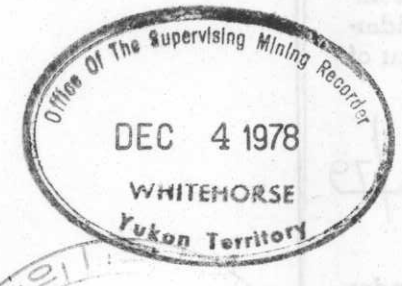
MINING RECORDER

1978 GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT



TITLE	Tay Mountain Property TAY #1-166 Claims
AUTHORS	A.C. Hitchins and R.G. Kidlark
DATE	October, 1978
COMMODITY	Pb-Zn
LOCATION	Anvil Range, Yukon Territory Whitehorse Mining District 62°30'N Latitude 133°58'W Longitude 105 K 5 and 12, 105 L 8
WORK PERIOD	Between June 23 and August 26, 1978

090404

AMAX VANCOUVER OFFICE

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work to the amount of

$28,000.00

D.B. Craig 2 Jan/79

for Chief Geological Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

E. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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~~APPENDICES~~

ILLUSTRATIONS

SUMMARY

The 166 contiguous unpatented claims of the Tay Mountain property are located 28 miles northwest of Faro, Y.T. Work between June and September 1978 included geological mapping, rock and soil geochemistry, gravity, magnetic and Max-Min surveys but this report discusses only geology and geochemistry.

Geological mapping on the Tay property has outlined a section of Lower Cambrian-Ordovician schists and phyllites and graphitic units within quartz-mica schists which are similar to the host rocks for the Anvil orebody. The graphitic schists at the north end of the property are anomalous in lead, zinc and silver.

RECOMMENDATIONS

Geochemically anomalous graphitic horizons within biotitic schists similar to the Anvil host encourages further work. The TAY 2 Grid should be enlarged and geological mapping extended to the northeast of the grid area. Drill testing of the TAY 2 Grid is recommended but the collar locations will depend on interpretation of the gravity and Max-Min surveys.

INTRODUCTION

The TAY claims consist of 166 contiguous unpatented claims covering Cambrian to Lower Ordovician mica schists and calc-silicate units similar to host rocks for the Anvil ore-bodies. TAY 1-96 claims were staked for AMAX Potash Limited in the summer of 1977 followed by TAY 97-166 in 1978 to cover AEM anomalies and graphitic horizons.

Access to the property is by helicopter from Faro, Y.T. 28 miles to the southeast.

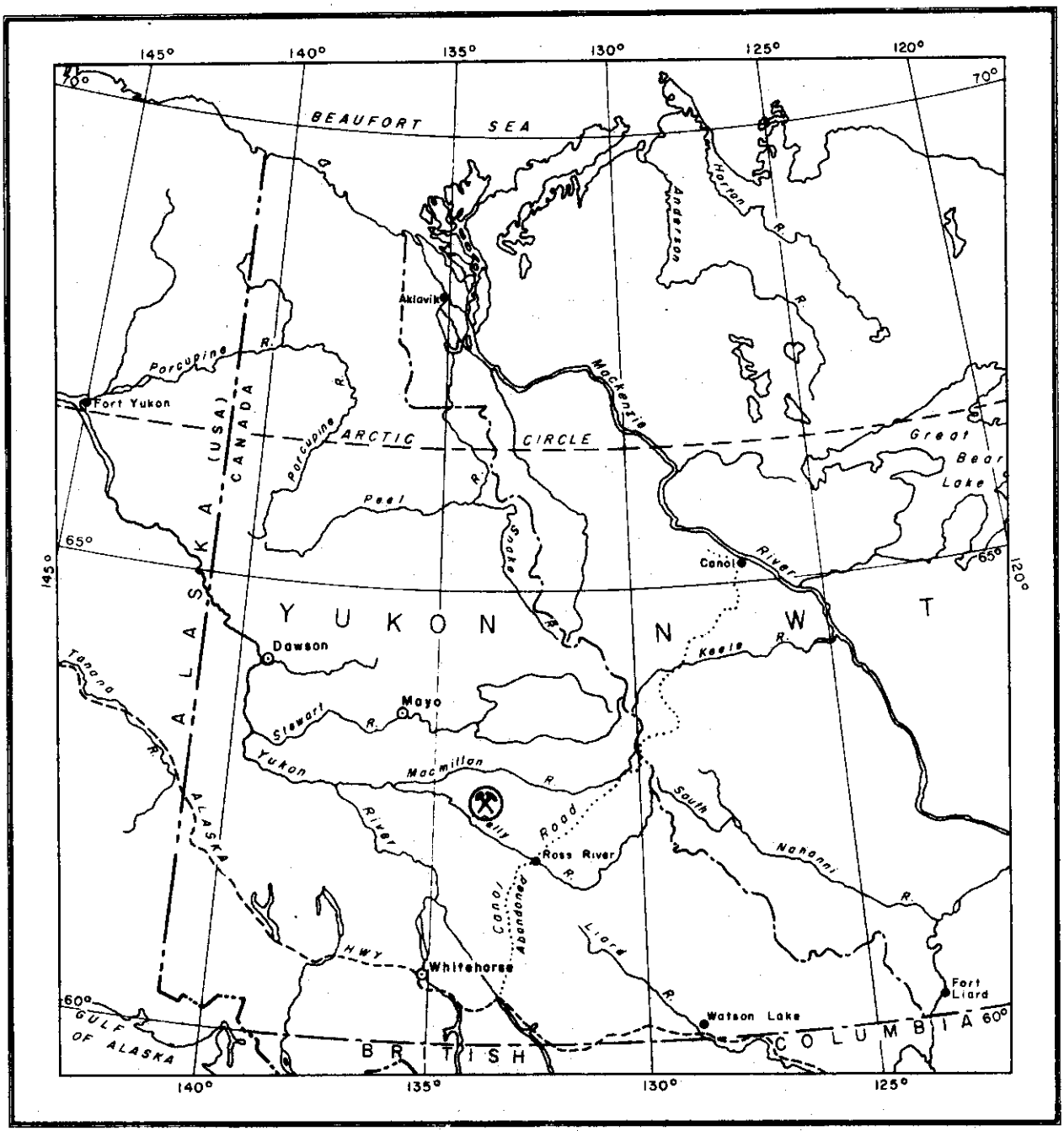
Elevations on the property range from 700 m to 1,700 m. Topography and vegetation vary from steep treed valleys, extensive buckbrush covered slopes to bare ridge tops.

Work from late June to the end of August included geology, soil and rock geochemistry, gravity, magnetic and Max-Min surveys. This report deals only with the geological and geochemical surveys of the TAY claims.

Geological and geochemical data collected between June 23 and August 30 were plotted on a contoured orthophoto base at a scale of 1:10,000. Two grids totalling 16.8 line miles were tied into the orthophoto base.

PREVIOUS WORK

Several companies including Cyprus Anvil and Welcome North have worked in the vicinity of the TAY claims to the extent of drill testing geophysical anomalies, mainly to the southeast of the TAY group in the Anvil Creek valley. The Anvil Syndicate completed geochemical, geophysical and gravity surveys on the Mark claims, which originally covered ground now in the TAY group. Old claim posts were found at the centre and northern end of the TAY group.



N. T. S. Ref. 105 K 5, 12; L 8, 9

AMAX POTASH LIMITED

TAY MOUNTAIN PROPERTY
TAY CLAIMS

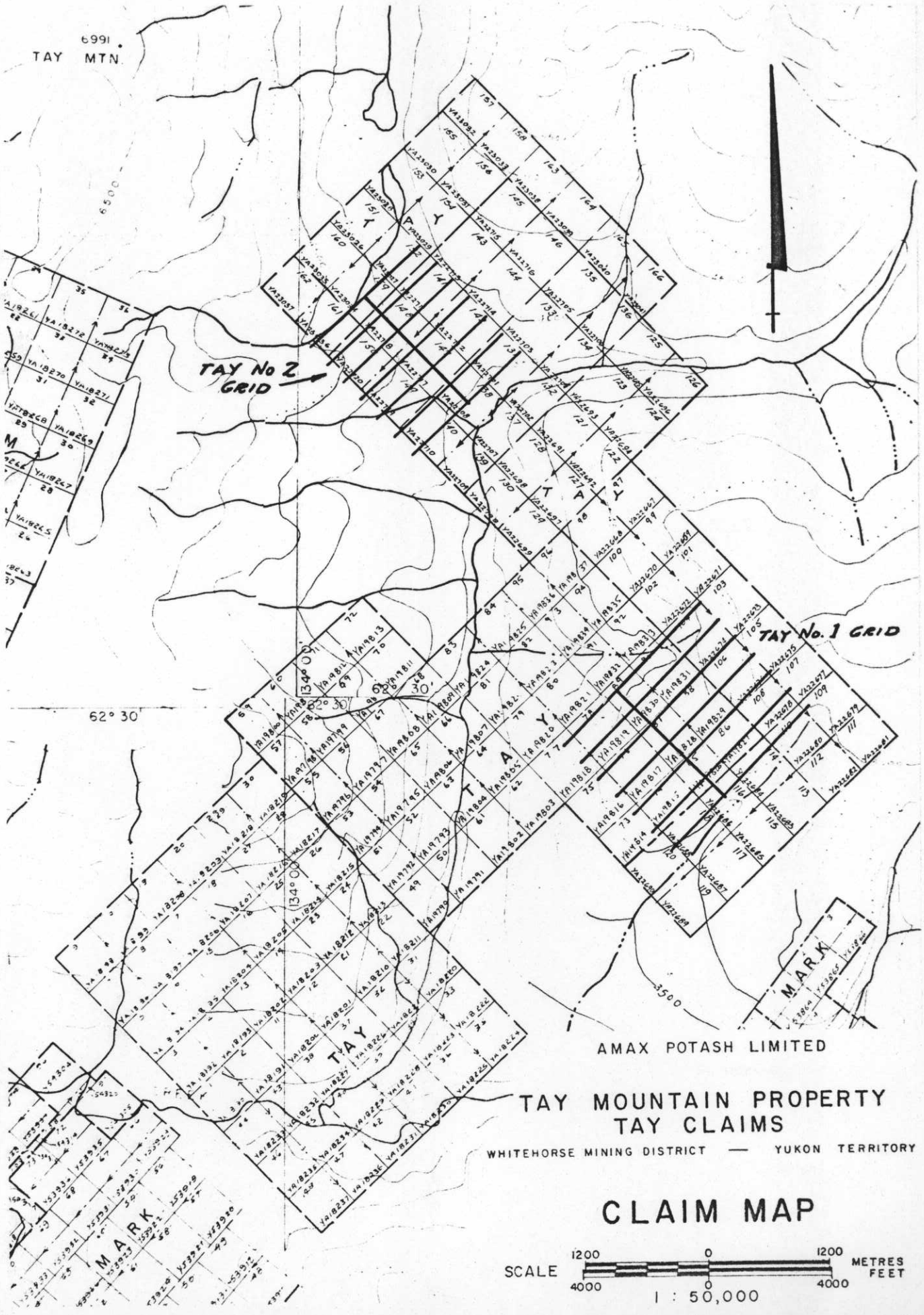
WHITEHORSE MINING DISTRICT — YUKON TERRITORY

LOCATION MAP

SCALE 1" = 120 MILES

Vancouver - H.P.

FIG. 1


6991
TAY MTN.
6500
TAY No 2 GRID
TAY No. 1 GRID
62° 30'
134° 00'
MARK
3500
AMAX POTASH LIMITED
TAY MOUNTAIN PROPERTY
TAY CLAIMS
WHITEHORSE MINING DISTRICT — YUKON TERRITORY
CLAIM MAP
SCALE
1200 0 1200 METRES
4000 0 4000 FEET
1 : 50,000
Vancouver — H.P
N. T. S. Ref. 105 K 5, 12; L 8, 9
FIG. 2

Templeman-Kluit mapped from the eastern TAY claims southeast through the Anvil area deposits to Ross River for the G.S.C. in 1967 - 1968.

AMAX interest in the area began in 1975 with regional mapping and silt sampling. The TAY 1-48 claims were staked in May 1977 to cover silt anomalies draining graphitic phyllites considered favourable for Anvil-type mineralization. TAY 49-96 were staked in August 1977 and the TAY 97-166 in the summer of 1978 to cover AEM anomalies and additional graphitic horizons.

REGIONAL GEOLOGY

Cambro-Ordovician rocks in the Anvil Range are represented by a structurally deformed sequence of biotite-andalusite rich schist, various types of calc-silicate and chlorite phyllite-metabasite units. These rocks have been folded into a major, northwest trending anticline, termed the Anvil Arch, with a core of Cretaceous granitic rocks (Anvil Batholith). The Arch emerges from beneath younger cover near Tay River in the northwest and extends 80 km south-east to Blind Creek. The spatial relationship of the Anvil Arch with the Anvil Batholith suggests coeval development.

The most conspicuous structural feature in outcrop is a prominent pre-Anvil Arch crenulation foliation on which an earlier compositional banding has been transposed. Inter-calated within the metamorphosed and structural deformed meta-sedimentary rocks are discontinuous but economically important graphitic horizons, hosts for all known stratiform lead-zinc orebodies in the area.

The base of the biotite andalusite schist is not exposed but it may overlie the Hadrynian Grit Unit. Metamorphic grade decreases upward from the garnet-staurolite facies present in the biotitic schists to the albite-chlorite facies in the chloritic phyllite. Calc-silicate mineralogy varies from a crystalline marble to diopside-quartz-feldspar-garnet skarn with laminae of biotite-quartz schist. Spatially restricted graphitic horizons occur in all units and range in graphite content from slightly graphitic quartzite to sooty black schists and phyllites. In spite of the diversity of graphitic horizons the ore zones are associated with a distinctive ribbon banded graphitic chert composed of alternating narrow bands of black chert and graphitic argillite with scattered pyrite laminae.

The schist and phyllite sequence of the Anvil area extends northeast through the TAY claims to the Tay River 12 miles northwest of the TAY group.

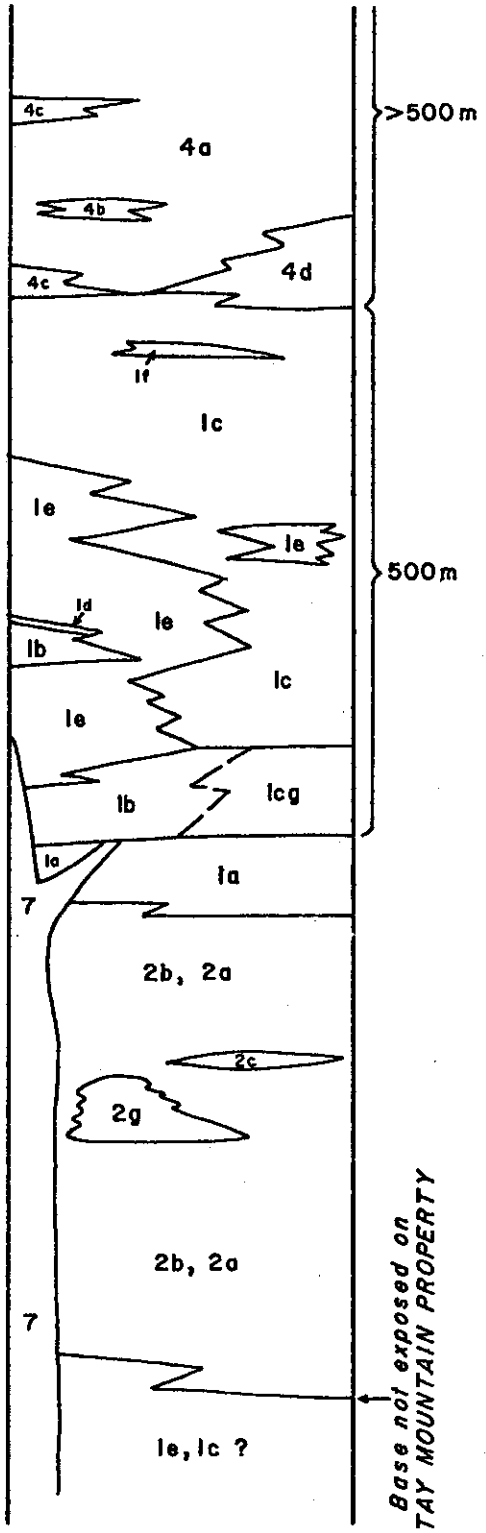
PROPERTY GEOLOGY

A sequence of Lower Cambrian two mica-quartz schists and calc-silicate with overlying Ordovician calcareous chlorite phyllites strikes northwesterly and dips gently to the northeast on the Tay property (Figure 3).

The lowest unit exposed on the property is a calc-silicate unit although regional mapping suggests that the calc-silicate unit could be underlain by quartz-mica schist. The contact between the calc-silicate and overlying mica-schists is gradational west of the north-south trending creek whereas to the east the calc-silicate may be in sharp contact with overlying graphitic schists. Minor rock types within the calc-silicate include coarse grained garnet-diopside skarns, spatially associated with the Cretaceous quartz monzonite, and narrow graphitic bands.

The mica schists above the calc-silicate unit consist of a rusty purplish brown quartz-biotite-sericite±andalusite schist, and its facies equivalent, a quartz-sericite and/or sericite-quartz schist to phyllite. Generally the biotitic schist predominates at the base of the section whereas the sericitic phyllite caps it. Scattered through the mica schist sequence are cherty and/or sericitic graphitic horizons that vary in strike length from 800 metres to several thousand metres. Local bands of grey crystalline marble are exposed near these graphitic horizons but are at least 400 m above the main calc-silicate unit.

The youngest metamorphic rock type on the property is a chloritic phyllite to metabasite unit exposed on a ridge on the eastern portion of the claim block. At least three narrow cherty and/or calcareous, slightly graphitic bands were noted in the chlorite phyllite.



STRATIGRAPHIC COLUMN

Small apophyses of Cretaceous quartz monzonite on the property are probably related to stocks to the west and north.

The depositional environment of the mica schists is probably best interpreted as a thick clastic turbidite sequence interrupted by an influx of carbonate debris. Periods of low clastic deposition are represented by by the graphitic horizons. Chloritic phyllites are a mixture of both volcaniclastic sediments and basic pyroclastic deposits. A volcanic component to the clastic sequence becomes noticeable towards the top of the quartz-sericite phyllite and narrow amphibolitic bands within the calc-silicate may represent brief basic volcanic episodes.

A detailed description of the rock types exposed on the property follows a discussion of structural geology.

STRUCTURAL GEOLOGY

The schists and phyllites generally dip gently to the northeast except at the north end of the property where they display gentle warps. Lithologic contacts appear to parallel the main metamorphic foliation in spite of several ages of minor folds. Foliation is locally parallel to compositional banding in the phyllite and calc-silicate but in the biotite schist transposition of compositional banding into the foliation plane has advanced to the stage where only small isoclinal folds and hinge remnants suggest a former compositional banding. A weak to well developed wrinkle crenulation on the foliation plane is the result of the intersection of minute kinks and foliation plane. The cleavage is not readily visible in outcrop but in thin section is outlined by the alignment of mica flakes. The wrinkle crenulations are parallel, or nearly so, to several southeast trending open folds on the TAY 120-166 and may be the manifestation of a much larger structure not visible on the claim block.

Open warps that post-date the foliation trend either northeast or southeast on an outcrop scale. Their signficance in the regional structural history is not known.

Description of Map Units

The following rock units exposed on the Tay property are described below.

Cretaceous

Unit 7 - Quartz monzonite and porphyritic quartz monzonite plugs and dykes exposed on the west and north margins of the property are apophyses of Anvil Intrusions underlying Tay Mountain and peaks north of the property. Except for the development of scattered quartz veins and locally of garnet-diopside skarns the intrusive event has had little effect on the schists and calc-silicate units.

Middle Cambrian to Lower Ordovician

Unit 4a, b, c, d - The generally calcareous chlorite phyllite and phyllitic basic tuffs of Unit 4a exposed on the east side of the property are the youngest metamorphic rocks on the property. Patches of epidote alteration appear to be randomly distributed through the phyllite. A large rusty weathering patch of siderite alteration contrasts with the monotonous grey-green chloritic outcrops. Grey cherts and cherty phyllites (4b) and dark grey to black siliceous and/or argillaceous, often slightly graphitic and chloritic bands (4c) are intercalated with basic phyllites. A band of interbedded calc-silicate, quartz-mica schists and chlorite phyllite (4d) forms a transition zone between the quartz mica schists of Unit 1 and the chlorite phyllites at the northeast end of the TAY 1 Grid.

Lower Cambrian

Unit 2a, b, c, g - The calc-silicate and minor skarn bands (Unit 2) which are the oldest lithologies exposed on the property, form light weathering scarps in stream valleys. Thinly interbedded calc-silicate and quartz-biotite sericite schist (2b) comprises about 90% of the calc-silicate sequence. Bands of amphibolite within 2b could be either narrow basic sills or basic volcanic tuffs. Fairly pure calc-silicate composed of diopside-quartz-feldspar, sericite±sphene with scattered quartz-biotite-sericite schist bands (2a) crops out in pale weathering cliffs at the western extent of calc-silicate exposure. Narrow bands of graphitic calc-silicate and quartz-sericite-graphite schist (2c) are not considered to have any economic importance. Several outcrops of coarse grained garnet-diopside skarn (2g) are spatially associated with the Cretaceous quartz monzonite.

Unit 1a, 1b, 1c, 1cg, 1d, 1e and 1f - The quartz-mica schists and graphitic horizons of Unit 1 are thought to be the equivalent of the host of the Faro orebodies. Unit 1a consists of quartz-biotite-sericite schist with approximately ten percent light to dark green calc-silicate bands. West of the north-south

creek (see Figure 3) it forms the transition between a thick calc-silicate unit (2b) and overlying quartz-mica schists. Although this lithology is well exposed on a dip slope west of the north-south creek valley it may be quite thin and is not exposed east of the creek or, alternatively it may grade laterally across the valley into quartz mica schist.

