

TY PROPERTY

1997 ASSESSMENT REPORT

DESCRIBING GEOLOGICAL, GEOCHEMICAL, AND GEOPHYSICAL

SURVEYS ON THE TY 1-38 CLAIMS,

FINLAYSON LAKE AREA, YUKON TERRITORY

DATES WORKED: 15/06/97 – 30/09/97

NTS 105G/1

61°10'N/130°10'W

Watson Lake Mining Division

Prepared for

093 822

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by

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March, 1998

RPT/98-10

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 15,200.

M. B. B.
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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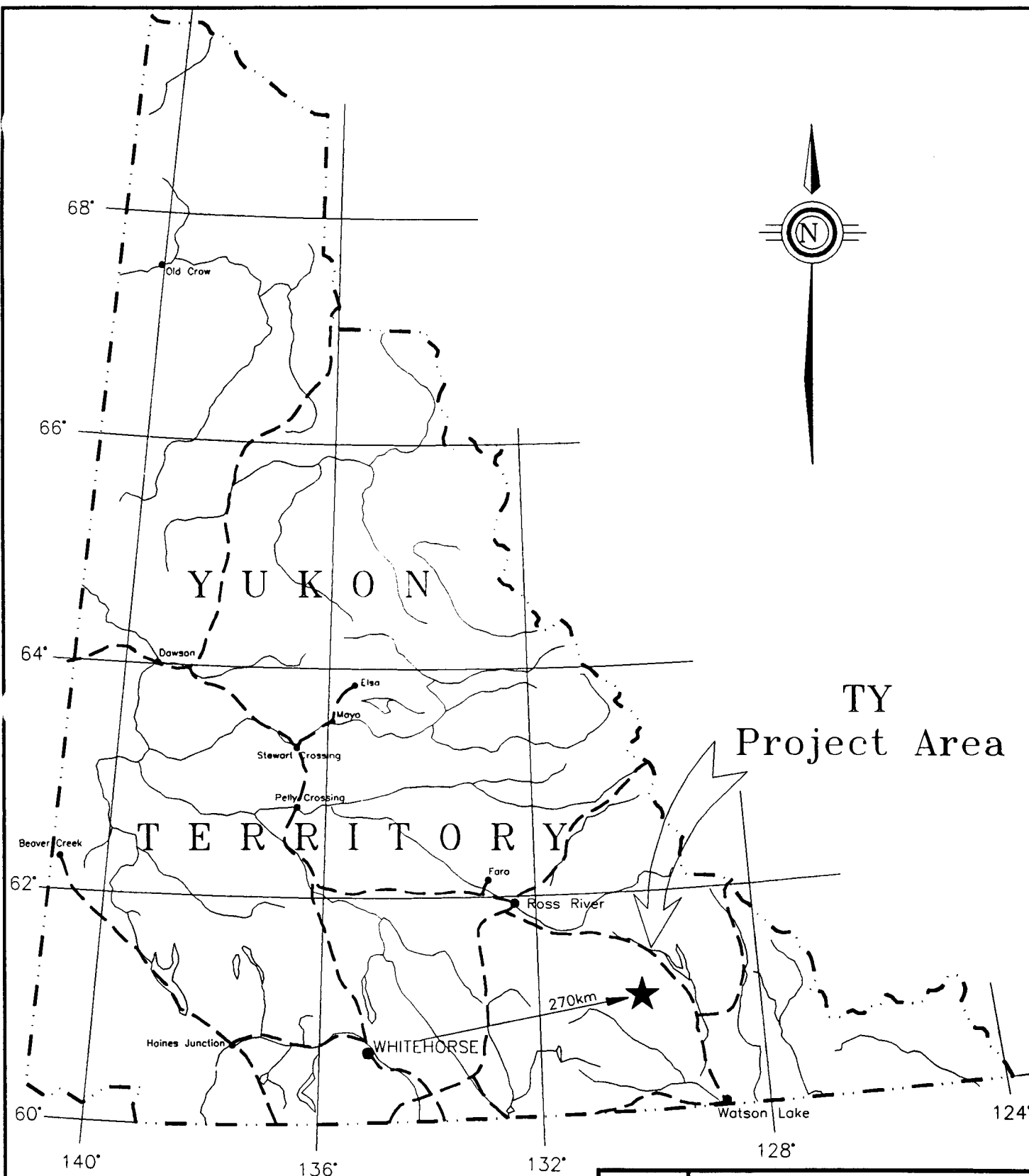
1.0 INTRODUCTION

The 1996 field program on the TY property included an airborne geophysical survey, line-cutting on the southern part of the property, grid and contour soil sampling, silt sampling, geologic mapping and rock sampling, a ground MAG/VLF survey, and diamond drilling. A second field program was carried out in 1997 by Westmin. Work included 13 km of line cutting by Nitro Enterprises of Atlin, B.C. on the northern portion of the property, geological mapping, grid soil sampling, and a ground magnetics and maxmin survey carried out by Amerok Geophysics of Whitehorse, YT. All samples were sent to Chemex Labs in North Vancouver, B.C. for analysis. The field exploration program was supervised by David A. Terry, project geologist with Westmin Resources Limited, and was carried out by Westmin Resources Limited field personnel.

2.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The TY claims are located 155 km southeast of the village of Ross River and 35 km northwest of Watson Lake in the southeastern Yukon Territory as shown on Figure 2.1. The claims are centered about 61°10'N and 130°10'W within NTS map sheet 105G/1. Access to the property is by helicopter which can be chartered in either Ross River or Watson Lake. The Robert Campbell Highway which runs between Ross River and Watson Lake lies approximately 35 km north of the property.

The TY claims are located within the Simpson Range of the Pelly Mountains, a sub-division of the Yukon Plateau physiographic region of the northern Cordillera. Elevation in the Simpson Range varies between 1000 meters and 2350 meters above sea level. On the TY property elevations range from 1200 meters to 1900 meters above sea level. The Simpson range is bounded by the regional Tintina Fault to the southwest, the Ross Lowland to the



		WESTMIN RESOURCES LIMITED PACIFIC BAY MINERALS LTD.	
Work By Westmin		TY PROJECT	
Date Drafted Nov. 24, 1996		Property Location Sketch	
Drafted By A. Turner			
N.T.S. Number	50 0 50 100 150km	Figure	
File Name TY_LOC.DWG	 Scale 1 : 500 000	2.1	

northwest, and the Liard Plateau to the southeast. Glaciation in the area between 26.5 ka and 10 ka resulted in the formation of broad anastomosing valleys, isolated mountains and small mountain ranges. Tributaries to drainages occupying the valleys commonly originate in cirque valleys. Wide valleys are commonly infilled with glaciofluvial sediments.

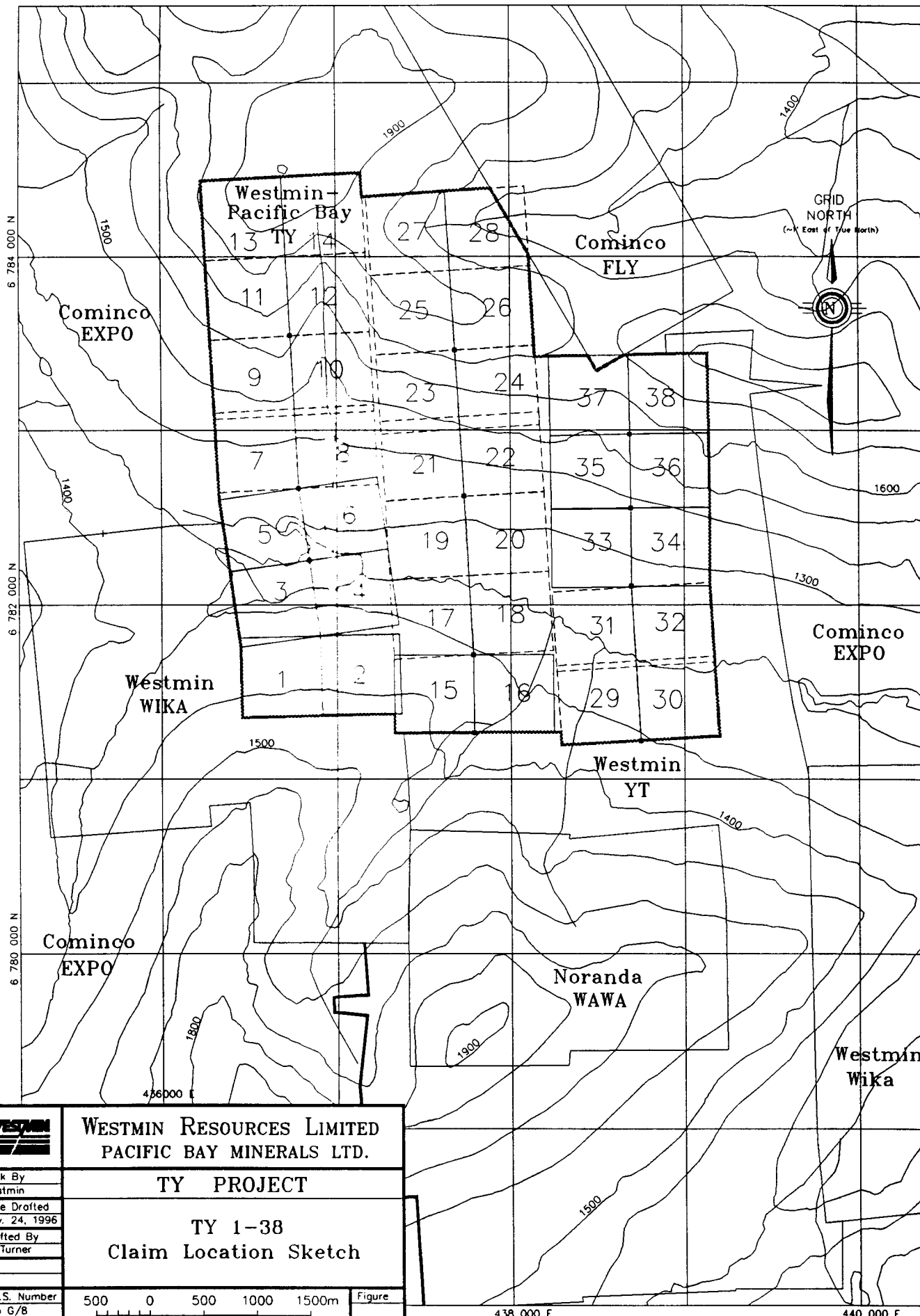
The valley which runs through the central portion of the TY claim group is occupied by glaciofluvial deposits of greater than 5 meters thickness. Treeline ranges from 1400 to 1500 meters above sea level, below which vegetation is dominated by black spruce and balsam fir. A moderate north-facing forested slope forms the southern portion of the property. Most of the outcrop in this area occurs along two north-flowing creeks which drain the mountain which occurs to the south of the property. Minor outcrop and subcrop was observed in the forested areas. North of the properties central valley a moderate to steep slope leads up an easterly trending ridgeline. Here, above treeline, outcrop and subcrop are relatively common.

3.0 LIST OF CLAIMS AND OWNERSHIP

Claim names, record numbers, record dates, and expiry dates for the claims covered in this report are given in Table 3.1. The distribution of the TY (1-38) claims is shown by Figure 3.1. The claims are held by Pacific Bay Minerals Limited of Vancouver B.C., subject to a 2.5% NSR. Westmin Resources Limited of Vancouver, B.C. has an option agreement with Pacific Bay under which Westmin can earn a 50% interest in the property by spending \$325,000 by November 15, 1997 or a 60% interest by spending a total of \$500,000 by November 15, 1998.

Table 3.1 List of Claims

Disposition #	Claim Number	Rec Date	Due date	Owner
56230-56267	TY-1 to TY-38	Oct. 3, 1994	April 3, 2001	Pacific Bay Minerals Ltd.



WESTMIN RESOURCES LIMITED
PACIFIC BAY MINERALS LTD.

Work By
 Westmin
 Date Drafted
 Nov. 24, 1996
 Drafted By
 A. Turner

TY PROJECT

TY 1-38
Claim Location Sketch

N.T.S. Number
 105 G/8
 File Name
 TY_CLM.DWG

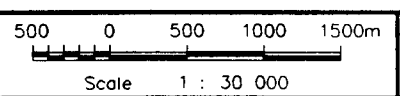


Figure
3.1

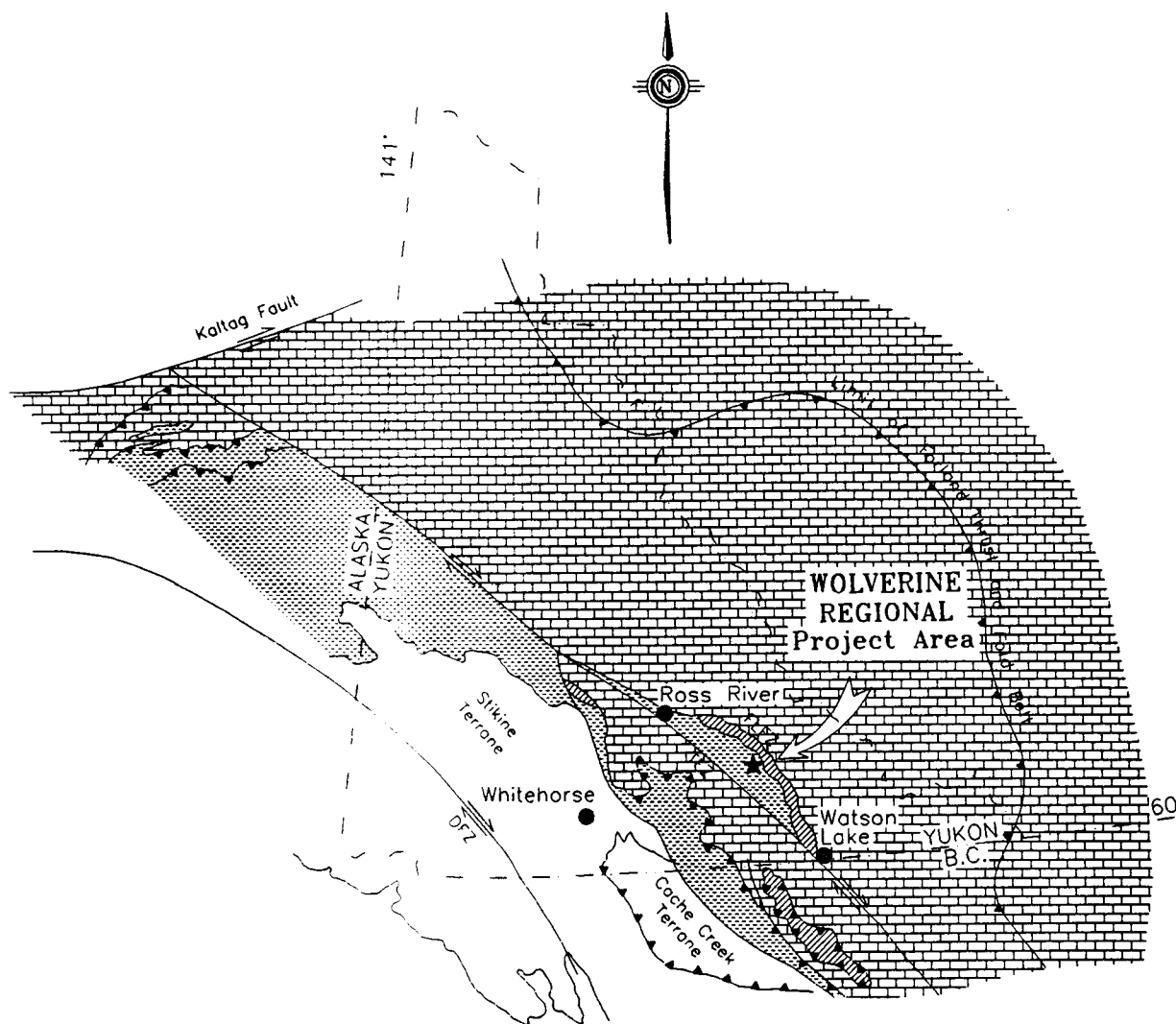
4.0 PREVIOUS WORK

The area now covered by part of the TY claims was originally staked as the PY claims by Cyprus Anvil Mining Corporation in 1975 to cover a regional stream sediment survey anomaly of 1000 ppm Cu. At that time a grid was established and mapping, soil sampling, EM, and IP surveys were carried out over the property. Highly anomalous Cu in soil anomalies were detected however the geophysical surveys failed to identify any specific target (Schmidt, 1995). In 1988 Northern Dynasty staked the area as the Lion claims to cover gold and arsenic anomalies in stream sediments reported in G.S.C. O.F. 1648. Limited follow-up work failed to locate the source of the anomalies (Schmidt, 1995).

Atna Resources held claims over the area in the early 1990's and the TY Claims were staked by Pacific Bay Minerals in 1994 to cover the northern part of the former PY property. During the summer of 1995 Pacific Bay conducted a soil survey over a flagged grid on the southern portion of the TY property. Numerous copper anomalies and some lead, zinc and silver anomalies were detected. During the fall of 1995 the property was visited by Westmin who concluded an option agreement with Pacific Bay on November 1, 1995. Westmin completed an exploration program consisting of geological mapping, soil sampling, and a diamond drilling program between July and October of 1996 (Terry et al., 1996).

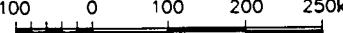
5.0 REGIONAL GEOLOGY

The property is located within a portion of southeastern Yukon known as the Finlayson Lake belt, an elongate composite body bounded on the southwest by the Tintina Fault Zone and on the northeast by the Finlayson Lake Fault Zone (Figure 5.1). The Tintina Fault Zone is a major transcurrent structure along which approximately 450 km of dextral offset occurred in Late Cretaceous and/or early Tertiary time (Tempelman-Kluit et al., 1976). The Finlayson Lake Fault



LEGEND

-  North American Miogeoclinal Strata
-  Yukon - Tanana Terrane
-  Slide Mountain Terrane
-  Thrust Fault
-  Strike-Slip Fault, with sense of movement
- FLFZ - Finlayson Lake Fault Zone
- TFZ - Tintina Fault Zone
- DFZ - Denali Fault Zone

	WESTMIN RESOURCES LIMITED ATNA Resources Ltd.	
Work By	WOLVERINE REGIONAL PROJECT	
Date Drafted Nov. 24, 1996	Tectonic Setting	
Drafted By A.T. & J.K.		
N.T.S. Number	after Mortensen and Jilson (1985)	
File Name yuk_tan.dwg	 Scale 1 : 5 000 000	
	Figure 5.1	

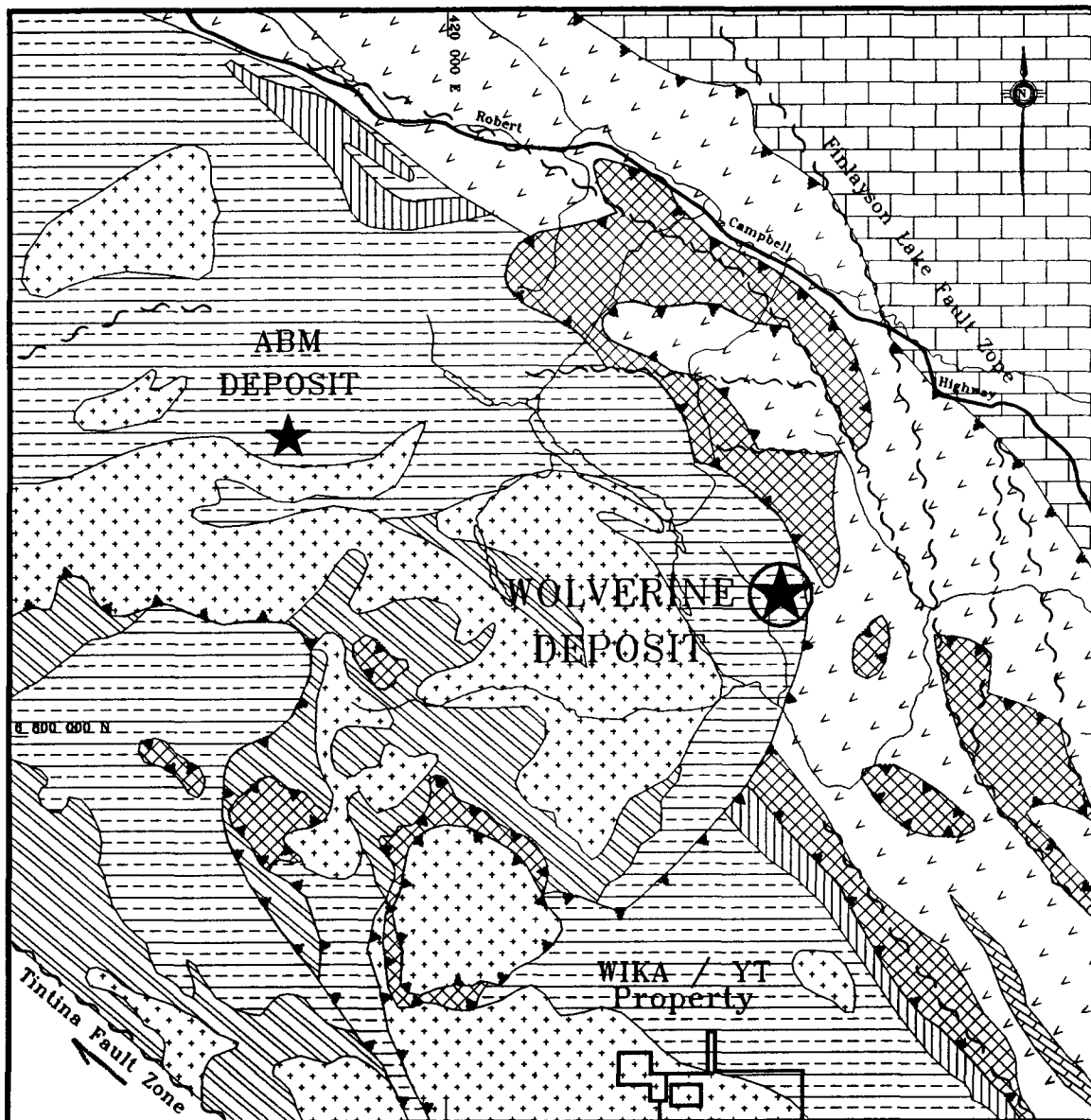
Zone is described by Mortensen (1996, personal communication) as a complex structure which may, in part, represent a transpressive dextral paleosuture. Much of the Finlayson Lake belt is underlain by rocks grouped with the Yukon Tanana terrane (YTT) by Mortensen and Jilson (1985). The YTT underlies a large area of western to southeastern Yukon and east-central Alaska. The YTT rocks in the Finlayson Lake Belt are believed to be offset along the Tintina Fault from the main body of the YTT in the western Yukon. Mortensen (1992) has divided the YTT in the Yukon into 3 main structural assemblages: 1) the Nisling assemblage, a lower quartzite and marble package of possible Proterozoic and/or Cambrian age; 2) the middle Nasina assemblage, a package of Late Devonian to mid Mississippian carbonaceous metasedimentary and mafic to felsic metavolcanic rocks; and 3) an upper package of mid-Permian felsic metavolcanic (Klondike Schist) and metaplutonic rocks. Recent interpretations conclude that the YTT represents a mid-Paleozoic volcanic-plutonic arc assemblage built on continental crust (Nokleberg and Aleinikoff, 1985; Mortensen and Jilson, 1985; Foster et al., 1987; and Mortensen, 1992). Although the andesitic volcanics one would expect to be voluminous in a continental margin arc setting are seemingly not present in the Finlayson Lake Belt, Mortensen (1996, personal communication) suggests that large K-feldspar megacrystic granitoids which form part of the core of the belt are intermediate in composition and therefore, together with the volcanics, represent a differentiated igneous suite.

Regional metamorphism throughout the YTT ranges from very low grade to amphibolite facies. Radiometric dating suggests that metamorphic events may have occurred at different times in different subterranean. Mortensen and Jilson (1985) have subdivided the YTT in the Finlayson Lake Belt into six major lithologic packages: 1) a sequence of layered metasedimentary and metamorphic rocks; 2) Paleozoic metaplutonic rocks; 3) middle to late Paleozoic mafic and ultramafic igneous rocks and chert; 4) early Mesozoic clastic rocks; 5) Mesozoic plutonic rocks; and 6) Late Cretaceous and/or early Tertiary volcanic rocks

(Figure 5.2). The layered metamorphic package (LMP) is approximately 3 km thick and is divisible into: 1) a lower Devonian and older quartz+mica+/-garnet schist and quartzite package with an upper marble/calcareous schist unit; 2) a middle dark siliceous to carbonaceous phyllite unit interlayered with mafic and felsic volcanics. U-Pb zircon ages of the felsic metavolcanic rocks range from Late Devonian to mid-Mississippian; and 3) an upper white carbonate/quartzite package of Early Pennsylvanian to Permian age (Mortensen and Jilson, 1985). Paleozoic metaplutonic rocks are divided by Mortensen and Jilson (1985) into: 1) the Simpson range plutonic suite of quartz-monzonite to quartz-diorite (349-359 Ma, U-Pb zircon); 2) augen orthogneiss (342 Ma, Rb-Sr); and 3) monzonitic orthogneiss (340-345 Ma, U-Pb zircon). The first two are considered to have an intrusive relationship with the lower LMP due to pyritization of wallrocks in the case of the Simpson suite and a hornfelsed aureole bordering the augen orthogneiss.

Large bodies of massive to pillowed greenstone, chert, and variably serpentinized ultramafic to mafic plutonic rocks are common in the northeastern portion of the Finlayson Lake belt and have been interpreted (Tempelman-Kluit, 1979 and Mortensen and Jilson, 1985) as fragments of a dismembered ophiolite. Tempelman-Kluit (1979) mapped these rocks as part of the Anvil allochthon whereas they are referred to as the Campbell Range Belt by Mortensen and Jilson (1985). They are thought to correlate with the Slide Mountain terrane in British Columbia and, based upon U-Pb zircon dates and fossil ages, they range from latest Devonian to Early Permian in age. The southern portion of the Finlayson Lake Fault Zone adjacent to the Wolverine Lake area is overlapped by thrust sheets of the Campbell Range Belt in a flower-fault structural relationship (Mortensen, 1996 personal communication). The ophiolitic package is interpreted to have been thrust from northeast to southwest overtop of the middle package of the LMP in the Wolverine Lake area.

The middle division of the LMP comprises dark fine-grained strongly carbonaceous metasedimentary rocks interlayered with massive to schistose



GEOLOGICAL LEGEND

Slide Mountain Terrane

-  Carbonate Rocks
-  Metavolcanic Rocks and Cherts
-  Ultramafic Rocks

Nisutlin Subterrane and Pelly Gneissic Terrane

-  Intrusive Rocks : para- and orthogneisses
-  Upper Unit : carbonate and quartzite
-  Middle Unit : mafic and felsic volcanics and carbonaceous sediments
-  Lower Unit : quartzite and marble

Autochthonous North American Rocks

-  Cambrian Limestones and Shales
-  Displaced Cambrian Limestones and Shales lying in and west of the Tintina Fault Zone
-  Minor Faults
-  Thrust Faults
-  Westmin/Pacific Bay: TY property outline



WESTMIN RESOURCES LIMITED

Work By
WESTMIN
Date Drafted
Nov. 24, 1996
Drafted By
A. Turner
Date Revised
Revised By

WIKI / YT PROJECT

Regional Geology Map

Modified after Mortensen and Jilson (1985)

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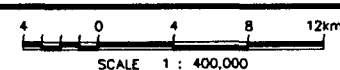


Figure
5.2

felsic volcanic to tuffaceous rocks and chloritic to amphibolitic schists after mafic tuffaceous rocks. The most significant massive sulphide occurrences in the Finlayson Lake area (Wolverine, ABM/Kudz Ze Kayah, and Fire Lake) are hosted by this volcano-sedimentary package and are associated with carbonaceous metasedimentary and/or felsic metavolcanic rocks.

6.0 PROPERTY GEOLOGY

The TY property is located in the east-central portion of the Finlayson Lake belt and is underlain by Devonian-Mississippian meta-igneous and metasedimentary rocks of the middle package of the LMP. The southern portion of the property is underlain by a package of felsic to intermediate volcanic and pyroclastic rocks. These rocks occur in a dip-slope situation on the north side of the mountain which is located in the southern portion of the claim group. These volcanic rocks commonly contain several percent disseminated to stringer pyrite and as a result, form spectacular gossans where the package outcrops along two north-draining creeks in the central east-west trending valley on the property.

More detailed mapping in the north bowl area resulted in greater control on the volcano-sedimentary stratigraphy (Figure 6.1). The southern portion of the grid is largely underlain by grey to black phyllites. A band of schistose rocks after felsic volcanic or tuffaceous rocks trends across the north grid in the area of the barite outcrop. Lithogeochemical analyses of this unit are awaited. These rocks which host the exhalative barite mineralization are capped in turn by dark phyllites.

The rocks at the lower elevations on the northern slope consist of quartz-sericite schists which are interbedded with thin (10-50 cm thick) chert bands, carbonaceous and siliceous argillites, and chlorite-quartz schists after intermediate volcanic rocks. This lower region is intruded by a weakly deformed quartz monzonite. Crystals within this intrusive consist primarily of feldspar, 0.5-

1 cm in diameter, with 10-15 % quartz and minor hornblende and biotite. At the higher elevations on the northern TY property, rocks consist of alternating carbonaceous to siliceous argillite and quartz-sericite schists. A 50 m thick quartz-sericite schist unit after felsic tuffaceous rocks is interlayered with graphitic to siliceous black argillite and hosts a barite unit up to 4 m thick which outcrops over a strike length of 30-40 m (Fig. 6.1). It pinches out to the west but dives beneath a blanket of talus along its eastern extension. The barite is light grey in colour and displays massive to bedded textures. Locally within the barite, nodules up to several decimeters in size contain coarse-grained calcite. Geochemically the barite contains >10,000 ppm Ba but low concentrations of other metals.

To the east, on the northern TY property, the rocks comprise quartz-sericite schists and chlorite +/-quartz schists after felsic and intermediate volcanic rocks, respectively. A quartz-chlorite-biotite schist with up to 1 cm diameter quartz eyes and minor feldspar crystals occurs on the northeastern TY claim block. The protolith of this rock is interpreted as a quartz +/- feldspar porphyry (Fig. 6.1).

An S_1 pervasive cleavage is present in all lithologies observed on the property. It is a penetrative foliation that is typically defined by micaceous minerals (i.e. sericite and biotite). This fabric strikes westerly and dips shallowly to the north, subparallel to S_0 on the property. Crenulations of the S_1 fabric are observed and the fold axis plunges 28° towards 050° . A 0.5 m diameter isoclinal F_2 fold, defined by the S_1 cleavage, is observed within argillites in the center of the soil grid.

6.1 Mineralization

Mineralization is very rare on the north side of the TY property. Pyrite is the only sulphide observed in the rocks. No sulphide minerals were observed in

the barite unit however boundinaged pods of medium-grained anhedral-subhedral pyrite aggregates up to 25 cm in size are present along the basal contact of the barite with the underlying quartz-sericite schist. A 1996 sample of this material contained up to 75 ppb Au, 14.2 ppm Ag, 556 ppm Cu, 310 ppm Pb, 5930 ppm Zn, and 3160 ppm Ba. Elsewhere on the property, chloritic schist from a talus slope on the northeastern corner of the soil grid (sample 271221; Fig. 6.1) contains up to 5% fine grained, disseminated pyrite. This sample returned 112 ppm Cu and 142 ppm Zn. The argillites on the central portion of the soil grid contain trace-1% boxworks, presumably representing weathered out pyrite crystals. On the eastern side of the property, adjacent to the YT claims, a quartz-sericite schist contains trace to 1% euhedral pyrite.

7.0 GEOPHYSICS

Ground total magnetic field and horizontal loop electromagnetic field (HLEM) surveys were conducted on the northern grid of the TY property. Total magnetic field surveys were conducted using a station spacing of 12.5 m and an Omni Plus proton precession magnetometer. HLEM surveys were conducted using an Apex Parametrics Maxmin I-9 with attached MMC (datalogger/computer), coil spacing of 100m, station spacing of 25 m and reading frequencies using a station spacing of 12.5 m. A copy of the geophysical report by Amerok is presented in Appendix F and the associated figures are presented in Appendix G.

The ground geophysical survey covered both the north and south. Amerok Geosciences Limited provided the geophysical interpretations given below. The spacing of the gridlines, and hence the survey, on the "south grid" was 200 m. The MAXMIN survey resulted in the recognition of only two conductors on the property. The first, TY-1, produced a strong EM response suggestive of a wide conductor width (0 to 85 m). The conductance of 1-2 siemens falls within the lower range for massive sulphide conductors and the conductor appears to be dipping into the hill

to the north at 30 degrees. It also displays a weak magnetic susceptibility. The conductor was interpreted by Amerok to be caused by graphitic argillaceous sediments. Conductor TY-2 on the south grid has very little quadrature response and little apparent lateral continuity. Amerok concluded that it is of little economic interest. Amerok does suggest that the lateral continuity could be better constrained by cutting 100 m lines and surveying them in this area. TY-2 is located on the northwestern part of the south grid, well away from the Cu in soil anomalies, which were the primary target of last years drill program, and is in an area of considerable glacio-fluvial sediment thickness. Therefore the anomaly is considered to be of low priority.

8.0 SOIL GEOCHEMISTRY

During the 1997 program a 1 km² grid was constructed with samples collected every 25 metres along north-trending lines spaced 100 metres apart (Fig. 8.1). The samples were labelled with the respective grid co-ordinates (4600E – 7625N). Table 8.1 summarises the statistical information for the 407 grid and contour samples collected on the northern TY claims. Samples of B-horizon material were taken in all instances except where soil development was poor. In these instances, samples comprised of talus fines or other C-horizon type material. Soil sample stations were marked in the field with flagging tape and a tyvex tag with the sample number written on it. Samples were partially dried in the field and then shipped to Chemex Labs in North Vancouver, B.C. for analysis. They were subsequently dried, sieved to -80 mesh, pulverized and then analysed for 24 elements using ICP-AES and Au by fire assay-atomic absorption. The results are found in Appendix E and are plotted on Figures 8.1 through 8.7, located in Appendix G.

