	32	2.21
Pie D L10+00N	2+75E	<0.1	19	28	205	<0.1	3052	66	2.03
Pie D L10+00N	3+00E	0.2	21	38	283	<0.1	4334	51	2.09
Pie D L10+00N	3+25E	0.2	14	33	151	<0.1	3271	34	1.53
Pie D L10+00N	3+50E	0.3	16	24	139	<0.1	2888	72	1.91
Pie D L10+00N	3+75E	0.7	25	23	296	0.7	4091	59	2.01
Pie D L10+00N	4+00E	0.3	13	42	211	<0.1	6276	32	1.66
Pie D L10+00N	0+25W	0.2	41	40	219	<0.1	5373	175	4.40
Pie D L10+00N	0+50W	1.0	20	45	108	<0.1	3666	40	3.41
Pie D L10+00N	0+75W	1.7	78	30	149	<0.1	1766	66	4.07
Pie D L10+00N	1+00W	0.7	55	44	122	<0.1	6145	102	2.77
Pie D L10+00N	1+25W	0.9	42	40	174	0.8	4464	66	3.13
Pie D L10+00N	1+50W	0.7	37	44	141	<0.1	5938	43	2.85
Pie D L21+00N	0+00E	0.9	38	37	302	1.3	5843	139	2.76
Pie D L21+00N	0+25E	0.6	25	34	179	0.9	6328	122	1.75
Min Limit		0.1	1	2	1	0.1	2	1	0.01
Max Reported*		99.9	20000	20000	20000	99.9	9999	9999	99.99
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G1301