The bulk of the quartz two mica schist sequence consists either of a rusty weathering purplish brown quartz-biotite-sericite±andalusite schist (1e) or its facies equivalent, a light to medium grey quartz-sericite and sericite-quartz schist to phyllite (1c). Unit 1c is often well banded with alternating quartz rich and sericite rich laminae. Bands of sericitic quartzite up to several feet thick are present within the quartz sericite schist. Exposures of 1c on TAY 1 Grid are often a papery weathering sericite rich schist to phyllite. The quartz-sericite schist grades northwesterly into quartz-biotite-sericite± andalusite schist (1e). Outcrops of Unit 1e south of the TAY 2 Grid contain bands of up to 50% andalusite that often weather out leaving rectangular pits.

Graphitic horizons (1b) in the mica schists vary from a graphitic recrystallized chert to graphitic quartz-sericite schist and slightly graphitic fine grained biotitic schist. Iron sulphide content rarely exceeds three percent. Graphitic outcrops are most numerous in the vicinity of the TAY 2 Grid where gentle warps have increased the exposure of at least two separate graphitic horizons.

The graphitic units hosted by the biotitic schist are usually more graphitic and quartz rich but less sericitic than the graphitic phyllites within the quartz-sericite phyllite.

The lowest graphitic unit in the 1e schist crops out just above the 2d calc-silicate and grades laterally into a quartz-sericite-graphite schist (1cg). Medium to dark grey

crystalline marble with scattered graphitic laminations (1d) is spatially associated with the upper contacts of several graphitic bands.

Several outcrops of chloritic phyllite (1f) near the top of the sericitic phyllite represent, intercalations of the chlorite phyllite metabasite sequence (4a) and indicate a gradational contact between 4a and 1c .

REGIONAL GEOCHEMISTRY

The following discussion is a summary of previous work by Leary et al (1977) and Morton (1970) on orientation surveys carried out by AMAX and others over major deposits in the Anvil area.

Despite the presence of permafrost and glacial overburden the trace element content of bedrock is reflected in the soil. However, soil horizons are often discontinuous leading to varying degrees of metal enrichment. At Vangorda local clay layers within the overburden mask metal ion migration from the underlying massive sulphide body to produce geochemical highs separated by areas of background values. In spite of these problems soil sampling over the Anvil, Vangorda and Swim deposits reveal secondary Pb, Zn, Mo and Ba haloes above the ore zones. In general the Zn anomalies appear to be the most extensive and uniform whereas Pb anomalies are more erratic.

At Vangorda erratic spot anomalies of 2 to 3 times background occur in low swampy areas and are not associated with underlying sulphide mineralization. Only homogeneous areas with anomalies greater than 2 to 3 times background are considered significant.

Soils overlying magnetic greenstone are enriched in nickel and copper while soils overlying granite are slightly enriched in tin.

Soil development in the region is immature and consists of the following zones:

A) Humus - several inches thick
B) Volcanic Ash - unconsolidated, up to 6" thick
C) Glacial - gravel, sand and clay to bedrock.

Orientation studies have concluded that the C soil zone is the most reliable zone to sample.

From previous AMAX surveys threshold values for soils in the Selwyn Basin are as follows:

Element Analyzed	Anomalous Threshold	
Pb	> 50 ppm	
Zn	≥150	
Ba	≥700	
Ag	≥1.0	
Cu	≥ 80	
Mo	≥ 10	
Ni	≥100	
Co	≥ 70	
Mn	≥600	
Fe	≥5.0%	{- Upper Threshold
W	≥ 10	

Cyprus Anvil has noted that rock chip samples from the ore-bearing graphitic unit, collected from outside the ore zone, are geochemically anomalous (whereas rock chips collected from other graphitic horizons are generally not).

PROPERTY GEOCHEMICAL SURVEY

Introduction

The objective of the present survey was to delineate areas of bedrock mineralization and expand the geochemical data base for the Anvil Creek area.

Soil samples were taken at 200 foot intervals along a number of traverse lines run perpendicular to the geological strike and at 30 m intervals along cut grid lines. Grub hoes were utilized to collect samples from the top of the C zone just below the ash layer.

Silt samples were taken wherever traverses intersected streams.

Rock chip samples were collected from every graphite-bearing outcrop encountered.

A total of 1,741 samples consisting of 1,521 soil, 60 silt and 160 rock chip samples were collected and analyzed by Rossbacher Laboratory for Cu, Ni, Co, Mn, Fe, Pb, Zn, Ag and Mo.

Environment

The TAY claims straddle a north trending creek valley. The creek is moderate to fast flowing and varies in width from 5 to 15 feet. The gradient of the eastern valley slope varies from steep near the valley bottom to moderate towards the top while the western side of the valley generally has a moderate slope.

Less than 15% of the property is above tree line and is covered by alpine grasses. The valley sides are covered by thick buckbrush, spruce and pine.

Since the property is very well drained, wooded earths are the dominant soil type except in a swampy area at the north end where thick humic gleysols dominate the soil profile.

Permafrost was not encountered during the soil geochemical survey.

Results

Sample sites and corresponding values for Pb, Zn, Ag are plotted on 1:10,000 scale maps (Figure 4). Data for the remaining elements is presented in Appendix III.

Soil Samples - The range of values for each element is presented below:

	Low (ppm)	High (ppm)
Mo	1	40
Cu	1	384
Ni	4	228
Co	2	66
Mn	2	3160
Fe	0.5%	7.4%
Ag	0.2	2.2
Zn	6	680
Pb	1	342

Silt Samples - The range of values for each element is as follows:

	Low (ppm)	High (ppm)
Mo	1	6
Cu	10	92
Ni	24	192
Co	12	80
Mn	100	1480
Fe	1.4%	4.2%
Ag	0.2	1.0
Zn	46	352
Pb	6	52

Rock Chip Samples - The range of values for each element is as follows:

Mo	1	58
Cu	2	160
Ni	8	172
Co	6	96
Mn	40	4700
Fe	0.3%	6.5%
Ag	0.4	3.0
Zn	4	372
Pb	6	250

DISCUSSION OF GEOCHEMICAL RESULTS

Threshold values determined from previous AMAX soil surveys, (ref. page 12), were used in the present survey.

All Pb-Zn-Ag anomalies except those occurring at the north end of TAY Grid 1 occur over or adjacent to known graphite bands.

Soil samples collected over discontinuous graphitic bands within mica schist units at the southwest end of the property are slightly anomalous in zinc. Only one of the bands has an anomalous rock chip value; Zn (372 ppm). For the present time the economic potential of these zinc enhanced horizons is considered to be minimal.

A few scattered zinc soil anomalies occur over the quartz-sericite-graphite-schist lithologic unit (1cg) and probably reflect above background zinc values in the graphitic portions of this unit.

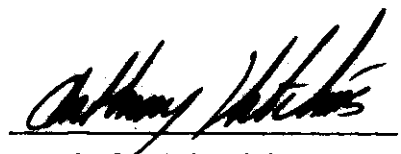
Three significant geochemical anomalies occur on the property and are presented in decreasing order of importance.

Anomaly 1 - Rock chips collected from graphitic units enclosed by biotitic schists on the TAY 2 Grid are geochemically anomalous in Pb, Zn and Ag. The highest recorded values are: 186 ppm Pb, 204 ppm Zn, and 3.0 ppm Ag. The anomaly has an approximate areal extent of 1.0 sq km but may be much larger than indicated.

Soils collected over the area are not significantly anomalous which may be due to clay layers within the soil profile or low mobility of metal ions due to low pyrite content of the graphitic units.

Anomaly 2 - Rock chips from a graphitic band within biotitic schists occurring along the north central portion of the property are geochemically anomalous in lead. The highest recorded value is 120 ppm Pb. Again, no soil or silt anomalies occur over the band. The anomaly has an approximate areal extent of 0.3 sq km.

Anomaly 3 - Three closely spaced soil samples at the north end of L240W on TAY 1 Grid have maximum values of 342 ppm Pb, 240 ppm Zn and 1.6 ppm Ag. The anomaly is underlain by chloritic phyllite and was not detected on lines 120 m on either side of the anomalous samples. The anomaly is given a low priority.



A.C. Hitchins

APPENDIX III

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. # 8065
INVOICE NO. 8068
DATE ANALYSED July/78

TO: AMAX Exploration Inc
535 THURLOW ST. VANC.
PROJECT Fishook Creek

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FRL 8		2	18	16	12	420	2.0	.4	68	16			01
02	T 9		10	20	40	16	360	2.7	.4	100	24			02
03	L 10		4	44	46	18	360	2.9	.6	148	24			03
04	11		4	32	44	18	320	2.6	.6	120	22			04
05	9		1	34	42	16	300	2.5	.4	128	24			05
06														06
07														07

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. # 8061
INVOICE NO. 8068
DATE ANALYSED July/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST VAN. 5, BC
PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78 FRT 1		1	60	16	32	240	3.2	.4	36	8			01
02	3		7	132	92	96	360	4.3	.6	84	20			02
03	4		5	60	64	44	200	2.1	.4	96	26			03
04	5		3	24	50	40	280	4.0	.4	128	28			04
05	6		3	2	16	20	360	.5	.2	14	6			05
06	7		2	2	32	34	560	2.0	.6	52	24			06
07	12		8	30	84	56	320	4.7	.4	212	16			07
08	13		6	28	62	60	380	3.7	.6	80	24			08
09	14		5	16	44	44	280	2.9	.4	76	24			09
10	15		26	16	40	52	120	1.6	.4	32	14			10
11	16		3	16	48	32	240	4.0	.4	112	36			11
12	17		10	32	28	28	160	3.5	.4	72	28			12
13	18		3	24	46	32	200	1.0	.4	34	16			13
14	19		2	28	58	30	200	4.3	.4	132	40			14
15	20		2	44	56	32	200	3.0	.6	88	44			15
16	21		2	40	48	32	160	1.9	.4	40	24			16
17														17
18														18
19														19
20														20
21														21
22														22
23														23
24														24
25														25
26														26

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Vanc. BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78 FXT 14		34	24	40	32	200	3.6	.6	110	28			01
02	15		18	8	28	26	40	0.4	.4	12	14			02
03	16		16	16	38	34	60	0.6	.4	28	8			03
04	17		12	52	124	84	300	2.6	1.0	86	40			04
05	18		12	32	80	58	300	2.4	.8	68	20			05
06	19		6	24	64	42	440	3.5	1.0	88	36			06
07	20		10	36	86	60	400	3.4	1.0	100	32			07
08	21		6	88	68	52	140	6.3	.6	108	16			08
09	22		8	76	64	40	240	4.2	.6	116	20			09
10	23		32	40	74	54	120	1.5	.6	160	56			10
11	24		12	2	32	32	40	0.4	.4	8	24			11
12	S25		1	96	82	26	440	2.8	.4	100	16			12
13	26		2	116	128	32	560	4.4	.6	64	18			13
14	27		1	70	84	40	560	50	.6	128	20			14
15	28		6	54	40	20	660	3.5	.6	56	16			15
16	29		4	90	56	22	380	3.2	.4	68	14			16
17	30		4	56	68	20	300	3.7	.4	90	14			17
18	31		8	30	60	18	300	3.1	.6	118	18			18
19	32		6	20	34	16	400	2.9	.6	88	18			19
20	T33		22	20	52	48	120	1.4	.8	28	18			20
21	34		16	32	22	18	160	2.4	.8	84	20			21
22	S35		2	80	52	16	320	1.6	.4	46	8			22
23	36		4	76	30	16	600	1.9	.4	40	12			23
24	37		3	24	38	20	200	2.8	.6	88	20			24
25	38		2	32	30	18	360	2.4	.6	76	16			25
26	39		1	70	20	10	400	0.7	.4	20	4			26
27	40		1	54	56	20	400	3.1	.6	136	22			27
28	41		2	116	140	40	560	4.6	.8	112	26			28
29	42		1	52	100	28	520	4.0	.8	128	28			29
30	43		1	26	50	16	1080	1.7	.4	40	12			30
31	44		1	32	40	16	480	2.2	.6	44	16			31
32	45		1	32	50	20	640	2.5	.4	72	22			32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

Certified by C. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

TO: Amax Minerals Exploration 535 Thurlow St. Van. B.C.

PROJECT 791

CERTIFICATE NO. 8077

INVOICE NO. 8078

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	As	Zn	Pb			No.
01	78FTT106		4	36	44	20	460	6.1	1.6	264	40			01
02	107		26	44	78	64	160	1.7	.6	30	28			02
03	108		24	44	68	56	120	1.3	.4	20	22			03
04	109		8	42	44	36	260	2.9	.8	76	34			04
05	110		6	120	70	20	400	5.7	1.4	192	34			05
06	112		10	28	32	20	400	3.8	.8	88	36			06
07	113		8	24	32	28	300	2.9	.8	76	32			07
08	114		36	14	44	44	160	1.2	.4	22	14			08
09	115		14	10	40	40	140	1.1	.4	34	20			09
10	116		6	54	56	40	180	2.3	.4	60	22			10
11	117		18	38	52	44	120	1.8	.6	60	22			11
12	118		14	14	36	36	160	2.1	.4	46	16			12
13	119		8	22	40	40	200	3.4	1.0	100	32			13
14	120													14
15	121		38	8	72	72	160	1.6	.4	44	16			15
16	122		6	56	56	40	200	2.2	.6	108	36			16
17	123		10	12	56	42	300	3.9	.6	74	20			17
18	124		10	34	58	44	140	2.1	.4	96	18			18
19	125		2	32	72	24	320	6.5	.6	80	14			19
20	126		40	14	44	48	100	1.3	.4	28	24			20
21	127		2	24	44	30	220	2.8	.8	108	50			21
22	128		26	30	114	92	400	3.7	.8	110	34			22
23	129		6	68	100	60	360	2.3	1.0	232	250			23
24	130		10	8	8	8	80	1.0	.6	78	30			24
25	131		6	12	10	12	100	0.6	.4	12	22			25
26	132		10	12	34	30	100	2.2	.6	44	18			26
27	133		36	24	104	80	180	1.8	.6	48	18			27
28	134		28	16	76	44	200	1.7	.4	52	32			28
29	135		18	18	60	24	100	1.6	.6	44	22			29
30	L111		2	28	48	20	100	2.7	.6	112	14			30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40	G-7		28	170	228	8	80	0.7	.5	64	70			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8061
INVOICE NO. 8068
DATE ANALYSED July 17/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST. VAN B.C.
PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FGT 15		19	20	76	64	80	1.2	.4	12	16			01
02	17		8	68	76	64	360	4.6	.4	92	24			02
03	18		2	16	64	48	320	3.9	.6	96	36			03
04	19		9	26	44	32	120	4.8	.4	116	20			04
05	21		22	40	44	36	160	6.5	.4	164	14			05
06														06
07														07
08														08
09														09

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8077 8079
INVOICE NO.
DATE ANALYSED July/78

TO: AMAX EXPLORATIONS INC.
535 THURLOW ST. VANC.
PROJECT Fishook Creek

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FIS 1		1	36	48	16	220	2.2	.4	82	20			01
02	2		3	14	20	8	240	0.9	.2	48	8			02
03	3		1	26	40	16	200	2.3	.4	74	16			03
04	4		1	20	24	12	240	1.5	.4	44	14			04
05	5		1	32	46	18	200	2.2	.4	80	16			05
06	6		2	34	52	20	200	2.6	.4	92	18			06
07	7		1	20	24	12	160	1.6	.2	40	10			07
08	8		1	28	50	22	240	2.6	.6	82	18			08
09	9		2	36	40	16	200	2.0	.4	78	18			09
10	10		1	44	46	20	280	2.5	.4	90	20			10
11	11		1	44	48	20	260	2.5	.4	84	16			11
12	12		1	58	56	24	320	2.7	.4	108	18			12
13	13		1	44	48	20	440	2.1	.4	92	14			13
14	14		1	48	50	20	500	1.9	.4	86	12			14
15	16		2	20	20	10	80	1.3	.4	52	8			15
16	17		1	14	10	4	40	0.8	.4	16	4			16
17	18		1	4	8	4	40	0.9	.2	14	0			17
18	19		1	20	14	8	240	0.7	.4	30	8			18
19	20		1	18	12	6	80	0.8	.2	16	4			19
20	21		1	26	26	14	220	2.0	.4	48	16			20
21	22		1	10	20	12	120	2.0	.4	38	16			21
22	23		1	12	28	14	140	3.2	.6	60	20			22
23	24		8	52	34	12	120	2.5	.6	98	20			23
24	25		2	20	24	8	80	2.2	.4	60	16			24

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE., BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077
INVOICE NO. 8078
DATE ANALYSED July 1/78

TO: Amax Minerals Exploration
535 Thurlow St. Van. BC.

PROJECT 791

No.	Sample	pH	Mo	Cu	Pb	Co	Mn	Fe	Ag	Zn	Ni			No.
01	78FG744		16	20	36	32	100	1.0	.4	48	12			01
02	45		14	24	32	32	100	0.8	.6	24	20			02
03	46		18	30	60	52	160	1.7	.6	72	20			03
04	47		20	8	34	36	80	0.6	.4	12	12			04
05	48		18	12	28	28	120	1.2	.8	60	30			05
06	49		14	8	34	32	60	0.8	.4	14	8			06
07	50		18	14	44	40	60	0.9	.4	68	10			07
08	51		22	30	54	48	160	1.3	.4	28	16			08
09	52		24	10	36	56	60	0.7	.4	16	20			09
10	53		58	54	56	46	240	1.7	.8	76	18			10
11	54		17	16	44	48	60	0.8	.4	12	16			11
12	55		22	46	52	48	100	0.9	.4	72	10			12
13	56		24	12	44	40	80	0.7	.6	50	24			13
14	57		28	18	44	40	160	0.7	.4	24	12			14
15	L58		2	32	56	32	720	3.0	.4	140	16			15
16	T59		28	24	48	44	100	1.5	1.6	20	10			16
17	60		18	10	50	48	200	1.1	.6	64	8			17
18	61		44	88	100	70	100	3.8	.6	116	8			18
19	62		48	110	108	72	100	4.3	4	140	8			19
20	63		30	52	44	44	80	2.4	1.2	356	16			20
21	L43		4	20	34	16	400	2.2	4	80	18			21
22														22
23														23
24														24
25														25
26														26
27														27
28														28
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Vanc. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FGS 103		1	42	28	12	160	1.3	.4	36	10			01
02	104		2	104	208	44	600	5.4	.8	108	14			02
03	105		3	106	154	42	600	5.9	.6	94	14			03
04	106		1	2	6	8	80	1.0	.2	12	4			04
05	107		1	32	56	22	320	3.7	.4	76	22			05
06	108		1	54	80	30	560	4.1	.4	104	20			06
07	109		1	66	64	34	52	3.8	.4	64	14			07
08	110		1	24	24	8	160	1.4	.2	24	6			08
09	111		1	24	18	8	120	1.1	.2	24	4			09
10	112		1	26	14	8	160	0.9	.2	12	4			10
11	113		1	36	18	8	200	0.6	.4	10	4			11
12	114		1	28	24	12	460	0.9	.2	32	8			12
13	115		1	20	18	10	200	1.2	.4	30	8			13
14	116		1	8	8	8	120	1.0	.2	22	6			14
15	117		1	48	16	10	160	1.6	.6	36	56			15
16	118		1	8	6	6	80	1.3	.2	24	10			16
17	119		1	2	4	4	60	0.7	.2	10	4			17
18	120		1	1	4	4	80	1.0	.2	14	4			18
19	121		1	36	32	20	220	1.6	.6	40	16			19
20	122		1	36	54	28	400	2.1	.8	80	20			20
21	123		1	24	30	16	280	1.7	.4	44	10			21
22	124		1	1	6	8	100	1.0	.2	14	4			22
23	125		1	1	4	4	20	0.7	.2	12	4			23
24	126		1	12	24	12	160	1.9	.4	48	12			24
25	127		1	8	14	6	60	0.9	.2	20	6			25
26	128		1	4	8	8	60	0.9	.2	16	4			26
27	129		1	1	4	6	40	0.8	.2	16	4			27
28	130		1	1	6	4	40	0.7	.2	12	4			28
29	131		1	2	10	4	80	0.8	.2	20	2			29
30	132		1	20	30	12	200	1.4	1.2	48	10			30
31	133		1	12	20	10	200	1.2	.4	40	8			31
32	134		1	12	16	8	240	1.2	.4	36	8			32
33	135		1	8	8	4	40	0.6	.2	18	4			33
34	136		1	12	12	8	120	1.0	.4	22	4			34
35	137		1	20	16	8	300	0.7	.4	26	6			35
36	138		1	2	6	4	60	0.7	.2	12	2			36
37	139		1	6	8	4	100	0.8	.2	12	2			37
38	140		1	24	42	16	300	2.3	.4	64	16			38
39	141		1	12	10	6	240	0.8	.2	16	4			39
40	142		1	2	6	4	60	0.7	.2	8	2			40

Certified by T. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS
2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8065
INVOICE NO. 8068
DATE ANALYSED July/78

TO: AMAX EXPLORATION INC
535 THURLOW ST. VAN. 5, BC
PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	As	Zn	Pb			No.
01	8FWS 464		1	12	8	6	40	.6	.4	12	8			01
02	466		3	32	60	24	480	3.3	.6	116	20			02
03	467		2	38	32	14	180	1.9	.4	52	12			03
04	468		2	32	88	24	340	3.3	.4	96	24			04
05	469		1	12	8	12	80	.8	.2	12	4			05
06	470		2	12	36	10	160	2.0	.2	48	12			06
07	471		2	16	50	20	200	2.8	.4	88	16			07
08	472		2	32	64	32	320	3.3	.6	96	20			08
09	473		2	46	60	80	200	2.3	.2	72	12			09
10	474		2	40	64	22	520	3.4	.6	92	24			10
11	475		2	28	54	20	240	2.6	.6	64	16			11
12	476		1	28	64	26	260	3.1	.6	84	20			12
13	477		1	52	80	20	240	3.2	.8	120	16			13
14	478		1	28	64	26	240	3.1	.6	88	20			14
15	479		1	24	72	22	240	2.9	.6	72	20			15
16	480		1	4	8	8	80	.9	.2	16	4			16
17	481		2	56	80	22	200	3.3	.8	80	20			17
18	482		1	60	140	36	440	4.1	.8	168	28			18
19	483		2	28	72	26	200	3.6	.4	80	24			19
20	484		2	32	60	20	180	3.0	.6	80	24			20
21	486		2	26	52	26	480	3.6	.4	108	20			21
22	487		1	32	68	28	340	4.0	.6	124	24			22
23	L 488		1	28	56	24	460	3.2	.4	104	20			23
24	S 489		2	32	64	26	380	3.4	.6	88	20			24
25	490		1	28	40	14	180	2.4	.8	96	12			25
26	491		4	38	40	20	240	3.0	.6	92	14			26
27	492		6	42	72	32	340	4.2	1.0	164	24			27
28	493		4	30	44	20	240	3.2	.6	104	20			28
29	494		4	40	56	28	360	3.8	.8	132	20			29
30	495		2	32	52	22	280	3.6	.6	112	24			30
31	456		4	36	68	28	320	4.8	.6	136	24			31
32	497		2	32	34	16	160	2.0	.4	52	16			32
33	498		2	28	52	28	280	4.2	.6	92	20			33
34	499		2	20	32	12	180	2.3	.4	52	16			34
35	500		2	20	40	14	300	2.9	.4	68	16			35
36	F 501		2	20	32	20	240	3.7	.4	68	16			36
37	S 502		2	32	56	26	320	4.0	.6	96	28			37
38	503		2	14	16	12	140	1.6	.4	44	20			38
39	504		2	50	68	26	320	3.5	.6	92	20			39
40	GP		6	40	14	12	220	2.8	.4	112	24			40