Table 8.1 Soil Geochemistry Statistics

	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ba ppm
Minimum	2.5	0.1	19	4	48	280
Maximum	185	8.8	479	244	3350	>10000
Average	9.4	0.6	85	31	223	2892
Percentile						
95 th	30	1.8	167	69	480	5399
90 th	20	1.2	137	48	391	4946
80 th	10	1.0	113	38	275	3968
75 th	10	0.8	103	34	248	3702
50 th	2.5	0.4	72	26	173	2525
10 th	2.5	0.1	41	14	95	1400

Several linear multielement trends are observed in the 1997 soil geochemical data from the north grid. Values of up to 125 ppb Au, 8.8 ppm Ag, 479 ppm Cu, 244 ppm Pb, and 3351 ppm Zn were attained from 367 soil samples collected at 25 m intervals along the 100 m spaced grid lines. The most significant coincident Ag-Cu-Pb-Zn anomaly is linear and parallels the conductor TY-1. It is situated over what would be the structural hanging-wall of the conductor, with its southern edge coinciding with the surface trace of the conductor. A semi-coincident gold in soil anomaly occurs mainly over top of and down slope from the surface trace of the conductor. The western edge of this strong geochemical response with coincident EM conductor lies just to the east and along strike of the surface outcropping of bedded barite with pods of semi-massive pyritic massive sulphide along its lower contact. Scattered smaller-scale anomalies occur in the southern portion of the north grid.

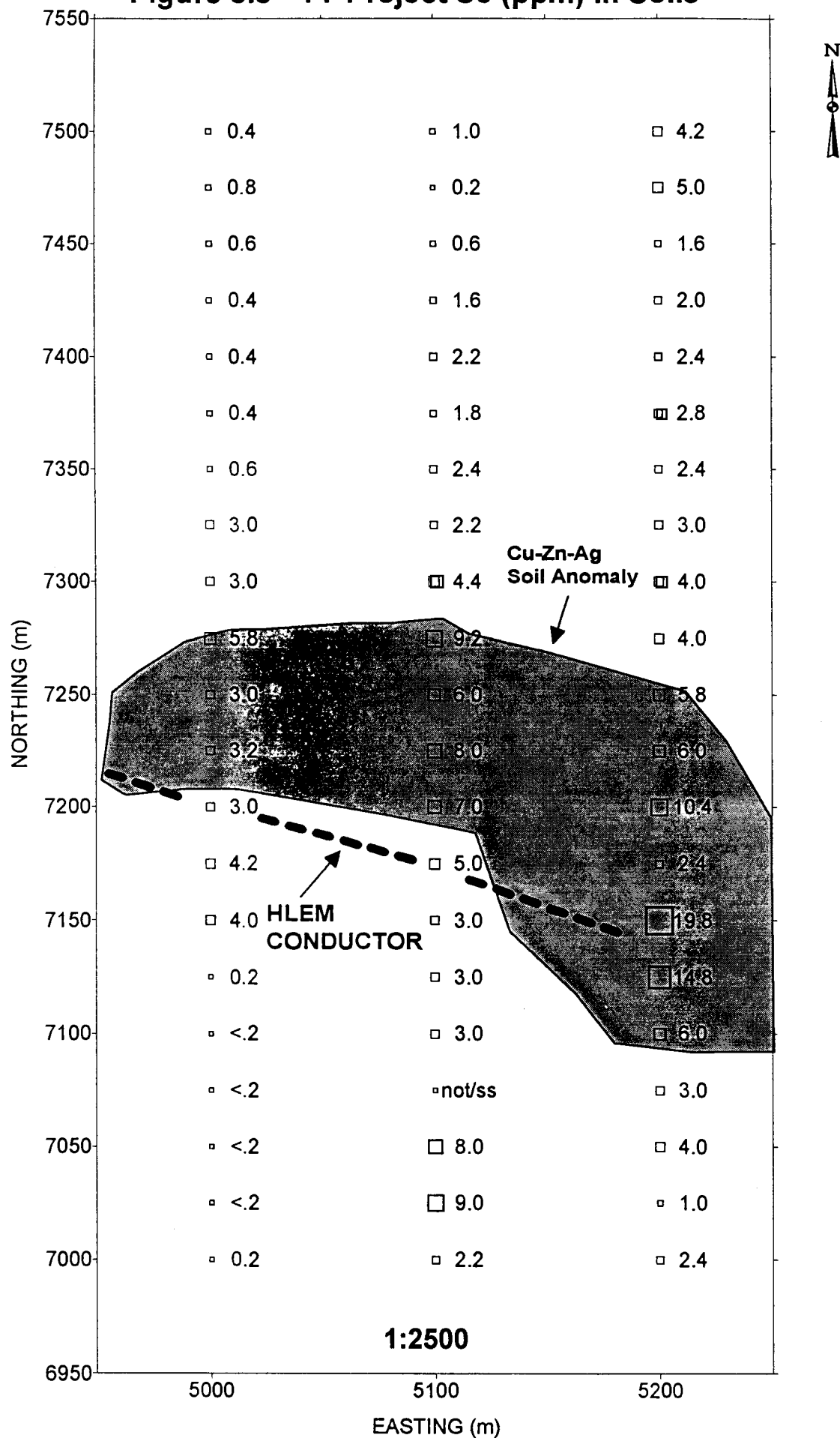
Since Se has become an important element associated with the similarly aged Wolverine massive sulphide deposit to the north, it was decided to re-run several of the anomalous soil lines from the northern TY grid for Se to determine if a correlation between anomalous base and precious metals and Se in soils could be established, as is the case over the Wolverine deposit. 62 samples were run for Se by Chemex Labs of North Vancouver by organic extraction AA. Values ranged up to 19.8 ppm Se, the higher values coinciding with the strong soil anomaly on the

north grid. Results of the Se analyses are included in Appendix D and a plot showing the Se values is given in Figure 8.8.

9.0 CONCLUSIONS AND RECOMMENDATIONS

The multielement base/precious metal soil anomaly with coincident strong EM conductor which extends for several survey lines along the approximate strike projection of a bedded barite outcrop hosted in volcanogenic schists collectively suggest a setting permissive for massive sulphide mineralization. Drilling is warranted to test the conductive unit down-dip of its surface projection. The target would be a polymetallic precious metal rich massive sulphide lens, capped and laterally flanked by the stratiform barite observed in the western portion of the bowl. A negative aspect of this prospect is that the horizontal distance between the northern claim group boundary and the surface projection of the EM conductor is slightly less than 400 m. As well, the high Se in soils suggests that if a massive sulphide source could be located for the anomaly it would likely contain high levels of Se, as is the case with the Wolverine massive sulphide.

Figure 8.8 - TY Project Se (ppm) in Soils



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APPENDIX A
STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

I, David A. Terry as agent for Westmin Resources Limited, #904-1055 Dunsmuir Street, Vancouver, B.C. do believe that a field program consisting of soil sampling, rock sampling, geologic mapping and ground geophysics was carried out on TY 1-38 between June 15 and September 30, 1997.

The following expenses were incurred during the course of this work.

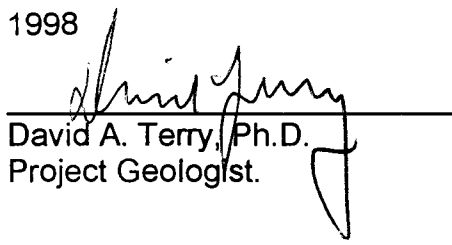
Geophysical Contractors	\$16,810
Linecutting Contractors	\$6,500
Helicopter	\$14,088
Camp Costs	\$7,117
Materials and Supplies	\$190
Fuel	\$4,125
Shipping	\$18
Geochemistry	\$11,329
Permanent Salaries	\$1,389
Temporary Salaries	\$1,710
Report Preparation Costs	\$1,000
Total expenditures	\$64,276

Notes:

1. Wages are based on actual man days spent on the property.
2. Helicopter charges are based on actual hours flown.
3. Assay charges are based on actual numbers of samples from the property.

And I make this solemn declaration conscientiously believing it to be true and knowing it is the same force and effect as if made under oath and by virtue of the Canadian Evidence Act.

Dated at Vancouver in the Province of British Columbia this 17 day of ^{March}~~February~~, 1998



David A. Terry, Ph.D.
Project Geologist.

APPENDIX B
LIST OF PERSONNEL

LIST OF PERSONNEL

David F. Gale (Geologist)
#904-1055 Dunsmuir St.
Vancouver, B. C.
V7X 1C4

David A. Terry (Project Geologist)
904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Jan Tindle (Field Assistant)
3341 Lakeside Road
Whistler, B.C
V0N 1B3

Yvonne Thorton (Field Assistant)
3341 Lakeside Road
Whistler, B.C
V0N 1B3

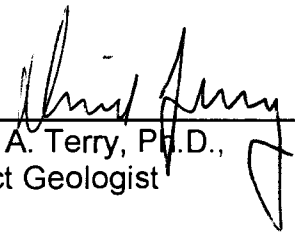
APPENDIX C
GEOLOGIST CERTIFICATE

GEOLOGIST CERTIFICATE

I, David A. Terry of 1568 Maplehurst Circle, Burnaby, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Project Geologist with Westmin Resources Limited with offices at #904-1055 Dunsmuir Street, Vancouver, British Columbia.
2. THAT I have practiced my profession with various mining companies in Ontario, Quebec, British Columbia, Yukon, the United States, Argentina, and Chile for nine years.
3. THAT I am a graduate of the University of Western Ontario and hold a Bachelor of Science in Geology (1988) and a Doctor of Philosophy in Geology (1997).
4. THAT I am a member of the Prospectors and Developers Association of Canada, the Geological Society of America, and the Society of Economic Geologists.
5. THAT this report is based on property work I personally supervised between June 15 and Sept. 30, 1997.
6. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this 17 day of March, 1998.



David A. Terry, Ph.D.,
Project Geologist

APPENDIX D
ASSAY CERTIFICATES



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9730991

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9730991

(GP W) - WESTMIN RESOURCES LTD.

Project: 6410
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-JUL-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	204	Dry, sieve to -80 mesh
202	204	save reject
285	204	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	204	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	201	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	201	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	201	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	201	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	201	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	201	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	201	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	201	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	201	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	201	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	201	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	201	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	201	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	201	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	201	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	201	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	201	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	201	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	201	Pb ppm: 24 element, rock & core	AAS	2	10000
582	201	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	201	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	201	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	201	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	201	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page : 1-A
Total Pages : 6
Certificate Date: 19-JUL-97
Invoice No. : 19730991
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T4600E 6500N	201 202	< 5	3.0	4.04	1780	1.0	< 2	0.46	1.5	5	53	34	2.16	1.21	0.44
T4600E 6525N	201 202	< 5	1.4	5.36	1750	1.5	< 2	0.75	0.5	8	68	44	4.09	1.59	0.85
T4600E 6550N	201 202	< 5	1.2	5.40	2330	1.5	< 2	0.73	1.0	9	101	62	3.44	1.62	0.79
T4600E 6575N	201 202	< 5	1.0	4.26	1780	1.0	< 2	0.54	0.5	7	76	41	2.69	1.44	0.52
T4600E 6600N	201 202	< 25	1.0	1.88	1800	0.5	< 2	0.43	5.0	1	41	30	0.98	0.66	0.25
T4600E 6625N	201 202	< 25	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
T4600E 6650N	201 202	< 10	0.6	3.46	4040	1.0	< 2	0.39	0.5	4	90	50	2.03	1.23	0.49
T4600E 6675N	201 202	< 5	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
T4600E 6700N	201 202	< 5	1.2	4.70	1890	1.5	< 2	1.07	0.5	6	93	48	3.61	1.41	0.72
T4600E 6725N	201 202	< 5	1.8	6.96	5050	2.5	< 2	0.45	2.0	8	184	116	4.34	2.66	1.20
T4600E 6750N	201 202	< 5	1.4	4.52	4970	1.5	< 2	0.51	1.0	6	111	62	2.42	1.77	0.61
T4600E 6775N	201 202	< 5	1.0	3.54	2060	1.0	< 2	0.70	1.0	5	73	58	2.50	1.12	0.56
T4600E 6800N	201 202	< 5	1.8	3.52	2640	1.0	< 2	0.37	1.5	4	73	64	1.98	1.10	0.38
T4600E 6825N	201 202	< 5	< 0.2	5.00	3820	1.5	< 2	0.37	1.5	10	120	104	3.99	1.86	0.96
T4600E 6850N	201 202	< 5	0.6	4.14	3290	1.5	< 2	0.56	1.0	6	108	86	3.18	1.46	0.76
T4600E 6875N	201 202	< 5	0.8	5.49	4660	2.0	< 2	0.65	2.0	14	157	140	4.45	1.96	1.21
T4600E 6900N	201 202	< 5	1.6	5.09	5260	1.5	< 2	0.64	1.0	3	116	64	2.63	2.08	0.71
T4600E 6925N	201 202	< 5	0.6	4.80	3340	1.5	< 2	0.67	1.0	4	91	66	2.96	1.58	0.59
T4600E 6950N	201 202	< 5	1.0	4.71	4570	1.5	< 2	0.44	1.5	5	128	94	3.15	1.74	0.56
T4600E 6975N	201 202	20	0.8	4.73	4980	2.0	< 2	0.42	6.0	14	123	119	3.32	1.71	0.58
T4600E 7000N	201 202	< 5	0.6	5.65	2570	1.5	< 2	0.29	0.5	7	67	83	3.08	1.40	0.53
T4600E 7025N	201 202	10	0.6	4.19	2770	1.5	< 2	0.59	1.0	5	77	71	3.10	1.41	0.55
T4600E 7050N	201 202	< 5	0.6	4.49	3930	1.5	< 2	0.62	0.5	7	121	67	3.03	1.69	0.58
T4600E 7075N	201 202	< 5	2.8	4.61	4280	1.5	< 2	0.50	0.5	4	104	70	3.24	1.62	0.71
T4600E 7100N	201 202	20	1.0	5.53	5050	2.0	< 2	0.27	1.5	10	116	92	4.91	2.26	0.63
T4600E 7125N	201 202	10	1.4	5.97	5450	2.5	< 2	0.17	1.5	3	203	70	3.41	2.44	0.49
T4600E 7150N	201 202	< 5	0.8	4.95	3050	1.5	< 2	0.55	0.5	6	104	80	3.98	1.72	0.61
T4600E 7175N	201 202	10	1.8	4.16	3650	1.5	< 2	0.43	2.0	6	161	155	4.14	1.52	0.51
T4600E 7200N	201 202	10	0.4	6.03	3600	2.0	< 2	0.48	0.5	6	96	67	4.24	2.22	0.74
T4600E 7225N	201 202	10	0.6	6.86	3810	2.0	< 2	0.09	0.5	7	100	71	4.47	2.72	0.61
T4600E 7250N	201 202	5	< 0.2	5.80	1780	1.5	< 2	0.10	0.5	7	95	58	3.91	2.56	0.67
T4600E 7275N	201 202	10	0.4	6.27	5330	2.0	< 2	0.35	0.5	4	110	73	4.66	2.36	0.86
T4600E 7300N	201 202	20	1.0	6.81	1770	2.0	< 2	0.33	0.5	13	139	127	6.80	2.52	0.89
T4600E 7325N	201 202	15	0.6	6.95	2720	2.0	< 2	0.25	< 0.5	10	116	81	4.45	2.64	0.78
T4600E 7350N	201 202	10	< 0.2	6.04	2290	1.5	< 2	0.37	< 0.5	9	95	73	3.84	2.26	0.66
T4600E 7375N	201 202	10	< 0.2	6.61	2420	2.0	< 2	0.35	< 0.5	7	90	84	4.10	2.48	0.68
T4600E 7400N	201 202	5	< 0.2	6.23	2420	2.0	< 2	0.29	< 0.5	7	85	85	4.97	2.39	0.61
T4600E 7425N	201 202	< 5	< 0.2	5.70	2210	2.0	< 2	0.10	< 0.5	5	75	65	3.61	2.26	0.62
T4600E 7450N	201 202	< 5	< 0.2	6.24	1850	2.0	< 2	0.48	< 0.5	12	84	79	3.80	2.26	0.70
T4600E 7475N	201 202	5	0.4	6.08	1860	2.0	< 2	0.43	< 0.5	10	83	83	3.91	2.19	0.73

CERTIFICATION: Hunt Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page: 1-B
Total Pages: 6
Certificate Date: 19-JUL-97
Invoice No.: 19730991
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS

A9730991

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T4600E 6500N	201 202	945	2	0.58	26	1770	18	90	0.36	130	< 10	106			
T4600E 6525N	201 202	930	3	0.95	36	2310	22	129	0.72	154	< 10	144			
T4600E 6550N	201 202	340	5	0.84	73	2030	20	134	0.31	215	< 10	204			
T4600E 6575N	201 202	905	1	0.59	40	3740	18	103	0.32	169	< 10	138			
T4600E 6600N	201 202	745	2	0.26	26	1170	16	50	0.13	116	< 10	116			
T4600E 6625N	201 202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T4600E 6650N	201 202	1490	6	0.43	47	1730	22	81	0.25	222	< 10	142			
T4600E 6675N	201 202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T4600E 6700N	201 202	370	3	0.89	48	2690	26	151	0.44	174	< 10	148			
T4600E 6725N	201 202	480	10	0.49	120	1980	32	100	0.28	433	< 10	388			
T4600E 6750N	201 202	4740	10	0.54	56	1980	24	113	0.32	362	< 10	182			
T4600E 6775N	201 202	615	5	0.65	56	2400	26	106	0.24	174	< 10	204			
T4600E 6800N	201 202	155	6	0.51	50	1670	18	85	0.27	192	< 10	144			
T4600E 6825N	201 202	1150	11	0.48	106	2150	24	98	0.33	267	< 10	312			
T4600E 6850N	201 202	695	8	0.56	89	2340	20	93	0.30	208	< 10	270			
T4600E 6875N	201 202	465	14	0.60	153	2600	28	129	0.38	376	< 10	422			
T4600E 6900N	201 202	355	7	0.85	57	2260	32	137	0.40	281	< 10	206			
T4600E 6925N	201 202	235	5	1.00	59	2830	48	152	0.35	204	< 10	168			
T4600E 6950N	201 202	210	9	0.62	92	2380	30	134	0.37	267	< 10	252			
T4600E 6975N	201 202	565	12	0.43	138	2780	20	193	0.29	457	< 10	442			
T4600E 7000N	201 202	210	2	0.59	56	1140	14	80	0.29	166	< 10	260			
T4600E 7025N	201 202	235	5	0.73	66	1150	30	131	0.29	194	< 10	188			
T4600E 7050N	201 202	1710	10	0.47	65	3270	32	120	0.39	491	< 10	214			
T4600E 7075N	201 202	230	5	0.43	52	1630	52	102	0.44	260	< 10	192			
T4600E 7100N	201 202	250	6	0.35	88	1490	132	117	0.34	217	< 10	326			
T4600E 7125N	201 202	155	13	0.25	60	2940	24	82	0.23	635	< 10	222			
T4600E 7150N	201 202	285	8	0.60	71	1690	22	128	0.31	265	< 10	250			
T4600E 7175N	201 202	335	15	0.25	157	3690	18	95	0.24	496	< 10	480			
T4600E 7200N	201 202	300	4	0.61	41	1060	22	138	0.30	200	< 10	178			
T4600E 7225N	201 202	175	2	0.22	40	970	26	90	0.25	194	< 10	178			
T4600E 7250N	201 202	225	3	0.21	36	850	18	102	0.38	163	< 10	138			
T4600E 7275N	201 202	275	4	0.50	41	1140	26	104	0.33	184	< 10	210			
T4600E 7300N	201 202	420	2	0.52	72	2050	110	158	0.45	193	< 10	272			
T4600E 7325N	201 202	425	1	0.42	49	1130	38	91	0.25	171	< 10	142			
T4600E 7350N	201 202	340	< 1	0.51	42	800	24	91	0.27	148	< 10	118			
T4600E 7375N	201 202	285	1	0.56	39	1060	20	92	0.24	153	< 10	124			
T4600E 7400N	201 202	315	< 1	0.49	31	890	22	75	0.24	145	< 10	162			
T4600E 7425N	201 202	340	< 1	0.21	32	930	14	35	0.17	142	< 10	108			
T4600E 7450N	201 202	430	1	0.64	45	840	16	105	0.26	138	< 10	114			
T4600E 7475N	201 202	365	< 1	0.59	40	980	22	92	0.25	140	< 10	112			

CERTIFICATION:

[Signature]



Chemex Labs Ltd.

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Page : 2-A
Total Pages : 6
Certificate Date: 19-JUL-97
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Account : GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T4600E 7500N	201	202	< 5	< 0.2	4.99	1310	1.5	< 2	0.46	< 0.5	7	67	58	3.25	1.66	0.58
T4700E 6500N	201	202	< 5	1.2	4.69	2040	1.5	< 2	1.11	< 0.5	13	75	54	3.71	1.44	1.17
T4700E 6525N	201	202	< 5	< 0.2	5.23	1890	1.5	< 2	0.97	< 0.5	7	67	42	4.06	1.55	0.98
T4700E 6550N	201	202	< 5	< 0.2	5.56	3640	2.0	< 2	2.25	0.5	14	95	52	5.48	1.61	2.55
T4700E 6575N	201	202	< 5	< 0.2	4.89	3360	1.5	< 2	0.94	1.0	10	95	60	3.35	1.45	1.04
T4700E 6600N	201	202	< 5	< 0.2	5.18	2150	1.5	< 2	0.74	0.5	7	97	48	3.49	1.63	0.76
T4700E 6625N	201	202	< 5	0.2	5.58	1330	1.0	< 2	1.79	< 0.5	6	32	24	2.24	1.39	0.84
T4700E 6650N	201	202	< 5	0.4	4.88	2850	1.5	< 2	0.80	0.5	8	107	65	3.37	1.66	0.75
T4700E 6675N	201	202	< 10	0.8	3.91	2520	1.0	< 2	0.42	0.5	8	67	45	2.25	1.39	0.40
T4700E 6700N	201	202	< 5	0.4	4.82	2430	1.5	< 2	0.36	< 0.5	4	74	36	2.66	1.96	0.44
T4700E 6725N	201	202	< 5	0.8	4.40	2630	1.5	< 2	0.47	0.5	8	82	64	3.30	1.62	0.59
T4700E 6750N	201	202	< 5	< 0.2	4.47	2490	1.5	< 2	0.72	1.0	10	103	76	3.48	1.61	0.76
T4700E 6775N	201	202	< 5	0.6	5.74	3340	2.0	< 2	0.22	0.5	13	181	75	3.61	2.18	0.64
T4700E 6800N	201	202	< 5	0.6	3.81	3090	1.5	< 2	0.37	0.5	7	95	82	2.83	1.49	0.47
T4700E 6825N	201	202	< 5	0.4	4.43	3130	1.5	< 2	0.65	1.5	8	113	103	3.61	1.46	0.82
T4700E 6850N	201	202	< 5	0.8	4.65	4070	1.5	< 2	0.61	3.0	12	134	162	4.18	1.72	0.86
T4700E 6875N	201	202	< 5	0.4	4.34	3610	1.5	< 2	0.43	0.5	< 1	71	43	2.10	1.67	0.58
T4700E 6900N	201	202	< 5	0.4	4.37	4010	1.5	< 2	0.50	1.5	3	114	76	2.64	1.67	0.65
T4700E 6925N	201	202	< 5	< 0.2	4.03	2820	1.0	< 2	0.64	1.5	5	91	67	3.17	1.37	0.57
T4700E 6950N	201	202	< 5	0.6	4.79	3760	1.5	< 2	0.55	1.5	5	109	69	3.42	1.72	0.73
T4700E 6975N	201	202	10	< 0.2	5.63	4050	1.5	< 2	0.77	1.0	3	89	41	2.96	2.06	0.86
T4700E 7000N	201	202	< 5	0.4	4.76	3940	1.5	< 2	0.68	0.5	2	90	42	2.68	1.74	0.80
T4700E 7025N	201	202	< 25	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss
T4700E 7050N	201	202	< 5	0.2	4.19	2250	1.5	< 2	0.29	0.5	5	85	101	4.20	1.31	0.83
T4700E 7075N	201	202	10	< 0.2	5.17	4190	1.5	< 2	1.06	0.5	8	101	130	5.62	1.60	1.11
T4700E 7100N	201	202	< 5	1.0	4.65	2520	1.0	< 2	0.73	< 0.5	6	81	57	3.75	1.44	0.72
T4700E 7125N	201	202	< 5	0.6	4.89	2740	1.5	< 2	0.43	0.5	5	80	54	3.86	1.62	0.61
T4700E 7150N	201	202	5	0.8	6.07	4740	2.0	< 2	0.22	0.5	4	125	52	3.98	2.34	0.71
T4700E 7175N	201	202	10	1.4	5.76	3440	2.0	< 2	0.37	0.5	4	109	66	4.45	2.09	0.61
T4700E 7200N	201	202	10	0.8	6.34	3730	2.0	< 2	0.26	0.5	4	114	52	4.24	2.66	0.65
T4700E 7225N	201	202	< 5	1.0	5.20	1820	1.5	< 2	0.49	0.5	6	107	67	4.61	1.86	0.66
T4700E 7250N	201	202	15	2.2	5.80	7120	2.5	< 2	0.74	33.5	39	179	479	7.12	1.86	1.32
T4700E 7275N	201	202	20	1.0	5.72	4200	1.5	< 2	1.94	1.5	9	242	102	5.92	2.05	2.52
T4700E 7300N	201	202	10	1.0	6.30	3470	2.0	< 2	0.13	1.5	21	95	120	5.15	2.49	0.53
T4700E 7325N	201	202	5	< 0.2	5.83	2140	1.5	< 2	0.24	< 0.5	16	86	101	4.76	2.05	0.68
T4700E 7350N	201	202	< 5	0.4	6.22	1860	1.5	< 2	0.50	< 0.5	12	87	91	4.51	2.10	0.71
T4700E 7375N	201	202	10	0.2	6.46	2140	2.0	< 2	0.47	< 0.5	5	90	72	4.08	2.55	0.70
T4700E 7400N	201	202	< 5	< 0.2	6.00	1980	2.0	< 2	0.38	< 0.5	4	79	49	2.86	2.32	0.64
T4700E 7425N	201	202	10	< 0.2	6.08	1790	2.0	< 2	0.35	< 0.5	2	76	50	2.86	2.36	0.58
T4700E 7450N	201	202	< 5	< 0.2	5.57	1310	1.5	< 2	0.48	< 0.5	3	72	41	2.93	1.94	0.56

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

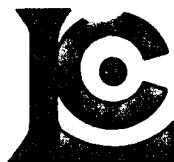
Project: 6410
Comments: ATTN: DAVID TERRY

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Certificate Date: 19-JUL-97
Invoice No.: 19730991
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T4600E 7500N	201 202	325	3	0.64	31	920	16	92	0.23	115	< 10	94			
T4700E 6500N	201 202	1185	6	0.83	43	2200	18	150	0.54	146	< 10	130			
T4700E 6525N	201 202	965	4	1.07	37	1800	20	170	0.66	154	< 10	138			
T4700E 6550N	201 202	1145	3	0.70	53	2490	12	213	1.12	256	< 10	150			
T4700E 6575N	201 202	500	7	0.81	63	2070	20	150	0.37	191	< 10	174			
T4700E 6600N	201 202	455	4	0.86	54	2520	18	131	0.33	187	< 10	144			
T4700E 6625N	201 202	1710	5	1.67	18	1530	8	428	0.28	107	< 10	74			
T4700E 6650N	201 202	370	5	0.74	71	1720	20	142	0.35	181	< 10	178			
T4700E 6675N	201 202	1885	5	0.48	42	3230	16	112	0.23	150	< 10	116			
T4700E 6700N	201 202	740	5	0.53	33	1390	16	84	0.29	154	< 10	120			
T4700E 6725N	201 202	295	5	0.58	63	1420	24	117	0.26	145	< 10	182			
T4700E 6750N	201 202	515	7	0.68	77	2090	22	126	0.37	170	< 10	214			
T4700E 6775N	201 202	315	5	0.36	104	1300	22	79	0.24	201	< 10	248			
T4700E 6800N	201 202	280	7	0.47	72	1530	22	91	0.28	205	< 10	218			
T4700E 6825N	201 202	295	8	0.61	96	2120	28	120	0.31	230	< 10	298			
T4700E 6850N	201 202	385	11	0.44	139	2570	26	117	0.30	272	< 10	432			
T4700E 6875N	201 202	185	6	0.81	31	2380	12	106	0.32	152	< 10	136			
T4700E 6900N	201 202	245	8	0.70	64	2170	20	114	0.33	248	< 10	220			
T4700E 6925N	201 202	335	6	0.77	56	3280	18	122	0.32	177	< 10	212			
T4700E 6950N	201 202	320	5	0.79	54	1640	16	119	0.39	176	< 10	184			
T4700E 6975N	201 202	305	5	1.11	27	1360	14	151	0.43	162	< 10	110			
T4700E 7000N	201 202	525	4	0.66	28	1760	10	115	0.33	166	< 10	102			
T4700E 7025N	201 202	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss	not/ss			
T4700E 7050N	201 202	305	4	0.34	40	2540	12	77	0.22	122	< 10	148			
T4700E 7075N	201 202	350	6	0.87	53	1880	14	203	0.44	171	< 10	188			
T4700E 7100N	201 202	290	5	0.82	47	1190	14	143	0.35	142	< 10	162			
T4700E 7125N	201 202	265	4	0.63	43	1060	14	112	0.29	171	< 10	176			
T4700E 7150N	201 202	195	8	0.33	47	1080	18	97	0.34	294	< 10	184			
T4700E 7175N	201 202	250	15	0.50	46	1320	18	115	0.26	317	< 10	216			
T4700E 7200N	201 202	200	10	0.33	44	1110	18	105	0.21	345	< 10	212			
T4700E 7225N	201 202	345	15	0.59	62	1530	16	147	0.26	315	< 10	378			
T4700E 7250N	201 202	1365	107	0.44	468	2320	42	131	0.38	1675	10	3350			
T4700E 7275N	201 202	610	9	0.51	87	2830	60	162	0.81	314	< 10	248			
T4700E 7300N	201 202	550	2	0.25	89	1180	82	231	0.17	182	< 10	316			
T4700E 7325N	201 202	445	3	0.36	67	1160	24	83	0.20	152	< 10	214			
T4700E 7350N	201 202	370	4	0.71	54	880	24	114	0.26	151	< 10	184			
T4700E 7375N	201 202	300	3	0.60	32	710	22	97	0.26	149	< 10	124			
T4700E 7400N	201 202	200	3	0.60	18	640	24	82	0.22	131	< 10	54			
T4700E 7425N	201 202	195	4	0.55	15	630	28	73	0.19	133	< 10	48			
T4700E 7450N	201 202	305	2	0.68	17	900	30	88	0.22	124	< 10	58			

CERTIFICATION:



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V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

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CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T4700E 7475N	201 202	10	< 0.2	5.84	1920	2.0	< 2	0.41	< 0.5	3	77	50	2.95	2.12	0.53
T4700E 7500N	201 202	10	< 0.2	5.50	1170	1.5	< 2	0.51	< 0.5	4	69	42	2.90	1.84	0.56
T4800E 6500N	201 202	< 5	2.0	3.88	1230	0.5	< 2	1.13	0.5	8	57	28	2.60	1.04	0.88
T4800E 6525N	201 202	< 5	< 0.2	5.15	2100	1.5	< 2	1.12	< 0.5	8	89	37	3.20	1.75	1.10
T4800E 6550N	201 202	< 5	0.6	4.36	1740	1.0	< 2	1.70	0.5	35	201	36	4.14	1.40	1.81
T4800E 6575N	201 202	< 5	< 0.2	4.74	1720	1.5	< 2	2.18	< 0.5	12	75	47	5.01	1.26	2.14
T4800E 6600N	201 202	< 5	< 0.2	5.40	2860	1.5	< 2	0.31	0.5	9	70	50	2.88	2.33	0.64
T4800E 6625N	201 202	< 5	< 0.2	4.79	2340	1.5	< 2	0.28	0.5	9	74	60	3.43	1.88	0.70
T4800E 6650N	201 202	< 5	8.8	4.89	4130	2.0	< 2	0.36	0.5	8	126	109	3.86	1.68	0.84
T4800E 6675N	201 202	5	0.6	4.72	4440	1.5	< 2	0.32	0.5	5	92	74	3.13	1.78	0.48
T4800E 6675N	201 202	< 5	0.2	4.43	3940	1.5	< 2	0.38	0.5	5	91	66	3.05	1.53	0.45
T4800E 6700N	201 202	5	0.4	4.24	5400	1.5	< 2	0.44	0.5	4	117	70	2.96	1.38	0.43
T4800E 6725N	201 202	< 5	0.8	4.47	6220	1.5	< 2	0.37	1.5	4	114	83	2.56	1.39	0.42
T4800E 6750N	201 202	< 5	0.4	5.74	7550	2.0	< 2	0.48	1.5	5	161	99	2.85	1.98	0.63
T4800E 6775N	201 202	< 5	2.0	6.61	>10000	3.5	< 2	0.95	4.5	29	383	220	5.30	1.96	0.79
T4800E 6800N	201 202	15	0.4	6.44	4490	2.0	< 2	0.50	2.0	31	452	131	4.20	1.97	1.61
T4800E 6825N	201 202	< 5	< 0.2	7.13	1780	1.5	< 2	1.70	< 0.5	8	60	43	3.47	2.03	1.02
T4800E 6850N	201 202	< 5	< 0.2	6.06	3190	1.5	< 2	0.30	0.5	8	165	83	3.78	1.90	0.82
T4800E 6875N	201 202	< 5	< 0.2	5.53	2240	1.0	< 2	1.21	0.5	7	70	57	2.79	1.61	0.83
T4800E 6900N	201 202	< 5	1.2	5.46	5000	2.0	< 2	0.69	3.0	16	212	175	4.87	1.85	1.04
T4800E 6925N	201 202	< 10	0.6	4.55	3440	1.5	< 2	0.50	1.0	7	130	123	3.39	1.59	0.58
T4800E 6950N	201 202	< 5	1.4	4.05	4020	2.0	< 2	0.42	2.5	7	126	103	2.74	1.33	0.58
T4800E 6975N	201 202	< 5	< 0.2	7.08	4550	2.0	< 2	1.34	1.0	5	142	86	3.11	1.98	1.16
T4800E 7000N	201 202	< 5	0.4	5.53	2070	1.5	< 2	1.11	< 0.5	5	71	65	3.13	1.57	0.77
T4800E 7025N	201 202	< 5	0.8	6.80	5390	2.0	< 2	0.56	2.0	16	206	162	4.49	2.38	0.93
T4800E 7050N	201 202	< 5	< 0.2	6.74	2040	1.5	< 2	1.04	0.5	7	52	57	2.63	2.11	0.75
T4800E 7075N	201 202	< 5	< 0.2	6.78	3630	2.0	< 2	0.25	< 0.5	1	109	59	3.65	2.72	0.75
T4800E 7100N	201 202	< 5	< 0.2	6.42	4870	2.0	< 2	0.82	1.0	14	92	102	4.25	2.21	1.03
T4800E 7125N	201 202	10	0.8	6.12	4160	2.0	< 2	0.60	2.0	7	111	102	4.66	2.32	0.77
T4800E 7150N	201 202	20	0.6	7.19	5690	2.0	< 2	0.20	0.5	11	128	104	5.51	2.89	0.83
T4800E 7175N	201 202	10	0.4	6.12	2850	2.0	< 2	0.25	0.5	10	91	98	4.66	2.24	0.69
T4800E 7200N	201 202	85	0.8	6.16	2000	2.0	< 2	0.19	< 0.5	7	120	110	5.53	2.45	0.70
T4800E 7225N	201 202	20	< 0.2	6.44	3440	2.0	< 2	0.19	< 0.5	3	87	72	3.60	2.43	0.64
T4800E 7250N	201 202	40	2.4	5.49	550	1.5	< 2	0.07	< 0.5	4	101	71	5.23	2.34	0.62
T4800E 7275N	201 202	40	0.8	6.10	1770	1.5	2	0.43	< 0.5	1	108	73	4.99	2.48	0.86
T4800E 7300N	201 202	35	1.2	7.43	800	2.5	< 2	0.14	< 0.5	3	117	72	6.82	3.39	0.77
T4800E 7325N	201 202	20	< 0.2	5.50	1670	1.5	< 2	0.39	< 0.5	10	136	130	5.59	1.77	0.95
T4800E 7350N	201 202	10	< 0.2	6.87	2330	2.0	< 2	0.38	< 0.5	5	99	104	4.82	2.48	0.77
T4800E 7375N	201 202	10	< 0.2	6.37	2220	2.0	< 2	0.23	< 0.5	2	92	71	3.60	2.42	0.59
T4800E 7400N	201 202	10	< 0.2	6.79	2140	2.0	< 2	0.35	0.5	3	100	52	2.74	2.61	0.61