Client: Metall Mining Inc. | iPL: 93G1301 M | Out: Jul 15, 1993 | Page 3 of 6 | Section 1 of 1
Project: 677 231 Soil | In: Jul 13, 1993 | Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Pie D L21+00N	0+50E	0.5	30	37	242	0.4	7158	108	2.54
Pie D L21+00N	0+75E	0.5	31	49	189	0.3	6615	100	2.69
Pie D L21+00N	1+00E	0.2	18	42	91	<0.1	6525	61	1.61
Pie D L21+00N	1+50E	0.2	44	22	337	2.0	5114	223	4.76
Pie D L21+00N	1+75E	0.7	65	41	401	1.4	6751	566	5.21
Pie D L21+00N	2+00E	0.2	48	33	262	<0.1	6165	370	4.60
Pie D L21+00N	2+25E	0.1	50	39	312	<0.1	4623	350	4.91
Pie D L21+00N	2+50E	<0.1	28	40	179	<0.1	3801	685	3.23
Pie D L21+00N	2+75E	<0.1	35	36	279	<0.1	3062	193	3.66
Pie D L21+00N	3+00E	<0.1	31	35	249	0.5	4208	224	3.20
Pie D L22+00N	0+00E	1.1	25	113	123	<0.1	4442	27	2.26
Pie D L22+00N	0+25E	0.4	17	43	87	<0.1	5667	27	1.56
Pie D L22+00N	0+50E	0.1	32	37	220	0.5	5644	184	3.44
Pie D L22+00N	0+75E	<0.1	24	37	130	<0.1	5524	133	2.97
Pie D L22+00N	1+00E	<0.1	48	82	401	1.6	6928	166	5.44
Pie D L22+00N	1+25E	0.1	46	40	269	<0.1	6032	627	5.90
Pie D L22+00N	1+50E	<0.1	26	39	180	<0.1	3730	133	3.13
Pie D L22+00N	1+75E	<0.1	40	59	480	<0.1	3694	1425	5.70
Pie D L22+00N	2+00E	<0.1	18	33	146	<0.1	2032	95	2.20
Pie D L22+00N	2+25E	<0.1	47	42	275	<0.1	3431	334	4.65
Pie D L22+00N	2+50E	0.9	56	52	399	<0.1	3915	350	4.94
Pie D L22+00N	2+75E	0.4	12	49	70	<0.1	3453	21	1.38
Pie D L22+00N	3+00E	<0.1	8	21	46	<0.1	4283	17	0.80
Pie D L22+00N	3+25E	<0.1	6	23	62	<0.1	3824	20	0.74
Pie D L22+00N	3+50E	0.3	18	28	135	<0.1	2377	78	1.90
Pie D L22+00N	3+75E	0.9	11	28	126	<0.1	1866	91	2.50
Pie D L22+00N	4+00E	<0.1	24	31	236	<0.1	2618	52	2.08
Pie D L24+00N	0+50E	0.2	20	37	147	0.2	7229	64	1.53
Pie D L24+00N	0+75E	0.1	17	34	109	<0.1	4844	81	1.49
Pie D L24+00N	1+00E	0.3	21	36	189	<0.1	2591	65	2.40
Pie D L24+00N	1+25E	0.2	7	24	47	<0.1	3706	36	0.96
Pie D L24+00N	1+50E	<0.1	42	43	305	<0.1	6848	232	3.61
Pie D L24+00N	1+75E	<0.1	28	41	176	<0.1	5767	149	3.09
Pie D L24+00N	2+00E	<0.1	8	24	60	<0.1	3416	37	1.01
Pie D L24+00N	2+25E	0.1	19	31	180	<0.1	4286	81	2.10
Pie D L24+00N	2+50E	0.1	34	38	229	<0.1	2884	640	5.21
Pie D L24+00N	2+75E	0.1	15	32	142	<0.1	1800	49	1.68
Pie D L24+00N	3+00E	0.4	20	35	190	<0.1	2788	51	1.79
Pie D L24+00N	3+25E	0.1	10	33	123	<0.1	5962	21	1.10
Pie D L24+00N	3+50E	0.3	19	38	221	<0.1	2828	60	2.01
Pie D L24+00N	3+75E	0.2	16	24	231	<0.1	3471	43	1.57
Pie D L24+00N	4+00E	<0.1	23	27	396	0.2	3365	73	3.02
CR L42+00N	0+25W	0.2	90	48	240	1.2	1583	153	2.41
CR L42+00N	0+50W	0.6	46	38	247	1.5	1720	245	2.58
CR L42+00N	0+75W	0.8	99	53	274	1.4	1609	209	3.08
CR L42+00N	1+00W	<0.1	26	32	187	0.5	2261	94	2.24
CR L42+00N	1+25W	0.9	41	61	234	1.2	7626	457	2.75
CR L42+00N	1+50W	0.6	30	39	279	1.8	2302	235	2.53
CR L42+00N	1+75W	0.4	30	32	194	1.1	2295	234	2.34
CR L42+00N	2+00W	0.8	38	50	156	1.9	3335	900	2.69
CR L42+00N	2+25W	1.9	83	100	489	3.2	4833	316	4.06
CR L42+00N	2+50W	0.7	45	67	359	0.8	8822	239	3.60
CR L42+00N	2+75W	<0.1	16	36	112	0.2	3038	167	2.16
CR L42+00N	3+00W	0.6	37	37	388	2.2	1.4%	181	2.36
CR L42+00N	3+25W	0.5	33	38	317	2.1	1.8%	175	2.62
CR L42+00N	3+50W	1.1	36	32	423	2.6	3.6%	145	2.59
CR L42+00N	3+75W	0.8	38	29	275	1.4	1.7%	134	2.60
CR L42+00N	4+00W	0.6	37	37	319	1.2	6899	192	2.80
CR L42+00N	4+25W	1.3	37	47	308	1.7	2695	488	2.81
CR L42+00N	4+50W	0.9	32	43	207	1.0	4031	253	2.62
CR L42+00N	4+75W	0.4	30	41	139	0.7	1267	530	2.20
CR L42+00N	5+00W	0.5	23	41	219	1.0	1518	433	2.51
CR L42+00N	5+25W	0.9	36	46	123	0.5	1722	354	2.56
CR L42+00N	5+50W	<0.1	15	35	220	0.3	1626	180	1.93
CR L42+00N	5+75W	0.8	30	56	187	0.5	1820	454	2.84
CR L42+00N	6+00W	1.1	39	51	85	0.2	1820	256	2.55
CR L42+00N	6+25W	0.9	29	42	116	<0.1	1566	337	2.48
CR L42+00N	6+50W	0.2	17	46	140	0.5	2309	282	2.23
CR L42+00N	6+75W	0.8	51	44	699	7.2	2074	590	2.14
XM L66+00N	1+00W	1.0	76	37	231	1.6	3330	148	4.83
XM L66+00N	1+25W	0.4	13	23	38	<0.1	3727	28	0.78
XM L66+00N	1+50W	0.7	26	37	59	<0.1	2358	29	2.59
XM L66+00N	1+75W	<0.1	20	32	67	<0.1	2748	38	1.87
XM L66+00N	2+25W	0.6	15	34	81	<0.1	2941	50	1.35
XM L66+00N	2+50W	0.1	11	56	115	<0.1	7444	17	1.65
XM L66+00N	2+75W	<0.1	3	50	51	<0.1	7123	16	0.49
XM L66+00N	3+00W	<0.1	13	25	69	<0.1	5637	37	1.01
XM L66+00N	3+25W	<0.1	16	23	111	<0.1	4172	52	2.20
Min Limit		0.1	1	2	1	0.1	2	1	0.01
Max Reported*		99.9	20000	20000	20000	99.9	9999	9999	99.99
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G2701