Certified by T. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8065

INVOICE NO. 8068

DATE ANALYSED July/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST. VAN. 5. BC

PROJECT FISHHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FWS 644		5	46	56	22	460	3.0	.8	152	24			01
02	545		1	4	8	8	40	0.8	.2	12	4			02
03	546		1	8	14	8	80	1.3	.4	32	8			03
04	547		2	32	52	18	200	2.9	.6	120	28			04
05	548		1	18	27	8	140	1.4	.4	44	12			05
06	549		10	24	36	20	1440	2.4	.6	116	24			06
07	550		5	18	32	16	240	2.2	.4	92	22			07
08	551		4	18	34	14	360	2.0	.4	84	20			08
09	552		3	32	60	20	440	2.8	.6	140	24			09
10	553		2	14	46	16	280	2.5	.2	76	20			10
11	554		1	10	36	12	160	2.0	.2	72	16			11
12	555		1	24	48	16	160	2.5	.4	76	20			12
13	556		1	48	32	22	320	3.1	.6	112	28			13
14	557		1	20	50	20	420	2.5	.4	100	24			14
15	558		1	48	64	12	280	1.2	.4	52	12			15
16	559		1	22	52	18	500	2.3	.4	116	20			16
17	560		1	14	24	12	320	1.2	.4	64	8			17
18	561		1	28	48	28	440	3.4	.4	124	24			18
19	562		4	68	128	32	400	4.4	.8	240	36			19
20	563		2	32	68	20	300	3.0	.4	112	28			20
21	564		1	22	52	18	320	2.4	.4	100	20			21
22	565		2	8	12	6	80	0.6	.2	38	4			22
23	566		2	32	56	14	280	2.2	.4	92	20			23
24	567		2	40	54	14	300	2.5	.6	92	20			24
25	568		2	30	50	20	480	2.6	.6	104	20			25
26	569		1	20	46	20	360	2.4	.4	92	20			26
27	570		1	20	44	18	280	2.2	.4	80	16			27
28	571		1	24	56	20	340	2.4	.6	88	16			28
29	572		1	20	42	18	360	2.5	.4	100	16			29
30	573		2	36	48	18	400	3.0	.6	124	24			30
31	574		1	16	40	12	200	2.2	.4	72	14			31
32	575		1	12	20	10	100	1.3	.2	30	6			32
33	576		1	14	24	12	360	1.4	.2	64	12			33
34	577		1	28	42	16	360	2.2	.4	84	20			34
35	578		1	28	48	18	360	2.6	.4	96	20			35
36	579		4	40	56	22	460	2.6	.6	104	20			36
37	580		1	22	48	20	400	2.8	.4	100	20			37
38	581		1	24	40	16	280	2.2	.4	80	20			38
39	582		1	34	60	20	360	2.8	.6	100	24			39
40	G-6		46	368	272	20	320	1.8	3.0	356	X			40

Certified by J. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. # 8077 ~~8065~~

INVOICE NO. 8078

DATE ANALYSED July/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST. VAN. 6 B.C.

PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb		Bi	No.
01	8FWS623		1	14	38	14	160	1.6	.4	74	12			01
02	624		1	14	32	14	140	1.7	.4	74	14			02
03	625		1	22	38	16	180	1.8	.4	78	12			03
04	626		1	16	40	14	160	1.6	.4	88	12			04
05	627		1	6	4	20	0.9	.2	16	2				05
06	628		1	14	32	12	120	1.6	.4	70	8			06
07	629		1	16	20	10	320	1.2	.2	60	8			07
08	630		1	18	40	12	180	1.6	.2	68	12			08
09	T427		4	34	56	36	400	2.9	.4	120	14			09
10	440		8	30	44	34	80	3.4	.6	130	24			10
11	480		1	30	24	8	20	1.0	.2	18	4			11
12														12
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Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

8

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: Nimax Minerals Exploration
535 Thurlow St. Vanc. B.C.

INVOICE NO. 8078

PROJECT 791

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	F	No.
01	78-WS670		2	10	16	8	80	1.3	.2	30	8	0		01
02	671		1	16	34	12	260	1.7	.4	40	8	0		02
03	672		2	30	52	16	240	2.8	.4	88	12	0		03
04	673		2	32	96	20	260	3.2	.6	90	20	0		04
05	674		2	32	96	22	220	3.1	.4	110	18	0		05
06	675		2	36	100	26	260	3.5	.6	76	16	0		06
07	676		1	26	48	20	200	3.5	.4	92	12	0		07
08	677		1	40	76	44	340	3.9	.4	140	20	0		08
09	678		2	28	40	16	220	2.3	.2	56	12	0		09
10	679		2	24	32	14	140	2.3	.2	44	10	0		10
11	680		1	46	76	24	320	3.3	.4	86	20	0		11
12	681		1	22	12	4	100	0.8	.2	22	8	0		12
13	682		2	32	52	20	240	2.7	.4	98	12	0		13
14	683		2	20	20	8	100	1.9	.4	52	10	0		14
15	684		1	24	12	4	40	0.9	.2	20	4	0		15
16	685		1	6	4	4	60	1.0	.2	20	1	0		16
17	686		1	126	116	18	120	0.8	.4	76	12	0		17
18	687		1	40	46	32	400	1.1	.4	140	6	0		18
19	688		1	14	12	8	80	2.5	.4	40	12	0		19
20	689		1	32	48	20	280	3.3	.4	144	18	0		20
21	690		1	12	16	8	80	1.1	.2	44	6	0		21
22	691		1	32	20	8	80	1.2	.4	64	10	0		22
23	692		1	40	36	14	280	2.1	.4	124	16	0		23
24	693		1	24	36	20	160	2.6	.4	124	16	0		24
25	694		1	28	28	14	220	2.5	.4	80	12	0		25
26	695		1	12	16	8	120	1.8	.2	44	6	0		26
27	696		1	30	40	20	500	2.6	.4	110	16	0		27
28	697		1	20	28	14	160	2.3	.4	84	12	0		28
29	698		1	20	36	20	280	3.0	.2	96	16	0		29
30	699		1	20	32	14	200	2.5	.4	80	12	0		30
31	700		1	18	22	8	120	1.9	.2	52	12	0		31
32	701		1	18	28	16	200	2.5	.2	78	20	0		32
33	702		1	14	28	12	200	2.5	.2	52	10	0		33
34	703		2	56	60	28	300	2.3	.2	230	16	0		34
35	704		1	36	42	16	200	1.9	.2	84	12	0		35
36	705		1	36	40	14	120	1.9	.2	56	12	0		36
37	706		2	20	12	6	40	1.2	.2	32	10	0		37
38	707		1	6	4	2	40	0.5	.2	18	1	0		38
39	708		1	2	4	4	60	0.7	.2	14	0	0		39
40	G1		6	40	12	10	200	2.7	.4	112	20	0		40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: AMAX MINERALS EXPLORATION
535 THURLOW ST. VAN BC.

INVOICE NO.

PROJECT 79,

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78 FWT 756		10	56	76	58	240	3.4	.8	58	22			01
02														02
03														03
04														04
05														05

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: AMAX MINERALS EXPLORATION
535 THURLOW ST. VAN 5. B.C.

INVOICE NO. 8078

PROJECT 791 FISHOOK

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FWS 734		6	32	40	20	240	2.9	.4	100	18			01
02	735		4	24	34	16	220	2.5	.4	76	16			02
03	736		2	16	36	16	240	2.6	.4	68	20			03
04	737		1	20	32	12	200	2.0	.4	60	16			04
05	738		1	~~28~~ 28	20	12	460	1.1	.4	44	12			05
06	739		1	6	16	8	120	1.5	.2	40	8			06
07	740		2	22	40	20	360	2.8	.6	80	22			07
08	741		1	4	12	6	120	1.3	.2	28	8			08
09	742		2	38	80	28	900	3.8	.6	134	36			09
10	743		1	2	4	8	120	1.4	.2	20	6			10
11	744		12	10	24	28	60	0.4	.2	4	16			11
12	5745		1	8	10	6	100	1.1	.2	28	8			12
13	746		1	8	16	10	140	2.2	.4	70	16			13
14	747		1	16	24	12	180	2.1	.4	72	20			14
15	748		1	12	16	10	160	2.3	.4	48	16			15
16	749		1	8	8	6	120	1.6	.4	44	16			16
17	750		1	20	34	20	260	3.4	.6	116	26			17
18	751		2	16	20	12	200	2.9	.6	64	24			18
19	752		1	4	8	6	140	1.8	.4	34	16			19
20	753		1	6	8	8	120	1.8	.4	40	20			20
21	754		1	8	24	16	280	3.0	.4	76	24			21
22	755		1	6	16	12	160	2.7	.4	46	24			22
23														23
24														24
25														25
26														26
27														27
28														28

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC.
535 THURLOW ST. VANC.

PROJECT 791

CERTIFICATE NO. 8065
INVOICE NO. 8068
DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FB5238		1	26	42	22	360	3.3	.4	104	24			01
02	239		1	20	44	18	280	2.4	.4	88	20			02
03	240		1	36	24	12	200	1.4	.4	48	12			03
04	241		1	36	48	12	220	1.8	.4	104	16			04
05	242		1	36	68	20	360	3.4	.4	112	20			05
06	243		1	24	40	16	200	2.4	.4	80	12			06
07	244		1	40	26	12	640	.9	.4	32	8			07
08	245		1	92	52	12	120	.9	.2	40	8			08
09	246		6	44	56	26	520	3.2	.6	184	20			09
10	247		3	30	44	20	320	2.8	.4	100	24			10
11	248		2	32	44	20	360	2.7	.4	112	20			11
12	249		1	12	12	8	60	.8	.2	32	8			12
13	250		1	34	16	10	90	.7	4	46	8			13
14	251		1	40	28	12	340	1.1	.2	48	12			14
15	252		1	24	12	6	160	.4	.2	52	8			15
16	253		1	32	36	18	280	2.1	.4	72	16			16
17	254		1	12	12	10	80	1.5	.2	30	4			17
18	255		1	28	50	22	160	3.5	.4	84	20			18
19	256		1	16	20	12	140	2.5	.4	50	16			19
20	257		1	28	40	12	300	2.2	.4	96	16			20
21	258		1	30	38	16	260	2.1	.4	68	12			21
22	259		1	40	40	20	300	2.2	4	74	16			22
23	260		1	36	24	12	160	1.2	.4	58	12			23
24	261		1	26	28	16	140	2.9	.4	56	12			24
25	262		1	22	14	8	40	.8	.2	36	12			25
26	263		1	28	40	20	320	2.5	.4	88	20			26
27	265		1	36	38	20	380	2.4	.6	96	24			27
28	266		1	32	36	20	300	2.3	.4	90	20			28
29	267		1	28	32	16	300	2.1	.6	66	16			29
30	268		2	38	34	22	780	2.6	.6	84	24			30
31	269		2	26	20	10	200	1.2	.4	60	16			31
32	270		1	26	32	14	320	2.0	.4	72	20			32
33	271		2	22	34	16	180	2.1	.6	80	20			33
34	272		1	8	10	10	100	1.2	.4	20	6			34
35	273		4	42	24	50	2360	1.5	.4	60	16			35
36	274		1	20	20	12	100	1.2	.4	52	12			36
37	276		1	12	8	8	60	1.0	.4	20	6			37
38	277		2	14	18	12	100	1.7	.4	36	16			38
39	278		1	6	4	4	40	.9	.2	12	8			39
40	G 27		24	288	36	10	400	1.3	1.5	X	X			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

JUL 17 1978

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC.
535 THURLOW ST. VANC.

PROJECT 791

CERTIFICATE NO. 8065
INVOICE NO. 8068
DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	FBS 318		1	22	40	16	320	2.2	.4	116	16			01
02	319		2	36	30	12	80	.8	.4	60	10			02
03	320		1	12	12	8	120	.9	.2	28	4			03
04	321		2	52	28	12	100	1.1	.4	48	12			04
05	322		2	16	24	10	120	1.5	.4	60	16			05
06	323		4	32	40	16	180	2.3	.4	112	18			06
07	324		2	40	60	24	390	3.0	.6	132	24			07
08	325		2	44	56	20	300	2.6	.6	116	24			08
09	L 326		2	40	60	24	320	3.1	.6	132	24			09
10	S 327		4	36	52	20	280	2.8	.6	120	24			10
11	328		3	60	64	20	360	2.8	.8	132	24			11
12	329		3	44	60	24	320	2.7	.4	112	24			12
13	330		2	48	72	22	240	3.1	.6	116	24			13
14	331		4	50	64	22	240	2.9	.6	104	26			14
15	332		1	20	20	8	80	.9	.4	28	12			15
16	333		1	48	40	20	240	2.1	.4	128	16			16
17	334		2*	52	42	20	320	2.3	.6	80	20			17
18	335		2*	52	40	14	160	2.2	.6	72	16			18
19	336		4	64	48	18	200	2.7	.6	100	20			19
20	337		~~4~~ 4	52	50	16	180	2.2	.4	92	16			20
21	338		2	38	16	10	40	.7	.2	40	8			21
22	339		6	24	28	14	120	2.1	.6	68	16			22
23	340		4	24	32	14	120	2.0	.4	66	16			23
24	341		4	24	64	12	120	2.2	.4	58	14			24
25	343		2	22	28	14	120	2.2	.6	70	16			25
26	344		4	22	28	18	160	2.4	.4	72	20			26
27	345		2	56	12	10	40	.9	.2	16	8			27
28	347		2	12	4	8	40	.9	.4	20	6			28
29	348		2	44	22	12	120	1.7	.8	76	16			29
30	349		6	164	52	26	320	3.4	1.8	106	40			30
31	350		6	32	30	14	160	2.8	.4	60	24			31
32	351		4	20	20	12	120	1.7	.4	56	16			32
33	352		6	36	36	18	240	2.4	.6	104	20			33
34	353		56	60	336	20	200	2.8	.6	156	24			34
35	354		1	20	12	10	80	1.3	.4	36	10			35
~~36~~	~~355~~ MISSING								.4					~~36~~
~~37~~	~~356~~ A MISSING													~~37~~
~~38~~	357		1	30	60	24	300	3.4	.4	82	20			38
~~39~~	358		2	36	40	22	620	2.4	.4	88	16			39
~~40~~	G7		(34)	208	240	10	100	.9	.4	84	809			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(5)

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC.
535 THURLOW ST. VANC.

PROJECT 791

CERTIFICATE NO. 8065
INVOICE NO. 8068
DATE ANALYSED July 17/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8 FBS398		1	22	22	14	120	2.4	.4	48	20			01
02	399		2	16	20	12	120	2.0	.4	60	20			02
03	400		1	48	26	10	140	.4	.4	20	8			03
04	401		1	16	14	8	40	1.0	.2	16	10			04
05	402		1	34	60	20	480	3.2	.4	100	20			05
06	403		1	34	44	16	160	2.5	.4	64	20			06
07	404		1	20	38	18	220	2.5	.4	64	18			07
08	405		2	48	36	12	80	2.0	.4	56	16			08
09	406		1	28	24	12	80	1.3	.2	32	12			09
10	407		1	16	24	12	100	1.6	.2	36	12			10
11	408		1	14	20	12	160	2.3	.4	60	20			11
12	409		1	28	14	10	20	.6	.2	12	8			12
13	410		1	12	10	10	80	1.2	.2	24	6			13
14	411		1	10	6	8	40	1.1	.2	20	8			14
15	412		1	24	20	10	40	1.2	.2	24	10			15
16	413		1	12	12	8	100	1.8	.2	28	12			16
17	414		1	28	40	18	240	3.4	.6	84	20			17
18	415		2	20	22	12	120	2.1	.2	48	14			18
19	416		1	14	8	4	40	.8	.2	20	8			19
20	417		2	12	12	6	100	1.3	.2	20	8			20
21	418		1	8	10	10	80	1.3	.2	20	4			21
22	419		1	6	6	10	60	1.0	.2	14	4			22
23	420		1	14	20	12	160	2.8	.4	52	20			23
24	421		1	24	28	12	80	1.4	.6	52	24			24
25	422		1	52	68	30	380	4.4	.8	132	28			25
26	423		1	36	24	10	160	1.0	.4	44	12			26
27	424		1	48	4	6	60	1.1	.2	14	4			27
28	425		1	44	76	32	380	5.1	.6	98	24			28
29	C 426		1	128	96	40	440	2.0	.6	176	28			29
30	S 427		1	12	18	10	100	1.2	.2	20	12			30
31	C 428		1	32	76	28	460	3.5	.6	120	24			31
32	S 429		1	6	6	6	40	.7	.2	8	4			32
33	430		1	42	76	34	480	4.6	.6	148	28			33
34	431		2	36	48	22	220	3.2	.6	100	22			34
35	432		1	28	48	22	280	3.2	.6	108	20			35
36	433		2	44	36	12	200	2.0	.4	76	16			36
37	C 434		2	38	54	26	320	3.3	.6	112	20			37
38	S 435		2	48	56	24	300	3.2	.6	116	24			38
39	436		1	38	50	20	240	2.8	.4	108	24			39
40	G-27		24	284	36	8	420	1.2	1.5	X	X			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(1)

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC. 535 THURLOW ST. Vanc.

PROJECT 791

CERTIFICATE NO. 8065

INVOICE NO. 8068

DATE ANALYSED July 1/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FB5476		1	32	24	32	2000	1.8	.4	56	20			01
02	477		1	22	40	26	420	3.4	.6	112	28			02
03	478		1	30	52	30	660	4.0	.6	124	28			03
04	479		1	24	58	34	600	4.2	.6	132	24			04
05	480		1	26	44	26	560	3.5	.6	104	20			05
06	481		2	24	54	30	500	3.9	.4	128	24			06
07	482		3	24	52	30	480	3.9	.4	128	28			07
08	483		2	24	32	16	280	2.8	.4	60	20			08
09	484		1	32	36	16	200	2.2	.6	60	16			09
10	485		2	46	60	30	540	5.0	.6	136	32			10
11	486		2	68	88	34	520	4.7	.6	156	32			11
12	487		2	6	8	10	100	1.5	.2	24	4			12
13	488		1	30	38	20	500	2.3	.4	72	16			13
14	489		1	20	30	18	440	2.0	.4	64	12			14
15	490		1	8	6	8	60	1.1	.2	20	4			15
16	FBT 264		20	44	80	60	200	2.6	.6	36	20			16
17	275		16	26	80	52	200	4.6	.6	100	20			17
18	342		10	32	62	42	220	2.6	1.0	84	32			18
19	346		14	30	36	34	140	4.2	.6	104	32			19
20	S355		2	10	6	6	60	1.0	.2	20	4			20
21	T356		44	14	36	38	40	0.8	.2	20	4			21
22	S357A		4	6	4	4	40	0.8	.2	16	2			22
23	G7		36	200	248	10	100	1.0	.6	80	68			23
24														24
25														25
26														26
27														27
28														28
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

5

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: Amax Minerals Exploration
635 Thurlow St. Vanc. B.C.