CERTIFICATION:



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SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T4700E 7475N	201 202	220	1	0.61	17	830	16	77	0.22	130	< 10	56			
T4700E 7500N	201 202	365	1	0.75	22	810	20	97	0.24	124	< 10	70			
T4800E 6500N	201 202	2190	1	0.82	23	1630	18	157	0.53	107	< 10	58			
T4800E 6525N	201 202	1160	3	0.90	33	1380	18	159	0.70	164	< 10	92			
T4800E 6550N	201 202	6590	1	0.69	67	2970	20	179	0.65	149	< 10	118			
T4800E 6575N	201 202	1370	2	0.61	42	1660	18	226	0.88	188	< 10	96			
T4800E 6600N	201 202	545	3	0.74	27	1370	66	85	0.44	135	< 10	110			
T4800E 6625N	201 202	670	4	0.48	38	1500	34	75	0.31	147	< 10	130			
T4800E 6650N	201 202	440	6	0.42	75	2840	40	89	0.31	329	< 10	296			
T4800E 6675N	201 202	305	5	0.42	61	2400	36	108	0.22	195	< 10	196			
T4800E 6675N	201 202	210	4	0.49	57	1320	28	113	0.28	207	< 10	160			
T4800E 6700N	201 202	420	6	0.52	79	3000	24	137	0.24	267	< 10	196			
T4800E 6725N	201 202	205	6	0.46	75	3270	36	182	0.21	315	< 10	236			
T4800E 6750N	201 202	275	8	0.63	98	2420	34	171	0.27	379	< 10	254			
T4800E 6775N	201 202	2770	20	0.62	257	4970	26	261	0.28	935	< 10	822			
T4800E 6800N	201 202	880	12	0.36	249	2940	28	148	0.27	616	< 10	416			
T4800E 6825N	201 202	420	3	1.87	33	1200	14	421	0.38	148	< 10	114			
T4800E 6850N	201 202	285	7	0.52	84	3460	22	92	0.29	218	< 10	252			
T4800E 6875N	201 202	355	4	1.41	52	2460	16	312	0.27	178	< 10	192			
T4800E 6900N	201 202	780	15	0.31	184	3920	38	89	0.36	354	< 10	532			
T4800E 6925N	201 202	1295	13	0.50	97	2780	26	118	0.25	333	< 10	498			
T4800E 6950N	201 202	380	13	0.40	94	4380	32	84	0.23	577	< 10	354			
T4800E 6975N	201 202	395	7	1.53	79	1690	26	352	0.28	441	< 10	322			
T4800E 7000N	201 202	330	5	1.27	48	1520	24	282	0.32	178	< 10	168			
T4800E 7025N	201 202	560	17	0.63	176	2340	28	213	0.40	366	< 10	474			
T4800E 7050N	201 202	375	3	1.48	30	890	20	295	0.19	151	< 10	122			
T4800E 7075N	201 202	170	3	0.44	25	1310	14	84	0.19	225	< 10	108			
T4800E 7100N	201 202	505	5	1.17	64	1790	14	187	0.43	172	< 10	188			
T4800E 7125N	201 202	380	25	0.72	83	1630	18	230	0.28	477	< 10	594			
T4800E 7150N	201 202	435	5	0.31	66	1530	32	101	0.30	228	< 10	252			
T4800E 7175N	201 202	360	2	0.39	47	1130	36	89	0.18	163	< 10	220			
T4800E 7200N	201 202	215	6	0.33	62	1480	22	93	0.41	233	< 10	208			
T4800E 7225N	201 202	175	< 1	0.38	26	860	24	71	0.24	160	< 10	98			
T4800E 7250N	201 202	165	9	0.18	38	1270	42	98	0.41	265	< 10	190			
T4800E 7275N	201 202	190	5	0.29	25	1520	30	64	0.27	254	< 10	148			
T4800E 7300N	201 202	185	3	0.23	28	1250	30	91	0.19	187	< 10	142			
T4800E 7325N	201 202	340	< 1	0.49	64	1280	32	80	0.22	141	< 10	168			
T4800E 7350N	201 202	285	3	0.50	28	1290	40	80	0.26	173	< 10	132			
T4800E 7375N	201 202	195	2	0.34	19	1030	40	56	0.23	154	< 10	88			
T4800E 7400N	201 202	215	1	0.52	20	740	22	76	0.21	155	< 10	64			

CERTIFICATION:

David B. Allen



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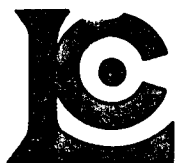
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T4800E 7425N	201	202	10	< 0.2	6.45	1680	2.0	< 2	0.39	< 0.5	6	99	71	3.24	2.40	0.54
T4800E 7450N	201	202	10	< 0.2	6.36	1470	2.0	< 2	0.66	0.5	5	85	54	3.28	2.18	0.69
T4900E 6500N	201	202	< 5	< 0.2	5.24	1330	1.5	< 2	1.65	< 0.5	18	84	58	5.07	1.46	1.36
T4900E 6525N	201	202	< 5	< 0.2	5.62	1840	1.5	< 2	1.66	0.5	12	96	45	3.56	1.72	1.28
T4900E 6550N	201	202	< 5	< 0.2	5.76	1390	1.5	< 2	1.04	0.5	7	55	37	2.74	1.74	0.71
T4900E 6575N	201	202	< 5	< 0.2	5.37	1430	1.0	< 2	1.42	< 0.5	9	67	56	4.23	1.50	1.17
T4900E 6600N	201	202	< 5	< 0.2	4.37	1230	0.5	< 2	0.98	0.5	6	32	25	1.87	1.27	0.56
T4900E 6625N	201	202	< 5	< 0.2	6.59	1110	1.0	< 2	1.72	< 0.5	4	20	19	1.76	1.81	0.69
T4900E 6650N	201	202	< 5	0.6	5.15	2290	1.5	< 2	0.65	0.5	14	140	63	3.87	1.56	1.57
T4900E 6675N	201	202	< 5	0.4	6.04	1420	1.0	< 2	1.34	0.5	4	26	25	1.57	1.84	0.50
T4900E 6700N	201	202	< 5	1.2	6.18	5360	3.0	< 2	0.82	3.0	15	307	262	3.72	2.41	1.35
T4900E 6725N	201	202	< 5	0.6	4.91	3980	1.5	< 2	0.27	0.5	7	88	58	2.90	1.97	0.44
T4900E 6750N	201	202	< 5	< 0.2	4.63	4620	1.5	< 2	0.40	0.5	6	87	61	2.69	1.67	0.43
T4900E 6775N	201	202	< 5	< 0.2	7.16	1030	1.0	< 2	1.74	< 0.5	3	16	20	1.73	2.10	0.61
T4900E 6800N	201	202	30	1.0	5.81	5950	2.0	< 2	0.31	2.5	25	334	120	3.96	2.19	0.55
T4900E 6825N	201	202	5	0.6	5.22	5310	2.0	< 2	0.24	1.0	11	133	75	3.15	2.02	0.64
T4900E 6850N	201	202	< 5	0.6	6.64	5360	2.5	< 2	0.23	1.0	9	146	92	4.02	2.67	0.88
T4900E 6875N	201	202	< 5	1.0	6.12	4040	2.0	< 2	0.37	3.0	17	147	119	3.89	2.50	0.76
T4900E 6900N	201	202	< 5	< 0.2	6.33	1300	1.0	< 2	1.35	< 0.5	6	29	29	2.05	1.87	0.58
T4900E 6925N	201	202	< 5	< 0.2	4.04	2390	1.0	< 2	0.66	2.0	9	89	68	2.80	1.34	0.54
T4900E 6950N	201	202	< 5	< 0.2	5.32	2910	1.5	< 2	0.40	0.5	14	112	79	3.83	1.93	0.67
T4900E 6975N	201	202	< 5	< 0.2	6.52	3010	2.0	< 2	0.36	1.5	24	128	84	4.21	2.49	0.84
T4900E 7000N	201	202	< 5	< 0.2	4.93	4040	2.0	< 2	0.37	3.0	18	153	98	4.42	1.67	1.08
T4900E 7025N	201	202	25	1.0	7.81	4760	2.5	< 2	0.38	4.0	13	151	107	4.54	3.16	1.02
T4900E 7050N	201	202	20	0.8	7.09	6060	2.0	< 2	0.60	3.0	23	146	110	4.66	2.59	1.19
T4900E 7075N	201	202	15	0.8	6.88	5220	2.0	< 2	0.41	3.0	37	154	158	4.65	2.55	0.89
T4900E 7100N	201	202	10	0.4	7.73	5040	2.5	< 2	0.24	0.5	11	129	113	5.01	3.04	1.01
T4900E 7125N	201	202	25	0.6	7.34	1440	2.5	< 2	0.50	< 0.5	12	147	123	6.11	2.83	1.11
T4900E 7150N	201	202	105	0.6	6.33	4680	2.0	< 2	0.56	2.0	17	146	103	5.08	2.54	1.08
T4900E 7175N	201	202	70	0.8	5.86	4000	2.0	< 2	0.43	3.5	36	102	140	4.59	2.04	0.71
T4900E 7200N	201	202	50	0.4	6.27	2160	2.0	< 2	0.41	1.0	17	186	107	4.95	1.90	0.97
T4900E 7225N	201	202	< 5	< 0.2	4.53	2320	1.5	< 2	0.34	0.5	4	77	50	3.29	1.52	0.49
T4900E 7250N	201	202	30	1.0	5.25	2670	2.0	< 2	0.41	1.5	19	95	97	4.92	1.92	0.69
T4900E 7275N	201	202	20	0.4	5.17	1700	1.5	< 2	0.37	< 0.5	4	73	53	3.45	1.74	0.51
T4900E 7300N	201	202	10	1.4	7.15	1970	2.0	< 2	0.48	< 0.5	7	101	77	3.80	2.08	0.77
T4900E 7325N	201	202	5	< 0.2	6.34	1870	2.0	< 2	0.36	< 0.5	5	86	64	3.23	2.40	0.58
T4900E 7350N	201	202	10	< 0.2	6.79	2010	2.0	< 2	0.27	< 0.5	6	87	67	3.38	2.60	0.56
T4900E 7375N	201	202	< 5	< 0.2	6.67	1880	2.0	< 2	0.43	< 0.5	4	89	52	3.20	2.47	0.60
T4900E 7400N	201	202	< 5	< 0.2	6.90	1990	2.0	< 2	0.35	< 0.5	3	88	56	2.97	2.62	0.53
T4900E 7425N	201	202	< 5	< 0.2	7.01	2000	2.0	< 2	0.31	< 0.5	3	89	53	2.84	2.60	0.53

CERTIFICATION:

David Terry



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page : 4-B
Total : 6
Certificate Date: 19-JUL-97
Invoice No. : 19730991
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T4800E 7425N	201 202	200	1	0.55	27	720	24	87	0.21	142	< 10	84			
T4800E 7450N	201 202	330	3	0.78	28	810	20	106	0.29	140	< 10	86			
T4900E 6500N	201 202	1035	3	1.11	40	1770	24	248	0.67	138	< 10	96			
T4900E 6525N	201 202	1295	2	1.19	34	2750	20	245	0.68	147	< 10	92			
T4900E 6550N	201 202	970	1	1.34	21	3230	14	239	0.39	106	< 10	72			
T4900E 6575N	201 202	815	2	1.25	36	2000	20	249	0.54	119	< 10	90			
T4900E 6600N	201 202	1060	1	1.16	16	2760	16	223	0.21	70	< 10	88			
T4900E 6625N	201 202	380	2	2.26	10	1940	8	465	0.22	72	< 10	70			
T4900E 6650N	201 202	1110	4	0.68	78	2260	34	106	0.39	193	< 10	148			
T4900E 6675N	201 202	845	3	2.03	14	2170	12	390	0.18	90	< 10	82			
T4900E 6700N	201 202	1180	46	0.27	284	4780	36	123	0.37	1995	< 10	754			
T4900E 6725N	201 202	2780	4	0.34	59	2810	22	89	0.22	194	< 10	180			
T4900E 6750N	201 202	295	5	0.57	59	1760	22	131	0.23	215	< 10	168			
T4900E 6775N	201 202	455	< 1	2.67	8	1430	10	489	0.19	57	< 10	62			
T4900E 6800N	201 202	1370	7	0.45	199	2650	32	183	0.22	261	< 10	458			
T4900E 6825N	201 202	1065	11	0.36	75	1770	36	90	0.29	432	< 10	216			
T4900E 6850N	201 202	555	12	0.35	94	1660	28	101	0.36	444	< 10	252			
T4900E 6875N	201 202	815	15	0.36	109	2280	32	113	0.24	702	< 10	472			
T4900E 6900N	201 202	680	1	2.01	15	1780	14	382	0.19	80	< 10	80			
T4900E 6925N	201 202	1005	7	0.69	71	2860	24	139	0.22	239	< 10	310			
T4900E 6950N	201 202	530	7	0.44	84	1930	28	94	0.25	224	< 10	254			
T4900E 6975N	201 202	965	5	0.54	95	1870	32	119	0.24	184	< 10	246			
T4900E 7000N	201 202	1450	12	0.33	102	4930	44	68	0.35	403	< 10	418			
T4900E 7025N	201 202	545	10	0.40	70	1710	36	106	0.28	388	< 10	432			
T4900E 7050N	201 202	775	7	0.62	94	2040	32	134	0.44	248	< 10	274			
T4900E 7075N	201 202	700	6	0.36	150	1970	64	121	0.35	299	< 10	378			
T4900E 7100N	201 202	280	5	0.37	87	1750	22	131	0.38	257	< 10	218			
T4900E 7125N	201 202	330	7	0.40	81	2610	20	157	0.49	279	< 10	210			
T4900E 7150N	201 202	485	5	0.31	94	1790	20	107	0.44	267	< 10	276			
T4900E 7175N	201 202	935	11	0.52	173	1450	26	105	0.28	273	< 10	480			
T4900E 7200N	201 202	455	3	0.41	131	1600	22	115	0.46	231	< 10	268			
T4900E 7225N	201 202	395	3	0.43	27	1570	20	77	0.21	156	< 10	118			
T4900E 7250N	201 202	405	8	0.45	61	1540	26	133	0.28	200	< 10	248			
T4900E 7275N	201 202	225	1	0.46	25	960	24	72	0.21	135	< 10	104			
T4900E 7300N	201 202	325	1	0.70	34	1140	28	100	0.25	167	< 10	116			
T4900E 7325N	201 202	240	1	0.50	25	720	30	70	0.23	148	< 10	88			
T4900E 7350N	201 202	225	2	0.42	29	740	24	57	0.20	151	< 10	98			
T4900E 7375N	201 202	265	< 1	0.59	24	700	26	79	0.25	153	< 10	90			
T4900E 7400N	201 202	190	< 1	0.50	23	700	24	75	0.25	152	< 10	74			
T4900E 7425N	201 202	205	2	0.47	24	720	28	68	0.23	154	< 10	80			

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page: 5-A
Total Pages: 6
Certificate Date: 19-JUL-97
Invoice No.: 19730991
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T4900E 7450N	201	202	< 5	< 0.2	4.96	1150	1.5	< 2	0.50	< 0.5	4	65	41	2.86	1.63	0.51
T4900E 7475N	201	202	< 5	< 0.2	5.99	1540	2.0	< 2	0.50	< 0.5	8	78	52	3.16	2.18	0.58
T4900E 7500N	201	202	< 5	< 0.2	7.85	2190	2.5	< 2	0.23	< 0.5	3	98	65	3.46	3.00	0.58
T5000E 6500N	201	202	< 5	1.0	6.98	800	1.5	< 2	1.54	1.0	4	8	23	1.85	1.89	0.59
T5000E 6525N	201	202	< 5	< 0.2	5.84	1480	1.5	< 2	1.23	1.0	27	78	72	4.59	1.73	1.20
T5000E 6550N	201	202	< 5	< 0.2	5.48	1400	1.5	< 2	1.25	< 0.5	12	92	57	4.43	1.53	1.26
T5000E 6575N	201	202	< 5	< 0.2	6.13	940	1.0	< 2	1.52	< 0.5	6	21	23	1.91	1.77	0.63
T5000E 6600N	201	202	< 5	< 0.2	5.43	1050	1.5	< 2	2.66	< 0.5	12	204	59	6.49	1.44	3.26
T5000E 6625N	201	202	< 5	< 0.2	4.96	1980	1.5	< 2	1.07	0.5	12	105	53	3.99	1.58	1.25
T5000E 6650N	201	202	< 5	< 0.2	6.07	1320	1.5	< 2	1.63	< 0.5	10	57	44	2.77	1.59	0.96
T5000E 6675N	201	202	< 5	< 0.2	5.72	2220	2.0	< 2	3.06	< 0.5	42	184	69	7.06	1.41	3.29
T5000E 6700N	201	202	< 5	< 0.2	5.33	2360	1.5	< 2	0.93	< 0.5	20	113	80	5.91	1.66	1.19
T5000E 6725N	201	202	< 5	0.6	5.71	6200	2.5	< 2	0.26	1.0	11	147	123	3.25	2.12	0.85
T5000E 6750N	201	202	< 5	2.4	5.10	4220	2.0	< 2	0.28	0.5	10	101	93	3.46	1.95	0.60
T5000E 6775N	201	202	< 5	1.0	6.21	6970	2.0	< 2	0.27	1.0	8	152	110	3.27	2.36	0.58
T5000E 6800N	201	202	15	1.2	5.87	7490	2.0	< 2	0.37	1.5	15	161	148	3.97	2.24	0.62
T5000E 6825N	201	202	10	0.6	6.42	5260	2.0	< 2	0.80	1.0	7	90	77	2.95	2.16	0.58
T5000E 6850N	201	202	< 5	1.0	6.81	5080	2.0	< 2	0.54	1.0	9	147	92	3.52	2.40	0.68
T5000E 6875N	201	202	< 5	1.8	5.52	8800	2.5	< 2	0.42	3.5	22	225	159	3.32	2.10	0.73
T5000E 6900N	201	202	20	4.4	4.93	7770	2.0	< 2	0.55	6.0	12	162	204	4.25	1.42	0.66
T5000E 6925N	201	202	< 5	1.4	4.51	7020	1.5	< 2	0.29	1.5	4	158	91	2.36	1.46	0.59
T5000E 6950N	201	202	10	0.6	5.82	3810	2.0	< 2	0.47	1.5	8	117	70	3.56	1.96	0.97
T5000E 6975N	201	202	< 5	0.4	6.73	3730	2.0	< 2	0.38	0.5	5	104	61	3.89	2.46	0.89
T5000E 7000N	201	202	< 5	0.4	6.03	3880	2.0	< 2	0.28	0.5	5	109	49	3.20	2.35	0.81
T5000E 7025N	201	202	< 5	< 0.2	6.83	4050	2.0	< 2	0.12	< 0.5	5	113	46	3.49	2.61	0.65
T5000E 7050N	201	202	< 5	0.2	6.93	3110	1.5	< 2	0.70	1.0	14	197	61	3.96	2.19	1.37
T5000E 7075N	201	202	10	1.4	6.58	5930	2.5	< 2	0.59	12.0	38	236	210	5.44	2.57	2.06
T5000E 7100N	201	202	10	1.4	5.73	4890	2.0	< 2	0.43	2.5	18	165	116	4.09	1.95	0.98
T5000E 7125N	201	202	10	0.6	5.88	2970	1.5	< 2	0.91	1.5	9	99	66	3.23	1.90	0.77
T5000E 7150N	201	202	125	1.2	5.99	2360	2.0	< 2	0.25	3.5	32	132	127	4.87	2.38	0.76
T5000E 7175N	201	202	70	1.0	6.98	2830	2.0	< 2	0.17	0.5	13	135	102	5.26	2.84	0.84
T5000E 7200N	201	202	35	0.8	6.68	2080	2.0	< 2	0.08	< 0.5	8	118	74	4.58	2.83	0.74
T5000E 7225N	201	202	30	1.0	6.79	2920	2.5	< 2	0.16	1.0	18	136	136	5.88	2.75	0.78
T5000E 7250N	201	202	30	1.2	6.35	5810	2.0	< 2	0.26	8.0	41	144	227	6.05	2.33	0.89
T5000E 7275N	201	202	25	1.4	6.80	1830	2.5	< 2	0.20	2.5	33	153	180	7.20	2.54	0.95
T5000E 7300N	201	202	25	0.6	7.30	3700	2.0	< 2	0.13	< 0.5	14	106	112	5.30	2.84	0.66
T5000E 7325N	201	202	20	1.2	7.71	5920	2.5	< 2	0.19	1.5	21	154	159	6.04	2.98	0.96
T5000E 7350N	201	202	20	0.6	6.61	3050	2.0	< 2	0.22	< 0.5	13	99	104	4.67	2.52	0.71
T5000E 7375N	201	202	25	0.8	8.61	3530	2.5	< 2	0.21	0.5	9	119	126	5.14	3.22	0.81
T5000E 7400N	201	202	10	0.4	7.36	2480	2.0	< 2	0.40	< 0.5	8	89	90	4.12	2.40	0.74

CERTIFICATION:



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VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Pag: ber :5-B
Total :6
Certificate Date: 19-JUL-97
Invoice No. :19730991
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS

A9730991

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T4900E 7450N	201 202	275	1	0.64	23	720	22	86	0.22	110	< 10	80			
T4900E 7475N	201 202	305	1	0.65	29	690	20	87	0.24	133	< 10	96			
T4900E 7500N	201 202	190	2	0.41	27	790	32	53	0.21	174	< 10	96			
T5000E 6500N	201 202	445	1	2.42	5	1380	14	434	0.20	38	< 10	60			
T5000E 6525N	201 202	2350	5	1.05	38	2390	100	164	0.55	146	< 10	260			
T5000E 6550N	201 202	1025	4	1.19	38	1550	24	159	0.57	149	< 10	102			
T5000E 6575N	201 202	1400	1	2.11	10	1560	14	401	0.23	57	< 10	66			
T5000E 6600N	201 202	1335	1	0.85	79	3070	32	215	1.09	185	< 10	106			
T5000E 6625N	201 202	1350	1	0.79	41	3760	32	127	0.57	168	< 10	128			
T5000E 6650N	201 202	750	2	1.67	29	2840	16	333	0.39	100	< 10	70			
T5000E 6675N	201 202	2700	2	0.62	103	3830	20	346	1.20	260	< 10	134			
T5000E 6700N	201 202	1820	7	0.94	61	3490	16	155	0.72	209	< 10	96			
T5000E 6725N	201 202	740	3	0.33	84	1760	36	69	0.20	227	< 10	226			
T5000E 6750N	201 202	720	3	0.38	84	1880	30	113	0.20	185	< 10	244			
T5000E 6775N	201 202	285	8	0.39	88	1400	30	104	0.27	295	< 10	230			
T5000E 6800N	201 202	595	10	0.37	143	2370	38	148	0.22	322	< 10	424			
T5000E 6825N	201 202	360	6	1.13	67	2310	22	247	0.19	225	< 10	232			
T5000E 6850N	201 202	910	10	0.75	79	1490	28	159	0.27	323	< 10	248			
T5000E 6875N	201 202	1185	17	0.30	154	2610	32	105	0.20	830	< 10	526			
T5000E 6900N	201 202	1210	12	0.51	167	2010	34	132	0.20	290	< 10	994			
T5000E 6925N	201 202	415	9	0.31	76	2100	24	81	0.18	524	< 10	230			
T5000E 6950N	201 202	475	5	0.54	58	1750	24	96	0.29	242	< 10	224			
T5000E 6975N	201 202	295	4	0.59	45	1020	26	109	0.24	210	< 10	140			
T5000E 7000N	201 202	345	4	0.38	46	1810	30	75	0.27	232	< 10	154			
T5000E 7025N	201 202	175	5	0.25	45	950	28	58	0.23	217	< 10	144			
T5000E 7050N	201 202	480	4	0.93	99	1790	24	195	0.30	215	< 10	214			
T5000E 7075N	201 202	950	17	0.30	243	2400	42	93	0.46	667	< 10	1540			
T5000E 7100N	201 202	785	9	0.42	111	2250	48	98	0.32	374	< 10	442			
T5000E 7125N	201 202	530	7	1.14	62	2470	30	228	0.30	255	< 10	258			
T5000E 7150N	201 202	635	5	0.25	132	1640	28	115	0.47	212	< 10	322			
T5000E 7175N	201 202	370	7	0.25	85	1680	34	83	0.43	257	< 10	276			
T5000E 7200N	201 202	240	10	0.19	65	1390	32	62	0.33	299	< 10	256			
T5000E 7225N	201 202	430	11	0.22	101	1670	40	107	0.33	303	< 10	350			
T5000E 7250N	201 202	1035	28	0.23	227	1940	32	104	0.40	583	< 10	864			
T5000E 7275N	201 202	720	19	0.27	146	2310	34	118	0.44	405	< 10	456			
T5000E 7300N	201 202	335	3	0.27	69	1280	30	79	0.24	202	< 10	276			
T5000E 7325N	201 202	515	5	0.26	101	2020	36	109	0.39	287	< 10	370			
T5000E 7350N	201 202	395	2	0.33	61	1190	42	84	0.21	191	< 10	212			
T5000E 7375N	201 202	250	4	0.38	60	1350	42	84	0.27	220	< 10	224			
T5000E 7400N	201 202	265	2	0.50	45	1060	32	105	0.19	170	< 10	162			

CERTIFICATION:

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page: .ber :6-A
Total Pages :6
Certificate Date: 19-JUL-97
Invoice No. : 19730991
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9730991

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5000E 7425N	201	202	10	0.6	9.20	3120	2.5	< 2	0.25	< 0.5	6	114	93	4.19	3.54	0.80
T5000E 7450N	201	202	5	< 0.2	6.95	2020	2.0	< 2	0.18	0.5	7	85	93	3.89	2.73	0.47
T5000E 7475N	201	202	< 5	< 0.2	8.11	2470	2.5	< 2	0.27	< 0.5	8	102	100	3.93	3.10	0.56
T5000E 7500N	201	202	< 5	< 0.2	6.62	2070	2.0	< 2	0.30	< 0.5	6	86	70	3.21	2.47	0.48

CERTIFICATION:

David B. Terry



Chemex Labs Ltd.

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Page: 6-B
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CERTIFICATE OF ANALYSIS

A9730991

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5000E 7425N	201	202	185	2	0.49	37	1110	40	76	0.21	208	< 10	140			
T5000E 7450N	201	202	220	2	0.31	44	790	50	44	0.14	161	< 10	174			
T5000E 7475N	201	202	235	2	0.44	45	920	36	58	0.19	193	< 10	178			
T5000E 7500N	201	202	215	2	0.46	32	880	32	62	0.21	156	< 10	132			

CERTIFICATION:

15.08.97



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212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9730995

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9730995

(GP W) - WESTMIN RESOURCES LTD.

Project: 6410
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-JUL-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	163	Dry, sieve to -80 mesh save reject ICP - HF digestion charge
202	163	
285	163	

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	163	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	163	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	163	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	163	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	163	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	163	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	163	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	163	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	163	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	163	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	163	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	163	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	163	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	163	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	163	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	163	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	163	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	163	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	163	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	163	Pb ppm: 24 element, rock & core	AAS	2	10000
582	163	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	163	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	163	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	163	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	163	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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Project: 6410
Comments: ATTN: DAVID TERRY

Page: 1-A
Total Pages: 5
Certificate Date: 17-JUL-97
Invoice No.: 19730995
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9730995

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5100E 6500N	201 202	< 5	< 0.2	5.95	280	2.0	< 2	2.18	< 0.5	77	757	99	8.59	0.39	9.98
T5100E 6525N	201 202	< 5	< 0.2	5.78	1910	1.5	< 2	0.63	1.0	23	308	82	5.38	1.47	2.88
T5100E 6550N	201 202	< 5	0.4	4.06	2360	1.0	< 2	0.31	2.5	11	84	58	2.31	1.41	0.47
T5100E 6575N	201 202	< 5	0.2	4.94	2880	2.0	< 2	0.56	1.5	18	144	145	4.10	1.87	1.08
T5100E 6600N	201 202	< 5	0.4	6.08	3650	1.5	< 2	0.32	1.5	9	94	69	3.57	2.22	0.79
T5100E 6625N	201 202	< 5	< 0.2	5.18	2550	1.5	< 2	0.30	1.5	10	87	77	3.16	2.00	0.75
T5100E 6650N	201 202	< 5	< 0.2	4.40	2310	1.0	< 2	0.41	1.0	6	58	39	2.16	1.47	0.46
T5100E 6675N	201 202	< 5	0.4	4.97	3800	1.5	< 2	0.43	1.0	6	93	61	3.13	1.91	0.69
T5100E 6700N	201 202	< 5	< 0.2	4.48	3460	1.5	< 2	0.31	2.0	14	70	57	2.49	1.68	0.77
T5100E 6725N	201 202	< 5	< 0.2	5.61	2820	1.5	< 2	0.46	1.0	8	81	60	3.42	2.13	0.74
T5100E 6750N	201 202	< 5	0.4	5.79	2450	2.0	< 2	0.33	1.5	12	36	40	2.52	2.43	0.55
T5100E 6775N	201 202	< 5	< 0.2	4.88	3710	1.5	< 2	0.57	1.0	7	109	90	3.59	1.87	0.59
T5100E 6800N	201 202	< 5	0.4	6.25	3760	2.0	< 2	0.55	2.0	14	98	80	3.83	2.52	0.90
T5100E 6825N	201 202	< 5	0.6	6.59	4290	2.0	< 2	0.49	1.5	34	125	101	4.18	2.47	0.84
T5100E 6850N	201 202	< 5	0.6	5.37	4460	1.5	< 2	0.79	6.5	31	132	89	4.11	1.85	1.03
T5100E 6875N	201 202	15	3.0	6.56	5150	2.0	< 2	1.05	8.0	31	200	119	4.89	2.23	1.51
T5100E 6900N	201 202	20	0.8	6.30	7620	2.5	< 2	0.77	5.5	13	212	156	3.82	2.25	0.97
T5100E 6925N	201 202	< 5	1.0	5.50	3580	1.5	< 2	0.71	1.5	6	112	59	3.63	1.90	0.97
T5100E 6950N	201 202	< 5	0.2	5.62	3990	1.5	< 2	0.86	1.0	5	122	55	3.84	1.87	1.15
T5100E 6975N	201 202	< 5	0.4	6.38	4200	2.0	< 2	1.66	2.5	31	242	103	5.48	2.09	2.41
T5100E 7000N	201 202	15	0.6	5.12	2870	1.5	< 2	1.58	0.5	26	265	85	5.06	1.58	2.78
T5100E 7025N	201 202	15	1.2	5.40	3960	1.5	< 2	2.51	0.5	15	450	130	7.74	1.56	4.05
T5100E 7050N	201 202	20	0.8	6.32	3730	2.0	< 2	2.12	0.5	39	366	198	7.99	1.87	3.02
T5100E 7075N	201 202	< 5	0.6	6.02	4980	2.0	< 2	0.82	1.5	27	196	104	4.66	2.09	1.75
T5100E 7100N	201 202	15	0.6	5.05	2570	1.5	< 2	1.99	0.5	14	232	94	6.25	1.73	2.35
T5100E 7125N	201 202	30	0.8	5.18	2930	1.5	< 2	1.19	0.5	15	191	117	6.68	1.88	1.40
T5100E 7150N	201 202	10	0.6	7.94	1660	2.5	< 2	0.24	< 0.5	10	165	113	5.45	3.27	1.28
T5100E 7175N	201 202	25	1.2	5.78	1690	1.5	< 2	0.33	0.5	13	143	134	6.26	2.00	1.36
T5100E 7200N	201 202	35	1.4	5.48	1950	2.0	< 2	0.19	1.5	19	150	135	6.35	1.87	0.89
T5100E 7225N	201 202	40	2.0	5.51	2180	2.0	< 2	0.31	1.5	13	205	172	6.00	2.10	0.84
T5100E 7250N	201 202	20	1.2	5.10	3060	1.5	< 2	0.36	0.5	11	134	94	4.59	1.98	0.80
T5100E 7275N	201 202	55	3.4	4.73	2500	2.0	< 2	0.23	3.5	20	172	190	5.77	1.78	0.87
T5100E 7300N	201 202	20	1.2	6.20	3350	2.0	< 2	0.15	2.0	19	142	129	5.42	2.23	1.04
T5100E 7325N	201 202	15	0.6	6.73	2730	2.0	< 2	0.19	2.0	34	115	131	5.55	2.40	0.76
T5100E 7350N	201 202	10	0.4	6.58	2650	2.0	< 2	0.13	1.0	25	114	126	5.26	2.35	0.80
T5100E 7375N	201 202	10	0.6	7.44	3150	2.5	< 2	0.14	0.5	8	107	101	5.46	2.91	0.86
T5100E 7400N	201 202	10	< 0.2	7.13	2720	2.0	< 2	0.10	< 0.5	10	97	91	4.44	2.79	0.74
T5100E 7425N	201 202	10	< 0.2	6.16	1980	2.0	< 2	0.16	< 0.5	6	82	80	3.57	2.33	0.52
T5100E 7450N	201 202	5	< 0.2	5.88	1770	2.0	< 2	0.36	< 0.5	6	79	70	3.49	2.20	0.51
T5100E 7475N	201 202	5	0.4	6.14	1720	1.5	< 2	0.54	< 0.5	5	85	51	3.27	2.09	0.55