Client: Metall Mining Inc. | iPL: 93G2701 M | Out: Jul 29, 1993 | Page 1 of 2 | Section 1 of 1
Project: 677 68 Soil | In: Jul 27, 1993 | Certified BC Assayer: David Chiu

Sample Name					Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm	Ba ppm	Mn ppm	Fe %
Akie	L	4+00S	0+00E	S	2.3	8	451	68	<0.1	4621	28	2.50
Akie	L	4+00S	0+25E	S	0.1	<1	71	47	<0.1	4121	31	0.77
Akie	L	4+00S	0+50E	S	0.5	<1	112	26	<0.1	3833	27	0.55
Akie	L	4+00S	0+75E	S	0.1	<1	47	34	<0.1	3542	28	0.60
Akie	L	4+00S	1+00E	S	<0.1	<1	41	28	<0.1	3107	24	0.54
Akie	L	4+00S	1+25E	S	0.2	<1	25	16	<0.1	2153	25	0.37
Akie	L	4+00S	1+50E	S	<0.1	<1	30	14	<0.1	2497	27	0.36
Akie	L	4+00S	1+75E	S	<0.1	<1	27	11	<0.1	2342	21	0.23
Akie	L	4+00S	2+00E	S	<0.1	<1	66	11	<0.1	4964	27	0.32
Akie	L	4+00S	2+25E	S	0.1	<1	44	53	<0.1	3201	30	0.63
Akie	L	4+00S	2+50E	S	2.6	6	154	202	<0.1	5629	37	1.77
Akie	L	4+00S	2+75E	S	0.1	3	33	70	<0.1	4709	32	1.03
Akie	L	4+00S	3+00E	S	<0.1	14	35	157	<0.1	5251	19	1.59
Akie	L	4+00S	3+25E	S	1.4	17	28	89	<0.1	608	64	6.39
Akie	L	4+00S	3+50E	S	0.1	2	42	52	<0.1	4893	35	1.36
Akie	L	4+00S	3+75E	S	<0.1	19	52	75	<0.1	9078	50	3.19
Akie	L	4+00S	4+00E	S	0.1	<1	36	36	<0.1	4445	41	1.25
Akie	L	4+00S	0+25W	S	0.2	<1	77	37	<0.1	3585	47	0.83
Akie	L	4+00S	0+50W	S	0.6	<1	58	24	<0.1	2503	19	0.47
Akie	L	4+00S	0+75W	S	0.5	<1	93	30	<0.1	3581	24	0.59
Akie	L	4+00S	1+00W	S	2.3	<1	47	24	<0.1	3849	16	0.40
Akie	L	6+00S	0+00E	S	4.7	<1	93	32	<0.1	4807	24	0.48
Akie	L	6+00S	0+25E	S	2.1	<1	36	23	<0.1	2408	28	0.46
Akie	L	6+00S	0+50E	S	0.1	<1	26	16	<0.1	1826	24	0.34
Akie	L	6+00S	0+75E	S	3.7	<1	22	24	<0.1	2393	25	0.44
Akie	L	6+00S	1+00E	S	<0.1	<1	25	25	<0.1	2240	32	0.53
Akie	L	6+00S	1+25E	S	<0.1	2	51	25	<0.1	3537	22	1.22
Akie	L	6+00S	1+50E	S	1.1	16	95	101	<0.1	9471	36	2.08
Akie	L	6+00S	1+75E	S	1.2	1	64	55	<0.1	5117	41	1.12
Akie	L	6+00S	2+00E	S	0.1	<1	30	33	<0.1	5473	16	0.78
Akie	L	6+00S	2+25E	S	0.5	27	23	127	<0.1	5869	28	2.71
Akie	L	6+00S	2+50E	S	<0.1	23	39	411	<0.1	5044	122	3.48
Akie	L	6+00S	2+75E	S	<0.1	1	35	59	<0.1	4056	68	1.21
Akie	L	6+00S	3+00E	S	<0.1	3	50	67	<0.1	4228	36	1.39