INVOICE NO. 8078

PROJECT 791

DATE ANALYSED July 1/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	F	No.
01	78FB5531		2	26	20	10	120	1.5	.4	48	10	0		01
02	532		2	14	12	8	240	0.9	.2	40	8	0		02
03	533		2	10	8	4	200	0.7	.4	42	4	0		03
04	534		2	24	16	8	80	1.2	.4	50	8	0		04
05	535		4	80	68	20	160	2.5	.6	128	16	0		05
06	536		4	64	60	20	200	2.7	.6	136	18	0		06
07	537		6	70	60	22	400	2.6	.4	160	18	0		07
08	538		2	58	44	16	880	1.9	.4	180	12	0		08
09	539		1	16	12	6	40	0.2	.2	36	8	0	IN	09
10	540		2	14	12	4	40	0.5	.2	24	4	0		10
11	541		1	16	36	8	120	1.8	.2	48	10	0		11
12	542		2	28	66	20	160	2.5	.4	64	18	0		12
13	543		1	16	32	12	260	1.7	.4	48	12	0		13
14	544		1	16	34	20	280	2.0	.4	40	12	0		14
15	545		1	6	8	4	40	0.7	.2	10	2	0		15
16	546		1	10	10	8	80	0.8	.2	12	4	0		16
17	547		1	22	50	16	320	2.1	.4	48	16	0		17
18	548		1	10	14	8	60	1.0	.2	20	4	0		18
19	549		2	40	72	32	320	4.6	.2	88	24	0		19
20	550		2	38	64	24	480	3.1	.4	116	20	0		20
21	551		2	28	44	20	520	2.9	.4	132	28	0		21
22	552		2	26	32	16	320	2.0	.4	60	16	0		22
23	553		2	26	40	36	160	3.3	.4	100	20	0		23
24	554		2	28	38	24	400	2.9	.4	90	20	0		24
25	555		1	18	30	20	360	2.9	.4	80	20	0		25
26	556		2	28	44	20	640	3.1	.4	100	20	0		26
27	557		1	40	44	28	380	3.4	.4	96	22	0		27
28	558		1	20	42	24	400	3.2	.4	100	20	0		28
29	559		1	24	48	24	360	2.9	.4	92	20	0		29
30	560		1	20	44	28	840	2.8	.4	90	16	0		30
31	561		1	40	40	230	x1400	4.9	.6	64	64	0		31
32	562		2	20	40	28	540	3.1	.4	100	24	0		32
33	L 563		2	32	46	30	560	3.5	.4	116	24	0		33
34	S 564		1	22	30	18	400	2.2	.4	60	12	0		34
35	565		1	38	44	20	240	2.9	.4	104	20	IN.		35
36	566		2	28	44	24	520	3.7	.4	112	20	0		36
37	567		2	28	48	26	400	3.7	.4	116	24	0		37
38	568		1	48	20	10	300	0.7	.4	66	14	IN.		38
39	569		1	38	52	32	440	3.6	.4	116	20	0		39
40	G7		30	196	220	10	100	0.9	.5	80	64	0		40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(1)A

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077
INVOICE NO. 8078
DATE ANALYSED July/78

TO: AMAX MINERALS EXPLORATION
535 THURLOW ST. VAN 5, BC.
PROJECT 791 FISHOOK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78FBS590		4	20	26	12	300	2.3	.4	76	16			01
02	591		3	12	18	10	300	1.9	.4	56	14			02
03	592		2	14	18	10	200	1.8	.4	50	12			03
04	593		2	16	20	8	200	1.8	.4	48	14			04
05	594		1	12	16	8	200	1.6	.2	48	~~12~~ 8			05
06	595		3	4	8	4	120	1.2	.2	24	12			06
07	596		1	2	2	1	40	0.4	.2	6	~~12~~ 2			07
08	597		1	16	30	16	180	3.8	.4	64	18			08
09	598		3	12	18	8	200	2.0	.4	48	14			09
10	599		4	24	24	12	240	2.3	.4	72	16			10
11	600		3	22	26	12	240	2.2	.4	80	18			11
12	601		4	30	34	14	220	2.7	.6	108	20			12
13	602		3	32	34	14	240	2.4	.6	92	18			13
14	L 603		2	24	28	14	320	2.1	.4	80	16			14
15	S 604		3	28	36	16	360	2.6	.6	98	20			15
16	605		4	32	36	16	400	2.8	.4	104	20			16
17	606		4	26	36	16	320	2.7	.4	104	18			17
18	607		1	8	12	12	160	1.8	.4	36	4			18
19	T 608		26	20	70	40	120	2.2	.4	72	24			19
20	S 609		4	24	30	16	200	2.5	.4	88	18			20
21	610		2	10	12	6	80	2.1	.4	36	12			21
22	611		3	20	30	12	200	2.8	.8	64	16			22
23	612		2	20	20	8	160	2.3	.4	48	16			23
24	613		6	92	110	40	360	2.8	1.0	480	28			24
25	614		5	54	48	12	120	1.9	.4	264	16			25
26	615		1	14	8	4	80	1.0	.4	24	2			26
27	616		4	72	90	32	240	2.2	.6	388	20			27
28	617		2	6	12	8	120	1.6	.2	40	2			28
29	618		1	10	8	6	60	1.6	.2	36	6			29
30	619		1	16	6	2	40	0.8	.8	20	4			30
31	620		1	16	24	8	160	1.6	.4	84	16			31
32	621		3	52	44	20	760	1.8	.6	110	12			32
33	622		2	10	14	4	80	1.0	.2	32	4			33
34	623		1	12	36	8	140	1.8	.4	40	10			34
35	624		1	8	8	4	80	1.2	.2	30	6			35
36	625		1	12	8	4	80	0.6	.2	12	4			36
37	626		2	30	16	4	200	0.4	.4	76	8			37
38	627		1	20	20	8	280	1.3	.4	48	10			38
39	628		1	4	4	2	60	0.6	.2	16	6			39
40	G1		6	38	12	12	200	2.4	.4	108	26			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu	Pb	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8 FB5632		*2	24	22	10	1200	0.6	.4	92	18			01
02	633		*2	20	20	8	100	1.6	.4	64	12			02
03	634		*2	32	34	12	1820	1.2	.8	116	18			03
04	635		2	24	60	22	860	2.4	.6	116	20			04
05	636		*2	20	18	18	1500	1.6	.4	42	10			05
06	637		2	22	32	12	260	2.1	.4	60	16			06
07	638		2	22	24	16	660	1.9	.4	52	16			07
08	639		2	14	16	8	340	1.6	.4	30	8			08
09	640		2	24	52	20	960	2.6	.4	76	16			09
10	641		1	20	30	10	200	2.1	.4	60	14			10
11	642		1	4	4	4	60	0.8	.2	16	2			11
12	643		1	10	14	8	120	1.6	.2	44	12			12
13	644		1	20	10	6	80	1.4	.4	26	14			13
14	645		2	24	44	14	200	3.1	.6	76	16			14
15	646		2	20	22	12	200	2.7	.4	60	16			15
16	647		2	26	16	6	60	1.0	.4	36	10			16
17	648		2	40	48	26	460	4.7	.4	144	22			17
18	649		2	20	28	12	200	2.8	.4	68	14			18
19	650		1	10	4	4	60	1.1	.2	20	2			19
20	651		1	2	2	4	20	0.9	.2	12	.2			20
21	652		2	20	32	12	280	2.8	.2	68	20			21
22	653		1	12	12	8	180	2.0	.2	36	12			22
23	654		1	6	4	6	140	1.6	.2	26	2			23
24	655		1	12	20	10	180	2.1	.4	36	16			24
25	656		1	8	6	6	120	1.5	.4	24	8			25
26	657		1	26	6	4	80	0.8	.2	22	8			26
27	658		1	22	38	10	200	1.9	.4	60	16			27
28	659		1	30	46	18	420	3.2	.6	120	22			28
29	660		1	26	40	16	320	2.4	.4	80	12			29
30	661		1	20	36	12	220	1.9	.4	58	10			30
31	662		1	28	66	36	1360	3.4	.6	142	28			31
32	663		1	10	14	8	160	2.1	.4	44	12			32
33	664		1	16	16	10	180	2.8	.4	52	14			33
34	665		1	18	20	12	260	2.6	.4	54	18			34
35	666		1	12	10	6	140	1.8	.4	32	12			35
36	667		1	8	8	4	140	1.6	.2	30	14			36
37	668		2	40	52	20	360	3.3	.4	138	16			37
38	669		2	28	60	20	480	3.3	.4	112	20			38
39	670		2	40	60	20	520	3.2	.4	98	16			39
40	G-1		6	38	12	10	240	2.6	.4	106	20			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	As	Zn	Pb			No.
01	8FBS710		1	24	18	8	260	1.2	.4	40	10			01
02	711		1	32	20	8	480	0.6	.2	80	10			02
03	712		1	28	24	16	340	1.6	.2	60	14			03
04	713		1	20	22	16	220	2.0	.2	52	22			04
05	714		1	16	20	12	300	2.3	.4	56	16			05
06	715		1	32	32	18	340	2.4	.4	64	18			06
07	716		1	8	20	6	100	0.5	.2	32	10			07
08	717		1	12	76	20	480	2.5	.4	76	16			08
09	718		1	52	90	24	680	3.1	.4	96	14			09
10	719		1	32	18	6	220	0.9	.2	20	8			10
11	720		1	60	68	20	420	3.0	.4	68	14			11
12	721		1	32	26	12	260	0.9	.2	40	6			12
13	722		1	8	12	6	140	1.1	.2	24	4			13
14	723		1	32	44	20	320	4.1	.4	84	20			14
15	724		1	28	40	18	260	3.4	.4	80	18			15
16	725		1	32	52	20	400	2.9	.4	112	18			16
17	726		1	4	8	2	160	0.9	.2	18	2			17
18	727		1	16	20	12	680	1.1	.2	40	8			18
19	728		1	32	40	18	460	2.9	.6	84	16			19
20	729		1	28	48	24	660	4.4	.4	128	20			20
21	730		1	24	30	16	340	2.2	.2	60	12			21
22	731		1	28	48	24	560	3.7	.4	108	22			22
23	732		1	39	40	18	900	2.1	.4	60	16			23
24	733		1	60	44	32	560	2.5	.6	76	18			24
25	734		1	18	24	10	340	2.1	.4	52	10			25
26	735		1	22	10	2	80	0.5	.2	12	4			26
27	736		1	16	12	8	160	2.3	.2	34	12			27
28	737		1	12	12	8	120	2.0	.2	40	10			28
29	738		1	20	30	12	220	4.1	.4	72	22			29
30	739		1		2	2	60	0.5	.2	8	2			30
31	740		1	10	12	8	140	1.8	.2	34	8			31
32	741		1	24	42	14	280	2.7	.2	80	16			32
33	742		1	34	28	18	180	0.9	.4	42	8			33
34	743		1	68	52	26	660	14	.6	60	6			34
35	744		1	28	10	6	100	1.0	.2	20	6			35
36	745		1	50	40	22	620	4.5	.4	136	14			36
37	746		1	12	10	8	100	1.6	.2	36	12			37
38	747		1	20	26	14	400	2.2	.6	160	14			38
39	748		1	8	8	4	160	0.9	.2	28	6			39
40	G-1		6	44	12	12	220	2.6	.4	112	22			40

Certified by C. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 80 68

TO: Amax Minerals Exploration
535 Thurlow St. Vancouver B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	RFBS 788		1	8	6	6	120	0.9	.2	~~12~~ 14	8			01
02	789		1	24	24	14	420	1.2	.4	78	16			02
03	790		1	8	12	4	80	1.2	.2	24	6			03
04	791		1	4	8	4	60	0.9	.2	20	6			04
05	792		1	8	10	6	100	1.1	.2	20	6			05
06	793		1	28	40	22	460	3.8	.4	98	28			06
07	794		1	28	32	20	580	2.1	.4	104	20			07
08	795		1	10	4	2	140	0.3	.2	100	6			08
09	796		1	24	48	22	1520	2.8	.4	110	20			09
10	797		1	20	30	20	460	2.5	.4	104	22			10
11	798		1	2	4	2	100	0.7	.2	12	2			11
12	799		1	32	38	18	560	2.4	.4	100	22			12
13	800		1	28	44	24	600	3.4	.6	144	28			13
14	801		1	12	24	14	280	3.2	.4	60	22			14
15	802		1	12	12	4	160	1.8	.2	38	12			15
16	803		1	4	2	2	80	0.8	.2	14	4			16
17	804		1	12	10	4	140	0.7	.2	20	4			17
18	805		1	24	60	26	3160	3.6	.4	116	24			18
19	806		1	28	50	22	560	3.5	.4	180	24			19
20	807		1	20	38	18	1040	2.5	.4	144	22			20
21	808		1	32	46	20	520	2.8	.4	172	18			21
22	809		1	44	52	20	480	3.0	.6	228	20			22
23	810		1	24	24	12	240	1.8	.4	56	14			23
24	811		1	12	10	10	260	1.0	.4	68	8			24
25	812		1	32	42	20	460	3.2	.6	126	24			25
26	813		1	14	18	10	160	1.0	.4	50	8			26
27	814		1	24	44	18	420	2.5	.4	96	24			27
28	815		1	18	46	16	400	2.2	.2	96	22			28
29	816		1	26	48	20	620	3.1	.4	110	22			29
30	817		1	24	36	18	360	2.5	.4	108	20			30
31	818		1	20	30	12	320	1.9	.4	76	16			31
32	819		1	30	48	20	360	3.2	.6	114	24			32
33	820		1	44	42	18	180	1.7	.6	76	14			33
34	821		1	22	32	12	280	2.7	.4	110	16			34
35	822		1	26	36	12	260	2.6	.4	96	18			35
36	823		1	20	28	14	320	3.4	.2	86	28			36
37	824		1	16	24	12	140	1.8	.2	78	14			37
38	825		1	32	44	20	320	3.2	.4	128	20			38
39	826		1	52	40	16	260	2.2	.6	114	16			39
40	G-7		(18)	284	270	10		1.3	.4					40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FRS866		1	10	10	8	160	1.3	.6	32	10			01
02	867		1	12	24	14	280	2.6	.4	76	16			02
03	868		1	20	30	18	320	3.9	.4	110	20			03
04	869		1	24	12	8	80	1.3	.2	24	6			04
05	870		1	14	22	10	140	1.8	.2	40	12			05
06	871		1	16	12	8	140	1.9	.2	32	10			06
07	872		1	4	4	2	20	0.9	.2	8	2			07
08	873		1	14	20	16	220	3.8	.4	68	20			08
09	874		1	12	14	10	160	2.3	.4	52	16			09
10	875		1	26	18	12	160	2.1	.6	44	18			10
11	876		1	26	30	14	240	3.4	.4	68	18			11
12	877		1	12	14	8	100	2.0	.2	32	12			12
13	878		1	20	30	16	200	3.5	.2	58	18			13
14	879		1	12	18	12	140	2.7	.2	44	16			14
15	880		1	14	16	12	160	1.9	.4	38	16			15
16	881		1	30	16	18	720	1.4	.4	24	12			16
17	882		1	10	10	6	100	1.3	.2	26	6			17
18	883		1	12	16	10	160	2.0	.8	120	16			18
19	884		1	10	8	4	20	1.0	.6	20	8			19
20	885		1	64	32	14	240	1.7	1.0	130	14			20
21	886		1	4	6	4	60	0.8	.2	14	2			21
22	887		1	28	32	20	400	2.4	.6	152	26			22
23	888		1	30	26	14	180	2.1	.8	64	14			23
24	889		1	8	6	4	40	0.8	.6	20	6			24
25	890		1	16	14	8	200	1.6	.6	66	40			25
26	891		1	16	12	6	100	1.0	.4	32	12			26
27	892		1	36	44	32	780	5.6	.6	168	34			27
28	893		2	34	46	30	760	2.9	.4	100	30			28
29	894		2	56	58	24	400	3.2	.6	128	24			29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40	G 1		6	38	14	12	240	2.6	.4	100	22			40

Certified by F. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	SFRS 934		1	8	8	6	100	0.8	.4	12	4			01
02	935		4	20	30	12	220	2.6	.6	60	16			02
03	936		2	10	10	6	100	1.4	.2	24	12			03
04	937		1	12	22	14	260	2.6	.4	52	14			04
05	938		2	20	34	18	300	3.3	.4	84	20			05
06	939		1	22	40	20	420	3.5	.6	94	22			06
07	940		1	10	12	4	140	1.1	.4	16	2			07
08	941		1	8	10	6	106	1.2	.4	20	2			08
09	942		1	18	30	14	220	2.7	.6	58	14			09
10	943		1	24	22	14	300	2.3	.4	40	14			10
11	944		1	2	6	2	40	0.7	.2	8	2			11
12	945		1	6	8	4	60	1.2	.2	12	4			12
13	946		1	14	14	8	240	1.8	.4	44	8			13
14	947		1	28	22	10	340	1.6	.4	60	12			14
15	948		1	6	12	10	1000	1.2	.2	36	4			15
16	949		1	12	32	16	220	3.0	.4	60	16			16
17	950		1	18	14	18	240	3.0	.4	64	18			17
18	951		1	20	16	6	120	1.3	.4	24	10			18
19	952		1	20	22	12	240	2.9	.6	66	20			19
20	953		1	16	16	6	100	1.2	.2	20	8			20
21	954		1	16	24	12	160	1.7	.4	28	12			21
22	955		2	40	38	16	200	2.9	.4	30	18			22
23	956		1	4	4	6	80	1.0	.2	12	2			23
24	957		1	14	24	12	180	1.8	.2	28	8			24
25	958		1	6	10	8	140	1.2	.2	16	6			25
26	959		1	24	36	18	540	2.9	.6	104	26			26
27	960		1	52	66	26	520	3.8	.6	196	40			27
28	961		1	40	36	18	320	2.7	.6	70	22			28
29	962		1	8	18	10	260	1.3	.2	28	10			29
30	963		1	26	32	16	240	2.4	.4	48	16			30
31	964		1	14	32	16	420	3.4	.6	78	12			31
32	965		2	92	228	46	1080	5.3	.6	88	20			32
33	966		1	22	32	14	220	2.8	.4	48	20			33
34	967		1	16	28	16	220	2.8	.4	46	18			34
35	968		1	18	46	20	360	4.2	.4	64	20			35
36	969		1	10	18	12	160	2.2	.4	36	6			36
37	970		1	24	28	12	280	2.7	.6	56	18			37
38	971		1	32	38	24	420	4.1	.6	100	26			38
39	972		1	18	20	12	260	2.8	.4	60	16			39
40	G7		32	184	240	10	100	1.0	.4	76	68			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

INVOICE NO.

DATE ANALYSED Aug/78

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

PROJECT 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8 FRS 1012		1	8	8	4	80	1.1	.2	20	6			01
02	1013		1	48	46	28	340	4.8	.4	100	22			02
03	1014		1	1	8	4	100	1.3	.2	20	4			03
04	1015		1	20	46	14	200	2.5	.4	48	12			04
05	1016		1	4	8	4	60	1.0	.2	12	2			05
06	1017		1	6	8	10	140	1.3	.2	22	2			06
07	1018		1	8	12	8	140	1.3	.2	26	6			07
08	1019		1	1	8	12	120	2.0	.2	28	2			08
09	1020		1	16	32	20	340	3.6	.6	84	24			09
10	1021		1	10	20	14	200	2.7	.4	44	20			10
11	1022		1	26	20	14	360	2.0	.4	100	12			11
12	1023		1	20	28	18	480	2.6	.6	64	22			12
13	1024		1	24	44	20	280	3.0	.4	68	18			13
14	1025		1	8	6	4	80	0.8	.2	16	4			14
15	1026		1	92	32	10	460	0.7	.4	20	4			15
16	1027		1	52	28	12	300	1.3	.2	32	6			16
17	1028		2	60	76	32	520	3.5	.6	88	62			17
18	1029		2	70	38	16	400	2.0	.4	54	12			18
19	1030		1	34	16	6	200	0.6	.4	42	6			19
20	1031		1	24	32	22	300	2.7	.4	42	8			20
21	1032		1	24	12	10	380	1.2	.4	24	12			21
22	1033		1	24	32	16	260	2.4	.4	60	12			22
23	1034		1	16	12	12	280	1.7	.2	30	6			23
24	1035		1	18	20	10	200	1.8	.2	24	6			24
25	1036		1	70	100	20	380	2.0	.4	56	12			25
26	1037		1	124	96	88	1120	5.3	1.6	>640	342			26
27														27
28														28
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

Certified by C. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(14)

CERTIFICATE OF ANALYSIS

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

CERTIFICATE NO. 8134

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 9/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS1750	✓							.2	12	6	✓		01
02	1751	✓							.4	96	20	✓		02
03	1752	✓							.6	126	30	✓		03
04	1753	✓							.4	90	20	✓		04
05	1754	✓							.2	36	8	✓		05
06	1755	✓							.4	110	24	✓		06
07	1756	✓							.4	88	22	✓		07
08	1757	✓							.4	80	20	✓		08
09	1758	✓							.4	30	6	✓		09
10	1759	✓							.4	92	10	✓		10
11	1760	✓							.6	110	22	✓		11
12	1761	✓							.4	146	24	✓		12
13	1762	✓							.6	52	32	✓		13
14	1763	✓							.2	44	20	✓		14
15	1764	✓							.4	32	20	✓		15
16	1765	✓							.2	20	10	✓		16
17	1766	✓							.2	18	10	✓		17
18	1767	✓							.2	72	6	✓		18
19	1768	✓							.4	40	14	✓		19
20	1769	✓							.4	120	12	✓		20
21	1770	✓							.4	60	24	✓		21
22	1771	✓							.4	50	20	✓		22
23	1772	✓							.2	80	10	✓		23
24	1774	✓							2	108	16	✓		24
25	1775	✓							.6	96	22	✓		25
26	1776	✓							.6	140	20	✓		26
27	1777	✓							.6	96	28	✓		27
28	1778	✓							.4	106	24	✓		28
29	1779	✓							.4	110	20	✓		29
30	1780	✓							.6	46	26	✓		30
31	1781	✓							.4	46	16	✓		31
32	1782	✓							.4	52	10	✓		32
33	1783	✓							.4	36	10	✓		33
34	1784	✓							.4	32	16	✓		34
35	1785	✓							.4	80	12	✓		35
36	1786	✓							.4	40	6	✓		36
37	1787	✓							.4	70	14	✓		37
38	1788	✓							.4	110	16	✓		38
39	1789	✓							.4	110	20	✓		39
40	G 6								3.0	360	400			40

Certified by C. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(16)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS1829	✓							.6	66	20	✓		01
02	1830	✓							.4	64	18	✓		02
03	1831	✓							.6	100	22	✓		03
04	1832	✓							.4	96	20	✓		04
05	1833	✓							.4	92	22	✓		05
06	1834	✓							.4	86	22	✓		06
07	1835	✓							.6	88	22	✓		07
08	1836	✓							.4	78	20	✓		08
09	1837	✓							.4	66	16	✓		09
10	1838	✓							.4	72	16	✓		10
11	1839	✓							.4	66	14	✓		11
12	1840	✓							.2	16	2	✓		12
13	1841	✓							.2	26	4	✓		13
14	1842	✓							.2	18	2	✓		14
15	1843	✓							.2	84	12	✓		15
16	1844	✓							.2	18	8	✓		16
17	1845	✓							.2	38	6	✓		17
18	1846	✓							.4	82	16	✓		18
19	1847	✓							.4	42	12	✓		19
20	1848	✓							.2	20	8	✓		20
21	1849	✓							.2	12	4	✓		21
22	1850	✓							.2	18	10	✓		22
23	1851	✓							.2	32	14	✓		23
24	1852	✓							.2	50	18	✓		24
25	1853	✓							.2	42	12	✓		25
26	1854	✓							.2	14	2	✓		26
27	1855	✓							.6	24	12	✓		27
28	1856	✓							.4	64	16	✓		28
29	1857	✓							.6	92	24	✓		29
30	1858	✓							.4	116	20	✓		30
31	1859	✓							.4	110	20	✓		31
32	1860	✓							.2	60	18	✓		32
33	1861	✓							.2	32	8	✓		33
34	1862	✓							.2	14	6	✓		34
35	✓1863								.8	108	30	✓		35
36	✓1864								.6	89	28	✓		36
37	✓1865								.4	70	24	✓		37
38	✓1866								.4	66	20	✓		38
39	✓1867								.6	130	24	✓		39
40	G 1								.4	100	24	✓		40