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

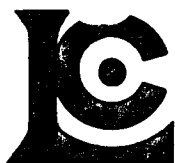
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Total Pages: 5
Certificate Date: 17-JUL-97
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CERTIFICATE OF ANALYSIS

A9730995

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5100E 6500N	201	202	2650	< 1	0.10	553	2750	16	72	1.35	267	< 10	246			
T5100E 6525N	201	202	1375	13	0.50	196	1770	70	86	0.51	275	< 10	240			
T5100E 6550N	201	202	2070	8	0.29	43	1760	70	48	0.18	276	< 10	124			
T5100E 6575N	201	202	615	14	0.48	122	2660	48	79	0.30	440	< 10	284			
T5100E 6600N	201	202	1425	5	0.55	43	2500	40	61	0.25	201	< 10	144			
T5100E 6625N	201	202	415	6	0.51	43	1560	30	62	0.21	233	< 10	148			
T5100E 6650N	201	202	970	4	0.50	27	2350	22	59	0.19	136	< 10	100			
T5100E 6675N	201	202	335	6	0.48	49	1990	24	68	0.27	203	< 10	148			
T5100E 6700N	201	202	1990	3	0.29	42	1830	40	42	0.19	126	< 10	130			
T5100E 6725N	201	202	505	5	0.58	42	1480	32	83	0.31	144	< 10	152			
T5100E 6750N	201	202	2720	6	0.44	24	1090	48	55	0.22	78	< 10	126			
T5100E 6775N	201	202	280	8	0.44	70	3750	30	99	0.29	187	< 10	184			
T5100E 6800N	201	202	660	6	0.50	67	1620	40	99	0.34	165	< 10	228			
T5100E 6825N	201	202	1125	8	0.44	97	1680	26	95	0.27	233	< 10	346			
T5100E 6850N	201	202	2470	11	0.55	75	2560	30	91	0.35	251	< 10	300			
T5100E 6875N	201	202	1440	10	0.58	120	1980	34	113	0.43	316	< 10	382			
T5100E 6900N	201	202	1115	27	0.68	103	3090	46	122	0.31	1110	< 10	564			
T5100E 6925N	201	202	355	6	0.65	46	1840	26	96	0.39	203	< 10	170			
T5100E 6950N	201	202	545	5	0.65	53	1540	28	95	0.45	232	< 10	196			
T5100E 6975N	201	202	950	8	0.53	124	2040	30	109	0.59	341	< 10	342			
T5100E 7000N	201	202	765	5	0.40	131	1920	18	91	0.58	221	< 10	210			
T5100E 7025N	201	202	830	8	0.53	125	2610	24	135	0.76	309	< 10	292			
T5100E 7050N	201	202	945	11	0.54	196	2800	32	161	0.69	358	< 10	378			
T5100E 7075N	201	202	540	8	0.36	170	1620	22	77	0.46	279	< 10	360			
T5100E 7100N	201	202	610	4	0.54	92	2270	18	122	0.81	235	< 10	192			
T5100E 7125N	201	202	470	10	0.27	90	1980	30	124	0.55	267	< 10	326			
T5100E 7150N	201	202	360	13	0.23	80	1740	26	66	0.30	321	< 10	218			
T5100E 7175N	201	202	445	26	0.25	75	2440	40	71	0.46	266	< 10	270			
T5100E 7200N	201	202	530	17	0.21	113	1950	36	77	0.47	276	< 10	464			
T5100E 7225N	201	202	415	22	0.18	103	4110	36	77	0.46	502	< 10	362			
T5100E 7250N	201	202	350	9	0.17	63	2030	40	52	0.31	290	< 10	228			
T5100E 7275N	201	202	535	22	0.13	129	2840	70	72	0.31	399	< 10	550			
T5100E 7300N	201	202	565	11	0.16	106	1720	42	43	0.28	268	< 10	420			
T5100E 7325N	201	202	920	5	0.28	103	1300	52	61	0.21	193	< 10	374			
T5100E 7350N	201	202	600	4	0.23	97	1240	44	50	0.21	192	< 10	356			
T5100E 7375N	201	202	265	6	0.25	48	1270	42	41	0.22	187	< 10	260			
T5100E 7400N	201	202	265	4	0.22	52	990	38	37	0.20	176	< 10	230			
T5100E 7425N	201	202	200	3	0.27	35	830	32	38	0.20	146	< 10	138			
T5100E 7450N	201	202	245	4	0.46	32	730	30	63	0.23	135	< 10	132			
T5100E 7475N	201	202	270	4	0.65	26	790	46	87	0.30	143	< 10	96			

CERTIFICATION:



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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5100E 7500N	201 202	10	0.4	6.48	1870	1.5	< 2	0.47	< 0.5	3	87	26	3.03	2.17	0.54
T5200E 6500N	201 202	5	0.6	4.67	2820	2.0	< 2	0.78	4.0	19	99	143	3.42	1.72	0.56
T5200E 6525N	201 202	< 5	< 0.2	5.12	2990	1.5	< 2	0.61	0.5	8	115	71	3.17	1.85	0.72
T5200E 6550N	201 202	< 5	0.8	4.46	2690	1.5	< 2	0.41	1.5	17	106	84	2.80	1.42	0.40
T5200E 6575N	201 202	< 5	0.6	4.58	2360	1.5	< 2	0.53	2.5	14	79	83	2.78	1.59	0.53
T5200E 6600N	201 202	< 5	0.2	4.93	2570	1.5	< 2	0.58	0.5	10	99	96	3.14	1.79	0.74
T5200E 6625N	201 202	< 5	< 0.2	5.14	2550	1.5	< 2	0.49	0.5	9	78	63	3.64	1.82	0.67
T5200E 6650N	201 202	< 5	0.6	4.80	2880	1.5	< 2	0.42	0.5	9	65	53	2.91	1.74	0.54
T5200E 6675N	201 202	< 5	< 0.2	5.49	2530	1.5	< 2	0.80	1.5	21	61	54	2.91	1.87	0.61
T5200E 6700N	201 202	< 5	< 0.2	4.64	2570	1.5	< 2	0.59	0.5	6	80	50	3.32	1.54	0.64
T5200E 6725N	201 202	< 5	0.6	4.71	4250	1.5	< 2	0.74	6.0	25	87	74	2.93	1.52	0.60
T5200E 6750N	201 202	< 5	< 0.2	4.98	4160	1.5	< 2	0.54	2.5	9	85	58	3.00	1.97	0.55
T5200E 6775N	201 202	< 5	< 0.2	6.10	2990	1.5	< 2	0.35	1.0	10	101	69	3.53	2.42	0.68
T5200E 6800N	201 202	< 5	0.4	4.46	2800	1.5	< 2	0.45	0.5	8	97	62	3.64	1.52	0.72
T5200E 6825N	201 202	< 5	0.4	4.59	3050	1.5	< 2	0.35	1.5	7	100	59	3.45	1.59	0.69
T5200E 6850N	201 202	< 5	0.8	4.73	3670	1.5	< 2	0.45	1.5	8	92	66	3.25	1.71	0.57
T5200E 6875N	201 202	10	1.4	5.06	5090	1.5	< 2	1.06	3.0	26	155	125	4.65	1.59	1.16
T5200E 6900N	201 202	< 5	1.8	3.76	2910	1.0	< 2	0.54	5.0	6	100	46	2.49	1.30	0.57
T5200E 6925N	201 202	10	1.0	5.83	3750	1.5	< 2	1.53	2.0	16	216	93	5.07	1.77	1.62
T5200E 6950N	201 202	15	0.8	6.64	4730	2.0	< 2	1.37	3.0	22	226	106	5.12	2.14	1.84
T5200E 6975N	201 202	5	0.4	6.20	3250	1.5	< 2	1.62	1.5	24	222	90	5.47	1.76	2.06
T5200E 7000N	201 202	< 5	0.8	6.10	3800	2.0	< 2	0.92	5.0	19	141	92	4.85	1.87	1.26
T5200E 7025N	201 202	< 5	< 0.2	4.06	1850	1.0	< 2	1.70	< 0.5	12	200	55	4.62	1.08	1.74
T5200E 7050N	201 202	10	< 0.2	5.80	1070	1.5	< 2	3.47	< 0.5	26	363	122	7.68	1.55	4.17
T5200E 7075N	201 202	10	0.4	6.68	1740	2.0	< 2	1.07	< 0.5	22	226	74	4.96	2.50	2.19
T5200E 7100N	201 202	10	0.8	5.94	3940	1.5	< 2	1.87	2.0	83	278	134	6.40	1.75	2.59
T5200E 7125N	201 202	15	1.6	5.57	2740	1.0	< 2	2.80	< 0.5	11	550	172	9.72	1.29	4.61
T5200E 7150N	201 202	20	1.2	4.66	870	0.5	< 2	2.97	< 0.5	5	461	163	10.70	1.05	3.06
T5200E 7175N	201 202	10	0.4	5.59	2260	1.5	< 2	1.65	2.0	41	282	166	8.70	1.34	3.30
T5200E 7200N	201 202	30	1.0	5.70	950	1.5	< 2	2.81	< 0.5	8	334	118	8.92	1.61	2.58
T5200E 7225N	201 202	20	0.8	5.41	3050	2.0	< 2	1.08	11.5	33	148	111	5.41	1.63	2.38
T5200E 7250N	201 202	20	0.8	6.06	3000	2.0	< 2	0.41	1.5	8	114	96	4.28	2.30	0.70
T5200E 7275N	201 202	< 5	< 0.2	4.96	1930	1.5	< 2	0.47	< 0.5	5	90	59	3.78	1.67	0.70
T5200E 7300N	201 202	10	0.4	5.04	1530	1.5	< 2	0.52	0.5	7	70	48	3.36	1.68	0.62
T5200E 7325N	201 202	10	0.4	6.12	2590	2.0	< 2	0.24	< 0.5	7	98	68	4.05	2.31	0.74
T5200E 7350N	201 202	15	0.4	6.90	2250	2.0	< 2	0.40	< 0.5	5	95	44	4.15	2.30	0.59
T5200E 7375N	201 202	20	0.6	8.16	2470	2.0	< 2	0.31	< 0.5	1	109	35	3.75	2.74	0.51
T5200E 7400N	201 202	15	0.6	8.29	2500	2.0	< 2	0.33	< 0.5	2	109	38	3.93	2.80	0.55
T5200E 7425N	201 202	20	0.6	9.85	3080	2.5	< 2	0.24	< 0.5	< 1	130	36	4.36	3.31	0.54
T5200E 7450N	201 202	10	< 0.2	6.25	1660	1.5	< 2	0.59	< 0.5	3	87	35	3.27	1.96	0.53

CERTIFICATION:

David B. Allen



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page: 2-B
Total: 5
Certificate Date: 17-JUL-97
Invoice No.: 19730995
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS

A9730995

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5100E 7500N	201 202	230	4	0.63	19	970	72	85	0.25	144	< 10	70			
T5200E 6500N	201 202	1340	18	0.56	112	2820	54	101	0.27	308	< 10	240			
T5200E 6525N	201 202	535	7	0.62	60	1350	32	92	0.37	418	< 10	158			
T5200E 6550N	201 202	1995	10	0.37	64	2690	42	59	0.21	264	< 10	178			
T5200E 6575N	201 202	1550	7	0.47	52	2510	48	70	0.18	152	< 10	164			
T5200E 6600N	201 202	550	10	0.55	61	1990	124	81	0.25	277	< 10	184			
T5200E 6625N	201 202	365	6	0.63	43	1920	30	83	0.30	142	< 10	120			
T5200E 6650N	201 202	695	5	0.60	36	1870	50	81	0.26	135	< 10	120			
T5200E 6675N	201 202	2870	6	0.95	29	2020	48	159	0.27	127	< 10	124			
T5200E 6700N	201 202	340	5	0.72	45	2080	30	96	0.30	156	< 10	138			
T5200E 6725N	201 202	2880	5	0.75	55	4390	28	138	0.26	168	< 10	304			
T5200E 6750N	201 202	640	5	0.54	37	2920	34	79	0.23	149	< 10	134			
T5200E 6775N	201 202	605	4	0.48	51	1200	28	66	0.36	170	< 10	146			
T5200E 6800N	201 202	400	5	0.49	44	2040	20	81	0.36	151	< 10	142			
T5200E 6825N	201 202	835	6	0.39	41	2010	20	66	0.31	164	< 10	116			
T5200E 6850N	201 202	835	6	0.42	54	2170	18	100	0.32	165	< 10	214			
T5200E 6875N	201 202	800	8	0.62	125	2530	36	178	0.49	269	< 10	524			
T5200E 6900N	201 202	635	5	0.47	38	3140	12	66	0.35	176	< 10	142			
T5200E 6925N	201 202	725	7	0.60	115	2100	22	113	0.57	303	< 10	294			
T5200E 6950N	201 202	815	7	0.66	141	1950	46	131	0.59	360	< 10	392			
T5200E 6975N	201 202	1015	6	0.91	115	2130	50	134	0.64	248	< 10	234			
T5200E 7000N	201 202	715	9	0.69	110	1510	64	120	0.43	270	< 10	482			
T5200E 7025N	201 202	675	3	0.53	83	2700	18	98	0.61	169	< 10	116			
T5200E 7050N	201 202	765	5	0.52	159	2450	16	141	1.01	266	< 10	210			
T5200E 7075N	201 202	570	6	0.41	111	1520	16	103	0.47	265	< 10	148			
T5200E 7100N	201 202	1160	8	0.52	597	2080	18	111	0.71	277	< 10	420			
T5200E 7125N	201 202	785	7	0.73	142	3430	24	173	0.98	334	< 10	304			
T5200E 7150N	201 202	590	5	0.59	104	3790	20	236	0.84	277	< 10	280			
T5200E 7175N	201 202	900	7	0.47	331	2820	14	120	0.95	327	< 10	890			
T5200E 7200N	201 202	685	6	0.79	62	4530	18	209	1.04	281	< 10	142			
T5200E 7225N	201 202	740	11	0.36	143	2330	36	80	0.74	250	< 10	1540			
T5200E 7250N	201 202	335	12	0.41	70	1160	48	76	0.30	257	< 10	304			
T5200E 7275N	201 202	300	4	0.44	39	1060	38	68	0.28	140	< 10	148			
T5200E 7300N	201 202	310	1	0.56	30	680	38	75	0.25	120	< 10	120			
T5200E 7325N	201 202	335	3	0.26	36	1060	52	53	0.24	173	< 10	158			
T5200E 7350N	201 202	300	3	0.53	22	1000	96	83	0.28	152	< 10	156			
T5200E 7375N	201 202	195	3	0.54	14	930	132	77	0.27	167	< 10	120			
T5200E 7400N	201 202	220	4	0.58	17	960	132	78	0.30	169	< 10	132			
T5200E 7425N	201 202	165	6	0.55	12	1060	204	79	0.34	197	< 10	140			
T5200E 7450N	201 202	245	4	0.69	17	710	76	86	0.31	129	< 10	108			

CERTIFICATION:

David B. Terry



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

o: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page : 3-A
Total : 5
Certificate Date: 17-JUL-97
Invoice No. : 19730995
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9730995

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5200E 7475N	201 202	25	1.0	10.10	3470	2.5	< 2	0.17	< 0.5	1	136	27	4.48	3.40	0.51
T5200E 7500N	201 202	30	0.6	6.96	2340	1.5	< 2	0.28	< 0.5	1	97	30	4.48	2.31	0.43
T5300E 6500N	201 202	< 5	0.4	4.60	2090	1.5	< 2	0.44	< 0.5	6	92	57	3.23	1.68	0.44
T5300E 6525N	201 202	< 5	0.4	5.45	2070	1.5	< 2	0.90	0.5	10	105	84	3.37	1.83	0.73
T5300E 6550N	201 202	< 5	0.6	4.44	2240	1.5	< 2	0.63	0.5	8	105	65	3.02	1.57	0.58
T5300E 6575N	201 202	10	0.4	4.70	2840	2.0	< 2	0.35	0.5	14	109	90	3.11	2.05	0.61
T5300E 6600N	201 202	< 5	< 0.2	4.93	2650	1.5	< 2	0.35	0.5	12	99	84	3.60	1.80	0.58
T5300E 6625N	201 202	< 5	< 0.2	5.45	2240	1.5	< 2	0.49	0.5	10	87	68	3.51	2.07	0.67
T5300E 6650N	201 202	< 5	< 0.2	6.06	3370	2.0	< 2	0.18	0.5	10	118	73	3.81	2.46	0.66
T5300E 6675N	201 202	< 5	< 0.2	5.74	3480	1.5	< 2	0.25	0.5	9	89	63	3.22	2.41	0.60
T5300E 6700N	201 202	< 5	< 0.2	5.22	2830	1.5	< 2	0.50	0.5	8	98	57	3.73	1.73	0.64
T5300E 6725N	201 202	< 5	< 0.2	5.33	3590	1.5	< 2	0.37	0.5	10	118	65	4.31	1.92	0.82
T5300E 6750N	201 202	< 5	< 0.2	4.66	3640	1.5	< 2	0.54	0.5	12	116	58	3.65	1.61	0.90
T5300E 6775N	201 202	< 5	1.0	5.81	5190	2.0	< 2	0.53	1.5	13	168	140	4.13	1.97	1.14
T5300E 6800N	201 202	5	< 0.2	5.20	3840	1.5	< 2	0.78	0.5	12	149	79	4.22	1.68	1.07
T5300E 6825N	201 202	< 5	< 0.2	4.93	3370	1.5	< 2	0.60	0.5	13	123	71	4.47	1.66	0.98
T5300E 6850N	201 202	25	0.6	6.85	5750	2.0	< 2	0.73	2.5	31	185	107	6.42	2.19	2.21
T5300E 6875N	201 202	20	< 0.2	5.05	3480	1.5	< 2	0.43	2.5	26	131	84	5.46	1.58	1.50
T5300E 6900N	201 202	10	1.6	6.35	5410	2.0	< 2	0.76	4.5	11	225	155	5.61	2.11	1.44
T5300E 6925N	201 202	10	0.6	6.31	4840	2.0	< 2	0.61	1.0	17	185	96	4.69	2.18	0.94
T5300E 6950N	201 202	20	0.4	7.58	2430	2.0	< 2	0.86	0.5	16	277	151	7.09	2.63	1.51
T5300E 6975N	201 202	30	< 0.2	6.00	2950	2.0	< 2	1.23	1.0	58	308	167	7.54	1.75	1.12
T5300E 7000N	201 202	10	< 0.2	5.63	3020	1.5	< 2	0.97	0.5	40	270	122	5.90	1.58	1.02
T5300E 7025N	201 202	5	< 0.2	5.96	4870	1.5	< 2	1.31	0.5	45	197	97	5.22	2.07	1.94
T5300E 7050N	201 202	< 5	0.4	5.37	2990	1.5	< 2	1.24	0.5	21	239	116	5.84	1.72	1.78
T5300E 7075N	201 202	< 5	< 0.2	5.76	3430	1.5	< 2	2.99	0.5	39	291	106	6.73	1.65	3.22
T5300E 7100N	201 202	10	0.4	4.70	1590	1.0	< 2	3.38	0.5	94	533	184	8.30	1.21	5.15
T5300E 7125N	201 202	30	0.2	5.16	1330	1.5	< 2	3.65	5.0	164	575	262	9.01	1.23	5.93
T5300E 7150N	201 202	35	1.4	5.29	2450	1.0	< 2	2.30	0.5	22	637	129	9.18	1.48	3.94
T5300E 7175N	201 202	20	3.0	5.20	2530	1.5	< 2	2.37	0.5	6	474	171	6.91	1.27	3.38
T5300E 7200N	201 202	15	6.0	5.06	3680	2.0	< 2	1.33	3.5	7	312	343	7.02	1.92	1.15
T5300E 7225N	201 202	< 5	1.0	3.88	1060	1.0	< 2	0.41	< 0.5	3	91	42	2.56	1.10	0.37
T5300E 7250N	201 202	10	< 0.2	5.67	1470	1.5	< 2	0.80	< 0.5	11	130	77	3.69	1.55	0.85
T5300E 7275N	201 202	10	< 0.2	5.03	1840	1.5	< 2	0.65	< 0.5	6	112	70	3.27	1.73	0.65
T5300E 7300N	201 202	5	< 0.2	4.76	1860	1.5	< 2	0.52	< 0.5	8	81	58	3.74	1.55	0.85
T5300E 7325N	201 202	< 5	< 0.2	5.07	1350	1.5	< 2	0.59	< 0.5	6	71	43	3.26	1.68	0.66
T5300E 7350N	201 202	< 5	< 0.2	5.21	1680	1.5	< 2	0.42	< 0.5	5	88	38	3.32	1.87	0.72
T5300E 7375N	201 202	10	< 0.2	4.86	1360	1.5	< 2	0.47	< 0.5	4	69	33	3.04	1.72	0.60
T5300E 7400N	201 202	10	< 0.2	5.40	1800	1.5	< 2	0.31	< 0.5	4	78	48	3.36	2.01	0.55
T5300E 7425N	201 202	10	< 0.2	6.19	1990	1.5	< 2	0.35	< 0.5	2	88	29	3.88	2.11	0.41

CERTIFICATION:



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WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page: 3-B
Total Pages: 5
Certificate Date: 17-JUL-97
Invoice No.: 19730995
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CERTIFICATE OF ANALYSIS

A9730995

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5200E 7475N	201 202	160	5	0.55	8	1050	244	91	0.29	207	< 10	132			
T5200E 7500N	201 202	185	5	0.44	8	1010	184	82	0.29	144	< 10	174			
T5300E 6500N	201 202	360	6	0.47	41	3350	30	80	0.33	194	< 10	94			
T5300E 6525N	201 202	390	7	0.89	65	2250	30	138	0.35	214	< 10	130			
T5300E 6550N	201 202	505	7	0.63	60	2560	24	98	0.28	265	< 10	138			
T5300E 6575N	201 202	595	11	0.38	92	1150	28	68	0.25	210	< 10	142			
T5300E 6600N	201 202	1535	10	0.49	57	2690	28	76	0.35	295	< 10	116			
T5300E 6625N	201 202	405	10	0.66	59	1500	30	97	0.32	262	< 10	128			
T5300E 6650N	201 202	490	5	0.33	54	2740	20	58	0.25	165	< 10	134			
T5300E 6675N	201 202	690	4	0.37	40	1670	24	63	0.29	152	< 10	118			
T5300E 6700N	201 202	405	4	0.67	44	1740	20	105	0.39	164	< 10	102			
T5300E 6725N	201 202	645	5	0.46	53	1860	24	83	0.41	209	< 10	136			
T5300E 6750N	201 202	595	4	0.53	62	2080	18	103	0.41	195	< 10	148			
T5300E 6775N	201 202	710	8	0.52	113	2830	26	133	0.33	339	< 10	320			
T5300E 6800N	201 202	545	6	0.75	90	1550	20	136	0.53	292	< 10	198			
T5300E 6825N	201 202	470	5	0.64	70	1630	22	115	0.50	170	< 10	172			
T5300E 6850N	201 202	1285	6	0.59	140	1550	40	110	0.67	235	< 10	492			
T5300E 6875N	201 202	1075	5	0.53	95	1770	28	80	0.53	143	< 10	398			
T5300E 6900N	201 202	500	11	0.61	181	2770	32	167	0.49	344	< 10	678			
T5300E 6925N	201 202	580	9	0.60	82	2610	44	226	0.55	315	< 10	204			
T5300E 6950N	201 202	490	6	0.55	118	2640	24	160	1.03	335	< 10	212			
T5300E 6975N	201 202	1315	4	0.30	291	2680	14	109	1.15	278	< 10	314			
T5300E 7000N	201 202	1240	2	0.36	209	3300	10	107	0.88	212	< 10	150			
T5300E 7025N	201 202	785	5	1.01	119	1500	10	87	0.65	195	< 10	142			
T5300E 7050N	201 202	640	6	0.66	178	2030	20	132	0.61	215	< 10	230			
T5300E 7075N	201 202	995	1	0.86	179	2380	16	197	1.14	231	< 10	190			
T5300E 7100N	201 202	1340	3	0.46	553	2400	12	101	1.06	233	< 10	246			
T5300E 7125N	201 202	2070	1	0.31	828	2720	10	105	1.35	268	< 10	682			
T5300E 7150N	201 202	680	2	0.62	195	2630	22	123	1.05	267	< 10	204			
T5300E 7175N	201 202	630	14	1.07	88	4680	38	150	0.89	554	< 10	344			
T5300E 7200N	201 202	410	38	0.33	182	9550	56	129	0.38	804	< 10	682			
T5300E 7225N	201 202	165	3	0.59	23	4350	20	89	0.29	140	< 10	74			
T5300E 7250N	201 202	385	6	0.95	71	1630	26	143	0.35	205	< 10	162			
T5300E 7275N	201 202	250	5	0.82	55	1120	22	121	0.34	184	< 10	140			
T5300E 7300N	201 202	310	4	0.67	43	750	22	107	0.33	109	< 10	112			
T5300E 7325N	201 202	275	2	0.76	32	670	32	115	0.30	115	< 10	104			
T5300E 7350N	201 202	340	2	0.50	27	900	28	80	0.31	143	< 10	104			
T5300E 7375N	201 202	240	3	0.67	24	640	30	99	0.26	114	< 10	84			
T5300E 7400N	201 202	190	3	0.39	26	900	30	63	0.23	136	< 10	90			
T5300E 7425N	201 202	180	4	0.50	12	1040	140	89	0.26	131	< 10	146			

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

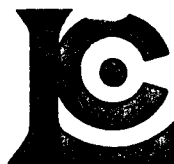
Project: 6410
Comments: ATTN: DAVID TERRY

Page: 4-A
Total Pages: 5
Certificate Date: 17-JUL-97
Invoice No.: I9730995
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9730995

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5300E 7450N	201 202	10	< 0.2	5.69	1510	1.5	< 2	0.61	< 0.5	4	80	35	3.27	1.84	0.51
T5300E 7475N	201 202	< 5	< 0.2	5.39	1420	1.5	< 2	0.59	< 0.5	7	78	39	3.31	1.71	0.59
T5300E 7500N	201 202	10	< 0.2	8.08	2460	2.0	< 2	0.45	< 0.5	3	105	33	3.64	2.77	0.59
T5400E 6500N	201 202	< 5	0.2	5.10	2200	1.5	< 2	0.42	0.5	13	86	70	3.65	1.93	0.50
T5400E 6525N	201 202	< 5	< 0.2	5.55	1840	1.5	< 2	0.79	< 0.5	9	57	72	2.93	1.83	0.54
T5400E 6550N	201 202	< 5	< 0.2	4.70	2900	1.5	< 2	0.29	< 0.5	10	86	61	3.40	1.80	0.49
T5400E 6575N	201 202	< 5	< 0.2	4.54	2550	1.5	< 2	0.31	0.5	8	81	57	2.86	1.79	0.42
T5400E 6600N	201 202	< 5	< 0.2	5.50	1900	1.5	< 2	0.46	< 0.5	7	86	41	4.03	2.03	0.75
T5400E 6625N	201 202	< 5	< 0.2	4.37	2130	1.0	< 2	0.48	1.0	9	74	62	2.93	1.60	0.55
T5400E 6650N	201 202	< 5	< 0.2	4.57	2460	1.5	< 2	0.51	< 0.5	10	82	67	3.16	1.69	0.56
T5400E 6675N	201 202	< 5	< 0.2	6.22	4560	2.0	< 2	0.25	0.5	11	118	72	4.24	2.32	0.87
T5400E 6700N	201 202	< 5	< 0.2	4.17	2620	1.0	< 2	0.33	0.5	7	86	45	3.12	1.39	0.53
T5400E 6725N	201 202	< 5	< 0.2	4.92	3500	1.5	< 2	0.44	< 0.5	10	112	65	3.99	1.65	0.80
T5400E 6750N	201 202	< 5	0.4	4.47	3470	1.0	< 2	0.45	0.5	7	98	47	3.01	1.64	0.54
T5400E 6775N	201 202	15	0.6	5.54	1150	2.0	< 2	0.50	0.5	12	110	92	4.65	2.18	0.84
T5400E 6800N	201 202	< 5	< 0.2	4.62	3680	1.0	< 2	0.33	0.5	8	122	55	3.66	1.52	0.87
T5400E 6825N	201 202	< 5	0.6	3.79	2700	1.0	< 2	0.34	< 0.5	8	103	52	3.06	1.22	0.49
T5400E 6850N	201 202	< 5	< 0.2	4.75	3190	1.5	< 2	0.57	2.0	9	131	59	4.46	1.50	0.89
T5400E 6875N	201 202	< 5	< 0.2	5.85	3810	1.5	< 2	0.53	0.5	24	171	99	5.01	1.86	1.24
T5400E 6900N	201 202	< 5	< 0.2	5.10	4740	1.5	< 2	0.69	0.5	11	170	71	4.15	1.65	1.34
T5400E 6925N	201 202	10	0.8	6.42	2630	2.0	< 2	1.02	0.5	12	226	129	5.50	2.10	1.39
T5400E 6950N	201 202	10	0.8	6.92	400	2.0	< 2	0.44	< 0.5	10	357	131	7.34	2.42	1.30
T5400E 6975N	201 202	15	1.0	6.03	580	2.0	< 2	0.30	< 0.5	9	230	96	6.23	2.43	0.84
T5400E 7000N	201 202	10	0.4	6.00	580	1.5	< 2	0.91	0.5	22	100	231	6.32	2.17	1.70
T5400E 7025N	201 202	< 5	0.8	5.72	2350	1.5	< 2	0.38	0.5	16	110	232	5.37	1.39	1.78
T5400E 7050N	201 202	< 5	0.4	5.24	2160	1.5	< 2	1.04	1.0	20	137	210	5.19	1.62	1.17
T5400E 7075N	201 202	< 5	< 0.2	5.67	2110	1.5	< 2	1.64	< 0.5	23	235	79	5.03	1.57	1.87
T5400E 7100N	201 202	< 5	< 0.2	5.63	1930	1.0	< 2	3.17	< 0.5	16	413	76	6.74	1.27	3.21
T5400E 7125N	201 202	< 5	1.0	4.36	1280	1.0	< 2	0.92	0.5	5	170	163	4.77	1.07	1.03
T5400E 7150N	201 202	< 5	0.8	5.37	1270	1.5	< 2	1.07	0.5	10	118	55	3.38	1.50	0.90
T5400E 7175N	201 202	10	0.8	5.36	1760	1.5	< 2	1.16	0.5	16	173	127	4.63	1.46	1.17
T5400E 7200N	201 202	< 5	1.0	6.37	3990	1.5	< 2	2.37	< 0.5	4	999	51	6.01	2.06	6.06
T5400E 7250N	201 202	10	3.0	4.59	2330	1.5	< 2	0.92	1.0	8	190	137	4.09	1.43	0.83
T5400E 7275N	201 202	< 5	0.4	3.23	1770	1.0	< 2	0.48	< 0.5	4	142	78	2.83	0.91	0.47
T5400E 7300N	201 202	35	0.8	4.39	1900	1.5	< 2	0.69	0.5	7	136	133	3.36	1.40	0.59
T5400E 7325N	201 202	10	< 0.2	4.86	2430	1.5	< 2	0.40	< 0.5	5	152	88	4.30	1.69	0.92
T5400E 7350N	201 202	5	1.0	7.20	2950	2.0	< 2	0.32	< 0.5	6	133	60	3.92	2.39	1.18
T5400E 7375N	201 202	< 5	0.4	5.74	2220	1.5	< 2	0.60	< 0.5	7	120	58	4.08	2.01	0.93
T5400E 7400N	201 202	< 5	< 0.2	5.46	1660	1.5	< 2	0.59	< 0.5	10	89	57	3.79	1.89	0.72
T5400E 7425N	201 202	< 5	< 0.2	5.21	1300	1.5	< 2	0.67	< 0.5	5	74	36	3.31	1.67	0.56

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page 4-B
Total Pages: 5
Certificate Date: 17-JUL-97
Invoice No.: 19730995
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9730995

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5300E 7450N	201	202	250	3	0.69	24	870	56	104	0.28	121	< 10	114			
T5300E 7475N	201	202	305	3	0.71	29	790	40	108	0.28	119	< 10	124			
T5300E 7500N	201	202	255	6	0.75	21	1060	94	115	0.26	171	< 10	102			
T5400E 6500N	201	202	1715	8	0.55	41	2000	36	100	0.31	162	< 10	118			
T5400E 6525N	201	202	955	6	1.20	34	1780	34	239	0.27	119	< 10	104			
T5400E 6550N	201	202	825	6	0.43	36	2290	26	68	0.30	154	< 10	104			
T5400E 6575N	201	202	1335	5	0.42	33	2770	28	69	0.28	136	< 10	124			
T5400E 6600N	201	202	365	3	0.67	37	980	22	92	0.35	143	< 10	112			
T5400E 6625N	201	202	275	3	0.60	42	760	20	97	0.31	123	< 10	126			
T5400E 6650N	201	202	660	7	0.58	45	1180	22	102	0.34	139	< 10	144			
T5400E 6675N	201	202	775	4	0.47	48	1960	22	67	0.32	208	< 10	120			
T5400E 6700N	201	202	385	3	0.51	38	2270	16	74	0.31	142	< 10	86			
T5400E 6725N	201	202	360	5	0.59	56	1080	20	97	0.44	172	< 10	114			
T5400E 6750N	201	202	595	4	0.58	40	2190	16	94	0.43	153	< 10	98			
T5400E 6775N	201	202	410	6	0.57	77	1520	22	177	0.41	190	< 10	162			
T5400E 6800N	201	202	565	4	0.48	47	2450	18	71	0.40	195	< 10	120			
T5400E 6825N	201	202	240	6	0.46	47	2780	18	79	0.41	170	< 10	122			
T5400E 6850N	201	202	370	5	0.67	58	1370	18	109	0.54	210	< 10	180			
T5400E 6875N	201	202	765	7	0.50	100	1570	24	115	0.58	251	< 10	198			
T5400E 6900N	201	202	540	6	0.56	65	2320	18	119	0.58	272	< 10	148			
T5400E 6925N	201	202	425	15	0.74	83	3290	22	200	0.74	380	< 10	188			
T5400E 6950N	201	202	330	9	0.39	86	3770	18	96	1.31	358	< 10	210			
T5400E 6975N	201	202	285	9	0.25	68	3450	18	356	1.20	330	< 10	166			
T5400E 7000N	201	202	365	6	1.02	83	2930	18	155	1.13	259	< 10	186			
T5400E 7025N	201	202	575	7	0.58	133	2910	16	69	0.38	277	< 10	266			
T5400E 7050N	201	202	555	5	0.82	129	2110	18	149	0.49	165	< 10	218			
T5400E 7075N	201	202	655	3	1.05	138	1350	16	174	0.65	173	< 10	138			
T5400E 7100N	201	202	725	3	0.87	120	1740	12	201	0.81	199	< 10	130			
T5400E 7125N	201	202	290	19	0.59	64	7330	26	107	0.32	420	< 10	204			
T5400E 7150N	201	202	400	6	1.08	65	2350	18	158	0.37	226	< 10	158			
T5400E 7175N	201	202	475	6	0.85	114	3420	24	141	0.47	290	< 10	284			
T5400E 7200N	201	202	775	< 1	0.36	65	1630	16	40	1.16	304	< 10	214			
T5400E 7250N	201	202	350	16	0.65	90	2900	72	121	0.36	801	< 10	310			
T5400E 7275N	201	202	170	4	0.41	54	3400	22	72	0.26	196	< 10	162			
T5400E 7300N	201	202	250	8	0.62	77	2270	40	115	0.27	197	< 10	248			
T5400E 7325N	201	202	310	6	0.32	63	1710	46	60	0.37	227	< 10	226			
T5400E 7350N	201	202	240	3	0.52	44	1360	38	78	0.33	197	< 10	156			
T5400E 7375N	201	202	325	3	0.56	45	1310	36	98	0.40	174	< 10	164			
T5400E 7400N	201	202	360	4	0.64	44	830	30	100	0.36	138	< 10	134			
T5400E 7425N	201	202	290	2	0.79	25	700	36	117	0.32	112	< 10	112			

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page : 5-A
Total Pages : 5
Certificate Date: 17-JUL-97
Invoice No. : 19730995
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS

A9730995

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5400E 7450N	201	202	< 5	< 0.2	5.87	2290	1.5	< 2	0.56	< 0.5	5	115	48	3.78	1.99	0.78
T5400E 7475N	201	202	< 5	0.4	6.15	1910	1.5	< 2	0.52	< 0.5	6	103	44	3.97	1.94	0.73
T5400E 7500N	201	202	< 5	< 0.2	6.01	1780	1.5	< 2	0.66	< 0.5	6	87	40	3.58	2.01	0.64

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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J: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page er :5-B
Total Pages :5
Certificate Date: 17-JUL-97
Invoice No. :19730995
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS

A9730995

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5400E 7450N	201	202	260	5	0.53	37	1600	40	94	0.35	175	< 10	136			
T5400E 7475N	201	202	350	4	0.61	33	2030	36	97	0.37	163	< 10	124			
T5400E 7500N	201	202	315	4	0.81	28	1080	50	131	0.37	137	< 10	126			

CERTIFICATION:

David Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9732400

Comments:

CERTIFICATE

A9732400

(GP W) - WESTMIN RESOURCES LTD.