Akie	L	6+00S	3+25E	S	<0.1	4	43	85	<0.1	5181	29	1.33
Akie	L	6+00S	3+50E	S	<0.1	3	41	76	<0.1	4320	45	1.26
Akie	L	6+00S	3+75E	S	<0.1	3	37	72	<0.1	2699	87	1.86
Akie	L	6+00S	4+00E	S	<0.1	4	38	94	<0.1	2676	76	1.90
Akie	L	6+00S	0+25W	S	1.7	<1	70	24	<0.1	7480	19	0.60
Akie	L	6+00S	0+50W	S	2.6	1	26	66	<0.1	2686	31	0.57
Akie	L	6+00S	0+75W	S	<0.1	<1	27	59	<0.1	2388	20	0.39
Akie	L	6+00S	1+00W	S	0.7	<1	38	45	<0.1	2783	38	0.66
Pie-E	L	20+00S	0+00E	S	1.4	11	30	49	<0.1	2420	36	3.64
Pie-E	L	20+00S	0+25E	S	<0.1	28	43	171	<0.1	3457	81	3.68
Pie-E	L	20+00S	0+50E	S	<0.1	88	29	85	0.1	2453	52	2.80
Pie-E	L	20+00S	0+75E	S	0.8	66	39	114	<0.1	485	76	4.78
Pie-E	L	20+00S	1+00E	S	1.7	26	36	104	<0.1	547	444	4.64
Pie-E	L	20+00S	1+50E	S	1.2	37	36	158	<0.1	2264	103	2.76
Pie-E	L	20+00S	1+75E	S	<0.1	26	38	173	<0.1	3351	216	4.60
Pie-E	L	20+00S	2+00E	S	<0.1	19	33	131	<0.1	2608	137	2.40
Pie-E	L	20+00S	2+25E	S	<0.1	17	38	148	<0.1	2009	190	2.80
Pie-E	L	20+00S	2+50E	S	<0.1	22	35	185	<0.1	2013	225	3.48
Pie-E	L	20+00S	2+75E	S	<0.1	10	27	80	<0.1	1494	54	1.33
Pie-E	L	20+00S	3+00E	S	<0.1	28	42	186	<0.1	2288	194	2.96
Pie-E	L	20+00S	3+25E	S	<0.1	20	36	201	<0.1	1903	140	3.49
Pie-E	L	22+00S	0+25E	S	<0.1	30	39	186	<0.1	3390	299	3.66
Pie-E	L	22+00S	0+50E	S	<0.1	20	100	161	<0.1	3067	75	2.54
Pie-E	L	22+00S	0+75E	S	<0.1	26	47	173	<0.1	2781	924	3.09
Pie-E	L	22+00S	1+00E	S	<0.1	29	45	303	<0.1	2736	340	4.06
Pie-E	L	22+00S	1+25E	S	<0.1	13	27	93	<0.1	1797	132	2.09
Pie-E	L	22+00S	1+50E	S	<0.1	27	57	110	<0.1	3013	55	2.41
Pie-E	L	22+00S	1+75E	S	<0.1	15	39	98	<0.1	3629	86	2.80
Pie-E	L	22+00S	2+00E	S	<0.1	13	35	77	<0.1	4536	54	1.89
Pie-E	L	22+00S	2+25E	S	<0.1	10	38	99	<0.1	4076	299	2.31
Pie-E	L	22+00S	2+50E	S	<0.1	19	44	132	<0.1	2887	112	2.91
Pie-E	L	22+00S	3+00E	S	<0.1	17	62	147	<0.1	3794	44	2.35
Pie-E	L	22+00S	3+25E	S	<0.1	13	36	144	<0.1	3020	71	1.92
Pie-E	L	22+00S	3+50E	S	<0.1	23	45	158	<0.1	2201	86	2.81

	Ag	Cu	Pb	Zn	Cd	Ba	Mn	Fe
Min Limit	0.1	1	2	1	0.1	2	1	0.01
Max Reported*	99.9	20000	20000	20000	99.9	9999	9999	99.99
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