Certified by G. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(18)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8131

TO: Amax Minerals Exploration
635 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Sept 8/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS1907	✓							.6	210	14	✓		01
02	1908	✓							.2	22	8	✓		02
03	1909	✓							.2	20	4	✓		03
04	1910	✓							.6	106	20	✓		04
05	1911	✓							.2	20	6	✓		05
06	1912	✓							.4	60	10	✓		06
07	1913	✓							.6	116	24	✓		07
08	1914	✓							.6	120	20	✓		08
09	1915	✓							.2	32	8	✓		09
10	1916	✓							.2	8	2	✓		10
11	1917	✓							.4	12	2	✓		11
12	1918	✓							.2	14	4	✓		12
13	1914	✓							.4	14	2	✓		13
14	1920	✓							.4	24	4	✓		14
15	1921	✓							.6	124	16	✓		15
16	1922	✓							.2	32	4	✓		16
17	1923	✓							.6	176	16	✓		17
18	1924	✓							.6	130	8	✓		18
19	1925	✓							.4	208	10	✓		19
20	1926	✓							.4	168	16	✓		20
21	1927	✓							.2	84	6	✓		21
22	1928	✓							.6	160	16	✓		22
23	1929	✓							.6	72	8	✓		23
24	1930	✓							.6	70	14	✓		24
25	1931	✓							.6	120	18	✓		25
26	1932	✓							.6	110	16	✓		26
27	1933	✓							.6	116	16	✓		27
28	1934	✓							.6	106	16	✓		28
29	1935	✓							.6	136	12	✓		29
30	1936	✓							.6	140	16	✓		30
31	1937	✓							.2	50	10	✓		31
32	1938	✓							.4	78	14	✓		32
33	1939	✓							.4	130	18	✓		33
34	1940	✓							.2	80	6	✓		34
35	1941	✓							.2	12	2	✓		35
36	1942	✓							.4	80	14	✓		36
37	1943	✓							.6	132	26	✓		37
38	1944	✓							.6	116	20	✓		38
39	1945	✓							.6	108	18	✓		39
40	G 27								1.2	490	>400			40

Certified by L. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(19)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 78

No.	Sample	pH	Mo	Cu	.	.	.	Ag	Zn	Pb				No.
01	78F-BS1946	✓						.6	150	30	✓			01
02	1947	✓						.4	100	20	✓			02
03	1948	✓						.6	88	26	✓			03
04	1949	✓						.4	60	18	✓			04
05	1950	✓						.4	80	22	✓			05
06	1951	✓						.2	24	8	✓			06
07	1952	✓						.2	18	6	✓			07
08	1953	✓						.2	64	16	✓			08
09	1954	✓						.2	50	16	✓			09
10	1955	✓						.2	10	4	✓			10
11	1956	✓						.4	26	10	✓			11
12	1957	✓						.4	68	18	✓			12
13	1958	✓						.2	26	8	✓			13
14	1959	✓						.4	32	10	✓			14
15	1960	✓						.4	84	26	✓			15
16	1961	✓						.4	70	18	✓			16
17	1962	✓						.2	10	2	✓			
18	1963	✓						.4	112	22	✓			18
19	1964	✓						.2	54	14	✓			19
20	1965	✓						.2	56	16	✓			20
21	1966	✓						.4	80	20	✓			21
22	1967	✓						.4	60	16	✓			22
23	1968	✓						.4	76	18	✓			23
24	1969	✓						.4	82	20	✓			24
25	1970	✓						.4	74	14	✓			25
26	1971	✓						.6	60	14	✓			26
27	1972	✓						.4	86	20	✓			27
28	1973	✓						.4	78	16	✓			28
29	1974	✓						.2	46	10	✓			29
30	1975	✓						.4	100	20	✓			30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														
39														
40	E 27							.8	400	320				40

Certified by T. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(17)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS1868								.4	14	16	✓		01
02	1869								.2	42	12	✓		02
03	1870								.6	86	26	✓		03
04	1871								.4	250	12	✓		04
05	1872								.2	710	6	✓		05
06	1873								.6	900	24	✓		06
07	1874								.2	14	4	✓		07
08	1875								.2	12	4	✓		08
09	1876								.2	60	4	✓		09
10	1877								.2	16	2	✓		10
11	1878								.2	52	6	✓		11
12	1879								.4	28	8	✓		12
13	1880								.2	32	8	✓		13
14	1881								.4	94	18	✓		14
15	1882								.2	134	10	✓		15
16	1883								.6	200	20	✓		16
17	1884								.4	136	18	✓		
18	1885								.6	96	22	✓		18
19	1886								.6	116	24	✓		19
20	1887								.4	76	16	✓		20
21	1888								.4	96	20	✓		21
22	1889								.2	56	12	✓		22
23	1890								.2	24	6	✓		23
24	1841								.4	70	14	✓		24
25	1842								.4	156	20	✓		25
26	1843								.4	150	18	✓		26
27	1844								.4	120	16	✓		27
28	1845								.2	46	12	✓		28
29	1846								.2	50	14	✓		29
30	1897								.4	116	26	✓		30
31	1898								.2	72	8	✓		31
32	1894								.2	24	4	✓		32
33	1900								.4	114	18	✓		33
34	1401								.2	22	4	✓		34
35	1402								.2	20	2	✓		35
36	1903								.4	56	22	✓		36
37	1404								.2	16	8	✓		37
38	1405								.4	110	24	✓		
39	1906								.4	136	22	✓		39
40	[illegible]								.4	78	18			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(15)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St, Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 8/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS1790	✓							.4	110	20	✓		01
02	1791	✓							.4	112	22	✓		02
03	1792	✓							.4	92	18	✓		03
04	1793	✓							.4	104	16	✓		04
05	1794	✓							.2	94	14	✓		05
06	1795	✓							.4	84	18	✓		06
07	1796	✓							.6	104	18	✓		07
08	1797	✓							.4	88	16	✓		08
09	1798	✓							.4	104	16	✓		09
10	1799	✓							.2	92	8	✓		10
11	1800	✓							.4	80	12	✓		11
12	1801	✓							.2	24	4	✓		12
13	1802	✓							.2	36	10	✓		13
14	1803	✓							.2	26	6	✓		14
15	1804	✓							.4	84	16	✓		15
16	1805	✓							.2	32	8	✓		16
17	1806	✓							.4	110	20	✓		
18	1807	✓							.6	96	18	✓		18
19	1808	✓							.6	164	28	✓		19
20	1809	✓							.4	80	18	✓		20
21	1810	✓							.4	120	22	✓		21
22	1811	✓							.4	100	24	✓		22
23	1812	✓							.2	92	16	✓		23
24	1813	✓							.2	136	18	✓		24
25	1814	✓							.2	48	10	✓		25
26	1815	✓							.6	76	14	✓		26
27	1816	✓							.4	104	16	✓		27
28	1817	✓							.4	94	18	✓		28
29	1818	✓							.4	88	16	✓		29
30	1819	✓							.4	76	14	✓		30
31	1820	✓							.2	32	8	✓		31
32	1821	✓							.4	80	14	✓		32
33	1822	✓							.2	76	12	✓		33
34	1823	✓							.2	60	4	✓		34
35	1824	✓							.2	56	8	✓		35
36	1825	✓							.4	76	12	✓		36
37	1826	✓							.4	64	10	✓		37
38	1827	✓							.2	56	10	✓		
39	1828	✓							.2	80	12	✓		39
40	STD								.4	78	60			40

Certified by L. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(13)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van, B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT/78

No.	Sample	pH	Mo	Cu					Pb	Zn	Pb			No.
01	78FBS1711	✓							.6	46	14	✓		01
02	1712	✓							.2	36	6	✓		02
03	1713	✓							.2	60	14	✓		03
04	1714	✓							.4	80	18	✓		04
05	1715	✓							.2	12	2	✓		05
06	1716	✓							.6	90	20	✓		06
07	1717	✓							.2	50	6	✓		07
08	1718	✓							.4	110	12	✓		08
09	1719	✓							.4	34	8	✓		09
10	1720	✓							.4	32	8	✓		10
11	1721	✓							.2	36	8	✓		11
12	1722	✓							.4	80	26	✓		12
13	1723	✓							.4	66	24	✓		13
14	1724	✓							.6	90	32	✓		14
15	1725	✓							.4	66	20	✓		15
16	1726	✓							.6	64	18	✓		16
17	1727	✓							.4	60	20	✓		
18	1728	✓							.6	76	22	✓		18
19	1729	✓							.4	56	16	✓		19
20	1730	✓							.4	48	12	✓		20
21	1731	✓							.2	120	10	✓		21
22	1732	✓							.4	70	18	✓		22
23	1733	✓							.4	86	24	✓		23
24	1734	✓							.6	86	24	✓		24
25	1735	✓							.2	38	10	✓		25
26	1736	✓							.6	90	24	✓		26
27	1737	✓							.6	78	20	✓		27
28	1738	✓							.4	78	22	✓		28
29	1739	✓							.6	90	22	✓		29
30	1740	✓							.4	50	12	✓		30
31	1741	✓							.6	104	26	✓		31
32	1742	✓							.6	90	26	✓		32
33	1743	✓							.6	98	26	✓		33
34	1744	✓							.4	56	22	✓	←	34
35	1745	✓							.4	90	22	✓		35
36	1746	✓							.4	90	22	✓		36
37	1747	✓							.4	82	28	✓		37
38	1748	✓							.4	76	20	✓		
39	1749	✓							.4	50	14	✓		39
40	STD								2.2	320	400			40

*Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

10

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FBS 973		1	8	10	8	100	1.0	.2	16	8			01
02	974		1	4	6	6	160	0.8	.2	12	6			02
03	975		3	16	20	14	200	2.5	.4	44	20			03
04	976		1	20	16	12	260	2.2	.2	48	14			04
05	977		1	20	20	14	180	2.0	.4	44	14			05
06	978		1	6	10	10	140	1.3	.2	20	6			06
07	979		1	32	42	14	280	1.6	.2	40	12			07
08	980		1	28	34	12	200	1.6	.2	32	10			08
09	981		2	40	60	20	340	1.8	.4	40	16			09
10	982		1	52	26	8	160	0.7	.4	36	12			10
11	983		1	32	10	10	1160	0.9	.2	16	6			11
12	984		1	16	22	12	240	1.5	.2	28	6			12
13	985		1	14	30	16	340	2.4	.4	88	20			13
14	986		1	12	28	12	300	2.1	.4	52	12			14
15	987		1	44	32	20	760	2.4	.4	58	20			15
16	988		2	14	32	16	360	2.8	.4	60	20			16
17	989		1	8	20	8	180	1.3	.2	22	10			17
18	990		1	12	14	12	240	1.8	.4	52	20			18
19	991		1	14	14	12	260	1.7	.4	48	18			19
20	992		1	6	6	6	140	0.9	.2	16	10			20
21	993		1	16	14	8	160	0.9	.2	44	12			21
22	994		1	8	14	6	140	0.9	.2	28	12			22
23	995		1	24	22	12	520	1.6	.6	60	38			23
24	996		1	2	8	4	100	0.4	.2	8	8			24
25	997		1	2	4	2	80	0.4	.2	8	2			25
26	998		1	22	54	20	480	2.5	.4	106	24			26
27	999		1	22	36	16	320	1.7	.4	60	14			27
28	1000		1	26	56	20	440	3.1	.4	82	26			28
29	1001		1	28	46	20	360	2.8	.4	76	26			29
30	1002		1	64	124	26	380	2.9	.6	96	20			30
31	1003		1	46	72	20	960	2.1	.4	80	18			31
32	1004		1	72	140	38	540	4.5	.6	110	28			32
33	1005		1	98	100	26	720	2.6	.4	68	20			33
34	1006		1	76	116	34	600	3.8	.4	100	24			34
35	1007		1	44	96	24	400	2.6	.6	88	22			35
36	1008		1	24	36	16	300	2.9	.4	84	18			36
37	1009		1	20	34	14	220	2.3	.4	60	12			37
38	1010		1	38	36	20	320	3.7	.6	82	24			38
39	1011		1	24	32	16	280	2.8	.4	68	14			39
40	66		52	364	268	[illegible]	[illegible]	[illegible]	3.6	[illegible]	> [illegible]			40

Certified by [signature]

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Nmax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 741

DATE ANALYSED Aug/79

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FBS895		1	4	48	4	100	0.8	.2	20	8			01
02	896		1	40	42	20	240	2.9	.4	82	30			02
03	897		1	8	10	6	160	1.0	.2	28	6			03
04	898		2	16	38	18	200	3.1	.6	130	20			04
05	899		1	18	20	10	220	2.0	.8	148	16			05
06	900		1	8	10	2	80	1.2	.4	36	10			06
07	901		1	18	8	6	60	1.1	.6	20	4			07
08	902		12	140	168	32	440	5.7	1.2	>680	26			08
09	903		1	16	26	6	260	1.5	.6	140	10			09
10	904		1	6	8	4	100	1.0	.4	60	4			10
11	905		1	4	6	8	80	1.0	.2	22	4			11
12	906		1	48	68	36	1480	3.6	.6	256	28			12
13	907		1	28	36	40	780	2.0	.4	172	14			13
14	908		1	26	14	10	400	0.6	.4	36	10			14
15	909		1	28	40	20	420	2.3	.6	194	18			15
16	910		1	26	58	32	640	4.0	.6	112	26			16
17	911		1	12	12	8	200	1.0	.4	30	4			
18	912		2	16	20	12	360	1.5	.4	100	14			18
19	913		2	18	36	18	300	2.1	.4	68	18			19
20	914		2	20	36	20	360	2.5	.4	64	20			20
21	915		1	20	20	12	220	1.2	.4	52	8			21
22	916		6	12	12	8	220	0.4	.4	32	4			22
23	917		2	20	26	10	640	1.5	.2	40	10			23
24	918		1	36	56	20	480	3.0	.6	176	22			24
25	919		1	20	30	14	340	2.2	.4	72	18			25
26	920		1	28	24	12	1960	1.6	.4	96	14			26
27	921		1	20	22	10	500	1.5	.4	76	14			27
28	922		1	18	20	10	300	1.5	.4	444	12			28
29	923		1	16	16	8	300	1.3	.2	44	10			29
30	924		1	18	24	12	400	2.0	.2	72	14			30
31	925		1	1	2	4	80	0.7	.2	12	2			31
32	926		1	28	28	12	300	1.7	.4	80	14			32
33	927		1	12	8	4	160	1.1	.4	28	4			33
34	928		3	12	24	10	160	2.3	.4	82	14			34
35	929		1	8	6	6	240	1.0	.2	18	4			35
36	930		2	18	28	16	240	2.4	.4	76	16			36
37	931		1	28	32	12	680	1.7	.4	88	10			37
38	932		1	8	10	2	100	1.2	.8	50	6			
39	933		1	8	8	4	80	1.0	.6	36	8			39
40	G6		48	580	278	80	>20	1.7	2.6	340	>400			40

Certified by P. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 4048

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FRS 827		7	28	32	22	380	3.7	.6	184	20			01
02	828		2	30	68	24	320	3.6	.6	280	20			02
03	829		2	38	50	34	520	2.4	.8	254	16			03
04	830		6	58	48	32	2760	2.5	.6	170	14			04
05	831		8	44	60	20	480	3.5	.6	240	24			05
06	832		4	28	36	10	120	1.9	.8	132	14			06
07	833		6	32	40	16	320	3.3	.6	128	24			07
08	834		8	52	54	14	200	3.8	.6	260	26			08
09	835		1	2	4	2	20	0.6	.4	N	2			09
10	836		4	28	34	10	120	2.4	.4	120	16			10
11	837		4	28	46	20	320	3.0	.4	130	20			11
12	838		2	32	46	20	300	3.3	.4	124	22			12
13	839		2	10	12	4	60	1.2	.2	32	10			13
14	840		4	36	52	26	380	3.6	.4	172	24			14
15	941		1	12	16	8	100	1.6	.2	36	10			15
16	842		1	12	12	4	120	0.8	.2	16	4			16
17	843		1	4	4	4	80	0.8	.2	12	2			
18	844		1	12	12	4	80	1.2	.4	28	8			18
19	845		2	16	16	8	160	1.7	.8	64	8			19
20	846		1	1	4	4	80	0.8	.2	16	2			20
21	847		1	1	2	4	20	0.6	.2	10	2			21
22	848		1	4	6	4	40	0.8	.2	16	4			22
23	849		1	20	32	12	200	2.2	.4	64	14			23
24	850		1	10	12	6	80	1.2	.4	32	4			24
25	851		1	4	6	6	180	0.9	.2	32	4			25
26	852		1	4	6	4	60	0.9	.2	20	6			26
27	853		1	4	6	4	120	1.2	.2	24	4			27
28	854		4	28	34	12	200	2.8	.4	100	16			28
29	855		1	4	8	4	40	0.7	.2	10	2			29
30	856		1	56	110	84	260	3.1	.4	76	12			30
31	857		1	32	18	6	140	0.8	.2	34	4			31
32	858		1	12	8	4	80	0.6	.2	16	2			32
33	859		1	62	30	6	60	0.7	.2	24	4			33
34	860		1	40	32	8	260	1.4	.4	44	10			34
35	861		1	28	24	12	140	1.8	.4	52	10			35
36	862		1	16	8	6	560	1.2	.2	50	4			36
37	863		1	10	8	4	80	1.0	.2	28	4			37
38	864		1	2	2	2	60	0.7	.2	10	2			38
39	865		1	20	28	12	300	1.8	.2	72	12			39
40	STD		28	130	36	40	980	0.9	.4	74	64			40

Certified by C. Rossbacher

Kossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 4066

TO: Amax Minerals Exploration
535 Thurlow St Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FRS749		2	18	26	12	260	2.2	.6	60	18			01
02	750		20	28	26	8	100	2.3	.6	76	24			02
03	751		2	20	19	8	140	1.0	.6	40	8			03
04	752		2	22	40	14	200	2.6	.4	70	20			04
05	753		2	14	22	12	220	2.3	.4	50	22			05
06	754		2	16	32	14	220	3.0	.2	104	22			06
07	755		2	14	16	6	180	1.2	.4	32	8			07
08	756		3	16	30	12	200	3.0	.6	60	22			08
09	757		6	20	24	12	240	1.8	.6	52	12			09
10	758		2	20	40	14	280	2.4	.4	84	18			10
11	759		2	24	36	14	520	1.9	.4	74	14			11
12	760		2	16	28	16	460	1.7	.2	44	12			12
13	761		1	18	30	14	500	1.8	.2	60	14			13
14	762		1	16	20	8	160	1.2	.4	38	10			14
15	763		2	16	24	16	340	2.2	.4	100	18			15
16	764		1	8	14	8	200	1.0	.2	20	4			16
17	765		1	4	10	6	140	1.0	.2	18	4			
18	766		1	8	18	10	200	1.2	.2	32	6			18
19	767		1	12	12	8	400	0.6	.4	64	8			19
20	768		2	18	50	18	520	2.3	.4	88	18			20
21	769		1	34	34	20	360	2.8	.6	156	20			21
22	770		2	30	60	20	580	2.9	.6	148	20			22
23	771		2	32	60	20	420	3.1	.6	148	20			23
24	772		2	36	58	28	700	2.9	.6	136	18			24
25	773		2	24	42	18	400	2.3	.4	114	18			25
26	774		1	16	16	6	220	1.0	.2	40	8			26
27	775		1	12	24	12	240	1.5	.4	68	10			27
28	776		1	18	16	8	200	1.0	.2	28	6			28
29	777		1	10	12	6	160	1.1	.2	32	4			29
30	778		1	34	46	20	600	2.7	.6	128	16			30
31	779		1	52	56	20	580	2.6	.6	116	16			31
32	780		1	4	10	6	160	1.0	.2	28	6			32
33	781		1	16	38	16	300	2.7	.4	90	20			33
34	782		1	12	26	14	220	2.6	.2	56	16			34
35	783		1	10	20	12	220	2.5	.2	40	16			35
36	784		1	20	26	12	220	3.2	.4	52	20			36
37	785		1	40	52	16	520	2.4	.6	120	20			37
38	786		1	26	32	24	1000	1.7	.4	56	14			
39	787		1	32	30	20	700	1.6	.4	40	14			
40	G-6		46	360	208	24	340	1.7	.2	544	7400			40

Certified by

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St Van B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/79

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	As	Pb			No.
01	8FBS671		1	24	28	32	1520	2.3	.2	38	8			01
02	672		1	12	16	20	360	1.9	.2	32	2			02
03	673		1	32	32	20	1160	1.9	.2	46	10			03
04	674		1	16	16	8	100	1.2	.2	24	4			04
05	675		2	40	56	20	360	2.9	.4	76	20			05
06	676		1	40	44	20	260	2.9	.6	64	16			06
07	677		1	34	50	30	760	3.1	.6	56	18			07
08	678		1	36	50	26	500	3.9	.4	78	16			08
09	679		1	56	80	34	760	3.5	.4	100	20			09
10	680		1	48	72	28	480	3.7	.4	88	18			10
11	681		1	44	58	24	440	3.3	.4	88	18			11
12	682		1	42	40	24	880	2.7	.2	84	16			12
13	683		1	44	60	24	460	3.2	.4	100	28			13
14	684		1	60	44	18	440	2.0	.4	36	16			14
15	685		1	48	60	24	400	2.9	.4	100	20			15
16	686		1	44	52	24	360	3.0	.4	92	22			16
17	687		1	34	46	20	300	3.0	.4	88	18			
18	688		1	46	40	16	240	2.3	.2	78	16			18
19	689		1	44	42	20	320	2.4	.4	88	16			19
20	690		1	56	72	28	400	3.4	.4	124	24			20
21	691		2	48	62	20	360	2.8	.4	120	16			21
22	692		1	48	72	26	380	3.5	.4	96	22			22
23	693		1	10	12	4	60	0.9	.2	20	4			23
24	694		2	52	88	36	540	4.3	.4	124	26			24
25	695		1	32	42	18	200	2.4	.2	48	16			25
26	696		2	38	20	8	160	0.7	.4	22	10			26
27	697		2	98	120	30	860	5.4	.4	44	22			27
28	698		1	218	108	16	320	1.0	.4	40	12			28
29	699		1	24	26	12	160	1.4	.2	28	8			29
30	700		1	12	30	16	340	1.6	.2	36	10			30
31	701		1	6	4	2	20	0.7	.2	10	4			31
32	702		1	6	4	2	20	0.6	.2	12	4			32
33	703		2	12	26	16	220	2.5	.4	64	16			33
34	704		1	12	12	8	120	1.3	.2	28	8			34
35	705		1	12	14	8	160	1.8	.3	34	6			35
36	706		1	32	42	24	480	4.6	.4	104	22			36
37	707		1	32	48	24	500	3.8	.4	84	20			37
38	708		1	20	16	8	320	0.8	.4	22	10			
39	709		1	46	52	20	420	2.2	.4	88	24			39
40	6[illegible]6		48	36	[illegible]	[illegible]	340	1.9	2.6	34	7400			40

Certified by F. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

8A

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO. 8078

PROJECT 791

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	F	No.
01	78 FB 1264		1	24	68	44	400	4.1	1.0	768	36	-	-	01
02	275		16	32	70	50	200	4.2	.6	96	12	-	-	02
03	S525		1	36	60	28	560	4.1	.6	120	20	0		03
04	629		1	36	40	20	340	3.2	.4	1555	16	0		04
05	630		1	26	36	16	320	2.7	.4	92	12	0		05
06	L 631		1	20	32	20	320	2.9	4	100	14	0		06
07														07
08														08
09														09
10														10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20														20
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29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40	G1		6	36	12	12	200	2.5	5	80	20			40

Certified by A. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO. 8078

PROJECT 741

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W		No.
01	78FBS571		2	48	52	28	520	3.9	.4	140	28	0		01
02	.13g 572		2	34	24	12	360	1.1	.4	66	14	10		02
03	573		2	28	50	20	300	2.8	.4	88	20	0		03
04	574		2	38	46	22	560	2.6	.4	140	20	0		04
05	575		2	32	48	24	520	2.9	.4	120	20	0		05
06	576		2	34	30	64	1560	2.0	.2	60	14	0		06
07	Empty 577		2	36	30	16	220	1.5	.2	72	16	IN.		07
08	.13g 578		1	48	36	16	160	1.2	.2	64	16	IN.		08
09	Empty 579		1	40	48	16	160	1.2	.2	60	8	IN.		09
10	581		2	34	40	26	600	3.3	.4	104	20	0		10
11	582		2	32	20	16	360	2.5	.2	48	8	0		11
12	L583		1	32	40	28	300	3.6	.4	112	16	0		12
13	S 584		1	18	36	16	240	2.7	.4	84	12	0		13
14	585		1	25	44	16	320	2.9	.4	86	16	0		14
15	586		1	24	40	16	320	3.2	.4	90	16	0		15
16	587		1	30	50	20	300	3.1	.4	110	16	0		
17	588		2	26	40	36	700	3.9	.4	108	16	0		17
18	Empty 589		1	34	40	20	280	2.9	.4	92	12	0		18
19	590		1	28	32	16	280	2.5	.4	80	12	0		19
20	.13g 580		2	32	16	8	640	0.9	.4	40	4	IN.		20
21														21
22														22
23														23
24														24
25														25
26														26
27														27
28														28
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37														
38														
39														39
40														40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

TO: Amax Minerals Exploration
535 Thurlow St Van. B.C.