Project: WOLVERINE
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 30-JUL-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	40	Dry, sieve to -80 mesh save reject ICP - HF digestion charge
202	40	
285	40	

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	40	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	40	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	40	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	40	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	40	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	40	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	40	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	40	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	40	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	40	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	40	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	40	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	40	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	40	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	40	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	40	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	40	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	40	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	40	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	40	Pb ppm: 24 element, rock & core	AAS	2	10000
582	40	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	40	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	40	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	40	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	40	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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VANCOUVER, BC
V7X 1C4

Project: WOLVERINE
Comments:

Page: 1 of 1
Total Pages: 1
Certificate Date: 30-JUL-97
Invoice No.: 19732400
P.O. Number:
Account: GP W

CERTIFICATE OF ANALYSIS A9732400

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
T5500E 6500N	201 202	< 5	< 0.2	5.27	2390	1.5	< 2	0.42	0.5	8	69	63	2.69	1.79	0.44
T5500E 6525N	201 202	< 5	< 0.2	6.67	810	0.5	< 2	1.88	< 0.5	5	17	26	2.32	1.66	0.82
T5500E 6550N	201 202	< 5	< 0.2	3.98	2200	1.0	< 2	0.32	0.5	5	68	49	2.67	1.40	0.45
T5500E 6575N	201 202	< 5	< 0.2	4.87	2270	1.5	< 2	0.54	0.5	13	75	106	3.67	1.70	0.61
T5500E 6600N	201 202	< 5	< 0.2	4.70	2240	1.5	< 2	0.47	0.5	11	76	105	4.05	1.65	0.58
T5500E 6625N	201 202	< 5	< 0.2	4.25	1980	1.0	< 2	0.44	0.5	7	75	54	3.35	1.53	0.50
T5500E 6650N	201 202	< 5	< 0.2	3.46	2130	0.5	< 2	0.27	0.5	4	61	39	2.28	1.13	0.38
T5500E 6675N	201 202	< 5	< 0.2	4.26	2710	1.0	< 2	0.14	0.5	5	97	45	3.48	1.36	0.47
T5500E 6700N	201 202	< 5	< 0.2	4.65	2560	1.5	< 2	0.39	0.5	8	94	51	3.62	1.54	0.65
T5500E 6725N	201 202	< 5	< 0.2	4.23	2340	1.0	< 2	0.45	0.5	7	84	51	3.06	1.40	0.52
T5500E 6750N	201 202	< 5	< 0.2	4.06	2330	1.0	< 2	0.41	0.5	9	91	65	4.26	1.29	0.65
T5500E 6775N	201 202	20	0.6	7.09	4180	2.5	< 2	0.19	1.0	7	121	89	4.36	2.83	0.79
T5500E 6800N	201 202	< 5	0.6	4.63	2340	1.0	< 2	0.38	0.5	5	97	40	3.44	1.49	0.61
T5500E 6825N	201 202	< 5	< 0.2	5.25	1010	1.5	< 2	0.28	0.5	11	158	69	4.63	1.67	0.95
T5500E 6850N	201 202	< 5	0.6	6.23	5300	2.0	< 2	0.35	3.5	28	219	100	5.64	1.78	1.09
T5500E 6875N	201 202	< 5	< 0.2	5.49	1970	1.0	< 2	0.62	1.0	22	139	93	4.30	1.47	1.15
T5500E 6900N	201 202	< 5	0.4	5.06	2210	1.5	< 2	0.70	0.5	11	111	70	3.57	1.51	0.90
T5500E 6925N	201 202	< 5	0.4	5.19	750	1.5	< 2	0.29	0.5	7	131	114	4.08	1.83	0.94
T5500E 6950N	201 202	< 5	0.6	5.42	320	2.0	< 2	0.37	< 0.5	5	121	85	4.47	2.11	0.55
T5500E 6975N	201 202	75	1.0	4.15	1480	1.5	6	0.67	< 0.5	11	116	223	4.55	1.27	0.68
T5500E 7000N	201 202	< 5	< 0.2	5.15	2280	1.5	< 2	0.16	< 0.5	4	133	92	3.89	1.04	1.28
T5500E 7025N	201 202	< 5	0.4	4.64	1180	1.0	< 2	0.59	< 0.5	3	84	27	3.09	1.34	0.56
T5500E 7050N	201 202	< 5	0.4	3.76	1660	1.0	< 2	0.30	< 0.5	1	101	38	2.77	1.14	0.51
T5500E 7075N	201 202	< 5	1.2	5.21	1770	1.5	< 2	1.13	0.5	5	140	83	2.88	1.63	0.75
T5500E 7100N	201 202	< 5	< 0.2	5.42	960	1.5	< 2	0.91	< 0.5	5	88	32	3.38	1.43	0.82
T5500E 7125N	201 202	10	< 0.2	5.68	1490	1.5	< 2	0.78	< 0.5	14	95	113	4.10	1.38	1.05
T5500E 7175N	201 202	< 5	< 0.2	5.63	1820	1.0	< 2	2.96	< 0.5	38	402	101	7.20	1.33	3.98
T5500E 7200N	201 202	< 5	< 0.2	5.63	1750	0.5	6	4.49	< 0.5	26	412	99	7.43	1.01	3.43
T5500E 7225N	201 202	< 5	< 0.2	6.19	1750	0.5	< 2	2.25	< 0.5	27	414	102	6.88	1.04	3.75
T5500E 7250N	201 202	< 5	0.6	5.32	1450	1.0	< 2	2.46	< 0.5	29	406	137	6.77	1.01	3.39
T5500E 7275N	201 202	< 5	1.2	5.61	780	1.0	< 2	2.40	< 0.5	12	329	101	6.36	1.28	2.60
T5500E 7300N	201 202	< 5	2.0	5.27	2480	2.0	2	1.01	1.5	8	240	152	4.44	1.68	1.16
T5500E 7325N	201 202	10	1.2	5.44	2380	1.5	< 2	0.80	< 0.5	11	173	120	4.05	1.67	0.90
T5500E 7350N	201 202	185	0.6	5.72	2060	1.5	< 2	0.43	< 0.5	8	120	77	3.96	1.83	0.82
T5500E 7375N	201 202	< 5	< 0.2	4.67	1980	1.5	< 2	0.50	< 0.5	7	132	67	4.05	1.55	0.95
T5500E 7400N	201 202	< 5	0.8	6.54	2570	2.0	< 2	0.37	< 0.5	6	130	112	4.41	2.21	0.76
T5500E 7425N	201 202	< 5	0.4	5.27	2020	1.0	< 2	0.88	< 0.5	5	180	67	4.88	1.73	1.17
T5500E 7450N	201 202	< 5	< 0.2	5.73	1890	1.5	< 2	0.54	< 0.5	8	93	53	4.02	1.96	0.75
T5500E 7475N	201 202	< 5	< 0.2	5.81	1480	1.5	< 2	0.72	< 0.5	5	62	45	3.27	1.83	0.61
T5500E 7500N	201 202	< 5	< 0.2	5.68	1400	1.0	< 2	0.60	< 0.5	5	69	36	2.84	1.87	0.61

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

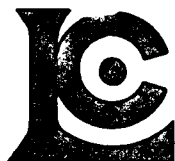
Project : WOLVERINE
Comments:

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Total : 1
Certificate Date: 30-JUL-97
Invoice No. : I9732400
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9732400

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
T5500E 6500N	201 202	1180	10	0.80	28	3250	44	124	0.26	136	< 10	96			
T5500E 6525N	201 202	580	4	2.37	9	1200	12	531	0.28	71	< 10	50			
T5500E 6550N	201 202	360	6	0.48	31	2240	24	71	0.22	130	< 10	92			
T5500E 6575N	201 202	1235	12	0.65	56	2010	50	115	0.27	146	< 10	166			
T5500E 6600N	201 202	980	22	0.63	48	1990	84	103	0.26	148	< 10	164			
T5500E 6625N	201 202	390	6	0.57	39	1620	20	83	0.29	132	< 10	108			
T5500E 6650N	201 202	240	4	0.34	28	2060	12	52	0.18	115	< 10	74			
T5500E 6675N	201 202	1130	4	0.40	35	4300	16	43	0.27	156	< 10	102			
T5500E 6700N	201 202	655	4	0.54	43	1390	18	78	0.34	167	< 10	118			
T5500E 6725N	201 202	260	5	0.59	42	1470	16	94	0.37	164	< 10	106			
T5500E 6750N	201 202	290	6	0.49	55	1040	16	86	0.37	165	< 10	146			
T5500E 6775N	201 202	330	9	0.44	75	1460	18	115	0.25	254	< 10	226			
T5500E 6800N	201 202	265	4	0.62	38	1660	14	79	0.39	155	< 10	112			
T5500E 6825N	201 202	765	6	0.48	79	1820	18	89	0.43	187	< 10	192			
T5500E 6850N	201 202	1105	6	0.53	136	2480	14	118	0.58	279	< 10	398			
T5500E 6875N	201 202	675	5	0.84	99	1430	20	118	0.39	159	< 10	178			
T5500E 6900N	201 202	470	5	0.90	62	1900	14	126	0.37	171	< 10	126			
T5500E 6925N	201 202	260	8	0.43	69	2020	22	75	0.25	236	< 10	176			
T5500E 6950N	201 202	230	28	0.55	73	2690	14	130	0.28	348	< 10	164			
T5500E 6975N	201 202	280	7	0.61	74	2380	44	122	0.29	223	< 10	190			
T5500E 7000N	201 202	215	8	0.44	64	1990	6	88	0.35	281	< 10	158			
T5500E 7025N	201 202	255	5	0.92	28	1970	10	119	0.36	163	< 10	90			
T5500E 7050N	201 202	175	6	0.49	35	3530	10	69	0.37	254	< 10	116			
T5500E 7075N	201 202	355	16	1.28	52	1830	16	204	0.42	1185	< 10	186			
T5500E 7100N	201 202	355	3	1.24	36	1520	12	151	0.38	128	< 10	90			
T5500E 7125N	201 202	395	3	1.15	96	1880	8	128	0.46	171	< 10	170			
T5500E 7175N	201 202	855	3	1.00	233	2370	14	204	0.86	199	< 10	200			
T5500E 7200N	201 202	1030	1	0.80	221	1780	8	239	0.87	218	< 10	220			
T5500E 7225N	201 202	960	< 1	1.01	174	1760	4	112	0.96	178	< 10	194			
T5500E 7250N	201 202	785	3	0.69	324	2460	4	94	0.89	245	< 10	296			
T5500E 7275N	201 202	605	4	0.73	126	3640	8	140	0.85	280	< 10	216			
T5500E 7300N	201 202	435	10	0.65	109	2720	32	129	0.47	463	< 10	402			
T5500E 7325N	201 202	470	6	0.54	90	3270	34	89	0.31	256	< 10	266			
T5500E 7350N	201 202	335	5	0.50	62	1160	24	72	0.28	167	< 10	196			
T5500E 7375N	201 202	360	4	0.36	63	1320	22	57	0.31	163	< 10	188			
T5500E 7400N	201 202	295	8	0.49	63	1600	70	73	0.24	231	< 10	248			
T5500E 7425N	201 202	380	6	0.60	64	2210	32	100	0.45	217	< 10	192			
T5500E 7450N	201 202	445	5	0.58	42	1050	36	80	0.30	138	< 10	152			
T5500E 7475N	201 202	325	4	0.96	26	910	34	151	0.26	108	< 10	130			
T5500E 7500N	201 202	300	4	0.92	23	1190	28	165	0.20	114	< 10	94			

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9744506

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9744506

(GP W) - WESTMIN RESOURCES LTD.

Project: 6413
P.O. #:

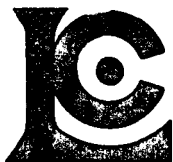
Samples submitted to our lab in Vancouver, BC.
This report was printed on 5-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	12	Geochem ring to approx 150 mesh
226	12	0-3 Kg crush and split
3202	12	Rock - save entire reject
285	12	ICP - HF digestion charge
287	12	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	12	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	12	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	12	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	12	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	12	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	12	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	12	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	12	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	12	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	12	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	12	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	12	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	12	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	12	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	12	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	12	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	12	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	12	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	12	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	12	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	12	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	12	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	12	Pb ppm: 24 element, rock & core	AAS	2	10000
582	12	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	12	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	12	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	12	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	12	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6413
Comments: ATTN: DAVID TERRY

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Total Pages : 1
Certificate Date: 05-OCT-97
Invoice No. : I9744506
P.O. Number :
Account : GP W

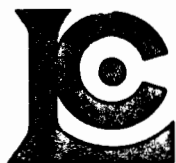
CERTIFICATE OF ANALYSIS

A9744506

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
DTYT97-01	205 226	< 5	1	0.4	< 10	< 0.2	7.77	760	1.5	2	1.79	0.5	< 1	103	38
DTYT97-02	205 226	< 5	6	0.2	< 10	< 0.2	8.51	550	1.5	4	0.14	1.5	18	80	141
DTYT97-03	205 226	< 5	2	0.2	< 10	< 0.2	1.01	180	< 0.5	< 2	0.04	< 0.5	1	326	14
DTYT97-04	205 226	< 5	2	0.2	10	< 0.2	6.35	920	2.0	< 2	0.11	0.5	< 1	84	8
DTYT97-05	205 226	30	1	< 0.2	10	< 0.2	7.90	680	1.0	6	2.22	0.5	30	115	1960
GBYT97-01	205 226	< 5	4	< 0.2	< 10	< 0.2	7.39	240	0.5	< 2	2.44	0.5	7	58	452
GBYT97-02	205 226	< 5	1	0.2	< 10	< 0.2	7.99	520	1.0	< 2	2.03	0.5	5	81	214
GBYT97-03	205 226	< 5	2	0.2	< 10	< 0.2	1.42	220	< 0.5	< 2	0.05	< 0.5	2	157	58
GBYT97-04	205 226	< 5	4	0.2	10	0.4	0.96	180	< 0.5	< 2	0.03	< 0.5	1	239	35
MPYT97-001	205 226	< 5	4	0.2	< 10	< 0.2	5.91	70	1.0	< 2	3.01	0.5	40	1110	109
MPYT97-002	205 226	< 5	1	< 0.2	10	< 0.2	6.63	2120	1.5	< 2	0.17	1.5	2	117	34
MPYT97-003	205 226	< 5	4	< 0.2	< 10	< 0.2	0.27	150	< 0.5	< 2	0.01	< 0.5	2	188	104

CERTIFICATION:

David Terry



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6413
Comments: ATTN: DAVID TERRY

Page : 1-B
Total Pages : 1
Certificate Date: 05-OCT-97
Invoice No. : 19744506
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9744506

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
DTYT97-01	205 226	4.45	1.38	1.50	435	3	0.66	2	430	30	254	0.23	118	< 10	112
DTYT97-02	205 226	4.80	1.47	1.59	650	5	0.78	5	460	30	95	0.27	152	< 10	162
DTYT97-03	205 226	0.83	0.23	0.28	115	2	0.09	4	140	4	13	0.03	18	< 10	28
DTYT97-04	205 226	1.08	4.49	0.23	220	1	1.53	3	90	24	92	0.09	11	< 10	42
DTYT97-05	205 226	4.81	1.62	1.62	270	8	1.31	6	450	4	201	0.26	143	< 10	30
GBYT97-01	205 226	2.89	0.88	1.92	455	13	1.68	4	410	8	322	0.23	121	< 10	44
GBYT97-02	205 226	3.32	1.36	1.82	230	9	1.86	2	440	28	327	0.25	130	< 10	44
GBYT97-03	205 226	1.89	0.04	0.75	335	< 1	0.47	14	280	14	18	0.11	31	< 10	64
GBYT97-04	205 226	2.15	0.29	0.29	925	3	0.05	6	50	12	5	0.02	32	< 10	50
MPYT97-001	205 226	5.56	0.15	8.18	1100	< 1	1.42	407	1190	< 2	112	0.32	180	< 10	104
MPYT97-002	205 226	0.89	3.97	0.13	840	1	0.26	3	40	16	53	0.04	4	< 10	80
MPYT97-003	205 226	0.87	0.05	0.13	85	3	0.03	6	60	4	5	< 0.01	8	< 10	22

CERTIFICATION: 19744506



Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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to: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9744507

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9744507

(GP W) - WESTMIN RESOURCES LTD.

Project: 6413
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299 200	3 3	Pulp; prepped on other workorder Whole rock fusion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
594	3	Al2O3 %: Whole rock	ICP-AES	0.01	100.00
588	3	CaO %: Whole rock	ICP-AES	0.01	100.00
590	3	Cr2O3 %: Whole Rock	ICP-AES	0.01	100.00
586	3	Fe2O3(total) %: Whole rock	ICP-AES	0.01	100.00
821	3	K2O %: Whole rock	ICP-AES	0.01	100.00
593	3	MgO %: Whole rock	ICP-AES	0.01	100.00
596	3	MnO %: Whole rock	ICP-AES	0.01	100.00
599	3	Na2O %: Whole rock	ICP-AES	0.01	100.00
597	3	P2O5 %: Whole rock	ICP-AES	0.01	100.00
592	3	SiO2 %: Whole rock	ICP-AES	0.01	100.00
595	3	TiO2 %: Whole rock	ICP-AES	0.01	100.00
475	3	L.O.I. %: @ 1000 deg.C	FURNACE	0.01	99.99
540	3	Total %	CALCULATION	0.01	105.00



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Account : GP W

SAMPLE	PREP		Al2O3	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	
	CODE		%	%	%	%	%	%	%	%	%	%	%	%	%	
DTYT97-01	299	200	15.39	2.72	0.01	6.81	1.69	2.60	0.07	0.82	0.13	65.50	0.44	4.34	100.50	
DTYT97-04	299	200	12.76	0.10	0.01	1.67	6.20	0.42	0.03	2.32	0.07	75.00	0.18	1.06	99.82	
GBYT97-03	299	200	2.07	0.02	0.01	2.16	0.24	1.34	0.04	0.84	0.03	90.00	0.08	1.59	98.42	

CERTIFICATION: Heath Buchler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9744508

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9744508

(GP W) - WESTMIN RESOURCES LTD.

Project: 6413
P.O. #:

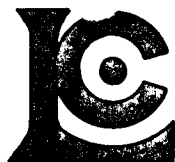
Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	3	Pulp; prepped on other workorder
297	3	Meta-borate fusion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2855	3	Ba ppm: ICP-MS	ICP-MS	0.5	10000
2501	3	Ce ppm: ICP-MS	ICP-MS	0.5	10000
2858	3	Cs ppm: ICP-MS	ICP-MS	0.1	10000
2859	3	Co ppm: ICP-MS	ICP-MS	0.5	10000
2860	3	Cu ppm: ICP-MS	ICP-MS	5	10000
2502	3	Dy ppm: ICP-MS	ICP-MS	0.1	1000
2503	3	Er ppm: ICP-MS	ICP-MS	0.1	1000
2504	3	Eu ppm: ICP-MS	ICP-MS	0.1	1000
2505	3	Gd ppm: ICP-MS	ICP-MS	0.1	1000
2861	3	Ga ppm: ICP-MS	ICP-MS	1	1000
2842	3	Hf ppm: ICP-MS	ICP-MS	1	10000
2506	3	Ho ppm: ICP-MS	ICP-MS	0.1	1000
2507	3	La ppm: ICP-MS	ICP-MS	0.5	10000
2862	3	Pb ppm: ICP-MS	ICP-MS	5	10000
2508	3	Lu ppm: ICP-MS	ICP-MS	0.1	1000
2509	3	Nd ppm: ICP-MS	ICP-MS	0.5	1000
2863	3	Ni ppm: ICP-MS	ICP-MS	5	10000
2844	3	Nb ppm: ICP-MS	ICP-MS	1	10000
2510	3	Pr ppm: ICP-MS	ICP-MS	0.1	1000
2864	3	Rb ppm: ICP-MS	ICP-MS	0.2	10000
2511	3	Sm ppm: ICP-MS	ICP-MS	0.1	1000
2865	3	Ag ppm: ICP-MS	ICP-MS	1	1000
2867	3	Sr ppm: ICP-MS	ICP-MS	0.1	10000
2868	3	Ta ppm: ICP-MS	ICP-MS	0.5	10000
2512	3	Tb ppm: ICP-MS	ICP-MS	0.1	1000
2869	3	Tl ppm: ICP-MS	ICP-MS	0.5	1000
2550	3	Th ppm: ICP-MS	ICP-MS	1	1000
2513	3	Tm ppm: ICP-MS	ICP-MS	0.1	1000
2870	3	Sn ppm: ICP-MS	ICP-MS	1	10000
2871	3	W ppm: ICP-MS	ICP-MS	1	10000
2549	3	U ppm: ICP-MS	ICP-MS	0.5	1000
2872	3	V ppm: ICP-MS	ICP-MS	5	10000
2514	3	Yb ppm: ICP-MS	ICP-MS	0.1	1000
2873	3	Y ppm: ICP-MS	ICP-MS	0.5	10000
2874	3	Zn ppm: ICP-MS	ICP-MS	5	10000
2875	3	Zr ppm: ICP-MS	ICP-MS	0.5	10000



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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6413
Comments: ATTN: DAVID TERRY

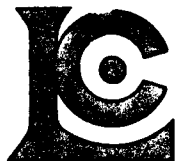
Page Number : 1-A
Total Pages : 1
Certificate Date: 11-OCT-97
Invoice No. : 19744508
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS

A9744508

SAMPLE	PREP CODE		Ba ppm	Ce ppm	Cs ppm	Co ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Gd ppm	Ga ppm	Hf ppm	Ho ppm	La ppm	Pb ppm	Lu ppm	Nd ppm	Ni ppm	Nb ppm	Pr ppm
DTYT97-01	299	297	850	29.0	1.7	< 0.5	35	1.6	1.2	0.7	2.2	16	2	0.4	15.0	30	0.1	8.0	< 5	9	3.0
DTYT97-04	299	297	1025	87.5	2.4	3.0	5	4.1	2.9	0.7	5.7	14	3	0.9	50.0	20	0.4	29.0	< 5	14	10.2
GBYT97-03	299	297	165.5	11.0	0.1	< 0.5	10	1.0	0.6	0.1	0.8	3	< 1	0.2	6.0	< 5	0.1	3.0	< 5	2	1.2

CERTIFICATION:



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6413
Comments: ATTN: DAVID TERRY

Page .ber :1-B
Total Pages :1
Certificate Date: 11-OCT-97
Invoice No. :19744508
P.O. Number :
Account :GP W

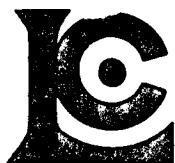
CERTIFICATE OF ANALYSIS

A9744508

SAMPLE	PREP CODE		Rb ppm	Sm ppm	Ag ppm	Sr ppm	Ta ppm	Tb ppm	Tl ppm	Th ppm	Tm ppm	Sn ppm	W ppm	U ppm	V ppm	Yb ppm	Y ppm	Zn ppm	Zr ppm
DTYT97-01	299	297	55.6	1.8	< 1	256	2.5	0.4	0.5	5	0.2	5	5	3.0	120	1.3	8.5	105	98.5
DTYT97-04	299	297	185.0	5.5	< 1	94.1	6.5	0.8	0.5	16	0.5	2	1	5.0	15	2.6	22.0	35	112.0
GBYT97-03	299	297	3.2	0.7	< 1	22.7	3.5	0.1	< 0.5	< 1	0.1	< 1	2	0.5	20	0.6	6.0	20	16.5

CERTIFICATION:

David Terry



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to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9745390

Comments: ATTN: DAVE TERRY

CERTIFICATE

A9745390

(GP) - WESTMIN RESOURCES LTD.

Project: 6408(TY)
P.O. #:

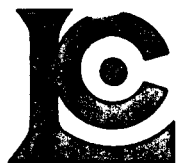
Samples submitted to our lab in Vancouver, BC.
This report was printed on 9-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	3	Geochem ring to approx 150 mesh
226	3	0-3 Kg crush and split
3202	3	Rock - save entire reject
285	3	ICP - HF digestion charge
287	3	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	3	As ppm: HNO ₃ -aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	3	Sb ppm: HCl-KClO ₃ digest, extrac	AAS-BKGD CORR	0.2	1000
20	3	Hg ppb: HNO ₃ -HCl digestion	AAS-FLAMELESS	10	100000
578	3	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	3	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	3	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	3	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	3	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	3	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	3	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	3	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	3	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	3	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	3	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	3	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	3	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	3	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	3	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	3	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	3	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	3	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	3	Pb ppm: 24 element, rock & core	AAS	2	10000
582	3	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	3	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	3	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	3	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	3	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6408(TY)
Comments: ATTN: DAVE TERRY

Page : 1-A
Total Pages : 1
Certificate Date: 09-OCT-97
Invoice No. : I9745390
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS

A9745390

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
271219	205 226	< 5	4	1.2	< 10	< 0.2	0.20	9010	< 0.5	< 2	0.29	3.0	< 1	12	16
271220	205 226	< 5	184	18.0	10	< 0.2	4.45	>10000	1.5	2	2.65	16.5	4	274	46
271221	205 226	< 5	24	3.0	< 10	0.4	6.39	150	0.5	< 2	9.42	< 0.5	85	694	112

CERTIFICATION:

David Bechler



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V7X 1C4

Project : 6408(TY)
Comments: ATTN: DAVE TERRY

Page : 1-B
Total Pages : 1
Certificate Date: 09-OCT-97
Invoice No. : I9745390
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS A9745390

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
271219	205 226	0.16	0.02	0.03	15	1	0.02	17	1020	< 2	57	0.01	47	< 10	84
271220	205 226	1.57	2.38	1.71	250	16	0.50	159	4330	8	181	0.23	778	< 10	474
271221	205 226	6.84	0.95	5.47	1115	< 1	0.81	635	1310	< 2	265	1.12	225	< 10	142

CERTIFICATION:

[Signature]



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PHONE: 604-984-0221

TO: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

1 9 7 4 6 1 6 7

BILLING INFORMATION

Date: 16-OCT-97

Project: 6410

P.O. No.:

Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9746167

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
21	244 - Pulp; prev. prepared at Chemex	0.00		
	16 - Se ppm	1.25		
	287 - Special dig'n with organic ext'n	5.25	6.50	136.50

Total Cost \$	136.50
Client Discount (25%) \$	-34.13
Net Cost \$	102.37
(Reg# R100938885) GST \$	7.17
TOTAL PAYABLE (CDN) \$	109.54

COPY



212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

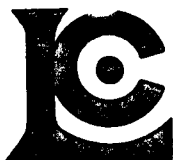
Project: 6410
Comments: ATTN: DAVID TERRY

GP W

A9746167

CERTIFICATION:

Hank B. Miller



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9746167

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9746167

(GP W) - WESTMIN RESOURCES LTD.

Project: 6410
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244 287	21 21	Pulp prev. prepared at Chemex Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
16	21	Se ppm: HCl-KClO ₃ digest, ext	AAS-BKGD CORR	0.2	100.0



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TO: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6410
Comments: ATTN: DAVID TERRY

Page : 1
Total Pages : 1
Certificate Date: 15-OCT-97
Invoice No. : 19746167
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS

A9746167

SAMPLE	PREP CODE		Se ppm									
T5000E 7000N	244	287	0.2									
T5000E 7025N	244	287	< 0.2									
T5000E 7050N	244	287	< 0.2									
T5000E 7075N	244	287	< 0.2									
T5000E 7100N	244	287	< 0.2									
T5000E 7125N	244	287	0.2									
T5000E 7150N	244	287	4.0									
T5000E 7175N	244	287	4.2									
T5000E 7200N	244	287	3.0									
T5000E 7225N	244	287	3.2									
T5000E 7250N	244	287	3.0									
T5000E 7275N	244	287	5.8									
T5000E 7300N	244	287	3.0									
T5000E 7325N	244	287	3.0									
T5000E 7350N	244	287	0.6									
T5000E 7375N	244	287	0.4									
T5000E 7400N	244	287	0.4									
T5000E 7425N	244	287	0.4									
T5000E 7450N	244	287	0.6									
T5000E 7475N	244	287	0.8									
T5000E 7500N	244	287	0.4									

CERTIFICATION:

11-01-97



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

to: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

INVOICE NUMBER

I 9 7 4 6 1 6 8

BILLING INFORMATION

Date: 16-OCT-97

Project: 6410

P.O. No.:

Account: GP W

Comments:

Billing: For analysis performed on
Certificate A9746168

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

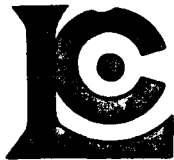
Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
41	244 - Pulp; prev. prepared at Chemex	0.00		
	16 - Se ppm	1.25		
	287 - Special dig'n with organic ext'n	5.25	6.50	266.50

Total Cost \$	266.50
Client Discount (25%) \$	-66.63
Net Cost \$	199.87
(Reg# R100938885) GST \$	13.99
TOTAL PAYABLE (CDN) \$	213.86



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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

QC F # 1
Tot QC # 1
Date: 15-OCT-97
Invoice #: 19746168
P.O. #: GP W

QC DATA OF CERTIFICATE

A9746168

STD/DUP/BLANK DESCRIPTION	QC TYPE	PAGE NO.	Se ppm									
GEO-96	Std1	1	< 0.2									
GEO-96	Std2	1	0.4									
CHEMEX MEAN	---	---	0.5									
SIO2-G2	Blk	1	< 0.2									
CHEMEX MEAN	---	---	< 0.2									
T5100E 7000N	Dup1-01		2.2									
	Orig1-01		2.2									

CERTIFICATION:

David Terry



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A9746168

Comments: ATTN: DAVID TERRY

CERTIFICATE

A9746168

(GP W) - WESTMIN RESOURCES LTD.