PIE C

PIE 8

PIE 4

PIE 3

PIE 1

PIE 2

PIE 11

Ba

Ba

Limestone

Shale

1500

1600

1700

1800

1900

2000

2100

X Pie Galena Showing

N

ANOMALOUS VALUES

Pb ppm Zn ppm

—— Pb >58 ppm

– – Zn >494 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,977

METALL MINING CORPORATION

MAP No. 5a

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Pb ppm Zn ppm

DATE : OCTOBER 1993

FILE : PIECHEM1

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

SCALE : 1:5,000

0 50 100 150 200 250m

PIE C

PIE 8

PIE 4

PIE 3

PIE 1

PIE 2

PIE 11

Ba

Ba

X Pie Galena Showing

Limestone

Shale

1500

1600

1700

1800

1900

2000

2100

ANOMALOUS VALUES

Cu ppm Fe %

Cu >60 ppm

Fe >4.49 %

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5b

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Cu ppm Fe %

DATE : OCTOBER 1993

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

FILE : PIECHEM1

SCALE : 1:5,000

0 50 100 150 200 250m

PIE C

PIE 8

PIE 4

PIE 3

PIE 1

PIE 2

PIE 11

Ba

Ba

Limestone

Shale

1700

1600

1800

1900

2000

2100

X Pie Galena Showing

N

ANOMALOUS VALUES

Ag ppm Ba ppm

Ag >0.93 ppm

Ba >9141 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5c

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Ag ppm Ba ppm

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA Jay Wells

DATE : OCTOBER 1993

FILE : PIECHEM1

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

SCALE : 1:5,000

0 50 100 150 200 250m

PIE C

PIE 8

PIE 4

PIE 3

PIE 1

PIE 2

PIE 11

Ba

Ba

Limestone

Shale

1700

1800

1900

2000

2100

X Pie Galena Showing

ANOMALOUS VALUES

Cd ppm Mn ppm

Cd >2.4 ppm

Mn >328 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5d

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Cd ppm Mn ppm

DATE : OCTOBER 1993

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

FILE : PIECHEM1

SCALE : 1:5,000

0 50 100 150 200 250m

ANOMALOUS VALUES

Pb ppm Zn ppm

Pb >58 ppm

Zn >494 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5a

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Pb ppm Zn ppm

DATE : OCTOBER 1993

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

FILE : PIECHEM2

SCALE : 1:5,000

0 50 100 150 200 250m

PIE D

PIE 7

PIE 2

PIE 10

PIE E

PIE 6

PIE 5

PIE 99

PIE 100

Ba

Ba

Ba

1300
1400
1200
1200
1300
1400
1500
1600
1700
1600
1700
1800
1900
2000
2100
1600
1500
1400
1200
1300
1200
1800
2000
1900
1800

ANOMALOUS VALUES

Cu ppm Fe %

Cu >60 ppm

Fe >4.49 %

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5b

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Cu ppm Fe %

DATE : OCTOBER 1993	FILE : PIECHEM2
DRAWN BY : GSW/sg	SCALE : 1:5,000
REVISED :	0 50 100 150 200 250m
N.T.S.: 94F/7W, 6E	

PIE D

PIE 1

PIE 2

PIE 7

PIE 10

PIE E

PIE 6

PIE 5

PIE 99

PIE 100

BLO E

BLO W

1000 N

650 N

450 N

2050 S

2000 S

1300

1400

1200

1500

1600

1700

1800

1900

2000

2100

ANOMALOUS VALUES

Ag ppm Ba ppm

Ag >0.93 ppm

Ba >9141 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION	MAP No. 5c
GATAGA PROJECT PIE CLAIMS SOIL GEOCHEMISTRY Ag ppm Ba ppm	
DATE : OCTOBER 1993	FILE : PIECHEM2
DRAWN BY : GSW/sg	SCALE : 1:5,000 0 50 100 150 200 250m
REVISED :	
N.T.S.: 94F/7W, 6E	

PIE D

PIE 1

PIE 2

PIE 7

PIE 10

PIE E

PIE 6

PIE 5

PIE 99

PIE 100

Ba

Ba

Ba

1300

1400

1200

1200

1300

1400

1500

1600

1700

1600

1700

1800

1900

2000

2100

1500

1600

1700

1800

2000

1900

1800

ANOMALOUS VALUES

Cd ppm Mn ppm

Cd >2.4 ppm

Mn >328 ppm

SHEET 1

SHEET 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,077

METALL MINING CORPORATION

MAP No. 5d

GATAGA PROJECT
PIE CLAIMS
SOIL GEOCHEMISTRY
Cd ppm Mn ppm

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA Gary Wells

DATE : OCTOBER 1993

FILE : PIECHEM2

DRAWN BY : GSW/sg

REVISED :

N.T.S.: 94F/7W, 6E

SCALE : 1:5,000

0 50 100 150 200 250m