CERTIFICATE NO. 8077
INVOICE NO. 8078

PROJECT 791

DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W		No.
01	78 FBS 491		1	22	40	20	320	3.4	.4	116	20	0		01
02	492		1	40	40	14	240	2.4	.8	76	18	0		02
03	493		2	100	72	16	320	2.4	.4	100	20	IN.		03
04	494		2	38	52	28	400	3.0	.6	132	26	0		04
05	495		2	44	36	8	160	1.9	.4	64	16	0		05
06	496		2	32	40	20	200	2.9	.6	80	20	0		06
07	497		2	48	80	32	860	5.5	.6	176	32	0		07
08	498		2	24	34	14	220	2.9	.4	72	16	0		08
09	499		2	48	48	10	140	1.5	.4	114	16	IN.		09 .13
10	500		1	20	20	6	100	1.2	.4	36	14	0		10
11	501		1	14	16	6	80	1.2	.4	28	8	0		11
12	502		1	12	12	4	80	.9	.2	18	8	0		12
13	503		1	12	28	12	160	1.9	.4	54	12	0		13
14	504		1	30	28	12	120	1.9	.4	56	20	0		14
15	505		2	22	20	10	280	1.2	.4	40	12	0		15
16	506		1	18	44	18	520	3.3	.4	96	20	0		16
17	507		1	20	36	36	760	3.9	.6	104	20	0		
18	508		1	24	38	22	440	4.1	.6	104	20	0		18
19	509		1	22	48	28	340	4.4	.6	108	20	0		19
20	510		1	28	52	28	500	4.4	.6	186	24	0		20
21	511		1	34	52	20	340	3.0	.6	86	24	0		21
22	512		1	28	64	24	360	3.9	.4	94	28	0		22
23	513		1	12	30	12	180	1.9	.4	50	14	0		23
24	514		2	56	40	20	600	2.4	.6	100	20	0		24
25	515		1	6	8	4	80	.8	.4	12	12	0		25
26	[illegible] 516		2	112	40	16	400	1.6	.8	52	24	IN.	IN	26
27	517		1	30	48	26	280	4.3	.6	104	22	0		27
28	518		1	26	40	24	340	3.5	.4	92	20	0		28
29	519		1	28	48	28	360	4.4	.6	116	22	0		29
30	L 520		1	28	52	28	460	4.8	.4	116	24	0		30
31	S 521		2	20	60	26	400	3.8	.4	100	18	0		31
32	522		1	32	60	28	460	4.0	.4	120	20	0		32
33	523		3	24	52	28	440	4.2	.4	108	20	0		33
34	524		3	20	48	26	460	4.1	.4	100	18	0		34
35	526		2	48	28	16	280	1.8	.6	88	12	0		35
36	527		2	48	24	10	120	1.7	.6	74	6	0		36
37	528		4	38	32	14	280	2.1	.4	100	12	0		37
38	529		3	16	20	8	200	1.8	.6	60	12	0		
39	530		5	34	40	16	240	3.0	.6	60	12	0		39
40	622		24	280	32	8	400	1.3	1.5	800	400			40

Certified by [signature]

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(6)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077~~5~~

INVOICE NO. 8078

DATE ANALYSED July/78

TO: AMAX EXPLORATION INC.
535 THURLOW ST. VANC.

PROJECT 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FB5437		1	38	48	22	280	3.0	.4	108	16			01
02	438		1	68	38	26	220	1.6	.4	60	14			02
03	439		1	74	60	16	280	2.3	.4	84	18			03
04	440		1	72	48	20	320	3.3	.6	132	24			04
05	441		1	36	46	30	300	3.5	.4	100	20			05
06	442		1	16	30	32	120	1.5	.4	40	6			06
07	443		1	40	40	22	280	3.5	.4	84	16			07
08	444		1	32	26	20	160	2.9	.4	56	24			08
09	445		1	18	12	20	60	1.1	.2	24	6			09
10	446		3	56	40	8	240	3.8	.4	76	24			10
11	447		1	4	4	~~82~~	20	0.6	.2	12	4			11
12	448		1	8	10	~~8~~	80	2.2	.4	32	16			12
13	449		1	6	4	4	40	1.0	.2	16	4			13
14	450		1	12	20	10	160	2.7	.4	48	20			14
15	451		1	26	14	10	200	1.5	.4	40	12			15
16	452		1	4	4	4	40	0.7	.2	12	4			16
17	453		1	12	10	6	80	1.4	.2	24	12			
18	454		1	32	34	48	144	5.2	.6	92	20			18
19	455		1	26	48	24	320	3.5	.4	108	20			19
20	456		1	28	32	12	160	2.4	.2	70	16			20
21	457		1	24	40	20	20	2.5	.2	86	12			21
22	S458		1	20	12	4	80	0.9	.2	32	6			22
23	459		1	26	34	18	240	2.5	.2	60	14	✓		23
24	460		1	24	26	12	100	1.3	.4	44	10	✓		24
25	461		1	34	22	10	160	0.9	.4	32	10	✓		25
26	462		1	26	48	18	320	2.0	.4	100	16	✓		26
27	463		1	16	28	14	200	1.5	.2	60	14			27
28	464		1	20	34	16	280	2.2	.4	88	14	✓		28
29	465		1	64	68	24	240	3.3	.6	124	26	✓		29
30	466		1	28	52	20	240	2.8	.4	98	14	✓		30
31	S467		1	12	6	4	40	0.8	.2	20	4	✓		31
32	T468		4	32	72	32	400	3.1	.4	92	12	✓		32
33	S469		1	4	6	6	60	1.0	.2	28	6	✓		33
34	470		1	4	4	4	40	0.7	.2	18	8	✓		34
35	471		1	4	6	2	20	0.5	.2	14	2	✓		35
36	472		1	6	2	1	20	0.3	.2	12	4	✓		36
37	473		1	16	26	14	140	2.4	.2	54	14	✓	✓	37
38	474		1	16	30	14	140	1.9	.4	62	14			38
39	475		1	20	12	6	40	1.1	.4	32	14	✓		39
40	S1		6	40	12	10	220	2.8	.4	116	24			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(4)

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

TO: AMAX EXPLORATION INC.
535 THURLOW ST. Vanc.

PROJECT 791

CERTIFICATE NO. 8065
INVOICE NO. 8068
DATE ANALYSED July/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FB5359		1	24	32	18	200	2.3	.6	72	10			01
02	360		1	64	48	36	2280	2.0	.6	132	12			02
03	361		2	48	28	14	1200	.9	.4	40	12			03
04	362		1	52	40	16	360	1.8	.4	88	12			04
05	363		2	172	20	10	520	.7	.2	x460	44			05
06	364		2	32	40	18	200	2.4	.4	76	16			06
07	365		1	36	36	18	160	2.3	.4	64	12			07
08	366		1	40	46	20	280	3.0	.6	92	16			08
09	367		1	52	28	16	380	.6	.2	68	8			09
10	368		1	48	52	22	200	3.2	.6	64	16			10
11	369		1	36	48	22	440	3.4	.6	84	20			11
12	370		1	16	4	6	80	.8	.2	16	4			12
13	371		1	28	36	26	480	2.8	.4	120	8			13
14	372		1	24	14	8	80	1.3	.4	32	8			14
15	373		1	24	16	12	120	1.8	.4	48	10			15
16	374		1	20	10	6	80	1.2	.2	24	4			16
17	375		1	32	12	10	80	1.0	.6	24	4			
18	376		1	40	20	12	60	1.0	.4	24	4			18
19	377		1	20	18	12	160	1.4	.2	40	16			19
20	378		1	24	20	12	180	2.5	.4	44	14			20
21	379		1	8	4	8	80	1.0	.2	18	6			21
22	380		1	16	12	16	220	1.5	.2	34	8			22
23	381		1	16	22	14	160	1.3	.2	42	10			23
24	382		1	64	20	14	280	1.6	.4	28	12			24
25	383		1	48	56	20	320	3.7	.6	64	20			25
26	C 384		1	88	76	36	280	2.3	.4	168	28			26
27	S 385		1	64	40	26	160	1.0	.2	36	12			27
28	386		1	20	20	12	120	1.6	.4	36	12			28
29	387		1	20	24	12	160	2.3	.4	44	20			29
30	388		1	12	4	6	80	.8	.2	16	4			30
31	389		1	16	12	8	140	1.5	.2	28	8			31
32	390		1	24	20	12	120	1.2	.2	34	8			32
33	391		1	20	28	14	200	2.2	.4	72	12			33
34	392		2	20	32	18	240	2.4	.4	84	12			34
35	393		1	86	8	6	80	1.5	.2	24	8			35
36	394		1	20	18	12	200	3.4	.4	68	16			36
37	395		1	48	6	6	40	.6	.2	12	2			37
38	396		1	48	6	6	80	.6	.2	12	2			38
39	397		1	12	12	8	80	1.2	.2	30	4			39
40	G 27		24	248	32	70	420	1.2	1.5	x820	N			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(2)

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8065

TO: AMAK EXPLORATION INC, 535 THURLOW ST VANC.

INVOICE NO. 8068

PROJECT 791

DATE ANALYSED July 17/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FB5279		1	20	20	12	200	1.9	.4	56	12			01
02	280				MISSING									02
03	281		1	8	4	8	80	1.1	.2	20	4			03
04	282		1	16	24	20	400	2.3	.4	76	12			04
05	283		4	28	38	20	420	2.8	.6	112	24			05
06	284		4	14	26	12	200	2.1	.4	80	16			06
07	L 285		4	16	26	12	280	2.2	.4	74	16			07
08	S 286		4	16	28	14	260	2.1	.4	78	16			08
09	L 287		4	16	28	12	240	2.2	.4	72	16			09
10	S 288		6	20	36	14	320	2.5	.4	84	20			10
11	289		4	20	28	12	160	2.3	.4	60	20			11
12	290		6	12	20	12	160	1.8	.4	58	14			12
13	291		4	20	32	16	320	2.3	.4	82	16			13
14	L 292		8	20	36	16	320	2.5	.4	96	24			14
15	S 293		6	24	44	20	400	2.9	.6	128	24			15
16	294		1	8	6	6	80	1.0	.2	16	4			16
17	L 295		8	52	44	20	440	2.9	.4	120	24			
18	S 296		1	6	4	6	40	.6	.2	8	12			18
19	297		2	20	16	8	60	1.3	.4	32	12			19
20	298		6	20	32	16	520	2.5	.4	84	20			20
21	299		7	20	32	16	440	2.1	.4	88	16			21
22	300		5	40	48	20	480	3.2	.4	132	24			22
23	301		4	36	44	18	400	2.8	.4	96	24			23
24	302		2	76	40	12	340	1.2	.4	68	16			24
25	L 303		2	32	38	14	260	2.5	.4	100	24			25
26	S 304		4	34	48	18	300	2.9	.6	120	28			26
27	305		4	24	36	16	240	2.4	.4	100	24			27
28	306		4	24	40	18	460	2.6	.4	112	26			28
29	L 307		3	32	48	18	380	2.6	.6	124	24			29
30	S 308		2	28	54	20	280	3.0	.4	104	28			30
31	309		1	44	22	10	400	1.0	.4	76	18			31
32	310		1	40	48	20	400	3.0	.6	108	24			32
33	311		1	40	52	24	340	3.4	.6	116	24			33
34	312		1	28	40	22	520	2.8	.6	120	20			34
35	313		1	36	38	18	400	2.3	.6	112	18			35
36	314		1	28	40	22	400	2.7	.6	128	24			36
37	315		2	24	22	10	120	1.1	.4	72	14			37
38	316		1	24	44	20	280	2.5	.6	124	20			38
39	L 317		2	20	36	18	360	2.2	.4	112	18			39
40	G-6		48	344	200	22	920	1.7	3.6	356				40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. 1B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Nov. 6/78

No.	Sample	pH	Mg	Ca					Ag	Zn	Pb			No.
01	78 F WS 1653								.4	54	4	✓		01
02	1654								1.0	110	28	✓	✓	02
03	1655								.8	90	16	✓	✓	03
04	1656								.6	32	8	✓	✓	04
05	1657								1.0	100	48	✓	✓	05
06	1658								1.0	184	80	✓	✓	06
07	1659								1.4	240	128	✓	✓	07
08	1662								1.0	88	32	✓	✓	08
09	1661								1.0	78	20	✓	✓	09
10	1662								1.2	180	32	✓	✓	10
11	1663								1.0	116	40	✓	✓	11
12	1664								.6	52	12	✓	✓	12
13	1665								.8	72	22	✓	✓	13
14	1666								1.0	82	24	✓	✓	14
15	1667								1.0	100	26	✓	✓	15
16	1668								.6	46	10	✓	✓	16
17	1669								.6	100	24	✓	✓	17
18	1670								.6	66	20	✓	✓	
19	1671								.4	16	4	✓	✓	19
20	1672								.4	50	12	✓	✓	20
21	1673								1.0	68	24	✓		21
22	1674								.8	88	28	✓		22
23	1675								1.0	110	36	✓		23
24	1676								1.0	92	28	✓		24
25	1677								.2	40	24	✓		25
26	1678								1.0	104	24	✓		26
27	1679								1.2	120	36	✓		27
28	1680								1.0	110	32	✓	✓	28
29														29
30														30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														
40	G 1								.4	116	24			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

9

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077
INVOICE NO. 8078
DATE ANALYSED July/78

TO: Amax Minerals Exploration
535 Thurlow St. Van. B. C.

PROJECT 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	F	No.
01	78FWS709		8	24	20	8	320	0.7	.4	48	16	IN.	HA.	01
02	710		2	26	20	8	120	0.9	.4	36	12	0		02
03	711		2	56	48	16	240	2.8	.4	108	20	0		03
04	712		2	4	8	4	60	0.8	.2	24	8	0		04
05	713		4	32	50	24	360	3.5	.6	100	20	0		05
06	714		2	22	28	9	160	1.5	.4	44	10	0		06
07	715		2	32	48	16	240	3.1	.4	80	20	0		07
08	716		2	14	12	4	120	1.3	.4	30	10	0		08
09	717		4	22	32	16	360	2.7	.4	88	20	20		09
10	718		2	24	32	14	400	2.5	.4	120	20	0		10
11	719		4	26	32	12	220	2.3	.4	84	20	0		11
12	720		4	24	30	12	280	2.2	.4	84	16	0		12
13	721		2	20	24	8	200	2.0	.4	60	12	0		13
14	722		4	28	40	14	320	2.7	.4	96	20	0		14
15	723		2	6	6	4	80	1.4	.2	20	4	0		15
16	724		4	24	36	12	440	2.4	.4	88	20	0		16
17	725		4	26	36	18	580	2.6	.4	96	20	0		
18	726		4	20	32	10	240	2.4	.4	84	16	0		18
19	727		3	14	20	8	200	2.4	.2	54	16	0		19
20	728		2	40	38	18	420	3.2	.2	112	16	0		20
21	729		2	28	24	10	180	2.2	.4	72	16	0		21
22	730		4	22	26	8	160	1.9	.2	70	14	0		22
23	731		2	26	30	10	180	2.1	.4	80	16	0		23
24	732		2	28	30	20	560	2.4	.4	88	20	0		24
25	733		2	24	28	10	260	2.2	.4	84	16	0		25
26														26
27														27
28														28
29														29
30														30
31														31
32														32
33														33
34														34
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36														36
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38														
39														39
40														40

.2 grm

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO. 8078

PROJECT 791

DATE ANALYSED July 24/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb	W	F	No.
01	78FWS631		1	10	17	8	140	2.3	.2	38	16	0		01
02	632		2	18	24	10	240	2.8	.2	68	16	1		02
03	633		2	28	44	16	260	2.8	.2	72	16	1		03
04	634		2	26	40	14	260	3.3	.4	100	22	0		04
05	635		2	28	44	16	260	2.7	.4	84	20	0		05
06	636		2	24	40	18	360	3.0	.4	92	20	0		06
07	637		4	28	36	14	340	2.5	.4	80	20	0		07
08	638		4	46	56	22	280	4.1	.4	164	26	0		08
09	639		2	26	52	14	280	2.4	.4	80	16	0		09
10	640		4	36	50	18	340	2.8	.4	140	16	0		10
11	641		1	28	40	16	260	2.2	.2	80	12	0		11
12	642		1	13	12	8	130	1.6	.2	32	8	0		12
13	643		6	20	50	32	400	4.3	.4	100	104	/	/	13
14	644		1	14	28	20	200	3.5	.4	116	20	0		14
15	645		1	18	20	10	160	2.6	.2	56	16	0		15
16	646		4	120	36	16	280	2.2	.8	160	16	0		16
17	647		1	22	32	14	240	3.7	4	128	20	0		
18	648		1	22	20	14	400	2.1	.4	72	12	0		18
19	649		1	18	8	4	80	0.9	.2	40	4	0		19
20	650		1	6	4	4	40	0.8	.2	12	2	0		20
21	651		1	8	8	4	40	0.8	.2	12	4	0		21
22	652		2	32	18	12	420	1.7	.4	132	12	0		22
23	653		4	52	32	16	360	2.1	.4	84	12	0		23
24	654		1	8	4	2	40	0.7	.2	12	0	0		24
25	655		2	60	44	12	120	2.0	.2	72	8	0		25
26	656		1	20	16	4	40	0.8	.2	24	1	0		26
27	657		40	136	64	32	500	5.8	.8	>400	26	0		27
28	658		18	96	52	32	44	4.3	.8	268	22	0		28
29	659		1	14	6	4	40	0.8	.8	16	1	0		29
30	660		1	8	4	4	60	1.0	4	20	1	0		30
31	661		1	64	16	6	80	0.6	.2	32	4	0		31
32	662		1	8	4	4	80	1.1	.6	20	1	0		32
33	663		4	52	44	20	120	4.5	2.2	80	24	0		33
34	664		2	64	40	20	120	5.3	.6	44	18	0		34
35	665		2	44	64	28	160	4.5	.6	80	24	0		35
36	666		2	28	20	12	220	2.0	.4	52	10	0		36
37	667		2	40	104	32	140	3.8	.4	84	26	0		37
38	668		6	30	82	24	200	3.8	.4	80	20	0		38
39	669		1	12	8	8	100	1.4	.2	24	4	0		39
40	627		24	284	28	14	450	1.2	1.5	>800				40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8065
INVOICE NO. 8068
DATE ANALYSED July 28