Project: 6410
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244 287	42 42	Pulp prev. prepared at Chemex Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
16	41	Se ppm: HCl-KClO3 digest, ext	AAS-BKGD CORR	0.2	100.0



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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
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VANCOUVER, BC
V7X 1C4

Project: 6410
Comments: ATTN: DAVID TERRY

Page : 1
Total Pages : 2
Certificate Date: 15-OCT-97
Invoice No. : I9746168
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS

A9746168

SAMPLE	PREP CODE	Se ppm										
T5100E 7000N	244 287	2.2										
T5100E 7025N	244 287	9.0										
T5100E 7050N	244 287	8.0										
T5100E 7075N	244 287	not/ss										
T5100E 7100N	244 287	3.0										
T5100E 7125N	244 287	3.0										
T5100E 7150N	244 287	3.0										
T5100E 7175N	244 287	5.0										
T5100E 7200N	244 287	7.0										
T5100E 7225N	244 287	8.0										
T5100E 7250N	244 287	6.0										
T5100E 7275N	244 287	9.2										
T5100E 7300N	244 287	4.4										
T5100E 7325N	244 287	2.2										
T5100E 7350N	244 287	2.4										
T5100E 7375N	244 287	1.8										
T5100E 7400N	244 287	2.2										
T5100E 7425N	244 287	1.6										
T5100E 7450N	244 287	0.6										
T5100E 7475N	244 287	0.2										
T5100E 7500N	244 287	1.0										
T5200E 7000N	244 287	2.4										
T5200E 7025N	244 287	1.0										
T5200E 7050N	244 287	4.0										
T5200E 7075N	244 287	3.0										
T5200E 7100N	244 287	6.0										
T5200E 7125N	244 287	14.8										
T5200E 7150N	244 287	19.8										
T5200E 7175N	244 287	2.4										
T5200E 7200N	244 287	10.4										
T5200E 7225N	244 287	6.0										
T5200E 7250N	244 287	5.8										
T5200E 7275N	244 287	4.0										
T5200E 7300N	244 287	4.0										
T5200E 7325N	244 287	3.0										
T5200E 7350N	244 287	2.4										
T5200E 7375N	244 287	2.8										
T5200E 7400N	244 287	2.4										
T5200E 7425N	244 287	2.0										
T5200E 7450N	244 287	1.6										

CERTIFICATION:

[Signature]

APPENDIX E
MAG – HLEM REPORT

WESTMIN RESOURCES LIMITED
GROUND TOTAL MAGNETIC FIELD
AND HLEM SURVEYS OF THE TY
PROPERTY, FINLAYSON AREA,
SOUTHERN YUKON TERRITORY

C. Lee, B. Sc.

PROPERTIES

TY

Centred at: 61° 29' N 130° 15' W
NTS: 105 G
Mining District: Watson Lake, YT
Date: July 24, 1997

SUMMARY

Ground total magnetic field and horizontal loop electromagnetic field (HLEM) surveys were conducted on the Ty Property near Wolverine Lake from June 29 to July 12, 15 - 17, 1997. The surveys were conducted to map stratigraphy favourable for the location of volcanogenic massive sulphide (VMS) deposits and, if possible, to directly locate VMS mineralization based on the geophysical responses. HLEM surveys were conducted using a coil spacing of 100 m, station spacing of 25 m and reading frequencies of 440, 880, 1760, and 3520 Hz. Total magnetic field surveys were conducted using a station spacing of 12.5 m. A total of 22.35 line-km were surveyed on the northern and southern Ty grids.

HLEM surveys identified 2 anomalies one on the northern and one on the southern Ty grids. The anomaly on the northern grid exhibited a strong EM response, wide conductor width, and associated weak positive magnetic response suggesting that it is most likely caused by the graphitic, argillaceous metasediments. The anomaly present on the southern grid exhibits a weak EM response with no associated magnetic anomaly and does not appear to be a target of interest.

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1.0 INTRODUCTION

Amerok Geosciences Ltd. was retained by Westmin Resources Limited to conduct ground total magnetic field and horizontal loop electromagnetic field (HLEM) surveys on the Ty Property near Wolverine Lake in the south central Yukon Territory. The surveys were conducted from June 29 to July 12, 15 - 17, 1997 in support of an exploration program for volcanogenic massive sulphide deposits. This report describes the surveys performed, the data, results and interpretation.

2.0 SURVEY PROCEDURES

A cut grid consisting of a total of 22.35 line-km covering the Ty Property over two grids the northern and the southern, are connected by a tie-line. The grid consisted of a cut slope corrected base line and cut, slope chained (not slope corrected) survey lines. Grids were picketed at a 25 m interval using tagged survey lathe. The southern grid was re-flagged and slope chained over the old soil grid that was slope corrected to accommodate the geophysical surveys.

Ground total magnetic field surveys and HLEM surveys were conducted on the Ty Property from June 29 to July 12, 15-17, 1997. The surveys were conducted by C. Lee and D. Smith on the Ty Property. The geophysical surveys were performed with the following instruments:

HLEM instruments

Apex Parametrics Maxmin I-9 with attached MMC (datalogger/computer). This instrument operates at 110, 220, 440, 880, 1760, 3520, 7040, 14,080 and 28,160 Hz. Cables at lengths of 50, 100 and 150 m were used in the surveys.

Magnetic field instruments

2 Omni Plus proton precession magnetometers, 1 Omni IV proton precession magnetometer.

Other

P-75 laptop computer, Fujitsu colour printer. All data was processed and plotted in GEOPAK.

The HLEM surveys were performed using the 100 m cable and frequencies of 440, 880, 1760 and 3520 Hz reading stations every 25 m. The HLEM method requires that the coils be held a constant distance apart and be coplanar. In steep irregular terrain, the coils will frequently be less than the nominal coil spacing (short coiling) and may not be coplanar. These variations in coil geometry produce strong in-phase errors and these must be removed from the data before plotting and interpretation. The method used to mitigate these effects requires a slope chained grid and requires the operator to measure the station-to-station terrain slope in percent with a clinometer. This is normally done by the receiver operator who was in the lead position on most surveys. The correct slope required to maintain the coils coplanar is the arithmetic average of the station to station slopes in the interval between the two coils. The operators hold the coils coplanar during the surveys by holding their coils at this orientation which is calculated and displayed for each reading station by the Maxmin MMC. The effect of short coiling created by irregular topography was removed with Apex Parametrics data processing software (MMCFIX1). The numerical method is described in Varre (1990)(pp. AII-3-4).

The magnetic field surveys were conducted using a 12.5 m station spacing. The base station magnetometer was synchronized with the field units daily, prior to the surveys and cycled at 15 to 20 s during the surveys. Corrections to the field data for temporal geomagnetic variation during the surveys were performed either by on-board software or, after dumping, by computer software. The data was leveled between operators and releveled to the datum used in the 1996 magnetic field survey.

3.0 GEOLOGICAL SUMMARY

The following is a brief summary of the local geology at the Ty Property provided by Westmin Resources Limited.

Ty Property is underlain by Devonian to Mississippian meta-igneous and metasedimentary rocks, situated in the east-central portion of the Finlayson Lake Belt.

The two grids centred on the Ty Property are divided into the northern and southern grids. The southern grid overlies the valley and the swamp portions of the property where little to no outcrop occurs except along the north flowing creek at the southern part of the south grid exposing felsic to intermediate volcanic pyroclastic rocks. The northern grid is situated across the valley on the southern side of the mountain extending over the top towards the north side of the mountain. The grid lies over talus as well as outcrops of dark coloured graphitic to argillaceous to cherty metasedimentary rocks, quartz-sericite schist, and felsic tuffs.

The main showing on the Ty Property occurs in the easternmost south flowing creek within lenses of semi-massive to massive pyrite hosted within a quartz gangue. These lenses are contained within a siliceous rhyolite. Other occurrences are present in boudinaged pods of pyrite within the contact between the barite and the underlying quartz-sericite schist.

4.0 HLEM AND MAGNETIC FIELD INTERPRETATION PROCEDURES

A brief summary of the HLEM method is contained in Appendix C. The data was interpreted using standard plate models appropriate to the geological framework discussed above. The following notes summarize important aspects of the interpretation:

1. Anomalous responses and conductor axis locations were taken from the 3520 Hz data (highest operating frequency) for the Ty Property. Some of these anomalies have no response at lower frequencies because of their low conductance.
2. Conductors were interpreted as dipping thin-plate responses conformable with the geology and conductor axes indicate the horizontal projection of the conductor apexes. There were no responses which could be realistically interpreted as arising from compact (e.g. sub-spherical) or flat-lying conductors.
3. Some responses show excess width in the response (i.e. greater than 100 m between zero base level cross-overs in the trough of the HLEM anomaly). This is often an indicator of significant conductor width and the excess width can be used to estimate the thickness of the conductor. This excess width is prone to error, particularly in the case of weak responses. Excess width is indicated in metres on the lower right hand side of the anomaly symbols.
4. Conductance symbols at each conductor location show the conductor parameters interpreted at 3520 Hz. Indicated response width is the lesser of the IP and Q response widths where they differ. Massive sulphide conductors show target conductances varying from 1 to 40 Siemens, depending upon the mineralogy. Massive sulphide horizons with heavy concentrations of chalcopyrite and pyrrhotite have high conductances while assemblages with abundant galena-sphalerite-pyrite show lower conductances. Zinc-rich conductors are at the lower limit of the quoted conductance range.
5. Conductances were determined from the 3520 Hz data. Conductance

determinations will vary with frequency. Conductance is derived from the ratio of the IP to Q which, when plotted on characteristic curves permits, the determination of a response parameter. The response parameter in turn, can be decomposed to produce a conductance estimate (conductivity thickness product). The response parameter is the product of the conductor's magnetic susceptibility, conductivity and thickness, the operating frequency and the coil spacing. The change in IP/Q versus the change in response parameter is often used to determine the nature of a conductor. Conductors which are inductively thick (i.e. greater than one skin depth) show a drop off in IP/Q with increasing response parameter. Most conductive massive sulphide horizons are inductively thick because their skin depth is only a few metres. Other geological targets, with the possible exception of very conductive graphite, are inductively thin.

5.0 DATA PRESENTATION AND FORMATS

Digital data is appended to this report in ASCII XYZ format. Each file has a header on the first line showing the data contained in the columns beneath. For the magnetic field data, the common format is:

Line Station X Y Corr_mag

For the HLEM data, the common format is:

Line Station X Y 440IP 440Q 880IP 880Q 1760IP 1760Q 3520IP 3520Q

Corr_mag denote total magnetic field data corrected for diurnal variation. xxxIP and xxxQ denotes in-phase and quadrature components at the prefixing frequency in percent of the vertical primary magnetic field (H_z) corrected for terrain effect.

HLEM data is displayed in stacked profile plots showing the survey grid and the in-phase and quadrature readings as solid and dashed line profiles. The zero level on each profile is coincident with the survey line and the direction of the positive response is shown diagrammatically in the legend. A scale of 10% H_z per cm was used in the plotting. Along the grid lines, the small tick marks show the station locations and every 100 m is indicated by a larger tick. Conductors of interest are indicated with symbols at each intersection. All anomalies were interpreted as thin tabular conductors unless otherwise indicated. Conductor axes formed by linking similar line-to-line responses are indicated by thick lines.

Total magnetic field data is displayed in colour contoured maps. These show the locations of the grid lines, marked in the same fashion as in the HLEM plots and contoured values of the total magnetic field. Superimposed on this is a full colour contour plot and any HLEM conductor axes.

6.0 RESULTS

Copies of the digital data are appended to this report in the standard format. Plots of the data collected are contained in the back pockets of this report. The following figures display the data collected on this property:

Figure	Location	Description
TY-1	Pocket	Maxmin I-10 / 440 Hz - 100 m coils stacked profiles
TY-2	Pocket	Maxmin I-10 / 880 Hz - 100 m coils stacked profiles
TY-3	Pocket	Maxmin I-10 / 1760 Hz - 100 m coils stacked profiles
TY-4	Pocket	Maxmin I-10 / 3520 Hz - 100 m coils stacked profiles
TY-5	Pocket	Total magnetic field with HLEM anomalies.

In-phase HLEM noise levels at 440 Hz are estimated at $\pm 1\%$ H_z based on measurements of station-to-station excursions from average base level in quiet areas. The noise level on the 3520 Hz plots rises to $\pm 2\%$ H_z and includes the effect of conductive overburden. Total magnetic field noise levels were estimated using a similar procedure from a stacked profile plot and appear to be ± 10 nT in quiet areas rising to ± 25 nT in areas of outcrop. The magnetic noise levels reflect the presence of near surface magnetic material and are well above the instrument noise levels.

Anomalies located on the Ty grid are tabulated in Appendix B. A total of 2 conductors were delineated, one based on a line-to-line comparison of HLEM responses and the other an isolated response. All conductances were derived from the 3520 Hz data.

The magnetic response on the Ty grid varies within 140 gammas. Overall the southern grid has very low magnetic relief with a isolated positive magnetic response in the southeast corner. This magnetic high does not have an associated EM response and is therefore most likely due to the presence of magnetite. EM anomaly, TY-2, on line 4800E has very little quadrature response, has no apparent lateral continuity, and consequently is of little economic interest.

Anomaly **TY-1** on the northern grid has a strong EM response on line 5100E and weaker associated response on line 5000E. This anomaly occurs in a area of low magnetic relief and has a apparent conductor width of 0 - 85 m. Conductances fall within 1 - 2 Siemens and are considered to lie within the lower range for massive sulphide conductors. The responses are estimated to be dipping to the north at approximately 30 degrees. This anomaly is interpreted to be a result of a graphitic argillaceous unit due to the nature of the responses and the presence of the outcrop in the area.

7.0 CONCLUSIONS

The results of the surveys on the Ty grid suggest the following conclusions:

- a. The anomaly present on the northern grid is most likely associated with the outcropping dark grey graphitic metasediments based on its target width and coincident low magnetic response.
- b. The presence of anomaly **TY-2** on the southern grid is uncertain due to the absence of outcrop as well as a coincident positive magnetic response.

8.0 RECOMMENDATIONS

The following recommendations are made:

- a. Anomaly **TY-1** should be tested on line 5100E. The conductor apex is at 7180N and the conductor is presumed to be conformable with local bedding. The uncertainty in the conductor apex location is ± 25 m.
- b. The lateral extent of anomaly **TY-2** should be tested with 100 m line spacing as well as extending line 4600E.

Respectfully submitted
AMEROK GEOSCIENCES LTD.

C. Lee, B.Sc.
Geologist

July 24, 1997

REFERENCES CITED

Mortensen, J.K. and G.A. Jilson (1985) Evolution of the Yukon-Tanana terrane: Evidence from the southeastern Yukon Territory. in: Geology Vol. 13 p806-810.

Telford, W.M., L.P. Geldart and R.E. Sheriff (1990) Applied Geophysics (2nd Edition) New York: Cambridge University Press.

Ketola, M. and M. Puranen (1967) Type curves for the interpretation of Slingram (horizontal loop) anomalies over tabular bodies. Geological Survey of Finland Report of Investigations No. 1.

Varre, T. (1990) Apex Parametrics Maxmin I-9 manual. Uxbridge: Apex Parametrics.

APPENDIX A. CERTIFICATE

I, Carmen Lee, B.Sc. of Whitehorse, Yukon Territory do hereby certify that:

1. I obtained a Bachelor of Science Degree in Geology from the University of Calgary in 1996.
2. I have been employed in mineral exploration and geophysical research since 1996.
3. I performed the geophysical surveys described in this report.

Dated this 24th day of July, 1997 in Whitehorse, Yukon.

Respectfully submitted,

Carmen Lee, B.Sc.

APPENDIX B. ANOMALY LISTINGS

TY PROPERTY

Anomaly TY-1

Apex Location	Depth to top (m)	Dip / Dip direction	Excess Width (m)	Conductance (S)
L5100E 7180N	10-20	<30°	0	1.89
L5000N 7200E	10-20	vertical	30-85	1.89

Anomaly TY-2

Apex Location	Depth to top (m)	Dip / Dip direction	Excess Width (m)	Conductance (S)
L4800E 5250N	N/I	N/I	N/I	N/I

APPENDIX C. NOTES ON THE HLEM METHOD

The horizontal loop EM method is well described in standard texts such as Telford *et al.* (1990) and Ketola and Puranen (1967). This section summarizes the key features of the HLEM method and describes the interpretation algorithms used in this survey program.

The HLEM method involves the use of a pair of separated horizontal coils (Figure MM1). Most commonly, the surveys are conducted in the frequency domain. In this method, a sine wave of variable frequency is sent through one of the coils to create a time-varying vertical magnetic dipole source. The second coil is a receiver which detects both the primary signal from the transmitting coil and a secondary signal created by magnetic induction in a conductive target in the earth. There are two variants of the method in the frequency domain are the Slingram or conventional HLEM method and the Genie method.

The Slingram method (commonly referred to as HLEM) requires that a sample of the transmitted signal be sent along a wire to the receiver where it is used to synchronize the phase of the receiver with the transmitter. This permits the receiver to remove the effect of the transmitter signal (primary field) and to split the remaining secondary field into two components. One component represents the portion of the secondary field which is synchronized or in-phase with the primary field (in-phase component). The second component is the portion of the secondary field which lags the primary field by one quarter cycle (90°) (quadrature component). The ratio of the in-phase to quadrature components is used to determine the electrical conductance of a target.

HLEM instruments remove the primary field from the signal to leave only the secondary field. By convention, a secondary field in the same direction as the primary field is recorded as positive while a secondary field in the opposite direction to the primary field is recorded as negative. HLEM data is commonly plotted as profiles with the reading plotted at the midpoint between the transmitter and receiver. The reason for this is that the response from a steeply dipping conductor, the most common target of this method, is strongest when the two coils straddle the conductor. Normally, the in-phase response is plotted as a solid line and the quadrature response as a dashed line.

The HLEM response of a flat lying body is shown in Figure MM 2(a). Magnetic field lines (flux) are directed primarily into the region beneath the transmitter loop. Lenz's Law dictates that the induced secondary field will oppose the primary field. Consequently, at the receiver, both the primary and secondary field will be in the same direction. As a result, the response from a flat lying conductor consists of a positive response over the target. At the edge of the conductor, there is a negative response which occurs when both coils are straddling the edge of the conductor. When either the transmitter or receiver coil is over the edge of the conductor, there is no secondary field and the response is zero. As the depth to the flat lying conductor increases, the strength of the response is attenuated. The effective depth of investigation of the HLEM method for flat lying conductors is approximately 1.5 times the coil spacing.

The HLEM response of a steeply dipping conductor is shown in Figure MM2(b). Field lines from the transmitter are horizontal at a point midway between the two coils and in this orientation, cut the conductor at right angles creating the best coupling. Lenz's Law dictates that the secondary field will oppose the primary field and at the receiver coil, the secondary field is in the opposite direction to the primary field. As a result, the response when profiling over a steeply dipping conductor consists of a trough with peak negative value occurring when the coils straddle the conductor. The flanking positive peaks result from induction effects as the pair of coils are close to but not straddling the conductor. When either of the coils is directly over the target, the response is zero because the primary field is not well coupled with the target (i.e. it is perpendicular to the edge of the conductor) and little secondary field is created.

A dipping tabular conductor can be specified by the dip and dip direction, depth to top, target width and electrical conductance (conductivity thickness product or st). The effect of varying these parameters is shown in Figure MM3 for the case of a response from a single isolated HLEM conductor. Asymmetry in the positive shoulders indicates the dip direction and the ratio of the positive shoulder responses can be used to estimate the dip (Figure MM3(a)). The strength of the response is largely determined by the depth to the top of the conductor. Increasing the depth to the top of the conductor decreases the amplitude of the response but does not otherwise change the shape of the response (Figure MM3(b)). The effective depth of investigation of the HLEM method for steeply dipping targets is approximately one half the coil spacing. If the conductor is wide, the location of the zero crossovers, normally equal to the coil spacing, will increase. If the width reaches approximately one half the coil spacing, the trough of the response for shallow targets will start to deflect slightly to the positive. If the width of the target approaches that of the coil spacing, the positive return in the trough will be apparent at any depth to target (Figure MM3(c)). As noted above, the electrical conductance controls the ratio of the in-phase to quadrature

response. Weak targets show only a quadrature response. As the target conductance increases the strength of the in-phase component will increase. Very high conductance targets are characterized by strong in-phase responses and weak to very weak quadrature responses (Figure MM3(d)).

Interpretation procedures for HLEM data are dependent upon the model to which the data is to be fitted. In most cases, the characteristic shape of the response will dictate the likely overall geometry of the source and thus the model to which the response should be fitted. Flat lying targets can be directly modeled with computerized calculations of target responses. Dipping tabular body responses on the other hand cannot be numerically modeled and must either be approximated through finite-element models or interpreted using characteristic curves. Characteristic curves for tabular dipping conductors incorporate several key features of the responses described in Figure 3 into simple charts. These responses are derived from model experiments. The ratio of positive shoulders responses and the ratio of in-phase to quadrature peak negative values are the commonly used features of the response. An example of these charts is shown in Figure MM4.

The data contained in this report was interpreted using characteristic curves developed by Ketola and Puranen (1967). The procedure, normally done by hand, has been automated in proprietary software (MMPLOT) developed by Amerok Geosciences Ltd. The characteristics of each response are entered into a computer program which creates a batch plotting file. The data is plotted directly on a CADD diagram with each of the characteristic curves on a different layer. The operator is able to quickly match the data to the curve which best fits the data by selecting different characteristic curves (i.e. by changing layers). Where the data falls between two curves, the conductance and depth to top parameters can be interpolated but the dip cannot be reliably interpolated.

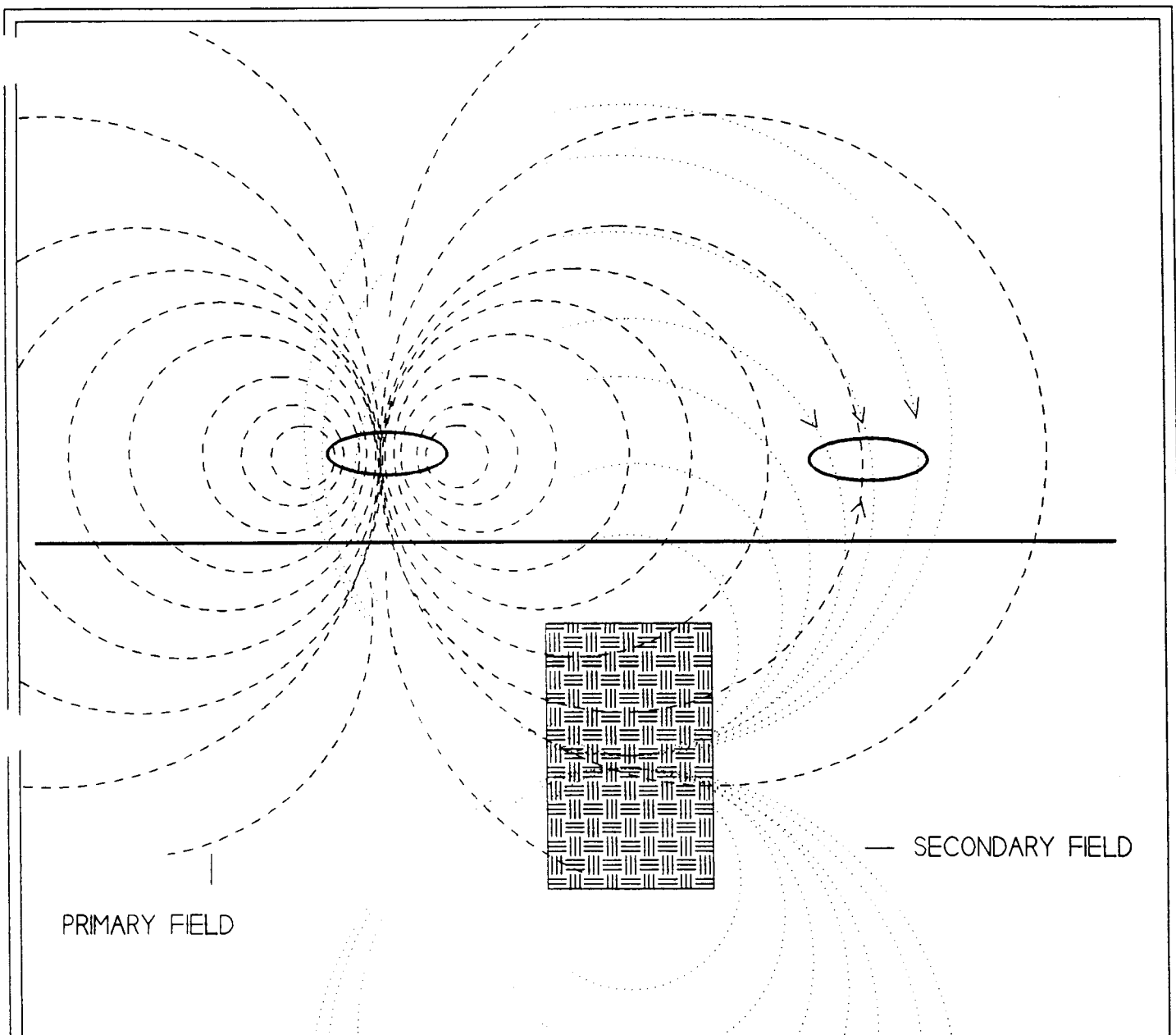
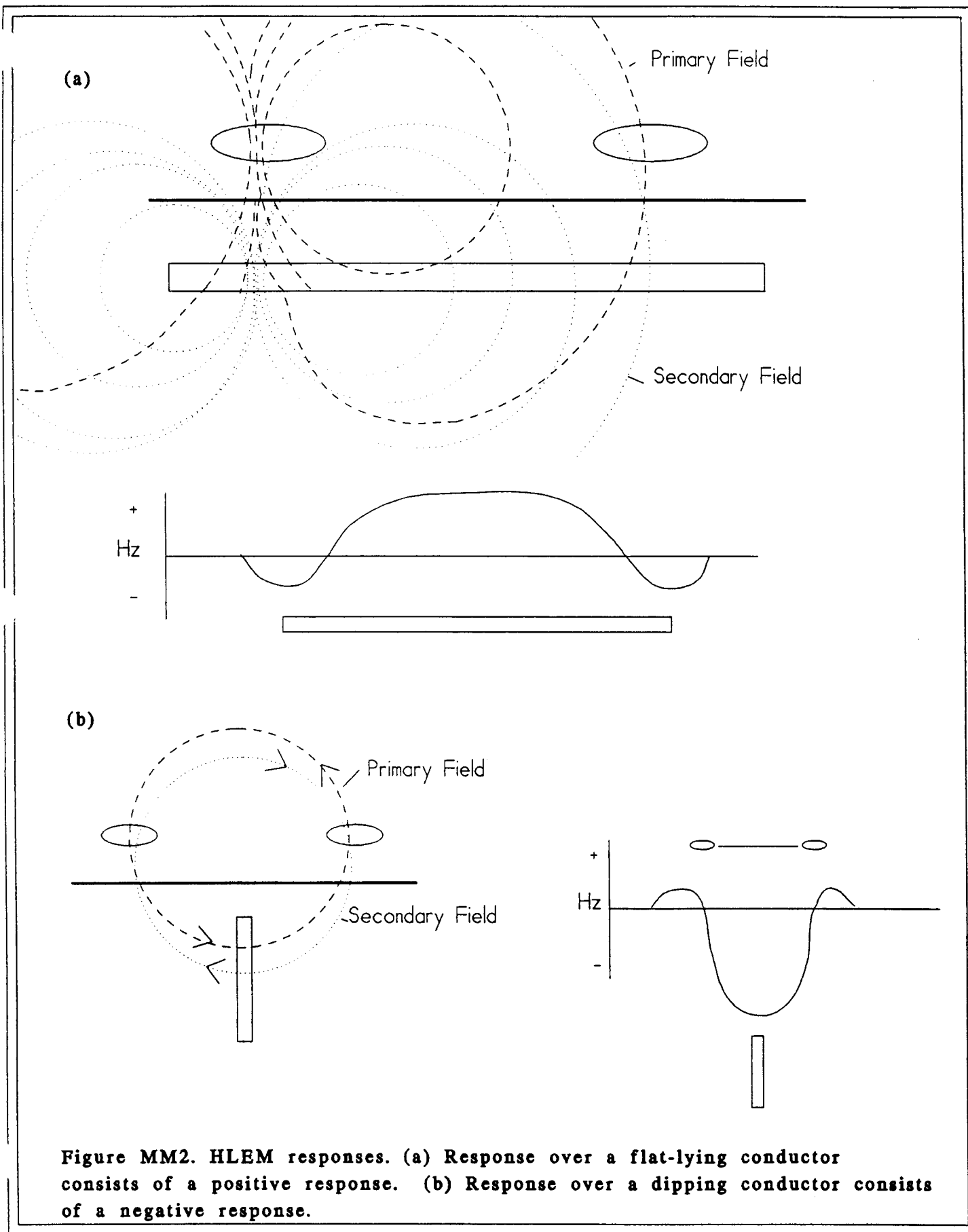
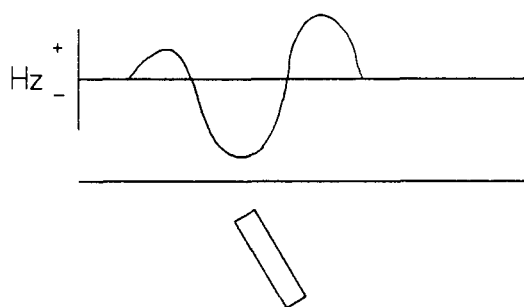


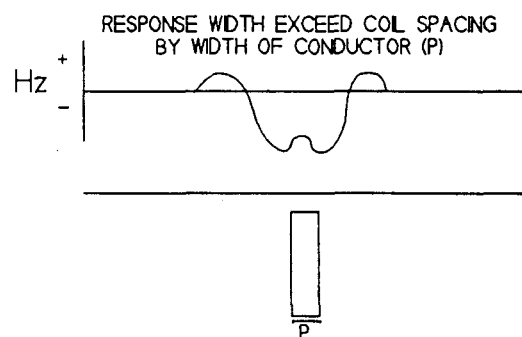
Figure MM1. HLEM source field. The field from the transmitter loop produces an oscillating vertical magnetic dipole. This induces a secondary field in a conductive body in the earth. At the receiver coil, both the primary field and secondary field are received.



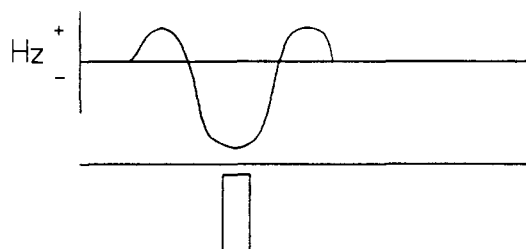
(a)



(b)



(c)



(d)

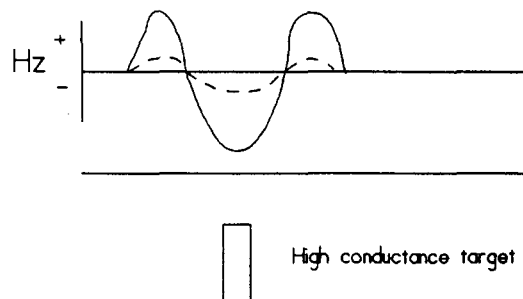
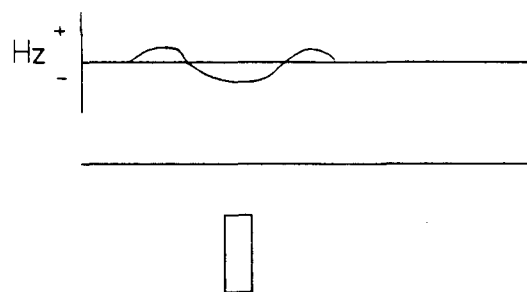
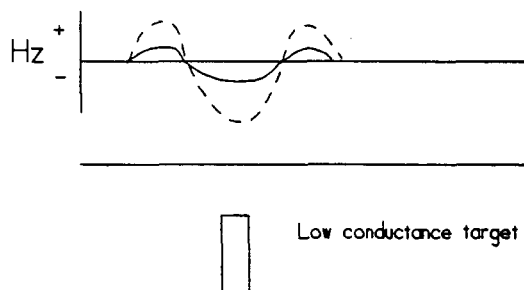


Figure MM3. HLEM response of dipping tabular conductors. (a) Effect of dip on HLEM response. (b) Effect of depth. (c) Effect of conductor width. (d) Effect of conductance.