TO: AMAX EXPLORATIONS IN
535 THURLOW ST. VAN 5, B.C.
PROJECT FISHOOK CREEK 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FWS 583		1	24	60	20	320	2.4	.4	76	20			01
02	584		1	12	28	10	120	1.3	.2	40	14			02
03	585		1	16	56	12	220	1.5	.2	52	16			03
04	586		1	26	62	22	380	2.7	.4	92	28			04
05	587		1	20	44	18	280	2.4	.4	88	20			05
06	588		2	36	80	26	400	3.2	.4	140	28			06
07	589		1	20	40	20	440	2.3	.4	76	20			07
08	L 590		1	32	80	22	600	3.0	.6	120	28			08
09	S 591		2	30	64	18	340	2.16	.4	132	24			09
10	L 592		1	20	44	16	360	2.3	.2	80	18			10
11	S 593		1	12	30	16	300	1.7	.2	56	14			11
12	594		1	16	40	14	320	2.0	.4	80	16			12
13	595		1	20	40	18	260	2.3	.4	76	20			13
14	596		1	28	52	18	320	2.4	.4	84	20			14
15	597		1	28	62	20	360	2.7	.4	96	20			15
16	598		1	24	40	16	380	2.2	.2	92	20			16
17	599		1	32	60	22	560	2.6	.4	96	20			
18	601		1	18	40	16	260	2.2	.4	80	20			18
19	602		1	20	44	16	300	2.3	.4	84	16			19
20	603		1	20	44	12	160	2.1	.4	68	16			20
21	604		1	40	68	20	460	2.8	.6	136	24			21
22	605		1	24	48	18	300	2.5	.4	104	20			22
23	606		1	12	28	10	260	1.6	.4	52	12			23
24	607		2	28	44	20	560	2.2	.4	100	20			24
25	608		1	24	48	18	440	2.5	.6	116	24			25
26	609		3	30	72	22	860	2.9	.6	116	26			26
27	610		3	28	56	20	880	3.0	.6	168	24			27
28	611		1	14	34	12	500	1.8	.4	52	12			28
29	612		2	28	44	16	520	1.8	.6	76	20			29
30	613		1	24	56	16	400	2.4	.4	96	24			30
31	614		1	16	52	16	320	2.1	.4	76	20			31
32	615		1	22	52	18	360	2.2	.4	128	20			32
33	616		1	24	46	14	320	2.3	.4	84	20			33
34	617		1	20	44	16	300	2.2	.4	84	20			34
35	618		1	20	46	14	300	2.1	.4	84	20			35
36	619		1	20	54	16	340	2.2	.4	84	20			36
37	620		1	20	40	16	280	1.9	.4	64	16			37
38	621		1	32	44	14	240	2.0	.4	84	20			
39	622		1	32	56	20	480	2.4	.4	120	20			39
40	~~622~~ 600		1	26	48	16	400	2.3	.4	104	20			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(10)

JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #8065
INVOICE NO. 8068
DATE ANALYSED July 17/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST. VAN. 5, B.C.
PROJECT 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	BFWS 505		1	34	16	10	60	1.8	.6	28	16			01
02	506		1	30	40	18	220	2.9	.8	72	16			02
03	507		1	16	32	18	220	3.4	.6	96	20			03
04	508		1	26	50	22	340	3.5	.6	132	24			04
05	509		1	20	24	12	120	2.0	.4	56	16			05
06	510		2	28	44	14	140	2.2	.6	72	20			06
07	511		2	16	52	18	200	2.7	.4	78	20			07
08	512		1	28	40	12	160	2.2	.4	70	20			08
09	513		6	34	60	22	440	3.2	.4	148	28			09
10	514		7	56	48	12	120	2.1	.6	72	16			10
11	515		6	24	32	22	300	2.5	.6	72	20			11
12	516		7	32	40	18	180	2.8	.6	96	24			12
13	517		4	12	20	10	120	1.8	.4	44	8			13
14	518		7	24	34	14	120	2.9	.4	74	20			14
15	519		2	10	16	12	200	1.6	.4	28	12			15
16	520		2	20	50	22	340	2.8	.4	96	28			16
17	521		1	28	58	26	440	3.4	.4	108	24			17
18	522		1	28	64	26	340	3.1	.6	112	24			18
19	523		1	22	40	16	300	2.0	.4	58	12			19
20	524		5	32	56	28	2000	2.3	.4	80	16			20
21	525		2	22	90	16	400	1.9	.4	80	16			21
22	526		2	18	12	8	160	1.1	.4	24	8			22
23	527		1	82	114	36	420	4.7	.6	140	38			23
24	528		1	48	76	26	340	3.7	.6	104	32			24
25	529		1	52	76	16	320	2.3	.4	88	16			25
26	530		1	20	42	16	280	2.5	.2	88	16			26
27	531		1	48	56	22	480	2.1	.4	76	16			27
28	532		1	38	44	16	520	1.7	.4	96	16			28
29	533		1	32	44	20	200	2.7	.4	92	16			29
30	534		1	20	36	12	160	1.8	.4	96	12			30
31	535		2	36	56	24	360	2.9	.4	128	20			31
32	536		1	16	32	16	460	2.0	.2	80	16			32
33	537		1	24	48	20	380	3.3	.4	124	16			33
34	538		1	16	36	24	220	2.2	.4	76	14			34
35	539		1	36	68	22	040	3.1	.4	112	20			35
36	540		4	46	60	22	340	3.5	.4	156	24			36
37	541		3	38	52	20	400	3.1	.6	168	20			37
38	542		1	32	54	26	500	3.6	.4	116	20			38
39	543		1	40	50	22	360	3.0	.6	128	20			39
40	G 29		24	264	32	8	400	1.1	1.5	X	V			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

RECEIVED JUL 17 1978

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. # 8065
INVOICE NO. 8068
DATE ANALYSED July 17 8

TO: AMAX EXPLORATION INC
535 THURLOW ST. VAN 5, B.C
PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FWS423		2	20	38	22	400	3.4	.4	104	24			01
02	424		3	18	36	20	260	2.4	.4	68	20			02
03	425		2	40	56	26	240	3.4	.6	156	24			03
04	426		3	20	28	12	120	2.3	.2	88	16			04
05	427		2	12	24	10	140	2.1	.4	72	12			05
06	428		6	28	32	12	200	3.9	.6	98	20			06
07	429		6	36	60	22	200	3.4	.6	248	20			07
08	430		4	16	32	16	140	2.7	.4	76	20			08
09	431		4	44	44	14	180	2.2	.8	176	16			09
10	432		8	46	58	18	160	3.1	.6	212	22			10
11	433		3	20	40	14	180	2.4	.4	112	16			11
12	434		3	20	36	14	160	2.8	.4	112	20			12
13	435		6	36	60	14	280	3.2	.4	196	16			13
14	436		2	12	14	10	100	2.4	.4	54	18			14
15	438		2	16	20	12	140	2.9	.4	72	20			15
16	439		1	6	4	6	40	1.0	.2	12	4			16
17	441		1	20	28	12	120	2.7	.4	76	16			
18	442		1	40	32	12	280	1.9	.4	88	16			18
19	443		1	12	4	6	60	1.0	.2	26	4			19
20	444		1	8	8	6	90	1.0	.2	20	4			20
21	445		1	16	24	12	160	1.9	.2	48	16			21
22	446		1	8	4	8	40	1.8	.2	18	4			22
23	447		1	10	8	6	40	.6	.2	18	2			23
24	448		6	48	44	18	20	3.1	.8	100	24			24
25	449		8	32	44	18	280	3.5	.6	116	24			25
26	450		4	32	40	18	200	2.8	.6	104	24			26
27	L 451		2	28	34	12	200	2.2	.4	92	20			27
28	S 452		8	48	50	20	620	2.8	.4	164	20			28
29	453		8	20	38	18	280	2.6	.4	84	16			29
30	454		4	30	30	14	220	2.1	.4	112	12			30
31	455		4	48	44	20	360	3.0	.4	144	20			31
32	456		4	32	40	18	300	2.7	.4	124	16			32
33	457		2	32	32	14	160	2.8	.6	120	32			33
34	458		4	52	32	14	160	2.1	.4	108	28			34
35	459		6	56	36	14	180	2.3	.4	108	24			35
36	460		1	4	4	4	60	1.0	.2	14	8			36
37	461		1	12	6	8	60	1.0	.2	16	8			37
38	462		4	24	18	12	160	2.5	.4	48	24			
39	463		2	8	8	10	80	1.4	.2	24	12			39
40	G 6		48	388	280	90	300	1.7	3.0	352	X			40

Certified by J. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8088

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78 FGL 64		6	46	52	16	420	3.8	1.8	160	22			01
02	T65		42	74	130	8	220	3.3	.6	164	76			02
03	L66		2	66	32	12	820	2.6	.6	288	42			03
04	T67		22	46	80	6	240	1.9	.8	64	40			04
05	68		30	12	126	8	140	1.4	.4	16	22			05
06	L69		2	74	84	12	540	3.4	.8	272	52			06
07	T70		44	42	172	8	280	2.6	.6	164	30			07
08	71		38	58	162	8	180	2.4	.6	84	22			08
09	S72		2	68	34	6	320	1.9	.2	40	10			09
10	73		1	16	34	6	280	3.3	.4	64	22			10
11	74		1	20	26	16	600	2.2	.4	36	14			11
12	75		1	20	28	10	600	1.2	.4	36	12			12
13	76		1	68	144	28	420	3.2	.4	48	18			13
14	77		1	80	30	12	360	1.5	.4	34	14			14
15	78		2	384	154	66	1160	7.4	.8	88	24			15
16	79		1	16	12	18	260	2.0	.2	20	8			16
17	80		1	6	4	8	60	1.0	.2	6	4			
18	81		1	48	56	28	380	3.1	.4	56	20			18
19	82		1	14	18	10	180	1.8	.4	26	14			19
20	83		1	16	10	8	140	1.2	.2	12	6			20
21	84		2	18	32	14	260	2.8	.4	64	20			21
22	85		2	12	8	8	160	1.4	.2	18	6			22
23	86		1	16	30	16	200	2.5	.4	48	14			23
24	87		1	12	10	6	80	0.8	.2	16	6			24
25	88		1	14	14	10	140	1.3	.2	32	4			25
26	89		1	18	18	14	240	2.8	.2	40	12			26
27	90		1	6	4	6	100	1.8	.2	12	4			27
28	91		1	8	6	6	140	1.5	.2	20	10			28
29	92		1	4	4	6	80	0.7	.2	8	2			29
30	93		1	4	4	6	80	0.7	.2	8	2			30
31	94		1	4	4	6	40	0.5	.2	8	2			31
32	95		1	8	16	10	200	1.5	.2	50	8			32
33	96		1	4	6	8	80	1.2	.2	16	6			33
34	97		1	50	40	30	780	2.5	.4	112	18			34
35	98		1	2	4	8	200	1.0	.2	16	4			35
36	99		1	6	8	8	100	1.2	.2	20	6			36
37	100		1	6	8	8	160	1.2	.2	24	4			37
38	101		1	30	38	20	200	2.8	.4	68	10			
39	102		1	8	8	8	120	1.5	.2	20	2			39
40	G1		6	40	12	14	220	2.7	.4	104	24			40

Certified by G. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

JUL 17 1978

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8065
INVOICE NO. 8068
DATE ANALYSED July/78

TO: AMAX EXPLORATION INC.
535 THURLOW ST. VANC.

PROJECT Fishhook Creek

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8 FGL 16		2	38	62	44	720	3.8	.8	140	24			01
02	20		2	140	56	26	400	3.2	.6	140	24			02
03	22		1	26	40	16	300	2.4	.4	88	12			03
04	23		1	492	996	38	400	3.0	.6	156	22			04
05	T 24		6	27	36	36	480	5.0	.4	108	24			05
06	C 25		1	98	66	36	320	1.7	.4	120	16			06
07	26		4	50	54	22	340	3.0	.4	160	20			07
08	T 27		6	22	30	28	220	4.1	.6	108	28			08
09	28		16	52	80	62	300	2.0	.6	372	32			09
10	29		2	40	88	40	4700	2.5	.8	68	32	SKARN		10
11	C 30		2	74	192	80	1490	3.2	.4	352	22			11
12	T 31		4	160	92	78	180	2.4	.4	40	24			12
13	32		36	14	30	32	60	0.4	.4	14	12			13
14	C 33		2	50	56	30	900	3.0	.6	208	24			14
15	34		2	52	60	28	360	2.7	.6	120	32			15
16	T 35		30	12	44	44	80	1.6	.2	52	20			16
17	36		26	22	40	38	80	1.1	.2	72	12			
18	C 37		8	16	48	40	290	4.1	.2	160	16			18
19	T 37		4	24	240	20	300	2.6	.2	104	20			19
20	C 38		2	24	38	18	400	2.4	.4	104	24			20
21	T 39		1	22	88	46	240	4.6	.8	144	72			21
22	C 40		2	24	40	24	460	2.8	.4	124	32			22
23	T 41		2	40	50	30	240	4.0	.6	128	56			23
24	C 42		2	26	40	20	400	2.6	.4	108	24			24
25	G 7		30	196	228	10	80	1.0	.4	80	68			25
26														26
27														27
28														28
29														29
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38														
39														39
40														40

Certified by F. Rossbacher

GEOCHEMICAL ANALYSTS & ASSAYERS

TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8173

TO: Amax Minerals Exploration
535 Thurlow St Van B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Nov. 1978

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn ppm	Pb		Sn	No.
01	78FTS186		8	60	100	36	520	3.8	1.4	244	152		0	01
02	187		2	38	58	28	400	2.4	.6	120	64		0	02
03	T188		22	30	84	34	160	2.6	2.4	240	720		0	03
04	190		54	36	180	110	320	1.8	.6	52	100		0	04
05	S191		30	26	120	26	360	2.6	1.0	280	210		0	05
06	T192		50	38	150	90	420	2.4	.6	36	48		0	06
07	193		4	200	108	40	3400	1.6	2.0	200	190		0	07
08	194		84	54	248	150	320	2.6	3.2	20	460		0	08
09	195		48	52	140	84	240	1.7	.8	32	40		2	09
10	196		30	40	106	42	120	2.0	.8	76	100		0	10
11	197		16	48	120	72	400	3.0	1.6	64	92		0	11
12	198		64	46	170	92	200	2.0	.4	46	58		0	12
13	199		104	50	290	186	320	3.4	2.0	80	250		0	13
14	200		36	32	120	60	200	1.8	3.8	96	176		0	14
15	78FTS201		34	36	136	66	220	2.2	.8	56	56		0	15
16														16
17														17
18														18

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

SEP 20 1978

(3)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT

DATE ANALYSED SEPT/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FTT170	✓	↑						1.0	38	144	✓		01
02	171	✓							3.0	204	186	✓		02
03	172	✓							2.2	36	138	✓		03
04	173	✓							1.2	84	114	✓		04
05	174	✓							1.4	68	98	✓		05
06	175	✓							.8	180	86	✓		06
07	176	✓							2.4	110	94	✓		07
08	177	✓							1.2	38	122	✓		08
09	178								.4	26	50	✓		09
10	179	✓							.6	40	46	✓		10
11	180	✓							1.0	48	114	✓		11
12	181	✓							1.6	120	74	✓		
13	182								2.2	94	120	✓		13
14	183								.6	20	62	✓		14
15	184								.8	20	106	✓		15
16	185								.6	26	46	✓		16
17														17

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

Z

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. #~~8065~~ 8077

INVOICE NO. 8078

DATE ANALYSED July/78

TO: AMAX EXPLORATIONS INC
535 THURLOW ST. JAN. S, B.C.

PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FTL 73		1	28	60	24	320	2.7	.4	106	24			01
02	78		2	22	34	16	240	2.2	.4	84	20			02
03	79		2	22	40	20	240	2.6	.4	92	16			03
04	80		1	24	44	20	280	2.4	.4	96	20			04
05	81		2	22	40	16	220	2.1	.2	96	14			05
06	T 82		2	12	48	28	400	3.2	.6	90	22			06
07	L 83		1	~~88~~	62	28	160	1.5	.4	100	14			07
08	T 84		1	18	50	34	480	3.6	.6	78	28			08
09	85		1	80	40	26	140	3.2	.4	86	18			09
10	86		2	~~36~~	18	14	120	2.9	.6	40	32			10
11	87		~~4~~	20	36	28	120	1.0	.6	24	56			11
12	88		2	32	48	28	40	0.8	.6	26	28			12
13	89		8	24	80	60	220	2.9	.6	88	26			13
14	90		~~20~~	22	72	44	80	1.1	.6	42	28			14
15	91		~~12~~	36	66	52	40	1.0	.4	20	22			15
16	92		~~6~~	48	60	46	220	3.2	.6	80	30			16
17	93		6	10	32	26	100	0.9	.6	24	86			17
18	94		~~12~~	16	60	26	120	1.9	.4	88	16			
19	95		~~7~~	48	76	32	160	2.4	.6	94	22			19
20	96		2	24	30	18	80	1.5	.4	40	10			20
21	97		4	24	52	26	100	2.1	.4	84	~~18~~			21
22	98		5	32	30	~~26~~	80	2.3	.6	68	26			22
23	99		4	28	32	24	120	2.1	.4	60	30			23
24	101		4	32	40	32	240	2.8	.4	~~88~~	28			24
25	L 102		1	~~80~~	56	24	160	1.4	.4	96	18			25
26	103		1	~~20~~	~~24~~	14	180	1.3	.2	46	6			26
27	L104		1	28	48	24	260	2.4	.4	84	14			27
28	105		1	24	34	18	340	1.8	.4	68	16			28
29	T 100		4	36	44	30	200	1.9	.4	68	26			29
30														30
31														31
32														

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8061

INVOICE NO. 8068

DATE ANALYSED July 1/78

TO: AMAX EXPLORATION INC
535 THURLOW ST JAN 5 BC

PROJECT FISHOOK CREEK

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	8FTL 66		2	60	60	38	340	4.0	.6	104	20			01
02	67		1	28	56	28	340	4.2	.4	124	20			02
03	~~68~~		2	~~32~~	36	20	500	2.8	.4	108	20			03
04	T 74		36	24	68	50	120	1.8	.4	70	8			04
05	75		~~28~~	16	48	38	8	.9	.4	42	4			05
06	76		~~76~~	12	40	42	8	.7	.4	36	4			06
07	77		~~28~~	28	40	40	8	1.3	.4	48	24			07
08														

Bondar Clegg Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
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TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8077
INVOICE NO. 8078
DATE ANALYSED July 1/78

TO: Amax Minerals Exploration
535 Thurlow St Van B.C.

PROJECT 791

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78 FXT 1		14	30	76	36	100	1.9	.4	190	28			01
02	L 2		2	28	44	24	440	3.3	.6	120	24			02
03	T 3		48	40	44	28	100	3.5	.4	150	24			03
04	4		32	8	84	84	100	1.4	.4	44	28			04
05	L 5		4	18	32	14	400	2.2	.2	80	18			05
06	6		2	16	30	14	340	2.3	.4	72	16			06
07	T 7		20	32	40	36	100	1.6	.4	42	20			07
08	8		28	22	32	28	400	3.1	.4	80	22			08
09	L 9		6	80	90	28	380	3.1	.6	332	20			09
10	T 10		12	12	30	30	100	0.8	.6	18	30			10
11	11		18	26	42	44	100	1.4	.4	62	10			11
12	L 12		4	60	56	24	400	3.0	.6	160	22			12
13	T 13		10	20	40	38	120	1.1	.4	36	14			13
14														14
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Certified by C Bondar

Procedures for Collection and Processing of Geochemical Samples

Analytical Methods for Ag, Mo, Cu, Pb, Zn, Fe, Mn, Ni, Co and W in sediments and soils; Mo, Cu, Zn, Ni and SO_4^{--} in waters.

Amax Exploration, Inc.
Vancouver Office.

September 1970

SAMPLE COLLECTION

Soils

B horizon material is sampled and thus organic rich topsoil and leached upper subsoil are avoided. Occasionally organic rich samples have to be taken in swampy depressions.

Samples are taken by hand from a small excavation made with a cast iron mattock. Approximately 200 gms of finer grained material is taken and placed in a numbered, high wet-strength, Kraft paper bag. The bags are closed by folding and do not have metal tabs.

Observations as to the nature of the sample and the environment of the sample site are made in the field.

Drainage Sediments

Active sediments are taken by hand from tributary drainages which are generally of five square miles catchment or less. Composite samples are taken of the finest material available from as near as possible to the centre of the drainage channel thus avoiding collapsed banks. More than one sample is taken if marked mineralogical or textural segregation of the sediments is evident.

Some 200 gm of finer material is collected unless the sediment is unusually coarse in which case the weight is increased to 1 kg. Samples are placed in the same type of Kraft paper bag as are employed in soil sampling. Water samples are taken at all appropriate sites. Approximately 100 mls are sampled and placed in a clean, screw sealed, polythene bottle. Observations are made at each site regarding the environment and nature of the sample.

Rock Chips

Composite rock chip samples generally consist of some ten small fragments broken from unweathered outcrop with a steel hammer. Each fragment weighs some 50 gms. Samples are placed in strong polythene bags and sealed with non-contaminating wire tabs. Samples are restricted to a single rock type and obvious mineralization is avoided.

Soil, sediment and rock samples are packed securely in cardboard boxes or canvas sacks and dispatched by road or air.

Rossbacher Laboratory
GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
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TELEPHONE: 299-6910
AREA CODE: 604

April 30, 1974

SUMMARY OF SOME ANALYTICAL TECHNIQUES CURRENTLY IN USE AT ROSSBACHER LABORATORY

A ANALYTICAL TECHNIQUES FOR GEOCHEMICAL SAMPLES

SAMPLE PREPARATION

Packages of samples are opened as soon as they arrive at the laboratory and the bags placed in numerical sequence in an electrically heated sample drier (maximum temperature 70°C).

After drying soil and sediment samples they are lightly pounded with a wooden block to break up aggregates of fine particles and are then passed through a 35 mesh stainless steel sieve. The coarse material is discarded and the minus 35 mesh fraction replaced in the original bag providing that this is undamaged and not excessively dirty.

Rock samples are exposed to the air until the outside surfaces are dry; only if abnormally wet are rocks placed in the sample drier. Rock samples are processed in such manner that a fully representative 1/2 g. sample can be obtained for analysis. The entire amount of each sample is passed through a jaw crusher and thus reduced to fragments of 2 mm. size or less. A minimum of 1 kg. is then passed through a pulverizer with plates set such that 95% of the product will pass through a 100 mesh

screen. Where samples are appreciably heavier than 2 kg the material is split after jaw crushing by means of a Jones splitter. After pulverizing the sample is mixed by rolling on paper and is then placed in a Kraft paper bag.

SAMPLE DIGESTION

Digestion tubes (100 x 16 mm) are marked at the 5 ml level with a diamond pencil. Tubes are cleaned with hot water and concentrated HCl. 0.5 g samples are weighed accurately, using a Fisher Dial-O-Gram balance, and placed in the appropriate tubes.