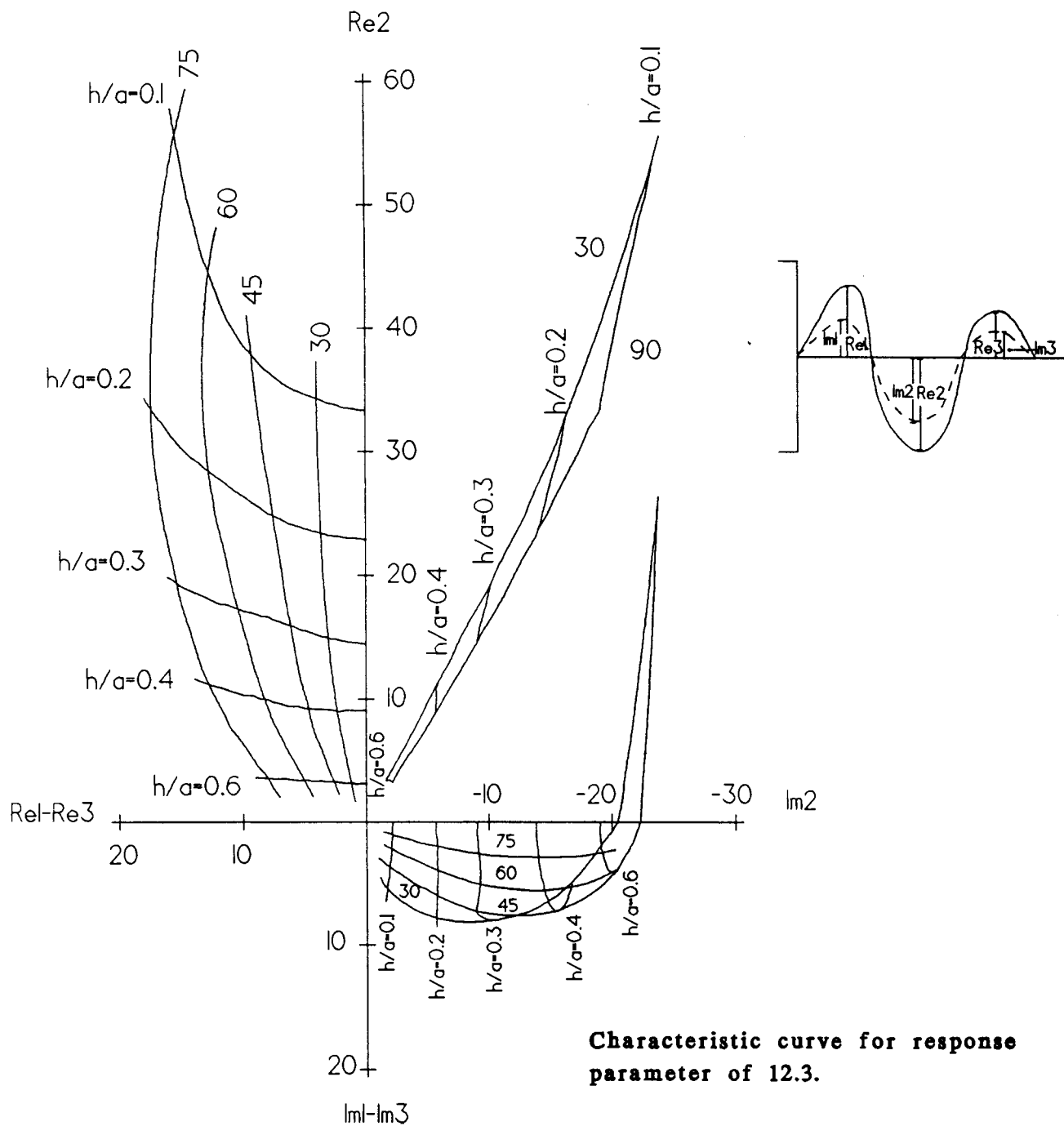


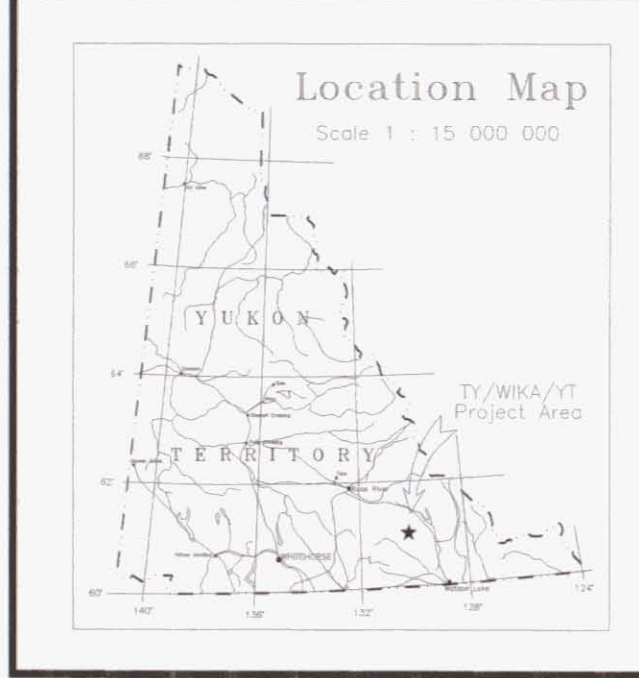
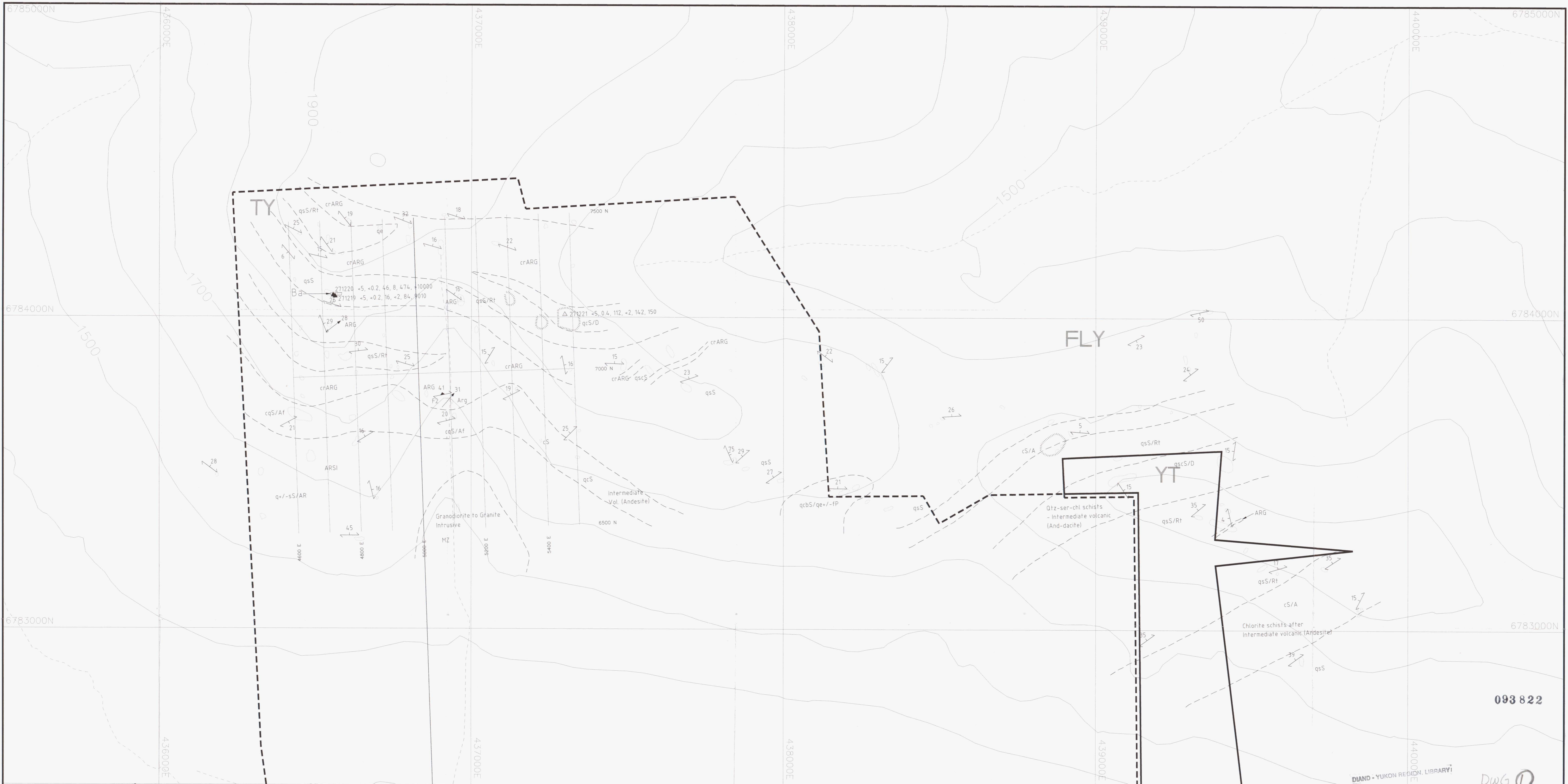
Figure MM4. Characteristic curve for a dipping tabular conductor from Ketola and Puranen (1967). Critical measurements of the response shown in the upper right are extracted and plotted to determine the geometry and conductance of the target.

APPENDIX F
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Sample #	Type	Description
271219	Grab	Massive barite; greyish white, bedded, fine grained.
271220	Grab	Qtz-ser schist; weakly quartz-phyric, moderate limonite alteration, 2-3 % pyrite.
271221	Float	Chlorite-quartz schist; 3-5 % disseminated pyrite, moderate limonite alteration

APPENDIX G
OVERSIZE FIGURES



UTM
GRID
NORTH

(True North is approximately
1° East of Grid North)

Magnetic Declination ~ 30° 18' (96)

WESTMIN Claim Block Outlines
(WIK/A and YT Claims)

WESTMIN / PACIFIC BAY MINERALS
TY Claim Joint Venture Area

Grid Lines – with Soil
Geochemical Coverage

▲ Rock Sample : bedrock, float
: Au(ppb), Ag(ppm), Cu(ppm), Pb(ppm), Zn(ppm), Ba(ppm)

Creeks

Topographic Contours
(100m contour interval)

Intrusive Rocks

UM Ultramafic
DN Dunite
GB Gabbro
DI Diorite
SY Syenite
MZ Monzonite
GD Granodiorite
G Granite

Volcanic Rocks

B Basalt
A Andesite
D Dacite
RD Rhyodacite
R Rhyolite

Sedimentary Rocks

CG Conglomerate
GT Grit
SS Sandstone
AR Arenite
LS Limestone
SH Shale
MS Mudstone
ARG Argillite
J Jasper
Ch Chert

Metamorphic Rocks

PH Phyllite
S Schist
GN Gneiss
QTZ Quartzite

Mineral Prefixes

q quartz
qe quartz-eye
s sericite
c chlorite
m muscovite
b biotite
gr graphite
f feldspar
serp serpentine
cr carbonaceous

Volcanic Modifiers

f flow
t tuff
xt crystal tuff
lt lapilli tuff
dt dust tuff
bx breccia
tbx tuff breccia
amyg amygdaloidal
aph aphyric

Mineralization

po pyrrhotite
py pyrite
cp chalcopyrite
sp sphalerite
gl galena
az azurite
ml malachite
hm hematite
mt magnetite
rh rhodnite
rc rhodochrosite
Ba Barite
Boex Barite exhalite
Qex Quartz exhalite
Mnox Manganese oxide

Colours

gy grey
bk black
gn green
bn brown
bf buff

Volcanic/Intrusive Modifiers

P Porphyry

Symbols

Lithological Contact
 Fault Contact (defined, inferred)
 Shear Zone
 Outcrop
 Talus, Float
 Trench
 Bedding
 Foliation
 Lineation
 Fold Axis
 Joint

WESTMIN RESOURCES LIMITED

Work By	D.F. Gale
Date Drafted	Dec. 11, 1997
Drafted By	J. Klein
Date Revised	
Revised By	

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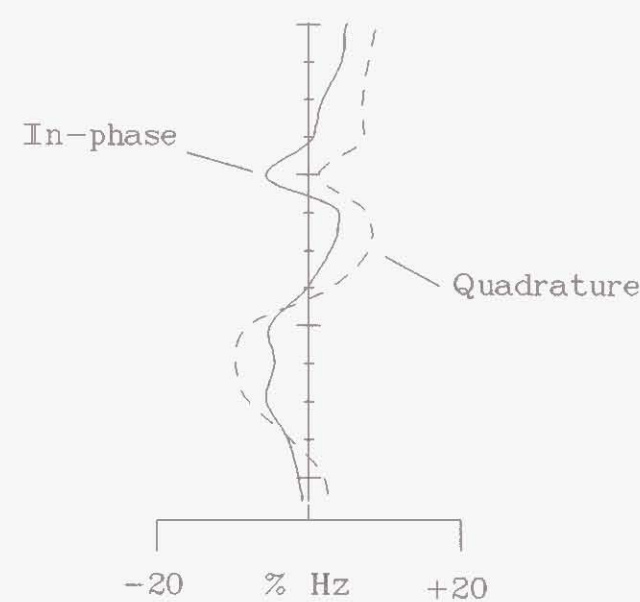
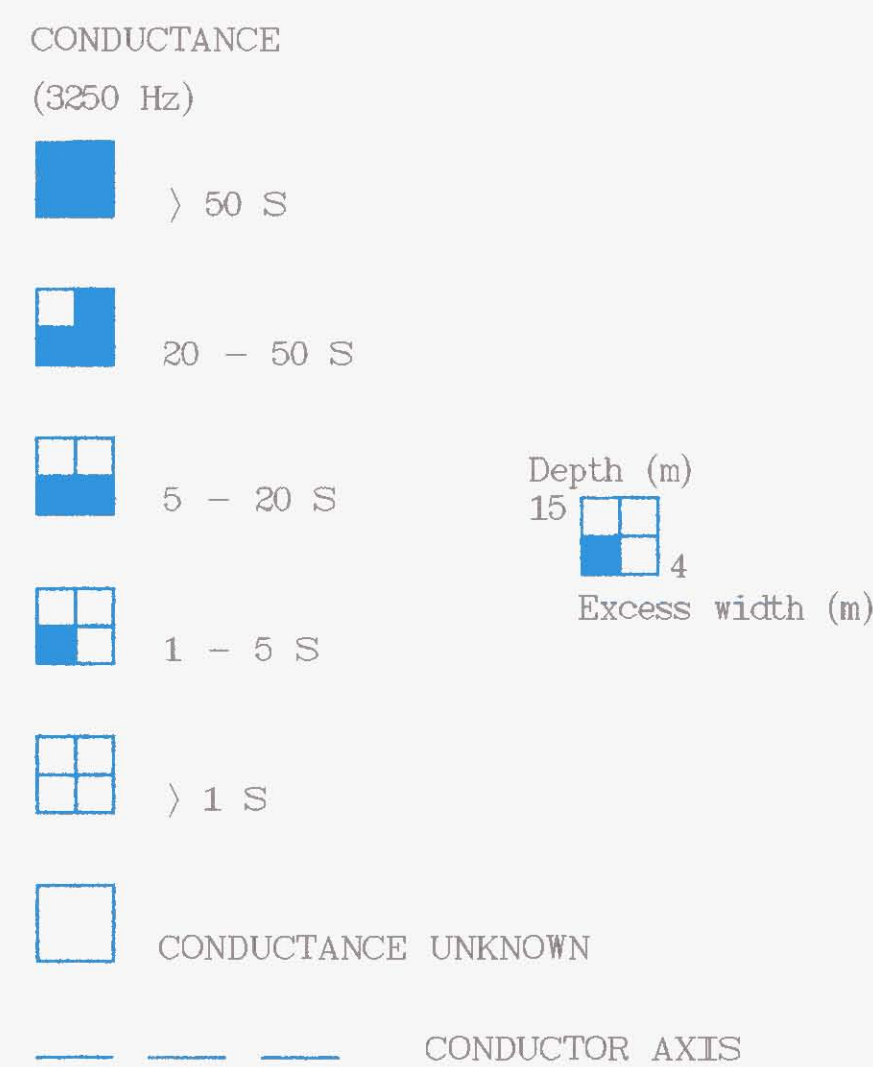
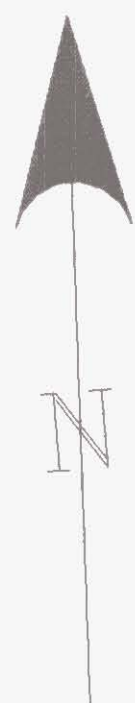
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Figure
6.1

Property Geology Map,
Rock Sample Locations
and Geochemistry
North Grid
NORTHERN TY PROPERTY

093 822

DWG ①



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TY PROPERTY
(NTS 105 G 8)
FIGURE TY-1

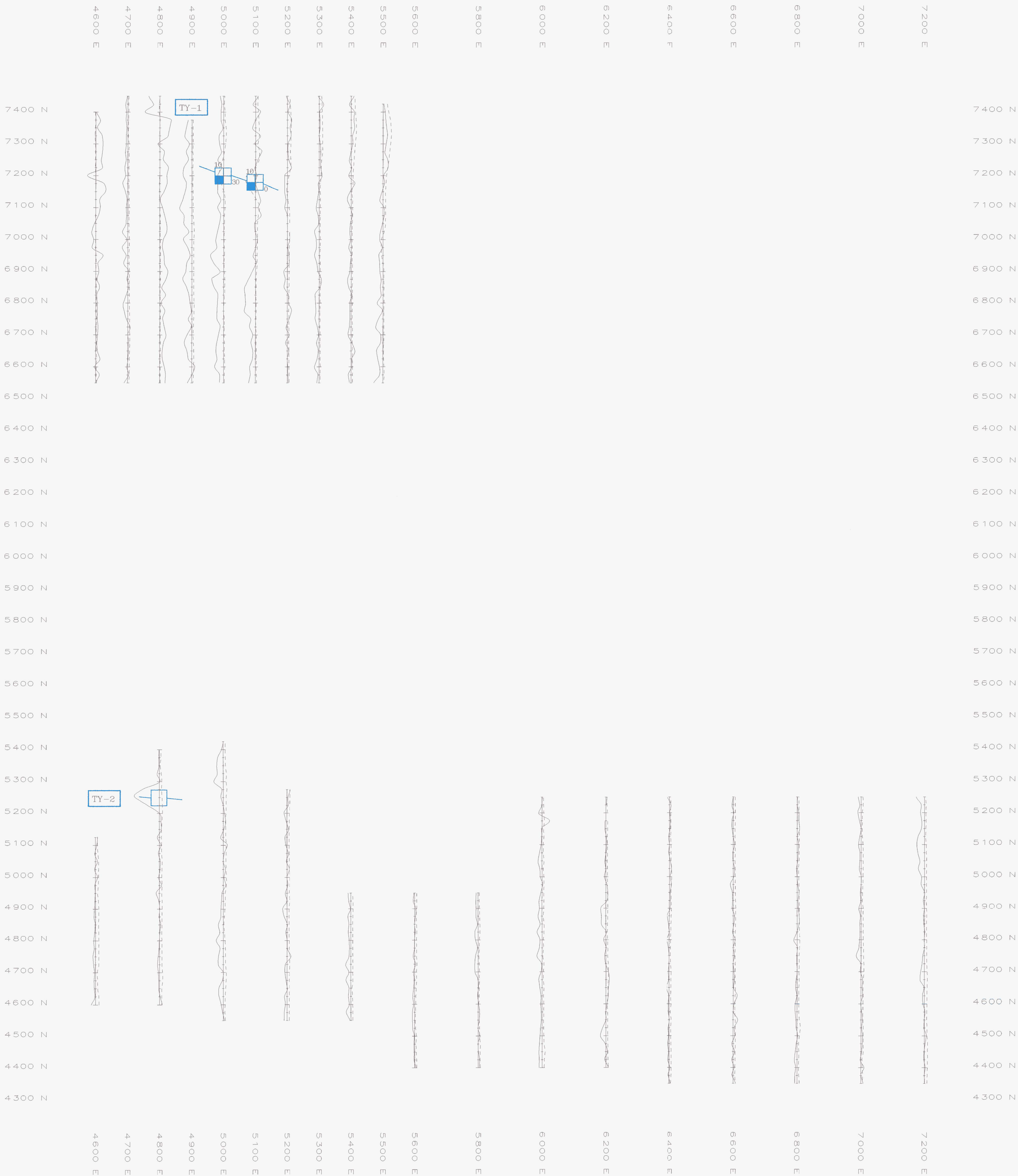
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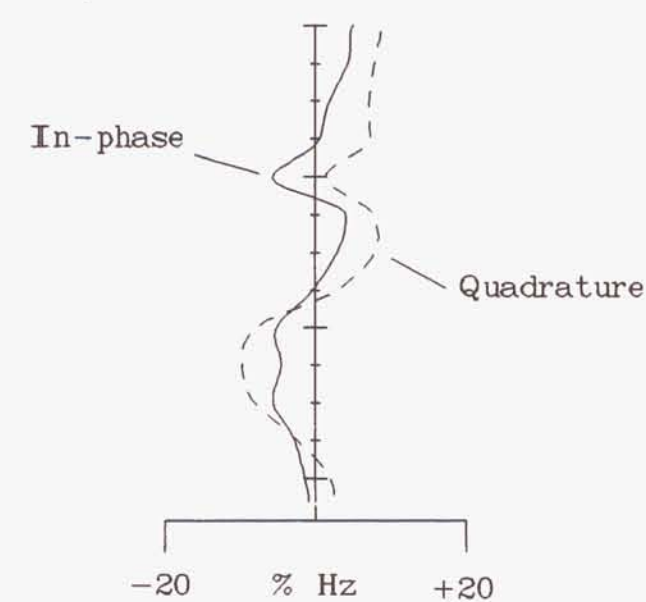
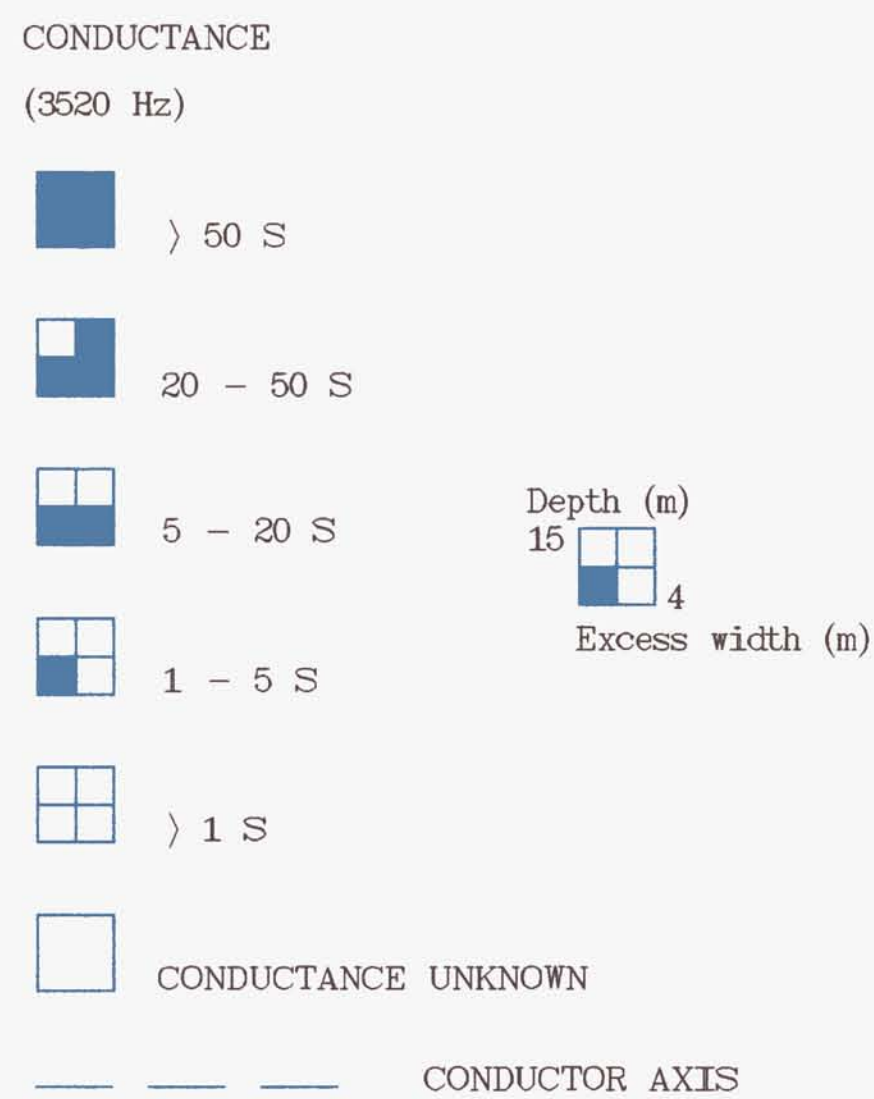
MAXMIN I-10 SURVEY

440 Hz - 100m coils

YUKON REGIONAL LIBRARY

AMEROK GEOSCIENCES LTD.





WESTMIN RESOURCES LIMITED

TY PROPERTY
(NTS 105 G 8)

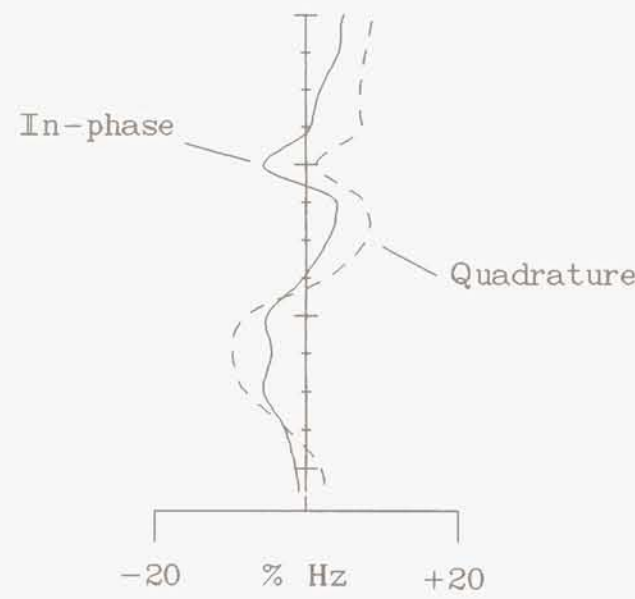
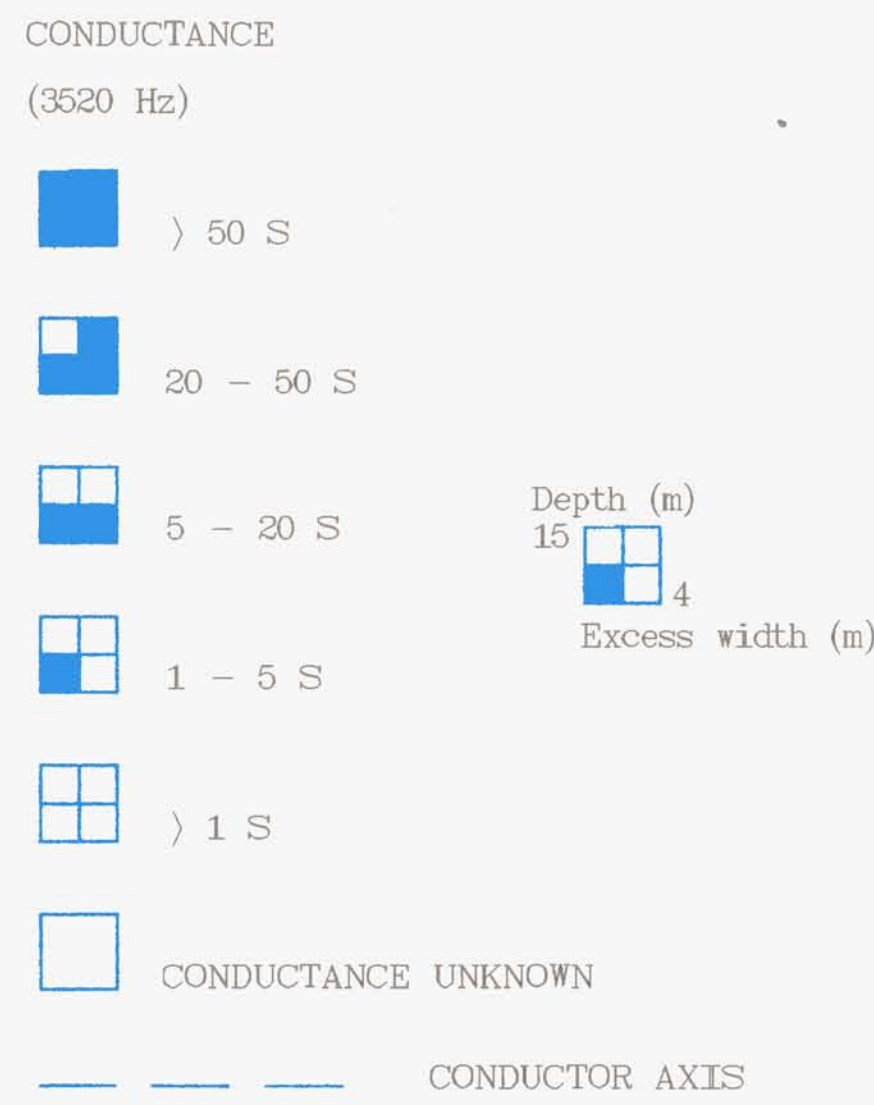
FIGURE TY-2

MAXMIN I-10 SURVEY

880 Hz - 100m coils

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AMEROK GEOSCIENCES LTD. 093 822 3



WESTMIN RESOURCES LIMITED

TY PROPERTY
(NTS 105 G 8)
FIGURE TY-3

093 822

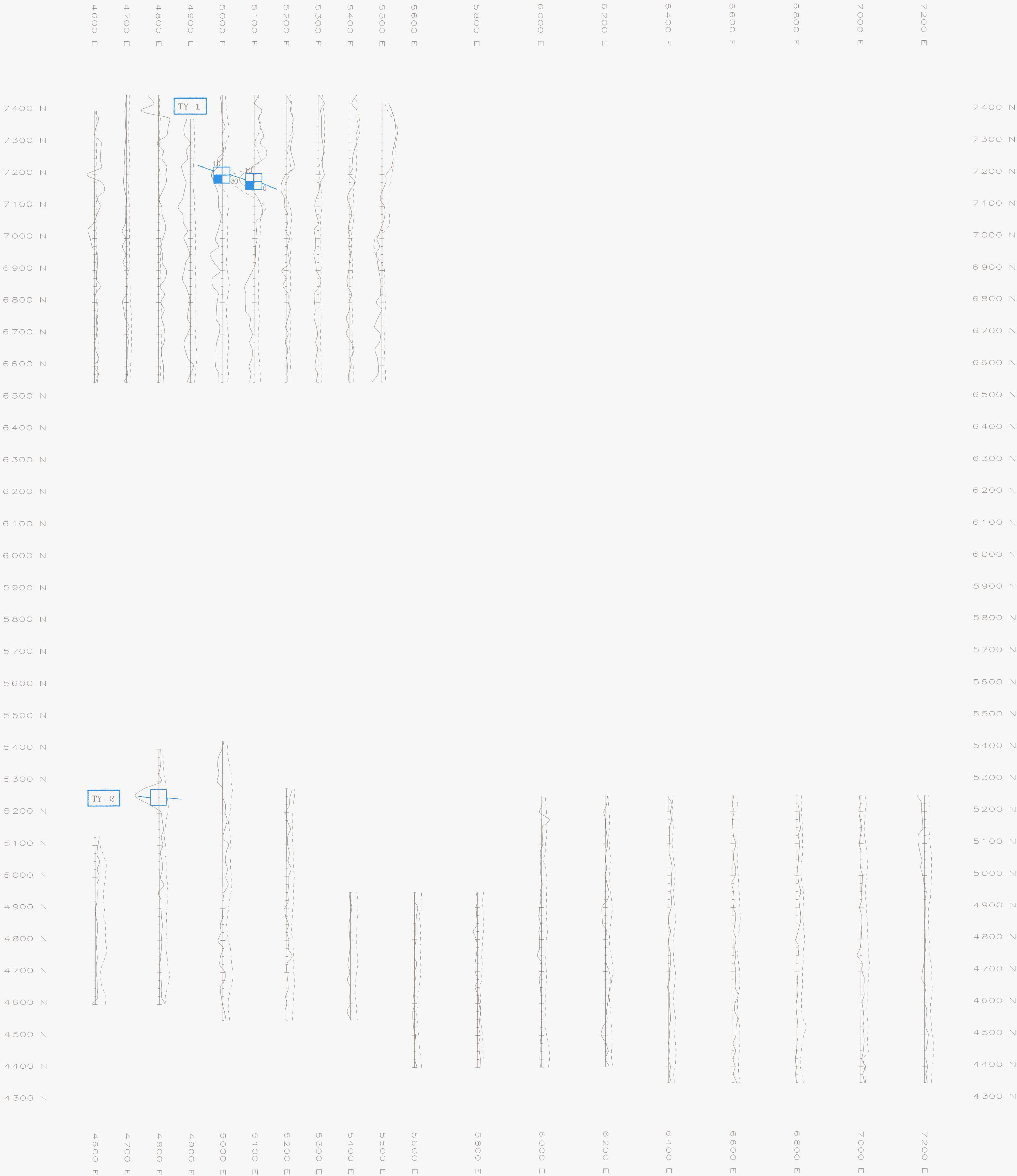
MAXMIN I-10 SURVEY

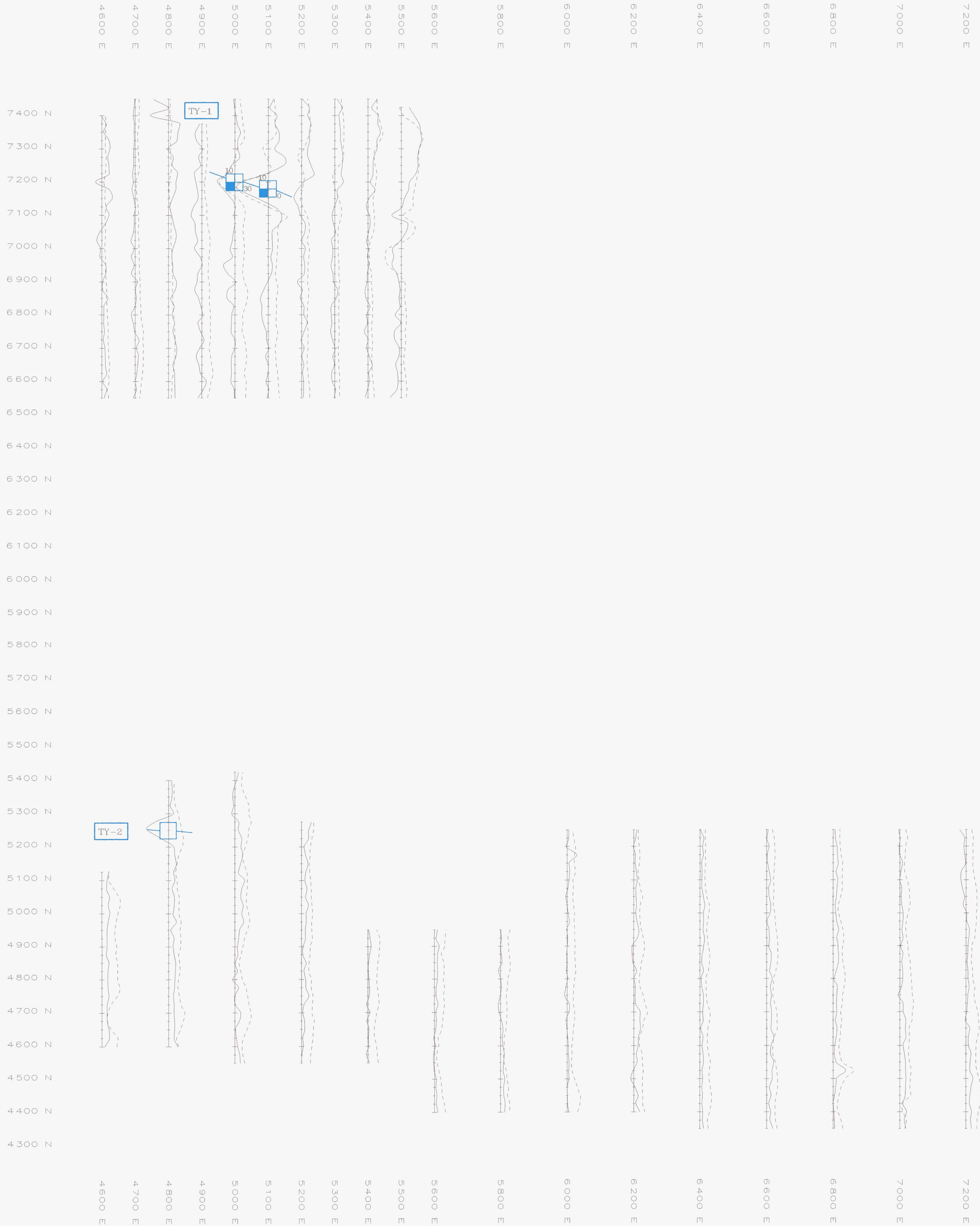
1760 Hz - 100m coils

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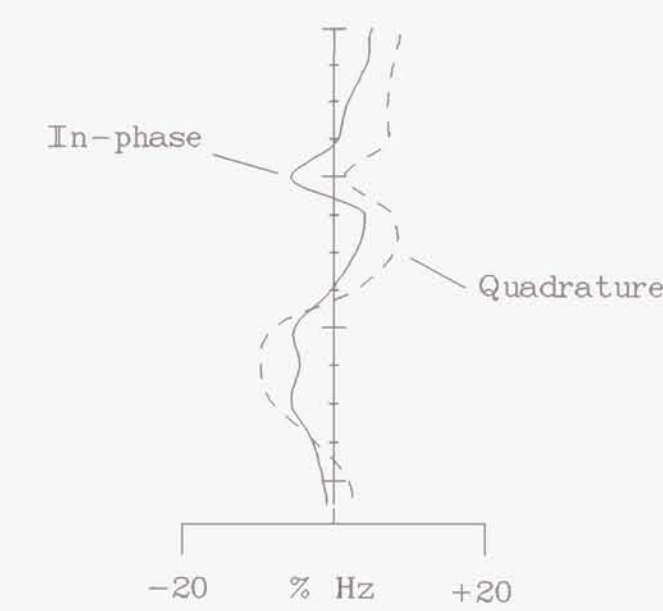
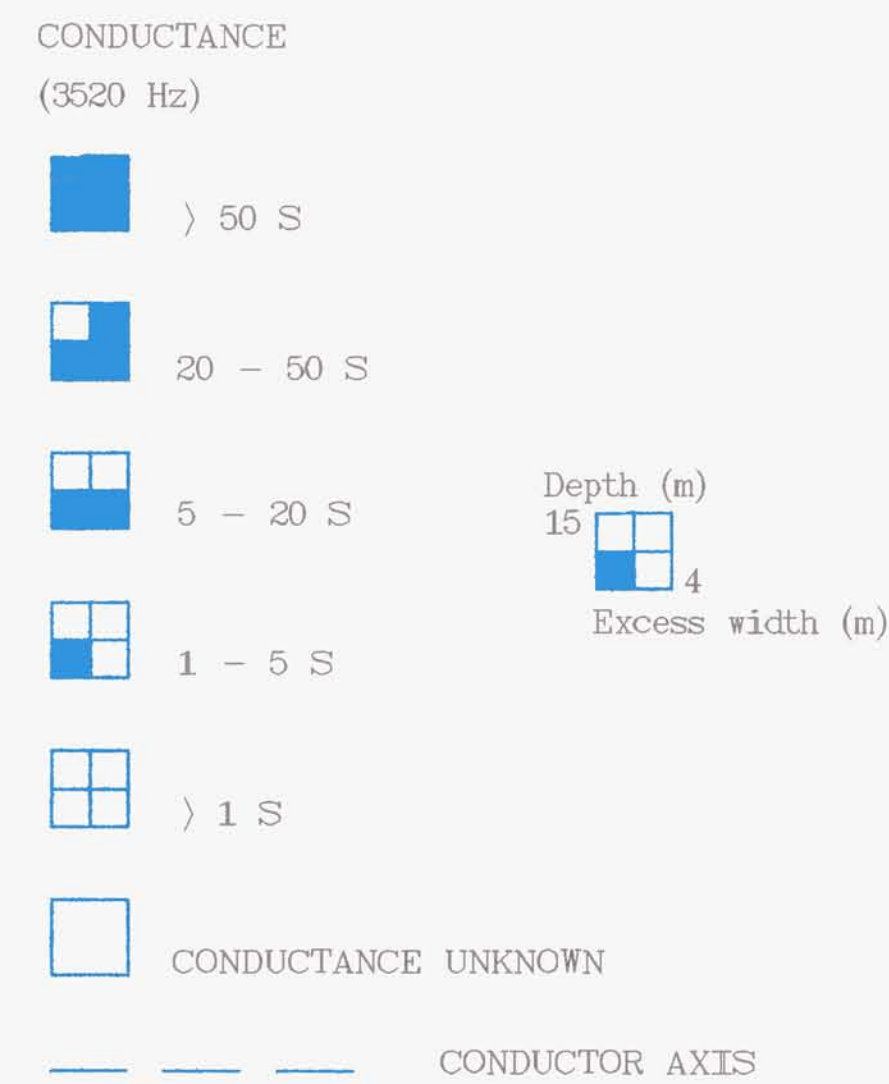
AMEROK GEOSCIENCES LTD.