To each of the samples thus prepared are added 2 ml of an acid mixture comprising 15% nitric and 85% perchloric acids. Racks of tubes are then placed on an electrical hot plate, brought to a gentle boil ($\frac{1}{2}$ hour) and digested for $4\frac{1}{2}$ hours. Samples unusually rich in organic material are first burned in a porcelain crucible heated by a bunsen burner before the acid mixture is added. Digestion is performed in a stainless steel fume hood.

After digestion tubes are removed from the hot plate and the volume is brought up to 5 ml with deionized water. The tubes are shaken to mix the solution and then centrifuged for one minute. The resulting clear upper layer is used for Cu, Mo, Pb, Zn, Ag, Fe, Mn, Ni and Co determination by a Perkin-Elmer 290B atomic absorption spectrophotometer. Analytical procedures are given on the following pages.

ANALYTICAL PROCEDURES

Silver

1. Scope - This procedure covers a range of silver in the sample from less than .5 to 1000 ppm

2. Summary of Method - The sample is treated with nitric and perchloric acid mixture to oxidize organics and sulphides. The silver then is present as perchlorate in aqueous solution. The concentration is determined by atomic absorption spectrophotometer

3. Interferences - Silver below 1 gamma/ml is not very stable in solution. Maintaining the solution in 20% perchloric prevents silver being absorbed on the glass container. Determination must be completed on the same day as the digestion.

   Samples high in dissolved solids, especially calcium, cause high background absorbance. This background absorbance must be corrected using an adjacent Ag line.

Silver AA Settings P.E. 290

Lamp - Ag

Current 4 ma position 3

Slit 7 A

Wavelength 3281A Dial 287.4

Fuel - acetylene - flow - 14

Oxidant - air - flow - 14

Burner - techtron AB_51 in line

Maximum Conc. 3 to 4x

Calibration

1. Set 1 gamma/ml to read 40 equivalent to 20 gamma/gm

   Factor $\frac{1}{2}$ x meter reading

   Check standards

   4, 10, 20, 40 ppm Ag in sample

2. Set 15 gamma/ml to 100 equivalent to 100 ppm

   Check standards

   40, 100 ppm

   Factor directly in ppm Ag

3. Rotate burner to maximum angle

   Set 10.0 gamma/ml Ag to read 100

   Check standards

   100, 200, 400, 1000 ppm Ag

   Factor 10x scale reading

4. Samples higher than 1000 ppm should be re-analyzed by assay procedure

5. Background correction for sample reading between 1 to 5 ppm

   Calibrate AA in step 1

   Dial wavelength to 300 (peak)

   Read the samples again

   Subtract the background reading from the first reading

Standards

1. 1000 gamma/ml Ag - 0.720 gm Ag_2SO_4 dissolved in 20 mls $Hx1O_3$ and dilute to 500 mls

2. 100 gamma/ml Ag - 10 mls of above + 20 mls $HClO_4$, dilute to 100 mls

3. Recovery spiked standard

5 gamma/ml Ag - 5 mls 100 gamma/ml dilute to 100 mls with "mixed" acid

Working AA Standards

Pipette .2, .5, 1, 2, 5, 10 mls of 100 gamma/ml and 2, 5 mls 1.000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This equivalent to 4, 10, 20, 40, 100, 200, 400, and 1000 ppm Ag in the sample .50 gm diluted to 10 mls.

Recovery Standard

Pipette 2 mls of 5 gamma/ml Ag in mix acids into a sample and carry through the digestion. This should give a reading of 20 ppm Ag + original sample content.

Follow the general geochemical procedure for sample preparation and digestion.

For low assay Ag, the same procedure is used. Ag is then calculated in oz/ton.

1 ppm = .0292 oz/ton

conversion factor

oz/ton = .0292 x ppm Ag

Zn Geochemical AA Setting

Lamp Zn

Current 8 #3 Slit 20A

Wave length 2138 Dial 84.9

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - P.E. short path 90°

Range

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

0 - 50 gamma/ml Factor 10x -0 to 1000 ppm

For Waters - Burner AB- 51 in line 1 gamma/ml read 100 to give 0 to 1000 ppb

High Zn Burner Boling in line. Wavelength 3075. Dial 250 Slit 7A

Fuel 14 Air 14.5

0 to 1000 gamma/ml read 0 to 20 Factor 400 x

Pure Standard 10,000 gamma/ml

1 gm Zn dissolved, H_2O, HCl, HNO_3, $HClO_4$, fumed to $HClO_4$ - make up to 100 mls H_2O

1000, 100 gamma/ml and 100 ml by dilution in 20 % $HClO_4$

0 to 200 gamma/ml Zn use combined Cu, Ni, Co, Pb, Zn standards

Pipette

1, 2, 3, 5, 8, 10 mls of 10,000 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give

100, 200, 300, 500, 800, 1000 gamma/ml Zn for high standards

Co Geochemical AA Setting

Lamp - 5 multi element

Current 10 #4 Slit 2A

Wavelength 2407 Dial 133.1

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - AB 51 in line

Range

0 - 10 gamma/ml read 100 Factor 2 x reading to 200 ppm

0 - 20 gamma ml read 100 Factor 4 x reading to 400 ppm

Burner at maximum angle

0 - 100 gamma/ml read 100 Factor 20 x reading to 2000 ppm

0 - 200 gamma/ml read 100 Factor 40 x reading to 4000 ppm

Standards - 1000 gamma/ml

1.000 gm cobalt metal dissolved in HCl, HNO, and fumed into $HClO_4$, dilute to 1 liter

Pipette

1, 2, 10, 20 mls into 100 ml vol flasks diluted to mark with 20% $HClO_4$

This gives

10, 20, 100, 200 gamma/ml Co

Mixed - combination standards of Cu, Ni, Co, Pb, Zn

of

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml are used for calibration

Mn Geochemical AA Setting

Lamp Multi element Ca, Ni, Co, Mn Cr

Current 10 #4 Slit 7A

Wave length 4030.8 Dial 425.2

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - P.E. short path (or AB 50)

Range

0 - 100 gamma/ml Factor 20x - 0 to 2000 ppm

0 - 200 gamma/ml Factor 40x - 0 to 4000 ppm

Burner 90°

0 - 1000 gamma/ml Factor 200x - 0 to 20,000 ppm

0 - 2000 gamma/ml Factor 400x - 0 to 40,000 ppm

EDTA Extraction - use AB 51 in line

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

Standards

Fisher 10,000 gamma/ml (ml)

10x Dilution 1000 gamma/ml

Pippette

.5, 1, 2, 3, 5, 8, 10, ml of 1000 gamma/ml

2, 3, 5, 8, 10, 15, 20 ml of 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This gives

5, 10, 20, 30, 50, 80, 100, 200, 300, 500, 800, 1000, 1500, 2000 gamma/ml.

Mo Geochemical AA Setting

Lamp ASL H/C Mo

Current 5 #5 Slit 7A

Wavelength 3133 Dial 260.2

Fuel - Acetylene Flow 12.0 to give 1" red feather

Oxidant - Nitrous oxide Flow 14.0

Burner - AB 50 in line

Caution read the operation using N_2O and acetylene flame at end of general AA procedure

Range

0 - 10 gamma/ml Factor 2x - 0 to 200 ppm

Rotate burner to max. angle

0 - 50 gamma/ml Factor 10 x 0 to 1000 ppm

0 - 100 gamma/ml Factor 20 x 0 to 2000 ppm

Standards 1000 gamma/ml

Dissolve .750 gms MoO_3 (acid molybdic) with 20 mls H_2O, 6 lumps NaCH, when all dissolved, add 20 mls HCl, dilute to 500 mls

100 gamma/ml - 10 x dilution

Pipette

.2, .5, 1, 2, 3, 5, 8, 10 mls of 100 gamma/ml

2, 3, 5, 8, 10 mls of 1000 gamma/ml add 5 mls 10% $AlCl_3$ and dilute to 100 mls with 20% $HClO_4$

This gives

.2, .5, 1, 2, 3, 5, 8, 10, 20, 30, 50, 80, 100 gamma/ml Mo

Fe Geochemical AA Setting

Lamp - Fe

- Do not use multi element Fe

Current 10 #4 Slit 2A

Wavelength 3440.6 Dial 317.5

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - PE Short Path 90°

Range

0 - 5000 gamma/ml 0.1 x % - 0 to 10.0%

0 - 10,000 gamma/ml 0.2 x % - 0 to 20.0%

Higher Fe - 10 x dilution

Standards 10,000 gamma/ml

Weigh 5.000 gms iron wires, into beaker, add H_2O, HCl, HNO_3, $HClO_4$, heat to $HClO_4$ fumes. Add $HClO_4$ to 100 mls + 100 mls H_2O, warm, dilute to 500 mls

Pipette

1, 5, 10, 20, 30, 50, 80 mls 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$ to give

100, 500, 1000, 2000, 3000, 5000, 8000 gamma/ml to be equivalent to .2, 1.0, 2.0, 4.0, 6.0, 10.0%, 16.0% Fe in geochem sample

Ni Geochemical AA Setting

Lamp P.E. H/C. Ni or multi element Cu, Ni, Co, Mn, Cr

Current 10 #4, Slit 2A

Wave length 3415 Dial 312.5

Fule - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner AB 51 in line

Range

0 - 20 gamma/ml Factor 4x - 0 - 400 ppm

0 - 100 gamma/ml Factor 20x - 0 - 2000 gamma

45° 0 - 200 gamma/ml Factor 40x - 0 - 4000 ppm

0 - 500 gamma/ml Factor 100x - 0 - 10,000 ppm

Ni in waters and very low ranges

Wave length 2320 Dial 118

Range 0 - 5 gamma/ml Factor 1x - 0 - 100 ppm

Standards 10,000 gamma/ml

1.000 gm pure Ni metal dissolved in HCl, HNO_3, $HClO_4$ to perchloric fumes, dilute to 100 ml H_2O

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% HClO

1, 2, 5, 8, 10 mls of 100 gamma/ml

2, 5, 8, 10 mls 1000 gamma/ml

2, 5, 8, 10 mls 10,000 gamma/ml - dilute to 100 mls in 20% HClO4. This gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200, 500, 800, 1000 gamma/ml N

Combined Standards - Cu, Ni, Co, Pb, Zn is used as a working standard

Cu Geochemical AA Setting

Lamp Single Cu or

5 multi element

Current 10 for multi element #4 Slit 7A

4 for single #3 Slit 7A

Wavelength 3247 Dial 280

Burner Techtron AB 51 (For Cu in natural waters)

P.E. Short Path (For geochem)

Fuel Acetylene Flow 14

Oxidant Air Flow 14

Range

0 - 5 gamma/ml Factor 1x to 100 ppm (for low Cu)

0 - 20 gamma/ml Factor 4x to 400 ppm

Burner 90°

0 - 200 gamma/ml Factor 40x to 4000 ppm

Wavelength 2492 Dial 147

Burner in line

Range

0 - 1000 gamma/ml Factor 200x to 20,000 ppm

0 - 2000 gamma/ml Factor 400x to 40,000 ppm

Higher range than 40,000 ppm requires 10x dilution

Standards

10,000 gamma/ml

1.000 gm metal powder, H_2O, HCl, HNO_3 until dissolved, add $HClO_4$, fume dilute to 100 mls

1000 gamma/ml 10x dilution above in 20% $HClO_4$

2000 gamma/ml 20 mls 10,000 gamma/ml - dilute to 100 mls in 20% $HClO_4$

100 gamma/ml 10x dilution 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$

200 gamma/ml 10x dilution 2000 gamma/ml dilute to 100 mls in 20% $HClO_4$

Pipette

1, 2, 3, 5, 8, 10 mls 100 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give 1, 2, 3, 5, 8, 10 gamma/ml

Combined standards Cu, Ni, Co, Pb, Zn

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml

Pb Geochemical AA Setting

Lamp ASL H/c Pb

Current 5 ma Slit 7A

Wave length 2833 Dial 208

Fuel - acetylene Flow 14

Oxidant - air Flow 14

Burner AB 51 in line

Range

0 - 20 gamma/ml to read 0 to 80. Factor 5x 0 to 500 ppm

0 - 200 gamma/ml to read 0 to 80. Factor 50x 0 to 5000 ppm

Standards - 10,000 gamma/ml

1.000 pure metal, dissolved in HNO_3, fumed to $HClO_4$ make up to 100 mls in 20% $HClO_4$

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% $HClO_4$

Pipette

1, 2, 5, 8, 10 mls 100 gamma/ml

2, 5, 8, 10, 20 mls 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$ this gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200 gamma/ml

Combined Standards Cu, Ni, Co, Pb, Zn, are used as working standards

W in Soils and Silts

Reagents and apparatus

Test tubes - pyrex disposable

Test tubes - screw cap

Bunsen Burner

Flux - 5 parts Na_2CO_3

4 parts NaCl

1 part KNO_3 pulverized to -80 mesh

7% $SnCl_2$ in 70% HCl

20% KSCN in H_2O

Extractant - 1 part tri-n-butyl phosphate

9 parts carbon tetrachloride

Standards

1000 gamma/ml W

.18 gms Na_2WO_4 $2H_2O$ dissolved in H_2O, make up to 100 mls

100 gamma/ml, 10 gamma/ml by dilution

Standardization

Pipette .5, 1, 2, 3, 5, 8, 10 ml of 10 gamma/ml

and 1.5, 2 mls of 100 gamma/ml - dilute to 10 mls

continue from step #4

Artificial colors - Nabob pure Lemon Extract, dilute with 1:1 ethanol and water to match. Tightly seal these for permanent standards

Procedure

1. Weigh 1.0 gram sample, add 2 gm flux, mix

2. Sinter in rotary for 2 to 3 minutes (Flux dull read for one minute)
3. Cool, add 10 mls H_2O, heat in sand bath to boiling, cool, let sit overnight
4. Stir, crush, and mix. Let settle
5. Take 2 ml aliquot into screw cap test tube
6. Add 7 mls $SnCl_2$, heat in hot water bath for 5 minutes (80°C)
7. Cool to less than 15°C
8. Add 1 ml 20% KSCN, mix (if lemmon yellow; compare color standard 10x)
9. Add $\frac{1}{2}$ ml extractant, cap, shake vigorously 1 minute
10. Compare color

Molybdenum in Water Samples

1. Transfer 50 mls to 125 separatory funnel
2. Add 5 ml .2% ferric chloride in conc HCl
3. Add 5 mls of mixed KSCN and $SnCl_2$
4. Add 1.2 mls isopropyl ether, shake for 1 minute, and allow phases to separate
5. Drain off water
6. Compare the color of extractant

Standardization

Pipette 0, .2, .5, 1, 2, 3, 4, 5, mls of 1 gamma/ml and 1, 1.5, 2, mls of 10 gamma/ml dilute to 50 mls with demineralized H_2O, and continue step #2.

This equivalent to -

1, 4, 10, 20, 40, 60, 80, 100, 200, 300, 400 ppb Mo

Artificial color - Nabob orange extract dilute with 1:1 H_2O to methanol to match. Seal tightly

$SnCl_2$ - 15% in 15% HCl

300 gm $SnCl_2 \cdot 2H_2O$ + 300 mls HCl, until $SnCl_2$ dissolved dilute to 2 liters

KSCN - 5% in H_2O

Mixed $SnCl_2$ - KSCN

3 parts $SnCl_2$ to 2 parts KSCN

Water Samples Run for AA

1. Cu - 2 gamma/ml reads 80 scale therefore 1 unit = 25 ppb

2. Zn - 1 gamma/ml reads full scale therefore 1 unit = 10 ppb

3. Ni - 2.5 gamma/ml reads 50 scale therefore 1 unit = 50 ppb

Burner: long slot techtron burner in line

Sulphate in Natural Waters

1. Pipette 0.5 ml sulphate reagent mix into a colorimetric tube
2. Add 5 ml water sample and mix
3. Read at 343 mμ against a demineralized water blank
4. Read again at 400mμ and subtract from sulphate reading
5. Calculate ppm sulphate from the graph

Reagent

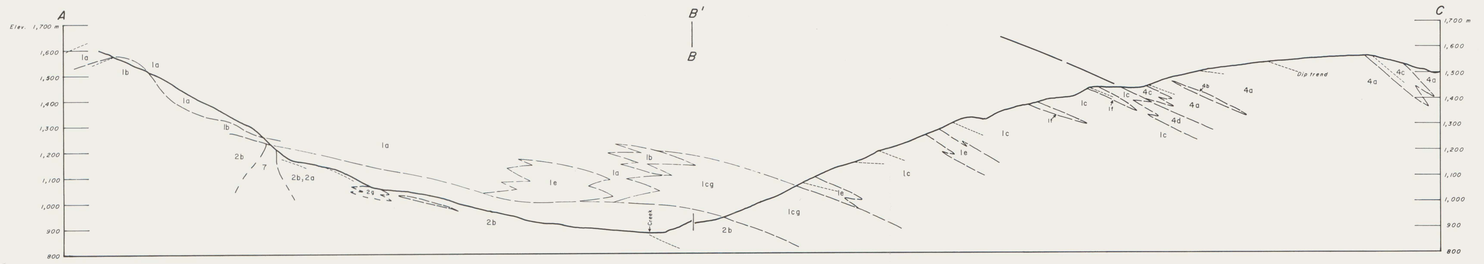
Dissolve 54 grams red mercuric oxide (J.T. Baker 2620- Can Lab) in 185 ml 70% perchloric acid and 20 ml H_2O, shake for one hour. Add 46.3 grams ferric perchlorate [$Fe(ClO_4)_3 \cdot 6H_2O$] (GFS 39) and 47 grams aluminum perchlorate [$Al(ClO_4)_3 \cdot 8H_2O$] (GFS 2) Add 400 ml water to dissolve, let settle overnight, decant into bottle and make to 1 liter

pH MEASUREMENTS

Soil and drainage sediment samples are dampened with water in a glass beaker to a pasty consistency. Demineralized water is used for this purpose as it has a low buffer capacity and thus does not influence the pH of the sample. Measurement is made with a Fisher Acument pH meter. Electrodes are stored in buffer overnight. A 30 minute warm up time is allowed for the instrument each morning. A 10 ml aliquot is taken from water samples for pH measurement.

ROSSBACHER LABORATORY

P. Rossbacher



LOOKING NORTH NORTHWEST

Slump and boulder fill derived from unit 7

TAY No 2 GRID

TAY No 1 GRID

BASE LINE

L-240 W L-480 W L-720 W L-240 E L-480 E L-720 E

L E G E N D

CRETACEOUS

7 — *Quartz monzonite, porphyritic quartz monzonite.*

MIDDLE CAMBRIAN TO LOWER ORDOVICIAN

4a — *Chlorite phyllite, calcareous chlorite phyllite, phyllitic basic tuffs and interbedded chlorite and carbonate rich bands, minor quartz sericite schist.*

4b — *Light to medium grey cherts and cherty phyllites.*

4c — *Dark grey to black siliceous or argillaceous band, often graphitic and calcareous, minor chlorite.*

4d — *Interbedded calc-silicate, quartz-biotite-serecite schist, quartz-sericite schist, quartzitic schist and chlorite phyllite.*

LOWER CAMBRIAN

2a — *Light green to cream coloured calc-silicate, crystalline marble bands less than 10% quartz-biotite-sericite schist.*

2b — *Interbedded calc-silicate and quartz-biotite-sericite schist in roughly equal porpotions.*

2c — *Calc-silicate with graphitic bands, quartz-sericite-graphite schist.*

2g — *Coarse grained garnet-diopside skarn.*

1a — *Quartz-biotite-sericite schist with approximately 10% calc-silcate minerals.*

1b — *Quartz-graphite-sericite schist, recrystalized graphitic chert, silceous biotite-graphite schist; may grade along strike into graphitic quartz-sericite schist of unit* lcg.

1c — *Light to medium grey quartz-sericite and sericite-quartz schist and phyllite; often alternating quartz rich and sericite rich laminae; contains biotite near facies change into* 1e; *andalusite metacrysts present towards base of schist section.*

lcg — *Quartz-sericite-graphite ± andalusite schist.*

1d — *Medium to dark grey crystalline marble, minor green calc-silicate.*

1e — *Rusty weathering purplish-brown quartz-biotite-sericite ± andalusite schist, locally contains chiastolite, minor quartzitic schist.*

1f — *Chlorite phyllite, quartz-sericite-chlorite phyllite.*

S Y M B O L S

Outcrop, suboutcrop and/or boulder

Felsenmeer, boulder patch.

Geological contact (defined, approximate, assumed).

Fault.

Jointing attitude (inclined, vertical).

Axis of small isoclinal folds between crenulation foliation planes showing plunge.

Crenulation foliation plane (horizontal, inclined).

Wrinkle crenulation on foliation plane showing plunge.

Axis of open folds of the foliation plane showing plunge.

Major fold axis (anticline, syncline).

Grid picket line.

Property boundary.

Topographic contour (contour interval 20 metres).

Stream.

Swamp, swamp boundary.

ABBREVIATIONS

dissem.	*disseminated*
po	*pyrrhotite*
py	*pyrite*

AMAX POTASH LIMITED

TAY MOUNTAIN PROPERTY
TAY CLAIMS

WHITEHORSE MINING DISTRICT — YUKON TERRITORY

GEOLOGICAL MAP

SCALE 400 0 400 METRES
1,000 0 1,000 FEET
1 : 10,000

To accompany 1978 Geological and Geochemical Assessment Report by R.G. Kidlark and A.C. Hitchins.

Vancouver — H.P.

N.T.S. Ref. 105 K 5 and 12, L 8 and 9

FIG. 3

INSET

TAY No 2 GRID
(SEE INSET)

TAY No 1 GRID

BASE LINE

L-720 W
L-480 W
L-240 W
L-0
L-240 E
L-480 E
L-720 E

SYMBOLS

- Soil
- Silt
- Rock chip

Sample site, sample number; p.p.m. Pb, Zn, Ag.
(See APPENDIX I for analytical values of other elements)

- Grid picket line.
- Property boundary.
- Topographic contour (contour interval 20 metres).
- Stream.
- Swamp, (swamp boundary.

AMAX POTASH LIMITED

TAY MOUNTAIN PROPERTY
TAY CLAIMS

WHITEHORSE MINING DISTRICT — YUKON TERRITORY

GEOCHEMICAL MAP

SCALE 400 0 400 METRES
1,000 0 1,000 FEET
1 : 10,000

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FIG. 4