4





7400 N
7300 N
7200 N
7100 N
7000 N
6900 N
6800 N
6700 N
6600 N
6500 N
6400 N
6300 N
6200 N
6100 N
6000 N
5900 N
5800 N
5700 N
5600 N
5500 N
5400 N
5300 N
5200 N
5100 N
5000 N
4900 N
4800 N
4700 N
4600 N
4500 N
4400 N
4300 N



WESTMIN RESOURCES LIMITED

TY PROPERTY
(NTS 105 G 8) 093 822
FIGURE TY-4

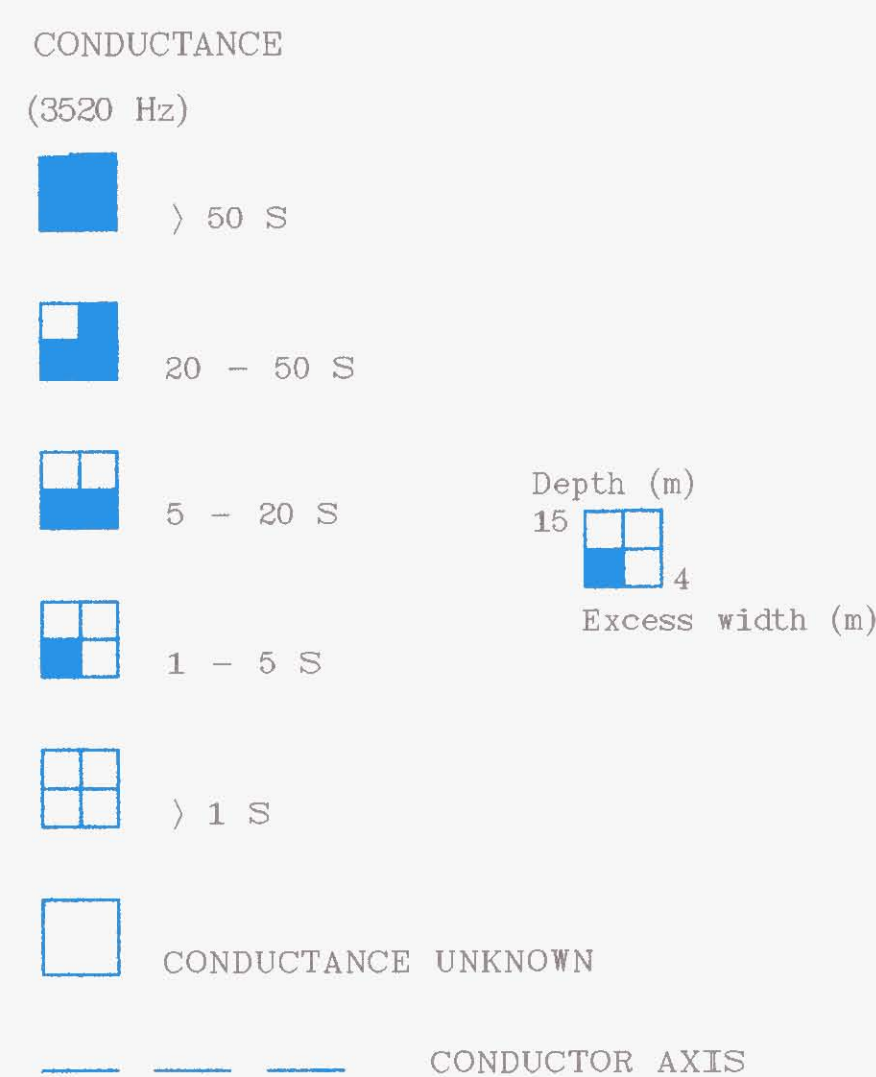
MAXMIN I-10 SURVEY

3520 Hz - 100m coils

DIARY - WESTMIN RESOURCES LTD. 10/1/02

AMEROK GEOSCIENCES LTD.

10/1/02 5



Contour intervals: 20, 100nT



WESTMIN RESOURCES LIMITED

TY PROPERTY .093822
(NTS 105 G 8)
FIGURE TY-5

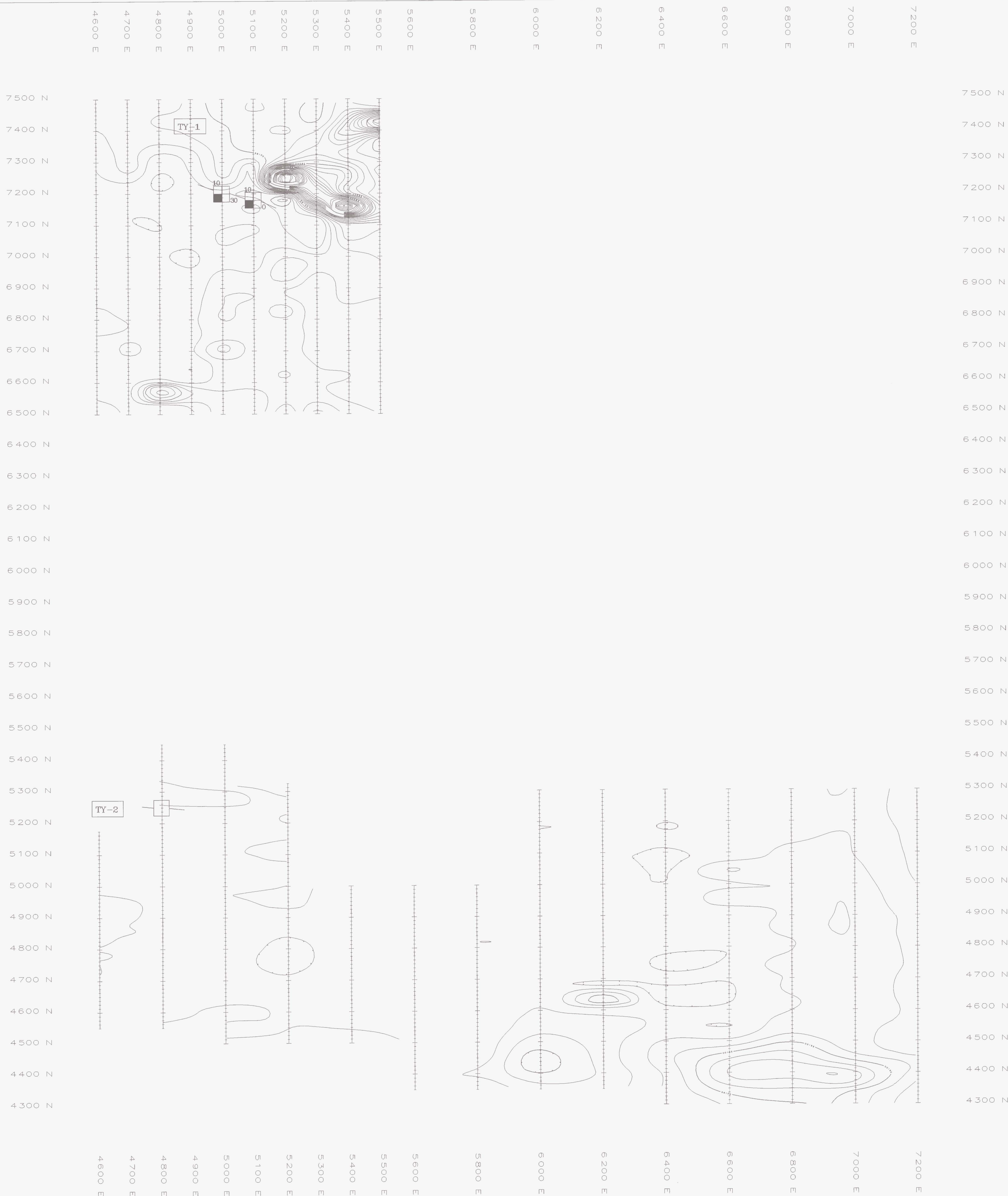
TOTAL MAGNETIC FIELD SURVEY

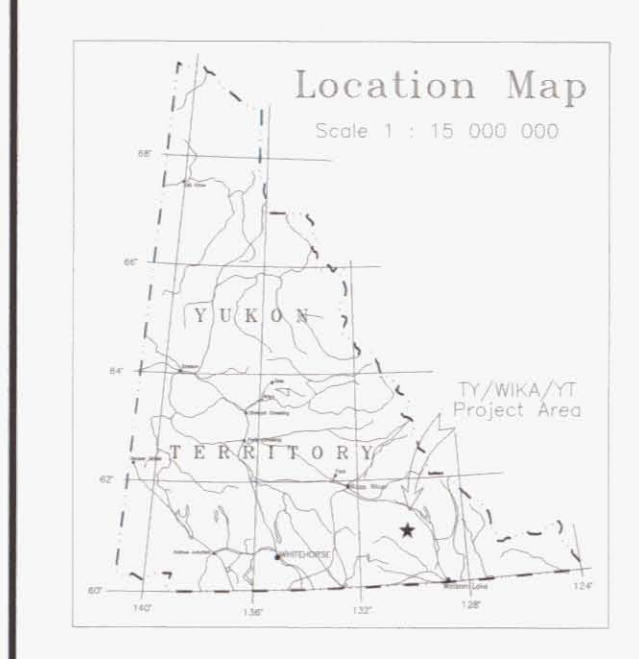
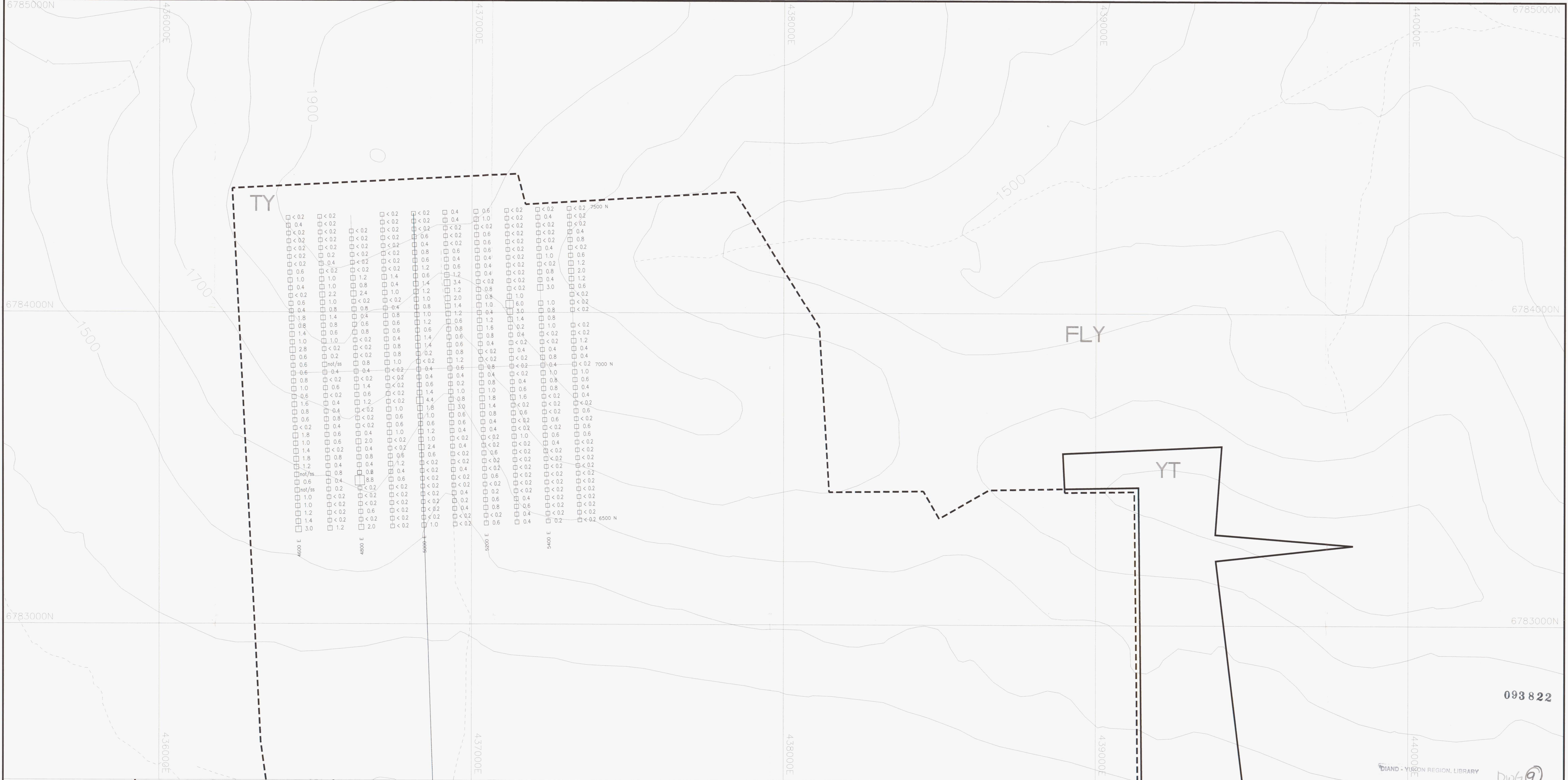
CONTOUR MAP

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AMEROK GEOSCIENCES LTD.

6





UTM
GRID
NORTH

(True North is approximately
1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

WESTMIN Claim Block Outlines
(WIKIA and YT Claims)

WESTMIN / PACIFIC BAY MINERALS
TY Claim Joint Venture Area

Grid Lines - with Soil
Geochemical Coverage

Creeks

Topographic Contours
(100m contour interval)

Ag in Soil (in ppm)

MAX 8.8

MIN <0.2

WESTMIN RESOURCES LIMITED

Work By
D.F. Gale

Date Drafted
Dec. 11, 1997

Drafted By
J. Klein

Date Revised

Revised By

Ag in Soil (ppm)

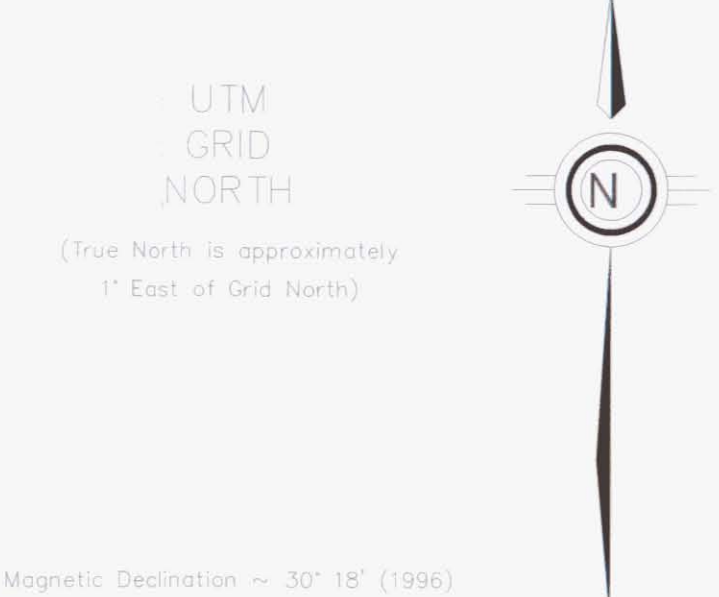
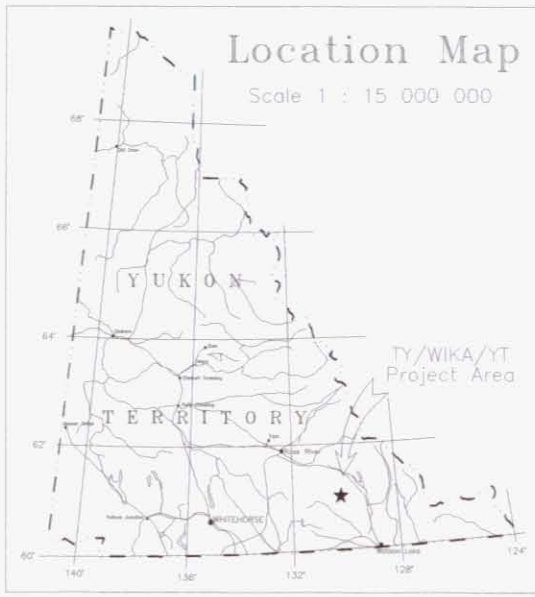
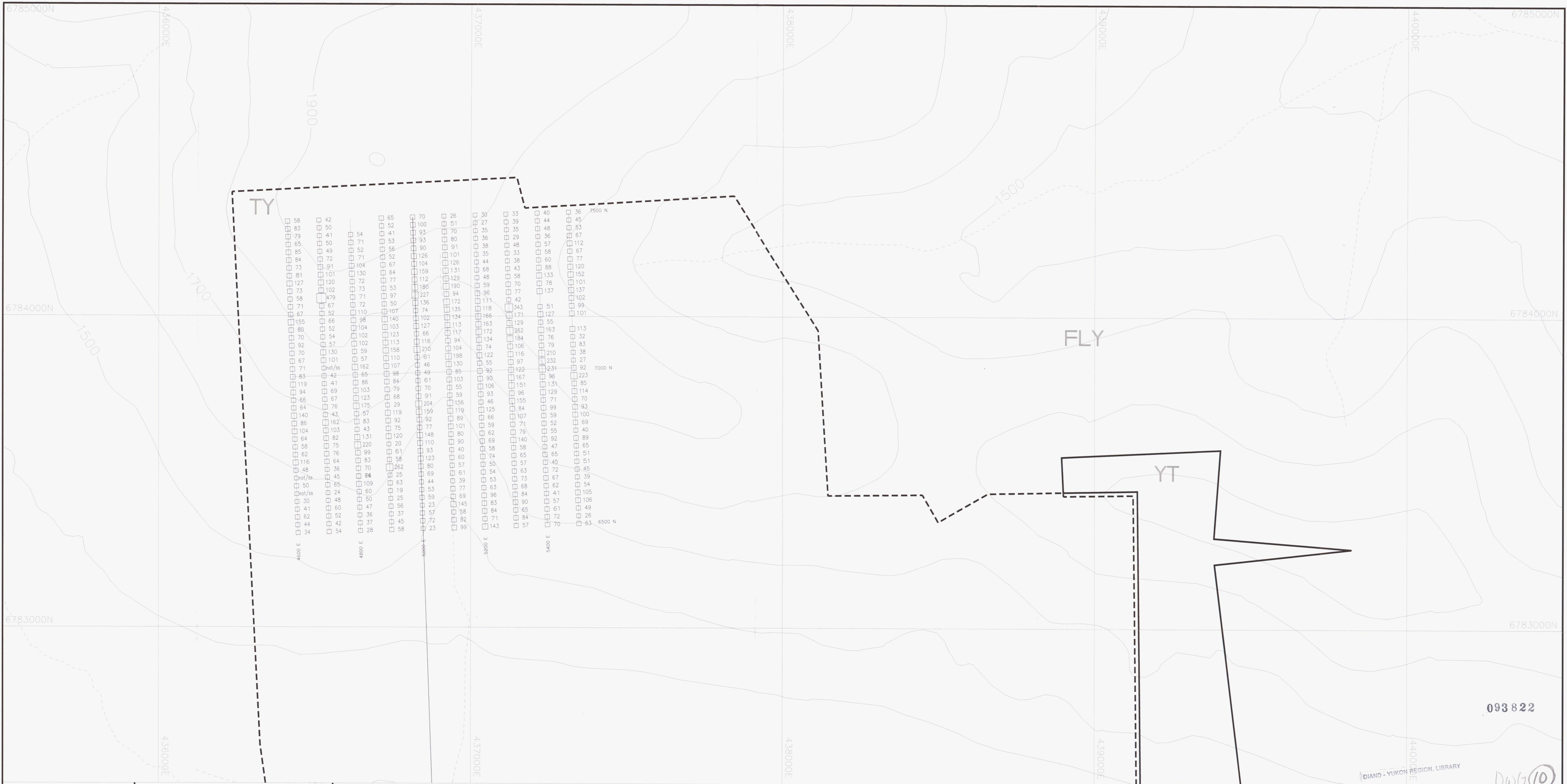
North Grid
NORTHERN TY PROPERTY

N.T.S. Number
105 G/1

File Name
Tyngeol.dwg

SCALE 1 : 5,000

Figure
83

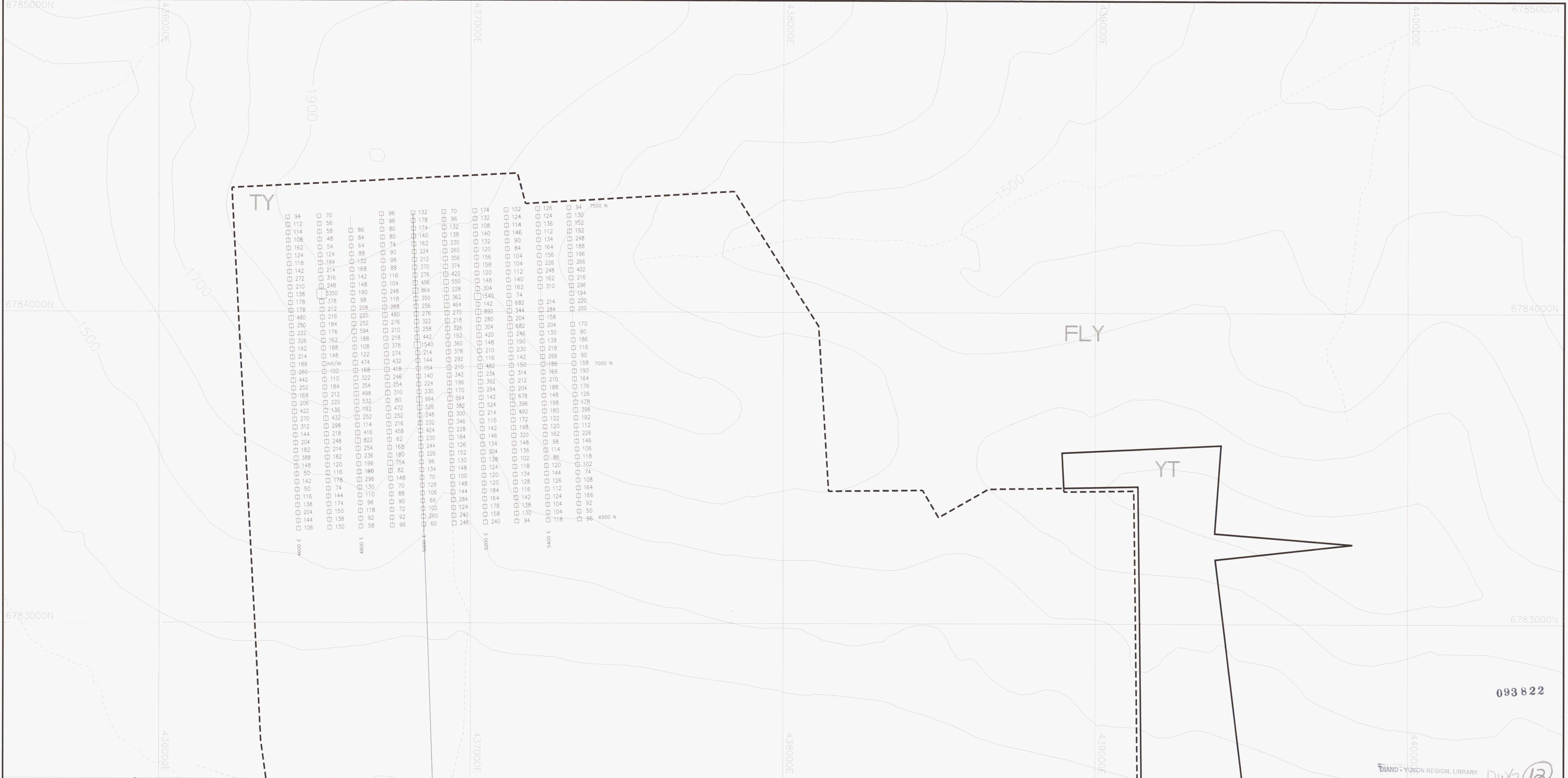


Cu in Soil (in ppm)

MAX □ 479

MIN □ 19

		WESTMIN RESOURCES LIMITED	
Work By		Cu in Soil (ppm) North Grid NORTHERN TY PROPERTY	
D.F. Date			
Date Drafted			
Dec. 11, 1999			
Drafted By			
T. Klein			
Date Revised			
Revised By			
N.T.S. Number		Figure	
105, 6/1		8.4	
File Name		Tyngegeo.dwg	
Scale		1 : 5,000	



Location Map

Scale 1 : 15 000 000

UTM GRID NORTH

(True North is approximately 1° East of Grid North)

Magnetic Declination ~ 30° (1995)

WESTMIN Claim Block Outlines (WIK and YT Claims)

WESTMIN / PACIFIC BAY MINERALS TY Claim Joint Venture Area

Grid Lines — with Soil Geochemical Coverage

Creeks

Topographic Contours (100m contour interval)

Zn in Soil (in ppm)

MAX □ 3350

MIN □ 48

093 822

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Dwg (12)

WESTMIN RESOURCES LIMITED

Work By	D.F. Gale
Date Drafted	Dec. 11, 1997
Drafted By	T. Klein
Date Revised	
Revised By	

N.T.S. Number	105 G/T
File Name	Tynejepi.dwg

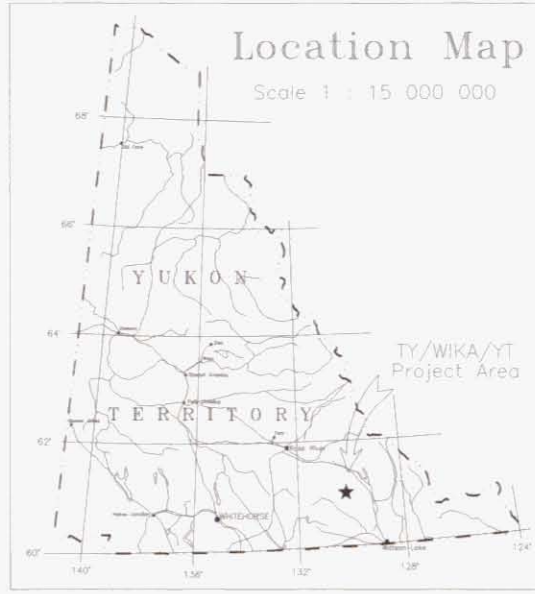
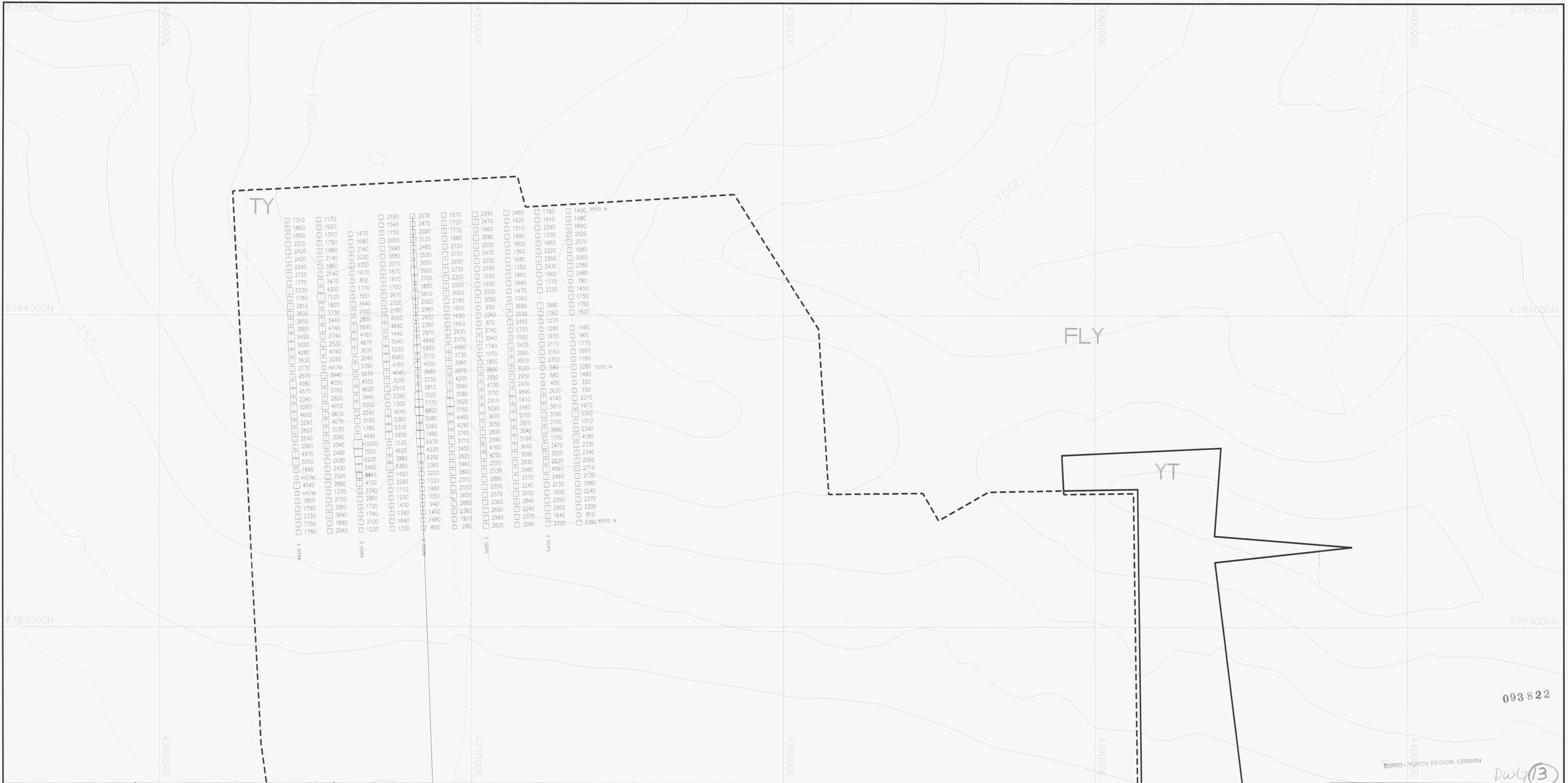
Zn in Soil (ppm)

North Grid

NORTHERN TY PROPERTY

SCALE 1 : 5,000

Figure 8.6



UTM
GRID
NORTH
(True North is approximately
1° East of Grid North)

Magnetic Declination ~ 30° 18' (1996)

WESTMIN Claim Block Outlines
(WIKI and YT Claims)

WESTMIN / PACIFIC BAY MINERALS
TY Claim Joint Venture Area

Grid Lines - with Soil
Geochemical Coverage

Creeks

Topographic Contours
(100m contour interval)

Ba in Soil (in ppm)

MAX ☐ >10000
MIN ☐ 280

WESTMIN		WESTMIN RESOURCES LIMITED	
Work By D.F. Gale		Ba in Soil (ppm) North Grid NORTHERN TY PROPERTY	
Date Drafted Dec 11, 1997			
Drafted By J. Klein			
Date Revised			
Revised By			
File Name Tinegeol.dwg		Figure 8.7	

SCALE 1 : 5,000